Full wwPDB NMR Structure Validation Report

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BMRB ID	:	50957
Title	:	SH3-like tandem domain of human KIN protein
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This is a Full wwPDB NMR Structure Validation Report for a publicly released PDB entry.

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

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

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

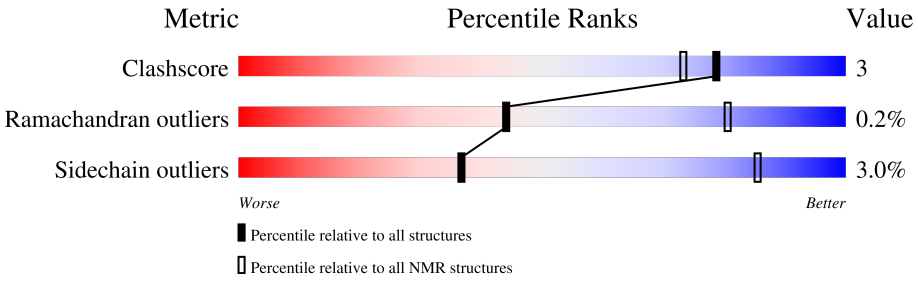
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
wwPDB-RCI	:	v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV	:	Wang et al. (2010)
wwPDB-ShiftChecker	:	v1.2
BMRB Restraints Analysis	:	v1.2
Ideal geometry (proteins)	:	Engh & Huber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

1 Overall quality at a glance (i)

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

The overall completeness of chemical shifts assignment is 94%.

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



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

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

Mol	Chain	Length	Quality of chain
1	A	127	85% 6% 9%

2 Ensemble composition and analysis (i)

This entry contains 10 models. Model 8 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *lowest energy*.

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

Well-defined (core) protein residues			
Well-defined core	**Residue range (total)**	**Backbone RMSD (Å)**	**Medoid model**
1	A:13-A:127 (115)	0.48	8

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

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

The models can be grouped into 2 clusters and 2 single-model clusters were found.

Cluster number	Models
1	1, 2, 3, 5, 7, 9
2	4, 8
Single-model clusters	6; 10

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 2082 atoms, of which 1073 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called DNA/RNA-binding protein KIN17.

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	A	127	2082	643	1073	174	191	1	0

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	GLY	-	expression tag	UNP O60870

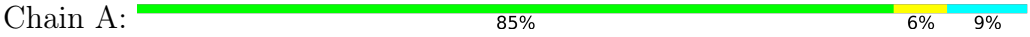
4 Residue-property plots

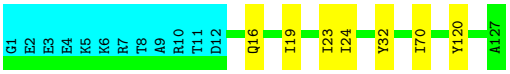
4.1 Average score per residue in the NMR ensemble

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

• Molecule 1: DNA/RNA-binding protein KIN17

Chain A:





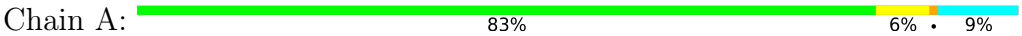
4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

• Molecule 1: DNA/RNA-binding protein KIN17

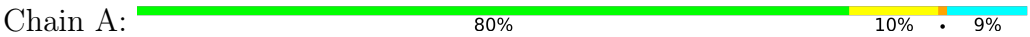
Chain A:

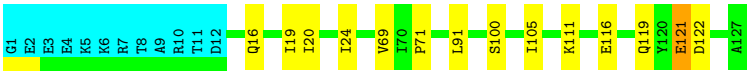


4.2.2 Score per residue for model 2

• Molecule 1: DNA/RNA-binding protein KIN17

Chain A:

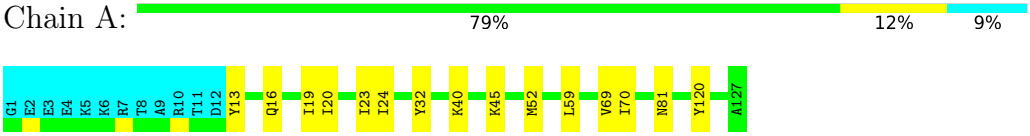




4.2.3 Score per residue for model 3

• Molecule 1: DNA/RNA-binding protein KIN17

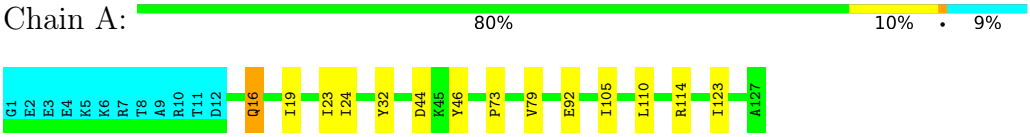
Chain A:



4.2.4 Score per residue for model 4

• Molecule 1: DNA/RNA-binding protein KIN17

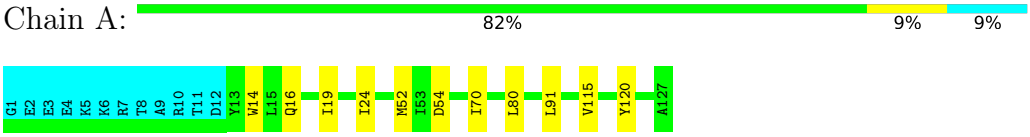
Chain A:



4.2.5 Score per residue for model 5

• Molecule 1: DNA/RNA-binding protein KIN17

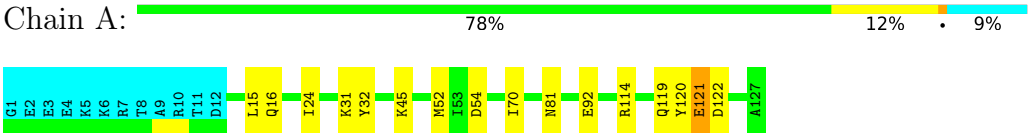
Chain A:



4.2.6 Score per residue for model 6

• Molecule 1: DNA/RNA-binding protein KIN17

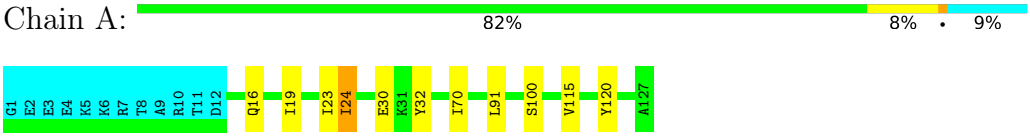
Chain A:



4.2.7 Score per residue for model 7

• Molecule 1: DNA/RNA-binding protein KIN17

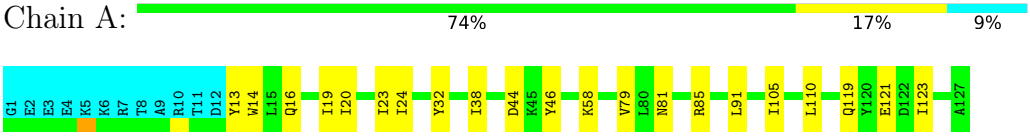
Chain A:



4.2.8 Score per residue for model 8 (medoid)

• Molecule 1: DNA/RNA-binding protein KIN17

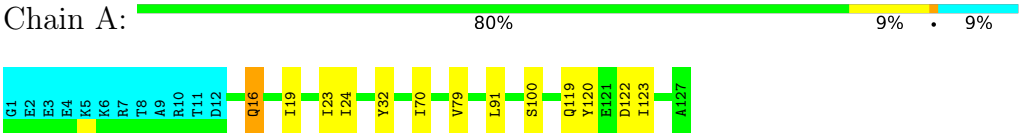
Chain A:



4.2.9 Score per residue for model 9

• Molecule 1: DNA/RNA-binding protein KIN17

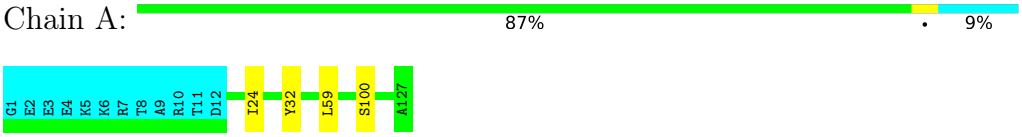
Chain A:



4.2.10 Score per residue for model 10

• Molecule 1: DNA/RNA-binding protein KIN17

Chain A:



5 Refinement protocol and experimental data overview

The models were refined using the following method: *distance geometry*.

Of the 200 calculated structures, 10 were deposited, based on the following criterion: *structures with favorable non-bond energy*.

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

Software name	Classification	Version
ARIA	refinement	2.3.2
CNS	structure calculation	
CNS	refinement	
ARIA	refinement	2.3.2

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

Chemical shift file(s)	working_cs.cif
Number of chemical shift lists	1
Total number of shifts	1668
Number of shifts mapped to atoms	1668
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	94%

6 Model quality

6.1 Standard geometry

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

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	911	975	973	5±2
All	All	9110	9750	9730	53

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 3.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:119:GLN:HB3	1:A:121:GLU:OE2	0.57	1.99	8	2
1:A:119:GLN:HB3	1:A:121:GLU:OE1	0.53	2.03	2	1
1:A:23:ILE:HB	1:A:32:TYR:O	0.52	2.04	4	6
1:A:119:GLN:HB2	1:A:122:ASP:OD2	0.52	2.05	6	2
1:A:16:GLN:O	1:A:19:ILE:HG12	0.51	2.05	3	7
1:A:102:THR:HG23	1:A:116:GLU:HG2	0.50	1.82	1	1
1:A:13:TYR:OH	1:A:85:ARG:HD2	0.50	2.06	8	1
1:A:119:GLN:HB2	1:A:122:ASP:OD1	0.49	2.07	2	1
1:A:70:ILE:HG13	1:A:120:TYR:CD2	0.49	2.43	9	4
1:A:31:LYS:HE2	1:A:32:TYR:CE1	0.48	2.42	6	1
1:A:70:ILE:HG13	1:A:120:TYR:CD1	0.48	2.44	6	2
1:A:52:MET:SD	1:A:54:ASP:HB3	0.47	2.49	5	2
1:A:32:TYR:CD1	1:A:59:LEU:HD11	0.46	2.46	3	2
1:A:24:ILE:H	1:A:24:ILE:HD13	0.46	1.70	1	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:105:ILE:HB	1:A:110:LEU:O	0.45	2.11	8	2
1:A:40:LYS:HE2	1:A:40:LYS:HA	0.44	1.89	3	1
1:A:13:TYR:CB	1:A:45:LYS:HB3	0.44	2.43	3	1
1:A:44:ASP:C	1:A:46:TYR:H	0.43	2.20	4	2
1:A:79:VAL:HA	1:A:123:ILE:HG22	0.43	1.90	4	3
1:A:20:ILE:O	1:A:69:VAL:HG22	0.43	2.14	3	2
1:A:73:PRO:HB3	1:A:92:GLU:O	0.42	2.15	4	1
1:A:105:ILE:O	1:A:111:LYS:HA	0.41	2.14	2	1
1:A:92:GLU:OE2	1:A:114:ARG:HD2	0.41	2.15	6	1
1:A:20:ILE:CD1	1:A:38:ILE:HG12	0.41	2.45	8	1
1:A:32:TYR:CD1	1:A:52:MET:SD	0.41	3.14	3	1
1:A:15:LEU:HB2	1:A:45:LYS:O	0.41	2.16	6	1
1:A:92:GLU:OE1	1:A:114:ARG:HD2	0.40	2.15	4	1
1:A:14:TRP:O	1:A:80:LEU:HB3	0.40	2.16	5	1

6.3 Torsion angles (i)

6.3.1 Protein backbone (i)

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	114/127 (90%)	108±2 (95±2%)	6±2 (5±1%)	0±0 (0±0%)	44	80
All	All	1140/1270 (90%)	1078 (95%)	60 (5%)	2 (0%)	44	80

All 2 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	71	PRO	1
1	A	14	TRP	1

6.3.2 Protein sidechains (i)

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

was analysed and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	100/110 (91%)	97±1 (97±1%)	3±1 (3±1%)	37 85
All	All	1000/1100 (91%)	970 (97%)	30 (3%)	37 85

All 8 unique residues with a non-rotameric sidechain are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	24	ILE	10
1	A	91	LEU	5
1	A	16	GLN	4
1	A	100	SER	4
1	A	115	VAL	3
1	A	121	GLU	2
1	A	30	GLU	1
1	A	58	LYS	1

6.3.3 RNA (i)

There are no RNA molecules in this entry.

6.4 Non-standard residues in protein, DNA, RNA chains (i)

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

6.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

6.6 Ligand geometry (i)

There are no ligands in this entry.

6.7 Other polymers (i)

There are no such molecules in this entry.

6.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

7 Chemical shift validation

The completeness of assignment taking into account all chemical shift lists is 94% for the well-defined parts and 93% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chemical_shifts_1*

7.1.1 Bookkeeping

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

Total number of shifts	1668
Number of shifts mapped to atoms	1668
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	1

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction ± precision, *ppm*	Suggested action
$^{13}C_{\alpha}$	126	-0.06 ± 0.15	None needed (< 0.5 ppm)
$^{13}C_{\beta}$	116	-0.04 ± 0.16	None needed (< 0.5 ppm)
$^{13}C'$	120	0.13 ± 0.19	None needed (< 0.5 ppm)
^{15}N	120	1.43 ± 0.33	Should be applied

7.1.3 Completeness of resonance assignments

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 94%, i.e. 1536 atoms were assigned a chemical shift out of a possible 1636. 0 out of 19 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	569/577 (99%)	235/236 (100%)	224/230 (97%)	110/111 (99%)
Sidechain	897/976 (92%)	610/635 (96%)	281/307 (92%)	6/34 (18%)

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	Total	^{1}H	^{13}C	^{15}N
Aromatic	70/83 (84%)	35/39 (90%)	34/39 (87%)	1/5 (20%)
Overall	1536/1636 (94%)	880/910 (97%)	539/576 (94%)	117/150 (78%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 93%, i.e. 1668 atoms were assigned a chemical shift out of a possible 1800. 0 out of 19 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	622/638 (97%)	256/261 (98%)	246/254 (97%)	120/123 (98%)
Sidechain	976/1079 (90%)	663/698 (95%)	307/339 (91%)	6/42 (14%)
Aromatic	70/83 (84%)	35/39 (90%)	34/39 (87%)	1/5 (20%)
Overall	1668/1800 (93%)	954/998 (96%)	587/632 (93%)	127/170 (75%)

7.1.4 Statistically unusual chemical shifts (i)

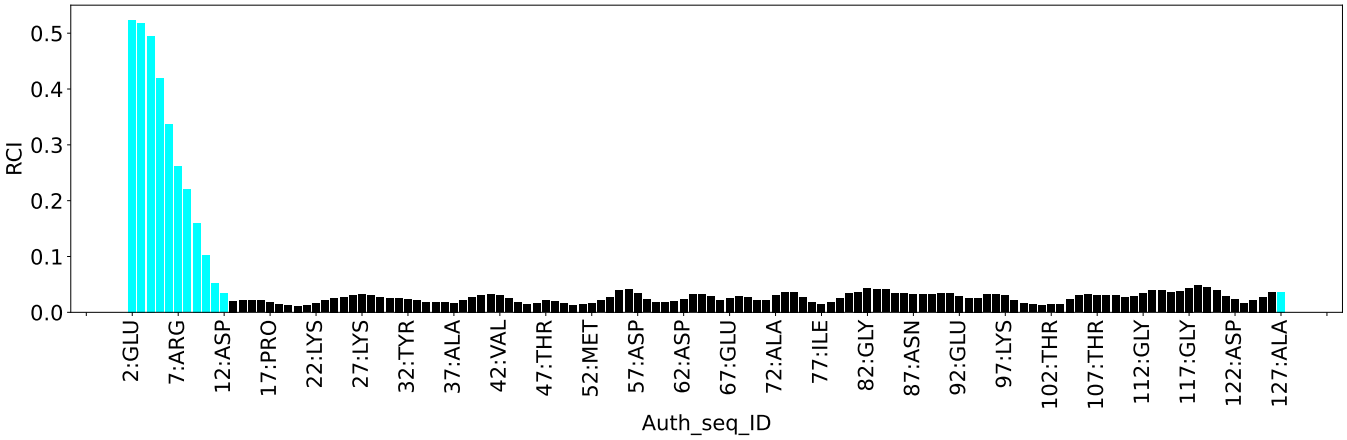
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, *ppm*	Expected range, *ppm*	Z-score
1	A	45	LYS	HB3	0.34	0.46 – 3.04	-5.5

7.1.5 Random Coil Index (RCI) plots (i)

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

Random coil index (RCI) for chain A:


RCI
0.0
0.1
0.2
0.3
0.4
0.5
2:GLU
7:ARG
12:ASP
17:PRO
22:LYS
27:LYS
32:TYR
37:ALA
42:VAL
47:THR
52:MET
57:ASP
62:ASP
67:GLU
72:ALA
77:ILE
82:GLY
87:ASN
92:GLU
97:LYS
102:THR
107:THR
112:GLY
117:GLY
122:ASP
127:ALA
Auth_seq_ID

8 NMR restraints analysis

8.1 Conformationally restricting restraints

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

Description	Value
Total distance restraints	5751
Intra-residue (|i-j|=0)	2161
Sequential (|i-j|=1)	1169
Medium range (|i-j|>1 and |i-j|<5)	595
Long range (|i-j|≥5)	1826
Inter-chain	0
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	0
Number of restraints per residue	45.3
Number of long range restraints per residue[1]	14.4

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

8.2 Residual restraint violations

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

8.2.1 Average number of distance violations per model

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

Bins (Å)	Average number of violations per model	Max (Å)
0.1-0.2 (Small)	146.5	0.2
0.2-0.5 (Medium)	257.8	0.5
>0.5 (Large)	203.5	3.7

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

Dihedral-angle violations less than 1° are not included in the calculation.There are no dihedral-angle violations

9 Distance violation analysis (i)

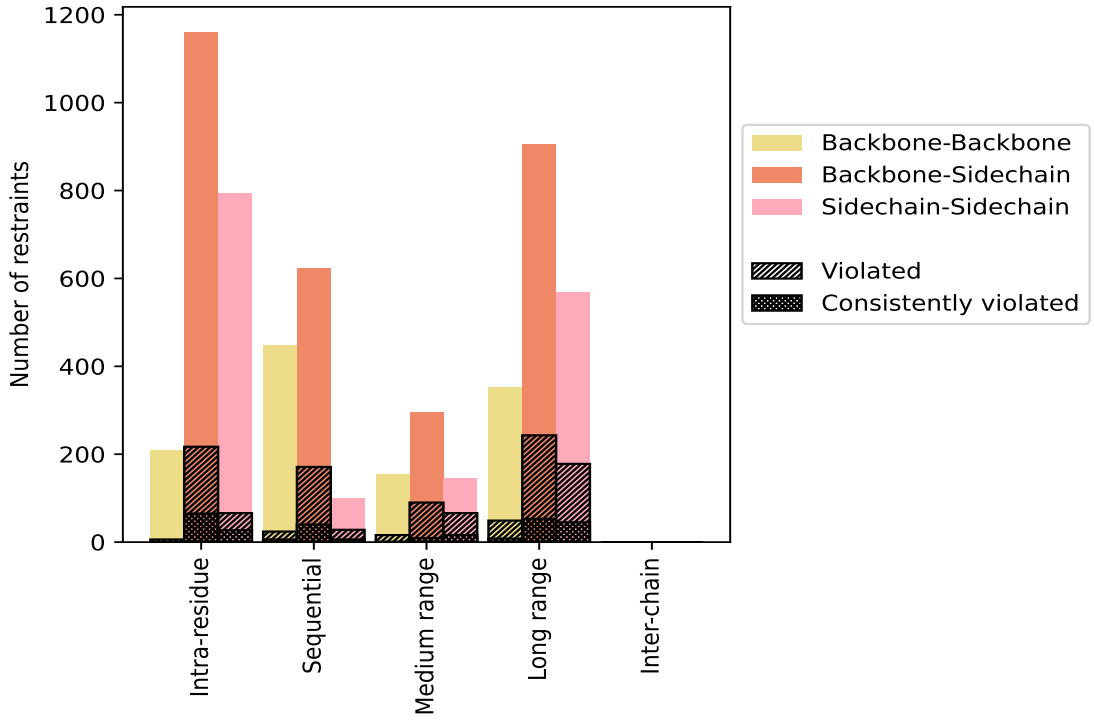
9.1 Summary of distance violations (i)

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

Restraints type	Count	%[1]	Violated[3]			Consistently Violated[4]		
			Count	%[2]	%[1]	Count	%[2]	%[1]
Intra-residue (|i-j|=0)	2161	37.6	289	13.4	5.0	93	4.3	1.6
Backbone-Backbone	208	3.6	6	2.9	0.1	1	0.5	0.0
Backbone-Sidechain	1160	20.2	217	18.7	3.8	65	5.6	1.1
Sidechain-Sidechain	793	13.8	66	8.3	1.1	27	3.4	0.5
Sequential (|i-j|=1)	1169	20.3	223	19.1	3.9	52	4.4	0.9
Backbone-Backbone	447	7.8	24	5.4	0.4	6	1.3	0.1
Backbone-Sidechain	622	10.8	171	27.5	3.0	40	6.4	0.7
Sidechain-Sidechain	100	1.7	28	28.0	0.5	6	6.0	0.1
Medium range (|i-j|>1 & |i-j|<5)	595	10.3	172	28.9	3.0	26	4.4	0.5
Backbone-Backbone	154	2.7	16	10.4	0.3	1	0.6	0.0
Backbone-Sidechain	295	5.1	90	30.5	1.6	9	3.1	0.2
Sidechain-Sidechain	146	2.5	66	45.2	1.1	16	11.0	0.3
Long range (|i-j|≥5)	1826	31.8	470	25.7	8.2	106	5.8	1.8
Backbone-Backbone	351	6.1	49	14.0	0.9	8	2.3	0.1
Backbone-Sidechain	906	15.8	243	26.8	4.2	53	5.8	0.9
Sidechain-Sidechain	569	9.9	178	31.3	3.1	45	7.9	0.8
Inter-chain	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Hydrogen bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	5751	100.0	1154	20.1	20.1	277	4.8	4.8
Backbone-Backbone	1160	20.2	95	8.2	1.7	16	1.4	0.3
Backbone-Sidechain	2983	51.9	721	24.2	12.5	167	5.6	2.9
Sidechain-Sidechain	1608	28.0	338	21.0	5.9	94	5.8	1.6

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

9.1.1 Bar chart : Distribution of distance restraints and violations



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

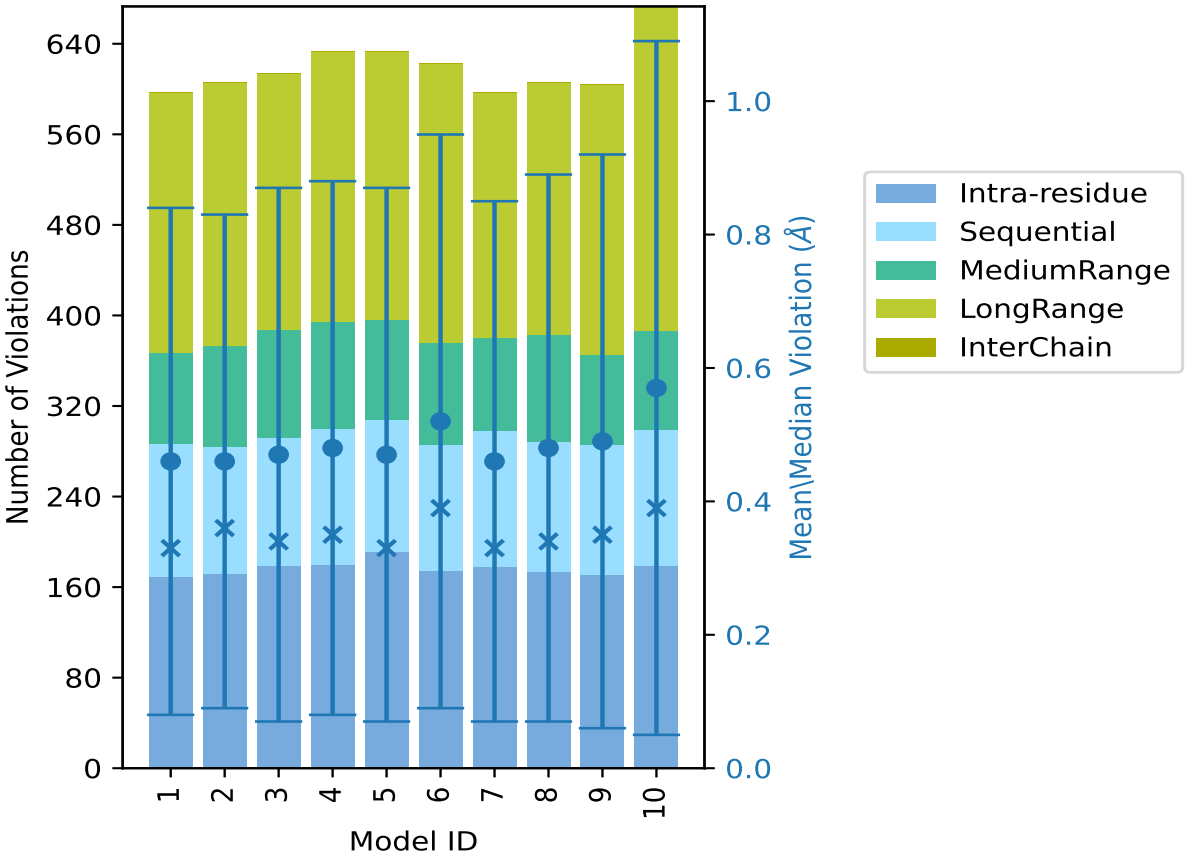
9.2 Distance violation statistics for each model

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

Model ID	Number of violations						Mean (Å)	Max (Å)	SD[6] (Å)	Median (Å)
	IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total				
1	169	118	80	230	0	597	0.46	2.43	0.38	0.33
2	172	112	89	233	0	606	0.46	2.83	0.37	0.36
3	179	113	95	227	0	614	0.47	2.88	0.4	0.34
4	180	120	94	239	0	633	0.48	2.69	0.4	0.35
5	191	117	88	237	0	633	0.47	2.97	0.4	0.33
6	174	112	90	247	0	623	0.52	3.24	0.43	0.39
7	178	120	82	217	0	597	0.46	2.52	0.39	0.33
8	174	114	95	223	0	606	0.48	2.65	0.41	0.34
9	171	115	79	239	0	604	0.49	2.72	0.43	0.35
10	179	120	87	287	0	673	0.57	3.7	0.52	0.39

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

9.2.1 Bar graph : Distance Violation statistics for each model



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

9.3 Distance violation statistics for the ensemble

Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 4597(IR:1872, SQ:946, MR:423, LR:1356, IC:0) restraints are not violated in the ensemble.

Number of violated restraints						Fraction of the ensemble	
IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total	Count[6]	%
52	46	29	120	0	247	1	10.0
33	33	23	51	0	140	2	20.0
16	17	13	37	0	83	3	30.0

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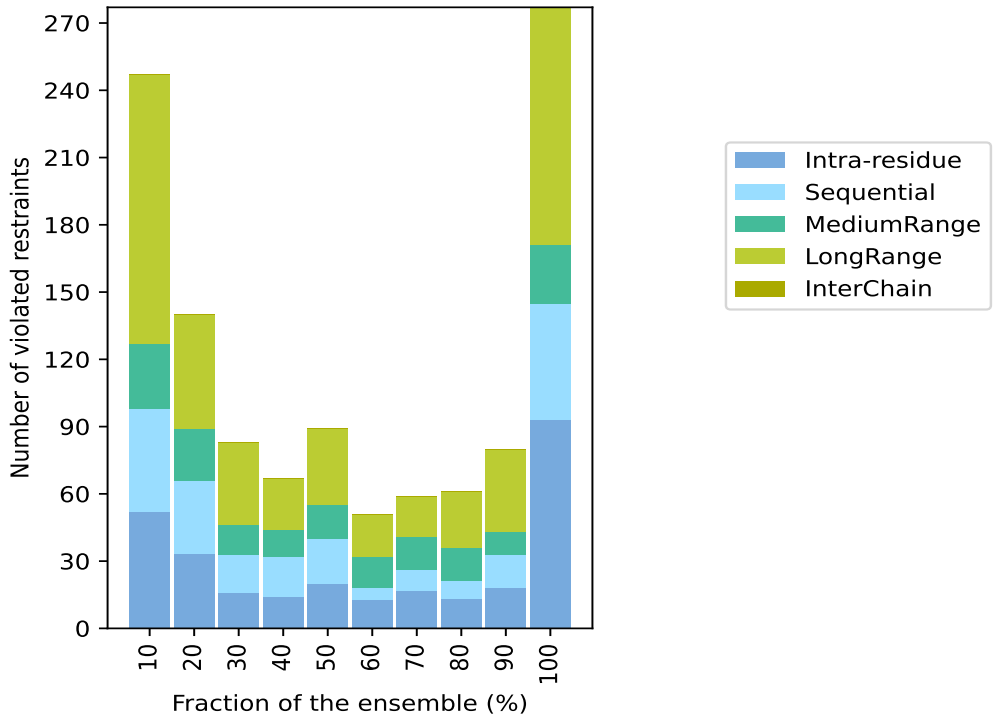
Number of violated restraints						Fraction of the ensemble	
IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total	Count[6]	%
14	18	12	23	0	67	4	40.0
20	20	15	34	0	89	5	50.0
13	5	14	19	0	51	6	60.0
17	9	15	18	0	59	7	70.0
13	8	15	25	0	61	8	80.0
18	15	10	37	0	80	9	90.0
93	52	26	106	0	277	10	100.0

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

9.3.1 Bar graph : Distance violation statistics for the ensemble

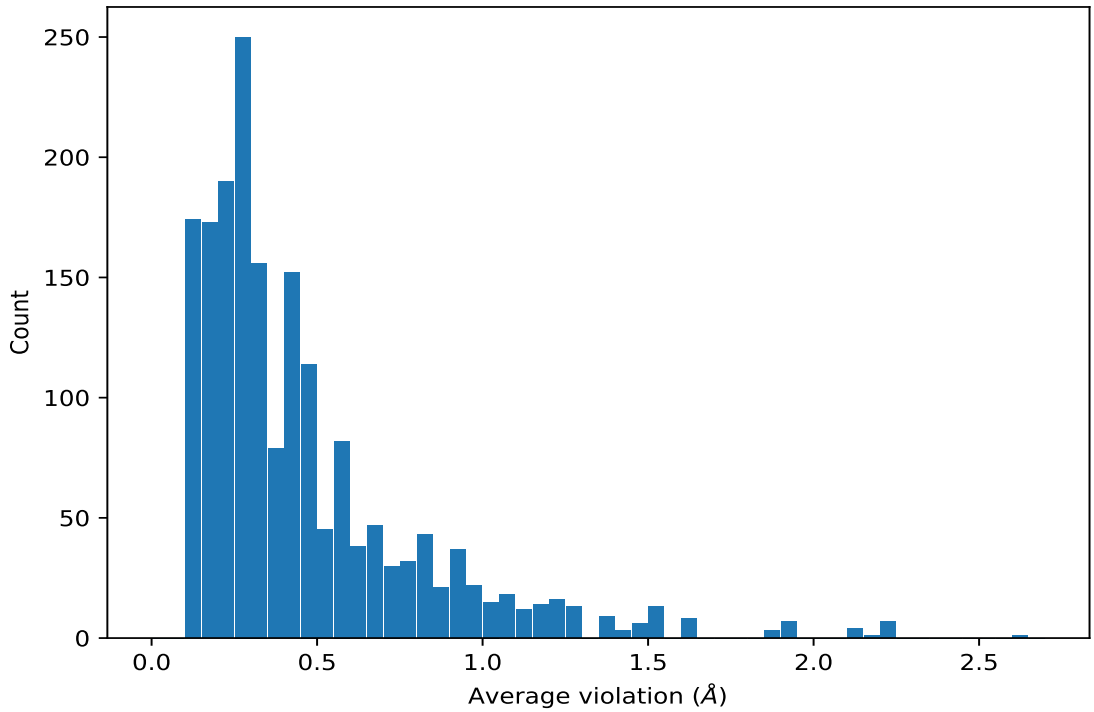


9.4 Most violated distance restraints in the ensemble

9.4.1 Histogram : Distribution of mean distance violations

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

in the ensemble



9.4.2 Table: Most violated distance restraints

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

Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,250)	1:15:A:LEU:HD11	1:66:A:LEU:HD22	10	2.2	0.08	2.19
(3,250)	1:15:A:LEU:HD12	1:66:A:LEU:HD21	10	2.2	0.08	2.19
(3,250)	1:15:A:LEU:HD11	1:66:A:LEU:HD23	10	2.2	0.08	2.19
(3,250)	1:15:A:LEU:HD12	1:66:A:LEU:HD23	10	2.2	0.08	2.19
(3,250)	1:15:A:LEU:HD13	1:66:A:LEU:HD23	10	2.2	0.08	2.19
(3,250)	1:15:A:LEU:HD12	1:66:A:LEU:HD22	10	2.2	0.08	2.19
(3,250)	1:15:A:LEU:HD13	1:66:A:LEU:HD21	10	2.2	0.08	2.19
(1,394)	1:24:A:ILE:HG12	1:67:A:GLU:HB3	10	2.15	0.17	2.12
(1,62)	1:104:A:VAL:HG11	1:114:A:ARG:HB3	10	2.13	0.31	2.22
(1,62)	1:104:A:VAL:HG12	1:114:A:ARG:HB3	10	2.13	0.31	2.22
(1,62)	1:104:A:VAL:HG13	1:114:A:ARG:HB3	10	2.13	0.31	2.22
(1,1111)	1:22:A:LYS:HB2	1:67:A:GLU:HB2	10	2.1	0.23	2.16
(1,2305)	1:104:A:VAL:HG11	1:114:A:ARG:HG2	10	1.93	0.73	2.06
(1,2305)	1:104:A:VAL:HG12	1:114:A:ARG:HG2	10	1.93	0.73	2.06
(1,2305)	1:104:A:VAL:HG13	1:114:A:ARG:HG2	10	1.93	0.73	2.06

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1873)	1:113:A:ARG:HB2	1:115:A:VAL:HG11	10	1.64	0.82	1.6
(1,1873)	1:113:A:ARG:HB2	1:115:A:VAL:HG12	10	1.64	0.82	1.6
(1,1873)	1:113:A:ARG:HB2	1:115:A:VAL:HG13	10	1.64	0.82	1.6
(1,769)	1:42:A:VAL:HG21	1:48:A:ALA:HA	10	1.61	0.09	1.62
(1,769)	1:42:A:VAL:HG22	1:48:A:ALA:HA	10	1.61	0.09	1.62
(1,769)	1:42:A:VAL:HG23	1:48:A:ALA:HA	10	1.61	0.09	1.62
(1,664)	1:15:A:LEU:HB2	1:42:A:VAL:HG21	10	1.53	0.16	1.5
(1,664)	1:15:A:LEU:HB2	1:42:A:VAL:HG22	10	1.53	0.16	1.5
(1,664)	1:15:A:LEU:HB2	1:42:A:VAL:HG23	10	1.53	0.16	1.5
(1,700)	1:43:A:ILE:HG12	1:41:A:GLU:HG3	10	1.52	0.77	1.53
(1,3699)	1:69:A:VAL:H	1:70:A:ILE:HG13	10	1.5	0.12	1.51
(1,2502)	1:107:A:THR:H	1:87:A:ASN:HB2	10	1.48	0.11	1.46
(1,1723)	1:104:A:VAL:HG11	1:114:A:ARG:HA	10	1.48	0.08	1.5
(1,1723)	1:104:A:VAL:HG12	1:114:A:ARG:HA	10	1.48	0.08	1.5
(1,1723)	1:104:A:VAL:HG13	1:114:A:ARG:HA	10	1.48	0.08	1.5
(1,2145)	1:119:A:GLN:HB3	1:122:A:ASP:HB3	10	1.48	0.2	1.46
(1,1419)	1:84:A:TYR:HB2	1:87:A:ASN:HB3	10	1.44	0.19	1.46
(1,2144)	1:119:A:GLN:HB3	1:122:A:ASP:HB3	10	1.43	0.2	1.42
(1,596)	1:49:A:VAL:HB	1:40:A:LYS:HB3	10	1.39	0.25	1.39
(1,2995)	1:60:A:LYS:HE2	1:60:A:LYS:H	10	1.29	0.08	1.32
(1,1906)	1:115:A:VAL:HA	1:116:A:GLU:HG2	10	1.26	0.16	1.25
(1,3630)	1:123:A:ILE:H	1:80:A:LEU:HB3	10	1.26	0.16	1.18
(1,2745)	1:87:A:ASN:HB3	1:86:A:GLY:H	10	1.25	0.05	1.27
(2,602)	1:60:A:LYS:HE2	1:59:A:LEU:H	10	1.23	0.15	1.18
(1,2092)	1:127:A:ALA:HB1	1:38:A:ILE:HG13	10	1.22	0.16	1.18
(1,2092)	1:127:A:ALA:HB2	1:38:A:ILE:HG13	10	1.22	0.16	1.18
(1,2092)	1:127:A:ALA:HB3	1:38:A:ILE:HG13	10	1.22	0.16	1.18
(1,2201)	1:105:A:ILE:HG21	1:84:A:TYR:HB2	10	1.16	0.2	1.14
(1,2201)	1:105:A:ILE:HG22	1:84:A:TYR:HB2	10	1.16	0.2	1.14
(1,2201)	1:105:A:ILE:HG23	1:84:A:TYR:HB2	10	1.16	0.2	1.14
(1,956)	1:60:A:LYS:HB3	1:49:A:VAL:HA	10	1.14	0.07	1.14
(3,927)	1:79:A:VAL:HG12	1:79:A:VAL:HA	10	1.1	0.01	1.1
(3,927)	1:79:A:VAL:HG11	1:79:A:VAL:HA	10	1.1	0.01	1.1
(3,927)	1:79:A:VAL:HG13	1:79:A:VAL:HA	10	1.1	0.01	1.1
(1,2710)	1:77:A:ILE:HG12	1:89:A:GLY:H	10	1.09	0.15	1.13
(1,3508)	1:40:A:LYS:HE3	1:41:A:GLU:H	10	1.08	0.48	0.89
(1,2437)	1:118:A:ILE:HG13	1:116:A:GLU:H	10	1.08	0.37	1.15
(1,3382)	1:14:A:TRP:H	1:15:A:LEU:HB3	10	1.07	0.11	1.05
(1,3579)	1:84:A:TYR:HB2	1:87:A:ASN:HD22	10	1.02	0.13	1.05
(3,501)	1:49:A:VAL:HG11	1:40:A:LYS:HB3	10	1.02	0.23	1.04
(3,501)	1:49:A:VAL:HG13	1:40:A:LYS:HB3	10	1.02	0.23	1.04
(3,501)	1:49:A:VAL:HG12	1:40:A:LYS:HB3	10	1.02	0.23	1.04

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,958)	1:60:A:LYS:HE2	1:60:A:LYS:HB3	10	1.01	0.01	1.01
(1,2620)	1:97:A:LYS:H	1:97:A:LYS:HB3	10	1.01	0.03	1.0
(1,2685)	1:76:A:ARG:HD2	1:91:A:LEU:H	10	1.0	0.21	0.98
(1,2922)	1:67:A:GLU:H	1:22:A:LYS:HB2	10	0.98	0.16	0.96
(1,3694)	1:68:A:THR:H	1:22:A:LYS:HB2	10	0.97	0.23	1.02
(3,814)	1:24:A:ILE:HD11	1:65:A:HIS:H	10	0.96	0.22	0.96
(3,814)	1:24:A:ILE:HD13	1:65:A:HIS:H	10	0.96	0.22	0.96
(3,814)	1:24:A:ILE:HD12	1:65:A:HIS:H	10	0.96	0.22	0.96
(3,389)	1:91:A:LEU:HD13	1:71:A:PRO:HG3	10	0.95	0.18	0.89
(3,389)	1:73:A:PRO:HG3	1:91:A:LEU:HD11	10	0.95	0.18	0.89
(3,389)	1:91:A:LEU:HD11	1:71:A:PRO:HG3	10	0.95	0.18	0.89
(3,389)	1:73:A:PRO:HG3	1:91:A:LEU:HD12	10	0.95	0.18	0.89
(3,389)	1:73:A:PRO:HG3	1:91:A:LEU:HD13	10	0.95	0.18	0.89
(1,1520)	1:91:A:LEU:HD11	1:71:A:PRO:HD3	10	0.94	0.92	0.67
(1,1520)	1:91:A:LEU:HD12	1:71:A:PRO:HD3	10	0.94	0.92	0.67
(1,1520)	1:91:A:LEU:HD13	1:71:A:PRO:HD3	10	0.94	0.92	0.67
(1,2165)	1:104:A:VAL:HG11	1:114:A:ARG:HA	10	0.94	0.08	0.96
(1,2165)	1:104:A:VAL:HG12	1:114:A:ARG:HA	10	0.94	0.08	0.96
(1,2165)	1:104:A:VAL:HG13	1:114:A:ARG:HA	10	0.94	0.08	0.96
(1,561)	1:39:A:VAL:HG21	1:18:A:GLU:H	10	0.93	0.11	0.9
(1,561)	1:39:A:VAL:HG22	1:18:A:GLU:H	10	0.93	0.11	0.9
(1,561)	1:39:A:VAL:HG23	1:18:A:GLU:H	10	0.93	0.11	0.9
(2,465)	1:108:A:GLY:H	1:110:A:LEU:HB3	10	0.92	0.13	0.9
(1,959)	1:60:A:LYS:HD2	1:61:A:LEU:H	10	0.9	0.24	0.87
(1,915)	1:60:A:LYS:HE2	1:60:A:LYS:HB3	10	0.9	0.01	0.9
(1,1521)	1:73:A:PRO:HD2	1:91:A:LEU:HD11	10	0.9	0.53	0.7
(1,1521)	1:73:A:PRO:HD2	1:91:A:LEU:HD12	10	0.9	0.53	0.7
(1,1521)	1:73:A:PRO:HD2	1:91:A:LEU:HD13	10	0.9	0.53	0.7
(1,3590)	1:97:A:LYS:HB3	1:95:A:ASN:HD21	10	0.87	0.31	0.86
(1,2008)	1:80:A:LEU:HB3	1:123:A:ILE:HA	10	0.87	0.09	0.84
(1,1881)	1:113:A:ARG:HD2	1:114:A:ARG:H	10	0.86	0.13	0.85
(3,892)	1:25:A:THR:HG21	1:25:A:THR:HA	10	0.86	0.03	0.87
(3,892)	1:25:A:THR:HG23	1:25:A:THR:HA	10	0.86	0.03	0.87
(3,892)	1:25:A:THR:HG22	1:25:A:THR:HA	10	0.86	0.03	0.87
(1,2491)	1:110:A:LEU:HB3	1:110:A:LEU:H	10	0.86	0.02	0.85
(1,2323)	1:126:A:LEU:H	1:71:A:PRO:HD2	10	0.84	0.22	0.8
(3,735)	1:115:A:VAL:HG13	1:103:A:ILE:HD12	10	0.83	0.59	0.8
(3,735)	1:115:A:VAL:HG11	1:103:A:ILE:HD13	10	0.83	0.59	0.8
(3,735)	1:115:A:VAL:HG12	1:103:A:ILE:HD11	10	0.83	0.59	0.8
(3,735)	1:115:A:VAL:HG13	1:103:A:ILE:HD11	10	0.83	0.59	0.8
(3,735)	1:115:A:VAL:HG12	1:103:A:ILE:HD13	10	0.83	0.59	0.8
(3,735)	1:115:A:VAL:HG12	1:103:A:ILE:HD12	10	0.83	0.59	0.8

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,735)	1:115:A:VAL:HG13	1:103:A:ILE:HD13	10	0.83	0.59	0.8
(1,2849)	1:76:A:ARG:H	1:76:A:ARG:HG3	10	0.83	0.04	0.86
(1,2333)	1:125:A:LYS:H	1:71:A:PRO:HD2	10	0.82	0.24	0.74
(1,3460)	1:78:A:LEU:HD11	1:16:A:GLN:HE22	10	0.82	0.52	0.68
(1,3460)	1:78:A:LEU:HD12	1:16:A:GLN:HE22	10	0.82	0.52	0.68
(1,3460)	1:78:A:LEU:HD13	1:16:A:GLN:HE22	10	0.82	0.52	0.68
(3,401)	1:15:A:LEU:HD23	1:80:A:LEU:HD11	10	0.81	0.22	0.82
(3,401)	1:15:A:LEU:HD22	1:80:A:LEU:HD13	10	0.81	0.22	0.82
(3,401)	1:15:A:LEU:HD22	1:80:A:LEU:HD11	10	0.81	0.22	0.82
(3,401)	1:15:A:LEU:HD23	1:80:A:LEU:HD13	10	0.81	0.22	0.82
(3,401)	1:15:A:LEU:HD21	1:80:A:LEU:HD12	10	0.81	0.22	0.82
(3,401)	1:15:A:LEU:HD23	1:80:A:LEU:HD12	10	0.81	0.22	0.82
(3,401)	1:15:A:LEU:HD23	1:66:A:LEU:HD23	10	0.81	0.22	0.82
(1,1887)	1:76:A:ARG:HD3	1:126:A:LEU:HD21	10	0.8	0.22	0.88
(1,1887)	1:76:A:ARG:HD3	1:126:A:LEU:HD22	10	0.8	0.22	0.88
(1,1887)	1:76:A:ARG:HD3	1:126:A:LEU:HD23	10	0.8	0.22	0.88
(1,751)	1:46:A:TYR:HA	1:63:A:GLN:HB2	10	0.79	0.15	0.78
(1,2434)	1:116:A:GLU:H	1:116:A:GLU:HG2	10	0.79	0.1	0.82
(1,1177)	1:70:A:ILE:HG13	1:69:A:VAL:HA	10	0.78	0.07	0.75
(3,603)	1:25:A:THR:HG22	1:23:A:ILE:HD13	10	0.78	0.15	0.8
(3,603)	1:25:A:THR:HG22	1:23:A:ILE:HD11	10	0.78	0.15	0.8
(3,603)	1:25:A:THR:HG21	1:23:A:ILE:HD12	10	0.78	0.15	0.8
(3,603)	1:25:A:THR:HG23	1:23:A:ILE:HD13	10	0.78	0.15	0.8
(3,603)	1:25:A:THR:HG22	1:23:A:ILE:HD12	10	0.78	0.15	0.8
(3,603)	1:25:A:THR:HG21	1:23:A:ILE:HD13	10	0.78	0.15	0.8
(3,603)	1:25:A:THR:HG23	1:23:A:ILE:HD11	10	0.78	0.15	0.8
(1,1095)	1:73:A:PRO:HG2	1:91:A:LEU:HD11	10	0.75	0.23	0.68
(1,1095)	1:73:A:PRO:HG2	1:91:A:LEU:HD12	10	0.75	0.23	0.68
(1,1095)	1:73:A:PRO:HG2	1:91:A:LEU:HD13	10	0.75	0.23	0.68
(1,2161)	1:115:A:VAL:HG21	1:118:A:ILE:HG13	10	0.75	0.41	0.78
(1,2161)	1:115:A:VAL:HG22	1:118:A:ILE:HG13	10	0.75	0.41	0.78
(1,2161)	1:115:A:VAL:HG23	1:118:A:ILE:HG13	10	0.75	0.41	0.78
(1,1768)	1:105:A:ILE:HG12	1:105:A:ILE:HG21	10	0.74	0.0	0.74
(1,1768)	1:105:A:ILE:HG12	1:105:A:ILE:HG22	10	0.74	0.0	0.74
(1,1768)	1:105:A:ILE:HG12	1:105:A:ILE:HG23	10	0.74	0.0	0.74
(3,561)	1:40:A:LYS:HE3	1:40:A:LYS:HB2	10	0.74	0.21	0.73
(1,1285)	1:76:A:ARG:HG2	1:126:A:LEU:HD21	10	0.74	0.09	0.73
(1,1285)	1:76:A:ARG:HG2	1:126:A:LEU:HD22	10	0.74	0.09	0.73
(1,1285)	1:76:A:ARG:HG2	1:126:A:LEU:HD23	10	0.74	0.09	0.73
(1,2719)	1:88:A:GLU:H	1:87:A:ASN:HB2	10	0.73	0.12	0.78
(1,3346)	1:39:A:VAL:HG21	1:18:A:GLU:H	10	0.73	0.11	0.7
(1,3346)	1:39:A:VAL:HG22	1:18:A:GLU:H	10	0.73	0.11	0.7

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3346)	1:39:A:VAL:HG23	1:18:A:GLU:H	10	0.73	0.11	0.7
(2,566)	1:63:A:GLN:HB2	1:46:A:TYR:H	10	0.73	0.19	0.73
(1,685)	1:60:A:LYS:HE3	1:43:A:ILE:HD11	10	0.72	0.1	0.69
(1,685)	1:60:A:LYS:HE3	1:43:A:ILE:HD12	10	0.72	0.1	0.69
(1,685)	1:60:A:LYS:HE3	1:43:A:ILE:HD13	10	0.72	0.1	0.69
(3,777)	1:18:A:GLU:H	1:38:A:ILE:HG23	10	0.72	0.1	0.74
(3,777)	1:18:A:GLU:H	1:38:A:ILE:HG22	10	0.72	0.1	0.74
(3,777)	1:18:A:GLU:H	1:38:A:ILE:HG21	10	0.72	0.1	0.74
(1,1892)	1:113:A:ARG:HD2	1:114:A:ARG:H	10	0.71	0.14	0.7
(3,850)	1:15:A:LEU:HD11	1:14:A:TRP:HH2	10	0.71	0.11	0.72
(3,850)	1:15:A:LEU:HD12	1:14:A:TRP:HH2	10	0.71	0.11	0.72
(3,850)	1:15:A:LEU:HD13	1:14:A:TRP:HH2	10	0.71	0.11	0.72
(3,699)	1:110:A:LEU:HA	1:105:A:ILE:HG21	10	0.71	0.07	0.69
(3,699)	1:110:A:LEU:HA	1:105:A:ILE:HG22	10	0.71	0.07	0.69
(3,699)	1:110:A:LEU:HA	1:105:A:ILE:HG23	10	0.71	0.07	0.69
(3,795)	1:48:A:ALA:H	1:63:A:GLN:HA	10	0.7	0.11	0.72
(3,795)	1:52:A:MET:H	1:56:A:GLY:HA3	10	0.7	0.11	0.72
(3,451)	1:121:A:GLU:H	1:118:A:ILE:HG23	10	0.69	0.13	0.7
(3,451)	1:121:A:GLU:H	1:118:A:ILE:HG22	10	0.69	0.13	0.7
(3,451)	1:121:A:GLU:H	1:118:A:ILE:HG21	10	0.69	0.13	0.7
(3,162)	1:15:A:LEU:H	1:48:A:ALA:HB2	10	0.69	0.12	0.7
(3,162)	1:15:A:LEU:H	1:48:A:ALA:HB3	10	0.69	0.12	0.7
(3,162)	1:15:A:LEU:H	1:48:A:ALA:HB1	10	0.69	0.12	0.7
(3,162)	1:15:A:LEU:H	1:19:A:ILE:HD11	10	0.69	0.12	0.7
(3,162)	1:15:A:LEU:H	1:19:A:ILE:HD13	10	0.69	0.12	0.7
(1,1370)	1:122:A:ASP:HA	1:80:A:LEU:HB3	10	0.68	0.22	0.64
(2,398)	1:13:A:TYR:HB3	1:15:A:LEU:HD21	10	0.67	0.22	0.68
(2,398)	1:13:A:TYR:HB3	1:15:A:LEU:HD22	10	0.67	0.22	0.68
(2,398)	1:13:A:TYR:HB3	1:15:A:LEU:HD23	10	0.67	0.22	0.68
(1,3780)	1:63:A:GLN:HB2	1:46:A:TYR:HD1	10	0.67	0.2	0.68
(1,3780)	1:63:A:GLN:HB2	1:46:A:TYR:HD2	10	0.67	0.2	0.68
(1,1273)	1:76:A:ARG:HG3	1:76:A:ARG:HA	10	0.67	0.04	0.67
(1,2734)	1:87:A:ASN:H	1:87:A:ASN:HB3	10	0.67	0.03	0.66
(1,1183)	1:71:A:PRO:HD3	1:70:A:ILE:HG21	10	0.66	0.2	0.62
(1,1183)	1:71:A:PRO:HD3	1:70:A:ILE:HG22	10	0.66	0.2	0.62
(1,1183)	1:71:A:PRO:HD3	1:70:A:ILE:HG23	10	0.66	0.2	0.62
(1,2251)	1:60:A:LYS:HE2	1:49:A:VAL:HA	10	0.65	0.21	0.71
(1,1265)	1:76:A:ARG:H	1:76:A:ARG:HG3	10	0.64	0.04	0.66
(1,1037)	1:63:A:GLN:HG2	1:64:A:THR:HA	10	0.64	0.21	0.58
(1,1890)	1:84:A:TYR:HE1	1:113:A:ARG:HD3	10	0.64	0.28	0.78
(1,1890)	1:84:A:TYR:HE2	1:113:A:ARG:HD3	10	0.64	0.28	0.78
(3,1036)	1:21:A:VAL:HG13	1:22:A:LYS:H	10	0.62	0.05	0.63

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,1036)	1:21:A:VAL:HG12	1:22:A:LYS:H	10	0.62	0.05	0.63
(3,1036)	1:21:A:VAL:HG11	1:22:A:LYS:H	10	0.62	0.05	0.63
(1,201)	1:73:A:PRO:HG2	1:91:A:LEU:HD11	10	0.61	0.23	0.54
(1,201)	1:73:A:PRO:HG2	1:91:A:LEU:HD12	10	0.61	0.23	0.54
(1,201)	1:73:A:PRO:HG2	1:91:A:LEU:HD13	10	0.61	0.23	0.54
(1,1274)	1:77:A:ILE:HG12	1:76:A:ARG:HA	10	0.61	0.05	0.6
(1,3112)	1:46:A:TYR:HB3	1:46:A:TYR:H	10	0.61	0.03	0.61
(3,995)	1:79:A:VAL:HG22	1:79:A:VAL:H	10	0.61	0.19	0.68
(3,995)	1:102:A:THR:HG21	1:116:A:GLU:H	10	0.61	0.19	0.68
(3,995)	1:102:A:THR:HG23	1:116:A:GLU:H	10	0.61	0.19	0.68
(3,995)	1:102:A:THR:HG22	1:116:A:GLU:H	10	0.61	0.19	0.68
(1,3728)	1:97:A:LYS:H	1:95:A:ASN:HD21	10	0.6	0.24	0.6
(1,3840)	1:46:A:TYR:HE1	1:13:A:TYR:HB2	10	0.6	0.38	0.54
(1,3840)	1:46:A:TYR:HE2	1:13:A:TYR:HB2	10	0.6	0.38	0.54
(1,397)	1:24:A:ILE:H	1:24:A:ILE:HG13	10	0.59	0.03	0.6
(3,449)	1:104:A:VAL:HG11	1:104:A:VAL:HG22	10	0.58	0.01	0.58
(3,449)	1:104:A:VAL:HG13	1:104:A:VAL:HG22	10	0.58	0.01	0.58
(3,449)	1:104:A:VAL:HG11	1:104:A:VAL:HG23	10	0.58	0.01	0.58
(3,449)	1:104:A:VAL:HG13	1:104:A:VAL:HG23	10	0.58	0.01	0.58
(3,449)	1:104:A:VAL:HG13	1:104:A:VAL:HG21	10	0.58	0.01	0.58
(3,449)	1:104:A:VAL:HG12	1:104:A:VAL:HG22	10	0.58	0.01	0.58
(3,449)	1:104:A:VAL:HG12	1:104:A:VAL:HG23	10	0.58	0.01	0.58
(3,399)	1:43:A:ILE:HG22	1:44:A:ASP:HA	10	0.58	0.22	0.64
(3,399)	1:45:A:LYS:HG3	1:44:A:ASP:HA	10	0.58	0.22	0.64
(3,399)	1:43:A:ILE:HG21	1:44:A:ASP:HA	10	0.58	0.22	0.64
(3,399)	1:43:A:ILE:HG23	1:44:A:ASP:HA	10	0.58	0.22	0.64
(1,577)	1:15:A:LEU:HD21	1:39:A:VAL:HG11	10	0.58	0.09	0.58
(1,577)	1:15:A:LEU:HD21	1:39:A:VAL:HG12	10	0.58	0.09	0.58
(1,577)	1:15:A:LEU:HD21	1:39:A:VAL:HG13	10	0.58	0.09	0.58
(1,577)	1:15:A:LEU:HD22	1:39:A:VAL:HG11	10	0.58	0.09	0.58
(1,577)	1:15:A:LEU:HD22	1:39:A:VAL:HG12	10	0.58	0.09	0.58
(1,577)	1:15:A:LEU:HD22	1:39:A:VAL:HG13	10	0.58	0.09	0.58
(1,577)	1:15:A:LEU:HD23	1:39:A:VAL:HG11	10	0.58	0.09	0.58
(1,577)	1:15:A:LEU:HD23	1:39:A:VAL:HG12	10	0.58	0.09	0.58
(1,577)	1:15:A:LEU:HD23	1:39:A:VAL:HG13	10	0.58	0.09	0.58
(1,33)	1:113:A:ARG:HA	1:113:A:ARG:HG3	10	0.57	0.02	0.56
(1,2287)	1:20:A:ILE:HA	1:38:A:ILE:HG13	10	0.56	0.17	0.52
(1,115)	1:15:A:LEU:HD11	1:15:A:LEU:HA	10	0.55	0.01	0.56
(1,115)	1:15:A:LEU:HD12	1:15:A:LEU:HA	10	0.55	0.01	0.56
(1,115)	1:15:A:LEU:HD13	1:15:A:LEU:HA	10	0.55	0.01	0.56
(1,142)	1:15:A:LEU:HD11	1:15:A:LEU:HA	10	0.54	0.01	0.55
(1,142)	1:15:A:LEU:HD12	1:15:A:LEU:HA	10	0.54	0.01	0.55

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,142)	1:15:A:LEU:HD13	1:15:A:LEU:HA	10	0.54	0.01	0.55
(1,2887)	1:70:A:ILE:H	1:70:A:ILE:HG13	10	0.53	0.04	0.54
(1,669)	1:43:A:ILE:HG12	1:43:A:ILE:HA	10	0.53	0.01	0.54
(3,1155)	1:118:A:ILE:HG23	1:119:A:GLN:H	10	0.52	0.12	0.55
(3,1155)	1:118:A:ILE:HG21	1:119:A:GLN:H	10	0.52	0.12	0.55
(3,1155)	1:118:A:ILE:HG22	1:119:A:GLN:H	10	0.52	0.12	0.55
(1,636)	1:42:A:VAL:HG21	1:42:A:VAL:HA	10	0.51	0.01	0.52
(1,636)	1:42:A:VAL:HG22	1:42:A:VAL:HA	10	0.51	0.01	0.52
(1,636)	1:42:A:VAL:HG23	1:42:A:VAL:HA	10	0.51	0.01	0.52
(3,673)	1:73:A:PRO:HA	1:73:A:PRO:HD2	10	0.51	0.0	0.51
(1,2735)	1:85:A:ARG:HB3	1:87:A:ASN:H	10	0.49	0.08	0.52
(1,2848)	1:76:A:ARG:H	1:76:A:ARG:HD2	10	0.49	0.12	0.46
(1,1584)	1:120:A:TYR:HD1	1:94:A:ILE:HG21	10	0.49	0.11	0.52
(1,1584)	1:120:A:TYR:HD1	1:94:A:ILE:HG22	10	0.49	0.11	0.52
(1,1584)	1:120:A:TYR:HD1	1:94:A:ILE:HG23	10	0.49	0.11	0.52
(1,1584)	1:120:A:TYR:HD2	1:94:A:ILE:HG21	10	0.49	0.11	0.52
(1,1584)	1:120:A:TYR:HD2	1:94:A:ILE:HG22	10	0.49	0.11	0.52
(1,1584)	1:120:A:TYR:HD2	1:94:A:ILE:HG23	10	0.49	0.11	0.52
(3,879)	1:104:A:VAL:HG13	1:104:A:VAL:HB	10	0.48	0.01	0.48
(3,879)	1:104:A:VAL:HG12	1:104:A:VAL:HB	10	0.48	0.01	0.48
(3,879)	1:104:A:VAL:HG11	1:104:A:VAL:HB	10	0.48	0.01	0.48
(3,879)	1:49:A:VAL:HB	1:49:A:VAL:HG23	10	0.48	0.01	0.48
(1,781)	1:48:A:ALA:HB1	1:39:A:VAL:HB	10	0.48	0.09	0.5
(1,781)	1:48:A:ALA:HB2	1:39:A:VAL:HB	10	0.48	0.09	0.5
(1,781)	1:48:A:ALA:HB3	1:39:A:VAL:HB	10	0.48	0.09	0.5
(1,1347)	1:79:A:VAL:HG11	1:79:A:VAL:HA	10	0.48	0.0	0.48
(1,1347)	1:79:A:VAL:HG12	1:79:A:VAL:HA	10	0.48	0.0	0.48
(1,1347)	1:79:A:VAL:HG13	1:79:A:VAL:HA	10	0.48	0.0	0.48
(3,30)	1:103:A:ILE:H	1:103:A:ILE:HD11	10	0.48	0.09	0.48
(3,30)	1:103:A:ILE:H	1:103:A:ILE:HD13	10	0.48	0.09	0.48
(3,30)	1:103:A:ILE:H	1:103:A:ILE:HD12	10	0.48	0.09	0.48
(1,1682)	1:47:A:THR:HG21	1:43:A:ILE:HB	10	0.48	0.17	0.51
(1,1682)	1:47:A:THR:HG22	1:43:A:ILE:HB	10	0.48	0.17	0.51
(1,1682)	1:47:A:THR:HG23	1:43:A:ILE:HB	10	0.48	0.17	0.51
(2,338)	1:126:A:LEU:HB3	1:77:A:ILE:HG12	10	0.47	0.13	0.44
(1,2346)	1:124:A:SER:H	1:78:A:LEU:HB2	10	0.47	0.11	0.44
(3,671)	1:40:A:LYS:HB3	1:41:A:GLU:H	10	0.47	0.07	0.45
(1,1275)	1:97:A:LYS:H	1:97:A:LYS:HB3	10	0.47	0.02	0.46
(1,1959)	1:118:A:ILE:HD11	1:122:A:ASP:HB2	10	0.46	0.22	0.44
(1,1959)	1:118:A:ILE:HD12	1:122:A:ASP:HB2	10	0.46	0.22	0.44
(1,1959)	1:118:A:ILE:HD13	1:122:A:ASP:HB2	10	0.46	0.22	0.44
(1,1214)	1:73:A:PRO:HD3	1:72:A:ALA:HB1	10	0.46	0.08	0.49

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1214)	1:73:A:PRO:HD3	1:72:A:ALA:HB2	10	0.46	0.08	0.49
(1,1214)	1:73:A:PRO:HD3	1:72:A:ALA:HB3	10	0.46	0.08	0.49
(3,1093)	1:70:A:ILE:HD13	1:123:A:ILE:H	10	0.46	0.07	0.45
(3,1093)	1:70:A:ILE:HD11	1:123:A:ILE:H	10	0.46	0.07	0.45
(3,1093)	1:70:A:ILE:HD12	1:123:A:ILE:H	10	0.46	0.07	0.45
(1,2244)	1:15:A:LEU:HB2	1:48:A:ALA:HB1	10	0.45	0.1	0.44
(1,2244)	1:15:A:LEU:HB2	1:48:A:ALA:HB2	10	0.45	0.1	0.44
(1,2244)	1:15:A:LEU:HB2	1:48:A:ALA:HB3	10	0.45	0.1	0.44
(1,578)	1:42:A:VAL:HG11	1:39:A:VAL:HG21	10	0.45	0.1	0.44
(1,578)	1:42:A:VAL:HG11	1:39:A:VAL:HG22	10	0.45	0.1	0.44
(1,578)	1:42:A:VAL:HG11	1:39:A:VAL:HG23	10	0.45	0.1	0.44
(1,578)	1:42:A:VAL:HG12	1:39:A:VAL:HG21	10	0.45	0.1	0.44
(1,578)	1:42:A:VAL:HG12	1:39:A:VAL:HG22	10	0.45	0.1	0.44
(1,578)	1:42:A:VAL:HG12	1:39:A:VAL:HG23	10	0.45	0.1	0.44
(1,578)	1:42:A:VAL:HG13	1:39:A:VAL:HG21	10	0.45	0.1	0.44
(1,578)	1:42:A:VAL:HG13	1:39:A:VAL:HG22	10	0.45	0.1	0.44
(1,578)	1:42:A:VAL:HG13	1:39:A:VAL:HG23	10	0.45	0.1	0.44
(1,1184)	1:70:A:ILE:HG12	1:70:A:ILE:HG21	10	0.45	0.0	0.45
(1,1184)	1:70:A:ILE:HG12	1:70:A:ILE:HG22	10	0.45	0.0	0.45
(1,1184)	1:70:A:ILE:HG12	1:70:A:ILE:HG23	10	0.45	0.0	0.45
(3,767)	1:77:A:ILE:H	1:77:A:ILE:HD13	10	0.45	0.16	0.41
(3,767)	1:77:A:ILE:H	1:77:A:ILE:HD12	10	0.45	0.16	0.41
(3,767)	1:77:A:ILE:H	1:77:A:ILE:HD11	10	0.45	0.16	0.41
(1,703)	1:43:A:ILE:H	1:43:A:ILE:HG12	10	0.45	0.03	0.44
(1,169)	1:80:A:LEU:HD21	1:16:A:GLN:HG3	10	0.44	0.13	0.42
(1,169)	1:80:A:LEU:HD22	1:16:A:GLN:HG3	10	0.44	0.13	0.42
(1,169)	1:80:A:LEU:HD23	1:16:A:GLN:HG3	10	0.44	0.13	0.42
(1,856)	1:38:A:ILE:H	1:53:A:ILE:HD11	10	0.44	0.15	0.38
(1,856)	1:38:A:ILE:H	1:53:A:ILE:HD12	10	0.44	0.15	0.38
(1,856)	1:38:A:ILE:H	1:53:A:ILE:HD13	10	0.44	0.15	0.38
(1,3444)	1:63:A:GLN:HB3	1:14:A:TRP:HE1	10	0.44	0.08	0.46
(3,568)	1:78:A:LEU:HD11	1:78:A:LEU:HD23	10	0.44	0.05	0.46
(3,568)	1:19:A:ILE:HG21	1:78:A:LEU:HD11	10	0.44	0.05	0.46
(3,568)	1:78:A:LEU:HD11	1:78:A:LEU:HD21	10	0.44	0.05	0.46
(3,568)	1:19:A:ILE:HG21	1:78:A:LEU:HD13	10	0.44	0.05	0.46
(3,568)	1:19:A:ILE:HG22	1:78:A:LEU:HD12	10	0.44	0.05	0.46
(3,568)	1:78:A:LEU:HD13	1:78:A:LEU:HD22	10	0.44	0.05	0.46
(3,568)	1:78:A:LEU:HD12	1:78:A:LEU:HD22	10	0.44	0.05	0.46
(3,568)	1:78:A:LEU:HD11	1:78:A:LEU:HD22	10	0.44	0.05	0.46
(3,568)	1:19:A:ILE:HG23	1:78:A:LEU:HD12	10	0.44	0.05	0.46
(1,451)	1:28:A:LEU:H	1:28:A:LEU:HD11	10	0.44	0.09	0.45
(1,451)	1:28:A:LEU:H	1:28:A:LEU:HD12	10	0.44	0.09	0.45

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,451)	1:28:A:LEU:H	1:28:A:LEU:HD13	10	0.44	0.09	0.45
(1,3545)	1:66:A:LEU:H	1:63:A:GLN:HG2	10	0.44	0.08	0.44
(1,314)	1:37:A:ALA:HB1	1:50:A:VAL:HG11	10	0.43	0.03	0.43
(1,314)	1:37:A:ALA:HB1	1:50:A:VAL:HG12	10	0.43	0.03	0.43
(1,314)	1:37:A:ALA:HB1	1:50:A:VAL:HG13	10	0.43	0.03	0.43
(1,314)	1:37:A:ALA:HB2	1:50:A:VAL:HG11	10	0.43	0.03	0.43
(1,314)	1:37:A:ALA:HB2	1:50:A:VAL:HG12	10	0.43	0.03	0.43
(1,314)	1:37:A:ALA:HB2	1:50:A:VAL:HG13	10	0.43	0.03	0.43
(1,314)	1:37:A:ALA:HB3	1:50:A:VAL:HG11	10	0.43	0.03	0.43
(1,314)	1:37:A:ALA:HB3	1:50:A:VAL:HG12	10	0.43	0.03	0.43
(1,314)	1:37:A:ALA:HB3	1:50:A:VAL:HG13	10	0.43	0.03	0.43
(1,565)	1:17:A:PRO:HA	1:39:A:VAL:HG21	10	0.43	0.09	0.44
(1,565)	1:17:A:PRO:HA	1:39:A:VAL:HG22	10	0.43	0.09	0.44
(1,565)	1:17:A:PRO:HA	1:39:A:VAL:HG23	10	0.43	0.09	0.44
(1,1256)	1:90:A:THR:HG21	1:74:A:GLY:HA3	10	0.43	0.1	0.44
(1,1256)	1:90:A:THR:HG22	1:74:A:GLY:HA3	10	0.43	0.1	0.44
(1,1256)	1:90:A:THR:HG23	1:74:A:GLY:HA3	10	0.43	0.1	0.44
(1,367)	1:23:A:ILE:HG21	1:23:A:ILE:HG13	10	0.43	0.0	0.43
(1,367)	1:23:A:ILE:HG22	1:23:A:ILE:HG13	10	0.43	0.0	0.43
(1,367)	1:23:A:ILE:HG23	1:23:A:ILE:HG13	10	0.43	0.0	0.43
(1,2168)	1:61:A:LEU:HG	1:65:A:HIS:HB3	10	0.43	0.07	0.42
(1,804)	1:50:A:VAL:HG21	1:59:A:LEU:HD21	10	0.43	0.08	0.44
(1,804)	1:50:A:VAL:HG21	1:59:A:LEU:HD22	10	0.43	0.08	0.44
(1,804)	1:50:A:VAL:HG21	1:59:A:LEU:HD23	10	0.43	0.08	0.44
(1,804)	1:50:A:VAL:HG22	1:59:A:LEU:HD21	10	0.43	0.08	0.44
(1,804)	1:50:A:VAL:HG22	1:59:A:LEU:HD22	10	0.43	0.08	0.44
(1,804)	1:50:A:VAL:HG22	1:59:A:LEU:HD23	10	0.43	0.08	0.44
(1,804)	1:50:A:VAL:HG23	1:59:A:LEU:HD21	10	0.43	0.08	0.44
(1,804)	1:50:A:VAL:HG23	1:59:A:LEU:HD22	10	0.43	0.08	0.44
(1,804)	1:50:A:VAL:HG23	1:59:A:LEU:HD23	10	0.43	0.08	0.44
(3,981)	1:38:A:ILE:HG13	1:38:A:ILE:HD12	10	0.42	0.01	0.42
(3,981)	1:38:A:ILE:HG13	1:38:A:ILE:HD13	10	0.42	0.01	0.42
(3,981)	1:38:A:ILE:HG13	1:38:A:ILE:HD11	10	0.42	0.01	0.42
(3,1189)	1:78:A:LEU:HA	1:79:A:VAL:HB	10	0.42	0.02	0.42
(3,371)	1:20:A:ILE:HB	1:21:A:VAL:H	10	0.42	0.07	0.42
(3,371)	1:54:A:ASP:H	1:53:A:ILE:HG13	10	0.42	0.07	0.42
(3,841)	1:80:A:LEU:H	1:123:A:ILE:HG22	10	0.42	0.08	0.42
(3,841)	1:80:A:LEU:HD21	1:80:A:LEU:H	10	0.42	0.08	0.42
(3,841)	1:80:A:LEU:H	1:123:A:ILE:HG23	10	0.42	0.08	0.42
(3,841)	1:80:A:LEU:HD22	1:80:A:LEU:H	10	0.42	0.08	0.42
(3,841)	1:80:A:LEU:HD23	1:80:A:LEU:H	10	0.42	0.08	0.42
(1,531)	1:53:A:ILE:H	1:37:A:ALA:HB1	10	0.41	0.12	0.41

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,531)	1:53:A:ILE:H	1:37:A:ALA:HB2	10	0.41	0.12	0.41
(1,531)	1:53:A:ILE:H	1:37:A:ALA:HB3	10	0.41	0.12	0.41
(3,471)	1:24:A:ILE:H	1:24:A:ILE:HG13	10	0.41	0.05	0.43
(3,471)	1:127:A:ALA:HB1	1:20:A:ILE:H	10	0.41	0.05	0.43
(3,471)	1:127:A:ALA:HB3	1:20:A:ILE:H	10	0.41	0.05	0.43
(3,471)	1:127:A:ALA:HB2	1:20:A:ILE:H	10	0.41	0.05	0.43
(1,3322)	1:22:A:LYS:H	1:67:A:GLU:HB2	10	0.41	0.07	0.42
(3,936)	1:77:A:ILE:HG13	1:103:A:ILE:HB	10	0.41	0.08	0.42
(3,1173)	1:84:A:TYR:HE2	1:113:A:ARG:HG2	10	0.41	0.22	0.34
(3,1173)	1:84:A:TYR:HE1	1:113:A:ARG:HG2	10	0.41	0.22	0.34
(3,1173)	1:84:A:TYR:HE1	1:110:A:LEU:HB2	10	0.41	0.22	0.34
(3,1173)	1:84:A:TYR:HE2	1:110:A:LEU:HB2	10	0.41	0.22	0.34
(1,390)	1:24:A:ILE:HD11	1:67:A:GLU:HB3	10	0.41	0.14	0.41
(1,390)	1:24:A:ILE:HD12	1:67:A:GLU:HB3	10	0.41	0.14	0.41
(1,390)	1:24:A:ILE:HD13	1:67:A:GLU:HB3	10	0.41	0.14	0.41
(1,138)	1:15:A:LEU:H	1:15:A:LEU:HD11	10	0.41	0.08	0.41
(1,138)	1:15:A:LEU:H	1:15:A:LEU:HD12	10	0.41	0.08	0.41
(1,138)	1:15:A:LEU:H	1:15:A:LEU:HD13	10	0.41	0.08	0.41
(1,2007)	1:78:A:LEU:H	1:123:A:ILE:HA	10	0.41	0.08	0.4
(1,1019)	1:63:A:GLN:H	1:63:A:GLN:HB2	10	0.4	0.01	0.4
(1,147)	1:15:A:LEU:HD21	1:15:A:LEU:HB2	10	0.4	0.0	0.4
(1,147)	1:15:A:LEU:HD22	1:15:A:LEU:HB2	10	0.4	0.0	0.4
(1,147)	1:15:A:LEU:HD23	1:15:A:LEU:HB2	10	0.4	0.0	0.4
(3,676)	1:108:A:GLY:H	1:107:A:THR:HG23	10	0.4	0.06	0.4
(3,676)	1:108:A:GLY:H	1:107:A:THR:HG21	10	0.4	0.06	0.4
(3,676)	1:108:A:GLY:H	1:107:A:THR:HG22	10	0.4	0.06	0.4
(1,3446)	1:68:A:THR:HG21	1:14:A:TRP:HE1	10	0.4	0.16	0.4
(1,3446)	1:68:A:THR:HG22	1:14:A:TRP:HE1	10	0.4	0.16	0.4
(1,3446)	1:68:A:THR:HG23	1:14:A:TRP:HE1	10	0.4	0.16	0.4
(1,2976)	1:63:A:GLN:H	1:14:A:TRP:HE1	10	0.4	0.09	0.4
(1,2985)	1:61:A:LEU:HB2	1:62:A:ASP:H	10	0.4	0.05	0.4
(1,1938)	1:116:A:GLU:H	1:116:A:GLU:HG2	10	0.39	0.1	0.42
(1,2794)	1:81:A:ASN:H	1:80:A:LEU:HB3	10	0.39	0.1	0.37
(1,2906)	1:68:A:THR:H	1:66:A:LEU:HA	10	0.39	0.05	0.39
(3,600)	1:20:A:ILE:HB	1:21:A:VAL:H	10	0.39	0.07	0.38
(3,600)	1:54:A:ASP:H	1:53:A:ILE:HG13	10	0.39	0.07	0.38
(1,2122)	1:78:A:LEU:HA	1:123:A:ILE:HG21	10	0.38	0.12	0.38
(1,2122)	1:78:A:LEU:HA	1:123:A:ILE:HG22	10	0.38	0.12	0.38
(1,2122)	1:78:A:LEU:HA	1:123:A:ILE:HG23	10	0.38	0.12	0.38
(3,1074)	1:78:A:LEU:H	1:77:A:ILE:HD13	10	0.38	0.13	0.42
(3,1074)	1:78:A:LEU:H	1:77:A:ILE:HD12	10	0.38	0.13	0.42
(3,1074)	1:78:A:LEU:H	1:77:A:ILE:HD11	10	0.38	0.13	0.42

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1762)	1:105:A:ILE:HG21	1:106:A:GLU:HA	10	0.38	0.08	0.4
(1,1762)	1:105:A:ILE:HG22	1:106:A:GLU:HA	10	0.38	0.08	0.4
(1,1762)	1:105:A:ILE:HG23	1:106:A:GLU:HA	10	0.38	0.08	0.4
(3,1178)	1:109:A:PRO:HB2	1:109:A:PRO:HD3	10	0.38	0.04	0.38
(3,1178)	1:17:A:PRO:HD2	1:16:A:GLN:HG2	10	0.38	0.04	0.38
(1,3475)	1:19:A:ILE:HD11	1:18:A:GLU:H	10	0.38	0.04	0.39
(1,3475)	1:19:A:ILE:HD12	1:18:A:GLU:H	10	0.38	0.04	0.39
(1,3475)	1:19:A:ILE:HD13	1:18:A:GLU:H	10	0.38	0.04	0.39
(1,1263)	1:76:A:ARG:HG3	1:76:A:ARG:HA	10	0.37	0.04	0.38
(1,3363)	1:15:A:LEU:H	1:15:A:LEU:HD11	10	0.36	0.08	0.37
(1,3363)	1:15:A:LEU:H	1:15:A:LEU:HD12	10	0.36	0.08	0.37
(1,3363)	1:15:A:LEU:H	1:15:A:LEU:HD13	10	0.36	0.08	0.37
(3,751)	1:43:A:ILE:HG22	1:43:A:ILE:H	10	0.36	0.05	0.36
(3,751)	1:43:A:ILE:HG21	1:43:A:ILE:H	10	0.36	0.05	0.36
(3,751)	1:43:A:ILE:HG23	1:43:A:ILE:H	10	0.36	0.05	0.36
(3,951)	1:124:A:SER:H	1:123:A:ILE:HG23	10	0.35	0.07	0.36
(3,951)	1:80:A:LEU:HD13	1:124:A:SER:H	10	0.35	0.07	0.36
(3,951)	1:80:A:LEU:HD12	1:124:A:SER:H	10	0.35	0.07	0.36
(3,951)	1:124:A:SER:H	1:123:A:ILE:HG21	10	0.35	0.07	0.36
(3,951)	1:124:A:SER:H	1:123:A:ILE:HG22	10	0.35	0.07	0.36
(3,951)	1:80:A:LEU:HD11	1:124:A:SER:H	10	0.35	0.07	0.36
(3,1025)	1:102:A:THR:H	1:103:A:ILE:H	10	0.35	0.03	0.35
(1,2888)	1:70:A:ILE:H	1:69:A:VAL:HG21	10	0.35	0.12	0.29
(1,2888)	1:70:A:ILE:H	1:69:A:VAL:HG22	10	0.35	0.12	0.29
(1,2888)	1:70:A:ILE:H	1:69:A:VAL:HG23	10	0.35	0.12	0.29
(1,3278)	1:28:A:LEU:H	1:28:A:LEU:HD11	10	0.35	0.1	0.36
(1,3278)	1:28:A:LEU:H	1:28:A:LEU:HD12	10	0.35	0.1	0.36
(1,3278)	1:28:A:LEU:H	1:28:A:LEU:HD13	10	0.35	0.1	0.36
(1,178)	1:17:A:PRO:HA	1:39:A:VAL:HG21	10	0.35	0.09	0.36
(1,178)	1:17:A:PRO:HA	1:39:A:VAL:HG22	10	0.35	0.09	0.36
(1,178)	1:17:A:PRO:HA	1:39:A:VAL:HG23	10	0.35	0.09	0.36
(1,859)	1:37:A:ALA:HA	1:53:A:ILE:HD11	10	0.34	0.14	0.36
(1,859)	1:37:A:ALA:HA	1:53:A:ILE:HD12	10	0.34	0.14	0.36
(1,859)	1:37:A:ALA:HA	1:53:A:ILE:HD13	10	0.34	0.14	0.36
(1,1062)	1:65:A:HIS:HB3	1:61:A:LEU:HB2	10	0.34	0.12	0.36
(1,2969)	1:63:A:GLN:H	1:63:A:GLN:HB2	10	0.34	0.0	0.34
(2,362)	1:84:A:TYR:HB3	1:103:A:ILE:HG13	10	0.34	0.16	0.28
(1,311)	1:21:A:VAL:HG21	1:21:A:VAL:HA	10	0.34	0.0	0.34
(1,311)	1:21:A:VAL:HG22	1:21:A:VAL:HA	10	0.34	0.0	0.34
(1,311)	1:21:A:VAL:HG23	1:21:A:VAL:HA	10	0.34	0.0	0.34
(1,2467)	1:113:A:ARG:H	1:105:A:ILE:HG13	10	0.34	0.18	0.29
(1,52)	1:61:A:LEU:HD11	1:25:A:THR:HB	10	0.34	0.12	0.39

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,52)	1:61:A:LEU:HD12	1:25:A:THR:HB	10	0.34	0.12	0.39
(1,52)	1:61:A:LEU:HD13	1:25:A:THR:HB	10	0.34	0.12	0.39
(3,342)	1:113:A:ARG:HB2	1:114:A:ARG:H	10	0.33	0.02	0.33
(1,1176)	1:70:A:ILE:H	1:70:A:ILE:HG13	10	0.33	0.04	0.34
(1,3089)	1:48:A:ALA:H	1:63:A:GLN:HA	10	0.33	0.1	0.32
(1,571)	1:39:A:VAL:HG11	1:50:A:VAL:HA	10	0.33	0.05	0.34
(1,571)	1:39:A:VAL:HG12	1:50:A:VAL:HA	10	0.33	0.05	0.34
(1,571)	1:39:A:VAL:HG13	1:50:A:VAL:HA	10	0.33	0.05	0.34
(3,264)	1:77:A:ILE:H	1:91:A:LEU:H	10	0.32	0.08	0.32
(1,3077)	1:49:A:VAL:H	1:43:A:ILE:H	10	0.32	0.06	0.34
(1,143)	1:15:A:LEU:HD11	1:63:A:GLN:HB2	10	0.32	0.07	0.3
(1,143)	1:15:A:LEU:HD12	1:63:A:GLN:HB2	10	0.32	0.07	0.3
(1,143)	1:15:A:LEU:HD13	1:63:A:GLN:HB2	10	0.32	0.07	0.3
(3,211)	1:118:A:ILE:H	1:116:A:GLU:HB3	10	0.32	0.22	0.2
(1,1765)	1:105:A:ILE:HG21	1:87:A:ASN:HB2	10	0.32	0.1	0.35
(1,1765)	1:105:A:ILE:HG22	1:87:A:ASN:HB2	10	0.32	0.1	0.35
(1,1765)	1:105:A:ILE:HG23	1:87:A:ASN:HB2	10	0.32	0.1	0.35
(3,1142)	1:109:A:PRO:HB2	1:109:A:PRO:HD3	10	0.32	0.04	0.32
(3,1142)	1:17:A:PRO:HD2	1:16:A:GLN:HG2	10	0.32	0.04	0.32
(3,732)	1:48:A:ALA:HB2	1:43:A:ILE:H	10	0.31	0.09	0.36
(3,732)	1:43:A:ILE:H	1:43:A:ILE:HG12	10	0.31	0.09	0.36
(3,732)	1:48:A:ALA:HB3	1:43:A:ILE:H	10	0.31	0.09	0.36
(1,2592)	1:97:A:LYS:HB3	1:100:A:SER:H	10	0.31	0.14	0.31
(3,1135)	1:79:A:VAL:H	1:123:A:ILE:HG23	10	0.31	0.1	0.31
(3,1135)	1:79:A:VAL:H	1:123:A:ILE:HG21	10	0.31	0.1	0.31
(3,1135)	1:79:A:VAL:H	1:123:A:ILE:HG22	10	0.31	0.1	0.31
(1,3575)	1:87:A:ASN:H	1:87:A:ASN:HD22	10	0.31	0.13	0.28
(3,192)	1:58:A:LYS:HA	1:58:A:LYS:HB3	10	0.3	0.01	0.3
(3,602)	1:61:A:LEU:HG	1:61:A:LEU:HD11	10	0.3	0.01	0.3
(3,602)	1:61:A:LEU:HG	1:61:A:LEU:HD12	10	0.3	0.01	0.3
(3,602)	1:61:A:LEU:HG	1:61:A:LEU:HD13	10	0.3	0.01	0.3
(1,548)	1:39:A:VAL:HA	1:50:A:VAL:HB	10	0.3	0.1	0.32
(3,197)	1:60:A:LYS:HB3	1:60:A:LYS:HA	10	0.3	0.0	0.3
(1,2736)	1:79:A:VAL:HG21	1:87:A:ASN:H	10	0.3	0.1	0.31
(1,2736)	1:79:A:VAL:HG22	1:87:A:ASN:H	10	0.3	0.1	0.31
(1,2736)	1:79:A:VAL:HG23	1:87:A:ASN:H	10	0.3	0.1	0.31
(1,266)	1:127:A:ALA:H	1:19:A:ILE:HG21	10	0.3	0.15	0.23
(1,266)	1:127:A:ALA:H	1:19:A:ILE:HG22	10	0.3	0.15	0.23
(1,266)	1:127:A:ALA:H	1:19:A:ILE:HG23	10	0.3	0.15	0.23
(2,593)	1:66:A:LEU:HB3	1:14:A:TRP:HE1	10	0.29	0.07	0.3
(3,1210)	1:104:A:VAL:HG11	1:104:A:VAL:HG22	10	0.29	0.01	0.29
(3,1210)	1:104:A:VAL:HG13	1:104:A:VAL:HG22	10	0.29	0.01	0.29

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,1210)	1:104:A:VAL:HG11	1:104:A:VAL:HG23	10	0.29	0.01	0.29
(3,1210)	1:104:A:VAL:HG13	1:104:A:VAL:HG23	10	0.29	0.01	0.29
(3,1210)	1:104:A:VAL:HG13	1:104:A:VAL:HG21	10	0.29	0.01	0.29
(3,1210)	1:104:A:VAL:HG12	1:104:A:VAL:HG22	10	0.29	0.01	0.29
(3,1210)	1:104:A:VAL:HG12	1:104:A:VAL:HG23	10	0.29	0.01	0.29
(1,3643)	1:13:A:TYR:H	1:63:A:GLN:HE21	10	0.29	0.08	0.32
(1,1970)	1:119:A:GLN:HA	1:119:A:GLN:HB2	10	0.28	0.01	0.28
(3,1030)	1:36:A:LYS:H	1:37:A:ALA:H	10	0.28	0.04	0.29
(3,1030)	1:53:A:ILE:H	1:37:A:ALA:H	10	0.28	0.04	0.29
(1,2275)	1:21:A:VAL:HG21	1:22:A:LYS:H	10	0.28	0.06	0.28
(1,2275)	1:21:A:VAL:HG22	1:22:A:LYS:H	10	0.28	0.06	0.28
(1,2275)	1:21:A:VAL:HG23	1:22:A:LYS:H	10	0.28	0.06	0.28
(1,660)	1:15:A:LEU:H	1:42:A:VAL:HG21	10	0.28	0.17	0.2
(1,660)	1:15:A:LEU:H	1:42:A:VAL:HG22	10	0.28	0.17	0.2
(1,660)	1:15:A:LEU:H	1:42:A:VAL:HG23	10	0.28	0.17	0.2
(1,2436)	1:115:A:VAL:HB	1:116:A:GLU:H	10	0.28	0.07	0.26
(1,2240)	1:79:A:VAL:HG11	1:123:A:ILE:HG21	10	0.28	0.09	0.28
(1,2240)	1:79:A:VAL:HG11	1:123:A:ILE:HG22	10	0.28	0.09	0.28
(1,2240)	1:79:A:VAL:HG11	1:123:A:ILE:HG23	10	0.28	0.09	0.28
(1,2240)	1:79:A:VAL:HG12	1:123:A:ILE:HG21	10	0.28	0.09	0.28
(1,2240)	1:79:A:VAL:HG12	1:123:A:ILE:HG22	10	0.28	0.09	0.28
(1,2240)	1:79:A:VAL:HG12	1:123:A:ILE:HG23	10	0.28	0.09	0.28
(1,2240)	1:79:A:VAL:HG13	1:123:A:ILE:HG21	10	0.28	0.09	0.28
(1,2240)	1:79:A:VAL:HG13	1:123:A:ILE:HG22	10	0.28	0.09	0.28
(1,2240)	1:79:A:VAL:HG13	1:123:A:ILE:HG23	10	0.28	0.09	0.28
(1,1629)	1:99:A:PHE:H	1:99:A:PHE:HB3	10	0.27	0.02	0.28
(1,1882)	1:113:A:ARG:HA	1:113:A:ARG:HD2	10	0.27	0.07	0.28
(1,2807)	1:79:A:VAL:HG11	1:80:A:LEU:H	10	0.27	0.03	0.27
(1,2807)	1:79:A:VAL:HG12	1:80:A:LEU:H	10	0.27	0.03	0.27
(1,2807)	1:79:A:VAL:HG13	1:80:A:LEU:H	10	0.27	0.03	0.27
(1,2442)	1:103:A:ILE:H	1:116:A:GLU:H	10	0.27	0.06	0.25
(3,426)	1:119:A:GLN:HA	1:100:A:SER:H	10	0.27	0.12	0.22
(1,2382)	1:120:A:TYR:H	1:119:A:GLN:HB2	10	0.27	0.08	0.23
(1,2590)	1:100:A:SER:H	1:99:A:PHE:HB2	10	0.27	0.04	0.27
(3,423)	1:61:A:LEU:HD13	1:25:A:THR:H	10	0.26	0.12	0.26
(3,423)	1:61:A:LEU:HD11	1:25:A:THR:H	10	0.26	0.12	0.26
(3,423)	1:61:A:LEU:HD12	1:25:A:THR:H	10	0.26	0.12	0.26
(1,970)	1:61:A:LEU:HB2	1:62:A:ASP:H	10	0.26	0.05	0.27
(1,1338)	1:79:A:VAL:HG11	1:79:A:VAL:HA	10	0.26	0.0	0.26
(1,1338)	1:79:A:VAL:HG12	1:79:A:VAL:HA	10	0.26	0.0	0.26
(1,1338)	1:79:A:VAL:HG13	1:79:A:VAL:HA	10	0.26	0.0	0.26
(3,970)	1:100:A:SER:H	1:101:A:ALA:H	10	0.26	0.02	0.26

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,223)	1:99:A:PHE:H	1:99:A:PHE:HB3	10	0.26	0.01	0.26
(3,855)	1:17:A:PRO:HD3	1:16:A:GLN:HB2	10	0.25	0.09	0.24
(3,855)	1:17:A:PRO:HD2	1:16:A:GLN:HB2	10	0.25	0.09	0.24
(1,619)	1:42:A:VAL:HG11	1:41:A:GLU:HA	10	0.25	0.06	0.22
(1,619)	1:42:A:VAL:HG12	1:41:A:GLU:HA	10	0.25	0.06	0.22
(1,619)	1:42:A:VAL:HG13	1:41:A:GLU:HA	10	0.25	0.06	0.22
(1,699)	1:43:A:ILE:HG12	1:43:A:ILE:HA	10	0.25	0.01	0.26
(1,2477)	1:110:A:LEU:HB3	1:111:A:LYS:H	10	0.25	0.07	0.23
(3,662)	1:120:A:TYR:HA	1:120:A:TYR:HB2	10	0.25	0.0	0.25
(1,558)	1:48:A:ALA:HB1	1:39:A:VAL:HB	10	0.25	0.09	0.26
(1,558)	1:48:A:ALA:HB2	1:39:A:VAL:HB	10	0.25	0.09	0.26
(1,558)	1:48:A:ALA:HB3	1:39:A:VAL:HB	10	0.25	0.09	0.26
(1,918)	1:60:A:LYS:HB2	1:59:A:LEU:HA	10	0.24	0.05	0.22
(3,109)	1:3:A:GLU:HB3	1:3:A:GLU:HG2	10	0.24	0.02	0.24
(3,109)	1:4:A:GLU:HB3	1:4:A:GLU:HG2	10	0.24	0.02	0.24
(3,109)	1:4:A:GLU:HB3	1:4:A:GLU:HG3	10	0.24	0.02	0.24
(3,109)	1:3:A:GLU:HB2	1:3:A:GLU:HG3	10	0.24	0.02	0.24
(3,109)	1:2:A:GLU:HB3	1:2:A:GLU:HG2	10	0.24	0.02	0.24
(3,109)	1:4:A:GLU:HB2	1:4:A:GLU:HG3	10	0.24	0.02	0.24
(1,2404)	1:119:A:GLN:HB3	1:119:A:GLN:H	10	0.24	0.02	0.25
(1,629)	1:104:A:VAL:HB	1:104:A:VAL:H	10	0.24	0.06	0.22
(1,2124)	1:123:A:ILE:HD11	1:101:A:ALA:HA	10	0.24	0.05	0.24
(1,2124)	1:123:A:ILE:HD12	1:101:A:ALA:HA	10	0.24	0.05	0.24
(1,2124)	1:123:A:ILE:HD13	1:101:A:ALA:HA	10	0.24	0.05	0.24
(3,928)	1:120:A:TYR:HA	1:123:A:ILE:HG21	10	0.24	0.07	0.22
(3,928)	1:120:A:TYR:HA	1:123:A:ILE:HG22	10	0.24	0.07	0.22
(3,928)	1:94:A:ILE:HG23	1:91:A:LEU:HA	10	0.24	0.07	0.22
(3,928)	1:94:A:ILE:HG22	1:91:A:LEU:HA	10	0.24	0.07	0.22
(1,957)	1:60:A:LYS:HB3	1:59:A:LEU:HA	10	0.23	0.04	0.24
(1,2898)	1:69:A:VAL:H	1:69:A:VAL:HB	10	0.23	0.02	0.24
(1,1408)	1:84:A:TYR:HB2	1:84:A:TYR:HA	10	0.23	0.0	0.23
(3,973)	1:20:A:ILE:HG21	1:21:A:VAL:H	10	0.23	0.06	0.21
(3,973)	1:20:A:ILE:HG22	1:21:A:VAL:H	10	0.23	0.06	0.21
(3,973)	1:20:A:ILE:HG23	1:21:A:VAL:H	10	0.23	0.06	0.21
(3,815)	1:123:A:ILE:HG12	1:123:A:ILE:HA	10	0.23	0.02	0.22
(3,121)	1:38:A:ILE:HB	1:38:A:ILE:HG23	10	0.22	0.01	0.22
(3,121)	1:38:A:ILE:HB	1:38:A:ILE:HG22	10	0.22	0.01	0.22
(3,121)	1:38:A:ILE:HB	1:38:A:ILE:HG21	10	0.22	0.01	0.22
(1,35)	1:113:A:ARG:HG3	1:114:A:ARG:H	10	0.22	0.09	0.18
(3,388)	1:73:A:PRO:HB2	1:73:A:PRO:HA	10	0.22	0.0	0.22
(3,864)	1:53:A:ILE:HG23	1:53:A:ILE:HB	10	0.22	0.01	0.22
(3,864)	1:53:A:ILE:HG22	1:53:A:ILE:HB	10	0.22	0.01	0.22

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,864)	1:53:A:ILE:HG21	1:53:A:ILE:HB	10	0.22	0.01	0.22
(3,107)	1:60:A:LYS:HD2	1:60:A:LYS:HE2	10	0.22	0.02	0.22
(1,1144)	1:68:A:THR:HA	1:69:A:VAL:HG11	10	0.22	0.05	0.21
(1,1144)	1:68:A:THR:HA	1:69:A:VAL:HG12	10	0.22	0.05	0.21
(1,1144)	1:68:A:THR:HA	1:69:A:VAL:HG13	10	0.22	0.05	0.21
(1,1731)	1:105:A:ILE:HG13	1:105:A:ILE:HA	10	0.21	0.01	0.21
(1,1104)	1:67:A:GLU:HA	1:67:A:GLU:HG2	10	0.21	0.04	0.22
(1,2767)	1:84:A:TYR:HB3	1:84:A:TYR:H	10	0.2	0.02	0.21
(1,780)	1:15:A:LEU:HA	1:48:A:ALA:HB1	10	0.2	0.05	0.21
(1,780)	1:15:A:LEU:HA	1:48:A:ALA:HB2	10	0.2	0.05	0.21
(1,780)	1:15:A:LEU:HA	1:48:A:ALA:HB3	10	0.2	0.05	0.21
(1,3670)	1:48:A:ALA:H	1:42:A:VAL:HA	10	0.2	0.05	0.2
(1,1459)	1:87:A:ASN:H	1:87:A:ASN:HB3	10	0.2	0.03	0.19
(1,1313)	1:77:A:ILE:H	1:77:A:ILE:HG12	10	0.2	0.04	0.22
(1,1036)	1:64:A:THR:HA	1:64:A:THR:HB	10	0.2	0.02	0.18
(1,1209)	1:73:A:PRO:HD2	1:72:A:ALA:HA	10	0.2	0.07	0.18
(3,545)	1:49:A:VAL:HG12	1:49:A:VAL:HA	10	0.19	0.03	0.18
(3,545)	1:49:A:VAL:HG13	1:49:A:VAL:HA	10	0.19	0.03	0.18
(3,545)	1:49:A:VAL:HG11	1:49:A:VAL:HA	10	0.19	0.03	0.18
(1,3792)	1:14:A:TRP:HD1	1:14:A:TRP:HB2	10	0.19	0.01	0.19
(1,1610)	1:98:A:THR:H	1:98:A:THR:HA	10	0.19	0.01	0.19
(1,2328)	1:126:A:LEU:H	1:125:A:LYS:H	10	0.18	0.04	0.2
(3,409)	1:96:A:GLU:HB2	1:96:A:GLU:HG3	10	0.17	0.01	0.18
(1,1688)	1:103:A:ILE:HB	1:103:A:ILE:H	10	0.17	0.02	0.18
(1,2930)	1:66:A:LEU:H	1:65:A:HIS:HB3	10	0.17	0.04	0.19
(3,353)	1:28:A:LEU:HD22	1:28:A:LEU:HB3	10	0.17	0.03	0.16
(3,353)	1:61:A:LEU:HD21	1:61:A:LEU:HB3	10	0.17	0.03	0.16
(3,353)	1:61:A:LEU:HD23	1:61:A:LEU:HB3	10	0.17	0.03	0.16
(3,353)	1:28:A:LEU:HD21	1:28:A:LEU:HB3	10	0.17	0.03	0.16
(3,353)	1:61:A:LEU:HD22	1:61:A:LEU:HB3	10	0.17	0.03	0.16
(3,353)	1:28:A:LEU:HD23	1:28:A:LEU:HB3	10	0.17	0.03	0.16
(1,2775)	1:82:A:GLY:H	1:83:A:GLY:H	10	0.17	0.03	0.17
(1,877)	1:60:A:LYS:HD2	1:60:A:LYS:HA	10	0.16	0.03	0.17
(3,268)	1:125:A:LYS:HE2	1:125:A:LYS:HE3	10	0.16	0.0	0.16
(3,268)	1:75:A:LYS:HE3	1:75:A:LYS:HE2	10	0.16	0.0	0.16
(3,268)	1:51:A:LYS:HE3	1:51:A:LYS:HE2	10	0.16	0.0	0.16
(1,2529)	1:105:A:ILE:HG13	1:105:A:ILE:H	10	0.16	0.03	0.16
(1,2876)	1:73:A:PRO:HD2	1:72:A:ALA:H	10	0.16	0.01	0.16
(3,321)	1:118:A:ILE:HG12	1:118:A:ILE:HD12	10	0.15	0.0	0.15
(3,321)	1:118:A:ILE:HG12	1:118:A:ILE:HD13	10	0.15	0.0	0.15
(3,321)	1:28:A:LEU:HD11	1:28:A:LEU:HG	10	0.15	0.0	0.15
(3,321)	1:28:A:LEU:HD12	1:28:A:LEU:HG	10	0.15	0.0	0.15

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,321)	1:118:A:ILE:HG12	1:118:A:ILE:HD11	10	0.15	0.0	0.15
(1,430)	1:91:A:LEU:HD11	1:91:A:LEU:HD21	10	0.15	0.01	0.15
(1,430)	1:91:A:LEU:HD11	1:91:A:LEU:HD22	10	0.15	0.01	0.15
(1,430)	1:91:A:LEU:HD11	1:91:A:LEU:HD23	10	0.15	0.01	0.15
(1,430)	1:91:A:LEU:HD12	1:91:A:LEU:HD21	10	0.15	0.01	0.15
(1,430)	1:91:A:LEU:HD12	1:91:A:LEU:HD22	10	0.15	0.01	0.15
(1,430)	1:91:A:LEU:HD12	1:91:A:LEU:HD23	10	0.15	0.01	0.15
(1,430)	1:91:A:LEU:HD13	1:91:A:LEU:HD21	10	0.15	0.01	0.15
(1,430)	1:91:A:LEU:HD13	1:91:A:LEU:HD22	10	0.15	0.01	0.15
(1,430)	1:91:A:LEU:HD13	1:91:A:LEU:HD23	10	0.15	0.01	0.15
(3,823)	1:123:A:ILE:HG13	1:123:A:ILE:HG21	10	0.14	0.01	0.15
(3,823)	1:123:A:ILE:HG13	1:123:A:ILE:HG22	10	0.14	0.01	0.15
(3,823)	1:123:A:ILE:HG13	1:123:A:ILE:HG23	10	0.14	0.01	0.15
(1,797)	1:50:A:VAL:HB	1:50:A:VAL:H	10	0.14	0.02	0.14
(3,655)	1:26:A:LYS:HG2	1:26:A:LYS:HD3	10	0.14	0.01	0.15
(3,655)	1:28:A:LEU:HD22	1:28:A:LEU:HG	10	0.14	0.01	0.15
(3,655)	1:28:A:LEU:HD23	1:28:A:LEU:HG	10	0.14	0.01	0.15
(3,655)	1:28:A:LEU:HD21	1:28:A:LEU:HG	10	0.14	0.01	0.15
(3,655)	1:26:A:LYS:HG3	1:26:A:LYS:HD2	10	0.14	0.01	0.15
(3,60)	1:53:A:ILE:HG23	1:53:A:ILE:HB	10	0.14	0.01	0.14
(3,60)	1:53:A:ILE:HG22	1:53:A:ILE:HB	10	0.14	0.01	0.14
(3,60)	1:53:A:ILE:HG21	1:53:A:ILE:HB	10	0.14	0.01	0.14
(1,2215)	1:103:A:ILE:HA	1:103:A:ILE:HD11	10	0.13	0.01	0.13
(1,2215)	1:103:A:ILE:HA	1:103:A:ILE:HD12	10	0.13	0.01	0.13
(1,2215)	1:103:A:ILE:HA	1:103:A:ILE:HD13	10	0.13	0.01	0.13
(3,756)	1:103:A:ILE:HG13	1:103:A:ILE:HA	10	0.12	0.0	0.12
(1,3456)	1:16:A:GLN:HG3	1:16:A:GLN:HE22	10	0.12	0.01	0.12
(3,98)	1:96:A:GLU:HB3	1:96:A:GLU:HB2	10	0.1	0.0	0.1
(3,98)	1:2:A:GLU:HB2	1:2:A:GLU:HB3	10	0.1	0.0	0.1
(3,98)	1:3:A:GLU:HB3	1:3:A:GLU:HB2	10	0.1	0.0	0.1
(1,547)	1:40:A:LYS:HE2	1:38:A:ILE:HB	9	1.93	0.73	2.12
(1,3018)	1:52:A:MET:HG2	1:57:A:ASP:H	9	1.47	0.68	1.17
(1,2384)	1:120:A:TYR:H	1:121:A:GLU:HB2	9	1.2	0.04	1.19
(2,349)	1:118:A:ILE:HG12	1:84:A:TYR:HB3	9	1.2	0.3	1.15
(1,2153)	1:118:A:ILE:HA	1:100:A:SER:HB2	9	1.14	0.19	1.11
(2,249)	1:92:A:GLU:HG3	1:93:A:SER:HB2	9	1.06	0.06	1.08
(1,2366)	1:121:A:GLU:H	1:121:A:GLU:HB2	9	0.85	0.02	0.85
(1,1527)	1:93:A:SER:H	1:91:A:LEU:HG	9	0.82	0.27	0.81
(1,1529)	1:73:A:PRO:HA	1:91:A:LEU:HG	9	0.8	0.08	0.77
(1,2223)	1:119:A:GLN:H	1:100:A:SER:HB2	9	0.78	0.19	0.72
(1,1869)	1:119:A:GLN:HA	1:100:A:SER:HB2	9	0.7	0.04	0.72
(3,1172)	1:118:A:ILE:HG12	1:103:A:ILE:HG13	9	0.6	0.13	0.57

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,1172)	1:118:A:ILE:HG12	1:118:A:ILE:HG22	9	0.6	0.13	0.57
(1,3778)	1:45:A:LYS:HB3	1:46:A:TYR:HD1	9	0.6	0.31	0.51
(1,3778)	1:45:A:LYS:HB3	1:46:A:TYR:HD2	9	0.6	0.31	0.51
(1,588)	1:53:A:ILE:HA	1:38:A:ILE:HG12	9	0.58	0.22	0.5
(1,1532)	1:93:A:SER:HA	1:73:A:PRO:HG2	9	0.57	0.14	0.5
(1,1996)	1:121:A:GLU:H	1:121:A:GLU:HB2	9	0.52	0.02	0.53
(3,863)	1:113:A:ARG:HD3	1:103:A:ILE:HD11	9	0.51	0.19	0.55
(3,863)	1:113:A:ARG:HD3	1:103:A:ILE:HD13	9	0.51	0.19	0.55
(3,863)	1:113:A:ARG:HD3	1:103:A:ILE:HD12	9	0.51	0.19	0.55
(1,717)	1:45:A:LYS:HA	1:45:A:LYS:HG3	9	0.51	0.13	0.54
(1,1888)	1:76:A:ARG:HD2	1:90:A:THR:HG21	9	0.48	0.32	0.41
(1,1888)	1:76:A:ARG:HD2	1:90:A:THR:HG22	9	0.48	0.32	0.41
(1,1888)	1:76:A:ARG:HD2	1:90:A:THR:HG23	9	0.48	0.32	0.41
(1,1220)	1:73:A:PRO:HA	1:91:A:LEU:HB2	9	0.48	0.11	0.47
(1,2441)	1:84:A:TYR:HE1	1:116:A:GLU:H	9	0.48	0.22	0.5
(1,2441)	1:84:A:TYR:HE2	1:116:A:GLU:H	9	0.48	0.22	0.5
(1,2709)	1:103:A:ILE:HB	1:89:A:GLY:H	9	0.48	0.08	0.5
(3,1157)	1:80:A:LEU:HD11	1:14:A:TRP:HZ3	9	0.46	0.13	0.47
(3,1157)	1:80:A:LEU:HD13	1:14:A:TRP:HZ3	9	0.46	0.13	0.47
(3,1157)	1:80:A:LEU:HD12	1:14:A:TRP:HZ3	9	0.46	0.13	0.47
(1,1641)	1:117:A:GLY:HA3	1:100:A:SER:HB2	9	0.46	0.26	0.38
(1,711)	1:45:A:LYS:H	1:44:A:ASP:HB2	9	0.46	0.12	0.49
(1,3697)	1:68:A:THR:H	1:14:A:TRP:HE1	9	0.45	0.16	0.45
(3,1042)	1:19:A:ILE:HA	1:127:A:ALA:HA	9	0.45	0.15	0.41
(1,1640)	1:119:A:GLN:HA	1:100:A:SER:HB2	9	0.44	0.04	0.46
(3,1164)	1:26:A:LYS:HG3	1:29:A:GLY:H	9	0.44	0.21	0.39
(3,1164)	1:28:A:LEU:HD22	1:29:A:GLY:H	9	0.44	0.21	0.39
(3,1164)	1:28:A:LEU:HD21	1:29:A:GLY:H	9	0.44	0.21	0.39
(1,2238)	1:76:A:ARG:HD2	1:90:A:THR:HA	9	0.43	0.15	0.42
(1,2749)	1:85:A:ARG:HG3	1:86:A:GLY:H	9	0.43	0.12	0.44
(3,634)	1:103:A:ILE:HG12	1:104:A:VAL:H	9	0.41	0.13	0.37
(3,634)	1:77:A:ILE:HG12	1:104:A:VAL:H	9	0.41	0.13	0.37
(1,384)	1:24:A:ILE:HD11	1:65:A:HIS:H	9	0.39	0.12	0.39
(1,384)	1:24:A:ILE:HD12	1:65:A:HIS:H	9	0.39	0.12	0.39
(1,384)	1:24:A:ILE:HD13	1:65:A:HIS:H	9	0.39	0.12	0.39
(1,1953)	1:118:A:ILE:HG13	1:118:A:ILE:HA	9	0.39	0.02	0.38
(1,440)	1:111:A:LYS:HD2	1:107:A:THR:HA	9	0.37	0.14	0.35
(3,403)	1:113:A:ARG:HB2	1:105:A:ILE:H	9	0.37	0.15	0.36
(1,2608)	1:97:A:LYS:HB3	1:98:A:THR:H	9	0.35	0.08	0.33
(3,843)	1:40:A:LYS:HA	1:40:A:LYS:HB2	9	0.33	0.0	0.33
(3,843)	1:75:A:LYS:HB2	1:75:A:LYS:HA	9	0.33	0.0	0.33
(1,2418)	1:118:A:ILE:HG13	1:118:A:ILE:H	9	0.32	0.04	0.33

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,855)	1:37:A:ALA:H	1:53:A:ILE:HD11	9	0.32	0.09	0.29
(1,855)	1:37:A:ALA:H	1:53:A:ILE:HD12	9	0.32	0.09	0.29
(1,855)	1:37:A:ALA:H	1:53:A:ILE:HD13	9	0.32	0.09	0.29
(3,640)	1:120:A:TYR:HA	1:120:A:TYR:H	9	0.31	0.02	0.32
(3,640)	1:6:A:LYS:HA	1:6:A:LYS:H	9	0.31	0.02	0.32
(3,640)	1:4:A:GLU:HA	1:5:A:LYS:H	9	0.31	0.02	0.32
(1,3866)	1:120:A:TYR:HE1	1:99:A:PHE:H	9	0.31	0.14	0.26
(1,3866)	1:120:A:TYR:HE2	1:99:A:PHE:H	9	0.31	0.14	0.26
(1,662)	1:45:A:LYS:HA	1:42:A:VAL:HG21	9	0.31	0.09	0.29
(1,662)	1:45:A:LYS:HA	1:42:A:VAL:HG22	9	0.31	0.09	0.29
(1,662)	1:45:A:LYS:HA	1:42:A:VAL:HG23	9	0.31	0.09	0.29
(1,2473)	1:105:A:ILE:HD11	1:111:A:LYS:H	9	0.31	0.1	0.28
(1,2473)	1:105:A:ILE:HD12	1:111:A:LYS:H	9	0.31	0.1	0.28
(1,2473)	1:105:A:ILE:HD13	1:111:A:LYS:H	9	0.31	0.1	0.28
(1,2032)	1:78:A:LEU:H	1:123:A:ILE:HG21	9	0.3	0.1	0.26
(1,2032)	1:78:A:LEU:H	1:123:A:ILE:HG22	9	0.3	0.1	0.26
(1,2032)	1:78:A:LEU:H	1:123:A:ILE:HG23	9	0.3	0.1	0.26
(1,3676)	1:49:A:VAL:H	1:43:A:ILE:HB	9	0.3	0.1	0.29
(1,2358)	1:122:A:ASP:H	1:121:A:GLU:HB2	9	0.27	0.09	0.28
(3,885)	1:69:A:VAL:HG23	1:125:A:LYS:HB2	9	0.27	0.03	0.28
(3,885)	1:69:A:VAL:HG21	1:69:A:VAL:HB	9	0.27	0.03	0.28
(3,885)	1:69:A:VAL:HG21	1:125:A:LYS:HB2	9	0.27	0.03	0.28
(3,885)	1:69:A:VAL:HG22	1:69:A:VAL:HB	9	0.27	0.03	0.28
(3,885)	1:69:A:VAL:HG22	1:125:A:LYS:HB2	9	0.27	0.03	0.28
(1,869)	1:94:A:ILE:HD11	1:120:A:TYR:HE1	9	0.26	0.1	0.32
(1,869)	1:94:A:ILE:HD11	1:120:A:TYR:HE2	9	0.26	0.1	0.32
(1,869)	1:94:A:ILE:HD12	1:120:A:TYR:HE1	9	0.26	0.1	0.32
(1,869)	1:94:A:ILE:HD12	1:120:A:TYR:HE2	9	0.26	0.1	0.32
(1,869)	1:94:A:ILE:HD13	1:120:A:TYR:HE1	9	0.26	0.1	0.32
(1,869)	1:94:A:ILE:HD13	1:120:A:TYR:HE2	9	0.26	0.1	0.32
(1,2110)	1:126:A:LEU:HB3	1:77:A:ILE:HG21	9	0.26	0.12	0.21
(1,2110)	1:126:A:LEU:HB3	1:77:A:ILE:HG22	9	0.26	0.12	0.21
(1,2110)	1:126:A:LEU:HB3	1:77:A:ILE:HG23	9	0.26	0.12	0.21
(1,3855)	1:120:A:TYR:H	1:120:A:TYR:HE1	9	0.26	0.06	0.28
(1,3855)	1:120:A:TYR:H	1:120:A:TYR:HE2	9	0.26	0.06	0.28
(1,1277)	1:97:A:LYS:HB3	1:98:A:THR:H	9	0.26	0.08	0.24
(1,2211)	1:84:A:TYR:HE1	1:103:A:ILE:HD11	9	0.25	0.09	0.24
(1,2211)	1:84:A:TYR:HE1	1:103:A:ILE:HD12	9	0.25	0.09	0.24
(1,2211)	1:84:A:TYR:HE1	1:103:A:ILE:HD13	9	0.25	0.09	0.24
(1,2211)	1:84:A:TYR:HE2	1:103:A:ILE:HD11	9	0.25	0.09	0.24
(1,2211)	1:84:A:TYR:HE2	1:103:A:ILE:HD12	9	0.25	0.09	0.24
(1,2211)	1:84:A:TYR:HE2	1:103:A:ILE:HD13	9	0.25	0.09	0.24

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3040)	1:54:A:ASP:H	1:53:A:ILE:HG21	9	0.25	0.12	0.18
(1,3040)	1:54:A:ASP:H	1:53:A:ILE:HG22	9	0.25	0.12	0.18
(1,3040)	1:54:A:ASP:H	1:53:A:ILE:HG23	9	0.25	0.12	0.18
(1,3712)	1:87:A:ASN:HD21	1:84:A:TYR:H	9	0.24	0.1	0.26
(1,1537)	1:97:A:LYS:HB3	1:98:A:THR:H	9	0.24	0.09	0.22
(3,257)	1:53:A:ILE:H	1:53:A:ILE:HD12	9	0.24	0.08	0.25
(3,257)	1:53:A:ILE:H	1:53:A:ILE:HD11	9	0.24	0.08	0.25
(3,257)	1:53:A:ILE:H	1:53:A:ILE:HD13	9	0.24	0.08	0.25
(1,2454)	1:113:A:ARG:HD2	1:114:A:ARG:H	9	0.24	0.11	0.22
(1,2658)	1:91:A:LEU:HD11	1:94:A:ILE:H	9	0.24	0.12	0.22
(1,2658)	1:91:A:LEU:HD12	1:94:A:ILE:H	9	0.24	0.12	0.22
(1,2658)	1:91:A:LEU:HD13	1:94:A:ILE:H	9	0.24	0.12	0.22
(3,129)	1:77:A:ILE:HD12	1:123:A:ILE:HB	9	0.24	0.21	0.12
(3,129)	1:77:A:ILE:HD11	1:123:A:ILE:HB	9	0.24	0.21	0.12
(3,129)	1:77:A:ILE:HG21	1:123:A:ILE:HB	9	0.24	0.21	0.12
(3,129)	1:77:A:ILE:HD13	1:123:A:ILE:HB	9	0.24	0.21	0.12
(1,2732)	1:84:A:TYR:HB2	1:87:A:ASN:H	9	0.23	0.12	0.21
(1,2747)	1:85:A:ARG:HB3	1:86:A:GLY:H	9	0.23	0.05	0.23
(3,1128)	1:72:A:ALA:H	1:71:A:PRO:HB3	9	0.23	0.07	0.23
(3,1128)	1:75:A:LYS:HG2	1:72:A:ALA:H	9	0.23	0.07	0.23
(1,1950)	1:118:A:ILE:HA	1:101:A:ALA:H	9	0.23	0.08	0.2
(1,951)	1:60:A:LYS:HA	1:50:A:VAL:H	9	0.22	0.08	0.22
(1,1585)	1:94:A:ILE:HG21	1:101:A:ALA:HA	9	0.22	0.08	0.22
(1,1585)	1:94:A:ILE:HG22	1:101:A:ALA:HA	9	0.22	0.08	0.22
(1,1585)	1:94:A:ILE:HG23	1:101:A:ALA:HA	9	0.22	0.08	0.22
(1,1960)	1:118:A:ILE:HG13	1:118:A:ILE:H	9	0.22	0.04	0.23
(3,646)	1:85:A:ARG:H	1:83:A:GLY:H	9	0.21	0.06	0.22
(1,1070)	1:22:A:LYS:H	1:66:A:LEU:HA	9	0.2	0.06	0.19
(3,485)	1:127:A:ALA:H	1:126:A:LEU:HB3	9	0.19	0.05	0.22
(3,1182)	1:98:A:THR:HG23	1:98:A:THR:HA	9	0.19	0.07	0.18
(3,1182)	1:118:A:ILE:HG22	1:118:A:ILE:HA	9	0.19	0.07	0.18
(3,1182)	1:98:A:THR:HG21	1:98:A:THR:HA	9	0.19	0.07	0.18
(3,1182)	1:98:A:THR:HG22	1:98:A:THR:HA	9	0.19	0.07	0.18
(1,2630)	1:96:A:GLU:H	1:98:A:THR:H	9	0.18	0.04	0.18
(1,2588)	1:100:A:SER:H	1:100:A:SER:HB3	9	0.17	0.03	0.18
(1,3308)	1:23:A:ILE:H	1:23:A:ILE:HG12	9	0.15	0.02	0.14
(3,1057)	1:8:A:THR:HA	1:8:A:THR:HG22	9	0.15	0.02	0.15
(3,1057)	1:8:A:THR:HA	1:8:A:THR:HG21	9	0.15	0.02	0.15
(3,1057)	1:8:A:THR:HB	1:8:A:THR:HG22	9	0.15	0.02	0.15
(3,1057)	1:8:A:THR:HB	1:8:A:THR:HG21	9	0.15	0.02	0.15
(3,1057)	1:8:A:THR:HA	1:8:A:THR:HG23	9	0.15	0.02	0.15
(1,1635)	1:100:A:SER:HA	1:100:A:SER:HB2	9	0.15	0.02	0.15

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3544)	1:66:A:LEU:HD11	1:65:A:HIS:H	9	0.14	0.03	0.13
(1,3544)	1:66:A:LEU:HD12	1:65:A:HIS:H	9	0.14	0.03	0.13
(1,3544)	1:66:A:LEU:HD13	1:65:A:HIS:H	9	0.14	0.03	0.13
(1,102)	1:14:A:TRP:HB3	1:14:A:TRP:HE3	9	0.13	0.01	0.13
(3,310)	1:111:A:LYS:HD3	1:111:A:LYS:HG2	9	0.13	0.01	0.13
(3,310)	1:111:A:LYS:HD3	1:111:A:LYS:HG3	9	0.13	0.01	0.13
(3,310)	1:111:A:LYS:HD2	1:111:A:LYS:HG2	9	0.13	0.01	0.13
(3,310)	1:51:A:LYS:HD2	1:51:A:LYS:HG3	9	0.13	0.01	0.13
(3,310)	1:111:A:LYS:HD2	1:111:A:LYS:HG3	9	0.13	0.01	0.13
(3,844)	1:106:A:GLU:H	1:106:A:GLU:HA	9	0.13	0.0	0.13
(1,2103)	1:45:A:LYS:H	1:45:A:LYS:HG3	8	1.43	0.07	1.44
(1,924)	1:40:A:LYS:HE2	1:38:A:ILE:H	8	1.38	0.71	1.6
(1,1753)	1:115:A:VAL:HG11	1:105:A:ILE:HG13	8	1.1	0.73	1.52
(1,1753)	1:115:A:VAL:HG12	1:105:A:ILE:HG13	8	1.1	0.73	1.52
(1,1753)	1:115:A:VAL:HG13	1:105:A:ILE:HG13	8	1.1	0.73	1.52
(1,633)	1:41:A:GLU:HG3	1:43:A:ILE:HD11	8	1.06	0.4	0.98
(1,633)	1:41:A:GLU:HG3	1:43:A:ILE:HD12	8	1.06	0.4	0.98
(1,633)	1:41:A:GLU:HG3	1:43:A:ILE:HD13	8	1.06	0.4	0.98
(1,3121)	1:45:A:LYS:H	1:45:A:LYS:HG3	8	1.03	0.07	1.04
(1,836)	1:52:A:MET:HG2	1:32:A:TYR:HE1	8	0.8	0.23	0.77
(1,836)	1:52:A:MET:HG2	1:32:A:TYR:HE2	8	0.8	0.23	0.77
(1,673)	1:41:A:GLU:HG3	1:43:A:ILE:HA	8	0.79	0.31	0.76
(2,61)	1:26:A:LYS:HE2	1:24:A:ILE:HA	8	0.66	0.53	0.45
(1,456)	1:61:A:LEU:HD21	1:59:A:LEU:HD11	8	0.65	0.34	0.63
(1,456)	1:61:A:LEU:HD21	1:59:A:LEU:HD12	8	0.65	0.34	0.63
(1,456)	1:61:A:LEU:HD21	1:59:A:LEU:HD13	8	0.65	0.34	0.63
(1,456)	1:61:A:LEU:HD22	1:59:A:LEU:HD11	8	0.65	0.34	0.63
(1,456)	1:61:A:LEU:HD22	1:59:A:LEU:HD12	8	0.65	0.34	0.63
(1,456)	1:61:A:LEU:HD22	1:59:A:LEU:HD13	8	0.65	0.34	0.63
(1,456)	1:61:A:LEU:HD23	1:59:A:LEU:HD11	8	0.65	0.34	0.63
(1,456)	1:61:A:LEU:HD23	1:59:A:LEU:HD12	8	0.65	0.34	0.63
(1,456)	1:61:A:LEU:HD23	1:59:A:LEU:HD13	8	0.65	0.34	0.63
(1,2246)	1:13:A:TYR:HB3	1:45:A:LYS:HD2	8	0.64	0.28	0.73
(1,2246)	1:13:A:TYR:HB3	1:45:A:LYS:HD3	8	0.64	0.28	0.73
(1,1822)	1:110:A:LEU:H	1:109:A:PRO:HG2	8	0.63	0.08	0.63
(3,722)	1:45:A:LYS:H	1:44:A:ASP:HB2	8	0.62	0.11	0.65
(1,2781)	1:85:A:ARG:HD2	1:82:A:GLY:H	8	0.62	0.31	0.48
(1,1823)	1:110:A:LEU:H	1:109:A:PRO:HG2	8	0.48	0.08	0.48
(3,148)	1:73:A:PRO:HG2	1:93:A:SER:HB3	8	0.47	0.17	0.48
(1,2841)	1:111:A:LYS:HE3	1:112:A:GLY:H	8	0.43	0.13	0.38
(1,2841)	1:111:A:LYS:HE2	1:112:A:GLY:H	8	0.43	0.13	0.38
(3,304)	1:94:A:ILE:HB	1:70:A:ILE:HG21	8	0.41	0.16	0.4

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,304)	1:94:A:ILE:HB	1:70:A:ILE:HG22	8	0.41	0.16	0.4
(3,304)	1:94:A:ILE:HB	1:70:A:ILE:HG23	8	0.41	0.16	0.4
(3,1087)	1:61:A:LEU:HD21	1:59:A:LEU:HB3	8	0.41	0.17	0.38
(3,1087)	1:61:A:LEU:HD22	1:59:A:LEU:HB3	8	0.41	0.17	0.38
(3,1087)	1:61:A:LEU:HD23	1:59:A:LEU:HB3	8	0.41	0.17	0.38
(3,1087)	1:61:A:LEU:HD11	1:59:A:LEU:HB3	8	0.41	0.17	0.38
(3,1087)	1:61:A:LEU:HD12	1:59:A:LEU:HB3	8	0.41	0.17	0.38
(3,1087)	1:61:A:LEU:HD13	1:59:A:LEU:HB3	8	0.41	0.17	0.38
(1,453)	1:32:A:TYR:HD1	1:28:A:LEU:HD11	8	0.41	0.38	0.19
(1,453)	1:32:A:TYR:HD1	1:28:A:LEU:HD12	8	0.41	0.38	0.19
(1,453)	1:32:A:TYR:HD1	1:28:A:LEU:HD13	8	0.41	0.38	0.19
(1,453)	1:32:A:TYR:HD2	1:28:A:LEU:HD11	8	0.41	0.38	0.19
(1,453)	1:32:A:TYR:HD2	1:28:A:LEU:HD12	8	0.41	0.38	0.19
(1,453)	1:32:A:TYR:HD2	1:28:A:LEU:HD13	8	0.41	0.38	0.19
(3,293)	1:27:A:LYS:HG3	1:27:A:LYS:HA	8	0.4	0.05	0.39
(3,366)	1:42:A:VAL:HG21	1:16:A:GLN:HG2	8	0.37	0.19	0.31
(3,366)	1:42:A:VAL:HG23	1:16:A:GLN:HG2	8	0.37	0.19	0.31
(3,366)	1:16:A:GLN:HG2	1:39:A:VAL:HG12	8	0.37	0.19	0.31
(3,366)	1:42:A:VAL:HG22	1:16:A:GLN:HG2	8	0.37	0.19	0.31
(3,537)	1:85:A:ARG:HD2	1:82:A:GLY:H	8	0.36	0.13	0.35
(3,537)	1:76:A:ARG:H	1:76:A:ARG:HD2	8	0.36	0.13	0.35
(2,393)	1:73:A:PRO:HG2	1:70:A:ILE:HG21	8	0.35	0.15	0.36
(2,393)	1:73:A:PRO:HG2	1:70:A:ILE:HG22	8	0.35	0.15	0.36
(2,393)	1:73:A:PRO:HG2	1:70:A:ILE:HG23	8	0.35	0.15	0.36
(1,1535)	1:93:A:SER:HA	1:91:A:LEU:HG	8	0.34	0.24	0.26
(3,165)	1:79:A:VAL:HG12	1:88:A:GLU:HA	8	0.34	0.14	0.32
(3,165)	1:79:A:VAL:HG11	1:88:A:GLU:HA	8	0.34	0.14	0.32
(3,165)	1:79:A:VAL:HG13	1:88:A:GLU:HA	8	0.34	0.14	0.32
(3,758)	1:45:A:LYS:HB2	1:45:A:LYS:HD3	8	0.34	0.04	0.35
(3,758)	1:45:A:LYS:HB2	1:45:A:LYS:HD2	8	0.34	0.04	0.35
(1,2816)	1:85:A:ARG:HA	1:79:A:VAL:H	8	0.33	0.18	0.3
(3,1166)	1:118:A:ILE:HG13	1:103:A:ILE:H	8	0.32	0.16	0.26
(1,3208)	1:36:A:LYS:HG2	1:36:A:LYS:H	8	0.32	0.09	0.3
(1,695)	1:14:A:TRP:HB3	1:80:A:LEU:HD11	8	0.32	0.18	0.26
(1,695)	1:14:A:TRP:HB3	1:80:A:LEU:HD12	8	0.32	0.18	0.26
(1,695)	1:14:A:TRP:HB3	1:80:A:LEU:HD13	8	0.32	0.18	0.26
(1,387)	1:65:A:HIS:HA	1:24:A:ILE:HD11	8	0.3	0.09	0.33
(1,387)	1:65:A:HIS:HA	1:24:A:ILE:HD12	8	0.3	0.09	0.33
(1,387)	1:65:A:HIS:HA	1:24:A:ILE:HD13	8	0.3	0.09	0.33
(1,3718)	1:87:A:ASN:HD21	1:79:A:VAL:HB	8	0.3	0.07	0.3
(3,381)	1:45:A:LYS:H	1:44:A:ASP:HB3	8	0.29	0.12	0.26
(3,153)	1:91:A:LEU:HD11	1:102:A:THR:H	8	0.28	0.08	0.28

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,153)	1:123:A:ILE:HD13	1:102:A:THR:H	8	0.28	0.08	0.28
(3,153)	1:123:A:ILE:HD11	1:102:A:THR:H	8	0.28	0.08	0.28
(3,993)	1:61:A:LEU:HG	1:50:A:VAL:H	8	0.28	0.13	0.24
(3,993)	1:58:A:LYS:HG3	1:50:A:VAL:H	8	0.28	0.13	0.24
(1,1306)	1:77:A:ILE:HD11	1:90:A:THR:HA	8	0.28	0.14	0.2
(1,1306)	1:77:A:ILE:HD12	1:90:A:THR:HA	8	0.28	0.14	0.2
(1,1306)	1:77:A:ILE:HD13	1:90:A:THR:HA	8	0.28	0.14	0.2
(2,531)	1:69:A:VAL:H	1:71:A:PRO:HD2	8	0.28	0.14	0.3
(1,2397)	1:122:A:ASP:HA	1:119:A:GLN:H	8	0.26	0.16	0.2
(1,3245)	1:30:A:GLU:HG2	1:33:A:HIS:H	8	0.26	0.12	0.26
(1,3245)	1:30:A:GLU:HG3	1:33:A:HIS:H	8	0.26	0.12	0.26
(1,3547)	1:84:A:TYR:HB2	1:79:A:VAL:H	8	0.26	0.09	0.29
(3,595)	1:105:A:ILE:HB	1:106:A:GLU:H	8	0.26	0.05	0.24
(3,595)	1:106:A:GLU:HG3	1:106:A:GLU:H	8	0.26	0.05	0.24
(1,1351)	1:48:A:ALA:HB1	1:42:A:VAL:HA	8	0.25	0.1	0.24
(1,1351)	1:48:A:ALA:HB2	1:42:A:VAL:HA	8	0.25	0.1	0.24
(1,1351)	1:48:A:ALA:HB3	1:42:A:VAL:HA	8	0.25	0.1	0.24
(1,1936)	1:116:A:GLU:H	1:116:A:GLU:HG2	8	0.25	0.08	0.29
(3,743)	1:37:A:ALA:HB1	1:50:A:VAL:HA	8	0.25	0.06	0.28
(3,743)	1:37:A:ALA:HB3	1:50:A:VAL:HA	8	0.25	0.06	0.28
(3,743)	1:37:A:ALA:HB2	1:50:A:VAL:HA	8	0.25	0.06	0.28
(3,296)	1:91:A:LEU:HD23	1:91:A:LEU:HG	8	0.25	0.09	0.29
(3,296)	1:91:A:LEU:HD23	1:101:A:ALA:HB3	8	0.25	0.09	0.29
(3,296)	1:91:A:LEU:HD21	1:101:A:ALA:HB3	8	0.25	0.09	0.29
(3,296)	1:91:A:LEU:HD23	1:101:A:ALA:HB2	8	0.25	0.09	0.29
(3,296)	1:91:A:LEU:HD22	1:91:A:LEU:HG	8	0.25	0.09	0.29
(3,296)	1:91:A:LEU:HD22	1:101:A:ALA:HB3	8	0.25	0.09	0.29
(1,2335)	1:68:A:THR:HB	1:125:A:LYS:H	8	0.24	0.07	0.24
(1,777)	1:48:A:ALA:HB1	1:41:A:GLU:H	8	0.23	0.09	0.22
(1,777)	1:48:A:ALA:HB2	1:41:A:GLU:H	8	0.23	0.09	0.22
(1,777)	1:48:A:ALA:HB3	1:41:A:GLU:H	8	0.23	0.09	0.22
(3,85)	1:39:A:VAL:HG21	1:50:A:VAL:HA	8	0.22	0.05	0.22
(3,85)	1:39:A:VAL:HG22	1:50:A:VAL:HA	8	0.22	0.05	0.22
(3,85)	1:39:A:VAL:HG23	1:50:A:VAL:HA	8	0.22	0.05	0.22
(3,85)	1:36:A:LYS:HA	1:69:A:VAL:HG11	8	0.22	0.05	0.22
(3,85)	1:36:A:LYS:HA	1:69:A:VAL:HG12	8	0.22	0.05	0.22
(1,2219)	1:120:A:TYR:H	1:101:A:ALA:HB1	8	0.21	0.05	0.2
(1,2219)	1:120:A:TYR:H	1:101:A:ALA:HB2	8	0.21	0.05	0.2
(1,2219)	1:120:A:TYR:H	1:101:A:ALA:HB3	8	0.21	0.05	0.2
(1,1760)	1:105:A:ILE:HG21	1:111:A:LYS:H	8	0.21	0.06	0.18
(1,1760)	1:105:A:ILE:HG22	1:111:A:LYS:H	8	0.21	0.06	0.18
(1,1760)	1:105:A:ILE:HG23	1:111:A:LYS:H	8	0.21	0.06	0.18

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,399)	1:66:A:LEU:HA	1:24:A:ILE:HG21	8	0.2	0.07	0.2
(1,399)	1:66:A:LEU:HA	1:24:A:ILE:HG22	8	0.2	0.07	0.2
(1,399)	1:66:A:LEU:HA	1:24:A:ILE:HG23	8	0.2	0.07	0.2
(1,2786)	1:81:A:ASN:H	1:86:A:GLY:H	8	0.2	0.11	0.16
(1,148)	1:15:A:LEU:HD11	1:14:A:TRP:HZ2	8	0.2	0.06	0.2
(1,148)	1:15:A:LEU:HD12	1:14:A:TRP:HZ2	8	0.2	0.06	0.2
(1,148)	1:15:A:LEU:HD13	1:14:A:TRP:HZ2	8	0.2	0.06	0.2
(1,2958)	1:64:A:THR:H	1:63:A:GLN:HB2	8	0.19	0.06	0.19
(1,2958)	1:64:A:THR:H	1:63:A:GLN:HB3	8	0.19	0.06	0.19
(3,487)	1:6:A:LYS:HG2	1:6:A:LYS:HE2	8	0.18	0.03	0.18
(3,487)	1:40:A:LYS:HE3	1:38:A:ILE:HB	8	0.18	0.03	0.18
(3,487)	1:75:A:LYS:HE3	1:75:A:LYS:HG3	8	0.18	0.03	0.18
(3,487)	1:5:A:LYS:HG2	1:5:A:LYS:HE3	8	0.18	0.03	0.18
(3,487)	1:5:A:LYS:HE2	1:5:A:LYS:HG3	8	0.18	0.03	0.18
(3,487)	1:6:A:LYS:HG3	1:6:A:LYS:HE2	8	0.18	0.03	0.18
(1,265)	1:19:A:ILE:HG21	1:18:A:GLU:H	8	0.18	0.04	0.18
(1,265)	1:19:A:ILE:HG22	1:18:A:GLU:H	8	0.18	0.04	0.18
(1,265)	1:19:A:ILE:HG23	1:18:A:GLU:H	8	0.18	0.04	0.18
(1,150)	1:48:A:ALA:H	1:15:A:LEU:HD21	8	0.17	0.06	0.15
(1,150)	1:48:A:ALA:H	1:15:A:LEU:HD22	8	0.17	0.06	0.15
(1,150)	1:48:A:ALA:H	1:15:A:LEU:HD23	8	0.17	0.06	0.15
(3,481)	1:93:A:SER:H	1:93:A:SER:HB3	8	0.16	0.04	0.17
(1,842)	1:53:A:ILE:HA	1:53:A:ILE:HG13	8	0.15	0.03	0.15
(1,205)	1:17:A:PRO:HA	1:17:A:PRO:HG2	8	0.14	0.02	0.14
(3,729)	1:26:A:LYS:HE2	1:26:A:LYS:HD3	8	0.12	0.01	0.12
(3,729)	1:26:A:LYS:HD2	1:26:A:LYS:HE3	8	0.12	0.01	0.12
(1,3598)	1:97:A:LYS:HB3	1:95:A:ASN:HD22	7	2.61	0.32	2.52
(1,3418)	1:10:A:ARG:HG3	1:9:A:ALA:H	7	1.29	0.51	1.12
(1,3520)	1:52:A:MET:HG2	1:59:A:LEU:H	7	0.97	0.66	0.71
(3,564)	1:60:A:LYS:HE3	1:43:A:ILE:HD12	7	0.97	0.24	1.07
(3,564)	1:34:A:LYS:HE2	1:34:A:LYS:HG2	7	0.97	0.24	1.07
(3,564)	1:60:A:LYS:HE3	1:43:A:ILE:HD11	7	0.97	0.24	1.07
(1,3594)	1:97:A:LYS:H	1:95:A:ASN:HD22	7	0.96	0.16	0.98
(1,2635)	1:96:A:GLU:HB2	1:96:A:GLU:H	7	0.78	0.01	0.78
(1,2802)	1:81:A:ASN:HB3	1:80:A:LEU:H	7	0.78	0.5	1.11
(1,686)	1:41:A:GLU:HG3	1:43:A:ILE:HD11	7	0.73	0.33	0.61
(1,686)	1:41:A:GLU:HG3	1:43:A:ILE:HD12	7	0.73	0.33	0.61
(1,686)	1:41:A:GLU:HG3	1:43:A:ILE:HD13	7	0.73	0.33	0.61
(1,434)	1:61:A:LEU:HD21	1:59:A:LEU:HD11	7	0.61	0.3	0.63
(1,434)	1:61:A:LEU:HD21	1:59:A:LEU:HD12	7	0.61	0.3	0.63
(1,434)	1:61:A:LEU:HD21	1:59:A:LEU:HD13	7	0.61	0.3	0.63
(1,434)	1:61:A:LEU:HD22	1:59:A:LEU:HD11	7	0.61	0.3	0.63

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,434)	1:61:A:LEU:HD22	1:59:A:LEU:HD12	7	0.61	0.3	0.63
(1,434)	1:61:A:LEU:HD22	1:59:A:LEU:HD13	7	0.61	0.3	0.63
(1,434)	1:61:A:LEU:HD23	1:59:A:LEU:HD11	7	0.61	0.3	0.63
(1,434)	1:61:A:LEU:HD23	1:59:A:LEU:HD12	7	0.61	0.3	0.63
(1,434)	1:61:A:LEU:HD23	1:59:A:LEU:HD13	7	0.61	0.3	0.63
(1,1606)	1:96:A:GLU:HG2	1:96:A:GLU:HA	7	0.59	0.0	0.59
(1,1606)	1:96:A:GLU:HG3	1:96:A:GLU:HA	7	0.59	0.0	0.59
(1,1541)	1:93:A:SER:H	1:92:A:GLU:HG3	7	0.58	0.04	0.56
(3,1097)	1:82:A:GLY:H	1:11:A:THR:HG23	7	0.57	0.35	0.53
(3,1097)	1:82:A:GLY:H	1:11:A:THR:HG21	7	0.57	0.35	0.53
(3,1097)	1:82:A:GLY:H	1:79:A:VAL:HG21	7	0.57	0.35	0.53
(3,1097)	1:82:A:GLY:H	1:11:A:THR:HG22	7	0.57	0.35	0.53
(1,2294)	1:19:A:ILE:HD11	1:16:A:GLN:HB2	7	0.53	0.27	0.51
(1,2294)	1:19:A:ILE:HD12	1:16:A:GLN:HB2	7	0.53	0.27	0.51
(1,2294)	1:19:A:ILE:HD13	1:16:A:GLN:HB2	7	0.53	0.27	0.51
(1,3210)	1:36:A:LYS:H	1:36:A:LYS:HE2	7	0.5	0.19	0.51
(1,3210)	1:36:A:LYS:H	1:36:A:LYS:HE3	7	0.5	0.19	0.51
(1,2646)	1:95:A:ASN:HB3	1:95:A:ASN:H	7	0.5	0.06	0.5
(1,3011)	1:58:A:LYS:H	1:57:A:ASP:HB3	7	0.49	0.23	0.58
(3,300)	1:11:A:THR:HG21	1:13:A:TYR:HE1	7	0.47	0.15	0.51
(3,300)	1:11:A:THR:HG23	1:13:A:TYR:HE2	7	0.47	0.15	0.51
(3,300)	1:11:A:THR:HG22	1:13:A:TYR:HE2	7	0.47	0.15	0.51
(3,300)	1:11:A:THR:HG23	1:13:A:TYR:HE1	7	0.47	0.15	0.51
(3,300)	1:11:A:THR:HG22	1:13:A:TYR:HE1	7	0.47	0.15	0.51
(3,849)	1:26:A:LYS:HB3	1:33:A:HIS:H	7	0.46	0.09	0.5
(3,849)	1:35:A:LYS:HD2	1:33:A:HIS:H	7	0.46	0.09	0.5
(1,1603)	1:96:A:GLU:HB2	1:96:A:GLU:H	7	0.46	0.01	0.46
(1,1448)	1:85:A:ARG:HD2	1:81:A:ASN:HA	7	0.45	0.16	0.52
(3,378)	1:89:A:GLY:H	1:103:A:ILE:HD12	7	0.43	0.1	0.48
(3,378)	1:89:A:GLY:H	1:105:A:ILE:HD13	7	0.43	0.1	0.48
(1,3113)	1:44:A:ASP:HB2	1:46:A:TYR:H	7	0.43	0.19	0.46
(1,1539)	1:92:A:GLU:HA	1:92:A:GLU:HG3	7	0.42	0.02	0.42
(1,708)	1:44:A:ASP:HB3	1:44:A:ASP:HA	7	0.41	0.0	0.41
(1,1484)	1:96:A:GLU:HG2	1:96:A:GLU:HA	7	0.41	0.01	0.41
(1,1484)	1:96:A:GLU:HG3	1:96:A:GLU:HA	7	0.41	0.01	0.41
(1,1526)	1:92:A:GLU:H	1:91:A:LEU:HG	7	0.39	0.27	0.27
(1,3615)	1:119:A:GLN:HE21	1:100:A:SER:HB2	7	0.37	0.26	0.2
(1,3511)	1:43:A:ILE:H	1:41:A:GLU:HG3	7	0.37	0.21	0.33
(1,2148)	1:93:A:SER:H	1:91:A:LEU:HG	7	0.36	0.23	0.26
(1,3642)	1:13:A:TYR:H	1:45:A:LYS:HB2	7	0.35	0.13	0.43
(1,3368)	1:15:A:LEU:H	1:13:A:TYR:HB3	7	0.34	0.18	0.26
(1,3775)	1:13:A:TYR:HB2	1:46:A:TYR:HD1	7	0.33	0.28	0.23

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3775)	1:13:A:TYR:HB2	1:46:A:TYR:HD2	7	0.33	0.28	0.23
(3,1108)	1:53:A:ILE:HB	1:56:A:GLY:H	7	0.32	0.14	0.29
(3,1108)	1:10:A:ARG:HB3	1:81:A:ASN:HD21	7	0.32	0.14	0.29
(1,2589)	1:95:A:ASN:HB3	1:100:A:SER:H	7	0.32	0.16	0.42
(1,1868)	1:104:A:VAL:HG21	1:112:A:GLY:HA3	7	0.31	0.16	0.32
(1,1868)	1:104:A:VAL:HG22	1:112:A:GLY:HA3	7	0.31	0.16	0.32
(1,1868)	1:104:A:VAL:HG23	1:112:A:GLY:HA3	7	0.31	0.16	0.32
(1,12)	1:96:A:GLU:HB2	1:96:A:GLU:H	7	0.31	0.01	0.31
(1,2675)	1:92:A:GLU:H	1:91:A:LEU:HG	7	0.3	0.27	0.19
(1,849)	1:37:A:ALA:HA	1:53:A:ILE:HB	7	0.3	0.08	0.33
(3,799)	1:48:A:ALA:H	1:60:A:LYS:HD3	7	0.29	0.11	0.3
(1,3146)	1:42:A:VAL:HG21	1:43:A:ILE:H	7	0.28	0.06	0.26
(1,3146)	1:42:A:VAL:HG22	1:43:A:ILE:H	7	0.28	0.06	0.26
(1,3146)	1:42:A:VAL:HG23	1:43:A:ILE:H	7	0.28	0.06	0.26
(1,3710)	1:82:A:GLY:H	1:85:A:ARG:HA	7	0.27	0.09	0.27
(1,3392)	1:11:A:THR:H	1:13:A:TYR:H	7	0.27	0.04	0.26
(1,888)	1:54:A:ASP:HB2	1:53:A:ILE:HB	7	0.26	0.11	0.23
(1,563)	1:39:A:VAL:HG21	1:19:A:ILE:H	7	0.25	0.1	0.23
(1,563)	1:39:A:VAL:HG22	1:19:A:ILE:H	7	0.25	0.1	0.23
(1,563)	1:39:A:VAL:HG23	1:19:A:ILE:H	7	0.25	0.1	0.23
(1,2316)	1:127:A:ALA:H	1:19:A:ILE:HB	7	0.24	0.08	0.21
(1,2330)	1:125:A:LYS:HE2	1:125:A:LYS:H	7	0.23	0.18	0.14
(1,971)	1:65:A:HIS:HB3	1:61:A:LEU:HB2	7	0.22	0.07	0.22
(1,3470)	1:16:A:GLN:HB2	1:16:A:GLN:HE21	7	0.21	0.02	0.21
(1,2468)	1:113:A:ARG:H	1:105:A:ILE:HG21	7	0.21	0.06	0.19
(1,2468)	1:113:A:ARG:H	1:105:A:ILE:HG22	7	0.21	0.06	0.19
(1,2468)	1:113:A:ARG:H	1:105:A:ILE:HG23	7	0.21	0.06	0.19
(1,1590)	1:95:A:ASN:HD22	1:95:A:ASN:HB2	7	0.21	0.0	0.21
(1,2634)	1:96:A:GLU:HG3	1:96:A:GLU:H	7	0.2	0.08	0.2
(1,2258)	1:23:A:ILE:HD11	1:32:A:TYR:HA	7	0.19	0.06	0.2
(1,2258)	1:23:A:ILE:HD12	1:32:A:TYR:HA	7	0.19	0.06	0.2
(1,2258)	1:23:A:ILE:HD13	1:32:A:TYR:HA	7	0.19	0.06	0.2
(1,787)	1:49:A:VAL:HG11	1:58:A:LYS:HG2	7	0.19	0.06	0.16
(1,787)	1:49:A:VAL:HG12	1:58:A:LYS:HG2	7	0.19	0.06	0.16
(1,787)	1:49:A:VAL:HG13	1:58:A:LYS:HG2	7	0.19	0.06	0.16
(1,2155)	1:118:A:ILE:HA	1:101:A:ALA:H	7	0.18	0.08	0.14
(3,144)	1:96:A:GLU:HB2	1:97:A:LYS:H	7	0.18	0.06	0.18
(3,144)	1:96:A:GLU:HB3	1:97:A:LYS:H	7	0.18	0.06	0.18
(3,1167)	1:115:A:VAL:HG23	1:115:A:VAL:HB	7	0.13	0.01	0.13
(3,1167)	1:115:A:VAL:HG22	1:115:A:VAL:HB	7	0.13	0.01	0.13
(3,1167)	1:115:A:VAL:HG21	1:115:A:VAL:HB	7	0.13	0.01	0.13
(1,632)	1:41:A:GLU:HB3	1:41:A:GLU:HG2	7	0.12	0.01	0.12

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,478)	1:31:A:LYS:HB3	1:31:A:LYS:HA	7	0.12	0.01	0.11
(3,1061)	1:10:A:ARG:HB2	1:10:A:ARG:HA	7	0.11	0.0	0.11
(1,1916)	1:115:A:VAL:HG11	1:105:A:ILE:H	6	1.93	0.8	2.3
(1,1916)	1:115:A:VAL:HG12	1:105:A:ILE:H	6	1.93	0.8	2.3
(1,1916)	1:115:A:VAL:HG13	1:105:A:ILE:H	6	1.93	0.8	2.3
(1,2504)	1:111:A:LYS:HE3	1:107:A:THR:H	6	1.52	0.19	1.5
(1,82)	1:122:A:ASP:HA	1:81:A:ASN:HB3	6	1.37	0.63	1.66
(3,31)	1:75:A:LYS:HE2	1:76:A:ARG:H	6	1.16	0.17	1.16
(3,31)	1:75:A:LYS:HE3	1:76:A:ARG:H	6	1.16	0.17	1.16
(1,1215)	1:75:A:LYS:HE3	1:72:A:ALA:HB1	6	1.15	0.58	1.03
(1,1215)	1:75:A:LYS:HE3	1:72:A:ALA:HB2	6	1.15	0.58	1.03
(1,1215)	1:75:A:LYS:HE3	1:72:A:ALA:HB3	6	1.15	0.58	1.03
(1,2878)	1:75:A:LYS:HE3	1:72:A:ALA:H	6	1.1	0.62	0.97
(3,563)	1:60:A:LYS:HE2	1:60:A:LYS:HG2	6	1.05	0.01	1.05
(3,563)	1:58:A:LYS:HG2	1:58:A:LYS:HE2	6	1.05	0.01	1.05
(3,466)	1:113:A:ARG:HA	1:113:A:ARG:HG3	6	0.95	0.02	0.95
(1,3758)	1:27:A:LYS:HD3	1:65:A:HIS:HE1	6	0.92	0.48	0.72
(1,3758)	1:65:A:HIS:HE1	1:27:A:LYS:HD2	6	0.92	0.48	0.72
(3,518)	1:26:A:LYS:HD2	1:30:A:GLU:HG2	6	0.67	0.45	0.54
(3,518)	1:96:A:GLU:HG3	1:97:A:LYS:HG3	6	0.67	0.45	0.54
(1,965)	1:22:A:LYS:HE2	1:22:A:LYS:HG2	6	0.65	0.32	0.48
(3,339)	1:30:A:GLU:HG3	1:32:A:TYR:H	6	0.63	0.12	0.64
(3,339)	1:30:A:GLU:HG2	1:32:A:TYR:H	6	0.63	0.12	0.64
(2,11)	1:9:A:ALA:HA	1:14:A:TRP:HA	6	0.56	0.29	0.52
(3,391)	1:114:A:ARG:H	1:114:A:ARG:HG3	6	0.55	0.03	0.55
(1,1216)	1:75:A:LYS:HG2	1:72:A:ALA:HB1	6	0.53	0.65	0.28
(1,1216)	1:75:A:LYS:HG2	1:72:A:ALA:HB2	6	0.53	0.65	0.28
(1,1216)	1:75:A:LYS:HG2	1:72:A:ALA:HB3	6	0.53	0.65	0.28
(3,187)	1:16:A:GLN:H	1:14:A:TRP:HZ3	6	0.49	0.16	0.45
(3,583)	1:118:A:ILE:HD13	1:122:A:ASP:HB3	6	0.47	0.27	0.5
(3,583)	1:118:A:ILE:HD11	1:122:A:ASP:HB3	6	0.47	0.27	0.5
(3,583)	1:125:A:LYS:HE2	1:20:A:ILE:HD12	6	0.47	0.27	0.5
(3,583)	1:118:A:ILE:HD12	1:122:A:ASP:HB3	6	0.47	0.27	0.5
(3,291)	1:114:A:ARG:H	1:114:A:ARG:HG2	6	0.42	0.06	0.42
(1,2183)	1:111:A:LYS:HE2	1:111:A:LYS:HA	6	0.41	0.05	0.38
(3,1076)	1:5:A:LYS:H	1:5:A:LYS:HD3	6	0.38	0.19	0.3
(3,1076)	1:97:A:LYS:H	1:97:A:LYS:HD3	6	0.38	0.19	0.3
(3,1076)	1:97:A:LYS:H	1:97:A:LYS:HD2	6	0.38	0.19	0.3
(3,567)	1:89:A:GLY:HA2	1:105:A:ILE:HD11	6	0.33	0.3	0.22
(3,567)	1:89:A:GLY:HA2	1:105:A:ILE:HD12	6	0.33	0.3	0.22
(3,567)	1:89:A:GLY:HA2	1:105:A:ILE:HD13	6	0.33	0.3	0.22
(3,4)	1:102:A:THR:HG21	1:116:A:GLU:H	6	0.3	0.09	0.29

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,4)	1:102:A:THR:HG23	1:116:A:GLU:H	6	0.3	0.09	0.29
(3,4)	1:102:A:THR:HG22	1:116:A:GLU:H	6	0.3	0.09	0.29
(1,3163)	1:49:A:VAL:HG21	1:41:A:GLU:H	6	0.3	0.09	0.34
(1,3163)	1:49:A:VAL:HG22	1:41:A:GLU:H	6	0.3	0.09	0.34
(1,3163)	1:49:A:VAL:HG23	1:41:A:GLU:H	6	0.3	0.09	0.34
(1,3163)	1:49:A:VAL:HG11	1:41:A:GLU:H	6	0.3	0.09	0.34
(1,3163)	1:49:A:VAL:HG12	1:41:A:GLU:H	6	0.3	0.09	0.34
(1,3163)	1:49:A:VAL:HG13	1:41:A:GLU:H	6	0.3	0.09	0.34
(3,633)	1:51:A:LYS:HG3	1:56:A:GLY:H	6	0.29	0.16	0.26
(1,2034)	1:98:A:THR:HG21	1:95:A:ASN:HB3	6	0.29	0.14	0.29
(1,2034)	1:98:A:THR:HG22	1:95:A:ASN:HB3	6	0.29	0.14	0.29
(1,2034)	1:98:A:THR:HG23	1:95:A:ASN:HB3	6	0.29	0.14	0.29
(1,2178)	1:104:A:VAL:HG21	1:112:A:GLY:HA3	6	0.29	0.15	0.28
(1,2178)	1:104:A:VAL:HG22	1:112:A:GLY:HA3	6	0.29	0.15	0.28
(1,2178)	1:104:A:VAL:HG23	1:112:A:GLY:HA3	6	0.29	0.15	0.28
(1,2429)	1:93:A:SER:H	1:91:A:LEU:HG	6	0.28	0.24	0.18
(3,680)	1:23:A:ILE:H	1:24:A:ILE:HD12	6	0.28	0.07	0.25
(3,680)	1:23:A:ILE:H	1:24:A:ILE:HD11	6	0.28	0.07	0.25
(3,680)	1:64:A:THR:H	1:24:A:ILE:HD11	6	0.28	0.07	0.25
(1,3176)	1:51:A:LYS:HB3	1:40:A:LYS:H	6	0.28	0.12	0.3
(1,940)	1:61:A:LEU:HG	1:59:A:LEU:HD11	6	0.25	0.21	0.18
(1,940)	1:61:A:LEU:HG	1:59:A:LEU:HD12	6	0.25	0.21	0.18
(1,940)	1:61:A:LEU:HG	1:59:A:LEU:HD13	6	0.25	0.21	0.18
(1,2481)	1:106:A:GLU:HA	1:111:A:LYS:H	6	0.25	0.11	0.24
(3,440)	1:93:A:SER:H	1:103:A:ILE:H	6	0.24	0.08	0.22
(3,440)	1:103:A:ILE:H	1:117:A:GLY:H	6	0.24	0.08	0.22
(1,2625)	1:97:A:LYS:H	1:99:A:PHE:H	6	0.23	0.06	0.24
(1,659)	1:45:A:LYS:H	1:42:A:VAL:HG21	6	0.23	0.1	0.22
(1,659)	1:45:A:LYS:H	1:42:A:VAL:HG22	6	0.23	0.1	0.22
(1,659)	1:45:A:LYS:H	1:42:A:VAL:HG23	6	0.23	0.1	0.22
(1,1714)	1:103:A:ILE:HG21	1:123:A:ILE:HG21	6	0.22	0.14	0.18
(1,1714)	1:103:A:ILE:HG21	1:123:A:ILE:HG22	6	0.22	0.14	0.18
(1,1714)	1:103:A:ILE:HG21	1:123:A:ILE:HG23	6	0.22	0.14	0.18
(1,1714)	1:103:A:ILE:HG22	1:123:A:ILE:HG21	6	0.22	0.14	0.18
(1,1714)	1:103:A:ILE:HG22	1:123:A:ILE:HG22	6	0.22	0.14	0.18
(1,1714)	1:103:A:ILE:HG22	1:123:A:ILE:HG23	6	0.22	0.14	0.18
(1,1714)	1:103:A:ILE:HG23	1:123:A:ILE:HG21	6	0.22	0.14	0.18
(1,1714)	1:103:A:ILE:HG23	1:123:A:ILE:HG22	6	0.22	0.14	0.18
(1,1714)	1:103:A:ILE:HG23	1:123:A:ILE:HG23	6	0.22	0.14	0.18
(1,2207)	1:103:A:ILE:HG21	1:118:A:ILE:HB	6	0.22	0.13	0.17
(1,2207)	1:103:A:ILE:HG22	1:118:A:ILE:HB	6	0.22	0.13	0.17
(1,2207)	1:103:A:ILE:HG23	1:118:A:ILE:HB	6	0.22	0.13	0.17

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3750)	1:14:A:TRP:HZ2	1:63:A:GLN:HB3	6	0.21	0.1	0.2
(3,516)	1:118:A:ILE:HG13	1:117:A:GLY:HA2	6	0.2	0.04	0.22
(1,585)	1:127:A:ALA:HA	1:38:A:ILE:HD11	6	0.2	0.1	0.16
(1,585)	1:127:A:ALA:HA	1:38:A:ILE:HD12	6	0.2	0.1	0.16
(1,585)	1:127:A:ALA:HA	1:38:A:ILE:HD13	6	0.2	0.1	0.16
(1,2252)	1:40:A:LYS:HE3	1:40:A:LYS:HG3	6	0.19	0.05	0.18
(1,309)	1:21:A:VAL:HG21	1:14:A:TRP:HH2	6	0.18	0.09	0.15
(1,309)	1:21:A:VAL:HG22	1:14:A:TRP:HH2	6	0.18	0.09	0.15
(1,309)	1:21:A:VAL:HG23	1:14:A:TRP:HH2	6	0.18	0.09	0.15
(1,763)	1:47:A:THR:HB	1:43:A:ILE:HG21	6	0.18	0.07	0.16
(1,763)	1:47:A:THR:HB	1:43:A:ILE:HG22	6	0.18	0.07	0.16
(1,763)	1:47:A:THR:HB	1:43:A:ILE:HG23	6	0.18	0.07	0.16
(1,3309)	1:23:A:ILE:H	1:23:A:ILE:HD11	6	0.17	0.02	0.18
(1,3309)	1:23:A:ILE:H	1:23:A:ILE:HD12	6	0.17	0.02	0.18
(1,3309)	1:23:A:ILE:H	1:23:A:ILE:HD13	6	0.17	0.02	0.18
(1,964)	1:60:A:LYS:HE2	1:60:A:LYS:HA	6	0.17	0.04	0.16
(3,690)	1:60:A:LYS:HE2	1:60:A:LYS:HG2	6	0.16	0.0	0.16
(3,690)	1:58:A:LYS:HG2	1:58:A:LYS:HE2	6	0.16	0.0	0.16
(3,890)	1:78:A:LEU:HA	1:124:A:SER:H	6	0.16	0.04	0.15
(3,890)	1:68:A:THR:HB	1:124:A:SER:H	6	0.16	0.04	0.15
(1,3612)	1:119:A:GLN:HB3	1:119:A:GLN:HE21	6	0.16	0.03	0.15
(1,1458)	1:88:A:GLU:H	1:87:A:ASN:HB2	6	0.14	0.03	0.15
(3,332)	1:43:A:ILE:HG21	1:43:A:ILE:HG13	6	0.13	0.02	0.13
(3,332)	1:43:A:ILE:HG22	1:43:A:ILE:HG13	6	0.13	0.02	0.13
(3,332)	1:43:A:ILE:HG23	1:43:A:ILE:HG13	6	0.13	0.02	0.13
(1,468)	1:30:A:GLU:HB3	1:30:A:GLU:HA	6	0.12	0.02	0.11
(1,400)	1:24:A:ILE:HA	1:24:A:ILE:HG21	6	0.12	0.01	0.12
(1,400)	1:24:A:ILE:HA	1:24:A:ILE:HG22	6	0.12	0.01	0.12
(1,400)	1:24:A:ILE:HA	1:24:A:ILE:HG23	6	0.12	0.01	0.12
(1,1920)	1:104:A:VAL:HA	1:115:A:VAL:HG11	5	1.9	0.04	1.89
(1,1920)	1:104:A:VAL:HA	1:115:A:VAL:HG12	5	1.9	0.04	1.89
(1,1920)	1:104:A:VAL:HA	1:115:A:VAL:HG13	5	1.9	0.04	1.89
(1,1926)	1:115:A:VAL:HG11	1:105:A:ILE:HG13	5	1.38	0.13	1.38
(1,1926)	1:115:A:VAL:HG12	1:105:A:ILE:HG13	5	1.38	0.13	1.38
(1,1926)	1:115:A:VAL:HG13	1:105:A:ILE:HG13	5	1.38	0.13	1.38
(3,317)	1:34:A:LYS:HB3	1:34:A:LYS:HE2	5	1.29	0.11	1.29
(3,317)	1:34:A:LYS:HB2	1:34:A:LYS:HE2	5	1.29	0.11	1.29
(3,317)	1:34:A:LYS:HE3	1:34:A:LYS:HB3	5	1.29	0.11	1.29
(1,2420)	1:115:A:VAL:HG21	1:118:A:ILE:H	5	1.24	0.1	1.28
(1,2420)	1:115:A:VAL:HG22	1:118:A:ILE:H	5	1.24	0.1	1.28
(1,2420)	1:115:A:VAL:HG23	1:118:A:ILE:H	5	1.24	0.1	1.28
(1,2432)	1:115:A:VAL:HG21	1:116:A:GLU:H	5	1.23	0.05	1.23

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2432)	1:115:A:VAL:HG22	1:116:A:GLU:H	5	1.23	0.05	1.23
(1,2432)	1:115:A:VAL:HG23	1:116:A:GLU:H	5	1.23	0.05	1.23
(1,2533)	1:115:A:VAL:HG11	1:105:A:ILE:H	5	1.21	0.09	1.26
(1,2533)	1:115:A:VAL:HG12	1:105:A:ILE:H	5	1.21	0.09	1.26
(1,2533)	1:115:A:VAL:HG13	1:105:A:ILE:H	5	1.21	0.09	1.26
(1,1921)	1:115:A:VAL:HG11	1:113:A:ARG:HD3	5	1.18	0.09	1.15
(1,1921)	1:115:A:VAL:HG12	1:113:A:ARG:HD3	5	1.18	0.09	1.15
(1,1921)	1:115:A:VAL:HG13	1:113:A:ARG:HD3	5	1.18	0.09	1.15
(1,1751)	1:115:A:VAL:HG11	1:105:A:ILE:HG12	5	1.09	0.1	1.11
(1,1751)	1:115:A:VAL:HG12	1:105:A:ILE:HG12	5	1.09	0.1	1.11
(1,1751)	1:115:A:VAL:HG13	1:105:A:ILE:HG12	5	1.09	0.1	1.11
(1,2163)	1:115:A:VAL:HG11	1:105:A:ILE:HA	5	1.05	0.07	1.07
(1,2163)	1:115:A:VAL:HG12	1:105:A:ILE:HA	5	1.05	0.07	1.07
(1,2163)	1:115:A:VAL:HG13	1:105:A:ILE:HA	5	1.05	0.07	1.07
(1,834)	1:52:A:MET:HG2	1:59:A:LEU:HG	5	1.0	0.45	1.23
(1,1927)	1:115:A:VAL:HG11	1:105:A:ILE:HG12	5	0.97	0.1	0.99
(1,1927)	1:115:A:VAL:HG12	1:105:A:ILE:HG12	5	0.97	0.1	0.99
(1,1927)	1:115:A:VAL:HG13	1:105:A:ILE:HG12	5	0.97	0.1	0.99
(1,1915)	1:115:A:VAL:HG11	1:115:A:VAL:H	5	0.95	0.01	0.95
(1,1915)	1:115:A:VAL:HG12	1:115:A:VAL:H	5	0.95	0.01	0.95
(1,1915)	1:115:A:VAL:HG13	1:115:A:VAL:H	5	0.95	0.01	0.95
(1,1886)	1:115:A:VAL:HG11	1:113:A:ARG:HD3	5	0.88	0.09	0.85
(1,1886)	1:115:A:VAL:HG12	1:113:A:ARG:HD3	5	0.88	0.09	0.85
(1,1886)	1:115:A:VAL:HG13	1:113:A:ARG:HD3	5	0.88	0.09	0.85
(1,2470)	1:113:A:ARG:H	1:115:A:VAL:HG11	5	0.87	0.09	0.85
(1,2470)	1:113:A:ARG:H	1:115:A:VAL:HG12	5	0.87	0.09	0.85
(1,2470)	1:113:A:ARG:H	1:115:A:VAL:HG13	5	0.87	0.09	0.85
(1,3557)	1:10:A:ARG:HG2	1:81:A:ASN:HD21	5	0.87	0.83	0.43
(1,1880)	1:113:A:ARG:HB3	1:115:A:VAL:HG11	5	0.86	0.15	0.86
(1,1880)	1:113:A:ARG:HB3	1:115:A:VAL:HG12	5	0.86	0.15	0.86
(1,1880)	1:113:A:ARG:HB3	1:115:A:VAL:HG13	5	0.86	0.15	0.86
(3,857)	1:115:A:VAL:HG13	1:114:A:ARG:HB2	5	0.81	0.15	0.82
(3,857)	1:114:A:ARG:HB3	1:115:A:VAL:HG13	5	0.81	0.15	0.82
(3,857)	1:114:A:ARG:HB3	1:115:A:VAL:HG11	5	0.81	0.15	0.82
(3,241)	1:17:A:PRO:HD3	1:16:A:GLN:HE22	5	0.79	0.26	0.77
(1,1933)	1:115:A:VAL:HG21	1:116:A:GLU:HA	5	0.75	0.03	0.75
(1,1933)	1:115:A:VAL:HG22	1:116:A:GLU:HA	5	0.75	0.03	0.75
(1,1933)	1:115:A:VAL:HG23	1:116:A:GLU:HA	5	0.75	0.03	0.75
(1,3331)	1:20:A:ILE:H	1:124:A:SER:HB3	5	0.72	0.14	0.7
(3,177)	1:40:A:LYS:HE3	1:40:A:LYS:HA	5	0.62	0.32	0.76
(3,177)	1:122:A:ASP:HA	1:81:A:ASN:HB3	5	0.62	0.32	0.76
(1,1258)	1:75:A:LYS:HD2	1:75:A:LYS:HA	5	0.6	0.47	0.37

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1919)	1:115:A:VAL:HG11	1:115:A:VAL:HA	5	0.58	0.0	0.58
(1,1919)	1:115:A:VAL:HG12	1:115:A:VAL:HA	5	0.58	0.0	0.58
(1,1919)	1:115:A:VAL:HG13	1:115:A:VAL:HA	5	0.58	0.0	0.58
(1,1262)	1:75:A:LYS:HD2	1:75:A:LYS:HA	5	0.57	0.47	0.34
(1,2450)	1:115:A:VAL:HG11	1:115:A:VAL:H	5	0.55	0.01	0.55
(1,2450)	1:115:A:VAL:HG12	1:115:A:VAL:H	5	0.55	0.01	0.55
(1,2450)	1:115:A:VAL:HG13	1:115:A:VAL:H	5	0.55	0.01	0.55
(1,3648)	1:16:A:GLN:HE22	1:80:A:LEU:HG	5	0.55	0.2	0.5
(1,42)	1:8:A:THR:HA	1:9:A:ALA:H	5	0.54	0.15	0.56
(1,290)	1:20:A:ILE:HG13	1:127:A:ALA:HA	5	0.49	0.13	0.42
(1,2162)	1:115:A:VAL:HG21	1:113:A:ARG:HD3	5	0.47	0.07	0.45
(1,2162)	1:115:A:VAL:HG22	1:113:A:ARG:HD3	5	0.47	0.07	0.45
(1,2162)	1:115:A:VAL:HG23	1:113:A:ARG:HD3	5	0.47	0.07	0.45
(1,3641)	1:11:A:THR:H	1:81:A:ASN:HD21	5	0.47	0.35	0.37
(1,2221)	1:91:A:LEU:HD21	1:101:A:ALA:HA	5	0.47	0.52	0.19
(1,2221)	1:91:A:LEU:HD22	1:101:A:ALA:HA	5	0.47	0.52	0.19
(1,2221)	1:91:A:LEU:HD23	1:101:A:ALA:HA	5	0.47	0.52	0.19
(1,3726)	1:95:A:ASN:HD21	1:98:A:THR:HB	5	0.46	0.25	0.35
(1,3714)	1:84:A:TYR:HD1	1:87:A:ASN:HD22	5	0.44	0.14	0.44
(1,3714)	1:84:A:TYR:HD2	1:87:A:ASN:HD22	5	0.44	0.14	0.44
(1,1518)	1:75:A:LYS:H	1:91:A:LEU:HD11	5	0.44	0.49	0.19
(1,1518)	1:75:A:LYS:H	1:91:A:LEU:HD12	5	0.44	0.49	0.19
(1,1518)	1:75:A:LYS:H	1:91:A:LEU:HD13	5	0.44	0.49	0.19
(2,142)	1:10:A:ARG:HA	1:82:A:GLY:HA3	5	0.43	0.14	0.38
(1,2456)	1:115:A:VAL:HG11	1:114:A:ARG:H	5	0.43	0.03	0.41
(1,2456)	1:115:A:VAL:HG12	1:114:A:ARG:H	5	0.43	0.03	0.41
(1,2456)	1:115:A:VAL:HG13	1:114:A:ARG:H	5	0.43	0.03	0.41
(1,816)	1:111:A:LYS:HD3	1:106:A:GLU:HA	5	0.41	0.09	0.43
(1,1924)	1:113:A:ARG:HB3	1:115:A:VAL:HG11	5	0.39	0.15	0.39
(1,1924)	1:113:A:ARG:HB3	1:115:A:VAL:HG12	5	0.39	0.15	0.39
(1,1924)	1:113:A:ARG:HB3	1:115:A:VAL:HG13	5	0.39	0.15	0.39
(3,1137)	1:113:A:ARG:HD2	1:114:A:ARG:HA	5	0.39	0.21	0.25
(3,628)	1:17:A:PRO:HD2	1:17:A:PRO:HB3	5	0.38	0.0	0.38
(1,1910)	1:115:A:VAL:HG11	1:115:A:VAL:HA	5	0.38	0.0	0.38
(1,1910)	1:115:A:VAL:HG12	1:115:A:VAL:HA	5	0.38	0.0	0.38
(1,1910)	1:115:A:VAL:HG13	1:115:A:VAL:HA	5	0.38	0.0	0.38
(1,3434)	1:63:A:GLN:HE22	1:14:A:TRP:HE1	5	0.37	0.17	0.4
(1,889)	1:54:A:ASP:HB2	1:53:A:ILE:HG21	5	0.37	0.14	0.44
(1,889)	1:54:A:ASP:HB2	1:53:A:ILE:HG22	5	0.37	0.14	0.44
(1,889)	1:54:A:ASP:HB2	1:53:A:ILE:HG23	5	0.37	0.14	0.44
(1,3715)	1:84:A:TYR:HE1	1:87:A:ASN:HD22	5	0.34	0.16	0.31
(1,3715)	1:84:A:TYR:HE2	1:87:A:ASN:HD22	5	0.34	0.16	0.31

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3403)	1:10:A:ARG:HD2	1:10:A:ARG:H	5	0.34	0.16	0.35
(1,3209)	1:36:A:LYS:H	1:53:A:ILE:HD11	5	0.33	0.11	0.32
(1,3209)	1:36:A:LYS:H	1:53:A:ILE:HD12	5	0.33	0.11	0.32
(1,3209)	1:36:A:LYS:H	1:53:A:ILE:HD13	5	0.33	0.11	0.32
(1,25)	1:7:A:ARG:HA	1:7:A:ARG:HG2	5	0.32	0.04	0.31
(1,3128)	1:47:A:THR:HB	1:44:A:ASP:H	5	0.29	0.11	0.23
(1,281)	1:20:A:ILE:HD11	1:20:A:ILE:HB	5	0.29	0.33	0.13
(1,281)	1:20:A:ILE:HD12	1:20:A:ILE:HB	5	0.29	0.33	0.13
(1,281)	1:20:A:ILE:HD13	1:20:A:ILE:HB	5	0.29	0.33	0.13
(2,574)	1:39:A:VAL:H	1:20:A:ILE:HG12	5	0.28	0.1	0.25
(1,2205)	1:49:A:VAL:HG21	1:41:A:GLU:H	5	0.28	0.06	0.31
(1,2205)	1:49:A:VAL:HG22	1:41:A:GLU:H	5	0.28	0.06	0.31
(1,2205)	1:49:A:VAL:HG23	1:41:A:GLU:H	5	0.28	0.06	0.31
(1,2205)	1:49:A:VAL:HG11	1:41:A:GLU:H	5	0.28	0.06	0.31
(1,2205)	1:49:A:VAL:HG12	1:41:A:GLU:H	5	0.28	0.06	0.31
(1,2205)	1:49:A:VAL:HG13	1:41:A:GLU:H	5	0.28	0.06	0.31
(1,693)	1:80:A:LEU:HD11	1:124:A:SER:HB2	5	0.28	0.11	0.25
(1,693)	1:80:A:LEU:HD12	1:124:A:SER:HB2	5	0.28	0.11	0.25
(1,693)	1:80:A:LEU:HD13	1:124:A:SER:HB2	5	0.28	0.11	0.25
(1,1200)	1:71:A:PRO:HD3	1:70:A:ILE:HG21	5	0.28	0.22	0.16
(1,1200)	1:71:A:PRO:HD3	1:70:A:ILE:HG22	5	0.28	0.22	0.16
(1,1200)	1:71:A:PRO:HD3	1:70:A:ILE:HG23	5	0.28	0.22	0.16
(3,280)	1:112:A:GLY:H	1:111:A:LYS:HG3	5	0.26	0.11	0.28
(1,3737)	1:5:A:LYS:H	1:3:A:GLU:H	5	0.25	0.13	0.21
(3,613)	1:17:A:PRO:HD2	1:17:A:PRO:HB3	5	0.25	0.0	0.25
(3,1091)	1:112:A:GLY:H	1:105:A:ILE:H	5	0.25	0.08	0.25
(3,1091)	1:115:A:VAL:H	1:105:A:ILE:H	5	0.25	0.08	0.25
(1,2633)	1:96:A:GLU:H	1:95:A:ASN:HB3	5	0.23	0.07	0.27
(1,2461)	1:84:A:TYR:HE1	1:113:A:ARG:H	5	0.23	0.12	0.2
(1,2461)	1:84:A:TYR:HE2	1:113:A:ARG:H	5	0.23	0.12	0.2
(1,2447)	1:115:A:VAL:HB	1:115:A:VAL:H	5	0.22	0.04	0.19
(3,1170)	1:111:A:LYS:HB2	1:112:A:GLY:H	5	0.22	0.06	0.23
(1,683)	1:43:A:ILE:HD11	1:43:A:ILE:HA	5	0.22	0.06	0.23
(1,683)	1:43:A:ILE:HD12	1:43:A:ILE:HA	5	0.22	0.06	0.23
(1,683)	1:43:A:ILE:HD13	1:43:A:ILE:HA	5	0.22	0.06	0.23
(1,3000)	1:59:A:LEU:HD11	1:60:A:LYS:H	5	0.21	0.08	0.23
(1,3000)	1:59:A:LEU:HD12	1:60:A:LYS:H	5	0.21	0.08	0.23
(1,3000)	1:59:A:LEU:HD13	1:60:A:LYS:H	5	0.21	0.08	0.23
(1,2285)	1:20:A:ILE:HA	1:20:A:ILE:HG12	5	0.21	0.0	0.21
(1,3631)	1:23:A:ILE:H	1:32:A:TYR:HB3	5	0.2	0.1	0.13
(1,1492)	1:104:A:VAL:H	1:90:A:THR:HB	5	0.19	0.13	0.15
(1,1758)	1:110:A:LEU:H	1:105:A:ILE:HG21	5	0.19	0.03	0.18

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1758)	1:110:A:LEU:H	1:105:A:ILE:HG22	5	0.19	0.03	0.18
(1,1758)	1:110:A:LEU:H	1:105:A:ILE:HG23	5	0.19	0.03	0.18
(1,900)	1:57:A:ASP:HA	1:57:A:ASP:HB3	5	0.19	0.02	0.2
(3,838)	1:52:A:MET:H	1:59:A:LEU:H	5	0.19	0.06	0.16
(3,838)	1:53:A:ILE:H	1:52:A:MET:H	5	0.19	0.06	0.16
(3,854)	1:104:A:VAL:HA	1:103:A:ILE:HB	5	0.19	0.04	0.17
(3,180)	1:65:A:HIS:H	1:62:A:ASP:HB3	5	0.18	0.03	0.2
(3,396)	1:118:A:ILE:HG23	1:121:A:GLU:HA	5	0.18	0.05	0.18
(3,396)	1:121:A:GLU:HA	1:123:A:ILE:HG22	5	0.18	0.05	0.18
(3,396)	1:118:A:ILE:HG22	1:121:A:GLU:HA	5	0.18	0.05	0.18
(1,1352)	1:90:A:THR:HG21	1:74:A:GLY:HA2	5	0.18	0.04	0.16
(1,1352)	1:90:A:THR:HG22	1:74:A:GLY:HA2	5	0.18	0.04	0.16
(1,1352)	1:90:A:THR:HG23	1:74:A:GLY:HA2	5	0.18	0.04	0.16
(1,1021)	1:15:A:LEU:HD11	1:63:A:GLN:HB2	5	0.17	0.05	0.16
(1,1021)	1:15:A:LEU:HD12	1:63:A:GLN:HB2	5	0.17	0.05	0.16
(1,1021)	1:15:A:LEU:HD13	1:63:A:GLN:HB2	5	0.17	0.05	0.16
(1,1655)	1:94:A:ILE:HG21	1:101:A:ALA:HA	5	0.16	0.06	0.16
(1,1655)	1:94:A:ILE:HG22	1:101:A:ALA:HA	5	0.16	0.06	0.16
(1,1655)	1:94:A:ILE:HG23	1:101:A:ALA:HA	5	0.16	0.06	0.16
(1,154)	1:16:A:GLN:HA	1:16:A:GLN:HB3	5	0.16	0.01	0.17
(1,3134)	1:44:A:ASP:H	1:43:A:ILE:HG13	5	0.15	0.05	0.12
(1,530)	1:37:A:ALA:HB1	1:38:A:ILE:H	5	0.15	0.04	0.13
(1,530)	1:37:A:ALA:HB2	1:38:A:ILE:H	5	0.15	0.04	0.13
(1,530)	1:37:A:ALA:HB3	1:38:A:ILE:H	5	0.15	0.04	0.13
(1,3537)	1:46:A:TYR:HE1	1:63:A:GLN:HE21	5	0.15	0.02	0.16
(1,3537)	1:46:A:TYR:HE2	1:63:A:GLN:HE21	5	0.15	0.02	0.16
(1,2967)	1:46:A:TYR:HB2	1:63:A:GLN:H	5	0.15	0.04	0.15
(1,1611)	1:98:A:THR:HA	1:98:A:THR:HB	5	0.14	0.02	0.14
(1,1303)	1:78:A:LEU:H	1:77:A:ILE:HD11	5	0.14	0.02	0.14
(1,1303)	1:78:A:LEU:H	1:77:A:ILE:HD12	5	0.14	0.02	0.14
(1,1303)	1:78:A:LEU:H	1:77:A:ILE:HD13	5	0.14	0.02	0.14
(3,450)	1:103:A:ILE:HG23	1:102:A:THR:HA	5	0.14	0.04	0.12
(3,450)	1:103:A:ILE:HG21	1:102:A:THR:HA	5	0.14	0.04	0.12
(1,479)	1:31:A:LYS:HA	1:32:A:TYR:H	5	0.14	0.01	0.13
(3,817)	1:84:A:TYR:HA	1:85:A:ARG:H	5	0.14	0.02	0.13
(1,2218)	1:102:A:THR:HB	1:103:A:ILE:H	5	0.13	0.01	0.14
(1,439)	1:60:A:LYS:HD2	1:60:A:LYS:HA	5	0.13	0.01	0.13
(1,2509)	1:107:A:THR:H	1:88:A:GLU:H	5	0.12	0.03	0.11
(1,1785)	1:107:A:THR:HB	1:107:A:THR:HA	5	0.11	0.01	0.11
(1,861)	1:53:A:ILE:HD11	1:36:A:LYS:HE2	4	1.51	0.87	1.72
(1,861)	1:53:A:ILE:HD12	1:36:A:LYS:HE2	4	1.51	0.87	1.72
(1,861)	1:53:A:ILE:HD13	1:36:A:LYS:HE2	4	1.51	0.87	1.72

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,861)	1:53:A:ILE:HD11	1:36:A:LYS:HE3	4	1.51	0.87	1.72
(1,861)	1:53:A:ILE:HD12	1:36:A:LYS:HE3	4	1.51	0.87	1.72
(1,861)	1:53:A:ILE:HD13	1:36:A:LYS:HE3	4	1.51	0.87	1.72
(2,344)	1:81:A:ASN:HB3	1:123:A:ILE:HA	4	1.16	0.1	1.17
(1,1197)	1:75:A:LYS:HE3	1:71:A:PRO:HB2	4	1.05	0.3	1.0
(3,186)	1:52:A:MET:HG3	1:59:A:LEU:H	4	1.04	0.56	1.18
(3,186)	1:59:A:LEU:H	1:57:A:ASP:HB2	4	1.04	0.56	1.18
(1,1321)	1:71:A:PRO:HG3	1:77:A:ILE:HG21	4	0.97	1.33	0.22
(1,1321)	1:71:A:PRO:HG3	1:77:A:ILE:HG22	4	0.97	1.33	0.22
(1,1321)	1:71:A:PRO:HG3	1:77:A:ILE:HG23	4	0.97	1.33	0.22
(1,1321)	1:71:A:PRO:HG2	1:77:A:ILE:HG21	4	0.97	1.33	0.22
(1,1321)	1:71:A:PRO:HG2	1:77:A:ILE:HG22	4	0.97	1.33	0.22
(1,1321)	1:71:A:PRO:HG2	1:77:A:ILE:HG23	4	0.97	1.33	0.22
(1,3421)	1:10:A:ARG:H	1:82:A:GLY:HA3	4	0.96	0.59	0.96
(1,14)	1:5:A:LYS:HA	1:5:A:LYS:HD2	4	0.93	0.5	1.08
(1,14)	1:5:A:LYS:HA	1:5:A:LYS:HD3	4	0.93	0.5	1.08
(3,876)	1:10:A:ARG:HD3	1:81:A:ASN:HD21	4	0.83	0.3	0.88
(3,876)	1:10:A:ARG:HD2	1:81:A:ASN:HD21	4	0.83	0.3	0.88
(2,611)	1:123:A:ILE:H	1:81:A:ASN:HB3	4	0.81	0.21	0.86
(1,2773)	1:10:A:ARG:HG2	1:83:A:GLY:H	4	0.8	0.26	0.73
(1,1898)	1:115:A:VAL:H	1:114:A:ARG:HG2	4	0.78	0.47	0.72
(1,467)	1:30:A:GLU:HG2	1:30:A:GLU:HA	4	0.78	0.01	0.78
(3,961)	1:30:A:GLU:HG2	1:29:A:GLY:H	4	0.75	0.46	0.52
(3,125)	1:44:A:ASP:HB2	1:46:A:TYR:HD1	4	0.68	0.36	0.6
(3,125)	1:44:A:ASP:HB2	1:46:A:TYR:HD2	4	0.68	0.36	0.6
(3,125)	1:13:A:TYR:HD2	1:45:A:LYS:HE3	4	0.68	0.36	0.6
(3,125)	1:13:A:TYR:HD1	1:45:A:LYS:HE3	4	0.68	0.36	0.6
(1,3652)	1:22:A:LYS:H	1:22:A:LYS:HE2	4	0.63	0.19	0.7
(3,122)	1:44:A:ASP:HB3	1:43:A:ILE:HG22	4	0.59	0.39	0.48
(3,122)	1:40:A:LYS:HE2	1:38:A:ILE:HG23	4	0.59	0.39	0.48
(3,122)	1:40:A:LYS:HE2	1:38:A:ILE:HG21	4	0.59	0.39	0.48
(3,122)	1:44:A:ASP:HB3	1:43:A:ILE:HG21	4	0.59	0.39	0.48
(1,3509)	1:40:A:LYS:HE3	1:41:A:GLU:H	4	0.58	0.32	0.55
(3,582)	1:118:A:ILE:HD11	1:118:A:ILE:H	4	0.56	0.08	0.59
(3,582)	1:118:A:ILE:HD13	1:118:A:ILE:H	4	0.56	0.08	0.59
(1,3414)	1:4:A:GLU:H	1:3:A:GLU:H	4	0.54	0.2	0.54
(1,2792)	1:81:A:ASN:H	1:81:A:ASN:HB3	4	0.52	0.04	0.51
(1,3453)	1:14:A:TRP:HA	1:16:A:GLN:HE22	4	0.5	0.44	0.31
(1,3599)	1:98:A:THR:HG21	1:95:A:ASN:HD22	4	0.5	0.18	0.44
(1,3599)	1:98:A:THR:HG22	1:95:A:ASN:HD22	4	0.5	0.18	0.44
(1,3599)	1:98:A:THR:HG23	1:95:A:ASN:HD22	4	0.5	0.18	0.44
(1,287)	1:20:A:ILE:HD11	1:20:A:ILE:H	4	0.46	0.04	0.46

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,287)	1:20:A:ILE:HD12	1:20:A:ILE:H	4	0.46	0.04	0.46
(1,287)	1:20:A:ILE:HD13	1:20:A:ILE:H	4	0.46	0.04	0.46
(3,379)	1:45:A:LYS:HA	1:46:A:TYR:HD2	4	0.45	0.32	0.44
(3,379)	1:45:A:LYS:HA	1:13:A:TYR:HD2	4	0.45	0.32	0.44
(3,379)	1:45:A:LYS:HA	1:13:A:TYR:HD1	4	0.45	0.32	0.44
(1,2621)	1:97:A:LYS:H	1:97:A:LYS:HD3	4	0.41	0.28	0.3
(1,2621)	1:97:A:LYS:H	1:97:A:LYS:HD2	4	0.41	0.28	0.3
(2,304)	1:105:A:ILE:HB	1:115:A:VAL:HG11	4	0.37	0.06	0.36
(2,304)	1:105:A:ILE:HB	1:115:A:VAL:HG12	4	0.37	0.06	0.36
(2,304)	1:105:A:ILE:HB	1:115:A:VAL:HG13	4	0.37	0.06	0.36
(1,2636)	1:96:A:GLU:H	1:97:A:LYS:HD3	4	0.34	0.25	0.28
(1,2636)	1:96:A:GLU:H	1:97:A:LYS:HD2	4	0.34	0.25	0.28
(1,3753)	1:34:A:LYS:HD2	1:33:A:HIS:HE1	4	0.32	0.15	0.26
(1,3695)	1:68:A:THR:H	1:121:A:GLU:HB3	4	0.32	0.09	0.34
(1,3695)	1:68:A:THR:H	1:121:A:GLU:HB2	4	0.32	0.09	0.34
(3,345)	1:35:A:LYS:H	1:22:A:LYS:HG3	4	0.32	0.08	0.34
(1,3591)	1:98:A:THR:HG21	1:95:A:ASN:HD21	4	0.31	0.2	0.21
(1,3591)	1:98:A:THR:HG22	1:95:A:ASN:HD21	4	0.31	0.2	0.21
(1,3591)	1:98:A:THR:HG23	1:95:A:ASN:HD21	4	0.31	0.2	0.21
(1,106)	1:14:A:TRP:HB3	1:80:A:LEU:HD11	4	0.3	0.13	0.29
(1,106)	1:14:A:TRP:HB3	1:80:A:LEU:HD12	4	0.3	0.13	0.29
(1,106)	1:14:A:TRP:HB3	1:80:A:LEU:HD13	4	0.3	0.13	0.29
(1,3449)	1:15:A:LEU:H	1:14:A:TRP:HE1	4	0.29	0.16	0.28
(1,704)	1:44:A:ASP:H	1:43:A:ILE:HG21	4	0.29	0.09	0.28
(1,704)	1:44:A:ASP:H	1:43:A:ILE:HG22	4	0.29	0.09	0.28
(1,704)	1:44:A:ASP:H	1:43:A:ILE:HG23	4	0.29	0.09	0.28
(1,2157)	1:117:A:GLY:HA3	1:100:A:SER:HB3	4	0.27	0.17	0.18
(1,458)	1:61:A:LEU:HD21	1:60:A:LYS:H	4	0.26	0.15	0.22
(1,458)	1:61:A:LEU:HD22	1:60:A:LYS:H	4	0.26	0.15	0.22
(1,458)	1:61:A:LEU:HD23	1:60:A:LYS:H	4	0.26	0.15	0.22
(1,2047)	1:80:A:LEU:HD11	1:124:A:SER:HB2	4	0.26	0.07	0.24
(1,2047)	1:80:A:LEU:HD12	1:124:A:SER:HB2	4	0.26	0.07	0.24
(1,2047)	1:80:A:LEU:HD13	1:124:A:SER:HB2	4	0.26	0.07	0.24
(1,3243)	1:30:A:GLU:HB3	1:33:A:HIS:H	4	0.25	0.12	0.18
(1,3243)	1:30:A:GLU:HB2	1:33:A:HIS:H	4	0.25	0.12	0.18
(3,1174)	1:84:A:TYR:HE2	1:113:A:ARG:HD2	4	0.25	0.05	0.26
(2,609)	1:119:A:GLN:HE21	1:121:A:GLU:HB2	4	0.23	0.04	0.22
(1,3122)	1:45:A:LYS:H	1:42:A:VAL:HG21	4	0.22	0.08	0.2
(1,3122)	1:45:A:LYS:H	1:42:A:VAL:HG22	4	0.22	0.08	0.2
(1,3122)	1:45:A:LYS:H	1:42:A:VAL:HG23	4	0.22	0.08	0.2
(2,357)	1:113:A:ARG:HA	1:115:A:VAL:HG11	4	0.22	0.06	0.2
(2,357)	1:113:A:ARG:HA	1:115:A:VAL:HG12	4	0.22	0.06	0.2

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,357)	1:113:A:ARG:HA	1:115:A:VAL:HG13	4	0.22	0.06	0.2
(1,353)	1:35:A:LYS:H	1:23:A:ILE:HD11	4	0.22	0.06	0.2
(1,353)	1:35:A:LYS:H	1:23:A:ILE:HD12	4	0.22	0.06	0.2
(1,353)	1:35:A:LYS:H	1:23:A:ILE:HD13	4	0.22	0.06	0.2
(1,375)	1:23:A:ILE:HG21	1:66:A:LEU:HA	4	0.22	0.08	0.2
(1,375)	1:23:A:ILE:HG22	1:66:A:LEU:HA	4	0.22	0.08	0.2
(1,375)	1:23:A:ILE:HG23	1:66:A:LEU:HA	4	0.22	0.08	0.2
(3,303)	1:102:A:THR:HA	1:103:A:ILE:HD11	4	0.21	0.06	0.21
(3,303)	1:102:A:THR:HA	1:103:A:ILE:HD13	4	0.21	0.06	0.21
(2,626)	1:48:A:ALA:H	1:60:A:LYS:HE3	4	0.2	0.08	0.2
(1,2197)	1:106:A:GLU:HB2	1:105:A:ILE:HA	4	0.19	0.06	0.17
(1,906)	1:58:A:LYS:H	1:57:A:ASP:HB2	4	0.18	0.04	0.18
(3,69)	1:66:A:LEU:HD13	1:21:A:VAL:HB	4	0.18	0.08	0.14
(3,69)	1:66:A:LEU:HD11	1:21:A:VAL:HB	4	0.18	0.08	0.14
(3,69)	1:66:A:LEU:HD12	1:21:A:VAL:HB	4	0.18	0.08	0.14
(1,1997)	1:122:A:ASP:H	1:121:A:GLU:HB2	4	0.18	0.03	0.16
(1,1966)	1:118:A:ILE:HG21	1:122:A:ASP:H	4	0.18	0.04	0.18
(1,1966)	1:118:A:ILE:HG22	1:122:A:ASP:H	4	0.18	0.04	0.18
(1,1966)	1:118:A:ILE:HG23	1:122:A:ASP:H	4	0.18	0.04	0.18
(1,1223)	1:73:A:PRO:HA	1:91:A:LEU:HG	4	0.18	0.05	0.18
(1,1616)	1:98:A:THR:HG21	1:98:A:THR:H	4	0.18	0.05	0.18
(1,1616)	1:98:A:THR:HG22	1:98:A:THR:H	4	0.18	0.05	0.18
(1,1616)	1:98:A:THR:HG23	1:98:A:THR:H	4	0.18	0.05	0.18
(1,2641)	1:95:A:ASN:HD21	1:95:A:ASN:H	4	0.18	0.08	0.15
(1,2283)	1:68:A:THR:HG21	1:21:A:VAL:HG11	4	0.18	0.07	0.16
(1,2283)	1:68:A:THR:HG21	1:21:A:VAL:HG12	4	0.18	0.07	0.16
(1,2283)	1:68:A:THR:HG21	1:21:A:VAL:HG13	4	0.18	0.07	0.16
(1,2283)	1:68:A:THR:HG22	1:21:A:VAL:HG11	4	0.18	0.07	0.16
(1,2283)	1:68:A:THR:HG22	1:21:A:VAL:HG12	4	0.18	0.07	0.16
(1,2283)	1:68:A:THR:HG22	1:21:A:VAL:HG13	4	0.18	0.07	0.16
(1,2283)	1:68:A:THR:HG23	1:21:A:VAL:HG11	4	0.18	0.07	0.16
(1,2283)	1:68:A:THR:HG23	1:21:A:VAL:HG12	4	0.18	0.07	0.16
(1,2283)	1:68:A:THR:HG23	1:21:A:VAL:HG13	4	0.18	0.07	0.16
(3,128)	1:77:A:ILE:HD11	1:123:A:ILE:HG23	4	0.18	0.06	0.17
(3,128)	1:103:A:ILE:HG23	1:123:A:ILE:HG21	4	0.18	0.06	0.17
(3,128)	1:77:A:ILE:HD12	1:123:A:ILE:HG22	4	0.18	0.06	0.17
(3,128)	1:77:A:ILE:HD13	1:123:A:ILE:HG21	4	0.18	0.06	0.17
(1,248)	1:19:A:ILE:HD11	1:14:A:TRP:HZ3	4	0.17	0.05	0.16
(1,248)	1:19:A:ILE:HD12	1:14:A:TRP:HZ3	4	0.17	0.05	0.16
(1,248)	1:19:A:ILE:HD13	1:14:A:TRP:HZ3	4	0.17	0.05	0.16
(1,1777)	1:106:A:GLU:HB3	1:106:A:GLU:H	4	0.16	0.04	0.16
(1,3705)	1:75:A:LYS:H	1:91:A:LEU:HA	4	0.16	0.04	0.15

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,654)	1:15:A:LEU:HB2	1:42:A:VAL:HG11	4	0.15	0.03	0.15
(1,654)	1:15:A:LEU:HB2	1:42:A:VAL:HG12	4	0.15	0.03	0.15
(1,654)	1:15:A:LEU:HB2	1:42:A:VAL:HG13	4	0.15	0.03	0.15
(3,816)	1:77:A:ILE:H	1:91:A:LEU:H	4	0.15	0.03	0.15
(1,3752)	1:34:A:LYS:HG2	1:33:A:HIS:HE1	4	0.15	0.04	0.14
(1,1716)	1:103:A:ILE:HG21	1:102:A:THR:HA	4	0.14	0.04	0.12
(1,1716)	1:103:A:ILE:HG22	1:102:A:THR:HA	4	0.14	0.04	0.12
(1,1716)	1:103:A:ILE:HG23	1:102:A:THR:HA	4	0.14	0.04	0.12
(1,1386)	1:81:A:ASN:HA	1:81:A:ASN:HB2	4	0.14	0.01	0.15
(1,2049)	1:19:A:ILE:HB	1:124:A:SER:HB2	4	0.13	0.01	0.14
(1,288)	1:20:A:ILE:H	1:20:A:ILE:HG12	4	0.12	0.01	0.11
(1,862)	1:53:A:ILE:HB	1:53:A:ILE:HD11	4	0.12	0.02	0.11
(1,862)	1:53:A:ILE:HB	1:53:A:ILE:HD12	4	0.12	0.02	0.11
(1,862)	1:53:A:ILE:HB	1:53:A:ILE:HD13	4	0.12	0.02	0.11
(1,23)	1:7:A:ARG:HA	1:7:A:ARG:HD3	3	1.28	0.05	1.27
(1,48)	1:3:A:GLU:HB2	1:8:A:THR:HB	3	1.18	0.09	1.24
(1,48)	1:3:A:GLU:HB3	1:8:A:THR:HB	3	1.18	0.09	1.24
(3,1140)	1:45:A:LYS:H	1:45:A:LYS:HD2	3	0.95	0.19	1.06
(3,780)	1:45:A:LYS:HA	1:45:A:LYS:HD3	3	0.85	0.51	1.21
(1,59)	1:10:A:ARG:HB2	1:81:A:ASN:HD21	3	0.84	0.28	0.86
(3,1144)	1:45:A:LYS:H	1:45:A:LYS:HD2	3	0.81	0.19	0.92
(1,2591)	1:95:A:ASN:HB2	1:100:A:SER:H	3	0.77	0.25	0.6
(1,3422)	1:10:A:ARG:H	1:11:A:THR:HG21	3	0.75	0.35	0.99
(1,3422)	1:10:A:ARG:H	1:11:A:THR:HG22	3	0.75	0.35	0.99
(1,3422)	1:10:A:ARG:H	1:11:A:THR:HG23	3	0.75	0.35	0.99
(1,3061)	1:52:A:MET:H	1:52:A:MET:HG2	3	0.71	0.03	0.72
(1,2239)	1:10:A:ARG:HG2	1:82:A:GLY:HA3	3	0.64	0.46	0.49
(3,32)	1:22:A:LYS:HD2	1:34:A:LYS:HA	3	0.61	0.04	0.63
(3,32)	1:34:A:LYS:HA	1:34:A:LYS:HD2	3	0.61	0.04	0.63
(3,560)	1:31:A:LYS:HG3	1:33:A:HIS:H	3	0.59	0.22	0.72
(3,560)	1:34:A:LYS:HG3	1:33:A:HIS:H	3	0.59	0.22	0.72
(1,1663)	1:91:A:LEU:HD21	1:101:A:ALA:HB1	3	0.59	0.46	0.4
(1,1663)	1:91:A:LEU:HD21	1:101:A:ALA:HB2	3	0.59	0.46	0.4
(1,1663)	1:91:A:LEU:HD21	1:101:A:ALA:HB3	3	0.59	0.46	0.4
(1,1663)	1:91:A:LEU:HD22	1:101:A:ALA:HB1	3	0.59	0.46	0.4
(1,1663)	1:91:A:LEU:HD22	1:101:A:ALA:HB2	3	0.59	0.46	0.4
(1,1663)	1:91:A:LEU:HD22	1:101:A:ALA:HB3	3	0.59	0.46	0.4
(1,1663)	1:91:A:LEU:HD23	1:101:A:ALA:HB1	3	0.59	0.46	0.4
(1,1663)	1:91:A:LEU:HD23	1:101:A:ALA:HB2	3	0.59	0.46	0.4
(1,1663)	1:91:A:LEU:HD23	1:101:A:ALA:HB3	3	0.59	0.46	0.4
(1,3560)	1:10:A:ARG:HB2	1:81:A:ASN:HD21	3	0.55	0.28	0.57
(1,2604)	1:95:A:ASN:HB2	1:99:A:PHE:H	3	0.54	0.34	0.39

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,414)	1:22:A:LYS:HD2	1:34:A:LYS:HA	3	0.53	0.04	0.56
(3,414)	1:34:A:LYS:HA	1:34:A:LYS:HD2	3	0.53	0.04	0.56
(3,1181)	1:55:A:SER:HB3	1:57:A:ASP:HB2	3	0.51	0.13	0.51
(1,829)	1:52:A:MET:H	1:52:A:MET:HG3	3	0.48	0.0	0.48
(3,975)	1:97:A:LYS:HB2	1:98:A:THR:HG22	3	0.47	0.17	0.54
(3,975)	1:97:A:LYS:HB2	1:98:A:THR:HG21	3	0.47	0.17	0.54
(3,975)	1:77:A:ILE:HB	1:123:A:ILE:HG21	3	0.47	0.17	0.54
(1,2158)	1:117:A:GLY:HA3	1:100:A:SER:HB2	3	0.47	0.1	0.53
(1,3063)	1:52:A:MET:H	1:32:A:TYR:HE1	3	0.46	0.17	0.35
(1,3063)	1:52:A:MET:H	1:32:A:TYR:HE2	3	0.46	0.17	0.35
(1,739)	1:45:A:LYS:HG2	1:45:A:LYS:HE2	3	0.45	0.02	0.45
(1,1519)	1:73:A:PRO:HA	1:91:A:LEU:HD11	3	0.44	0.38	0.22
(1,1519)	1:73:A:PRO:HA	1:91:A:LEU:HD12	3	0.44	0.38	0.22
(1,1519)	1:73:A:PRO:HA	1:91:A:LEU:HD13	3	0.44	0.38	0.22
(1,3725)	1:95:A:ASN:HD22	1:95:A:ASN:H	3	0.44	0.04	0.41
(1,3493)	1:26:A:LYS:HB2	1:33:A:HIS:H	3	0.42	0.32	0.21
(2,589)	1:82:A:GLY:HA3	1:11:A:THR:H	3	0.4	0.15	0.33
(3,1183)	1:55:A:SER:HB3	1:57:A:ASP:HB2	3	0.38	0.13	0.39
(3,919)	1:65:A:HIS:HE1	1:27:A:LYS:HD2	3	0.36	0.16	0.46
(3,919)	1:27:A:LYS:HD3	1:65:A:HIS:HE1	3	0.36	0.16	0.46
(3,919)	1:75:A:LYS:HD3	1:72:A:ALA:H	3	0.36	0.16	0.46
(1,3849)	1:84:A:TYR:HE1	1:105:A:ILE:HD11	3	0.35	0.15	0.36
(1,3849)	1:84:A:TYR:HE1	1:105:A:ILE:HD12	3	0.35	0.15	0.36
(1,3849)	1:84:A:TYR:HE1	1:105:A:ILE:HD13	3	0.35	0.15	0.36
(1,3849)	1:84:A:TYR:HE2	1:105:A:ILE:HD11	3	0.35	0.15	0.36
(1,3849)	1:84:A:TYR:HE2	1:105:A:ILE:HD12	3	0.35	0.15	0.36
(1,3849)	1:84:A:TYR:HE2	1:105:A:ILE:HD13	3	0.35	0.15	0.36
(1,3592)	1:95:A:ASN:HA	1:95:A:ASN:HD22	3	0.35	0.1	0.3
(1,2865)	1:75:A:LYS:H	1:71:A:PRO:HB2	3	0.34	0.33	0.11
(1,2494)	1:108:A:GLY:H	1:111:A:LYS:HE3	3	0.33	0.14	0.27
(3,21)	1:126:A:LEU:HD22	1:88:A:GLU:HG2	3	0.32	0.16	0.27
(3,21)	1:126:A:LEU:HD21	1:88:A:GLU:HG2	3	0.32	0.16	0.27
(3,782)	1:96:A:GLU:HB2	1:94:A:ILE:HD11	3	0.32	0.07	0.36
(3,782)	1:96:A:GLU:HB2	1:94:A:ILE:HD12	3	0.32	0.07	0.36
(3,782)	1:96:A:GLU:HB2	1:94:A:ILE:HD13	3	0.32	0.07	0.36
(3,782)	1:96:A:GLU:HB3	1:94:A:ILE:HD11	3	0.32	0.07	0.36
(3,782)	1:96:A:GLU:HB3	1:94:A:ILE:HD12	3	0.32	0.07	0.36
(3,782)	1:96:A:GLU:HB3	1:94:A:ILE:HD13	3	0.32	0.07	0.36
(1,2880)	1:75:A:LYS:HB3	1:72:A:ALA:H	3	0.31	0.23	0.17
(3,1221)	1:61:A:LEU:HD11	1:59:A:LEU:HD11	3	0.31	0.12	0.36
(3,1221)	1:61:A:LEU:HD11	1:59:A:LEU:HD13	3	0.31	0.12	0.36
(3,1221)	1:61:A:LEU:HD13	1:59:A:LEU:HD11	3	0.31	0.12	0.36

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1316)	1:126:A:LEU:H	1:77:A:ILE:HG21	3	0.3	0.14	0.21
(1,1316)	1:126:A:LEU:H	1:77:A:ILE:HG22	3	0.3	0.14	0.21
(1,1316)	1:126:A:LEU:H	1:77:A:ILE:HG23	3	0.3	0.14	0.21
(1,1896)	1:114:A:ARG:HA	1:114:A:ARG:HG2	3	0.3	0.13	0.38
(1,3656)	1:32:A:TYR:HB2	1:27:A:LYS:H	3	0.3	0.2	0.16
(2,650)	1:61:A:LEU:HB2	1:65:A:HIS:HD2	3	0.29	0.22	0.18
(3,1184)	1:55:A:SER:HB3	1:57:A:ASP:HB2	3	0.28	0.13	0.29
(1,270)	1:126:A:LEU:HA	1:19:A:ILE:HG21	3	0.28	0.13	0.19
(1,270)	1:126:A:LEU:HA	1:19:A:ILE:HG22	3	0.28	0.13	0.19
(1,270)	1:126:A:LEU:HA	1:19:A:ILE:HG23	3	0.28	0.13	0.19
(1,3126)	1:44:A:ASP:H	1:47:A:THR:HA	3	0.28	0.04	0.28
(3,23)	1:127:A:ALA:HB3	1:18:A:GLU:H	3	0.27	0.06	0.29
(3,23)	1:127:A:ALA:HB2	1:18:A:GLU:H	3	0.27	0.06	0.29
(3,23)	1:127:A:ALA:HB1	1:18:A:GLU:H	3	0.27	0.06	0.29
(3,348)	1:7:A:ARG:HD2	1:7:A:ARG:H	3	0.27	0.06	0.31
(3,348)	1:113:A:ARG:H	1:113:A:ARG:HD2	3	0.27	0.06	0.31
(1,832)	1:52:A:MET:H	1:52:A:MET:HG2	3	0.26	0.03	0.27
(1,881)	1:54:A:ASP:HA	1:53:A:ILE:HG21	3	0.26	0.08	0.24
(1,881)	1:54:A:ASP:HA	1:53:A:ILE:HG22	3	0.26	0.08	0.24
(1,881)	1:54:A:ASP:HA	1:53:A:ILE:HG23	3	0.26	0.08	0.24
(1,1742)	1:84:A:TYR:HB2	1:105:A:ILE:HD11	3	0.25	0.09	0.22
(1,1742)	1:84:A:TYR:HB2	1:105:A:ILE:HD12	3	0.25	0.09	0.22
(1,1742)	1:84:A:TYR:HB2	1:105:A:ILE:HD13	3	0.25	0.09	0.22
(1,2571)	1:117:A:GLY:HA2	1:101:A:ALA:H	3	0.25	0.16	0.17
(1,3391)	1:11:A:THR:H	1:81:A:ASN:HD22	3	0.25	0.04	0.26
(1,1051)	1:63:A:GLN:HG2	1:64:A:THR:HG21	3	0.24	0.09	0.3
(1,1051)	1:63:A:GLN:HG2	1:64:A:THR:HG22	3	0.24	0.09	0.3
(1,1051)	1:63:A:GLN:HG2	1:64:A:THR:HG23	3	0.24	0.09	0.3
(1,2137)	1:119:A:GLN:HG2	1:100:A:SER:HB2	3	0.23	0.05	0.22
(2,617)	1:24:A:ILE:HA	1:33:A:HIS:H	3	0.23	0.03	0.24
(1,1638)	1:118:A:ILE:H	1:100:A:SER:HB2	3	0.22	0.1	0.18
(3,489)	1:82:A:GLY:HA3	1:81:A:ASN:HB3	3	0.22	0.09	0.23
(3,489)	1:51:A:LYS:HE3	1:56:A:GLY:HA3	3	0.22	0.09	0.23
(3,140)	1:78:A:LEU:HD21	1:88:A:GLU:HG3	3	0.21	0.06	0.19
(3,140)	1:78:A:LEU:HD22	1:88:A:GLU:HG3	3	0.21	0.06	0.19
(3,140)	1:24:A:ILE:HG21	1:67:A:GLU:HG2	3	0.21	0.06	0.19
(1,3133)	1:44:A:ASP:H	1:43:A:ILE:HG12	3	0.21	0.04	0.19
(1,3468)	1:80:A:LEU:HD21	1:16:A:GLN:HE21	3	0.2	0.02	0.21
(1,3468)	1:80:A:LEU:HD22	1:16:A:GLN:HE21	3	0.2	0.02	0.21
(1,3468)	1:80:A:LEU:HD23	1:16:A:GLN:HE21	3	0.2	0.02	0.21
(1,2788)	1:81:A:ASN:H	1:84:A:TYR:H	3	0.2	0.09	0.16
(1,3021)	1:51:A:LYS:HD2	1:57:A:ASP:H	3	0.2	0.03	0.21

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1971)	1:119:A:GLN:HA	1:101:A:ALA:H	3	0.19	0.04	0.17
(1,1)	1:107:A:THR:HB	1:108:A:GLY:H	3	0.19	0.07	0.17
(1,2339)	1:77:A:ILE:HA	1:124:A:SER:H	3	0.19	0.03	0.18
(1,2193)	1:107:A:THR:HG21	1:87:A:ASN:HA	3	0.18	0.09	0.12
(1,2193)	1:107:A:THR:HG22	1:87:A:ASN:HA	3	0.18	0.09	0.12
(1,2193)	1:107:A:THR:HG23	1:87:A:ASN:HA	3	0.18	0.09	0.12
(3,523)	1:20:A:ILE:HG22	1:127:A:ALA:HA	3	0.18	0.01	0.17
(1,2831)	1:78:A:LEU:H	1:123:A:ILE:HB	3	0.17	0.02	0.17
(1,1138)	1:79:A:VAL:HG11	1:87:A:ASN:HB3	3	0.17	0.01	0.17
(1,1138)	1:79:A:VAL:HG12	1:87:A:ASN:HB3	3	0.17	0.01	0.17
(1,1138)	1:79:A:VAL:HG13	1:87:A:ASN:HB3	3	0.17	0.01	0.17
(1,1836)	1:110:A:LEU:HB2	1:105:A:ILE:HD11	3	0.16	0.04	0.19
(1,1836)	1:110:A:LEU:HB2	1:105:A:ILE:HD12	3	0.16	0.04	0.19
(1,1836)	1:110:A:LEU:HB2	1:105:A:ILE:HD13	3	0.16	0.04	0.19
(1,2448)	1:115:A:VAL:H	1:103:A:ILE:HG13	3	0.16	0.04	0.13
(1,2769)	1:84:A:TYR:H	1:105:A:ILE:HD11	3	0.16	0.04	0.13
(1,2769)	1:84:A:TYR:H	1:105:A:ILE:HD12	3	0.16	0.04	0.13
(1,2769)	1:84:A:TYR:H	1:105:A:ILE:HD13	3	0.16	0.04	0.13
(3,1146)	1:115:A:VAL:HA	1:103:A:ILE:H	3	0.15	0.02	0.14
(1,1678)	1:102:A:THR:HG21	1:103:A:ILE:HA	3	0.14	0.02	0.14
(1,1678)	1:102:A:THR:HG22	1:103:A:ILE:HA	3	0.14	0.02	0.14
(1,1678)	1:102:A:THR:HG23	1:103:A:ILE:HA	3	0.14	0.02	0.14
(1,922)	1:60:A:LYS:HE2	1:60:A:LYS:HA	3	0.14	0.03	0.14
(1,3665)	1:48:A:ALA:HB1	1:42:A:VAL:H	3	0.14	0.0	0.14
(1,3665)	1:48:A:ALA:HB2	1:42:A:VAL:H	3	0.14	0.0	0.14
(1,3665)	1:48:A:ALA:HB3	1:42:A:VAL:H	3	0.14	0.0	0.14
(1,1946)	1:117:A:GLY:HA3	1:116:A:GLU:HB3	3	0.13	0.03	0.12
(1,401)	1:23:A:ILE:HA	1:24:A:ILE:HG21	3	0.13	0.02	0.12
(1,401)	1:23:A:ILE:HA	1:24:A:ILE:HG22	3	0.13	0.02	0.12
(1,401)	1:23:A:ILE:HA	1:24:A:ILE:HG23	3	0.13	0.02	0.12
(1,1441)	1:85:A:ARG:HB3	1:86:A:GLY:H	3	0.13	0.02	0.12
(1,1947)	1:117:A:GLY:HA3	1:116:A:GLU:HA	3	0.13	0.03	0.11
(1,2368)	1:119:A:GLN:HA	1:121:A:GLU:H	3	0.12	0.01	0.13
(1,788)	1:49:A:VAL:HG21	1:48:A:ALA:HA	3	0.12	0.01	0.12
(1,788)	1:49:A:VAL:HG22	1:48:A:ALA:HA	3	0.12	0.01	0.12
(1,788)	1:49:A:VAL:HG23	1:48:A:ALA:HA	3	0.12	0.01	0.12
(1,3213)	1:36:A:LYS:H	1:35:A:LYS:H	3	0.11	0.01	0.12
(3,534)	1:82:A:GLY:H	1:81:A:ASN:H	3	0.11	0.0	0.11
(1,28)	1:7:A:ARG:HB2	1:7:A:ARG:HG3	3	0.1	0.0	0.1
(1,28)	1:7:A:ARG:HB3	1:7:A:ARG:HG2	3	0.1	0.0	0.1
(1,963)	1:34:A:LYS:HE2	1:33:A:HIS:HE1	2	1.64	0.38	1.64
(1,2096)	1:125:A:LYS:HE2	1:127:A:ALA:HA	2	1.62	0.82	1.62

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3755)	1:34:A:LYS:HE2	1:33:A:HIS:HE1	2	1.54	0.38	1.54
(1,2107)	1:126:A:LEU:HD21	1:88:A:GLU:HB3	2	1.35	0.1	1.35
(1,2107)	1:126:A:LEU:HD22	1:88:A:GLU:HB3	2	1.35	0.1	1.35
(1,2107)	1:126:A:LEU:HD23	1:88:A:GLU:HB3	2	1.35	0.1	1.35
(1,1790)	1:107:A:THR:HG21	1:88:A:GLU:HG3	2	1.26	0.02	1.26
(1,1790)	1:107:A:THR:HG22	1:88:A:GLU:HG3	2	1.26	0.02	1.26
(1,1790)	1:107:A:THR:HG23	1:88:A:GLU:HG3	2	1.26	0.02	1.26
(3,1179)	1:27:A:LYS:HA	1:27:A:LYS:HD2	2	1.26	0.02	1.26
(1,452)	1:28:A:LEU:HD11	1:60:A:LYS:H	2	1.23	0.1	1.23
(1,452)	1:28:A:LEU:HD12	1:60:A:LYS:H	2	1.23	0.1	1.23
(1,452)	1:28:A:LEU:HD13	1:60:A:LYS:H	2	1.23	0.1	1.23
(1,2720)	1:88:A:GLU:HG3	1:88:A:GLU:H	2	1.16	0.04	1.16
(1,1317)	1:31:A:LYS:HG2	1:32:A:TYR:H	2	1.05	0.03	1.05
(1,3253)	1:31:A:LYS:HG2	1:32:A:TYR:H	2	1.02	0.03	1.02
(1,3837)	1:11:A:THR:HB	1:13:A:TYR:HE1	2	1.0	0.01	1.0
(1,3837)	1:11:A:THR:HB	1:13:A:TYR:HE2	2	1.0	0.01	1.0
(1,2697)	1:106:A:GLU:HG2	1:90:A:THR:H	2	1.0	0.26	1.0
(1,75)	1:11:A:THR:HB	1:13:A:TYR:HD1	2	0.97	0.12	0.97
(1,75)	1:11:A:THR:HB	1:13:A:TYR:HD2	2	0.97	0.12	0.97
(3,555)	1:12:A:ASP:HB2	1:46:A:TYR:HE2	2	0.95	0.68	0.95
(1,426)	1:91:A:LEU:HD21	1:102:A:THR:H	2	0.94	0.78	0.94
(1,426)	1:91:A:LEU:HD22	1:102:A:THR:H	2	0.94	0.78	0.94
(1,426)	1:91:A:LEU:HD23	1:102:A:THR:H	2	0.94	0.78	0.94
(3,635)	1:23:A:ILE:HG22	1:24:A:ILE:H	2	0.92	0.09	0.92
(1,170)	1:78:A:LEU:HD11	1:16:A:GLN:HG3	2	0.91	0.47	0.91
(1,170)	1:78:A:LEU:HD12	1:16:A:GLN:HG3	2	0.91	0.47	0.91
(1,170)	1:78:A:LEU:HD13	1:16:A:GLN:HG3	2	0.91	0.47	0.91
(1,2217)	1:10:A:ARG:HB2	1:11:A:THR:HG21	2	0.88	0.2	0.88
(1,2217)	1:10:A:ARG:HB2	1:11:A:THR:HG22	2	0.88	0.2	0.88
(1,2217)	1:10:A:ARG:HB2	1:11:A:THR:HG23	2	0.88	0.2	0.88
(1,1729)	1:106:A:GLU:HG2	1:105:A:ILE:HA	2	0.86	0.12	0.86
(2,365)	1:107:A:THR:HB	1:88:A:GLU:HG3	2	0.84	0.01	0.84
(2,366)	1:107:A:THR:HB	1:88:A:GLU:HG3	2	0.84	0.01	0.84
(1,1617)	1:98:A:THR:HG21	1:98:A:THR:HA	2	0.8	0.0	0.8
(1,1617)	1:98:A:THR:HG22	1:98:A:THR:HA	2	0.8	0.0	0.8
(1,1617)	1:98:A:THR:HG23	1:98:A:THR:HA	2	0.8	0.0	0.8
(2,590)	1:7:A:ARG:HB2	1:9:A:ALA:H	2	0.76	0.35	0.76
(3,1139)	1:45:A:LYS:HA	1:45:A:LYS:HD3	2	0.7	0.01	0.7
(2,46)	1:22:A:LYS:HE2	1:24:A:ILE:HA	2	0.67	0.02	0.67
(3,354)	1:115:A:VAL:H	1:118:A:ILE:HG13	2	0.67	0.04	0.67
(3,354)	1:115:A:VAL:H	1:114:A:ARG:HG3	2	0.67	0.04	0.67
(1,926)	1:58:A:LYS:HG3	1:59:A:LEU:H	2	0.66	0.56	0.66

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,1156)	1:10:A:ARG:HG2	1:10:A:ARG:H	2	0.66	0.3	0.66
(3,1156)	1:9:A:ALA:HB2	1:10:A:ARG:H	2	0.66	0.3	0.66
(1,2784)	1:82:A:GLY:H	1:10:A:ARG:HG2	2	0.6	0.22	0.6
(1,2536)	1:106:A:GLU:HG2	1:104:A:VAL:H	2	0.58	0.01	0.58
(1,2584)	1:100:A:SER:H	1:119:A:GLN:HE22	2	0.58	0.25	0.58
(1,441)	1:28:A:LEU:HD21	1:28:A:LEU:HA	2	0.57	0.03	0.57
(1,441)	1:28:A:LEU:HD22	1:28:A:LEU:HA	2	0.57	0.03	0.57
(1,441)	1:28:A:LEU:HD23	1:28:A:LEU:HA	2	0.57	0.03	0.57
(1,3399)	1:11:A:THR:H	1:11:A:THR:HG21	2	0.57	0.04	0.57
(1,3399)	1:11:A:THR:H	1:11:A:THR:HG22	2	0.57	0.04	0.57
(1,3399)	1:11:A:THR:H	1:11:A:THR:HG23	2	0.57	0.04	0.57
(1,477)	1:31:A:LYS:HB2	1:31:A:LYS:HA	2	0.56	0.0	0.56
(3,1049)	1:109:A:PRO:HA	1:109:A:PRO:HG2	2	0.54	0.01	0.54
(3,800)	1:52:A:MET:H	1:52:A:MET:HG3	2	0.52	0.02	0.52
(1,3522)	1:40:A:LYS:HE3	1:51:A:LYS:H	2	0.52	0.1	0.52
(3,240)	1:109:A:PRO:HA	1:109:A:PRO:HG2	2	0.52	0.01	0.52
(1,1481)	1:88:A:GLU:HG3	1:88:A:GLU:H	2	0.51	0.04	0.51
(3,615)	1:105:A:ILE:HA	1:87:A:ASN:HB2	2	0.51	0.34	0.51
(3,615)	1:26:A:LYS:HE3	1:30:A:GLU:HA	2	0.51	0.34	0.51
(1,2708)	1:88:A:GLU:HB3	1:89:A:GLY:H	2	0.5	0.01	0.5
(1,1478)	1:126:A:LEU:HD21	1:88:A:GLU:HB3	2	0.48	0.1	0.48
(1,1478)	1:126:A:LEU:HD22	1:88:A:GLU:HB3	2	0.48	0.1	0.48
(1,1478)	1:126:A:LEU:HD23	1:88:A:GLU:HB3	2	0.48	0.1	0.48
(2,386)	1:95:A:ASN:HB2	1:99:A:PHE:HA	2	0.48	0.28	0.48
(1,896)	1:51:A:LYS:HE2	1:56:A:GLY:HA2	2	0.44	0.25	0.44
(1,817)	1:51:A:LYS:HG2	1:56:A:GLY:HA3	2	0.44	0.16	0.44
(1,817)	1:51:A:LYS:HG3	1:56:A:GLY:HA3	2	0.44	0.16	0.44
(3,1095)	1:26:A:LYS:HB3	1:25:A:THR:H	2	0.42	0.18	0.42
(3,1095)	1:27:A:LYS:HB3	1:25:A:THR:H	2	0.42	0.18	0.42
(3,174)	1:96:A:GLU:HB2	1:97:A:LYS:H	2	0.42	0.01	0.42
(1,3501)	1:40:A:LYS:HE3	1:38:A:ILE:H	2	0.42	0.28	0.42
(1,18)	1:97:A:LYS:HG3	1:97:A:LYS:HA	2	0.41	0.0	0.41
(3,1068)	1:126:A:LEU:H	1:76:A:ARG:HB2	2	0.39	0.24	0.39
(1,1810)	1:109:A:PRO:HB2	1:109:A:PRO:HD2	2	0.38	0.01	0.38
(1,3777)	1:45:A:LYS:HG2	1:46:A:TYR:HD1	2	0.38	0.06	0.38
(1,3777)	1:45:A:LYS:HG2	1:46:A:TYR:HD2	2	0.38	0.06	0.38
(3,416)	1:5:A:LYS:H	1:4:A:GLU:HG3	2	0.38	0.14	0.38
(3,416)	1:5:A:LYS:H	1:4:A:GLU:HG2	2	0.38	0.14	0.38
(1,2071)	1:126:A:LEU:HB2	1:76:A:ARG:HB3	2	0.38	0.09	0.38
(3,475)	1:32:A:TYR:HB2	1:30:A:GLU:HA	2	0.37	0.25	0.37
(3,475)	1:26:A:LYS:HE3	1:30:A:GLU:HA	2	0.37	0.25	0.37
(3,1154)	1:6:A:LYS:HB3	1:7:A:ARG:H	2	0.37	0.1	0.37

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,1154)	1:7:A:ARG:HB2	1:7:A:ARG:H	2	0.37	0.1	0.37
(1,621)	1:41:A:GLU:HA	1:41:A:GLU:HG3	2	0.36	0.08	0.36
(1,2517)	1:88:A:GLU:HB2	1:106:A:GLU:H	2	0.36	0.02	0.36
(1,3556)	1:10:A:ARG:HB2	1:81:A:ASN:HD21	2	0.36	0.16	0.36
(3,900)	1:34:A:LYS:HE3	1:34:A:LYS:HG3	2	0.36	0.22	0.36
(3,1060)	1:9:A:ALA:HB3	1:9:A:ALA:H	2	0.35	0.05	0.35
(3,1060)	1:9:A:ALA:HB2	1:9:A:ALA:H	2	0.35	0.05	0.35
(1,3098)	1:44:A:ASP:HB2	1:47:A:THR:H	2	0.34	0.06	0.34
(2,419)	1:22:A:LYS:HE2	1:24:A:ILE:HD11	2	0.34	0.0	0.34
(2,419)	1:22:A:LYS:HE2	1:24:A:ILE:HD12	2	0.34	0.0	0.34
(2,419)	1:22:A:LYS:HE2	1:24:A:ILE:HD13	2	0.34	0.0	0.34
(1,1608)	1:97:A:LYS:HG2	1:97:A:LYS:HA	2	0.34	0.03	0.34
(1,818)	1:51:A:LYS:HG2	1:56:A:GLY:HA3	2	0.34	0.16	0.34
(1,818)	1:51:A:LYS:HG3	1:56:A:GLY:HA3	2	0.34	0.16	0.34
(1,3443)	1:63:A:GLN:HG3	1:14:A:TRP:HE1	2	0.34	0.23	0.34
(1,893)	1:51:A:LYS:HG2	1:56:A:GLY:HA3	2	0.32	0.16	0.32
(1,893)	1:51:A:LYS:HG3	1:56:A:GLY:HA3	2	0.32	0.16	0.32
(1,3842)	1:46:A:TYR:HE1	1:45:A:LYS:HB2	2	0.32	0.1	0.32
(1,3842)	1:46:A:TYR:HE2	1:45:A:LYS:HB2	2	0.32	0.1	0.32
(2,520)	1:78:A:LEU:H	1:88:A:GLU:HG2	2	0.32	0.05	0.32
(1,3015)	1:32:A:TYR:HE1	1:57:A:ASP:H	2	0.31	0.16	0.31
(1,3015)	1:32:A:TYR:HE2	1:57:A:ASP:H	2	0.31	0.16	0.31
(3,865)	1:31:A:LYS:HG2	1:31:A:LYS:HE2	2	0.31	0.0	0.31
(2,591)	1:11:A:THR:H	1:13:A:TYR:HD1	2	0.3	0.04	0.3
(2,591)	1:11:A:THR:H	1:13:A:TYR:HD2	2	0.3	0.04	0.3
(1,3782)	1:11:A:THR:HB	1:13:A:TYR:HD1	2	0.3	0.12	0.3
(1,3782)	1:11:A:THR:HB	1:13:A:TYR:HD2	2	0.3	0.12	0.3
(1,3027)	1:10:A:ARG:HB2	1:81:A:ASN:HD21	2	0.29	0.16	0.29
(1,2622)	1:97:A:LYS:H	1:97:A:LYS:HG3	2	0.27	0.02	0.27
(3,43)	1:77:A:ILE:H	1:77:A:ILE:HD13	2	0.26	0.08	0.26
(3,43)	1:77:A:ILE:H	1:77:A:ILE:HG22	2	0.26	0.08	0.26
(1,423)	1:26:A:LYS:HG3	1:26:A:LYS:HE2	2	0.26	0.01	0.26
(1,423)	1:26:A:LYS:HG2	1:26:A:LYS:HE3	2	0.26	0.01	0.26
(1,1657)	1:101:A:ALA:HB1	1:95:A:ASN:H	2	0.26	0.03	0.26
(1,1657)	1:101:A:ALA:HB2	1:95:A:ASN:H	2	0.26	0.03	0.26
(1,1657)	1:101:A:ALA:HB3	1:95:A:ASN:H	2	0.26	0.03	0.26
(1,2304)	1:104:A:VAL:HG21	1:114:A:ARG:HB3	2	0.25	0.09	0.25
(1,2304)	1:104:A:VAL:HG22	1:114:A:ARG:HB3	2	0.25	0.09	0.25
(1,2304)	1:104:A:VAL:HG23	1:114:A:ARG:HB3	2	0.25	0.09	0.25
(1,2128)	1:70:A:ILE:HD11	1:121:A:GLU:HA	2	0.24	0.1	0.24
(1,2128)	1:70:A:ILE:HD12	1:121:A:GLU:HA	2	0.24	0.1	0.24
(1,2128)	1:70:A:ILE:HD13	1:121:A:GLU:HA	2	0.24	0.1	0.24

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3499)	1:37:A:ALA:H	1:36:A:LYS:HE2	2	0.24	0.03	0.24
(1,3402)	1:9:A:ALA:HA	1:10:A:ARG:H	2	0.23	0.1	0.23
(1,2271)	1:28:A:LEU:HD21	1:28:A:LEU:HA	2	0.22	0.03	0.22
(1,2271)	1:28:A:LEU:HD22	1:28:A:LEU:HA	2	0.22	0.03	0.22
(1,2271)	1:28:A:LEU:HD23	1:28:A:LEU:HA	2	0.22	0.03	0.22
(1,3759)	1:27:A:LYS:HG3	1:65:A:HIS:HE1	2	0.22	0.02	0.22
(1,3415)	1:7:A:ARG:HG3	1:7:A:ARG:H	2	0.22	0.1	0.22
(1,2242)	1:94:A:ILE:HB	1:70:A:ILE:HG21	2	0.21	0.04	0.21
(1,2242)	1:94:A:ILE:HB	1:70:A:ILE:HG22	2	0.21	0.04	0.21
(1,2242)	1:94:A:ILE:HB	1:70:A:ILE:HG23	2	0.21	0.04	0.21
(1,2172)	1:113:A:ARG:HB3	1:105:A:ILE:HG21	2	0.2	0.06	0.2
(1,2172)	1:113:A:ARG:HB3	1:105:A:ILE:HG22	2	0.2	0.06	0.2
(1,2172)	1:113:A:ARG:HB3	1:105:A:ILE:HG23	2	0.2	0.06	0.2
(1,1434)	1:85:A:ARG:HA	1:81:A:ASN:HA	2	0.2	0.06	0.2
(1,2196)	1:106:A:GLU:HB2	1:105:A:ILE:HA	2	0.2	0.04	0.2
(1,3696)	1:68:A:THR:H	1:14:A:TRP:HZ2	2	0.2	0.02	0.2
(1,1555)	1:93:A:SER:HA	1:73:A:PRO:HG2	2	0.19	0.03	0.19
(1,2843)	1:105:A:ILE:HG21	1:112:A:GLY:H	2	0.19	0.01	0.19
(1,2843)	1:105:A:ILE:HG22	1:112:A:GLY:H	2	0.19	0.01	0.19
(1,2843)	1:105:A:ILE:HG23	1:112:A:GLY:H	2	0.19	0.01	0.19
(1,3136)	1:44:A:ASP:H	1:42:A:VAL:HG21	2	0.19	0.06	0.19
(1,3136)	1:44:A:ASP:H	1:42:A:VAL:HG22	2	0.19	0.06	0.19
(1,3136)	1:44:A:ASP:H	1:42:A:VAL:HG23	2	0.19	0.06	0.19
(3,820)	1:93:A:SER:H	1:92:A:GLU:HG2	2	0.19	0.07	0.19
(3,820)	1:117:A:GLY:H	1:116:A:GLU:HG2	2	0.19	0.07	0.19
(3,988)	1:96:A:GLU:HA	1:99:A:PHE:H	2	0.18	0.02	0.18
(1,3389)	1:82:A:GLY:H	1:11:A:THR:H	2	0.18	0.05	0.18
(1,3397)	1:10:A:ARG:HB3	1:11:A:THR:H	2	0.18	0.02	0.18
(3,721)	1:51:A:LYS:HG3	1:57:A:ASP:HA	2	0.18	0.07	0.18
(1,1426)	1:85:A:ARG:HA	1:87:A:ASN:H	2	0.18	0.06	0.18
(1,3635)	1:64:A:THR:H	1:62:A:ASP:H	2	0.18	0.08	0.18
(3,644)	1:3:A:GLU:HA	1:4:A:GLU:H	2	0.18	0.0	0.18
(3,1226)	1:93:A:SER:H	1:92:A:GLU:HG2	2	0.18	0.08	0.18
(3,1226)	1:117:A:GLY:H	1:116:A:GLU:HG2	2	0.18	0.08	0.18
(1,2459)	1:113:A:ARG:H	1:107:A:THR:H	2	0.17	0.03	0.17
(1,574)	1:39:A:VAL:HG11	1:40:A:LYS:H	2	0.17	0.04	0.17
(1,574)	1:39:A:VAL:HG12	1:40:A:LYS:H	2	0.17	0.04	0.17
(1,574)	1:39:A:VAL:HG13	1:40:A:LYS:H	2	0.17	0.04	0.17
(1,3028)	1:51:A:LYS:HG2	1:56:A:GLY:H	2	0.17	0.05	0.17
(1,70)	1:11:A:THR:HA	1:11:A:THR:HB	2	0.16	0.01	0.16
(1,1301)	1:125:A:LYS:HA	1:77:A:ILE:HB	2	0.16	0.04	0.16
(3,1034)	1:23:A:ILE:HD11	1:32:A:TYR:HA	2	0.16	0.01	0.16

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2102)	1:126:A:LEU:HD21	1:77:A:ILE:H	2	0.16	0.05	0.16
(1,2102)	1:126:A:LEU:HD22	1:77:A:ILE:H	2	0.16	0.05	0.16
(1,2102)	1:126:A:LEU:HD23	1:77:A:ILE:H	2	0.16	0.05	0.16
(2,361)	1:84:A:TYR:HB2	1:103:A:ILE:HG13	2	0.16	0.02	0.16
(1,2573)	1:101:A:ALA:H	1:100:A:SER:HB2	2	0.16	0.05	0.16
(1,3255)	1:31:A:LYS:HG3	1:32:A:TYR:H	2	0.16	0.02	0.16
(1,2411)	1:118:A:ILE:H	1:101:A:ALA:HA	2	0.15	0.01	0.15
(3,167)	1:118:A:ILE:HG23	1:122:A:ASP:H	2	0.15	0.04	0.15
(3,167)	1:118:A:ILE:HG22	1:122:A:ASP:H	2	0.15	0.04	0.15
(1,24)	1:7:A:ARG:HA	1:7:A:ARG:HB3	2	0.14	0.0	0.14
(1,455)	1:28:A:LEU:HD11	1:28:A:LEU:HB3	2	0.14	0.01	0.14
(1,455)	1:28:A:LEU:HD12	1:28:A:LEU:HB3	2	0.14	0.01	0.14
(1,455)	1:28:A:LEU:HD13	1:28:A:LEU:HB3	2	0.14	0.01	0.14
(2,407)	1:42:A:VAL:HG11	1:44:A:ASP:HA	2	0.14	0.02	0.14
(2,407)	1:42:A:VAL:HG12	1:44:A:ASP:HA	2	0.14	0.02	0.14
(2,407)	1:42:A:VAL:HG13	1:44:A:ASP:HA	2	0.14	0.02	0.14
(3,965)	1:95:A:ASN:H	1:101:A:ALA:H	2	0.14	0.01	0.14
(1,1667)	1:102:A:THR:HA	1:116:A:GLU:HG2	2	0.13	0.03	0.13
(1,2750)	1:79:A:VAL:HG21	1:86:A:GLY:H	2	0.13	0.01	0.13
(1,2750)	1:79:A:VAL:HG22	1:86:A:GLY:H	2	0.13	0.01	0.13
(1,2750)	1:79:A:VAL:HG23	1:86:A:GLY:H	2	0.13	0.01	0.13
(3,552)	1:32:A:TYR:HE1	1:57:A:ASP:HB3	2	0.13	0.02	0.13
(3,580)	1:92:A:GLU:HB3	1:92:A:GLU:HA	2	0.13	0.0	0.13
(3,867)	1:17:A:PRO:HB3	1:18:A:GLU:H	2	0.13	0.02	0.13
(1,2400)	1:119:A:GLN:H	1:100:A:SER:HB2	2	0.12	0.02	0.12
(1,3100)	1:48:A:ALA:HB1	1:47:A:THR:H	2	0.12	0.02	0.12
(1,3100)	1:48:A:ALA:HB2	1:47:A:THR:H	2	0.12	0.02	0.12
(1,3100)	1:48:A:ALA:HB3	1:47:A:THR:H	2	0.12	0.02	0.12
(3,826)	1:5:A:LYS:H	1:5:A:LYS:HA	2	0.12	0.02	0.12
(2,229)	1:104:A:VAL:HG21	1:115:A:VAL:HG11	2	0.12	0.02	0.12
(2,229)	1:104:A:VAL:HG21	1:115:A:VAL:HG12	2	0.12	0.02	0.12
(2,229)	1:104:A:VAL:HG21	1:115:A:VAL:HG13	2	0.12	0.02	0.12
(2,229)	1:104:A:VAL:HG22	1:115:A:VAL:HG11	2	0.12	0.02	0.12
(2,229)	1:104:A:VAL:HG22	1:115:A:VAL:HG12	2	0.12	0.02	0.12
(2,229)	1:104:A:VAL:HG22	1:115:A:VAL:HG13	2	0.12	0.02	0.12
(2,229)	1:104:A:VAL:HG23	1:115:A:VAL:HG11	2	0.12	0.02	0.12
(2,229)	1:104:A:VAL:HG23	1:115:A:VAL:HG12	2	0.12	0.02	0.12
(2,229)	1:104:A:VAL:HG23	1:115:A:VAL:HG13	2	0.12	0.02	0.12
(1,1829)	1:110:A:LEU:HA	1:111:A:LYS:H	2	0.12	0.0	0.12
(3,224)	1:103:A:ILE:HG21	1:101:A:ALA:H	2	0.12	0.0	0.12
(3,224)	1:103:A:ILE:HG22	1:101:A:ALA:H	2	0.12	0.0	0.12
(3,1053)	1:21:A:VAL:HG23	1:66:A:LEU:HD21	2	0.12	0.01	0.12

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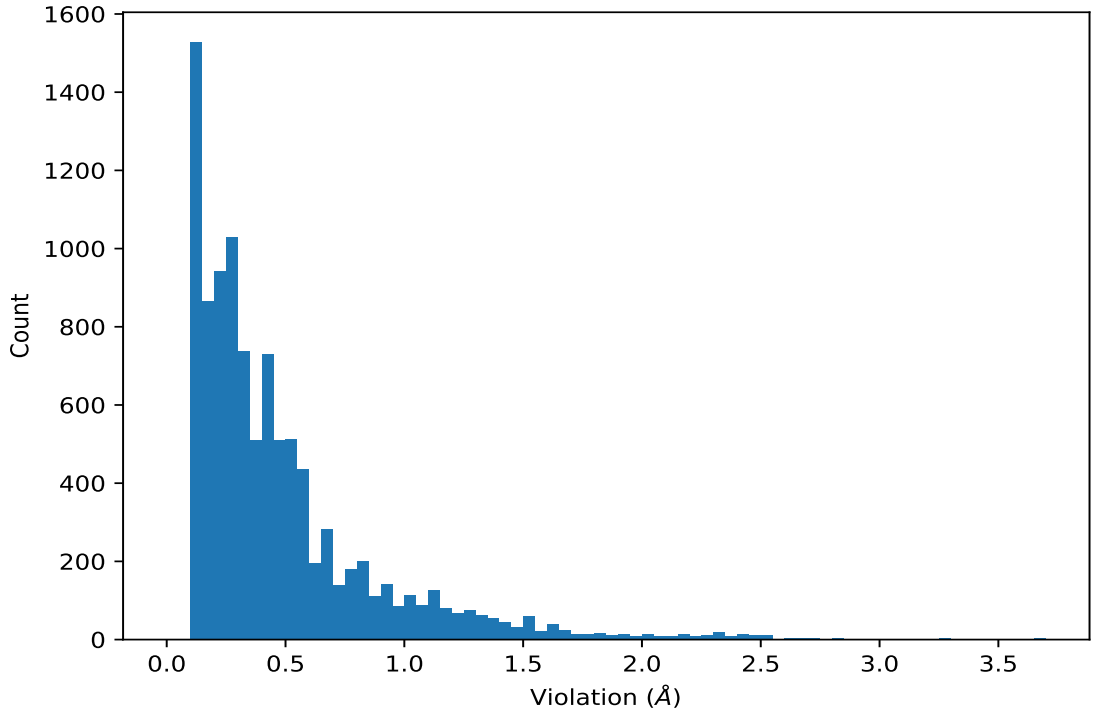
Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,1053)	1:21:A:VAL:HG23	1:66:A:LEU:HD22	2	0.12	0.01	0.12
(1,3225)	1:35:A:LYS:H	1:34:A:LYS:HG3	2	0.12	0.02	0.12
(1,747)	1:46:A:TYR:HA	1:46:A:TYR:HD1	2	0.12	0.0	0.12
(1,747)	1:46:A:TYR:HA	1:46:A:TYR:HD2	2	0.12	0.0	0.12
(1,374)	1:23:A:ILE:HG21	1:33:A:HIS:HD2	2	0.11	0.0	0.11
(1,374)	1:23:A:ILE:HG22	1:33:A:HIS:HD2	2	0.11	0.0	0.11
(1,374)	1:23:A:ILE:HG23	1:33:A:HIS:HD2	2	0.11	0.0	0.11
(1,2607)	1:97:A:LYS:HG2	1:98:A:THR:H	2	0.11	0.01	0.11
(3,29)	1:108:A:GLY:H	1:108:A:GLY:HA3	2	0.11	0.0	0.11
(3,915)	1:76:A:ARG:H	1:76:A:ARG:HB2	2	0.11	0.0	0.11
(1,2149)	1:118:A:ILE:HG13	1:118:A:ILE:HA	2	0.11	0.0	0.11
(3,792)	1:126:A:LEU:HG	1:126:A:LEU:HD21	2	0.11	0.0	0.11
(3,899)	1:35:A:LYS:HA	1:35:A:LYS:H	2	0.11	0.0	0.11
(3,1153)	1:3:A:GLU:HA	1:4:A:GLU:H	2	0.11	0.0	0.11

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

9.5 All violated distance restraints (i)

9.5.1 Histogram : Distribution of distance violations (i)

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



9.5.2 Table : All distance violations (i)

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

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1520)	1:91:A:LEU:HD11	1:71:A:PRO:HD3	10	3.7
(1,1520)	1:91:A:LEU:HD12	1:71:A:PRO:HD3	10	3.7
(1,1520)	1:91:A:LEU:HD13	1:71:A:PRO:HD3	10	3.7
(1,1321)	1:71:A:PRO:HG2	1:77:A:ILE:HG21	10	3.27
(1,1321)	1:71:A:PRO:HG2	1:77:A:ILE:HG22	10	3.27
(1,1321)	1:71:A:PRO:HG2	1:77:A:ILE:HG23	10	3.27
(1,3598)	1:97:A:LYS:HB3	1:95:A:ASN:HD22	6	3.24
(1,547)	1:40:A:LYS:HE2	1:38:A:ILE:HB	5	2.97
(1,3598)	1:97:A:LYS:HB3	1:95:A:ASN:HD22	3	2.88
(1,2305)	1:104:A:VAL:HG11	1:114:A:ARG:HG2	2	2.83
(1,2305)	1:104:A:VAL:HG12	1:114:A:ARG:HG2	2	2.83
(1,2305)	1:104:A:VAL:HG13	1:114:A:ARG:HG2	2	2.83
(1,700)	1:43:A:ILE:HG12	1:41:A:GLU:HG3	5	2.74
(1,2305)	1:104:A:VAL:HG11	1:114:A:ARG:HG2	9	2.72
(1,2305)	1:104:A:VAL:HG12	1:114:A:ARG:HG2	9	2.72
(1,2305)	1:104:A:VAL:HG13	1:114:A:ARG:HG2	9	2.72
(3,804)	1:71:A:PRO:HG2	1:77:A:ILE:HG22	10	2.7
(1,547)	1:40:A:LYS:HE2	1:38:A:ILE:HB	4	2.69
(1,2882)	1:91:A:LEU:HD11	1:72:A:ALA:H	10	2.68
(1,2882)	1:91:A:LEU:HD12	1:72:A:ALA:H	10	2.68
(1,2882)	1:91:A:LEU:HD13	1:72:A:ALA:H	10	2.68
(1,2139)	1:121:A:GLU:HG2	1:119:A:GLN:HG3	3	2.68
(1,1873)	1:113:A:ARG:HB2	1:115:A:VAL:HG11	8	2.65
(1,1873)	1:113:A:ARG:HB2	1:115:A:VAL:HG12	8	2.65
(1,1873)	1:113:A:ARG:HB2	1:115:A:VAL:HG13	8	2.65
(1,3598)	1:97:A:LYS:HB3	1:95:A:ASN:HD22	10	2.64
(1,547)	1:40:A:LYS:HE2	1:38:A:ILE:HB	8	2.59
(1,2305)	1:104:A:VAL:HG11	1:114:A:ARG:HG2	8	2.53
(1,2305)	1:104:A:VAL:HG12	1:114:A:ARG:HG2	8	2.53
(1,2305)	1:104:A:VAL:HG13	1:114:A:ARG:HG2	8	2.53
(1,1873)	1:113:A:ARG:HB2	1:115:A:VAL:HG11	6	2.53
(1,1873)	1:113:A:ARG:HB2	1:115:A:VAL:HG12	6	2.53
(1,1873)	1:113:A:ARG:HB2	1:115:A:VAL:HG13	6	2.53
(1,3598)	1:97:A:LYS:HB3	1:95:A:ASN:HD22	9	2.52
(1,3018)	1:52:A:MET:HG2	1:57:A:ASP:H	7	2.52
(1,62)	1:104:A:VAL:HG11	1:114:A:ARG:HB3	3	2.52
(1,62)	1:104:A:VAL:HG12	1:114:A:ARG:HB3	3	2.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,62)	1:104:A:VAL:HG13	1:114:A:ARG:HB3	3	2.52
(1,861)	1:53:A:ILE:HD11	1:36:A:LYS:HE3	6	2.49
(1,861)	1:53:A:ILE:HD12	1:36:A:LYS:HE3	6	2.49
(1,861)	1:53:A:ILE:HD13	1:36:A:LYS:HE3	6	2.49
(1,700)	1:43:A:ILE:HG12	1:41:A:GLU:HG3	9	2.49
(1,3018)	1:52:A:MET:HG2	1:57:A:ASP:H	6	2.47
(1,1873)	1:113:A:ARG:HB2	1:115:A:VAL:HG11	4	2.45
(1,1873)	1:113:A:ARG:HB2	1:115:A:VAL:HG12	4	2.45
(1,1873)	1:113:A:ARG:HB2	1:115:A:VAL:HG13	4	2.45
(1,1211)	1:91:A:LEU:HD11	1:72:A:ALA:HA	10	2.45
(1,1211)	1:91:A:LEU:HD12	1:72:A:ALA:HA	10	2.45
(1,1211)	1:91:A:LEU:HD13	1:72:A:ALA:HA	10	2.45
(1,2096)	1:125:A:LYS:HE2	1:127:A:ALA:HA	1	2.43
(1,394)	1:24:A:ILE:HG12	1:67:A:GLU:HB3	10	2.43
(1,1873)	1:113:A:ARG:HB2	1:115:A:VAL:HG11	9	2.42
(1,1873)	1:113:A:ARG:HB2	1:115:A:VAL:HG12	9	2.42
(1,1873)	1:113:A:ARG:HB2	1:115:A:VAL:HG13	9	2.42
(1,1521)	1:73:A:PRO:HD2	1:91:A:LEU:HD11	10	2.42
(1,1521)	1:73:A:PRO:HD2	1:91:A:LEU:HD12	10	2.42
(1,1521)	1:73:A:PRO:HD2	1:91:A:LEU:HD13	10	2.42
(1,394)	1:24:A:ILE:HG12	1:67:A:GLU:HB3	6	2.42
(1,62)	1:104:A:VAL:HG11	1:114:A:ARG:HB3	9	2.42
(1,62)	1:104:A:VAL:HG12	1:114:A:ARG:HB3	9	2.42
(1,62)	1:104:A:VAL:HG13	1:114:A:ARG:HB3	9	2.42
(1,3557)	1:10:A:ARG:HG2	1:81:A:ASN:HD21	2	2.41
(1,1111)	1:22:A:LYS:HB2	1:67:A:GLU:HB2	10	2.4
(1,3598)	1:97:A:LYS:HB3	1:95:A:ASN:HD22	7	2.38
(1,3598)	1:97:A:LYS:HB3	1:95:A:ASN:HD22	8	2.37
(1,1916)	1:115:A:VAL:HG11	1:105:A:ILE:H	9	2.37
(1,1916)	1:115:A:VAL:HG12	1:105:A:ILE:H	9	2.37
(1,1916)	1:115:A:VAL:HG13	1:105:A:ILE:H	9	2.37
(1,1916)	1:115:A:VAL:HG11	1:105:A:ILE:H	10	2.35
(1,1916)	1:115:A:VAL:HG12	1:105:A:ILE:H	10	2.35
(1,1916)	1:115:A:VAL:HG13	1:105:A:ILE:H	10	2.35
(1,1916)	1:115:A:VAL:HG11	1:105:A:ILE:H	8	2.34
(1,1916)	1:115:A:VAL:HG12	1:105:A:ILE:H	8	2.34
(1,1916)	1:115:A:VAL:HG13	1:105:A:ILE:H	8	2.34
(1,547)	1:40:A:LYS:HE2	1:38:A:ILE:HB	7	2.34
(3,250)	1:15:A:LEU:HD12	1:66:A:LEU:HD22	8	2.33
(1,62)	1:104:A:VAL:HG11	1:114:A:ARG:HB3	2	2.33
(1,62)	1:104:A:VAL:HG12	1:114:A:ARG:HB3	2	2.33
(1,62)	1:104:A:VAL:HG13	1:114:A:ARG:HB3	2	2.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,250)	1:15:A:LEU:HD11	1:66:A:LEU:HD23	3	2.31
(1,3460)	1:78:A:LEU:HD11	1:16:A:GLN:HE22	6	2.31
(1,3460)	1:78:A:LEU:HD12	1:16:A:GLN:HE22	6	2.31
(1,3460)	1:78:A:LEU:HD13	1:16:A:GLN:HE22	6	2.31
(1,1215)	1:75:A:LYS:HE3	1:72:A:ALA:HB1	10	2.31
(1,1215)	1:75:A:LYS:HE3	1:72:A:ALA:HB2	10	2.31
(1,1215)	1:75:A:LYS:HE3	1:72:A:ALA:HB3	10	2.31
(1,1111)	1:22:A:LYS:HB2	1:67:A:GLU:HB2	3	2.31
(1,62)	1:104:A:VAL:HG11	1:114:A:ARG:HB3	8	2.31
(1,62)	1:104:A:VAL:HG12	1:114:A:ARG:HB3	8	2.31
(1,62)	1:104:A:VAL:HG13	1:114:A:ARG:HB3	8	2.31
(3,250)	1:15:A:LEU:HD11	1:66:A:LEU:HD22	1	2.3
(1,1111)	1:22:A:LYS:HB2	1:67:A:GLU:HB2	1	2.3
(1,924)	1:40:A:LYS:HE2	1:38:A:ILE:H	5	2.3
(1,1111)	1:22:A:LYS:HB2	1:67:A:GLU:HB2	7	2.29
(1,62)	1:104:A:VAL:HG11	1:114:A:ARG:HB3	10	2.28
(1,62)	1:104:A:VAL:HG12	1:114:A:ARG:HB3	10	2.28
(1,62)	1:104:A:VAL:HG13	1:114:A:ARG:HB3	10	2.28
(1,3598)	1:97:A:LYS:HB3	1:95:A:ASN:HD22	5	2.27
(1,1916)	1:115:A:VAL:HG11	1:105:A:ILE:H	4	2.26
(1,1916)	1:115:A:VAL:HG12	1:105:A:ILE:H	4	2.26
(1,1916)	1:115:A:VAL:HG13	1:105:A:ILE:H	4	2.26
(3,250)	1:15:A:LEU:HD13	1:66:A:LEU:HD23	7	2.24
(3,525)	1:71:A:PRO:HD3	1:77:A:ILE:HG22	10	2.23
(3,250)	1:15:A:LEU:HD13	1:66:A:LEU:HD23	5	2.22
(1,1111)	1:22:A:LYS:HB2	1:67:A:GLU:HB2	8	2.22
(1,394)	1:24:A:ILE:HG12	1:67:A:GLU:HB3	4	2.22
(1,2305)	1:104:A:VAL:HG11	1:114:A:ARG:HG2	5	2.21
(1,2305)	1:104:A:VAL:HG12	1:114:A:ARG:HG2	5	2.21
(1,2305)	1:104:A:VAL:HG13	1:114:A:ARG:HG2	5	2.21
(1,1873)	1:113:A:ARG:HB2	1:115:A:VAL:HG11	10	2.19
(1,1873)	1:113:A:ARG:HB2	1:115:A:VAL:HG12	10	2.19
(1,1873)	1:113:A:ARG:HB2	1:115:A:VAL:HG13	10	2.19
(1,394)	1:24:A:ILE:HG12	1:67:A:GLU:HB3	9	2.17
(3,250)	1:15:A:LEU:HD13	1:66:A:LEU:HD23	10	2.16
(1,1329)	1:78:A:LEU:HD21	1:79:A:VAL:H	6	2.16
(1,1329)	1:78:A:LEU:HD22	1:79:A:VAL:H	6	2.16
(1,1329)	1:78:A:LEU:HD23	1:79:A:VAL:H	6	2.16
(1,394)	1:24:A:ILE:HG12	1:67:A:GLU:HB3	8	2.16
(1,62)	1:104:A:VAL:HG11	1:114:A:ARG:HB3	1	2.16
(1,62)	1:104:A:VAL:HG12	1:114:A:ARG:HB3	1	2.16
(1,62)	1:104:A:VAL:HG13	1:114:A:ARG:HB3	1	2.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,250)	1:15:A:LEU:HD12	1:66:A:LEU:HD23	4	2.15
(1,700)	1:43:A:ILE:HG12	1:41:A:GLU:HG3	2	2.15
(3,250)	1:15:A:LEU:HD12	1:66:A:LEU:HD21	2	2.13
(1,2878)	1:75:A:LYS:HE3	1:72:A:ALA:H	10	2.13
(1,1916)	1:115:A:VAL:HG11	1:105:A:ILE:H	6	2.13
(1,1916)	1:115:A:VAL:HG12	1:105:A:ILE:H	6	2.13
(1,1916)	1:115:A:VAL:HG13	1:105:A:ILE:H	6	2.13
(3,250)	1:15:A:LEU:HD13	1:66:A:LEU:HD23	6	2.12
(1,547)	1:40:A:LYS:HE2	1:38:A:ILE:HB	3	2.12
(1,1111)	1:22:A:LYS:HB2	1:67:A:GLU:HB2	9	2.11
(3,250)	1:15:A:LEU:HD13	1:66:A:LEU:HD21	9	2.09
(1,2097)	1:18:A:GLU:HG3	1:127:A:ALA:HA	7	2.09
(1,394)	1:24:A:ILE:HG12	1:67:A:GLU:HB3	3	2.09
(1,2305)	1:104:A:VAL:HG11	1:114:A:ARG:HG2	1	2.08
(1,2305)	1:104:A:VAL:HG12	1:114:A:ARG:HG2	1	2.08
(1,2305)	1:104:A:VAL:HG13	1:114:A:ARG:HG2	1	2.08
(1,3508)	1:40:A:LYS:HE3	1:41:A:GLU:H	10	2.07
(1,394)	1:24:A:ILE:HG12	1:67:A:GLU:HB3	1	2.07
(1,2305)	1:104:A:VAL:HG11	1:114:A:ARG:HG2	3	2.05
(1,2305)	1:104:A:VAL:HG12	1:114:A:ARG:HG2	3	2.05
(1,2305)	1:104:A:VAL:HG13	1:114:A:ARG:HG2	3	2.05
(1,924)	1:40:A:LYS:HE2	1:38:A:ILE:H	4	2.05
(1,394)	1:24:A:ILE:HG12	1:67:A:GLU:HB3	2	2.05
(1,62)	1:104:A:VAL:HG11	1:114:A:ARG:HB3	5	2.05
(1,62)	1:104:A:VAL:HG12	1:114:A:ARG:HB3	5	2.05
(1,62)	1:104:A:VAL:HG13	1:114:A:ARG:HB3	5	2.05
(1,394)	1:24:A:ILE:HG12	1:67:A:GLU:HB3	7	2.04
(1,3418)	1:10:A:ARG:HG3	1:9:A:ALA:H	10	2.02
(1,3018)	1:52:A:MET:HG2	1:57:A:ASP:H	5	2.02
(1,963)	1:34:A:LYS:HE2	1:33:A:HIS:HE1	1	2.02
(1,1349)	1:110:A:LEU:HD21	1:87:A:ASN:HD22	10	2.01
(1,1349)	1:110:A:LEU:HD22	1:87:A:ASN:HD22	10	2.01
(1,1349)	1:110:A:LEU:HD23	1:87:A:ASN:HD22	10	2.01
(1,62)	1:104:A:VAL:HG11	1:114:A:ARG:HB3	7	1.99
(1,62)	1:104:A:VAL:HG12	1:114:A:ARG:HB3	7	1.99
(1,62)	1:104:A:VAL:HG13	1:114:A:ARG:HB3	7	1.99
(1,1216)	1:75:A:LYS:HG2	1:72:A:ALA:HB1	10	1.98
(1,1216)	1:75:A:LYS:HG2	1:72:A:ALA:HB2	10	1.98
(1,1216)	1:75:A:LYS:HG2	1:72:A:ALA:HB3	10	1.98
(1,82)	1:122:A:ASP:HA	1:81:A:ASN:HB3	9	1.98
(1,1920)	1:104:A:VAL:HA	1:115:A:VAL:HG11	9	1.96
(1,1920)	1:104:A:VAL:HA	1:115:A:VAL:HG12	9	1.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1920)	1:104:A:VAL:HA	1:115:A:VAL:HG13	9	1.96
(1,1111)	1:22:A:LYS:HB2	1:67:A:GLU:HB2	4	1.95
(1,2305)	1:104:A:VAL:HG11	1:114:A:ARG:HG2	10	1.94
(1,2305)	1:104:A:VAL:HG12	1:114:A:ARG:HG2	10	1.94
(1,2305)	1:104:A:VAL:HG13	1:114:A:ARG:HG2	10	1.94
(1,1920)	1:104:A:VAL:HA	1:115:A:VAL:HG11	10	1.93
(1,1920)	1:104:A:VAL:HA	1:115:A:VAL:HG12	10	1.93
(1,1920)	1:104:A:VAL:HA	1:115:A:VAL:HG13	10	1.93
(1,82)	1:122:A:ASP:HA	1:81:A:ASN:HB3	1	1.93
(1,3755)	1:34:A:LYS:HE2	1:33:A:HIS:HE1	1	1.92
(1,1378)	1:110:A:LEU:HD21	1:87:A:ASN:HD22	10	1.91
(1,1378)	1:110:A:LEU:HD22	1:87:A:ASN:HD22	10	1.91
(1,1378)	1:110:A:LEU:HD23	1:87:A:ASN:HD22	10	1.91
(1,1111)	1:22:A:LYS:HB2	1:67:A:GLU:HB2	6	1.91
(1,924)	1:40:A:LYS:HE2	1:38:A:ILE:H	8	1.91
(1,1920)	1:104:A:VAL:HA	1:115:A:VAL:HG11	4	1.89
(1,1920)	1:104:A:VAL:HA	1:115:A:VAL:HG12	4	1.89
(1,1920)	1:104:A:VAL:HA	1:115:A:VAL:HG13	4	1.89
(1,1111)	1:22:A:LYS:HB2	1:67:A:GLU:HB2	2	1.88
(1,1920)	1:104:A:VAL:HA	1:115:A:VAL:HG11	8	1.86
(1,1920)	1:104:A:VAL:HA	1:115:A:VAL:HG12	8	1.86
(1,1920)	1:104:A:VAL:HA	1:115:A:VAL:HG13	8	1.86
(2,349)	1:118:A:ILE:HG12	1:84:A:TYR:HB3	9	1.85
(1,3758)	1:65:A:HIS:HE1	1:27:A:LYS:HD2	9	1.85
(1,3418)	1:10:A:ARG:HG3	1:9:A:ALA:H	9	1.85
(1,2504)	1:111:A:LYS:HE3	1:107:A:THR:H	8	1.85
(1,1920)	1:104:A:VAL:HA	1:115:A:VAL:HG11	6	1.84
(1,1920)	1:104:A:VAL:HA	1:115:A:VAL:HG12	6	1.84
(1,1920)	1:104:A:VAL:HA	1:115:A:VAL:HG13	6	1.84
(1,664)	1:15:A:LEU:HB2	1:42:A:VAL:HG21	3	1.84
(1,664)	1:15:A:LEU:HB2	1:42:A:VAL:HG22	3	1.84
(1,664)	1:15:A:LEU:HB2	1:42:A:VAL:HG23	3	1.84
(1,425)	1:91:A:LEU:HD21	1:92:A:GLU:H	10	1.83
(1,425)	1:91:A:LEU:HD22	1:92:A:GLU:H	10	1.83
(1,425)	1:91:A:LEU:HD23	1:92:A:GLU:H	10	1.83
(1,2145)	1:119:A:GLN:HB3	1:122:A:ASP:HB3	10	1.82
(1,596)	1:49:A:VAL:HB	1:40:A:LYS:HB3	4	1.82
(1,394)	1:24:A:ILE:HG12	1:67:A:GLU:HB3	5	1.81
(1,82)	1:122:A:ASP:HA	1:81:A:ASN:HB3	4	1.81
(1,1753)	1:115:A:VAL:HG11	1:105:A:ILE:HG13	9	1.8
(1,1753)	1:115:A:VAL:HG12	1:105:A:ILE:HG13	9	1.8
(1,1753)	1:115:A:VAL:HG13	1:105:A:ILE:HG13	9	1.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,471)	1:26:A:LYS:HG3	1:30:A:GLU:HA	10	1.8
(1,1753)	1:115:A:VAL:HG11	1:105:A:ILE:HG13	8	1.79
(1,1753)	1:115:A:VAL:HG12	1:105:A:ILE:HG13	8	1.79
(1,1753)	1:115:A:VAL:HG13	1:105:A:ILE:HG13	8	1.79
(1,2144)	1:119:A:GLN:HB3	1:122:A:ASP:HB3	10	1.78
(1,861)	1:53:A:ILE:HD11	1:36:A:LYS:HE2	3	1.78
(1,861)	1:53:A:ILE:HD12	1:36:A:LYS:HE2	3	1.78
(1,861)	1:53:A:ILE:HD13	1:36:A:LYS:HE2	3	1.78
(1,664)	1:15:A:LEU:HB2	1:42:A:VAL:HG21	6	1.77
(1,664)	1:15:A:LEU:HB2	1:42:A:VAL:HG22	6	1.77
(1,664)	1:15:A:LEU:HB2	1:42:A:VAL:HG23	6	1.77
(1,924)	1:40:A:LYS:HE2	1:38:A:ILE:H	7	1.76
(1,3520)	1:52:A:MET:HG2	1:59:A:LEU:H	6	1.75
(1,700)	1:43:A:ILE:HG12	1:41:A:GLU:HG3	8	1.75
(1,633)	1:41:A:GLU:HG3	1:43:A:ILE:HD11	5	1.74
(1,633)	1:41:A:GLU:HG3	1:43:A:ILE:HD12	5	1.74
(1,633)	1:41:A:GLU:HG3	1:43:A:ILE:HD13	5	1.74
(1,3520)	1:52:A:MET:HG2	1:59:A:LEU:H	5	1.73
(1,2145)	1:119:A:GLN:HB3	1:122:A:ASP:HB3	9	1.72
(1,426)	1:91:A:LEU:HD21	1:102:A:THR:H	10	1.72
(1,426)	1:91:A:LEU:HD22	1:102:A:THR:H	10	1.72
(1,426)	1:91:A:LEU:HD23	1:102:A:THR:H	10	1.72
(2,61)	1:26:A:LYS:HE2	1:24:A:ILE:HA	10	1.71
(1,2305)	1:104:A:VAL:HG11	1:114:A:ARG:HG2	7	1.71
(1,2305)	1:104:A:VAL:HG12	1:114:A:ARG:HG2	7	1.71
(1,2305)	1:104:A:VAL:HG13	1:114:A:ARG:HG2	7	1.71
(1,769)	1:42:A:VAL:HG21	1:48:A:ALA:HA	7	1.71
(1,769)	1:42:A:VAL:HG22	1:48:A:ALA:HA	7	1.71
(1,769)	1:42:A:VAL:HG23	1:48:A:ALA:HA	7	1.71
(1,3421)	1:10:A:ARG:H	1:82:A:GLY:HA3	3	1.69
(1,1419)	1:84:A:TYR:HB2	1:87:A:ASN:HB3	5	1.69
(1,769)	1:42:A:VAL:HG21	1:48:A:ALA:HA	3	1.69
(1,769)	1:42:A:VAL:HG22	1:48:A:ALA:HA	3	1.69
(1,769)	1:42:A:VAL:HG23	1:48:A:ALA:HA	3	1.69
(1,157)	1:16:A:GLN:HB2	1:78:A:LEU:HD11	6	1.69
(1,157)	1:16:A:GLN:HB2	1:78:A:LEU:HD12	6	1.69
(1,157)	1:16:A:GLN:HB2	1:78:A:LEU:HD13	6	1.69
(1,769)	1:42:A:VAL:HG21	1:48:A:ALA:HA	1	1.68
(1,769)	1:42:A:VAL:HG22	1:48:A:ALA:HA	1	1.68
(1,769)	1:42:A:VAL:HG23	1:48:A:ALA:HA	1	1.68
(1,62)	1:104:A:VAL:HG11	1:114:A:ARG:HB3	4	1.68
(1,62)	1:104:A:VAL:HG12	1:114:A:ARG:HB3	4	1.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,62)	1:104:A:VAL:HG13	1:114:A:ARG:HB3	4	1.68
(1,3418)	1:10:A:ARG:HG3	1:9:A:ALA:H	6	1.67
(1,2144)	1:119:A:GLN:HB3	1:122:A:ASP:HB3	9	1.67
(1,1111)	1:22:A:LYS:HB2	1:67:A:GLU:HB2	5	1.67
(1,861)	1:53:A:ILE:HD11	1:36:A:LYS:HE2	5	1.67
(1,861)	1:53:A:ILE:HD12	1:36:A:LYS:HE2	5	1.67
(1,861)	1:53:A:ILE:HD13	1:36:A:LYS:HE2	5	1.67
(1,1753)	1:115:A:VAL:HG11	1:105:A:ILE:HG13	10	1.66
(1,1753)	1:115:A:VAL:HG12	1:105:A:ILE:HG13	10	1.66
(1,1753)	1:115:A:VAL:HG13	1:105:A:ILE:HG13	10	1.66
(1,596)	1:49:A:VAL:HB	1:40:A:LYS:HB3	5	1.66
(1,2502)	1:107:A:THR:H	1:87:A:ASN:HB2	7	1.65
(1,769)	1:42:A:VAL:HG21	1:48:A:ALA:HA	8	1.65
(1,769)	1:42:A:VAL:HG22	1:48:A:ALA:HA	8	1.65
(1,769)	1:42:A:VAL:HG23	1:48:A:ALA:HA	8	1.65
(1,1843)	1:110:A:LEU:HD21	1:87:A:ASN:HD22	10	1.64
(1,1843)	1:110:A:LEU:HD22	1:87:A:ASN:HD22	10	1.64
(1,1843)	1:110:A:LEU:HD23	1:87:A:ASN:HD22	10	1.64
(3,555)	1:12:A:ASP:HB2	1:46:A:TYR:HE2	10	1.63
(1,3840)	1:46:A:TYR:HE1	1:13:A:TYR:HB2	3	1.63
(1,3840)	1:46:A:TYR:HE2	1:13:A:TYR:HB2	3	1.63
(1,2878)	1:75:A:LYS:HE3	1:72:A:ALA:H	4	1.63
(1,1419)	1:84:A:TYR:HB2	1:87:A:ASN:HB3	6	1.63
(1,769)	1:42:A:VAL:HG21	1:48:A:ALA:HA	9	1.63
(1,769)	1:42:A:VAL:HG22	1:48:A:ALA:HA	9	1.63
(1,769)	1:42:A:VAL:HG23	1:48:A:ALA:HA	9	1.63
(3,186)	1:59:A:LEU:H	1:57:A:ASP:HB2	6	1.62
(1,3699)	1:69:A:VAL:H	1:70:A:ILE:HG13	3	1.62
(1,3520)	1:52:A:MET:HG2	1:59:A:LEU:H	7	1.62
(1,2502)	1:107:A:THR:H	1:87:A:ASN:HB2	1	1.62
(1,1723)	1:104:A:VAL:HG11	1:114:A:ARG:HA	10	1.62
(1,1723)	1:104:A:VAL:HG12	1:114:A:ARG:HA	10	1.62
(1,1723)	1:104:A:VAL:HG13	1:114:A:ARG:HA	10	1.62
(1,2821)	1:78:A:LEU:HD21	1:79:A:VAL:H	6	1.61
(1,2821)	1:78:A:LEU:HD22	1:79:A:VAL:H	6	1.61
(1,2821)	1:78:A:LEU:HD23	1:79:A:VAL:H	6	1.61
(1,2502)	1:107:A:THR:H	1:87:A:ASN:HB2	2	1.61
(1,2145)	1:119:A:GLN:HB3	1:122:A:ASP:HB3	4	1.61
(1,769)	1:42:A:VAL:HG21	1:48:A:ALA:HA	4	1.61
(1,769)	1:42:A:VAL:HG22	1:48:A:ALA:HA	4	1.61
(1,769)	1:42:A:VAL:HG23	1:48:A:ALA:HA	4	1.61
(1,596)	1:49:A:VAL:HB	1:40:A:LYS:HB3	10	1.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,232)	1:110:A:LEU:HD21	1:87:A:ASN:HA	10	1.6
(2,232)	1:110:A:LEU:HD22	1:87:A:ASN:HA	10	1.6
(2,232)	1:110:A:LEU:HD23	1:87:A:ASN:HA	10	1.6
(1,3699)	1:69:A:VAL:H	1:70:A:ILE:HG13	9	1.6
(1,3508)	1:40:A:LYS:HE3	1:41:A:GLU:H	5	1.6
(1,1753)	1:115:A:VAL:HG11	1:105:A:ILE:HG13	4	1.6
(1,1753)	1:115:A:VAL:HG12	1:105:A:ILE:HG13	4	1.6
(1,1753)	1:115:A:VAL:HG13	1:105:A:ILE:HG13	4	1.6
(1,2504)	1:111:A:LYS:HE3	1:107:A:THR:H	6	1.59
(1,1419)	1:84:A:TYR:HB2	1:87:A:ASN:HB3	8	1.59
(1,700)	1:43:A:ILE:HG12	1:41:A:GLU:HG3	10	1.59
(1,3699)	1:69:A:VAL:H	1:70:A:ILE:HG13	6	1.58
(1,769)	1:42:A:VAL:HG21	1:48:A:ALA:HA	6	1.58
(1,769)	1:42:A:VAL:HG22	1:48:A:ALA:HA	6	1.58
(1,769)	1:42:A:VAL:HG23	1:48:A:ALA:HA	6	1.58
(1,769)	1:42:A:VAL:HG21	1:48:A:ALA:HA	10	1.58
(1,769)	1:42:A:VAL:HG22	1:48:A:ALA:HA	10	1.58
(1,769)	1:42:A:VAL:HG23	1:48:A:ALA:HA	10	1.58
(1,664)	1:15:A:LEU:HB2	1:42:A:VAL:HG21	2	1.58
(1,664)	1:15:A:LEU:HB2	1:42:A:VAL:HG22	2	1.58
(1,664)	1:15:A:LEU:HB2	1:42:A:VAL:HG23	2	1.58
(1,2502)	1:107:A:THR:H	1:87:A:ASN:HB2	9	1.57
(1,2144)	1:119:A:GLN:HB3	1:122:A:ASP:HB3	4	1.57
(1,2092)	1:127:A:ALA:HB1	1:38:A:ILE:HG13	7	1.57
(1,2092)	1:127:A:ALA:HB2	1:38:A:ILE:HG13	7	1.57
(1,2092)	1:127:A:ALA:HB3	1:38:A:ILE:HG13	7	1.57
(1,769)	1:42:A:VAL:HG21	1:48:A:ALA:HA	2	1.56
(1,769)	1:42:A:VAL:HG22	1:48:A:ALA:HA	2	1.56
(1,769)	1:42:A:VAL:HG23	1:48:A:ALA:HA	2	1.56
(1,1258)	1:75:A:LYS:HD2	1:75:A:LYS:HA	10	1.55
(3,961)	1:30:A:GLU:HG2	1:29:A:GLY:H	7	1.54
(1,3630)	1:123:A:ILE:H	1:80:A:LEU:HB3	7	1.54
(1,1906)	1:115:A:VAL:HA	1:116:A:GLU:HG2	10	1.54
(1,1419)	1:84:A:TYR:HB2	1:87:A:ASN:HB3	4	1.54
(3,735)	1:115:A:VAL:HG12	1:103:A:ILE:HD11	9	1.53
(1,3699)	1:69:A:VAL:H	1:70:A:ILE:HG13	1	1.53
(1,3630)	1:123:A:ILE:H	1:80:A:LEU:HB3	5	1.53
(1,2677)	1:91:A:LEU:HD21	1:92:A:GLU:H	10	1.53
(1,2677)	1:91:A:LEU:HD22	1:92:A:GLU:H	10	1.53
(1,2677)	1:91:A:LEU:HD23	1:92:A:GLU:H	10	1.53
(1,2504)	1:111:A:LYS:HE3	1:107:A:THR:H	5	1.53
(1,1723)	1:104:A:VAL:HG11	1:114:A:ARG:HA	4	1.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1723)	1:104:A:VAL:HG12	1:114:A:ARG:HA	4	1.53
(1,1723)	1:104:A:VAL:HG13	1:114:A:ARG:HA	4	1.53
(1,1723)	1:104:A:VAL:HG11	1:114:A:ARG:HA	6	1.53
(1,1723)	1:104:A:VAL:HG12	1:114:A:ARG:HA	6	1.53
(1,1723)	1:104:A:VAL:HG13	1:114:A:ARG:HA	6	1.53
(1,2437)	1:118:A:ILE:HG13	1:116:A:GLU:H	7	1.52
(1,1926)	1:115:A:VAL:HG11	1:105:A:ILE:HG13	9	1.52
(1,1926)	1:115:A:VAL:HG12	1:105:A:ILE:HG13	9	1.52
(1,1926)	1:115:A:VAL:HG13	1:105:A:ILE:HG13	9	1.52
(1,1723)	1:104:A:VAL:HG11	1:114:A:ARG:HA	7	1.52
(1,1723)	1:104:A:VAL:HG12	1:114:A:ARG:HA	7	1.52
(1,1723)	1:104:A:VAL:HG13	1:114:A:ARG:HA	7	1.52
(1,1262)	1:75:A:LYS:HD2	1:75:A:LYS:HA	10	1.52
(1,834)	1:52:A:MET:HG2	1:59:A:LEU:HG	6	1.52
(1,62)	1:104:A:VAL:HG11	1:114:A:ARG:HB3	6	1.52
(1,62)	1:104:A:VAL:HG12	1:114:A:ARG:HB3	6	1.52
(1,62)	1:104:A:VAL:HG13	1:114:A:ARG:HB3	6	1.52
(1,3699)	1:69:A:VAL:H	1:70:A:ILE:HG13	4	1.51
(1,3699)	1:69:A:VAL:H	1:70:A:ILE:HG13	7	1.51
(1,3590)	1:97:A:LYS:HB3	1:95:A:ASN:HD21	6	1.51
(1,3508)	1:40:A:LYS:HE3	1:41:A:GLU:H	4	1.51
(1,2103)	1:45:A:LYS:H	1:45:A:LYS:HG3	5	1.51
(1,2103)	1:45:A:LYS:H	1:45:A:LYS:HG3	7	1.51
(1,1926)	1:115:A:VAL:HG11	1:105:A:ILE:HG13	8	1.51
(1,1926)	1:115:A:VAL:HG12	1:105:A:ILE:HG13	8	1.51
(1,1926)	1:115:A:VAL:HG13	1:105:A:ILE:HG13	8	1.51
(1,1353)	1:110:A:LEU:HD21	1:87:A:ASN:HB2	10	1.51
(1,1353)	1:110:A:LEU:HD22	1:87:A:ASN:HB2	10	1.51
(1,1353)	1:110:A:LEU:HD23	1:87:A:ASN:HB2	10	1.51
(1,664)	1:15:A:LEU:HB2	1:42:A:VAL:HG21	9	1.51
(1,664)	1:15:A:LEU:HB2	1:42:A:VAL:HG22	9	1.51
(1,664)	1:15:A:LEU:HB2	1:42:A:VAL:HG23	9	1.51
(1,3699)	1:69:A:VAL:H	1:70:A:ILE:HG13	8	1.5
(1,2221)	1:91:A:LEU:HD21	1:101:A:ALA:HA	10	1.5
(1,2221)	1:91:A:LEU:HD22	1:101:A:ALA:HA	10	1.5
(1,2221)	1:91:A:LEU:HD23	1:101:A:ALA:HA	10	1.5
(1,2145)	1:119:A:GLN:HB3	1:122:A:ASP:HB3	1	1.5
(1,1723)	1:104:A:VAL:HG11	1:114:A:ARG:HA	5	1.5
(1,1723)	1:104:A:VAL:HG12	1:114:A:ARG:HA	5	1.5
(1,1723)	1:104:A:VAL:HG13	1:114:A:ARG:HA	5	1.5
(1,1723)	1:104:A:VAL:HG11	1:114:A:ARG:HA	9	1.5
(1,1723)	1:104:A:VAL:HG12	1:114:A:ARG:HA	9	1.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1723)	1:104:A:VAL:HG13	1:114:A:ARG:HA	9	1.5
(1,664)	1:15:A:LEU:HB2	1:42:A:VAL:HG21	8	1.5
(1,664)	1:15:A:LEU:HB2	1:42:A:VAL:HG22	8	1.5
(1,664)	1:15:A:LEU:HB2	1:42:A:VAL:HG23	8	1.5
(1,547)	1:40:A:LYS:HE2	1:38:A:ILE:HB	2	1.5
(1,82)	1:122:A:ASP:HA	1:81:A:ASN:HB3	3	1.5
(1,3699)	1:69:A:VAL:H	1:70:A:ILE:HG13	5	1.49
(1,664)	1:15:A:LEU:HB2	1:42:A:VAL:HG21	4	1.49
(1,664)	1:15:A:LEU:HB2	1:42:A:VAL:HG22	4	1.49
(1,664)	1:15:A:LEU:HB2	1:42:A:VAL:HG23	4	1.49
(1,2502)	1:107:A:THR:H	1:87:A:ASN:HB2	4	1.48
(1,2201)	1:105:A:ILE:HG21	1:84:A:TYR:HB2	5	1.48
(1,2201)	1:105:A:ILE:HG22	1:84:A:TYR:HB2	5	1.48
(1,2201)	1:105:A:ILE:HG23	1:84:A:TYR:HB2	5	1.48
(1,2145)	1:119:A:GLN:HB3	1:122:A:ASP:HB3	5	1.48
(1,1723)	1:104:A:VAL:HG11	1:114:A:ARG:HA	3	1.48
(1,1723)	1:104:A:VAL:HG12	1:114:A:ARG:HA	3	1.48
(1,1723)	1:104:A:VAL:HG13	1:114:A:ARG:HA	3	1.48
(1,1419)	1:84:A:TYR:HB2	1:87:A:ASN:HB3	1	1.48
(1,633)	1:41:A:GLU:HG3	1:43:A:ILE:HD11	9	1.48
(1,633)	1:41:A:GLU:HG3	1:43:A:ILE:HD12	9	1.48
(1,633)	1:41:A:GLU:HG3	1:43:A:ILE:HD13	9	1.48
(3,735)	1:115:A:VAL:HG12	1:103:A:ILE:HD11	8	1.47
(2,602)	1:60:A:LYS:HE2	1:59:A:LEU:H	3	1.47
(1,2504)	1:111:A:LYS:HE3	1:107:A:THR:H	2	1.47
(1,2504)	1:111:A:LYS:HE3	1:107:A:THR:H	3	1.47
(1,2437)	1:118:A:ILE:HG13	1:116:A:GLU:H	3	1.47
(1,2201)	1:105:A:ILE:HG21	1:84:A:TYR:HB2	8	1.47
(1,2201)	1:105:A:ILE:HG22	1:84:A:TYR:HB2	8	1.47
(1,2201)	1:105:A:ILE:HG23	1:84:A:TYR:HB2	8	1.47
(1,2103)	1:45:A:LYS:H	1:45:A:LYS:HG3	6	1.47
(1,1527)	1:93:A:SER:H	1:91:A:LEU:HG	6	1.47
(1,700)	1:43:A:ILE:HG12	1:41:A:GLU:HG3	1	1.47
(1,664)	1:15:A:LEU:HB2	1:42:A:VAL:HG21	7	1.47
(1,664)	1:15:A:LEU:HB2	1:42:A:VAL:HG22	7	1.47
(1,664)	1:15:A:LEU:HB2	1:42:A:VAL:HG23	7	1.47
(1,2333)	1:125:A:LYS:H	1:71:A:PRO:HD2	10	1.46
(1,2103)	1:45:A:LYS:H	1:45:A:LYS:HG3	3	1.46
(2,349)	1:118:A:ILE:HG12	1:84:A:TYR:HB3	10	1.45
(1,2145)	1:119:A:GLN:HB3	1:122:A:ASP:HB3	6	1.45
(1,2144)	1:119:A:GLN:HB3	1:122:A:ASP:HB3	1	1.45
(1,2107)	1:126:A:LEU:HD21	1:88:A:GLU:HB3	4	1.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2107)	1:126:A:LEU:HD22	1:88:A:GLU:HB3	4	1.45
(1,2107)	1:126:A:LEU:HD23	1:88:A:GLU:HB3	4	1.45
(1,1753)	1:115:A:VAL:HG11	1:105:A:ILE:HG13	6	1.45
(1,1753)	1:115:A:VAL:HG12	1:105:A:ILE:HG13	6	1.45
(1,1753)	1:115:A:VAL:HG13	1:105:A:ILE:HG13	6	1.45
(1,1197)	1:75:A:LYS:HE3	1:71:A:PRO:HB2	4	1.45
(1,924)	1:40:A:LYS:HE2	1:38:A:ILE:H	3	1.45
(1,596)	1:49:A:VAL:HB	1:40:A:LYS:HB3	3	1.45
(3,186)	1:59:A:LEU:H	1:57:A:ASP:HB2	5	1.44
(1,3699)	1:69:A:VAL:H	1:70:A:ILE:HG13	2	1.44
(1,2145)	1:119:A:GLN:HB3	1:122:A:ASP:HB3	7	1.44
(1,2144)	1:119:A:GLN:HB3	1:122:A:ASP:HB3	5	1.44
(1,1419)	1:84:A:TYR:HB2	1:87:A:ASN:HB3	10	1.44
(1,664)	1:15:A:LEU:HB2	1:42:A:VAL:HG21	1	1.44
(1,664)	1:15:A:LEU:HB2	1:42:A:VAL:HG22	1	1.44
(1,664)	1:15:A:LEU:HB2	1:42:A:VAL:HG23	1	1.44
(1,664)	1:15:A:LEU:HB2	1:42:A:VAL:HG21	10	1.44
(1,664)	1:15:A:LEU:HB2	1:42:A:VAL:HG22	10	1.44
(1,664)	1:15:A:LEU:HB2	1:42:A:VAL:HG23	10	1.44
(1,14)	1:5:A:LYS:HA	1:5:A:LYS:HD2	2	1.44
(3,317)	1:34:A:LYS:HB2	1:34:A:LYS:HE2	3	1.43
(1,2502)	1:107:A:THR:H	1:87:A:ASN:HB2	8	1.43
(1,2039)	1:110:A:LEU:HD21	1:84:A:TYR:HA	10	1.43
(1,2039)	1:110:A:LEU:HD22	1:84:A:TYR:HA	10	1.43
(1,2039)	1:110:A:LEU:HD23	1:84:A:TYR:HA	10	1.43
(1,1723)	1:104:A:VAL:HG11	1:114:A:ARG:HA	8	1.43
(1,1723)	1:104:A:VAL:HG12	1:114:A:ARG:HA	8	1.43
(1,1723)	1:104:A:VAL:HG13	1:114:A:ARG:HA	8	1.43
(1,596)	1:49:A:VAL:HB	1:40:A:LYS:HB3	7	1.43
(1,2153)	1:118:A:ILE:HA	1:100:A:SER:HB2	5	1.42
(1,2145)	1:119:A:GLN:HB3	1:122:A:ASP:HB3	3	1.42
(1,2103)	1:45:A:LYS:H	1:45:A:LYS:HG3	10	1.42
(1,1898)	1:115:A:VAL:H	1:114:A:ARG:HG2	7	1.42
(1,1518)	1:75:A:LYS:H	1:91:A:LEU:HD11	10	1.42
(1,1518)	1:75:A:LYS:H	1:91:A:LEU:HD12	10	1.42
(1,1518)	1:75:A:LYS:H	1:91:A:LEU:HD13	10	1.42
(1,1419)	1:84:A:TYR:HB2	1:87:A:ASN:HB3	2	1.42
(3,735)	1:115:A:VAL:HG12	1:103:A:ILE:HD13	6	1.41
(1,3630)	1:123:A:ILE:H	1:80:A:LEU:HB3	6	1.41
(1,2144)	1:119:A:GLN:HB3	1:122:A:ASP:HB3	6	1.41
(3,518)	1:96:A:GLU:HG3	1:97:A:LYS:HG3	8	1.4
(1,2502)	1:107:A:THR:H	1:87:A:ASN:HB2	5	1.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,735)	1:115:A:VAL:HG12	1:103:A:ILE:HD11	4	1.39
(3,501)	1:49:A:VAL:HG12	1:40:A:LYS:HB3	4	1.39
(2,602)	1:60:A:LYS:HE2	1:59:A:LEU:H	2	1.39
(1,3018)	1:52:A:MET:HG2	1:57:A:ASP:H	10	1.39
(1,2995)	1:60:A:LYS:HE2	1:60:A:LYS:H	3	1.39
(1,2502)	1:107:A:THR:H	1:87:A:ASN:HB2	10	1.39
(1,2144)	1:119:A:GLN:HB3	1:122:A:ASP:HB3	7	1.39
(1,2103)	1:45:A:LYS:H	1:45:A:LYS:HG3	1	1.39
(1,1723)	1:104:A:VAL:HG11	1:114:A:ARG:HA	2	1.39
(1,1723)	1:104:A:VAL:HG12	1:114:A:ARG:HA	2	1.39
(1,1723)	1:104:A:VAL:HG13	1:114:A:ARG:HA	2	1.39
(1,769)	1:42:A:VAL:HG21	1:48:A:ALA:HA	5	1.39
(1,769)	1:42:A:VAL:HG22	1:48:A:ALA:HA	5	1.39
(1,769)	1:42:A:VAL:HG23	1:48:A:ALA:HA	5	1.39
(1,2995)	1:60:A:LYS:HE2	1:60:A:LYS:H	6	1.38
(1,2153)	1:118:A:ILE:HA	1:100:A:SER:HB2	7	1.38
(1,1926)	1:115:A:VAL:HG11	1:105:A:ILE:HG13	10	1.38
(1,1926)	1:115:A:VAL:HG12	1:105:A:ILE:HG13	10	1.38
(1,1926)	1:115:A:VAL:HG13	1:105:A:ILE:HG13	10	1.38
(1,1906)	1:115:A:VAL:HA	1:116:A:GLU:HG2	9	1.38
(1,456)	1:61:A:LEU:HD21	1:59:A:LEU:HD11	7	1.38
(1,456)	1:61:A:LEU:HD21	1:59:A:LEU:HD12	7	1.38
(1,456)	1:61:A:LEU:HD21	1:59:A:LEU:HD13	7	1.38
(1,456)	1:61:A:LEU:HD22	1:59:A:LEU:HD11	7	1.38
(1,456)	1:61:A:LEU:HD22	1:59:A:LEU:HD12	7	1.38
(1,456)	1:61:A:LEU:HD22	1:59:A:LEU:HD13	7	1.38
(1,456)	1:61:A:LEU:HD23	1:59:A:LEU:HD11	7	1.38
(1,456)	1:61:A:LEU:HD23	1:59:A:LEU:HD12	7	1.38
(1,456)	1:61:A:LEU:HD23	1:59:A:LEU:HD13	7	1.38
(1,170)	1:78:A:LEU:HD11	1:16:A:GLN:HG3	6	1.38
(1,170)	1:78:A:LEU:HD12	1:16:A:GLN:HG3	6	1.38
(1,170)	1:78:A:LEU:HD13	1:16:A:GLN:HG3	6	1.38
(3,389)	1:73:A:PRO:HG3	1:91:A:LEU:HD13	10	1.37
(3,31)	1:75:A:LYS:HE2	1:76:A:ARG:H	3	1.37
(1,3563)	1:110:A:LEU:HD21	1:87:A:ASN:HD21	10	1.37
(1,3563)	1:110:A:LEU:HD22	1:87:A:ASN:HD21	10	1.37
(1,3563)	1:110:A:LEU:HD23	1:87:A:ASN:HD21	10	1.37
(1,2502)	1:107:A:THR:H	1:87:A:ASN:HB2	6	1.37
(1,2144)	1:119:A:GLN:HB3	1:122:A:ASP:HB3	3	1.37
(1,2103)	1:45:A:LYS:H	1:45:A:LYS:HG3	8	1.37
(1,1906)	1:115:A:VAL:HA	1:116:A:GLU:HG2	4	1.37
(1,1906)	1:115:A:VAL:HA	1:116:A:GLU:HG2	5	1.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3421)	1:10:A:ARG:H	1:82:A:GLY:HA3	1	1.36
(3,317)	1:34:A:LYS:HB3	1:34:A:LYS:HE2	10	1.35
(2,602)	1:60:A:LYS:HE2	1:59:A:LEU:H	6	1.35
(1,2092)	1:127:A:ALA:HB1	1:38:A:ILE:HG13	5	1.35
(1,2092)	1:127:A:ALA:HB2	1:38:A:ILE:HG13	5	1.35
(1,2092)	1:127:A:ALA:HB3	1:38:A:ILE:HG13	5	1.35
(1,596)	1:49:A:VAL:HB	1:40:A:LYS:HB3	2	1.35
(1,427)	1:91:A:LEU:HD21	1:93:A:SER:H	10	1.35
(1,427)	1:91:A:LEU:HD22	1:93:A:SER:H	10	1.35
(1,427)	1:91:A:LEU:HD23	1:93:A:SER:H	10	1.35
(1,2153)	1:118:A:ILE:HA	1:100:A:SER:HB2	4	1.34
(1,23)	1:7:A:ARG:HA	1:7:A:ARG:HD3	1	1.34
(3,501)	1:49:A:VAL:HG12	1:40:A:LYS:HB3	10	1.33
(1,2995)	1:60:A:LYS:HE2	1:60:A:LYS:H	5	1.33
(1,2995)	1:60:A:LYS:HE2	1:60:A:LYS:H	7	1.33
(1,2502)	1:107:A:THR:H	1:87:A:ASN:HB2	3	1.33
(1,2420)	1:115:A:VAL:HG21	1:118:A:ILE:H	4	1.33
(1,2420)	1:115:A:VAL:HG22	1:118:A:ILE:H	4	1.33
(1,2420)	1:115:A:VAL:HG23	1:118:A:ILE:H	4	1.33
(1,2420)	1:115:A:VAL:HG21	1:118:A:ILE:H	9	1.33
(1,2420)	1:115:A:VAL:HG22	1:118:A:ILE:H	9	1.33
(1,2420)	1:115:A:VAL:HG23	1:118:A:ILE:H	9	1.33
(1,2092)	1:127:A:ALA:HB1	1:38:A:ILE:HG13	6	1.33
(1,2092)	1:127:A:ALA:HB2	1:38:A:ILE:HG13	6	1.33
(1,2092)	1:127:A:ALA:HB3	1:38:A:ILE:HG13	6	1.33
(1,1419)	1:84:A:TYR:HB2	1:87:A:ASN:HB3	3	1.33
(1,452)	1:28:A:LEU:HD11	1:60:A:LYS:H	9	1.33
(1,452)	1:28:A:LEU:HD12	1:60:A:LYS:H	9	1.33
(1,452)	1:28:A:LEU:HD13	1:60:A:LYS:H	9	1.33
(3,31)	1:75:A:LYS:HE3	1:76:A:ARG:H	7	1.32
(1,2995)	1:60:A:LYS:HE2	1:60:A:LYS:H	2	1.32
(1,2802)	1:81:A:ASN:HB3	1:80:A:LEU:H	9	1.32
(1,2106)	1:109:A:PRO:HB2	1:110:A:LEU:HD11	10	1.32
(1,2106)	1:109:A:PRO:HB2	1:110:A:LEU:HD12	10	1.32
(1,2106)	1:109:A:PRO:HB2	1:110:A:LEU:HD13	10	1.32
(1,1926)	1:115:A:VAL:HG11	1:105:A:ILE:HG13	4	1.32
(1,1926)	1:115:A:VAL:HG12	1:105:A:ILE:HG13	4	1.32
(1,1926)	1:115:A:VAL:HG13	1:105:A:ILE:HG13	4	1.32
(1,1884)	1:104:A:VAL:HG11	1:114:A:ARG:HD3	2	1.32
(1,1884)	1:104:A:VAL:HG12	1:114:A:ARG:HD3	2	1.32
(1,1884)	1:104:A:VAL:HG13	1:114:A:ARG:HD3	2	1.32
(1,1723)	1:104:A:VAL:HG11	1:114:A:ARG:HA	1	1.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1723)	1:104:A:VAL:HG12	1:114:A:ARG:HA	1	1.32
(1,1723)	1:104:A:VAL:HG13	1:114:A:ARG:HA	1	1.32
(1,834)	1:52:A:MET:HG2	1:59:A:LEU:HG	7	1.32
(1,686)	1:41:A:GLU:HG3	1:43:A:ILE:HD11	5	1.32
(1,686)	1:41:A:GLU:HG3	1:43:A:ILE:HD12	5	1.32
(1,686)	1:41:A:GLU:HG3	1:43:A:ILE:HD13	5	1.32
(3,735)	1:115:A:VAL:HG13	1:103:A:ILE:HD13	10	1.31
(2,602)	1:60:A:LYS:HE2	1:59:A:LEU:H	8	1.31
(1,3382)	1:14:A:TRP:H	1:15:A:LEU:HB3	4	1.31
(1,2995)	1:60:A:LYS:HE2	1:60:A:LYS:H	9	1.31
(1,2745)	1:87:A:ASN:HB3	1:86:A:GLY:H	1	1.31
(1,2745)	1:87:A:ASN:HB3	1:86:A:GLY:H	5	1.31
(1,2432)	1:115:A:VAL:HG21	1:116:A:GLU:H	10	1.31
(1,2432)	1:115:A:VAL:HG22	1:116:A:GLU:H	10	1.31
(1,2432)	1:115:A:VAL:HG23	1:116:A:GLU:H	10	1.31
(2,349)	1:118:A:ILE:HG12	1:84:A:TYR:HB3	1	1.3
(1,3694)	1:68:A:THR:H	1:22:A:LYS:HB2	1	1.3
(1,2922)	1:67:A:GLU:H	1:22:A:LYS:HB2	10	1.3
(1,2685)	1:76:A:ARG:HD2	1:91:A:LEU:H	1	1.3
(1,2533)	1:115:A:VAL:HG11	1:105:A:ILE:H	9	1.3
(1,2533)	1:115:A:VAL:HG12	1:105:A:ILE:H	9	1.3
(1,2533)	1:115:A:VAL:HG13	1:105:A:ILE:H	9	1.3
(1,2161)	1:115:A:VAL:HG21	1:118:A:ILE:HG13	6	1.3
(1,2161)	1:115:A:VAL:HG22	1:118:A:ILE:HG13	6	1.3
(1,2161)	1:115:A:VAL:HG23	1:118:A:ILE:HG13	6	1.3
(1,1921)	1:115:A:VAL:HG11	1:113:A:ARG:HD3	10	1.3
(1,1921)	1:115:A:VAL:HG12	1:113:A:ARG:HD3	10	1.3
(1,1921)	1:115:A:VAL:HG13	1:113:A:ARG:HD3	10	1.3
(1,604)	1:40:A:LYS:HE3	1:40:A:LYS:HA	10	1.3
(1,596)	1:49:A:VAL:HB	1:40:A:LYS:HB3	6	1.3
(3,814)	1:24:A:ILE:HD12	1:65:A:HIS:H	7	1.29
(3,317)	1:34:A:LYS:HB3	1:34:A:LYS:HE2	2	1.29
(1,2995)	1:60:A:LYS:HE2	1:60:A:LYS:H	1	1.29
(1,2745)	1:87:A:ASN:HB3	1:86:A:GLY:H	6	1.29
(1,2201)	1:105:A:ILE:HG21	1:84:A:TYR:HB2	4	1.29
(1,2201)	1:105:A:ILE:HG22	1:84:A:TYR:HB2	4	1.29
(1,2201)	1:105:A:ILE:HG23	1:84:A:TYR:HB2	4	1.29
(1,2103)	1:45:A:LYS:H	1:45:A:LYS:HG3	2	1.29
(3,1179)	1:27:A:LYS:HA	1:27:A:LYS:HD2	3	1.28
(3,1097)	1:82:A:GLY:H	1:79:A:VAL:HG21	3	1.28
(3,317)	1:34:A:LYS:HB3	1:34:A:LYS:HE2	8	1.28
(2,344)	1:81:A:ASN:HB3	1:123:A:ILE:HA	9	1.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2745)	1:87:A:ASN:HB3	1:86:A:GLY:H	7	1.28
(1,2533)	1:115:A:VAL:HG11	1:105:A:ILE:H	10	1.28
(1,2533)	1:115:A:VAL:HG12	1:105:A:ILE:H	10	1.28
(1,2533)	1:115:A:VAL:HG13	1:105:A:ILE:H	10	1.28
(1,2420)	1:115:A:VAL:HG21	1:118:A:ILE:H	10	1.28
(1,2420)	1:115:A:VAL:HG22	1:118:A:ILE:H	10	1.28
(1,2420)	1:115:A:VAL:HG23	1:118:A:ILE:H	10	1.28
(1,2384)	1:120:A:TYR:H	1:121:A:GLU:HB2	7	1.28
(1,2092)	1:127:A:ALA:HB1	1:38:A:ILE:HG13	1	1.28
(1,2092)	1:127:A:ALA:HB2	1:38:A:ILE:HG13	1	1.28
(1,2092)	1:127:A:ALA:HB3	1:38:A:ILE:HG13	1	1.28
(1,1790)	1:107:A:THR:HG21	1:88:A:GLU:HG3	1	1.28
(1,1790)	1:107:A:THR:HG22	1:88:A:GLU:HG3	1	1.28
(1,1790)	1:107:A:THR:HG23	1:88:A:GLU:HG3	1	1.28
(1,664)	1:15:A:LEU:HB2	1:42:A:VAL:HG21	5	1.28
(1,664)	1:15:A:LEU:HB2	1:42:A:VAL:HG22	5	1.28
(1,664)	1:15:A:LEU:HB2	1:42:A:VAL:HG23	5	1.28
(1,547)	1:40:A:LYS:HE2	1:38:A:ILE:HB	6	1.28
(1,428)	1:91:A:LEU:HD21	1:91:A:LEU:HA	10	1.28
(1,428)	1:91:A:LEU:HD22	1:91:A:LEU:HA	10	1.28
(1,428)	1:91:A:LEU:HD23	1:91:A:LEU:HA	10	1.28
(1,2781)	1:85:A:ARG:HD2	1:82:A:GLY:H	10	1.27
(1,2745)	1:87:A:ASN:HB3	1:86:A:GLY:H	2	1.27
(1,2745)	1:87:A:ASN:HB3	1:86:A:GLY:H	8	1.27
(1,633)	1:41:A:GLU:HG3	1:43:A:ILE:HD11	2	1.27
(1,633)	1:41:A:GLU:HG3	1:43:A:ILE:HD12	2	1.27
(1,633)	1:41:A:GLU:HG3	1:43:A:ILE:HD13	2	1.27
(1,434)	1:61:A:LEU:HD21	1:59:A:LEU:HD11	7	1.27
(1,434)	1:61:A:LEU:HD21	1:59:A:LEU:HD12	7	1.27
(1,434)	1:61:A:LEU:HD21	1:59:A:LEU:HD13	7	1.27
(1,434)	1:61:A:LEU:HD22	1:59:A:LEU:HD11	7	1.27
(1,434)	1:61:A:LEU:HD22	1:59:A:LEU:HD12	7	1.27
(1,434)	1:61:A:LEU:HD22	1:59:A:LEU:HD13	7	1.27
(1,434)	1:61:A:LEU:HD23	1:59:A:LEU:HD11	7	1.27
(1,434)	1:61:A:LEU:HD23	1:59:A:LEU:HD12	7	1.27
(1,434)	1:61:A:LEU:HD23	1:59:A:LEU:HD13	7	1.27
(1,23)	1:7:A:ARG:HA	1:7:A:ARG:HD3	6	1.27
(1,3453)	1:14:A:TRP:HA	1:16:A:GLN:HE22	10	1.26
(1,2533)	1:115:A:VAL:HG11	1:105:A:ILE:H	8	1.26
(1,2533)	1:115:A:VAL:HG12	1:105:A:ILE:H	8	1.26
(1,2533)	1:115:A:VAL:HG13	1:105:A:ILE:H	8	1.26
(1,2384)	1:120:A:TYR:H	1:121:A:GLU:HB2	4	1.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2239)	1:10:A:ARG:HG2	1:82:A:GLY:HA3	2	1.26
(1,1921)	1:115:A:VAL:HG11	1:113:A:ARG:HD3	8	1.26
(1,1921)	1:115:A:VAL:HG12	1:113:A:ARG:HD3	8	1.26
(1,1921)	1:115:A:VAL:HG13	1:113:A:ARG:HD3	8	1.26
(1,963)	1:34:A:LYS:HE2	1:33:A:HIS:HE1	7	1.26
(1,956)	1:60:A:LYS:HB3	1:49:A:VAL:HA	4	1.26
(1,48)	1:3:A:GLU:HB2	1:8:A:THR:HB	1	1.26
(3,241)	1:17:A:PRO:HD3	1:16:A:GLN:HE22	2	1.25
(1,3630)	1:123:A:ILE:H	1:80:A:LEU:HB3	8	1.25
(1,2802)	1:81:A:ASN:HB3	1:80:A:LEU:H	1	1.25
(1,2710)	1:77:A:ILE:HG12	1:89:A:GLY:H	6	1.25
(1,2697)	1:106:A:GLU:HG2	1:90:A:THR:H	6	1.25
(1,2667)	1:91:A:LEU:HD21	1:93:A:SER:H	10	1.25
(1,2667)	1:91:A:LEU:HD22	1:93:A:SER:H	10	1.25
(1,2667)	1:91:A:LEU:HD23	1:93:A:SER:H	10	1.25
(1,2107)	1:126:A:LEU:HD21	1:88:A:GLU:HB3	1	1.25
(1,2107)	1:126:A:LEU:HD22	1:88:A:GLU:HB3	1	1.25
(1,2107)	1:126:A:LEU:HD23	1:88:A:GLU:HB3	1	1.25
(1,1906)	1:115:A:VAL:HA	1:116:A:GLU:HG2	6	1.25
(1,1906)	1:115:A:VAL:HA	1:116:A:GLU:HG2	7	1.25
(1,1419)	1:84:A:TYR:HB2	1:87:A:ASN:HB3	7	1.25
(1,700)	1:43:A:ILE:HG12	1:41:A:GLU:HG3	3	1.25
(3,1179)	1:27:A:LYS:HA	1:27:A:LYS:HD2	10	1.24
(1,3778)	1:45:A:LYS:HB3	1:46:A:TYR:HD1	4	1.24
(1,3778)	1:45:A:LYS:HB3	1:46:A:TYR:HD2	4	1.24
(1,2745)	1:87:A:ASN:HB3	1:86:A:GLY:H	4	1.24
(1,2685)	1:76:A:ARG:HD2	1:91:A:LEU:H	6	1.24
(1,2685)	1:76:A:ARG:HD2	1:91:A:LEU:H	10	1.24
(1,2432)	1:115:A:VAL:HG21	1:116:A:GLU:H	4	1.24
(1,2432)	1:115:A:VAL:HG22	1:116:A:GLU:H	4	1.24
(1,2432)	1:115:A:VAL:HG23	1:116:A:GLU:H	4	1.24
(1,1790)	1:107:A:THR:HG21	1:88:A:GLU:HG3	4	1.24
(1,1790)	1:107:A:THR:HG22	1:88:A:GLU:HG3	4	1.24
(1,1790)	1:107:A:THR:HG23	1:88:A:GLU:HG3	4	1.24
(1,956)	1:60:A:LYS:HB3	1:49:A:VAL:HA	10	1.24
(1,48)	1:3:A:GLU:HB3	1:8:A:THR:HB	9	1.24
(3,31)	1:75:A:LYS:HE2	1:76:A:ARG:H	8	1.23
(1,2773)	1:10:A:ARG:HG2	1:83:A:GLY:H	1	1.23
(1,2745)	1:87:A:ASN:HB3	1:86:A:GLY:H	10	1.23
(1,2437)	1:118:A:ILE:HG13	1:116:A:GLU:H	1	1.23
(1,2432)	1:115:A:VAL:HG21	1:116:A:GLU:H	9	1.23
(1,2432)	1:115:A:VAL:HG22	1:116:A:GLU:H	9	1.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2432)	1:115:A:VAL:HG23	1:116:A:GLU:H	9	1.23
(1,2384)	1:120:A:TYR:H	1:121:A:GLU:HB2	8	1.23
(1,1906)	1:115:A:VAL:HA	1:116:A:GLU:HG2	8	1.23
(1,1323)	1:78:A:LEU:HA	1:78:A:LEU:HD21	6	1.23
(1,1323)	1:78:A:LEU:HA	1:78:A:LEU:HD22	6	1.23
(1,1323)	1:78:A:LEU:HA	1:78:A:LEU:HD23	6	1.23
(1,1197)	1:75:A:LYS:HE3	1:71:A:PRO:HB2	5	1.23
(1,1183)	1:71:A:PRO:HD3	1:70:A:ILE:HG21	10	1.23
(1,1183)	1:71:A:PRO:HD3	1:70:A:ILE:HG22	10	1.23
(1,1183)	1:71:A:PRO:HD3	1:70:A:ILE:HG23	10	1.23
(1,834)	1:52:A:MET:HG2	1:59:A:LEU:HG	5	1.23
(1,673)	1:41:A:GLU:HG3	1:43:A:ILE:HA	9	1.23
(3,780)	1:45:A:LYS:HA	1:45:A:LYS:HD3	9	1.22
(1,3510)	1:40:A:LYS:HE2	1:41:A:GLU:H	10	1.22
(1,2710)	1:77:A:ILE:HG12	1:89:A:GLY:H	4	1.22
(1,2324)	1:126:A:LEU:H	1:71:A:PRO:HD3	10	1.22
(1,1906)	1:115:A:VAL:HA	1:116:A:GLU:HG2	2	1.22
(1,1663)	1:91:A:LEU:HD21	1:101:A:ALA:HB1	10	1.22
(1,1663)	1:91:A:LEU:HD21	1:101:A:ALA:HB2	10	1.22
(1,1663)	1:91:A:LEU:HD21	1:101:A:ALA:HB3	10	1.22
(1,1663)	1:91:A:LEU:HD22	1:101:A:ALA:HB1	10	1.22
(1,1663)	1:91:A:LEU:HD22	1:101:A:ALA:HB2	10	1.22
(1,1663)	1:91:A:LEU:HD22	1:101:A:ALA:HB3	10	1.22
(1,1663)	1:91:A:LEU:HD23	1:101:A:ALA:HB1	10	1.22
(1,1663)	1:91:A:LEU:HD23	1:101:A:ALA:HB2	10	1.22
(1,1663)	1:91:A:LEU:HD23	1:101:A:ALA:HB3	10	1.22
(1,1215)	1:75:A:LYS:HE3	1:72:A:ALA:HB1	1	1.22
(1,1215)	1:75:A:LYS:HE3	1:72:A:ALA:HB2	1	1.22
(1,1215)	1:75:A:LYS:HE3	1:72:A:ALA:HB3	1	1.22
(1,673)	1:41:A:GLU:HG3	1:43:A:ILE:HA	5	1.22
(1,23)	1:7:A:ARG:HA	1:7:A:ARG:HD3	2	1.22
(3,780)	1:45:A:LYS:HA	1:45:A:LYS:HD3	4	1.21
(3,122)	1:40:A:LYS:HE2	1:38:A:ILE:HG21	4	1.21
(2,349)	1:118:A:ILE:HG12	1:84:A:TYR:HB3	3	1.21
(1,2995)	1:60:A:LYS:HE2	1:60:A:LYS:H	4	1.21
(1,2995)	1:60:A:LYS:HE2	1:60:A:LYS:H	8	1.21
(1,2437)	1:118:A:ILE:HG13	1:116:A:GLU:H	2	1.21
(1,2432)	1:115:A:VAL:HG21	1:116:A:GLU:H	8	1.21
(1,2432)	1:115:A:VAL:HG22	1:116:A:GLU:H	8	1.21
(1,2432)	1:115:A:VAL:HG23	1:116:A:GLU:H	8	1.21
(1,2092)	1:127:A:ALA:HB1	1:38:A:ILE:HG13	10	1.21
(1,2092)	1:127:A:ALA:HB2	1:38:A:ILE:HG13	10	1.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2092)	1:127:A:ALA:HB3	1:38:A:ILE:HG13	10	1.21
(1,1095)	1:73:A:PRO:HG2	1:91:A:LEU:HD11	10	1.21
(1,1095)	1:73:A:PRO:HG2	1:91:A:LEU:HD12	10	1.21
(1,1095)	1:73:A:PRO:HG2	1:91:A:LEU:HD13	10	1.21
(1,926)	1:58:A:LYS:HG3	1:59:A:LEU:H	9	1.21
(2,344)	1:81:A:ASN:HB3	1:123:A:ILE:HA	1	1.2
(1,3694)	1:68:A:THR:H	1:22:A:LYS:HB2	10	1.2
(1,3630)	1:123:A:ILE:H	1:80:A:LEU:HB3	9	1.2
(1,3594)	1:97:A:LYS:H	1:95:A:ASN:HD22	3	1.2
(1,3579)	1:84:A:TYR:HB2	1:87:A:ASN:HD22	10	1.2
(1,3541)	1:81:A:ASN:HD22	1:11:A:THR:HB	5	1.2
(1,2720)	1:88:A:GLU:HG3	1:88:A:GLU:H	1	1.2
(1,2384)	1:120:A:TYR:H	1:121:A:GLU:HB2	6	1.2
(2,465)	1:108:A:GLY:H	1:110:A:LEU:HB3	10	1.19
(1,3694)	1:68:A:THR:H	1:22:A:LYS:HB2	3	1.19
(1,3508)	1:40:A:LYS:HE3	1:41:A:GLU:H	1	1.19
(1,2504)	1:111:A:LYS:HE3	1:107:A:THR:H	9	1.19
(1,2420)	1:115:A:VAL:HG21	1:118:A:ILE:H	8	1.19
(1,2420)	1:115:A:VAL:HG22	1:118:A:ILE:H	8	1.19
(1,2420)	1:115:A:VAL:HG23	1:118:A:ILE:H	8	1.19
(1,2384)	1:120:A:TYR:H	1:121:A:GLU:HB2	9	1.19
(1,1751)	1:115:A:VAL:HG11	1:105:A:ILE:HG12	9	1.19
(1,1751)	1:115:A:VAL:HG12	1:105:A:ILE:HG12	9	1.19
(1,1751)	1:115:A:VAL:HG13	1:105:A:ILE:HG12	9	1.19
(1,836)	1:52:A:MET:HG2	1:32:A:TYR:HE1	10	1.19
(1,836)	1:52:A:MET:HG2	1:32:A:TYR:HE2	10	1.19
(1,14)	1:5:A:LYS:HA	1:5:A:LYS:HD3	6	1.19
(3,876)	1:10:A:ARG:HD2	1:81:A:ASN:HD21	10	1.18
(3,125)	1:13:A:TYR:HD1	1:45:A:LYS:HE3	10	1.18
(2,602)	1:60:A:LYS:HE2	1:59:A:LEU:H	5	1.18
(2,602)	1:60:A:LYS:HE2	1:59:A:LEU:H	9	1.18
(1,3758)	1:65:A:HIS:HE1	1:27:A:LYS:HD2	8	1.18
(1,3579)	1:84:A:TYR:HB2	1:87:A:ASN:HD22	5	1.18
(1,2533)	1:115:A:VAL:HG11	1:105:A:ILE:H	4	1.18
(1,2533)	1:115:A:VAL:HG12	1:105:A:ILE:H	4	1.18
(1,2533)	1:115:A:VAL:HG13	1:105:A:ILE:H	4	1.18
(1,2384)	1:120:A:TYR:H	1:121:A:GLU:HB2	5	1.18
(1,1751)	1:115:A:VAL:HG11	1:105:A:ILE:HG12	8	1.18
(1,1751)	1:115:A:VAL:HG12	1:105:A:ILE:HG12	8	1.18
(1,1751)	1:115:A:VAL:HG13	1:105:A:ILE:HG12	8	1.18
(1,956)	1:60:A:LYS:HB3	1:49:A:VAL:HA	5	1.18
(1,59)	1:10:A:ARG:HB2	1:81:A:ASN:HD21	2	1.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1192)	1:73:A:PRO:HD2	1:91:A:LEU:HD21	6	1.17
(3,814)	1:24:A:ILE:HD11	1:65:A:HIS:H	2	1.17
(2,602)	1:60:A:LYS:HE2	1:59:A:LEU:H	7	1.17
(2,61)	1:26:A:LYS:HE2	1:24:A:ILE:HA	6	1.17
(1,3699)	1:69:A:VAL:H	1:70:A:ILE:HG13	10	1.17
(1,3018)	1:52:A:MET:HG2	1:57:A:ASP:H	8	1.17
(1,2745)	1:87:A:ASN:HB3	1:86:A:GLY:H	9	1.17
(1,2710)	1:77:A:ILE:HG12	1:89:A:GLY:H	5	1.17
(1,2437)	1:118:A:ILE:HG13	1:116:A:GLU:H	5	1.17
(1,2432)	1:115:A:VAL:HG21	1:116:A:GLU:H	6	1.17
(1,2432)	1:115:A:VAL:HG22	1:116:A:GLU:H	6	1.17
(1,2432)	1:115:A:VAL:HG23	1:116:A:GLU:H	6	1.17
(1,2384)	1:120:A:TYR:H	1:121:A:GLU:HB2	2	1.17
(1,2384)	1:120:A:TYR:H	1:121:A:GLU:HB2	10	1.17
(1,2228)	1:91:A:LEU:HD21	1:103:A:ILE:H	10	1.17
(1,2228)	1:91:A:LEU:HD22	1:103:A:ILE:H	10	1.17
(1,2228)	1:91:A:LEU:HD23	1:103:A:ILE:H	10	1.17
(1,2145)	1:119:A:GLN:HB3	1:122:A:ASP:HB3	8	1.17
(1,1926)	1:115:A:VAL:HG11	1:105:A:ILE:HG13	6	1.17
(1,1926)	1:115:A:VAL:HG12	1:105:A:ILE:HG13	6	1.17
(1,1926)	1:115:A:VAL:HG13	1:105:A:ILE:HG13	6	1.17
(1,956)	1:60:A:LYS:HB3	1:49:A:VAL:HA	8	1.17
(3,401)	1:15:A:LEU:HD23	1:80:A:LEU:HD11	1	1.16
(3,389)	1:91:A:LEU:HD13	1:71:A:PRO:HG3	1	1.16
(2,602)	1:60:A:LYS:HE2	1:59:A:LEU:H	1	1.16
(1,3755)	1:34:A:LYS:HE2	1:33:A:HIS:HE1	7	1.16
(1,3630)	1:123:A:ILE:H	1:80:A:LEU:HB3	4	1.16
(1,3382)	1:14:A:TRP:H	1:15:A:LEU:HB3	9	1.16
(1,2745)	1:87:A:ASN:HB3	1:86:A:GLY:H	3	1.16
(1,2384)	1:120:A:TYR:H	1:121:A:GLU:HB2	1	1.16
(1,2323)	1:126:A:LEU:H	1:71:A:PRO:HD2	8	1.16
(1,2201)	1:105:A:ILE:HG21	1:84:A:TYR:HB2	2	1.16
(1,2201)	1:105:A:ILE:HG22	1:84:A:TYR:HB2	2	1.16
(1,2201)	1:105:A:ILE:HG23	1:84:A:TYR:HB2	2	1.16
(1,2153)	1:118:A:ILE:HA	1:100:A:SER:HB2	1	1.16
(1,2145)	1:119:A:GLN:HB3	1:122:A:ASP:HB3	2	1.16
(1,2092)	1:127:A:ALA:HB1	1:38:A:ILE:HG13	9	1.16
(1,2092)	1:127:A:ALA:HB2	1:38:A:ILE:HG13	9	1.16
(1,2092)	1:127:A:ALA:HB3	1:38:A:ILE:HG13	9	1.16
(1,959)	1:60:A:LYS:HD2	1:61:A:LEU:H	5	1.16
(1,959)	1:60:A:LYS:HD2	1:61:A:LEU:H	10	1.16
(1,596)	1:49:A:VAL:HB	1:40:A:LYS:HB3	8	1.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,596)	1:49:A:VAL:HB	1:40:A:LYS:HB3	9	1.16
(3,501)	1:49:A:VAL:HG13	1:40:A:LYS:HB3	6	1.15
(3,501)	1:49:A:VAL:HG11	1:40:A:LYS:HB3	7	1.15
(2,349)	1:118:A:ILE:HG12	1:84:A:TYR:HB3	4	1.15
(1,3630)	1:123:A:ILE:H	1:80:A:LEU:HB3	2	1.15
(1,3590)	1:97:A:LYS:HB3	1:95:A:ASN:HD21	3	1.15
(1,3579)	1:84:A:TYR:HB2	1:87:A:ASN:HD22	6	1.15
(1,3018)	1:52:A:MET:HG2	1:57:A:ASP:H	2	1.15
(1,2802)	1:81:A:ASN:HB3	1:80:A:LEU:H	4	1.15
(1,2201)	1:105:A:ILE:HG21	1:84:A:TYR:HB2	1	1.15
(1,2201)	1:105:A:ILE:HG22	1:84:A:TYR:HB2	1	1.15
(1,2201)	1:105:A:ILE:HG23	1:84:A:TYR:HB2	1	1.15
(1,2092)	1:127:A:ALA:HB1	1:38:A:ILE:HG13	4	1.15
(1,2092)	1:127:A:ALA:HB2	1:38:A:ILE:HG13	4	1.15
(1,2092)	1:127:A:ALA:HB3	1:38:A:ILE:HG13	4	1.15
(1,1921)	1:115:A:VAL:HG11	1:113:A:ARG:HD3	6	1.15
(1,1921)	1:115:A:VAL:HG12	1:113:A:ARG:HD3	6	1.15
(1,1921)	1:115:A:VAL:HG13	1:113:A:ARG:HD3	6	1.15
(3,501)	1:49:A:VAL:HG11	1:40:A:LYS:HB3	5	1.14
(2,344)	1:81:A:ASN:HB3	1:123:A:ILE:HA	4	1.14
(1,2710)	1:77:A:ILE:HG12	1:89:A:GLY:H	7	1.14
(1,2437)	1:118:A:ILE:HG13	1:116:A:GLU:H	10	1.14
(1,2201)	1:105:A:ILE:HG21	1:84:A:TYR:HB2	7	1.14
(1,2201)	1:105:A:ILE:HG22	1:84:A:TYR:HB2	7	1.14
(1,2201)	1:105:A:ILE:HG23	1:84:A:TYR:HB2	7	1.14
(1,2092)	1:127:A:ALA:HB1	1:38:A:ILE:HG13	8	1.14
(1,2092)	1:127:A:ALA:HB2	1:38:A:ILE:HG13	8	1.14
(1,2092)	1:127:A:ALA:HB3	1:38:A:ILE:HG13	8	1.14
(1,1370)	1:122:A:ASP:HA	1:80:A:LEU:HB3	5	1.14
(1,956)	1:60:A:LYS:HB3	1:49:A:VAL:HA	7	1.14
(1,956)	1:60:A:LYS:HB3	1:49:A:VAL:HA	9	1.14
(2,349)	1:118:A:ILE:HG12	1:84:A:TYR:HB3	2	1.13
(2,249)	1:92:A:GLU:HG3	1:93:A:SER:HB2	9	1.13
(1,3630)	1:123:A:ILE:H	1:80:A:LEU:HB3	10	1.13
(1,3382)	1:14:A:TRP:H	1:15:A:LEU:HB3	3	1.13
(1,2995)	1:60:A:LYS:HE2	1:60:A:LYS:H	10	1.13
(1,2922)	1:67:A:GLU:H	1:22:A:LYS:HB2	3	1.13
(1,2710)	1:77:A:ILE:HG12	1:89:A:GLY:H	3	1.13
(1,2710)	1:77:A:ILE:HG12	1:89:A:GLY:H	8	1.13
(1,2591)	1:95:A:ASN:HB2	1:100:A:SER:H	4	1.13
(1,2323)	1:126:A:LEU:H	1:71:A:PRO:HD2	10	1.13
(1,2161)	1:115:A:VAL:HG21	1:118:A:ILE:HG13	8	1.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2161)	1:115:A:VAL:HG22	1:118:A:ILE:HG13	8	1.13
(1,2161)	1:115:A:VAL:HG23	1:118:A:ILE:HG13	8	1.13
(1,1921)	1:115:A:VAL:HG11	1:113:A:ARG:HD3	9	1.13
(1,1921)	1:115:A:VAL:HG12	1:113:A:ARG:HD3	9	1.13
(1,1921)	1:115:A:VAL:HG13	1:113:A:ARG:HD3	9	1.13
(1,959)	1:60:A:LYS:HD2	1:61:A:LEU:H	9	1.13
(1,956)	1:60:A:LYS:HB3	1:49:A:VAL:HA	2	1.13
(1,561)	1:39:A:VAL:HG21	1:18:A:GLU:H	10	1.13
(1,561)	1:39:A:VAL:HG22	1:18:A:GLU:H	10	1.13
(1,561)	1:39:A:VAL:HG23	1:18:A:GLU:H	10	1.13
(1,161)	1:16:A:GLN:HB3	1:78:A:LEU:HD11	6	1.13
(1,161)	1:16:A:GLN:HB3	1:78:A:LEU:HD12	6	1.13
(1,161)	1:16:A:GLN:HB3	1:78:A:LEU:HD13	6	1.13
(1,3590)	1:97:A:LYS:HB3	1:95:A:ASN:HD21	2	1.12
(1,3418)	1:10:A:ARG:HG3	1:9:A:ALA:H	8	1.12
(1,2720)	1:88:A:GLU:HG3	1:88:A:GLU:H	4	1.12
(1,2163)	1:115:A:VAL:HG11	1:105:A:ILE:HA	9	1.12
(1,2163)	1:115:A:VAL:HG12	1:105:A:ILE:HA	9	1.12
(1,2163)	1:115:A:VAL:HG13	1:105:A:ILE:HA	9	1.12
(1,2161)	1:115:A:VAL:HG21	1:118:A:ILE:HG13	4	1.12
(1,2161)	1:115:A:VAL:HG22	1:118:A:ILE:HG13	4	1.12
(1,2161)	1:115:A:VAL:HG23	1:118:A:ILE:HG13	4	1.12
(1,2161)	1:115:A:VAL:HG21	1:118:A:ILE:HG13	10	1.12
(1,2161)	1:115:A:VAL:HG22	1:118:A:ILE:HG13	10	1.12
(1,2161)	1:115:A:VAL:HG23	1:118:A:ILE:HG13	10	1.12
(1,2144)	1:119:A:GLN:HB3	1:122:A:ASP:HB3	8	1.12
(1,452)	1:28:A:LEU:HD11	1:60:A:LYS:H	3	1.12
(1,452)	1:28:A:LEU:HD12	1:60:A:LYS:H	3	1.12
(1,452)	1:28:A:LEU:HD13	1:60:A:LYS:H	3	1.12
(3,1140)	1:45:A:LYS:H	1:45:A:LYS:HD2	9	1.11
(3,927)	1:79:A:VAL:HG12	1:79:A:VAL:HA	1	1.11
(3,927)	1:79:A:VAL:HG11	1:79:A:VAL:HA	10	1.11
(3,814)	1:24:A:ILE:HD11	1:65:A:HIS:H	1	1.11
(3,564)	1:34:A:LYS:HE2	1:34:A:LYS:HG2	5	1.11
(3,561)	1:40:A:LYS:HE3	1:40:A:LYS:HB2	4	1.11
(3,518)	1:96:A:GLU:HG3	1:97:A:LYS:HG3	5	1.11
(3,299)	1:91:A:LEU:HD23	1:101:A:ALA:HA	10	1.11
(2,249)	1:92:A:GLU:HG3	1:93:A:SER:HB2	3	1.11
(2,249)	1:92:A:GLU:HG3	1:93:A:SER:HB2	8	1.11
(1,3641)	1:11:A:THR:H	1:81:A:ASN:HD21	5	1.11
(1,3630)	1:123:A:ILE:H	1:80:A:LEU:HB3	3	1.11
(1,3579)	1:84:A:TYR:HB2	1:87:A:ASN:HD22	1	1.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3121)	1:45:A:LYS:H	1:45:A:LYS:HG3	5	1.11
(1,3121)	1:45:A:LYS:H	1:45:A:LYS:HG3	7	1.11
(1,2878)	1:75:A:LYS:HE3	1:72:A:ALA:H	5	1.11
(1,2802)	1:81:A:ASN:HB3	1:80:A:LEU:H	3	1.11
(1,2710)	1:77:A:ILE:HG12	1:89:A:GLY:H	9	1.11
(1,2437)	1:118:A:ILE:HG13	1:116:A:GLU:H	8	1.11
(1,2201)	1:105:A:ILE:HG21	1:84:A:TYR:HB2	6	1.11
(1,2201)	1:105:A:ILE:HG22	1:84:A:TYR:HB2	6	1.11
(1,2201)	1:105:A:ILE:HG23	1:84:A:TYR:HB2	6	1.11
(1,2201)	1:105:A:ILE:HG21	1:84:A:TYR:HB2	10	1.11
(1,2201)	1:105:A:ILE:HG22	1:84:A:TYR:HB2	10	1.11
(1,2201)	1:105:A:ILE:HG23	1:84:A:TYR:HB2	10	1.11
(1,2153)	1:118:A:ILE:HA	1:100:A:SER:HB2	2	1.11
(1,2144)	1:119:A:GLN:HB3	1:122:A:ASP:HB3	2	1.11
(1,1751)	1:115:A:VAL:HG11	1:105:A:ILE:HG12	10	1.11
(1,1751)	1:115:A:VAL:HG12	1:105:A:ILE:HG12	10	1.11
(1,1751)	1:115:A:VAL:HG13	1:105:A:ILE:HG12	10	1.11
(1,959)	1:60:A:LYS:HD2	1:61:A:LEU:H	4	1.11
(3,927)	1:79:A:VAL:HG12	1:79:A:VAL:HA	2	1.1
(3,927)	1:79:A:VAL:HG11	1:79:A:VAL:HA	3	1.1
(3,927)	1:79:A:VAL:HG12	1:79:A:VAL:HA	4	1.1
(3,927)	1:79:A:VAL:HG12	1:79:A:VAL:HA	6	1.1
(3,927)	1:79:A:VAL:HG13	1:79:A:VAL:HA	7	1.1
(3,927)	1:79:A:VAL:HG13	1:79:A:VAL:HA	8	1.1
(3,564)	1:34:A:LYS:HE2	1:34:A:LYS:HG2	4	1.1
(3,564)	1:60:A:LYS:HE3	1:43:A:ILE:HD11	9	1.1
(3,401)	1:15:A:LEU:HD23	1:66:A:LEU:HD23	9	1.1
(3,317)	1:34:A:LYS:HE3	1:34:A:LYS:HB3	7	1.1
(3,31)	1:75:A:LYS:HE2	1:76:A:ARG:H	2	1.1
(2,590)	1:7:A:ARG:HB2	1:9:A:ALA:H	8	1.1
(2,249)	1:92:A:GLU:HG3	1:93:A:SER:HB2	5	1.1
(1,3694)	1:68:A:THR:H	1:22:A:LYS:HB2	8	1.1
(1,3630)	1:123:A:ILE:H	1:80:A:LEU:HB3	1	1.1
(1,3018)	1:52:A:MET:HG2	1:57:A:ASP:H	3	1.1
(1,965)	1:22:A:LYS:HE2	1:22:A:LYS:HG2	3	1.1
(1,561)	1:39:A:VAL:HG21	1:18:A:GLU:H	4	1.1
(1,561)	1:39:A:VAL:HG22	1:18:A:GLU:H	4	1.1
(1,561)	1:39:A:VAL:HG23	1:18:A:GLU:H	4	1.1
(1,453)	1:32:A:TYR:HD1	1:28:A:LEU:HD11	9	1.1
(1,453)	1:32:A:TYR:HD1	1:28:A:LEU:HD12	9	1.1
(1,453)	1:32:A:TYR:HD1	1:28:A:LEU:HD13	9	1.1
(1,453)	1:32:A:TYR:HD2	1:28:A:LEU:HD11	9	1.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,453)	1:32:A:TYR:HD2	1:28:A:LEU:HD12	9	1.1
(1,453)	1:32:A:TYR:HD2	1:28:A:LEU:HD13	9	1.1
(3,927)	1:79:A:VAL:HG11	1:79:A:VAL:HA	5	1.09
(3,927)	1:79:A:VAL:HG11	1:79:A:VAL:HA	9	1.09
(3,814)	1:24:A:ILE:HD12	1:65:A:HIS:H	8	1.09
(2,602)	1:60:A:LYS:HE2	1:59:A:LEU:H	10	1.09
(1,2710)	1:77:A:ILE:HG12	1:89:A:GLY:H	2	1.09
(1,2217)	1:10:A:ARG:HB2	1:11:A:THR:HG21	3	1.09
(1,2217)	1:10:A:ARG:HB2	1:11:A:THR:HG22	3	1.09
(1,2217)	1:10:A:ARG:HB2	1:11:A:THR:HG23	3	1.09
(1,2163)	1:115:A:VAL:HG11	1:105:A:ILE:HA	10	1.09
(1,2163)	1:115:A:VAL:HG12	1:105:A:ILE:HA	10	1.09
(1,2163)	1:115:A:VAL:HG13	1:105:A:ILE:HA	10	1.09
(1,2161)	1:115:A:VAL:HG21	1:118:A:ILE:HG13	9	1.09
(1,2161)	1:115:A:VAL:HG22	1:118:A:ILE:HG13	9	1.09
(1,2161)	1:115:A:VAL:HG23	1:118:A:ILE:HG13	9	1.09
(1,965)	1:22:A:LYS:HE2	1:22:A:LYS:HG2	5	1.09
(1,836)	1:52:A:MET:HG2	1:32:A:TYR:HE1	5	1.09
(1,836)	1:52:A:MET:HG2	1:32:A:TYR:HE2	5	1.09
(1,751)	1:46:A:TYR:HA	1:63:A:GLN:HB2	2	1.09
(2,249)	1:92:A:GLU:HG3	1:93:A:SER:HB2	7	1.08
(1,3579)	1:84:A:TYR:HB2	1:87:A:ASN:HD22	4	1.08
(1,3382)	1:14:A:TRP:H	1:15:A:LEU:HB3	1	1.08
(1,2420)	1:115:A:VAL:HG21	1:118:A:ILE:H	6	1.08
(1,2420)	1:115:A:VAL:HG22	1:118:A:ILE:H	6	1.08
(1,2420)	1:115:A:VAL:HG23	1:118:A:ILE:H	6	1.08
(1,2223)	1:119:A:GLN:H	1:100:A:SER:HB2	7	1.08
(1,2165)	1:104:A:VAL:HG11	1:114:A:ARG:HA	10	1.08
(1,2165)	1:104:A:VAL:HG12	1:114:A:ARG:HA	10	1.08
(1,2165)	1:104:A:VAL:HG13	1:114:A:ARG:HA	10	1.08
(1,1906)	1:115:A:VAL:HA	1:116:A:GLU:HG2	3	1.08
(1,1881)	1:113:A:ARG:HD2	1:114:A:ARG:H	2	1.08
(1,1317)	1:31:A:LYS:HG2	1:32:A:TYR:H	1	1.08
(1,956)	1:60:A:LYS:HB3	1:49:A:VAL:HA	3	1.08
(1,588)	1:53:A:ILE:HA	1:38:A:ILE:HG12	10	1.08
(1,547)	1:40:A:LYS:HE2	1:38:A:ILE:HB	1	1.08
(1,75)	1:11:A:THR:HB	1:13:A:TYR:HD1	4	1.08
(1,75)	1:11:A:THR:HB	1:13:A:TYR:HD2	4	1.08
(3,564)	1:60:A:LYS:HE3	1:43:A:ILE:HD11	6	1.07
(2,566)	1:63:A:GLN:HB2	1:46:A:TYR:H	2	1.07
(1,3594)	1:97:A:LYS:H	1:95:A:ASN:HD22	6	1.07
(1,3557)	1:10:A:ARG:HG2	1:81:A:ASN:HD21	10	1.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3121)	1:45:A:LYS:H	1:45:A:LYS:HG3	6	1.07
(1,3018)	1:52:A:MET:HG2	1:57:A:ASP:H	9	1.07
(1,2163)	1:115:A:VAL:HG11	1:105:A:ILE:HA	6	1.07
(1,2163)	1:115:A:VAL:HG12	1:105:A:ILE:HA	6	1.07
(1,2163)	1:115:A:VAL:HG13	1:105:A:ILE:HA	6	1.07
(1,1927)	1:115:A:VAL:HG11	1:105:A:ILE:HG12	9	1.07
(1,1927)	1:115:A:VAL:HG12	1:105:A:ILE:HG12	9	1.07
(1,1927)	1:115:A:VAL:HG13	1:105:A:ILE:HG12	9	1.07
(1,1888)	1:76:A:ARG:HD2	1:90:A:THR:HG21	3	1.07
(1,1888)	1:76:A:ARG:HD2	1:90:A:THR:HG22	3	1.07
(1,1888)	1:76:A:ARG:HD2	1:90:A:THR:HG23	3	1.07
(1,201)	1:73:A:PRO:HG2	1:91:A:LEU:HD11	10	1.07
(1,201)	1:73:A:PRO:HG2	1:91:A:LEU:HD12	10	1.07
(1,201)	1:73:A:PRO:HG2	1:91:A:LEU:HD13	10	1.07
(3,1140)	1:45:A:LYS:H	1:45:A:LYS:HD2	4	1.06
(3,563)	1:60:A:LYS:HE2	1:60:A:LYS:HG2	4	1.06
(3,561)	1:40:A:LYS:HE3	1:40:A:LYS:HB2	5	1.06
(1,3509)	1:40:A:LYS:HE3	1:41:A:GLU:H	10	1.06
(1,3382)	1:14:A:TRP:H	1:15:A:LEU:HB3	7	1.06
(1,3121)	1:45:A:LYS:H	1:45:A:LYS:HG3	3	1.06
(1,2685)	1:76:A:ARG:HD2	1:91:A:LEU:H	3	1.06
(1,2323)	1:126:A:LEU:H	1:71:A:PRO:HD2	6	1.06
(1,1927)	1:115:A:VAL:HG11	1:105:A:ILE:HG12	8	1.06
(1,1927)	1:115:A:VAL:HG12	1:105:A:ILE:HG12	8	1.06
(1,1927)	1:115:A:VAL:HG13	1:105:A:ILE:HG12	8	1.06
(1,956)	1:60:A:LYS:HB3	1:49:A:VAL:HA	6	1.06
(1,686)	1:41:A:GLU:HG3	1:43:A:ILE:HD11	9	1.06
(1,686)	1:41:A:GLU:HG3	1:43:A:ILE:HD12	9	1.06
(1,686)	1:41:A:GLU:HG3	1:43:A:ILE:HD13	9	1.06
(3,564)	1:34:A:LYS:HE2	1:34:A:LYS:HG2	7	1.05
(3,563)	1:60:A:LYS:HE2	1:60:A:LYS:HG2	1	1.05
(3,563)	1:60:A:LYS:HE2	1:60:A:LYS:HG2	9	1.05
(3,563)	1:58:A:LYS:HG2	1:58:A:LYS:HE2	10	1.05
(2,611)	1:123:A:ILE:H	1:81:A:ASN:HB3	9	1.05
(1,3253)	1:31:A:LYS:HG2	1:32:A:TYR:H	1	1.05
(1,2620)	1:97:A:LYS:H	1:97:A:LYS:HB3	2	1.05
(1,2620)	1:97:A:LYS:H	1:97:A:LYS:HB3	6	1.05
(1,2533)	1:115:A:VAL:HG11	1:105:A:ILE:H	6	1.05
(1,2533)	1:115:A:VAL:HG12	1:105:A:ILE:H	6	1.05
(1,2533)	1:115:A:VAL:HG13	1:105:A:ILE:H	6	1.05
(1,2223)	1:119:A:GLN:H	1:100:A:SER:HB2	5	1.05
(1,1898)	1:115:A:VAL:H	1:114:A:ARG:HG2	10	1.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1751)	1:115:A:VAL:HG11	1:105:A:ILE:HG12	4	1.05
(1,1751)	1:115:A:VAL:HG12	1:105:A:ILE:HG12	4	1.05
(1,1751)	1:115:A:VAL:HG13	1:105:A:ILE:HG12	4	1.05
(1,1037)	1:63:A:GLN:HG2	1:64:A:THR:HA	6	1.05
(1,700)	1:43:A:ILE:HG12	1:41:A:GLU:HG3	7	1.05
(1,48)	1:3:A:GLU:HB3	1:8:A:THR:HB	10	1.05
(3,563)	1:60:A:LYS:HE2	1:60:A:LYS:HG2	2	1.04
(3,563)	1:58:A:LYS:HG2	1:58:A:LYS:HE2	7	1.04
(3,389)	1:91:A:LEU:HD13	1:71:A:PRO:HG3	6	1.04
(3,31)	1:75:A:LYS:HE3	1:76:A:ARG:H	10	1.04
(2,249)	1:92:A:GLU:HG3	1:93:A:SER:HB2	10	1.04
(1,3694)	1:68:A:THR:H	1:22:A:LYS:HB2	7	1.04
(1,3382)	1:14:A:TRP:H	1:15:A:LEU:HB3	5	1.04
(1,3382)	1:14:A:TRP:H	1:15:A:LEU:HB3	6	1.04
(1,2294)	1:19:A:ILE:HD11	1:16:A:GLN:HB2	10	1.04
(1,2294)	1:19:A:ILE:HD12	1:16:A:GLN:HB2	10	1.04
(1,2294)	1:19:A:ILE:HD13	1:16:A:GLN:HB2	10	1.04
(1,2246)	1:13:A:TYR:HB3	1:45:A:LYS:HD2	7	1.04
(1,2092)	1:127:A:ALA:HB1	1:38:A:ILE:HG13	3	1.04
(1,2092)	1:127:A:ALA:HB2	1:38:A:ILE:HG13	3	1.04
(1,2092)	1:127:A:ALA:HB3	1:38:A:ILE:HG13	3	1.04
(1,1921)	1:115:A:VAL:HG11	1:113:A:ARG:HD3	4	1.04
(1,1921)	1:115:A:VAL:HG12	1:113:A:ARG:HD3	4	1.04
(1,1921)	1:115:A:VAL:HG13	1:113:A:ARG:HD3	4	1.04
(1,1880)	1:113:A:ARG:HB3	1:115:A:VAL:HG11	8	1.04
(1,1880)	1:113:A:ARG:HB3	1:115:A:VAL:HG12	8	1.04
(1,1880)	1:113:A:ARG:HB3	1:115:A:VAL:HG13	8	1.04
(1,1215)	1:75:A:LYS:HE3	1:72:A:ALA:HB1	4	1.04
(1,1215)	1:75:A:LYS:HE3	1:72:A:ALA:HB2	4	1.04
(1,1215)	1:75:A:LYS:HE3	1:72:A:ALA:HB3	4	1.04
(1,956)	1:60:A:LYS:HB3	1:49:A:VAL:HA	1	1.04
(1,633)	1:41:A:GLU:HG3	1:43:A:ILE:HD11	10	1.04
(1,633)	1:41:A:GLU:HG3	1:43:A:ILE:HD12	10	1.04
(1,633)	1:41:A:GLU:HG3	1:43:A:ILE:HD13	10	1.04
(2,349)	1:118:A:ILE:HG12	1:84:A:TYR:HB3	5	1.03
(2,249)	1:92:A:GLU:HG3	1:93:A:SER:HB2	1	1.03
(1,3382)	1:14:A:TRP:H	1:15:A:LEU:HB3	10	1.03
(1,2922)	1:67:A:GLU:H	1:22:A:LYS:HB2	1	1.03
(1,2163)	1:115:A:VAL:HG11	1:105:A:ILE:HA	8	1.03
(1,2163)	1:115:A:VAL:HG12	1:105:A:ILE:HA	8	1.03
(1,2163)	1:115:A:VAL:HG13	1:105:A:ILE:HA	8	1.03
(1,1526)	1:92:A:GLU:H	1:91:A:LEU:HG	6	1.03

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,22)	1:125:A:LYS:HG2	1:20:A:ILE:HD11	8	1.03
(1,22)	1:125:A:LYS:HG2	1:20:A:ILE:HD12	8	1.03
(1,22)	1:125:A:LYS:HG2	1:20:A:ILE:HD13	8	1.03
(2,465)	1:108:A:GLY:H	1:110:A:LEU:HB3	3	1.02
(1,3728)	1:97:A:LYS:H	1:95:A:ASN:HD21	1	1.02
(1,3579)	1:84:A:TYR:HB2	1:87:A:ASN:HD22	8	1.02
(1,3121)	1:45:A:LYS:H	1:45:A:LYS:HG3	10	1.02
(1,2922)	1:67:A:GLU:H	1:22:A:LYS:HB2	7	1.02
(1,2685)	1:76:A:ARG:HD2	1:91:A:LEU:H	8	1.02
(1,2620)	1:97:A:LYS:H	1:97:A:LYS:HB3	5	1.02
(1,2153)	1:118:A:ILE:HA	1:100:A:SER:HB2	8	1.02
(1,1317)	1:31:A:LYS:HG2	1:32:A:TYR:H	5	1.02
(1,1215)	1:75:A:LYS:HE3	1:72:A:ALA:HB1	6	1.02
(1,1215)	1:75:A:LYS:HE3	1:72:A:ALA:HB2	6	1.02
(1,1215)	1:75:A:LYS:HE3	1:72:A:ALA:HB3	6	1.02
(1,1095)	1:73:A:PRO:HG2	1:91:A:LEU:HD11	6	1.02
(1,1095)	1:73:A:PRO:HG2	1:91:A:LEU:HD12	6	1.02
(1,1095)	1:73:A:PRO:HG2	1:91:A:LEU:HD13	6	1.02
(1,958)	1:60:A:LYS:HE2	1:60:A:LYS:HB3	2	1.02
(1,958)	1:60:A:LYS:HE2	1:60:A:LYS:HB3	3	1.02
(1,958)	1:60:A:LYS:HE2	1:60:A:LYS:HB3	7	1.02
(1,453)	1:32:A:TYR:HD1	1:28:A:LEU:HD11	3	1.02
(1,453)	1:32:A:TYR:HD1	1:28:A:LEU:HD12	3	1.02
(1,453)	1:32:A:TYR:HD1	1:28:A:LEU:HD13	3	1.02
(1,453)	1:32:A:TYR:HD2	1:28:A:LEU:HD11	3	1.02
(1,453)	1:32:A:TYR:HD2	1:28:A:LEU:HD12	3	1.02
(1,453)	1:32:A:TYR:HD2	1:28:A:LEU:HD13	3	1.02
(3,635)	1:23:A:ILE:HG22	1:24:A:ILE:H	6	1.01
(2,344)	1:81:A:ASN:HB3	1:123:A:ILE:HA	3	1.01
(1,3837)	1:11:A:THR:HB	1:13:A:TYR:HE1	4	1.01
(1,3837)	1:11:A:THR:HB	1:13:A:TYR:HE2	4	1.01
(1,2604)	1:95:A:ASN:HB2	1:99:A:PHE:H	4	1.01
(1,2470)	1:113:A:ARG:H	1:115:A:VAL:HG11	8	1.01
(1,2470)	1:113:A:ARG:H	1:115:A:VAL:HG12	8	1.01
(1,2470)	1:113:A:ARG:H	1:115:A:VAL:HG13	8	1.01
(1,2333)	1:125:A:LYS:H	1:71:A:PRO:HD2	9	1.01
(1,1886)	1:115:A:VAL:HG11	1:113:A:ARG:HD3	10	1.01
(1,1886)	1:115:A:VAL:HG12	1:113:A:ARG:HD3	10	1.01
(1,1886)	1:115:A:VAL:HG13	1:113:A:ARG:HD3	10	1.01
(1,1881)	1:113:A:ARG:HD2	1:114:A:ARG:H	5	1.01
(1,1873)	1:113:A:ARG:HB2	1:115:A:VAL:HG11	5	1.01
(1,1873)	1:113:A:ARG:HB2	1:115:A:VAL:HG12	5	1.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1873)	1:113:A:ARG:HB2	1:115:A:VAL:HG13	5	1.01
(1,1521)	1:73:A:PRO:HD2	1:91:A:LEU:HD11	6	1.01
(1,1521)	1:73:A:PRO:HD2	1:91:A:LEU:HD12	6	1.01
(1,1521)	1:73:A:PRO:HD2	1:91:A:LEU:HD13	6	1.01
(1,1419)	1:84:A:TYR:HB2	1:87:A:ASN:HB3	9	1.01
(1,958)	1:60:A:LYS:HE2	1:60:A:LYS:HB3	5	1.01
(1,958)	1:60:A:LYS:HE2	1:60:A:LYS:HB3	8	1.01
(1,958)	1:60:A:LYS:HE2	1:60:A:LYS:HB3	9	1.01
(3,603)	1:25:A:THR:HG22	1:23:A:ILE:HD12	5	1.0
(2,465)	1:108:A:GLY:H	1:110:A:LEU:HB3	1	1.0
(2,398)	1:13:A:TYR:HB3	1:15:A:LEU:HD21	8	1.0
(2,398)	1:13:A:TYR:HB3	1:15:A:LEU:HD22	8	1.0
(2,398)	1:13:A:TYR:HB3	1:15:A:LEU:HD23	8	1.0
(1,3837)	1:11:A:THR:HB	1:13:A:TYR:HE1	3	1.0
(1,3837)	1:11:A:THR:HB	1:13:A:TYR:HE2	3	1.0
(1,3778)	1:45:A:LYS:HB3	1:46:A:TYR:HD1	9	1.0
(1,3778)	1:45:A:LYS:HB3	1:46:A:TYR:HD2	9	1.0
(1,3775)	1:13:A:TYR:HB2	1:46:A:TYR:HD1	3	1.0
(1,3775)	1:13:A:TYR:HB2	1:46:A:TYR:HD2	3	1.0
(1,3694)	1:68:A:THR:H	1:22:A:LYS:HB2	9	1.0
(1,3594)	1:97:A:LYS:H	1:95:A:ASN:HD22	7	1.0
(1,3422)	1:10:A:ARG:H	1:11:A:THR:HG21	3	1.0
(1,3422)	1:10:A:ARG:H	1:11:A:THR:HG22	3	1.0
(1,3422)	1:10:A:ARG:H	1:11:A:THR:HG23	3	1.0
(1,2620)	1:97:A:LYS:H	1:97:A:LYS:HB3	7	1.0
(1,2620)	1:97:A:LYS:H	1:97:A:LYS:HB3	8	1.0
(1,2620)	1:97:A:LYS:H	1:97:A:LYS:HB3	10	1.0
(1,2008)	1:80:A:LEU:HB3	1:123:A:ILE:HA	5	1.0
(1,2008)	1:80:A:LEU:HB3	1:123:A:ILE:HA	6	1.0
(1,1887)	1:76:A:ARG:HD3	1:126:A:LEU:HD21	7	1.0
(1,1887)	1:76:A:ARG:HD3	1:126:A:LEU:HD22	7	1.0
(1,1887)	1:76:A:ARG:HD3	1:126:A:LEU:HD23	7	1.0
(1,958)	1:60:A:LYS:HE2	1:60:A:LYS:HB3	4	1.0
(1,561)	1:39:A:VAL:HG21	1:18:A:GLU:H	1	1.0
(1,561)	1:39:A:VAL:HG22	1:18:A:GLU:H	1	1.0
(1,561)	1:39:A:VAL:HG23	1:18:A:GLU:H	1	1.0
(1,3422)	1:10:A:ARG:H	1:11:A:THR:HG21	4	0.99
(1,3422)	1:10:A:ARG:H	1:11:A:THR:HG22	4	0.99
(1,3422)	1:10:A:ARG:H	1:11:A:THR:HG23	4	0.99
(1,3253)	1:31:A:LYS:HG2	1:32:A:TYR:H	5	0.99
(1,3121)	1:45:A:LYS:H	1:45:A:LYS:HG3	1	0.99
(1,2922)	1:67:A:GLU:H	1:22:A:LYS:HB2	4	0.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2620)	1:97:A:LYS:H	1:97:A:LYS:HB3	9	0.99
(1,2165)	1:104:A:VAL:HG11	1:114:A:ARG:HA	4	0.99
(1,2165)	1:104:A:VAL:HG12	1:114:A:ARG:HA	4	0.99
(1,2165)	1:104:A:VAL:HG13	1:114:A:ARG:HA	4	0.99
(1,1927)	1:115:A:VAL:HG11	1:105:A:ILE:HG12	10	0.99
(1,1927)	1:115:A:VAL:HG12	1:105:A:ILE:HG12	10	0.99
(1,1927)	1:115:A:VAL:HG13	1:105:A:ILE:HG12	10	0.99
(1,1729)	1:106:A:GLU:HG2	1:105:A:ILE:HA	3	0.99
(1,958)	1:60:A:LYS:HE2	1:60:A:LYS:HB3	6	0.99
(1,958)	1:60:A:LYS:HE2	1:60:A:LYS:HB3	10	0.99
(1,561)	1:39:A:VAL:HG21	1:18:A:GLU:H	5	0.99
(1,561)	1:39:A:VAL:HG22	1:18:A:GLU:H	5	0.99
(1,561)	1:39:A:VAL:HG23	1:18:A:GLU:H	5	0.99
(3,814)	1:24:A:ILE:HD11	1:65:A:HIS:H	5	0.98
(3,583)	1:118:A:ILE:HD13	1:122:A:ASP:HB3	1	0.98
(3,567)	1:89:A:GLY:HA2	1:105:A:ILE:HD11	3	0.98
(3,564)	1:60:A:LYS:HE3	1:43:A:ILE:HD12	1	0.98
(3,466)	1:113:A:ARG:HA	1:113:A:ARG:HG3	2	0.98
(2,11)	1:9:A:ALA:HA	1:14:A:TRP:HA	6	0.98
(1,3594)	1:97:A:LYS:H	1:95:A:ASN:HD22	9	0.98
(1,3382)	1:14:A:TRP:H	1:15:A:LEU:HB3	2	0.98
(1,2620)	1:97:A:LYS:H	1:97:A:LYS:HB3	1	0.98
(1,2620)	1:97:A:LYS:H	1:97:A:LYS:HB3	3	0.98
(1,2620)	1:97:A:LYS:H	1:97:A:LYS:HB3	4	0.98
(1,2165)	1:104:A:VAL:HG11	1:114:A:ARG:HA	6	0.98
(1,2165)	1:104:A:VAL:HG12	1:114:A:ARG:HA	6	0.98
(1,2165)	1:104:A:VAL:HG13	1:114:A:ARG:HA	6	0.98
(1,2008)	1:80:A:LEU:HB3	1:123:A:ILE:HA	7	0.98
(1,1887)	1:76:A:ARG:HD3	1:126:A:LEU:HD21	8	0.98
(1,1887)	1:76:A:ARG:HD3	1:126:A:LEU:HD22	8	0.98
(1,1887)	1:76:A:ARG:HD3	1:126:A:LEU:HD23	8	0.98
(1,958)	1:60:A:LYS:HE2	1:60:A:LYS:HB3	1	0.98
(1,14)	1:5:A:LYS:HA	1:5:A:LYS:HD2	3	0.98
(3,1144)	1:45:A:LYS:H	1:45:A:LYS:HD2	9	0.97
(3,857)	1:114:A:ARG:HB3	1:115:A:VAL:HG13	9	0.97
(3,466)	1:113:A:ARG:HA	1:113:A:ARG:HG3	5	0.97
(3,389)	1:73:A:PRO:HG3	1:91:A:LEU:HD12	7	0.97
(2,465)	1:108:A:GLY:H	1:110:A:LEU:HB3	5	0.97
(1,3121)	1:45:A:LYS:H	1:45:A:LYS:HG3	8	0.97
(1,2287)	1:20:A:ILE:HA	1:38:A:ILE:HG13	8	0.97
(1,2165)	1:104:A:VAL:HG11	1:114:A:ARG:HA	7	0.97
(1,2165)	1:104:A:VAL:HG12	1:114:A:ARG:HA	7	0.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2165)	1:104:A:VAL:HG13	1:114:A:ARG:HA	7	0.97
(1,2153)	1:118:A:ILE:HA	1:100:A:SER:HB2	6	0.97
(1,2092)	1:127:A:ALA:HB1	1:38:A:ILE:HG13	2	0.97
(1,2092)	1:127:A:ALA:HB2	1:38:A:ILE:HG13	2	0.97
(1,2092)	1:127:A:ALA:HB3	1:38:A:ILE:HG13	2	0.97
(1,1915)	1:115:A:VAL:HG11	1:115:A:VAL:H	10	0.97
(1,1915)	1:115:A:VAL:HG12	1:115:A:VAL:H	10	0.97
(1,1915)	1:115:A:VAL:HG13	1:115:A:VAL:H	10	0.97
(1,1881)	1:113:A:ARG:HD2	1:114:A:ARG:H	4	0.97
(1,1519)	1:73:A:PRO:HA	1:91:A:LEU:HD11	10	0.97
(1,1519)	1:73:A:PRO:HA	1:91:A:LEU:HD12	10	0.97
(1,1519)	1:73:A:PRO:HA	1:91:A:LEU:HD13	10	0.97
(3,466)	1:113:A:ARG:HA	1:113:A:ARG:HG3	3	0.96
(3,401)	1:15:A:LEU:HD22	1:80:A:LEU:HD13	3	0.96
(2,398)	1:13:A:TYR:HB3	1:15:A:LEU:HD21	7	0.96
(2,398)	1:13:A:TYR:HB3	1:15:A:LEU:HD22	7	0.96
(2,398)	1:13:A:TYR:HB3	1:15:A:LEU:HD23	7	0.96
(2,249)	1:92:A:GLU:HG3	1:93:A:SER:HB2	6	0.96
(1,3780)	1:63:A:GLN:HB2	1:46:A:TYR:HD1	5	0.96
(1,3780)	1:63:A:GLN:HB2	1:46:A:TYR:HD2	5	0.96
(1,3331)	1:20:A:ILE:H	1:124:A:SER:HB3	1	0.96
(1,2165)	1:104:A:VAL:HG11	1:114:A:ARG:HA	5	0.96
(1,2165)	1:104:A:VAL:HG12	1:114:A:ARG:HA	5	0.96
(1,2165)	1:104:A:VAL:HG13	1:114:A:ARG:HA	5	0.96
(1,1915)	1:115:A:VAL:HG11	1:115:A:VAL:H	4	0.96
(1,1915)	1:115:A:VAL:HG12	1:115:A:VAL:H	4	0.96
(1,1915)	1:115:A:VAL:HG13	1:115:A:VAL:H	4	0.96
(1,1886)	1:115:A:VAL:HG11	1:113:A:ARG:HD3	8	0.96
(1,1886)	1:115:A:VAL:HG12	1:113:A:ARG:HD3	8	0.96
(1,1886)	1:115:A:VAL:HG13	1:113:A:ARG:HD3	8	0.96
(1,1535)	1:93:A:SER:HA	1:91:A:LEU:HG	6	0.96
(1,1521)	1:73:A:PRO:HD2	1:91:A:LEU:HD11	3	0.96
(1,1521)	1:73:A:PRO:HD2	1:91:A:LEU:HD12	3	0.96
(1,1521)	1:73:A:PRO:HD2	1:91:A:LEU:HD13	3	0.96
(1,1095)	1:73:A:PRO:HG2	1:91:A:LEU:HD11	3	0.96
(1,1095)	1:73:A:PRO:HG2	1:91:A:LEU:HD12	3	0.96
(1,1095)	1:73:A:PRO:HG2	1:91:A:LEU:HD13	3	0.96
(1,596)	1:49:A:VAL:HB	1:40:A:LYS:HB3	1	0.96
(3,1156)	1:9:A:ALA:HB2	1:10:A:ARG:H	3	0.95
(3,177)	1:40:A:LYS:HE3	1:40:A:LYS:HA	9	0.95
(2,602)	1:60:A:LYS:HE2	1:59:A:LEU:H	4	0.95
(2,249)	1:92:A:GLU:HG3	1:93:A:SER:HB2	4	0.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3594)	1:97:A:LYS:H	1:95:A:ASN:HD22	10	0.95
(1,2737)	1:78:A:LEU:HD21	1:87:A:ASN:H	6	0.95
(1,2737)	1:78:A:LEU:HD22	1:87:A:ASN:H	6	0.95
(1,2737)	1:78:A:LEU:HD23	1:87:A:ASN:H	6	0.95
(1,2323)	1:126:A:LEU:H	1:71:A:PRO:HD2	4	0.95
(1,2165)	1:104:A:VAL:HG11	1:114:A:ARG:HA	9	0.95
(1,2165)	1:104:A:VAL:HG12	1:114:A:ARG:HA	9	0.95
(1,2165)	1:104:A:VAL:HG13	1:114:A:ARG:HA	9	0.95
(1,1915)	1:115:A:VAL:HG11	1:115:A:VAL:H	6	0.95
(1,1915)	1:115:A:VAL:HG12	1:115:A:VAL:H	6	0.95
(1,1915)	1:115:A:VAL:HG13	1:115:A:VAL:H	6	0.95
(1,1915)	1:115:A:VAL:HG11	1:115:A:VAL:H	8	0.95
(1,1915)	1:115:A:VAL:HG12	1:115:A:VAL:H	8	0.95
(1,1915)	1:115:A:VAL:HG13	1:115:A:VAL:H	8	0.95
(1,1890)	1:84:A:TYR:HE1	1:113:A:ARG:HD3	9	0.95
(1,1890)	1:84:A:TYR:HE2	1:113:A:ARG:HD3	9	0.95
(1,1880)	1:113:A:ARG:HB3	1:115:A:VAL:HG11	6	0.95
(1,1880)	1:113:A:ARG:HB3	1:115:A:VAL:HG12	6	0.95
(1,1880)	1:113:A:ARG:HB3	1:115:A:VAL:HG13	6	0.95
(1,1370)	1:122:A:ASP:HA	1:80:A:LEU:HB3	7	0.95
(3,857)	1:114:A:ARG:HB3	1:115:A:VAL:HG13	8	0.94
(3,814)	1:24:A:ILE:HD13	1:65:A:HIS:H	3	0.94
(3,603)	1:25:A:THR:HG21	1:23:A:ILE:HD12	3	0.94
(3,501)	1:49:A:VAL:HG11	1:40:A:LYS:HB3	2	0.94
(3,501)	1:49:A:VAL:HG12	1:40:A:LYS:HB3	8	0.94
(3,466)	1:113:A:ARG:HA	1:113:A:ARG:HG3	9	0.94
(2,479)	1:102:A:THR:H	1:100:A:SER:HB3	3	0.94
(2,61)	1:26:A:LYS:HE2	1:24:A:ILE:HA	7	0.94
(1,2922)	1:67:A:GLU:H	1:22:A:LYS:HB2	8	0.94
(1,2685)	1:76:A:ARG:HD2	1:91:A:LEU:H	7	0.94
(1,2675)	1:92:A:GLU:H	1:91:A:LEU:HG	6	0.94
(1,2434)	1:116:A:GLU:H	1:116:A:GLU:HG2	9	0.94
(1,2251)	1:60:A:LYS:HE2	1:49:A:VAL:HA	3	0.94
(1,1892)	1:113:A:ARG:HD2	1:114:A:ARG:H	2	0.94
(1,1887)	1:76:A:ARG:HD3	1:126:A:LEU:HD21	4	0.94
(1,1887)	1:76:A:ARG:HD3	1:126:A:LEU:HD22	4	0.94
(1,1887)	1:76:A:ARG:HD3	1:126:A:LEU:HD23	4	0.94
(1,751)	1:46:A:TYR:HA	1:63:A:GLN:HB2	6	0.94
(1,281)	1:20:A:ILE:HD11	1:20:A:ILE:HB	8	0.94
(1,281)	1:20:A:ILE:HD12	1:20:A:ILE:HB	8	0.94
(1,281)	1:20:A:ILE:HD13	1:20:A:ILE:HB	8	0.94
(3,466)	1:113:A:ARG:HA	1:113:A:ARG:HG3	6	0.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3590)	1:97:A:LYS:HB3	1:95:A:ASN:HD21	1	0.93
(1,3590)	1:97:A:LYS:HB3	1:95:A:ASN:HD21	10	0.93
(1,3579)	1:84:A:TYR:HB2	1:87:A:ASN:HD22	2	0.93
(1,3346)	1:39:A:VAL:HG21	1:18:A:GLU:H	10	0.93
(1,3346)	1:39:A:VAL:HG22	1:18:A:GLU:H	10	0.93
(1,3346)	1:39:A:VAL:HG23	1:18:A:GLU:H	10	0.93
(1,2710)	1:77:A:ILE:HG12	1:89:A:GLY:H	1	0.93
(1,2470)	1:113:A:ARG:H	1:115:A:VAL:HG11	6	0.93
(1,2470)	1:113:A:ARG:H	1:115:A:VAL:HG12	6	0.93
(1,2470)	1:113:A:ARG:H	1:115:A:VAL:HG13	6	0.93
(1,2437)	1:118:A:ILE:HG13	1:116:A:GLU:H	9	0.93
(1,2165)	1:104:A:VAL:HG11	1:114:A:ARG:HA	3	0.93
(1,2165)	1:104:A:VAL:HG12	1:114:A:ARG:HA	3	0.93
(1,2165)	1:104:A:VAL:HG13	1:114:A:ARG:HA	3	0.93
(1,2163)	1:115:A:VAL:HG11	1:105:A:ILE:HA	4	0.93
(1,2163)	1:115:A:VAL:HG12	1:105:A:ILE:HA	4	0.93
(1,2163)	1:115:A:VAL:HG13	1:105:A:ILE:HA	4	0.93
(1,2153)	1:118:A:ILE:HA	1:100:A:SER:HB2	10	0.93
(1,1915)	1:115:A:VAL:HG11	1:115:A:VAL:H	9	0.93
(1,1915)	1:115:A:VAL:HG12	1:115:A:VAL:H	9	0.93
(1,1915)	1:115:A:VAL:HG13	1:115:A:VAL:H	9	0.93
(1,1906)	1:115:A:VAL:HA	1:116:A:GLU:HG2	1	0.93
(1,1529)	1:73:A:PRO:HA	1:91:A:LEU:HG	7	0.93
(1,1215)	1:75:A:LYS:HE3	1:72:A:ALA:HB1	9	0.93
(1,1215)	1:75:A:LYS:HE3	1:72:A:ALA:HB2	9	0.93
(1,1215)	1:75:A:LYS:HE3	1:72:A:ALA:HB3	9	0.93
(3,1173)	1:84:A:TYR:HE1	1:113:A:ARG:HG2	8	0.92
(3,1144)	1:45:A:LYS:H	1:45:A:LYS:HD2	4	0.92
(3,814)	1:24:A:ILE:HD12	1:65:A:HIS:H	9	0.92
(3,466)	1:113:A:ARG:HA	1:113:A:ARG:HG3	8	0.92
(3,177)	1:40:A:LYS:HE3	1:40:A:LYS:HA	1	0.92
(2,566)	1:63:A:GLN:HB2	1:46:A:TYR:H	6	0.92
(2,465)	1:108:A:GLY:H	1:110:A:LEU:HB3	6	0.92
(1,3648)	1:16:A:GLN:HE22	1:80:A:LEU:HG	10	0.92
(1,3508)	1:40:A:LYS:HE3	1:41:A:GLU:H	6	0.92
(1,2922)	1:67:A:GLU:H	1:22:A:LYS:HB2	6	0.92
(1,2922)	1:67:A:GLU:H	1:22:A:LYS:HB2	9	0.92
(1,2223)	1:119:A:GLN:H	1:100:A:SER:HB2	4	0.92
(1,2201)	1:105:A:ILE:HG21	1:84:A:TYR:HB2	9	0.92
(1,2201)	1:105:A:ILE:HG22	1:84:A:TYR:HB2	9	0.92
(1,2201)	1:105:A:ILE:HG23	1:84:A:TYR:HB2	9	0.92
(1,2148)	1:93:A:SER:H	1:91:A:LEU:HG	6	0.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2008)	1:80:A:LEU:HB3	1:123:A:ILE:HA	2	0.92
(1,1927)	1:115:A:VAL:HG11	1:105:A:ILE:HG12	4	0.92
(1,1927)	1:115:A:VAL:HG12	1:105:A:ILE:HG12	4	0.92
(1,1927)	1:115:A:VAL:HG13	1:105:A:ILE:HG12	4	0.92
(1,1881)	1:113:A:ARG:HD2	1:114:A:ARG:H	1	0.92
(1,1751)	1:115:A:VAL:HG11	1:105:A:ILE:HG12	6	0.92
(1,1751)	1:115:A:VAL:HG12	1:105:A:ILE:HG12	6	0.92
(1,1751)	1:115:A:VAL:HG13	1:105:A:ILE:HG12	6	0.92
(1,1529)	1:73:A:PRO:HA	1:91:A:LEU:HG	6	0.92
(1,685)	1:60:A:LYS:HE3	1:43:A:ILE:HD11	10	0.92
(1,685)	1:60:A:LYS:HE3	1:43:A:ILE:HD12	10	0.92
(1,685)	1:60:A:LYS:HE3	1:43:A:ILE:HD13	10	0.92
(1,673)	1:41:A:GLU:HG3	1:43:A:ILE:HA	2	0.92
(3,451)	1:121:A:GLU:H	1:118:A:ILE:HG22	2	0.91
(3,186)	1:52:A:MET:HG3	1:59:A:LEU:H	4	0.91
(1,3460)	1:78:A:LEU:HD11	1:16:A:GLN:HE22	4	0.91
(1,3460)	1:78:A:LEU:HD12	1:16:A:GLN:HE22	4	0.91
(1,3460)	1:78:A:LEU:HD13	1:16:A:GLN:HE22	4	0.91
(1,2685)	1:76:A:ARG:HD2	1:91:A:LEU:H	2	0.91
(1,2441)	1:84:A:TYR:HE1	1:116:A:GLU:H	5	0.91
(1,2441)	1:84:A:TYR:HE2	1:116:A:GLU:H	5	0.91
(1,1873)	1:113:A:ARG:HB2	1:115:A:VAL:HG11	2	0.91
(1,1873)	1:113:A:ARG:HB2	1:115:A:VAL:HG12	2	0.91
(1,1873)	1:113:A:ARG:HB2	1:115:A:VAL:HG13	2	0.91
(1,1177)	1:70:A:ILE:HG13	1:69:A:VAL:HA	8	0.91
(1,915)	1:60:A:LYS:HE2	1:60:A:LYS:HB3	2	0.91
(1,915)	1:60:A:LYS:HE2	1:60:A:LYS:HB3	3	0.91
(1,915)	1:60:A:LYS:HE2	1:60:A:LYS:HB3	7	0.91
(1,915)	1:60:A:LYS:HE2	1:60:A:LYS:HB3	9	0.91
(1,633)	1:41:A:GLU:HG3	1:43:A:ILE:HD11	1	0.91
(1,633)	1:41:A:GLU:HG3	1:43:A:ILE:HD12	1	0.91
(1,633)	1:41:A:GLU:HG3	1:43:A:ILE:HD13	1	0.91
(1,561)	1:39:A:VAL:HG21	1:18:A:GLU:H	2	0.91
(1,561)	1:39:A:VAL:HG22	1:18:A:GLU:H	2	0.91
(1,561)	1:39:A:VAL:HG23	1:18:A:GLU:H	2	0.91
(3,876)	1:10:A:ARG:HD2	1:81:A:ASN:HD21	2	0.9
(3,603)	1:25:A:THR:HG21	1:23:A:ILE:HD13	7	0.9
(3,389)	1:91:A:LEU:HD11	1:71:A:PRO:HG3	3	0.9
(2,611)	1:123:A:ILE:H	1:81:A:ASN:HB3	1	0.9
(1,3346)	1:39:A:VAL:HG21	1:18:A:GLU:H	4	0.9
(1,3346)	1:39:A:VAL:HG22	1:18:A:GLU:H	4	0.9
(1,3346)	1:39:A:VAL:HG23	1:18:A:GLU:H	4	0.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2153)	1:118:A:ILE:HA	1:100:A:SER:HB2	9	0.9
(1,1959)	1:118:A:ILE:HD11	1:122:A:ASP:HB2	6	0.9
(1,1959)	1:118:A:ILE:HD12	1:122:A:ASP:HB2	6	0.9
(1,1959)	1:118:A:ILE:HD13	1:122:A:ASP:HB2	6	0.9
(1,1887)	1:76:A:ARG:HD3	1:126:A:LEU:HD21	2	0.9
(1,1887)	1:76:A:ARG:HD3	1:126:A:LEU:HD22	2	0.9
(1,1887)	1:76:A:ARG:HD3	1:126:A:LEU:HD23	2	0.9
(1,1285)	1:76:A:ARG:HG2	1:126:A:LEU:HD21	6	0.9
(1,1285)	1:76:A:ARG:HG2	1:126:A:LEU:HD22	6	0.9
(1,1285)	1:76:A:ARG:HG2	1:126:A:LEU:HD23	6	0.9
(1,915)	1:60:A:LYS:HE2	1:60:A:LYS:HB3	4	0.9
(1,915)	1:60:A:LYS:HE2	1:60:A:LYS:HB3	5	0.9
(1,915)	1:60:A:LYS:HE2	1:60:A:LYS:HB3	8	0.9
(3,892)	1:25:A:THR:HG21	1:25:A:THR:HA	1	0.89
(3,814)	1:24:A:ILE:HD12	1:65:A:HIS:H	4	0.89
(2,398)	1:13:A:TYR:HB3	1:15:A:LEU:HD21	9	0.89
(2,398)	1:13:A:TYR:HB3	1:15:A:LEU:HD22	9	0.89
(2,398)	1:13:A:TYR:HB3	1:15:A:LEU:HD23	9	0.89
(2,11)	1:9:A:ALA:HA	1:14:A:TRP:HA	5	0.89
(1,3728)	1:97:A:LYS:H	1:95:A:ASN:HD21	2	0.89
(1,3694)	1:68:A:THR:H	1:22:A:LYS:HB2	6	0.89
(1,3560)	1:10:A:ARG:HB2	1:81:A:ASN:HD21	2	0.89
(1,3382)	1:14:A:TRP:H	1:15:A:LEU:HB3	8	0.89
(1,3121)	1:45:A:LYS:H	1:45:A:LYS:HG3	2	0.89
(1,2849)	1:76:A:ARG:H	1:76:A:ARG:HG3	5	0.89
(1,2491)	1:110:A:LEU:HB3	1:110:A:LEU:H	3	0.89
(1,1177)	1:70:A:ILE:HG13	1:69:A:VAL:HA	4	0.89
(1,1037)	1:63:A:GLN:HG2	1:64:A:THR:HA	1	0.89
(1,915)	1:60:A:LYS:HE2	1:60:A:LYS:HB3	6	0.89
(1,915)	1:60:A:LYS:HE2	1:60:A:LYS:HB3	10	0.89
(1,685)	1:60:A:LYS:HE3	1:43:A:ILE:HD11	5	0.89
(1,685)	1:60:A:LYS:HE3	1:43:A:ILE:HD12	5	0.89
(1,685)	1:60:A:LYS:HE3	1:43:A:ILE:HD13	5	0.89
(1,561)	1:39:A:VAL:HG21	1:18:A:GLU:H	3	0.89
(1,561)	1:39:A:VAL:HG22	1:18:A:GLU:H	3	0.89
(1,561)	1:39:A:VAL:HG23	1:18:A:GLU:H	3	0.89
(3,892)	1:25:A:THR:HG21	1:25:A:THR:HA	2	0.88
(3,892)	1:25:A:THR:HG22	1:25:A:THR:HA	8	0.88
(3,892)	1:25:A:THR:HG23	1:25:A:THR:HA	9	0.88
(3,401)	1:15:A:LEU:HD21	1:80:A:LEU:HD12	6	0.88
(3,389)	1:73:A:PRO:HG3	1:91:A:LEU:HD12	8	0.88
(3,31)	1:75:A:LYS:HE3	1:76:A:ARG:H	5	0.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3460)	1:78:A:LEU:HD11	1:16:A:GLN:HE22	2	0.88
(1,3460)	1:78:A:LEU:HD12	1:16:A:GLN:HE22	2	0.88
(1,3460)	1:78:A:LEU:HD13	1:16:A:GLN:HE22	2	0.88
(1,2861)	1:75:A:LYS:H	1:91:A:LEU:HD11	10	0.88
(1,2861)	1:75:A:LYS:H	1:91:A:LEU:HD12	10	0.88
(1,2861)	1:75:A:LYS:H	1:91:A:LEU:HD13	10	0.88
(1,2491)	1:110:A:LEU:HB3	1:110:A:LEU:H	1	0.88
(1,2434)	1:116:A:GLU:H	1:116:A:GLU:HG2	5	0.88
(1,2165)	1:104:A:VAL:HG11	1:114:A:ARG:HA	8	0.88
(1,2165)	1:104:A:VAL:HG12	1:114:A:ARG:HA	8	0.88
(1,2165)	1:104:A:VAL:HG13	1:114:A:ARG:HA	8	0.88
(1,1887)	1:76:A:ARG:HD3	1:126:A:LEU:HD21	9	0.88
(1,1887)	1:76:A:ARG:HD3	1:126:A:LEU:HD22	9	0.88
(1,1887)	1:76:A:ARG:HD3	1:126:A:LEU:HD23	9	0.88
(1,1881)	1:113:A:ARG:HD2	1:114:A:ARG:H	8	0.88
(1,1873)	1:113:A:ARG:HB2	1:115:A:VAL:HG11	1	0.88
(1,1873)	1:113:A:ARG:HB2	1:115:A:VAL:HG12	1	0.88
(1,1873)	1:113:A:ARG:HB2	1:115:A:VAL:HG13	1	0.88
(1,633)	1:41:A:GLU:HG3	1:43:A:ILE:HD11	8	0.88
(1,633)	1:41:A:GLU:HG3	1:43:A:ILE:HD12	8	0.88
(1,633)	1:41:A:GLU:HG3	1:43:A:ILE:HD13	8	0.88
(1,201)	1:73:A:PRO:HG2	1:91:A:LEU:HD11	6	0.88
(1,201)	1:73:A:PRO:HG2	1:91:A:LEU:HD12	6	0.88
(1,201)	1:73:A:PRO:HG2	1:91:A:LEU:HD13	6	0.88
(3,892)	1:25:A:THR:HG22	1:25:A:THR:HA	4	0.87
(3,892)	1:25:A:THR:HG22	1:25:A:THR:HA	5	0.87
(3,876)	1:10:A:ARG:HD3	1:81:A:ASN:HD21	7	0.87
(3,795)	1:48:A:ALA:H	1:63:A:GLN:HA	6	0.87
(3,777)	1:18:A:GLU:H	1:38:A:ILE:HG23	9	0.87
(3,401)	1:15:A:LEU:HD23	1:80:A:LEU:HD11	8	0.87
(2,465)	1:108:A:GLY:H	1:110:A:LEU:HB3	7	0.87
(1,3579)	1:84:A:TYR:HB2	1:87:A:ASN:HD22	7	0.87
(1,3493)	1:26:A:LYS:HB2	1:33:A:HIS:H	6	0.87
(1,3210)	1:36:A:LYS:H	1:36:A:LYS:HE3	4	0.87
(1,2781)	1:85:A:ARG:HD2	1:82:A:GLY:H	8	0.87
(1,2491)	1:110:A:LEU:HB3	1:110:A:LEU:H	5	0.87
(1,2434)	1:116:A:GLU:H	1:116:A:GLU:HG2	8	0.87
(1,2366)	1:121:A:GLU:H	1:121:A:GLU:HB2	4	0.87
(1,2366)	1:121:A:GLU:H	1:121:A:GLU:HB2	7	0.87
(1,2246)	1:13:A:TYR:HB3	1:45:A:LYS:HD2	6	0.87
(1,1887)	1:76:A:ARG:HD3	1:126:A:LEU:HD21	5	0.87
(1,1887)	1:76:A:ARG:HD3	1:126:A:LEU:HD22	5	0.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1887)	1:76:A:ARG:HD3	1:126:A:LEU:HD23	5	0.87
(1,1641)	1:117:A:GLY:HA3	1:100:A:SER:HB2	4	0.87
(1,959)	1:60:A:LYS:HD2	1:61:A:LEU:H	1	0.87
(1,959)	1:60:A:LYS:HD2	1:61:A:LEU:H	2	0.87
(1,915)	1:60:A:LYS:HE2	1:60:A:LYS:HB3	1	0.87
(1,751)	1:46:A:TYR:HA	1:63:A:GLN:HB2	3	0.87
(3,892)	1:25:A:THR:HG23	1:25:A:THR:HA	3	0.86
(3,892)	1:25:A:THR:HG23	1:25:A:THR:HA	7	0.86
(3,699)	1:110:A:LEU:HA	1:105:A:ILE:HG23	6	0.86
(3,339)	1:30:A:GLU:HG2	1:32:A:TYR:H	6	0.86
(3,241)	1:17:A:PRO:HD3	1:16:A:GLN:HE22	1	0.86
(2,465)	1:108:A:GLY:H	1:110:A:LEU:HB3	4	0.86
(2,349)	1:118:A:ILE:HG12	1:84:A:TYR:HB3	7	0.86
(1,3780)	1:63:A:GLN:HB2	1:46:A:TYR:HD1	9	0.86
(1,3780)	1:63:A:GLN:HB2	1:46:A:TYR:HD2	9	0.86
(1,3579)	1:84:A:TYR:HB2	1:87:A:ASN:HD22	3	0.86
(1,3508)	1:40:A:LYS:HE3	1:41:A:GLU:H	9	0.86
(1,2849)	1:76:A:ARG:H	1:76:A:ARG:HG3	3	0.86
(1,2849)	1:76:A:ARG:H	1:76:A:ARG:HG3	4	0.86
(1,2849)	1:76:A:ARG:H	1:76:A:ARG:HG3	8	0.86
(1,2849)	1:76:A:ARG:H	1:76:A:ARG:HG3	10	0.86
(1,2719)	1:88:A:GLU:H	1:87:A:ASN:HB2	4	0.86
(1,2719)	1:88:A:GLU:H	1:87:A:ASN:HB2	9	0.86
(1,2491)	1:110:A:LEU:HB3	1:110:A:LEU:H	6	0.86
(1,2434)	1:116:A:GLU:H	1:116:A:GLU:HG2	4	0.86
(1,2366)	1:121:A:GLU:H	1:121:A:GLU:HB2	9	0.86
(1,1892)	1:113:A:ARG:HD2	1:114:A:ARG:H	5	0.86
(1,1890)	1:84:A:TYR:HE1	1:113:A:ARG:HD3	10	0.86
(1,1890)	1:84:A:TYR:HE2	1:113:A:ARG:HD3	10	0.86
(1,1880)	1:113:A:ARG:HB3	1:115:A:VAL:HG11	4	0.86
(1,1880)	1:113:A:ARG:HB3	1:115:A:VAL:HG12	4	0.86
(1,1880)	1:113:A:ARG:HB3	1:115:A:VAL:HG13	4	0.86
(1,1733)	1:122:A:ASP:H	1:121:A:GLU:HG3	3	0.86
(1,1641)	1:117:A:GLY:HA3	1:100:A:SER:HB2	7	0.86
(1,1527)	1:93:A:SER:H	1:91:A:LEU:HG	2	0.86
(1,1037)	1:63:A:GLN:HG2	1:64:A:THR:HA	10	0.86
(1,561)	1:39:A:VAL:HG21	1:18:A:GLU:H	6	0.86
(1,561)	1:39:A:VAL:HG22	1:18:A:GLU:H	6	0.86
(1,561)	1:39:A:VAL:HG23	1:18:A:GLU:H	6	0.86
(1,59)	1:10:A:ARG:HB2	1:81:A:ASN:HD21	10	0.86
(3,615)	1:105:A:ILE:HA	1:87:A:ASN:HB2	2	0.85
(3,389)	1:73:A:PRO:HG3	1:91:A:LEU:HD11	2	0.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,162)	1:15:A:LEU:H	1:48:A:ALA:HB3	10	0.85
(2,366)	1:107:A:THR:HB	1:88:A:GLU:HG3	1	0.85
(2,365)	1:107:A:THR:HB	1:88:A:GLU:HG3	1	0.85
(1,3579)	1:84:A:TYR:HB2	1:87:A:ASN:HD22	9	0.85
(1,2849)	1:76:A:ARG:H	1:76:A:ARG:HG3	6	0.85
(1,2685)	1:76:A:ARG:HD2	1:91:A:LEU:H	9	0.85
(1,2621)	1:97:A:LYS:H	1:97:A:LYS:HD3	10	0.85
(1,2491)	1:110:A:LEU:HB3	1:110:A:LEU:H	4	0.85
(1,2491)	1:110:A:LEU:HB3	1:110:A:LEU:H	7	0.85
(1,2491)	1:110:A:LEU:HB3	1:110:A:LEU:H	9	0.85
(1,2470)	1:113:A:ARG:H	1:115:A:VAL:HG11	4	0.85
(1,2470)	1:113:A:ARG:H	1:115:A:VAL:HG12	4	0.85
(1,2470)	1:113:A:ARG:H	1:115:A:VAL:HG13	4	0.85
(1,2470)	1:113:A:ARG:H	1:115:A:VAL:HG11	9	0.85
(1,2470)	1:113:A:ARG:H	1:115:A:VAL:HG12	9	0.85
(1,2470)	1:113:A:ARG:H	1:115:A:VAL:HG13	9	0.85
(1,2437)	1:118:A:ILE:HG13	1:116:A:GLU:H	4	0.85
(1,2434)	1:116:A:GLU:H	1:116:A:GLU:HG2	6	0.85
(1,2366)	1:121:A:GLU:H	1:121:A:GLU:HB2	5	0.85
(1,2366)	1:121:A:GLU:H	1:121:A:GLU:HB2	8	0.85
(1,2366)	1:121:A:GLU:H	1:121:A:GLU:HB2	10	0.85
(1,2333)	1:125:A:LYS:H	1:71:A:PRO:HD2	6	0.85
(1,2165)	1:104:A:VAL:HG11	1:114:A:ARG:HA	2	0.85
(1,2165)	1:104:A:VAL:HG12	1:114:A:ARG:HA	2	0.85
(1,2165)	1:104:A:VAL:HG13	1:114:A:ARG:HA	2	0.85
(1,1886)	1:115:A:VAL:HG11	1:113:A:ARG:HD3	6	0.85
(1,1886)	1:115:A:VAL:HG12	1:113:A:ARG:HD3	6	0.85
(1,1886)	1:115:A:VAL:HG13	1:113:A:ARG:HD3	6	0.85
(1,1880)	1:113:A:ARG:HB3	1:115:A:VAL:HG11	9	0.85
(1,1880)	1:113:A:ARG:HB3	1:115:A:VAL:HG12	9	0.85
(1,1880)	1:113:A:ARG:HB3	1:115:A:VAL:HG13	9	0.85
(1,1840)	1:110:A:LEU:H	1:110:A:LEU:HD11	10	0.85
(1,1840)	1:110:A:LEU:H	1:110:A:LEU:HD12	10	0.85
(1,1840)	1:110:A:LEU:H	1:110:A:LEU:HD13	10	0.85
(1,1527)	1:93:A:SER:H	1:91:A:LEU:HG	4	0.85
(1,1465)	1:78:A:LEU:HD21	1:88:A:GLU:HA	6	0.85
(1,1465)	1:78:A:LEU:HD22	1:88:A:GLU:HA	6	0.85
(1,1465)	1:78:A:LEU:HD23	1:88:A:GLU:HA	6	0.85
(1,1285)	1:76:A:ARG:HG2	1:126:A:LEU:HD21	8	0.85
(1,1285)	1:76:A:ARG:HG2	1:126:A:LEU:HD22	8	0.85
(1,1285)	1:76:A:ARG:HG2	1:126:A:LEU:HD23	8	0.85
(1,751)	1:46:A:TYR:HA	1:63:A:GLN:HB2	5	0.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,581)	1:78:A:LEU:HD21	1:88:A:GLU:HA	6	0.85
(1,581)	1:78:A:LEU:HD22	1:88:A:GLU:HA	6	0.85
(1,581)	1:78:A:LEU:HD23	1:88:A:GLU:HA	6	0.85
(1,75)	1:11:A:THR:HB	1:13:A:TYR:HD1	3	0.85
(1,75)	1:11:A:THR:HB	1:13:A:TYR:HD2	3	0.85
(3,850)	1:15:A:LEU:HD11	1:14:A:TRP:HH2	3	0.84
(3,850)	1:15:A:LEU:HD13	1:14:A:TRP:HH2	5	0.84
(3,850)	1:15:A:LEU:HD13	1:14:A:TRP:HH2	10	0.84
(3,777)	1:18:A:GLU:H	1:38:A:ILE:HG22	5	0.84
(3,451)	1:121:A:GLU:H	1:118:A:ILE:HG22	3	0.84
(3,125)	1:44:A:ASP:HB2	1:46:A:TYR:HD2	1	0.84
(1,3758)	1:27:A:LYS:HD3	1:65:A:HIS:HE1	1	0.84
(1,3726)	1:95:A:ASN:HD21	1:98:A:THR:HB	8	0.84
(1,3594)	1:97:A:LYS:H	1:95:A:ASN:HD22	8	0.84
(1,2922)	1:67:A:GLU:H	1:22:A:LYS:HB2	2	0.84
(1,2685)	1:76:A:ARG:HD2	1:91:A:LEU:H	4	0.84
(1,2584)	1:100:A:SER:H	1:119:A:GLN:HE22	6	0.84
(1,2491)	1:110:A:LEU:HB3	1:110:A:LEU:H	8	0.84
(1,2491)	1:110:A:LEU:HB3	1:110:A:LEU:H	10	0.84
(1,2366)	1:121:A:GLU:H	1:121:A:GLU:HB2	1	0.84
(1,2333)	1:125:A:LYS:H	1:71:A:PRO:HD2	2	0.84
(1,2008)	1:80:A:LEU:HB3	1:123:A:ILE:HA	3	0.84
(1,2008)	1:80:A:LEU:HB3	1:123:A:ILE:HA	8	0.84
(1,1958)	1:118:A:ILE:HD11	1:118:A:ILE:HA	6	0.84
(1,1958)	1:118:A:ILE:HD12	1:118:A:ILE:HA	6	0.84
(1,1958)	1:118:A:ILE:HD13	1:118:A:ILE:HA	6	0.84
(1,1890)	1:84:A:TYR:HE1	1:113:A:ARG:HD3	2	0.84
(1,1890)	1:84:A:TYR:HE2	1:113:A:ARG:HD3	2	0.84
(1,1529)	1:73:A:PRO:HA	1:91:A:LEU:HG	2	0.84
(1,751)	1:46:A:TYR:HA	1:63:A:GLN:HB2	10	0.84
(1,686)	1:41:A:GLU:HG3	1:43:A:ILE:HD11	2	0.84
(1,686)	1:41:A:GLU:HG3	1:43:A:ILE:HD12	2	0.84
(1,686)	1:41:A:GLU:HG3	1:43:A:ILE:HD13	2	0.84
(1,673)	1:41:A:GLU:HG3	1:43:A:ILE:HA	8	0.84
(1,561)	1:39:A:VAL:HG21	1:18:A:GLU:H	7	0.84
(1,561)	1:39:A:VAL:HG22	1:18:A:GLU:H	7	0.84
(1,561)	1:39:A:VAL:HG23	1:18:A:GLU:H	7	0.84
(3,995)	1:79:A:VAL:HG22	1:79:A:VAL:H	1	0.83
(3,767)	1:77:A:ILE:H	1:77:A:ILE:HD12	10	0.83
(3,635)	1:23:A:ILE:HG22	1:24:A:ILE:H	10	0.83
(3,603)	1:25:A:THR:HG23	1:23:A:ILE:HD11	8	0.83
(3,561)	1:40:A:LYS:HE3	1:40:A:LYS:HB2	1	0.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,399)	1:43:A:ILE:HG22	1:44:A:ASP:HA	2	0.83
(2,611)	1:123:A:ILE:H	1:81:A:ASN:HB3	4	0.83
(2,366)	1:107:A:THR:HB	1:88:A:GLU:HG3	4	0.83
(2,365)	1:107:A:THR:HB	1:88:A:GLU:HG3	4	0.83
(1,3780)	1:63:A:GLN:HB2	1:46:A:TYR:HD1	8	0.83
(1,3780)	1:63:A:GLN:HB2	1:46:A:TYR:HD2	8	0.83
(1,3508)	1:40:A:LYS:HE3	1:41:A:GLU:H	2	0.83
(1,2784)	1:82:A:GLY:H	1:10:A:ARG:HG2	2	0.83
(1,2719)	1:88:A:GLU:H	1:87:A:ASN:HB2	3	0.83
(1,2491)	1:110:A:LEU:HB3	1:110:A:LEU:H	2	0.83
(1,2366)	1:121:A:GLU:H	1:121:A:GLU:HB2	2	0.83
(1,2246)	1:13:A:TYR:HB3	1:45:A:LYS:HD2	8	0.83
(1,2008)	1:80:A:LEU:HB3	1:123:A:ILE:HA	10	0.83
(1,1886)	1:115:A:VAL:HG11	1:113:A:ARG:HD3	9	0.83
(1,1886)	1:115:A:VAL:HG12	1:113:A:ARG:HD3	9	0.83
(1,1886)	1:115:A:VAL:HG13	1:113:A:ARG:HD3	9	0.83
(1,1529)	1:73:A:PRO:HA	1:91:A:LEU:HG	3	0.83
(1,1521)	1:73:A:PRO:HD2	1:91:A:LEU:HD11	7	0.83
(1,1521)	1:73:A:PRO:HD2	1:91:A:LEU:HD12	7	0.83
(1,1521)	1:73:A:PRO:HD2	1:91:A:LEU:HD13	7	0.83
(1,561)	1:39:A:VAL:HG21	1:18:A:GLU:H	8	0.83
(1,561)	1:39:A:VAL:HG22	1:18:A:GLU:H	8	0.83
(1,561)	1:39:A:VAL:HG23	1:18:A:GLU:H	8	0.83
(3,995)	1:102:A:THR:HG23	1:116:A:GLU:H	6	0.82
(3,892)	1:25:A:THR:HG21	1:25:A:THR:HA	6	0.82
(3,857)	1:115:A:VAL:HG13	1:114:A:ARG:HB2	6	0.82
(3,795)	1:48:A:ALA:H	1:63:A:GLN:HA	2	0.82
(3,561)	1:40:A:LYS:HE3	1:40:A:LYS:HB2	10	0.82
(3,501)	1:49:A:VAL:HG13	1:40:A:LYS:HB3	3	0.82
(3,451)	1:121:A:GLU:H	1:118:A:ILE:HG21	7	0.82
(2,566)	1:63:A:GLN:HB2	1:46:A:TYR:H	10	0.82
(2,349)	1:118:A:ILE:HG12	1:84:A:TYR:HB3	8	0.82
(2,182)	1:91:A:LEU:HD11	1:72:A:ALA:H	10	0.82
(2,182)	1:91:A:LEU:HD12	1:72:A:ALA:H	10	0.82
(2,182)	1:91:A:LEU:HD13	1:72:A:ALA:H	10	0.82
(1,3780)	1:63:A:GLN:HB2	1:46:A:TYR:HD1	10	0.82
(1,3780)	1:63:A:GLN:HB2	1:46:A:TYR:HD2	10	0.82
(1,3615)	1:119:A:GLN:HE21	1:100:A:SER:HB2	6	0.82
(1,3418)	1:10:A:ARG:HG3	1:9:A:ALA:H	7	0.82
(1,2878)	1:75:A:LYS:HE3	1:72:A:ALA:H	1	0.82
(1,2719)	1:88:A:GLU:H	1:87:A:ASN:HB2	5	0.82
(1,2429)	1:93:A:SER:H	1:91:A:LEU:HG	6	0.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2366)	1:121:A:GLU:H	1:121:A:GLU:HB2	6	0.82
(1,2323)	1:126:A:LEU:H	1:71:A:PRO:HD2	7	0.82
(1,2251)	1:60:A:LYS:HE2	1:49:A:VAL:HA	2	0.82
(1,1892)	1:113:A:ARG:HD2	1:114:A:ARG:H	4	0.82
(1,1890)	1:84:A:TYR:HE1	1:113:A:ARG:HD3	7	0.82
(1,1890)	1:84:A:TYR:HE2	1:113:A:ARG:HD3	7	0.82
(1,1881)	1:113:A:ARG:HD2	1:114:A:ARG:H	7	0.82
(1,1177)	1:70:A:ILE:HG13	1:69:A:VAL:HA	10	0.82
(1,959)	1:60:A:LYS:HD2	1:61:A:LEU:H	8	0.82
(1,547)	1:40:A:LYS:HE2	1:38:A:ILE:HB	9	0.82
(1,201)	1:73:A:PRO:HG2	1:91:A:LEU:HD11	3	0.82
(1,201)	1:73:A:PRO:HG2	1:91:A:LEU:HD12	3	0.82
(1,201)	1:73:A:PRO:HG2	1:91:A:LEU:HD13	3	0.82
(3,995)	1:102:A:THR:HG22	1:116:A:GLU:H	8	0.81
(3,863)	1:113:A:ARG:HD3	1:103:A:ILE:HD12	10	0.81
(3,389)	1:73:A:PRO:HG3	1:91:A:LEU:HD12	4	0.81
(3,162)	1:15:A:LEU:H	1:48:A:ALA:HB2	5	0.81
(2,338)	1:126:A:LEU:HB3	1:77:A:ILE:HG12	8	0.81
(1,3652)	1:22:A:LYS:H	1:22:A:LYS:HE2	2	0.81
(1,2223)	1:119:A:GLN:H	1:100:A:SER:HB2	1	0.81
(1,2008)	1:80:A:LEU:HB3	1:123:A:ILE:HA	1	0.81
(1,1527)	1:93:A:SER:H	1:91:A:LEU:HG	5	0.81
(1,1527)	1:93:A:SER:H	1:91:A:LEU:HG	7	0.81
(1,1527)	1:93:A:SER:H	1:91:A:LEU:HG	8	0.81
(3,1172)	1:118:A:ILE:HG12	1:118:A:ILE:HG22	4	0.8
(3,1087)	1:61:A:LEU:HD11	1:59:A:LEU:HB3	7	0.8
(3,1087)	1:61:A:LEU:HD12	1:59:A:LEU:HB3	7	0.8
(3,1087)	1:61:A:LEU:HD13	1:59:A:LEU:HB3	7	0.8
(3,892)	1:25:A:THR:HG22	1:25:A:THR:HA	10	0.8
(3,603)	1:25:A:THR:HG22	1:23:A:ILE:HD11	2	0.8
(2,566)	1:63:A:GLN:HB2	1:46:A:TYR:H	3	0.8
(2,465)	1:108:A:GLY:H	1:110:A:LEU:HB3	9	0.8
(1,3599)	1:98:A:THR:HG21	1:95:A:ASN:HD22	9	0.8
(1,3599)	1:98:A:THR:HG22	1:95:A:ASN:HD22	9	0.8
(1,3599)	1:98:A:THR:HG23	1:95:A:ASN:HD22	9	0.8
(1,3590)	1:97:A:LYS:HB3	1:95:A:ASN:HD21	9	0.8
(1,3580)	1:110:A:LEU:HD21	1:87:A:ASN:HD22	10	0.8
(1,3580)	1:110:A:LEU:HD22	1:87:A:ASN:HD22	10	0.8
(1,3580)	1:110:A:LEU:HD23	1:87:A:ASN:HD22	10	0.8
(1,3346)	1:39:A:VAL:HG21	1:18:A:GLU:H	1	0.8
(1,3346)	1:39:A:VAL:HG22	1:18:A:GLU:H	1	0.8
(1,3346)	1:39:A:VAL:HG23	1:18:A:GLU:H	1	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2865)	1:75:A:LYS:H	1:71:A:PRO:HB2	10	0.8
(1,2849)	1:76:A:ARG:H	1:76:A:ARG:HG3	2	0.8
(1,2201)	1:105:A:ILE:HG21	1:84:A:TYR:HB2	3	0.8
(1,2201)	1:105:A:ILE:HG22	1:84:A:TYR:HB2	3	0.8
(1,2201)	1:105:A:ILE:HG23	1:84:A:TYR:HB2	3	0.8
(1,2096)	1:125:A:LYS:HE2	1:127:A:ALA:HA	2	0.8
(1,2008)	1:80:A:LEU:HB3	1:123:A:ILE:HA	9	0.8
(1,1927)	1:115:A:VAL:HG11	1:105:A:ILE:HG12	6	0.8
(1,1927)	1:115:A:VAL:HG12	1:105:A:ILE:HG12	6	0.8
(1,1927)	1:115:A:VAL:HG13	1:105:A:ILE:HG12	6	0.8
(1,1890)	1:84:A:TYR:HE1	1:113:A:ARG:HD3	1	0.8
(1,1890)	1:84:A:TYR:HE2	1:113:A:ARG:HD3	1	0.8
(1,1888)	1:76:A:ARG:HD2	1:90:A:THR:HG21	1	0.8
(1,1888)	1:76:A:ARG:HD2	1:90:A:THR:HG22	1	0.8
(1,1888)	1:76:A:ARG:HD2	1:90:A:THR:HG23	1	0.8
(1,1887)	1:76:A:ARG:HD3	1:126:A:LEU:HD21	1	0.8
(1,1887)	1:76:A:ARG:HD3	1:126:A:LEU:HD22	1	0.8
(1,1887)	1:76:A:ARG:HD3	1:126:A:LEU:HD23	1	0.8
(1,1881)	1:113:A:ARG:HD2	1:114:A:ARG:H	6	0.8
(1,1617)	1:98:A:THR:HG21	1:98:A:THR:HA	4	0.8
(1,1617)	1:98:A:THR:HG22	1:98:A:THR:HA	4	0.8
(1,1617)	1:98:A:THR:HG23	1:98:A:THR:HA	4	0.8
(1,1617)	1:98:A:THR:HG21	1:98:A:THR:HA	6	0.8
(1,1617)	1:98:A:THR:HG22	1:98:A:THR:HA	6	0.8
(1,1617)	1:98:A:THR:HG23	1:98:A:THR:HA	6	0.8
(1,1532)	1:93:A:SER:HA	1:73:A:PRO:HG2	7	0.8
(1,1224)	1:73:A:PRO:HA	1:91:A:LEU:HD11	10	0.8
(1,1224)	1:73:A:PRO:HA	1:91:A:LEU:HD12	10	0.8
(1,1224)	1:73:A:PRO:HA	1:91:A:LEU:HD13	10	0.8
(1,924)	1:40:A:LYS:HE2	1:38:A:ILE:H	2	0.8
(3,603)	1:25:A:THR:HG23	1:23:A:ILE:HD13	9	0.79
(3,389)	1:73:A:PRO:HG3	1:91:A:LEU:HD12	5	0.79
(3,379)	1:45:A:LYS:HA	1:46:A:TYR:HD2	9	0.79
(3,187)	1:16:A:GLN:H	1:14:A:TRP:HZ3	10	0.79
(2,566)	1:63:A:GLN:HB2	1:46:A:TYR:H	5	0.79
(2,465)	1:108:A:GLY:H	1:110:A:LEU:HB3	8	0.79
(1,3694)	1:68:A:THR:H	1:22:A:LYS:HB2	4	0.79
(1,3460)	1:78:A:LEU:HD11	1:16:A:GLN:HE22	9	0.79
(1,3460)	1:78:A:LEU:HD12	1:16:A:GLN:HE22	9	0.79
(1,3460)	1:78:A:LEU:HD13	1:16:A:GLN:HE22	9	0.79
(1,3346)	1:39:A:VAL:HG21	1:18:A:GLU:H	5	0.79
(1,3346)	1:39:A:VAL:HG22	1:18:A:GLU:H	5	0.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3346)	1:39:A:VAL:HG23	1:18:A:GLU:H	5	0.79
(1,2849)	1:76:A:ARG:H	1:76:A:ARG:HG3	1	0.79
(1,2635)	1:96:A:GLU:HB2	1:96:A:GLU:H	4	0.79
(1,2635)	1:96:A:GLU:HB2	1:96:A:GLU:H	9	0.79
(1,2323)	1:126:A:LEU:H	1:71:A:PRO:HD2	3	0.79
(1,2251)	1:60:A:LYS:HE2	1:49:A:VAL:HA	6	0.79
(1,2246)	1:13:A:TYR:HB3	1:45:A:LYS:HD2	1	0.79
(1,1881)	1:113:A:ARG:HD2	1:114:A:ARG:H	3	0.79
(1,1822)	1:110:A:LEU:H	1:109:A:PRO:HG2	3	0.79
(1,1682)	1:47:A:THR:HG21	1:43:A:ILE:HB	9	0.79
(1,1682)	1:47:A:THR:HG22	1:43:A:ILE:HB	9	0.79
(1,1682)	1:47:A:THR:HG23	1:43:A:ILE:HB	9	0.79
(1,1095)	1:73:A:PRO:HG2	1:91:A:LEU:HD11	1	0.79
(1,1095)	1:73:A:PRO:HG2	1:91:A:LEU:HD12	1	0.79
(1,1095)	1:73:A:PRO:HG2	1:91:A:LEU:HD13	1	0.79
(1,561)	1:39:A:VAL:HG21	1:18:A:GLU:H	9	0.79
(1,561)	1:39:A:VAL:HG22	1:18:A:GLU:H	9	0.79
(1,561)	1:39:A:VAL:HG23	1:18:A:GLU:H	9	0.79
(1,467)	1:30:A:GLU:HG2	1:30:A:GLU:HA	5	0.79
(1,467)	1:30:A:GLU:HG2	1:30:A:GLU:HA	7	0.79
(3,795)	1:48:A:ALA:H	1:63:A:GLN:HA	10	0.78
(3,777)	1:18:A:GLU:H	1:38:A:ILE:HG21	4	0.78
(3,699)	1:110:A:LEU:HA	1:105:A:ILE:HG21	10	0.78
(3,603)	1:25:A:THR:HG23	1:23:A:ILE:HD13	4	0.78
(3,399)	1:43:A:ILE:HG22	1:44:A:ASP:HA	8	0.78
(1,3460)	1:78:A:LEU:HD11	1:16:A:GLN:HE22	1	0.78
(1,3460)	1:78:A:LEU:HD12	1:16:A:GLN:HE22	1	0.78
(1,3460)	1:78:A:LEU:HD13	1:16:A:GLN:HE22	1	0.78
(1,3011)	1:58:A:LYS:H	1:57:A:ASP:HB3	5	0.78
(1,2719)	1:88:A:GLU:H	1:87:A:ASN:HB2	6	0.78
(1,2719)	1:88:A:GLU:H	1:87:A:ASN:HB2	8	0.78
(1,2635)	1:96:A:GLU:HB2	1:96:A:GLU:H	3	0.78
(1,2635)	1:96:A:GLU:HB2	1:96:A:GLU:H	5	0.78
(1,2554)	1:91:A:LEU:HD21	1:102:A:THR:H	10	0.78
(1,2554)	1:91:A:LEU:HD22	1:102:A:THR:H	10	0.78
(1,2554)	1:91:A:LEU:HD23	1:102:A:THR:H	10	0.78
(1,2467)	1:113:A:ARG:H	1:105:A:ILE:HG13	6	0.78
(1,2434)	1:116:A:GLU:H	1:116:A:GLU:HG2	10	0.78
(1,1933)	1:115:A:VAL:HG21	1:116:A:GLU:HA	10	0.78
(1,1933)	1:115:A:VAL:HG22	1:116:A:GLU:HA	10	0.78
(1,1933)	1:115:A:VAL:HG23	1:116:A:GLU:HA	10	0.78
(1,1873)	1:113:A:ARG:HB2	1:115:A:VAL:HG11	3	0.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1873)	1:113:A:ARG:HB2	1:115:A:VAL:HG12	3	0.78
(1,1873)	1:113:A:ARG:HB2	1:115:A:VAL:HG13	3	0.78
(1,1197)	1:75:A:LYS:HE3	1:71:A:PRO:HB2	2	0.78
(1,1177)	1:70:A:ILE:HG13	1:69:A:VAL:HA	6	0.78
(1,959)	1:60:A:LYS:HD2	1:61:A:LEU:H	6	0.78
(1,856)	1:38:A:ILE:H	1:53:A:ILE:HD11	8	0.78
(1,856)	1:38:A:ILE:H	1:53:A:ILE:HD12	8	0.78
(1,856)	1:38:A:ILE:H	1:53:A:ILE:HD13	8	0.78
(1,836)	1:52:A:MET:HG2	1:32:A:TYR:HE1	7	0.78
(1,836)	1:52:A:MET:HG2	1:32:A:TYR:HE2	7	0.78
(1,467)	1:30:A:GLU:HG2	1:30:A:GLU:HA	8	0.78
(3,1164)	1:28:A:LEU:HD22	1:29:A:GLY:H	2	0.77
(3,1164)	1:28:A:LEU:HD22	1:29:A:GLY:H	10	0.77
(3,857)	1:115:A:VAL:HG13	1:114:A:ARG:HB2	4	0.77
(3,777)	1:18:A:GLU:H	1:38:A:ILE:HG22	7	0.77
(3,560)	1:31:A:LYS:HG3	1:33:A:HIS:H	5	0.77
(3,401)	1:15:A:LEU:HD23	1:80:A:LEU:HD12	7	0.77
(3,241)	1:17:A:PRO:HD3	1:16:A:GLN:HE22	4	0.77
(3,129)	1:77:A:ILE:HG21	1:123:A:ILE:HB	3	0.77
(1,3728)	1:97:A:LYS:H	1:95:A:ASN:HD21	3	0.77
(1,3418)	1:10:A:ARG:HG3	1:9:A:ALA:H	1	0.77
(1,3113)	1:44:A:ASP:HB2	1:46:A:TYR:H	2	0.77
(1,2849)	1:76:A:ARG:H	1:76:A:ARG:HG3	9	0.77
(1,2635)	1:96:A:GLU:HB2	1:96:A:GLU:H	7	0.77
(1,2635)	1:96:A:GLU:HB2	1:96:A:GLU:H	8	0.77
(1,2635)	1:96:A:GLU:HB2	1:96:A:GLU:H	10	0.77
(1,2333)	1:125:A:LYS:H	1:71:A:PRO:HD2	1	0.77
(1,2323)	1:126:A:LEU:H	1:71:A:PRO:HD2	2	0.77
(1,2165)	1:104:A:VAL:HG11	1:114:A:ARG:HA	1	0.77
(1,2165)	1:104:A:VAL:HG12	1:114:A:ARG:HA	1	0.77
(1,2165)	1:104:A:VAL:HG13	1:114:A:ARG:HA	1	0.77
(1,1892)	1:113:A:ARG:HD2	1:114:A:ARG:H	1	0.77
(1,1529)	1:73:A:PRO:HA	1:91:A:LEU:HG	4	0.77
(1,1529)	1:73:A:PRO:HA	1:91:A:LEU:HG	5	0.77
(1,1285)	1:76:A:ARG:HG2	1:126:A:LEU:HD21	5	0.77
(1,1285)	1:76:A:ARG:HG2	1:126:A:LEU:HD22	5	0.77
(1,1285)	1:76:A:ARG:HG2	1:126:A:LEU:HD23	5	0.77
(1,1285)	1:76:A:ARG:HG2	1:126:A:LEU:HD21	7	0.77
(1,1285)	1:76:A:ARG:HG2	1:126:A:LEU:HD22	7	0.77
(1,1285)	1:76:A:ARG:HG2	1:126:A:LEU:HD23	7	0.77
(1,1285)	1:76:A:ARG:HG2	1:126:A:LEU:HD21	10	0.77
(1,1285)	1:76:A:ARG:HG2	1:126:A:LEU:HD22	10	0.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1285)	1:76:A:ARG:HG2	1:126:A:LEU:HD23	10	0.77
(1,836)	1:52:A:MET:HG2	1:32:A:TYR:HE1	2	0.77
(1,836)	1:52:A:MET:HG2	1:32:A:TYR:HE2	2	0.77
(1,836)	1:52:A:MET:HG2	1:32:A:TYR:HE1	9	0.77
(1,836)	1:52:A:MET:HG2	1:32:A:TYR:HE2	9	0.77
(1,467)	1:30:A:GLU:HG2	1:30:A:GLU:HA	9	0.77
(1,456)	1:61:A:LEU:HD21	1:59:A:LEU:HD11	5	0.77
(1,456)	1:61:A:LEU:HD21	1:59:A:LEU:HD12	5	0.77
(1,456)	1:61:A:LEU:HD21	1:59:A:LEU:HD13	5	0.77
(1,456)	1:61:A:LEU:HD22	1:59:A:LEU:HD11	5	0.77
(1,456)	1:61:A:LEU:HD22	1:59:A:LEU:HD12	5	0.77
(1,456)	1:61:A:LEU:HD22	1:59:A:LEU:HD13	5	0.77
(1,456)	1:61:A:LEU:HD23	1:59:A:LEU:HD11	5	0.77
(1,456)	1:61:A:LEU:HD23	1:59:A:LEU:HD12	5	0.77
(1,456)	1:61:A:LEU:HD23	1:59:A:LEU:HD13	5	0.77
(3,211)	1:118:A:ILE:H	1:116:A:GLU:HB3	6	0.76
(3,177)	1:40:A:LYS:HE3	1:40:A:LYS:HA	4	0.76
(3,162)	1:15:A:LEU:H	1:48:A:ALA:HB2	2	0.76
(2,398)	1:13:A:TYR:HB3	1:15:A:LEU:HD21	5	0.76
(2,398)	1:13:A:TYR:HB3	1:15:A:LEU:HD22	5	0.76
(2,398)	1:13:A:TYR:HB3	1:15:A:LEU:HD23	5	0.76
(2,386)	1:95:A:ASN:HB2	1:99:A:PHE:HA	4	0.76
(2,362)	1:84:A:TYR:HB3	1:103:A:ILE:HG13	9	0.76
(1,2849)	1:76:A:ARG:H	1:76:A:ARG:HG3	7	0.76
(1,2251)	1:60:A:LYS:HE2	1:49:A:VAL:HA	10	0.76
(1,1933)	1:115:A:VAL:HG21	1:116:A:GLU:HA	4	0.76
(1,1933)	1:115:A:VAL:HG22	1:116:A:GLU:HA	4	0.76
(1,1933)	1:115:A:VAL:HG23	1:116:A:GLU:HA	4	0.76
(1,1881)	1:113:A:ARG:HD2	1:114:A:ARG:H	9	0.76
(1,1370)	1:122:A:ASP:HA	1:80:A:LEU:HB3	6	0.76
(1,633)	1:41:A:GLU:HG3	1:43:A:ILE:HD11	7	0.76
(1,633)	1:41:A:GLU:HG3	1:43:A:ILE:HD12	7	0.76
(1,633)	1:41:A:GLU:HG3	1:43:A:ILE:HD13	7	0.76
(3,1076)	1:97:A:LYS:H	1:97:A:LYS:HD3	2	0.75
(3,401)	1:15:A:LEU:HD22	1:80:A:LEU:HD11	4	0.75
(3,162)	1:15:A:LEU:H	1:48:A:ALA:HB2	1	0.75
(1,3446)	1:68:A:THR:HG21	1:14:A:TRP:HE1	10	0.75
(1,3446)	1:68:A:THR:HG22	1:14:A:TRP:HE1	10	0.75
(1,3446)	1:68:A:THR:HG23	1:14:A:TRP:HE1	10	0.75
(1,3418)	1:10:A:ARG:HG3	1:9:A:ALA:H	5	0.75
(1,3061)	1:52:A:MET:H	1:52:A:MET:HG2	5	0.75
(1,1933)	1:115:A:VAL:HG21	1:116:A:GLU:HA	9	0.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1933)	1:115:A:VAL:HG22	1:116:A:GLU:HA	9	0.75
(1,1933)	1:115:A:VAL:HG23	1:116:A:GLU:HA	9	0.75
(1,1890)	1:84:A:TYR:HE1	1:113:A:ARG:HD3	3	0.75
(1,1890)	1:84:A:TYR:HE2	1:113:A:ARG:HD3	3	0.75
(1,1888)	1:76:A:ARG:HD2	1:90:A:THR:HG21	10	0.75
(1,1888)	1:76:A:ARG:HD2	1:90:A:THR:HG22	10	0.75
(1,1888)	1:76:A:ARG:HD2	1:90:A:THR:HG23	10	0.75
(1,1887)	1:76:A:ARG:HD3	1:126:A:LEU:HD21	6	0.75
(1,1887)	1:76:A:ARG:HD3	1:126:A:LEU:HD22	6	0.75
(1,1887)	1:76:A:ARG:HD3	1:126:A:LEU:HD23	6	0.75
(1,1886)	1:115:A:VAL:HG11	1:113:A:ARG:HD3	4	0.75
(1,1886)	1:115:A:VAL:HG12	1:113:A:ARG:HD3	4	0.75
(1,1886)	1:115:A:VAL:HG13	1:113:A:ARG:HD3	4	0.75
(1,1768)	1:105:A:ILE:HG12	1:105:A:ILE:HG21	2	0.75
(1,1768)	1:105:A:ILE:HG12	1:105:A:ILE:HG22	2	0.75
(1,1768)	1:105:A:ILE:HG12	1:105:A:ILE:HG23	2	0.75
(1,1768)	1:105:A:ILE:HG12	1:105:A:ILE:HG21	6	0.75
(1,1768)	1:105:A:ILE:HG12	1:105:A:ILE:HG22	6	0.75
(1,1768)	1:105:A:ILE:HG12	1:105:A:ILE:HG23	6	0.75
(1,1768)	1:105:A:ILE:HG12	1:105:A:ILE:HG21	9	0.75
(1,1768)	1:105:A:ILE:HG12	1:105:A:ILE:HG22	9	0.75
(1,1768)	1:105:A:ILE:HG12	1:105:A:ILE:HG23	9	0.75
(1,1527)	1:93:A:SER:H	1:91:A:LEU:HG	9	0.75
(1,1197)	1:75:A:LYS:HE3	1:71:A:PRO:HB2	10	0.75
(1,1177)	1:70:A:ILE:HG13	1:69:A:VAL:HA	3	0.75
(1,1177)	1:70:A:ILE:HG13	1:69:A:VAL:HA	7	0.75
(1,1177)	1:70:A:ILE:HG13	1:69:A:VAL:HA	9	0.75
(1,1095)	1:73:A:PRO:HG2	1:91:A:LEU:HD11	7	0.75
(1,1095)	1:73:A:PRO:HG2	1:91:A:LEU:HD12	7	0.75
(1,1095)	1:73:A:PRO:HG2	1:91:A:LEU:HD13	7	0.75
(1,959)	1:60:A:LYS:HD2	1:61:A:LEU:H	3	0.75
(1,588)	1:53:A:ILE:HA	1:38:A:ILE:HG12	5	0.75
(1,456)	1:61:A:LEU:HD21	1:59:A:LEU:HD11	6	0.75
(1,456)	1:61:A:LEU:HD21	1:59:A:LEU:HD12	6	0.75
(1,456)	1:61:A:LEU:HD21	1:59:A:LEU:HD13	6	0.75
(1,456)	1:61:A:LEU:HD22	1:59:A:LEU:HD11	6	0.75
(1,456)	1:61:A:LEU:HD22	1:59:A:LEU:HD12	6	0.75
(1,456)	1:61:A:LEU:HD22	1:59:A:LEU:HD13	6	0.75
(1,456)	1:61:A:LEU:HD23	1:59:A:LEU:HD11	6	0.75
(1,456)	1:61:A:LEU:HD23	1:59:A:LEU:HD12	6	0.75
(1,456)	1:61:A:LEU:HD23	1:59:A:LEU:HD13	6	0.75
(1,290)	1:20:A:ILE:HG13	1:127:A:ALA:HA	7	0.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1155)	1:118:A:ILE:HG21	1:119:A:GLN:H	2	0.74
(3,850)	1:15:A:LEU:HD12	1:14:A:TRP:HH2	8	0.74
(3,795)	1:52:A:MET:H	1:56:A:GLY:HA3	3	0.74
(3,795)	1:48:A:ALA:H	1:63:A:GLN:HA	5	0.74
(3,777)	1:18:A:GLU:H	1:38:A:ILE:HG23	6	0.74
(3,699)	1:110:A:LEU:HA	1:105:A:ILE:HG22	2	0.74
(3,561)	1:40:A:LYS:HE3	1:40:A:LYS:HB2	6	0.74
(3,451)	1:121:A:GLU:H	1:118:A:ILE:HG23	1	0.74
(3,379)	1:45:A:LYS:HA	1:13:A:TYR:HD1	4	0.74
(1,3414)	1:4:A:GLU:H	1:3:A:GLU:H	8	0.74
(1,3331)	1:20:A:ILE:H	1:124:A:SER:HB3	6	0.74
(1,3011)	1:58:A:LYS:H	1:57:A:ASP:HB3	6	0.74
(1,2773)	1:10:A:ARG:HG2	1:83:A:GLY:H	4	0.74
(1,2734)	1:87:A:ASN:H	1:87:A:ASN:HB3	6	0.74
(1,2697)	1:106:A:GLU:HG2	1:90:A:THR:H	3	0.74
(1,2365)	1:121:A:GLU:H	1:121:A:GLU:HG2	3	0.74
(1,2055)	1:69:A:VAL:H	1:124:A:SER:HB2	3	0.74
(1,1933)	1:115:A:VAL:HG21	1:116:A:GLU:HA	8	0.74
(1,1933)	1:115:A:VAL:HG22	1:116:A:GLU:HA	8	0.74
(1,1933)	1:115:A:VAL:HG23	1:116:A:GLU:HA	8	0.74
(1,1768)	1:105:A:ILE:HG12	1:105:A:ILE:HG21	1	0.74
(1,1768)	1:105:A:ILE:HG12	1:105:A:ILE:HG22	1	0.74
(1,1768)	1:105:A:ILE:HG12	1:105:A:ILE:HG23	1	0.74
(1,1768)	1:105:A:ILE:HG12	1:105:A:ILE:HG21	3	0.74
(1,1768)	1:105:A:ILE:HG12	1:105:A:ILE:HG22	3	0.74
(1,1768)	1:105:A:ILE:HG12	1:105:A:ILE:HG23	3	0.74
(1,1768)	1:105:A:ILE:HG12	1:105:A:ILE:HG21	4	0.74
(1,1768)	1:105:A:ILE:HG12	1:105:A:ILE:HG22	4	0.74
(1,1768)	1:105:A:ILE:HG12	1:105:A:ILE:HG23	4	0.74
(1,1768)	1:105:A:ILE:HG12	1:105:A:ILE:HG21	5	0.74
(1,1768)	1:105:A:ILE:HG12	1:105:A:ILE:HG22	5	0.74
(1,1768)	1:105:A:ILE:HG12	1:105:A:ILE:HG23	5	0.74
(1,1768)	1:105:A:ILE:HG12	1:105:A:ILE:HG21	7	0.74
(1,1768)	1:105:A:ILE:HG12	1:105:A:ILE:HG22	7	0.74
(1,1768)	1:105:A:ILE:HG12	1:105:A:ILE:HG23	7	0.74
(1,1768)	1:105:A:ILE:HG12	1:105:A:ILE:HG21	8	0.74
(1,1768)	1:105:A:ILE:HG12	1:105:A:ILE:HG22	8	0.74
(1,1768)	1:105:A:ILE:HG12	1:105:A:ILE:HG23	8	0.74
(1,1768)	1:105:A:ILE:HG12	1:105:A:ILE:HG21	10	0.74
(1,1768)	1:105:A:ILE:HG12	1:105:A:ILE:HG22	10	0.74
(1,1768)	1:105:A:ILE:HG12	1:105:A:ILE:HG23	10	0.74
(1,1729)	1:106:A:GLU:HG2	1:105:A:ILE:HA	6	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1532)	1:93:A:SER:HA	1:73:A:PRO:HG2	1	0.74
(1,1521)	1:73:A:PRO:HD2	1:91:A:LEU:HD11	1	0.74
(1,1521)	1:73:A:PRO:HD2	1:91:A:LEU:HD12	1	0.74
(1,1521)	1:73:A:PRO:HD2	1:91:A:LEU:HD13	1	0.74
(1,1177)	1:70:A:ILE:HG13	1:69:A:VAL:HA	5	0.74
(1,836)	1:52:A:MET:HG2	1:32:A:TYR:HE1	6	0.74
(1,836)	1:52:A:MET:HG2	1:32:A:TYR:HE2	6	0.74
(1,456)	1:61:A:LEU:HD21	1:59:A:LEU:HD11	4	0.74
(1,456)	1:61:A:LEU:HD21	1:59:A:LEU:HD12	4	0.74
(1,456)	1:61:A:LEU:HD21	1:59:A:LEU:HD13	4	0.74
(1,456)	1:61:A:LEU:HD22	1:59:A:LEU:HD11	4	0.74
(1,456)	1:61:A:LEU:HD22	1:59:A:LEU:HD12	4	0.74
(1,456)	1:61:A:LEU:HD22	1:59:A:LEU:HD13	4	0.74
(1,456)	1:61:A:LEU:HD23	1:59:A:LEU:HD11	4	0.74
(1,456)	1:61:A:LEU:HD23	1:59:A:LEU:HD12	4	0.74
(1,456)	1:61:A:LEU:HD23	1:59:A:LEU:HD13	4	0.74
(1,231)	1:121:A:GLU:H	1:121:A:GLU:HG2	3	0.74
(3,1172)	1:118:A:ILE:HG12	1:103:A:ILE:HG13	9	0.73
(3,863)	1:113:A:ARG:HD3	1:103:A:ILE:HD13	8	0.73
(3,850)	1:15:A:LEU:HD12	1:14:A:TRP:HH2	2	0.73
(3,777)	1:18:A:GLU:H	1:38:A:ILE:HG21	8	0.73
(3,451)	1:121:A:GLU:H	1:118:A:ILE:HG23	5	0.73
(3,399)	1:43:A:ILE:HG23	1:44:A:ASP:HA	7	0.73
(3,389)	1:73:A:PRO:HG3	1:91:A:LEU:HD12	9	0.73
(2,465)	1:108:A:GLY:H	1:110:A:LEU:HB3	2	0.73
(1,3652)	1:22:A:LYS:H	1:22:A:LYS:HE2	6	0.73
(1,3414)	1:4:A:GLU:H	1:3:A:GLU:H	1	0.73
(1,2848)	1:76:A:ARG:H	1:76:A:ARG:HD2	10	0.73
(1,2781)	1:85:A:ARG:HD2	1:82:A:GLY:H	7	0.73
(1,2636)	1:96:A:GLU:H	1:97:A:LYS:HD3	10	0.73
(1,2470)	1:113:A:ARG:H	1:115:A:VAL:HG11	10	0.73
(1,2470)	1:113:A:ARG:H	1:115:A:VAL:HG12	10	0.73
(1,2470)	1:113:A:ARG:H	1:115:A:VAL:HG13	10	0.73
(1,1892)	1:113:A:ARG:HD2	1:114:A:ARG:H	8	0.73
(1,1869)	1:119:A:GLN:HA	1:100:A:SER:HB2	1	0.73
(1,1869)	1:119:A:GLN:HA	1:100:A:SER:HB2	4	0.73
(1,1869)	1:119:A:GLN:HA	1:100:A:SER:HB2	6	0.73
(1,1869)	1:119:A:GLN:HA	1:100:A:SER:HB2	7	0.73
(1,1520)	1:91:A:LEU:HD11	1:71:A:PRO:HD3	1	0.73
(1,1520)	1:91:A:LEU:HD12	1:71:A:PRO:HD3	1	0.73
(1,1520)	1:91:A:LEU:HD13	1:71:A:PRO:HD3	1	0.73
(1,1520)	1:91:A:LEU:HD11	1:71:A:PRO:HD3	7	0.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1520)	1:91:A:LEU:HD12	1:71:A:PRO:HD3	7	0.73
(1,1520)	1:91:A:LEU:HD13	1:71:A:PRO:HD3	7	0.73
(1,1183)	1:71:A:PRO:HD3	1:70:A:ILE:HG21	7	0.73
(1,1183)	1:71:A:PRO:HD3	1:70:A:ILE:HG22	7	0.73
(1,1183)	1:71:A:PRO:HD3	1:70:A:ILE:HG23	7	0.73
(3,1172)	1:118:A:ILE:HG12	1:103:A:ILE:HG13	8	0.72
(3,1042)	1:19:A:ILE:HA	1:127:A:ALA:HA	2	0.72
(3,850)	1:15:A:LEU:HD11	1:14:A:TRP:HH2	1	0.72
(3,561)	1:40:A:LYS:HE3	1:40:A:LYS:HB2	9	0.72
(3,560)	1:34:A:LYS:HG3	1:33:A:HIS:H	1	0.72
(3,366)	1:16:A:GLN:HG2	1:39:A:VAL:HG12	5	0.72
(1,3061)	1:52:A:MET:H	1:52:A:MET:HG2	6	0.72
(1,2773)	1:10:A:ARG:HG2	1:83:A:GLY:H	8	0.72
(1,2710)	1:77:A:ILE:HG12	1:89:A:GLY:H	10	0.72
(1,2434)	1:116:A:GLU:H	1:116:A:GLU:HG2	2	0.72
(1,2333)	1:125:A:LYS:H	1:71:A:PRO:HD2	5	0.72
(1,2223)	1:119:A:GLN:H	1:100:A:SER:HB2	8	0.72
(1,1869)	1:119:A:GLN:HA	1:100:A:SER:HB2	5	0.72
(1,1869)	1:119:A:GLN:HA	1:100:A:SER:HB2	10	0.72
(1,1370)	1:122:A:ASP:HA	1:80:A:LEU:HB3	2	0.72
(1,1273)	1:76:A:ARG:HG3	1:76:A:ARG:HA	7	0.72
(1,1200)	1:71:A:PRO:HD3	1:70:A:ILE:HG21	10	0.72
(1,1200)	1:71:A:PRO:HD3	1:70:A:ILE:HG22	10	0.72
(1,1200)	1:71:A:PRO:HD3	1:70:A:ILE:HG23	10	0.72
(1,1177)	1:70:A:ILE:HG13	1:69:A:VAL:HA	2	0.72
(1,751)	1:46:A:TYR:HA	1:63:A:GLN:HB2	4	0.72
(1,685)	1:60:A:LYS:HE3	1:43:A:ILE:HD11	4	0.72
(1,685)	1:60:A:LYS:HE3	1:43:A:ILE:HD12	4	0.72
(1,685)	1:60:A:LYS:HE3	1:43:A:ILE:HD13	4	0.72
(1,577)	1:15:A:LEU:HD21	1:39:A:VAL:HG11	2	0.72
(1,577)	1:15:A:LEU:HD21	1:39:A:VAL:HG12	2	0.72
(1,577)	1:15:A:LEU:HD21	1:39:A:VAL:HG13	2	0.72
(1,577)	1:15:A:LEU:HD22	1:39:A:VAL:HG11	2	0.72
(1,577)	1:15:A:LEU:HD22	1:39:A:VAL:HG12	2	0.72
(1,577)	1:15:A:LEU:HD22	1:39:A:VAL:HG13	2	0.72
(1,577)	1:15:A:LEU:HD23	1:39:A:VAL:HG11	2	0.72
(1,577)	1:15:A:LEU:HD23	1:39:A:VAL:HG12	2	0.72
(1,577)	1:15:A:LEU:HD23	1:39:A:VAL:HG13	2	0.72
(3,501)	1:49:A:VAL:HG11	1:40:A:LYS:HB3	1	0.71
(3,399)	1:43:A:ILE:HG21	1:44:A:ASP:HA	5	0.71
(3,354)	1:115:A:VAL:H	1:114:A:ARG:HG3	6	0.71
(1,3520)	1:52:A:MET:HG2	1:59:A:LEU:H	3	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2346)	1:124:A:SER:H	1:78:A:LEU:HB2	6	0.71
(1,2251)	1:60:A:LYS:HE2	1:49:A:VAL:HA	4	0.71
(1,2251)	1:60:A:LYS:HE2	1:49:A:VAL:HA	5	0.71
(1,1869)	1:119:A:GLN:HA	1:100:A:SER:HB2	8	0.71
(1,1529)	1:73:A:PRO:HA	1:91:A:LEU:HG	8	0.71
(1,1529)	1:73:A:PRO:HA	1:91:A:LEU:HG	9	0.71
(1,1520)	1:91:A:LEU:HD11	1:71:A:PRO:HD3	5	0.71
(1,1520)	1:91:A:LEU:HD12	1:71:A:PRO:HD3	5	0.71
(1,1520)	1:91:A:LEU:HD13	1:71:A:PRO:HD3	5	0.71
(1,751)	1:46:A:TYR:HA	1:63:A:GLN:HB2	7	0.71
(1,685)	1:60:A:LYS:HE3	1:43:A:ILE:HD11	8	0.71
(1,685)	1:60:A:LYS:HE3	1:43:A:ILE:HD12	8	0.71
(1,685)	1:60:A:LYS:HE3	1:43:A:ILE:HD13	8	0.71
(3,1139)	1:45:A:LYS:HA	1:45:A:LYS:HD3	9	0.7
(3,1137)	1:113:A:ARG:HD2	1:114:A:ARG:HA	4	0.7
(3,722)	1:45:A:LYS:H	1:44:A:ASP:HB2	5	0.7
(3,699)	1:110:A:LEU:HA	1:105:A:ILE:HG21	8	0.7
(3,162)	1:15:A:LEU:H	1:19:A:ILE:HD11	7	0.7
(1,3780)	1:63:A:GLN:HB2	1:46:A:TYR:HD1	4	0.7
(1,3780)	1:63:A:GLN:HB2	1:46:A:TYR:HD2	4	0.7
(1,3501)	1:40:A:LYS:HE3	1:38:A:ILE:H	5	0.7
(1,3346)	1:39:A:VAL:HG21	1:18:A:GLU:H	2	0.7
(1,3346)	1:39:A:VAL:HG22	1:18:A:GLU:H	2	0.7
(1,3346)	1:39:A:VAL:HG23	1:18:A:GLU:H	2	0.7
(1,3331)	1:20:A:ILE:H	1:124:A:SER:HB3	10	0.7
(1,3063)	1:52:A:MET:H	1:32:A:TYR:HE1	8	0.7
(1,3063)	1:52:A:MET:H	1:32:A:TYR:HE2	8	0.7
(1,2848)	1:76:A:ARG:H	1:76:A:ARG:HD2	1	0.7
(1,2816)	1:85:A:ARG:HA	1:79:A:VAL:H	9	0.7
(1,2734)	1:87:A:ASN:H	1:87:A:ASN:HB3	8	0.7
(1,2323)	1:126:A:LEU:H	1:71:A:PRO:HD2	5	0.7
(1,2008)	1:80:A:LEU:HB3	1:123:A:ILE:HA	4	0.7
(1,1933)	1:115:A:VAL:HG21	1:116:A:GLU:HA	6	0.7
(1,1933)	1:115:A:VAL:HG22	1:116:A:GLU:HA	6	0.7
(1,1933)	1:115:A:VAL:HG23	1:116:A:GLU:HA	6	0.7
(1,1822)	1:110:A:LEU:H	1:109:A:PRO:HG2	9	0.7
(1,1274)	1:77:A:ILE:HG12	1:76:A:ARG:HA	6	0.7
(1,1273)	1:76:A:ARG:HG3	1:76:A:ARG:HA	9	0.7
(1,1265)	1:76:A:ARG:H	1:76:A:ARG:HG3	5	0.7
(1,940)	1:61:A:LEU:HG	1:59:A:LEU:HD11	7	0.7
(1,940)	1:61:A:LEU:HG	1:59:A:LEU:HD12	7	0.7
(1,940)	1:61:A:LEU:HG	1:59:A:LEU:HD13	7	0.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,685)	1:60:A:LYS:HE3	1:43:A:ILE:HD11	9	0.7
(1,685)	1:60:A:LYS:HE3	1:43:A:ILE:HD12	9	0.7
(1,685)	1:60:A:LYS:HE3	1:43:A:ILE:HD13	9	0.7
(3,1140)	1:45:A:LYS:H	1:45:A:LYS:HD2	2	0.69
(3,1139)	1:45:A:LYS:HA	1:45:A:LYS:HD3	4	0.69
(3,995)	1:102:A:THR:HG22	1:116:A:GLU:H	5	0.69
(3,995)	1:102:A:THR:HG21	1:116:A:GLU:H	9	0.69
(3,795)	1:52:A:MET:H	1:56:A:GLY:HA3	4	0.69
(3,722)	1:45:A:LYS:H	1:44:A:ASP:HB2	6	0.69
(3,722)	1:45:A:LYS:H	1:44:A:ASP:HB2	10	0.69
(3,699)	1:110:A:LEU:HA	1:105:A:ILE:HG21	1	0.69
(3,699)	1:110:A:LEU:HA	1:105:A:ILE:HG21	4	0.69
(3,304)	1:94:A:ILE:HB	1:70:A:ILE:HG22	9	0.69
(3,162)	1:15:A:LEU:H	1:48:A:ALA:HB2	4	0.69
(3,162)	1:15:A:LEU:H	1:19:A:ILE:HD11	9	0.69
(3,148)	1:73:A:PRO:HG2	1:93:A:SER:HB3	1	0.69
(2,398)	1:13:A:TYR:HB3	1:15:A:LEU:HD21	1	0.69
(2,398)	1:13:A:TYR:HB3	1:15:A:LEU:HD22	1	0.69
(2,398)	1:13:A:TYR:HB3	1:15:A:LEU:HD23	1	0.69
(2,46)	1:22:A:LYS:HE2	1:24:A:ILE:HA	3	0.69
(1,3697)	1:68:A:THR:H	1:14:A:TRP:HE1	2	0.69
(1,3508)	1:40:A:LYS:HE3	1:41:A:GLU:H	3	0.69
(1,3368)	1:15:A:LEU:H	1:13:A:TYR:HB3	8	0.69
(1,3346)	1:39:A:VAL:HG21	1:18:A:GLU:H	3	0.69
(1,3346)	1:39:A:VAL:HG22	1:18:A:GLU:H	3	0.69
(1,3346)	1:39:A:VAL:HG23	1:18:A:GLU:H	3	0.69
(1,2734)	1:87:A:ASN:H	1:87:A:ASN:HB3	3	0.69
(1,2434)	1:116:A:GLU:H	1:116:A:GLU:HG2	1	0.69
(1,2357)	1:122:A:ASP:H	1:121:A:GLU:HG3	3	0.69
(1,2333)	1:125:A:LYS:H	1:71:A:PRO:HD2	3	0.69
(1,2294)	1:19:A:ILE:HD11	1:16:A:GLN:HB2	5	0.69
(1,2294)	1:19:A:ILE:HD12	1:16:A:GLN:HB2	5	0.69
(1,2294)	1:19:A:ILE:HD13	1:16:A:GLN:HB2	5	0.69
(1,2287)	1:20:A:ILE:HA	1:38:A:ILE:HG13	7	0.69
(1,2287)	1:20:A:ILE:HA	1:38:A:ILE:HG13	9	0.69
(1,1954)	1:118:A:ILE:HD11	1:118:A:ILE:HA	6	0.69
(1,1954)	1:118:A:ILE:HD12	1:118:A:ILE:HA	6	0.69
(1,1954)	1:118:A:ILE:HD13	1:118:A:ILE:HA	6	0.69
(1,1529)	1:73:A:PRO:HA	1:91:A:LEU:HG	1	0.69
(1,1285)	1:76:A:ARG:HG2	1:126:A:LEU:HD21	1	0.69
(1,1285)	1:76:A:ARG:HG2	1:126:A:LEU:HD22	1	0.69
(1,1285)	1:76:A:ARG:HG2	1:126:A:LEU:HD23	1	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1285)	1:76:A:ARG:HG2	1:126:A:LEU:HD21	3	0.69
(1,1285)	1:76:A:ARG:HG2	1:126:A:LEU:HD22	3	0.69
(1,1285)	1:76:A:ARG:HG2	1:126:A:LEU:HD23	3	0.69
(1,1273)	1:76:A:ARG:HG3	1:76:A:ARG:HA	1	0.69
(1,1273)	1:76:A:ARG:HG3	1:76:A:ARG:HA	2	0.69
(1,1177)	1:70:A:ILE:HG13	1:69:A:VAL:HA	1	0.69
(1,896)	1:51:A:LYS:HE2	1:56:A:GLY:HA2	5	0.69
(1,836)	1:52:A:MET:HG2	1:32:A:TYR:HE1	8	0.69
(1,836)	1:52:A:MET:HG2	1:32:A:TYR:HE2	8	0.69
(1,169)	1:80:A:LEU:HD21	1:16:A:GLN:HG3	2	0.69
(1,169)	1:80:A:LEU:HD22	1:16:A:GLN:HG3	2	0.69
(1,169)	1:80:A:LEU:HD23	1:16:A:GLN:HG3	2	0.69
(1,42)	1:8:A:THR:HA	1:9:A:ALA:H	7	0.69
(3,1097)	1:82:A:GLY:H	1:11:A:THR:HG22	6	0.68
(3,1036)	1:21:A:VAL:HG12	1:22:A:LYS:H	6	0.68
(3,795)	1:48:A:ALA:H	1:63:A:GLN:HA	7	0.68
(3,777)	1:18:A:GLU:H	1:38:A:ILE:HG23	1	0.68
(3,699)	1:110:A:LEU:HA	1:105:A:ILE:HG23	7	0.68
(3,603)	1:25:A:THR:HG22	1:23:A:ILE:HD13	6	0.68
(3,501)	1:49:A:VAL:HG12	1:40:A:LYS:HB3	9	0.68
(3,401)	1:15:A:LEU:HD23	1:80:A:LEU:HD12	10	0.68
(3,399)	1:43:A:ILE:HG23	1:44:A:ASP:HA	6	0.68
(1,3840)	1:46:A:TYR:HE1	1:13:A:TYR:HB2	8	0.68
(1,3840)	1:46:A:TYR:HE2	1:13:A:TYR:HB2	8	0.68
(1,3615)	1:119:A:GLN:HE21	1:100:A:SER:HB2	8	0.68
(1,3511)	1:43:A:ILE:H	1:41:A:GLU:HG3	5	0.68
(1,2217)	1:10:A:ARG:HB2	1:11:A:THR:HG21	4	0.68
(1,2217)	1:10:A:ARG:HB2	1:11:A:THR:HG22	4	0.68
(1,2217)	1:10:A:ARG:HB2	1:11:A:THR:HG23	4	0.68
(1,1274)	1:77:A:ILE:HG12	1:76:A:ARG:HA	8	0.68
(1,751)	1:46:A:TYR:HA	1:63:A:GLN:HB2	1	0.68
(1,685)	1:60:A:LYS:HE3	1:43:A:ILE:HD11	2	0.68
(1,685)	1:60:A:LYS:HE3	1:43:A:ILE:HD12	2	0.68
(1,685)	1:60:A:LYS:HE3	1:43:A:ILE:HD13	2	0.68
(1,685)	1:60:A:LYS:HE3	1:43:A:ILE:HD11	6	0.68
(1,685)	1:60:A:LYS:HE3	1:43:A:ILE:HD12	6	0.68
(1,685)	1:60:A:LYS:HE3	1:43:A:ILE:HD13	6	0.68
(1,685)	1:60:A:LYS:HE3	1:43:A:ILE:HD11	7	0.68
(1,685)	1:60:A:LYS:HE3	1:43:A:ILE:HD12	7	0.68
(1,685)	1:60:A:LYS:HE3	1:43:A:ILE:HD13	7	0.68
(3,1036)	1:21:A:VAL:HG11	1:22:A:LYS:H	7	0.67
(3,850)	1:15:A:LEU:HD12	1:14:A:TRP:HH2	4	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,814)	1:24:A:ILE:HD11	1:65:A:HIS:H	6	0.67
(3,795)	1:52:A:MET:H	1:56:A:GLY:HA3	8	0.67
(3,634)	1:103:A:ILE:HG12	1:104:A:VAL:H	1	0.67
(3,561)	1:40:A:LYS:HE3	1:40:A:LYS:HB2	2	0.67
(3,451)	1:121:A:GLU:H	1:118:A:ILE:HG23	8	0.67
(3,339)	1:30:A:GLU:HG2	1:32:A:TYR:H	2	0.67
(3,339)	1:30:A:GLU:HG2	1:32:A:TYR:H	10	0.67
(2,566)	1:63:A:GLN:HB2	1:46:A:TYR:H	1	0.67
(2,566)	1:63:A:GLN:HB2	1:46:A:TYR:H	7	0.67
(2,398)	1:13:A:TYR:HB3	1:15:A:LEU:HD21	4	0.67
(2,398)	1:13:A:TYR:HB3	1:15:A:LEU:HD22	4	0.67
(2,398)	1:13:A:TYR:HB3	1:15:A:LEU:HD23	4	0.67
(1,3840)	1:46:A:TYR:HE1	1:13:A:TYR:HB2	6	0.67
(1,3840)	1:46:A:TYR:HE2	1:13:A:TYR:HB2	6	0.67
(1,3780)	1:63:A:GLN:HB2	1:46:A:TYR:HD1	3	0.67
(1,3780)	1:63:A:GLN:HB2	1:46:A:TYR:HD2	3	0.67
(1,3652)	1:22:A:LYS:H	1:22:A:LYS:HE2	4	0.67
(1,3331)	1:20:A:ILE:H	1:124:A:SER:HB3	9	0.67
(1,3061)	1:52:A:MET:H	1:52:A:MET:HG2	7	0.67
(1,2922)	1:67:A:GLU:H	1:22:A:LYS:HB2	5	0.67
(1,2734)	1:87:A:ASN:H	1:87:A:ASN:HB3	7	0.67
(1,2719)	1:88:A:GLU:H	1:87:A:ASN:HB2	7	0.67
(1,2223)	1:119:A:GLN:H	1:100:A:SER:HB2	6	0.67
(1,1892)	1:113:A:ARG:HD2	1:114:A:ARG:H	7	0.67
(1,1822)	1:110:A:LEU:H	1:109:A:PRO:HG2	1	0.67
(1,1532)	1:93:A:SER:HA	1:73:A:PRO:HG2	2	0.67
(1,1520)	1:91:A:LEU:HD11	1:71:A:PRO:HD3	8	0.67
(1,1520)	1:91:A:LEU:HD12	1:71:A:PRO:HD3	8	0.67
(1,1520)	1:91:A:LEU:HD13	1:71:A:PRO:HD3	8	0.67
(1,1520)	1:91:A:LEU:HD11	1:71:A:PRO:HD3	9	0.67
(1,1520)	1:91:A:LEU:HD12	1:71:A:PRO:HD3	9	0.67
(1,1520)	1:91:A:LEU:HD13	1:71:A:PRO:HD3	9	0.67
(1,1285)	1:76:A:ARG:HG2	1:126:A:LEU:HD21	9	0.67
(1,1285)	1:76:A:ARG:HG2	1:126:A:LEU:HD22	9	0.67
(1,1285)	1:76:A:ARG:HG2	1:126:A:LEU:HD23	9	0.67
(1,1273)	1:76:A:ARG:HG3	1:76:A:ARG:HA	4	0.67
(1,1273)	1:76:A:ARG:HG3	1:76:A:ARG:HA	8	0.67
(1,1265)	1:76:A:ARG:H	1:76:A:ARG:HG3	3	0.67
(1,1265)	1:76:A:ARG:H	1:76:A:ARG:HG3	4	0.67
(1,1265)	1:76:A:ARG:H	1:76:A:ARG:HG3	8	0.67
(1,1265)	1:76:A:ARG:H	1:76:A:ARG:HG3	10	0.67
(1,1183)	1:71:A:PRO:HD3	1:70:A:ILE:HG21	5	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1183)	1:71:A:PRO:HD3	1:70:A:ILE:HG22	5	0.67
(1,1183)	1:71:A:PRO:HD3	1:70:A:ILE:HG23	5	0.67
(1,695)	1:14:A:TRP:HB3	1:80:A:LEU:HD11	5	0.67
(1,695)	1:14:A:TRP:HB3	1:80:A:LEU:HD12	5	0.67
(1,695)	1:14:A:TRP:HB3	1:80:A:LEU:HD13	5	0.67
(1,673)	1:41:A:GLU:HG3	1:43:A:ILE:HA	3	0.67
(3,1181)	1:55:A:SER:HB3	1:57:A:ASP:HB2	2	0.66
(3,1172)	1:118:A:ILE:HG12	1:103:A:ILE:HG13	10	0.66
(3,1036)	1:21:A:VAL:HG13	1:22:A:LYS:H	3	0.66
(3,995)	1:102:A:THR:HG23	1:116:A:GLU:H	4	0.66
(3,722)	1:45:A:LYS:H	1:44:A:ASP:HB2	1	0.66
(3,699)	1:110:A:LEU:HA	1:105:A:ILE:HG22	5	0.66
(3,537)	1:76:A:ARG:H	1:76:A:ARG:HD2	10	0.66
(3,451)	1:121:A:GLU:H	1:118:A:ILE:HG23	4	0.66
(3,300)	1:11:A:THR:HG23	1:13:A:TYR:HE2	6	0.66
(1,3726)	1:95:A:ASN:HD21	1:98:A:THR:HB	9	0.66
(1,3590)	1:97:A:LYS:HB3	1:95:A:ASN:HD21	7	0.66
(1,3469)	1:78:A:LEU:HD11	1:16:A:GLN:HE21	6	0.66
(1,3469)	1:78:A:LEU:HD12	1:16:A:GLN:HE21	6	0.66
(1,3469)	1:78:A:LEU:HD13	1:16:A:GLN:HE21	6	0.66
(1,3434)	1:63:A:GLN:HE22	1:14:A:TRP:HE1	3	0.66
(1,3346)	1:39:A:VAL:HG21	1:18:A:GLU:H	6	0.66
(1,3346)	1:39:A:VAL:HG22	1:18:A:GLU:H	6	0.66
(1,3346)	1:39:A:VAL:HG23	1:18:A:GLU:H	6	0.66
(1,3112)	1:46:A:TYR:HB3	1:46:A:TYR:H	7	0.66
(1,2841)	1:111:A:LYS:HE3	1:112:A:GLY:H	6	0.66
(1,2749)	1:85:A:ARG:HG3	1:86:A:GLY:H	9	0.66
(1,2734)	1:87:A:ASN:H	1:87:A:ASN:HB3	4	0.66
(1,2434)	1:116:A:GLU:H	1:116:A:GLU:HG2	7	0.66
(1,2246)	1:13:A:TYR:HB3	1:45:A:LYS:HD2	5	0.66
(1,1488)	1:106:A:GLU:HG2	1:89:A:GLY:HA2	6	0.66
(1,1265)	1:76:A:ARG:H	1:76:A:ARG:HG3	6	0.66
(1,1183)	1:71:A:PRO:HD3	1:70:A:ILE:HG21	6	0.66
(1,1183)	1:71:A:PRO:HD3	1:70:A:ILE:HG22	6	0.66
(1,1183)	1:71:A:PRO:HD3	1:70:A:ILE:HG23	6	0.66
(1,685)	1:60:A:LYS:HE3	1:43:A:ILE:HD11	3	0.66
(1,685)	1:60:A:LYS:HE3	1:43:A:ILE:HD12	3	0.66
(1,685)	1:60:A:LYS:HE3	1:43:A:ILE:HD13	3	0.66
(1,577)	1:15:A:LEU:HD21	1:39:A:VAL:HG11	9	0.66
(1,577)	1:15:A:LEU:HD21	1:39:A:VAL:HG12	9	0.66
(1,577)	1:15:A:LEU:HD21	1:39:A:VAL:HG13	9	0.66
(1,577)	1:15:A:LEU:HD22	1:39:A:VAL:HG11	9	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,577)	1:15:A:LEU:HD22	1:39:A:VAL:HG12	9	0.66
(1,577)	1:15:A:LEU:HD22	1:39:A:VAL:HG13	9	0.66
(1,577)	1:15:A:LEU:HD23	1:39:A:VAL:HG11	9	0.66
(1,577)	1:15:A:LEU:HD23	1:39:A:VAL:HG12	9	0.66
(1,577)	1:15:A:LEU:HD23	1:39:A:VAL:HG13	9	0.66
(1,577)	1:15:A:LEU:HD21	1:39:A:VAL:HG11	10	0.66
(1,577)	1:15:A:LEU:HD21	1:39:A:VAL:HG12	10	0.66
(1,577)	1:15:A:LEU:HD21	1:39:A:VAL:HG13	10	0.66
(1,577)	1:15:A:LEU:HD22	1:39:A:VAL:HG11	10	0.66
(1,577)	1:15:A:LEU:HD22	1:39:A:VAL:HG12	10	0.66
(1,577)	1:15:A:LEU:HD22	1:39:A:VAL:HG13	10	0.66
(1,577)	1:15:A:LEU:HD23	1:39:A:VAL:HG11	10	0.66
(1,577)	1:15:A:LEU:HD23	1:39:A:VAL:HG12	10	0.66
(1,577)	1:15:A:LEU:HD23	1:39:A:VAL:HG13	10	0.66
(1,434)	1:61:A:LEU:HD21	1:59:A:LEU:HD11	5	0.66
(1,434)	1:61:A:LEU:HD21	1:59:A:LEU:HD12	5	0.66
(1,434)	1:61:A:LEU:HD21	1:59:A:LEU:HD13	5	0.66
(1,434)	1:61:A:LEU:HD22	1:59:A:LEU:HD11	5	0.66
(1,434)	1:61:A:LEU:HD22	1:59:A:LEU:HD12	5	0.66
(1,434)	1:61:A:LEU:HD22	1:59:A:LEU:HD13	5	0.66
(1,434)	1:61:A:LEU:HD23	1:59:A:LEU:HD11	5	0.66
(1,434)	1:61:A:LEU:HD23	1:59:A:LEU:HD12	5	0.66
(1,434)	1:61:A:LEU:HD23	1:59:A:LEU:HD13	5	0.66
(1,390)	1:24:A:ILE:HD11	1:67:A:GLU:HB3	10	0.66
(1,390)	1:24:A:ILE:HD12	1:67:A:GLU:HB3	10	0.66
(1,390)	1:24:A:ILE:HD13	1:67:A:GLU:HB3	10	0.66
(1,42)	1:8:A:THR:HA	1:9:A:ALA:H	3	0.66
(3,1036)	1:21:A:VAL:HG13	1:22:A:LYS:H	1	0.65
(3,148)	1:73:A:PRO:HG2	1:93:A:SER:HB3	2	0.65
(2,46)	1:22:A:LYS:HE2	1:24:A:ILE:HA	5	0.65
(1,3866)	1:120:A:TYR:HE1	1:99:A:PHE:H	9	0.65
(1,3866)	1:120:A:TYR:HE2	1:99:A:PHE:H	9	0.65
(1,3594)	1:97:A:LYS:H	1:95:A:ASN:HD22	5	0.65
(1,3591)	1:98:A:THR:HG21	1:95:A:ASN:HD21	9	0.65
(1,3591)	1:98:A:THR:HG22	1:95:A:ASN:HD21	9	0.65
(1,3591)	1:98:A:THR:HG23	1:95:A:ASN:HD21	9	0.65
(1,3590)	1:97:A:LYS:HB3	1:95:A:ASN:HD21	8	0.65
(1,3520)	1:52:A:MET:HG2	1:59:A:LEU:H	9	0.65
(1,3112)	1:46:A:TYR:HB3	1:46:A:TYR:H	5	0.65
(1,2734)	1:87:A:ASN:H	1:87:A:ASN:HB3	2	0.65
(1,2719)	1:88:A:GLU:H	1:87:A:ASN:HB2	10	0.65
(1,2441)	1:84:A:TYR:HE1	1:116:A:GLU:H	10	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2441)	1:84:A:TYR:HE2	1:116:A:GLU:H	10	0.65
(1,2333)	1:125:A:LYS:H	1:71:A:PRO:HD2	8	0.65
(1,2323)	1:126:A:LEU:H	1:71:A:PRO:HD2	9	0.65
(1,2305)	1:104:A:VAL:HG11	1:114:A:ARG:HG2	6	0.65
(1,2305)	1:104:A:VAL:HG12	1:114:A:ARG:HG2	6	0.65
(1,2305)	1:104:A:VAL:HG13	1:114:A:ARG:HG2	6	0.65
(1,2294)	1:19:A:ILE:HD11	1:16:A:GLN:HB2	8	0.65
(1,2294)	1:19:A:ILE:HD12	1:16:A:GLN:HB2	8	0.65
(1,2294)	1:19:A:ILE:HD13	1:16:A:GLN:HB2	8	0.65
(1,2251)	1:60:A:LYS:HE2	1:49:A:VAL:HA	1	0.65
(1,2238)	1:76:A:ARG:HD2	1:90:A:THR:HA	1	0.65
(1,2122)	1:78:A:LEU:HA	1:123:A:ILE:HG21	10	0.65
(1,2122)	1:78:A:LEU:HA	1:123:A:ILE:HG22	10	0.65
(1,2122)	1:78:A:LEU:HA	1:123:A:ILE:HG23	10	0.65
(1,1959)	1:118:A:ILE:HD11	1:122:A:ASP:HB2	3	0.65
(1,1959)	1:118:A:ILE:HD12	1:122:A:ASP:HB2	3	0.65
(1,1959)	1:118:A:ILE:HD13	1:122:A:ASP:HB2	3	0.65
(1,1892)	1:113:A:ARG:HD2	1:114:A:ARG:H	6	0.65
(1,1641)	1:117:A:GLY:HA3	1:100:A:SER:HB2	5	0.65
(1,1584)	1:120:A:TYR:HD1	1:94:A:ILE:HG21	6	0.65
(1,1584)	1:120:A:TYR:HD1	1:94:A:ILE:HG22	6	0.65
(1,1584)	1:120:A:TYR:HD1	1:94:A:ILE:HG23	6	0.65
(1,1584)	1:120:A:TYR:HD2	1:94:A:ILE:HG21	6	0.65
(1,1584)	1:120:A:TYR:HD2	1:94:A:ILE:HG22	6	0.65
(1,1584)	1:120:A:TYR:HD2	1:94:A:ILE:HG23	6	0.65
(1,1541)	1:93:A:SER:H	1:92:A:GLU:HG3	10	0.65
(1,1521)	1:73:A:PRO:HD2	1:91:A:LEU:HD11	5	0.65
(1,1521)	1:73:A:PRO:HD2	1:91:A:LEU:HD12	5	0.65
(1,1521)	1:73:A:PRO:HD2	1:91:A:LEU:HD13	5	0.65
(1,1273)	1:76:A:ARG:HG3	1:76:A:ARG:HA	5	0.65
(1,1273)	1:76:A:ARG:HG3	1:76:A:ARG:HA	6	0.65
(1,577)	1:15:A:LEU:HD21	1:39:A:VAL:HG11	3	0.65
(1,577)	1:15:A:LEU:HD21	1:39:A:VAL:HG12	3	0.65
(1,577)	1:15:A:LEU:HD21	1:39:A:VAL:HG13	3	0.65
(1,577)	1:15:A:LEU:HD22	1:39:A:VAL:HG11	3	0.65
(1,577)	1:15:A:LEU:HD22	1:39:A:VAL:HG12	3	0.65
(1,577)	1:15:A:LEU:HD22	1:39:A:VAL:HG13	3	0.65
(1,577)	1:15:A:LEU:HD23	1:39:A:VAL:HG11	3	0.65
(1,577)	1:15:A:LEU:HD23	1:39:A:VAL:HG12	3	0.65
(1,577)	1:15:A:LEU:HD23	1:39:A:VAL:HG13	3	0.65
(1,201)	1:73:A:PRO:HG2	1:91:A:LEU:HD11	1	0.65
(1,201)	1:73:A:PRO:HG2	1:91:A:LEU:HD12	1	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,201)	1:73:A:PRO:HG2	1:91:A:LEU:HD13	1	0.65
(3,1155)	1:118:A:ILE:HG21	1:119:A:GLN:H	3	0.64
(3,1097)	1:82:A:GLY:H	1:11:A:THR:HG22	7	0.64
(3,1036)	1:21:A:VAL:HG13	1:22:A:LYS:H	8	0.64
(3,722)	1:45:A:LYS:H	1:44:A:ASP:HB2	8	0.64
(3,582)	1:118:A:ILE:HD13	1:118:A:ILE:H	4	0.64
(3,32)	1:22:A:LYS:HD2	1:34:A:LYS:HA	2	0.64
(2,393)	1:73:A:PRO:HG2	1:70:A:ILE:HG21	6	0.64
(2,393)	1:73:A:PRO:HG2	1:70:A:ILE:HG22	6	0.64
(2,393)	1:73:A:PRO:HG2	1:70:A:ILE:HG23	6	0.64
(1,3346)	1:39:A:VAL:HG21	1:18:A:GLU:H	7	0.64
(1,3346)	1:39:A:VAL:HG22	1:18:A:GLU:H	7	0.64
(1,3346)	1:39:A:VAL:HG23	1:18:A:GLU:H	7	0.64
(1,2880)	1:75:A:LYS:HB3	1:72:A:ALA:H	10	0.64
(1,2734)	1:87:A:ASN:H	1:87:A:ASN:HB3	5	0.64
(1,2734)	1:87:A:ASN:H	1:87:A:ASN:HB3	9	0.64
(1,2734)	1:87:A:ASN:H	1:87:A:ASN:HB3	10	0.64
(1,2475)	1:110:A:LEU:HD11	1:111:A:LYS:H	10	0.64
(1,2475)	1:110:A:LEU:HD12	1:111:A:LYS:H	10	0.64
(1,2475)	1:110:A:LEU:HD13	1:111:A:LYS:H	10	0.64
(1,1892)	1:113:A:ARG:HD2	1:114:A:ARG:H	3	0.64
(1,1887)	1:76:A:ARG:HD3	1:126:A:LEU:HD21	3	0.64
(1,1887)	1:76:A:ARG:HD3	1:126:A:LEU:HD22	3	0.64
(1,1887)	1:76:A:ARG:HD3	1:126:A:LEU:HD23	3	0.64
(1,1869)	1:119:A:GLN:HA	1:100:A:SER:HB2	2	0.64
(1,1823)	1:110:A:LEU:H	1:109:A:PRO:HG2	3	0.64
(1,1822)	1:110:A:LEU:H	1:109:A:PRO:HG2	7	0.64
(1,1448)	1:85:A:ARG:HD2	1:81:A:ASN:HA	7	0.64
(1,1370)	1:122:A:ASP:HA	1:80:A:LEU:HB3	4	0.64
(1,1370)	1:122:A:ASP:HA	1:80:A:LEU:HB3	8	0.64
(1,1370)	1:122:A:ASP:HA	1:80:A:LEU:HB3	9	0.64
(1,1285)	1:76:A:ARG:HG2	1:126:A:LEU:HD21	4	0.64
(1,1285)	1:76:A:ARG:HG2	1:126:A:LEU:HD22	4	0.64
(1,1285)	1:76:A:ARG:HG2	1:126:A:LEU:HD23	4	0.64
(1,1274)	1:77:A:ILE:HG12	1:76:A:ARG:HA	1	0.64
(1,1273)	1:76:A:ARG:HG3	1:76:A:ARG:HA	3	0.64
(1,1183)	1:71:A:PRO:HD3	1:70:A:ILE:HG21	8	0.64
(1,1183)	1:71:A:PRO:HD3	1:70:A:ILE:HG22	8	0.64
(1,1183)	1:71:A:PRO:HD3	1:70:A:ILE:HG23	8	0.64
(1,1037)	1:63:A:GLN:HG2	1:64:A:THR:HA	7	0.64
(1,397)	1:24:A:ILE:H	1:24:A:ILE:HG13	8	0.64
(3,1157)	1:80:A:LEU:HD11	1:14:A:TRP:HZ3	1	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1157)	1:80:A:LEU:HD11	1:14:A:TRP:HZ3	9	0.63
(3,1068)	1:126:A:LEU:H	1:76:A:ARG:HB2	1	0.63
(3,975)	1:97:A:LYS:HB2	1:98:A:THR:HG21	4	0.63
(3,850)	1:15:A:LEU:HD13	1:14:A:TRP:HH2	7	0.63
(3,777)	1:18:A:GLU:H	1:38:A:ILE:HG22	2	0.63
(3,699)	1:110:A:LEU:HA	1:105:A:ILE:HG21	3	0.63
(3,699)	1:110:A:LEU:HA	1:105:A:ILE:HG22	9	0.63
(3,582)	1:118:A:ILE:HD11	1:118:A:ILE:H	9	0.63
(3,518)	1:26:A:LYS:HD2	1:30:A:GLU:HG2	6	0.63
(3,354)	1:115:A:VAL:H	1:118:A:ILE:HG13	4	0.63
(3,32)	1:34:A:LYS:HA	1:34:A:LYS:HD2	6	0.63
(3,30)	1:103:A:ILE:H	1:103:A:ILE:HD11	1	0.63
(2,566)	1:63:A:GLN:HB2	1:46:A:TYR:H	4	0.63
(2,142)	1:10:A:ARG:HA	1:82:A:GLY:HA3	2	0.63
(1,3112)	1:46:A:TYR:HB3	1:46:A:TYR:H	2	0.63
(1,2850)	1:75:A:LYS:HB3	1:76:A:ARG:H	10	0.63
(1,2734)	1:87:A:ASN:H	1:87:A:ASN:HB3	1	0.63
(1,2406)	1:118:A:ILE:HD11	1:119:A:GLN:H	6	0.63
(1,2406)	1:118:A:ILE:HD12	1:119:A:GLN:H	6	0.63
(1,2406)	1:118:A:ILE:HD13	1:119:A:GLN:H	6	0.63
(1,2238)	1:76:A:ARG:HD2	1:90:A:THR:HA	6	0.63
(1,1959)	1:118:A:ILE:HD11	1:122:A:ASP:HB2	2	0.63
(1,1959)	1:118:A:ILE:HD12	1:122:A:ASP:HB2	2	0.63
(1,1959)	1:118:A:ILE:HD13	1:122:A:ASP:HB2	2	0.63
(1,1890)	1:84:A:TYR:HE1	1:113:A:ARG:HD3	8	0.63
(1,1890)	1:84:A:TYR:HE2	1:113:A:ARG:HD3	8	0.63
(1,1285)	1:76:A:ARG:HG2	1:126:A:LEU:HD21	2	0.63
(1,1285)	1:76:A:ARG:HG2	1:126:A:LEU:HD22	2	0.63
(1,1285)	1:76:A:ARG:HG2	1:126:A:LEU:HD23	2	0.63
(1,1274)	1:77:A:ILE:HG12	1:76:A:ARG:HA	3	0.63
(1,1220)	1:73:A:PRO:HA	1:91:A:LEU:HB2	10	0.63
(1,1096)	1:91:A:LEU:HD11	1:91:A:LEU:HB3	10	0.63
(1,1096)	1:91:A:LEU:HD12	1:91:A:LEU:HB3	10	0.63
(1,1096)	1:91:A:LEU:HD13	1:91:A:LEU:HB3	10	0.63
(1,588)	1:53:A:ILE:HA	1:38:A:ILE:HG12	6	0.63
(1,434)	1:61:A:LEU:HD21	1:59:A:LEU:HD11	4	0.63
(1,434)	1:61:A:LEU:HD21	1:59:A:LEU:HD12	4	0.63
(1,434)	1:61:A:LEU:HD21	1:59:A:LEU:HD13	4	0.63
(1,434)	1:61:A:LEU:HD22	1:59:A:LEU:HD11	4	0.63
(1,434)	1:61:A:LEU:HD22	1:59:A:LEU:HD12	4	0.63
(1,434)	1:61:A:LEU:HD22	1:59:A:LEU:HD13	4	0.63
(1,434)	1:61:A:LEU:HD23	1:59:A:LEU:HD11	4	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,434)	1:61:A:LEU:HD23	1:59:A:LEU:HD12	4	0.63
(1,434)	1:61:A:LEU:HD23	1:59:A:LEU:HD13	4	0.63
(1,434)	1:61:A:LEU:HD21	1:59:A:LEU:HD11	6	0.63
(1,434)	1:61:A:LEU:HD21	1:59:A:LEU:HD12	6	0.63
(1,434)	1:61:A:LEU:HD21	1:59:A:LEU:HD13	6	0.63
(1,434)	1:61:A:LEU:HD22	1:59:A:LEU:HD11	6	0.63
(1,434)	1:61:A:LEU:HD22	1:59:A:LEU:HD12	6	0.63
(1,434)	1:61:A:LEU:HD22	1:59:A:LEU:HD13	6	0.63
(1,434)	1:61:A:LEU:HD23	1:59:A:LEU:HD11	6	0.63
(1,434)	1:61:A:LEU:HD23	1:59:A:LEU:HD12	6	0.63
(1,434)	1:61:A:LEU:HD23	1:59:A:LEU:HD13	6	0.63
(3,1036)	1:21:A:VAL:HG11	1:22:A:LYS:H	9	0.62
(3,777)	1:18:A:GLU:H	1:38:A:ILE:HG23	10	0.62
(3,722)	1:45:A:LYS:H	1:44:A:ASP:HB2	7	0.62
(3,475)	1:32:A:TYR:HB2	1:30:A:GLU:HA	2	0.62
(3,449)	1:104:A:VAL:HG12	1:104:A:VAL:HG23	10	0.62
(3,162)	1:15:A:LEU:H	1:48:A:ALA:HB1	6	0.62
(3,148)	1:73:A:PRO:HG2	1:93:A:SER:HB3	7	0.62
(1,3780)	1:63:A:GLN:HB2	1:46:A:TYR:HD1	7	0.62
(1,3780)	1:63:A:GLN:HB2	1:46:A:TYR:HD2	7	0.62
(1,3728)	1:97:A:LYS:H	1:95:A:ASN:HD21	4	0.62
(1,3694)	1:68:A:THR:H	1:22:A:LYS:HB2	5	0.62
(1,3522)	1:40:A:LYS:HE3	1:51:A:LYS:H	5	0.62
(1,3346)	1:39:A:VAL:HG21	1:18:A:GLU:H	8	0.62
(1,3346)	1:39:A:VAL:HG22	1:18:A:GLU:H	8	0.62
(1,3346)	1:39:A:VAL:HG23	1:18:A:GLU:H	8	0.62
(1,3112)	1:46:A:TYR:HB3	1:46:A:TYR:H	9	0.62
(1,2397)	1:122:A:ASP:HA	1:119:A:GLN:H	6	0.62
(1,2333)	1:125:A:LYS:H	1:71:A:PRO:HD2	4	0.62
(1,2244)	1:15:A:LEU:HB2	1:48:A:ALA:HB1	5	0.62
(1,2244)	1:15:A:LEU:HB2	1:48:A:ALA:HB2	5	0.62
(1,2244)	1:15:A:LEU:HB2	1:48:A:ALA:HB3	5	0.62
(1,2223)	1:119:A:GLN:H	1:100:A:SER:HB2	10	0.62
(1,1928)	1:115:A:VAL:HG21	1:84:A:TYR:HD1	5	0.62
(1,1928)	1:115:A:VAL:HG21	1:84:A:TYR:HD2	5	0.62
(1,1928)	1:115:A:VAL:HG22	1:84:A:TYR:HD1	5	0.62
(1,1928)	1:115:A:VAL:HG22	1:84:A:TYR:HD2	5	0.62
(1,1928)	1:115:A:VAL:HG23	1:84:A:TYR:HD1	5	0.62
(1,1928)	1:115:A:VAL:HG23	1:84:A:TYR:HD2	5	0.62
(1,1869)	1:119:A:GLN:HA	1:100:A:SER:HB2	9	0.62
(1,1822)	1:110:A:LEU:H	1:109:A:PRO:HG2	8	0.62
(1,1682)	1:47:A:THR:HG21	1:43:A:ILE:HB	5	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1682)	1:47:A:THR:HG22	1:43:A:ILE:HB	5	0.62
(1,1682)	1:47:A:THR:HG23	1:43:A:ILE:HB	5	0.62
(1,1682)	1:47:A:THR:HG21	1:43:A:ILE:HB	7	0.62
(1,1682)	1:47:A:THR:HG22	1:43:A:ILE:HB	7	0.62
(1,1682)	1:47:A:THR:HG23	1:43:A:ILE:HB	7	0.62
(1,1541)	1:93:A:SER:H	1:92:A:GLU:HG3	5	0.62
(1,1532)	1:93:A:SER:HA	1:73:A:PRO:HG2	3	0.62
(1,1521)	1:73:A:PRO:HD2	1:91:A:LEU:HD11	4	0.62
(1,1521)	1:73:A:PRO:HD2	1:91:A:LEU:HD12	4	0.62
(1,1521)	1:73:A:PRO:HD2	1:91:A:LEU:HD13	4	0.62
(1,1521)	1:73:A:PRO:HD2	1:91:A:LEU:HD11	8	0.62
(1,1521)	1:73:A:PRO:HD2	1:91:A:LEU:HD12	8	0.62
(1,1521)	1:73:A:PRO:HD2	1:91:A:LEU:HD13	8	0.62
(1,1448)	1:85:A:ARG:HD2	1:81:A:ASN:HA	8	0.62
(1,781)	1:48:A:ALA:HB1	1:39:A:VAL:HB	8	0.62
(1,781)	1:48:A:ALA:HB2	1:39:A:VAL:HB	8	0.62
(1,781)	1:48:A:ALA:HB3	1:39:A:VAL:HB	8	0.62
(1,751)	1:46:A:TYR:HA	1:63:A:GLN:HB2	9	0.62
(1,440)	1:111:A:LYS:HD2	1:107:A:THR:HA	7	0.62
(1,397)	1:24:A:ILE:H	1:24:A:ILE:HG13	9	0.62
(1,384)	1:24:A:ILE:HD11	1:65:A:HIS:H	7	0.62
(1,384)	1:24:A:ILE:HD12	1:65:A:HIS:H	7	0.62
(1,384)	1:24:A:ILE:HD13	1:65:A:HIS:H	7	0.62
(1,169)	1:80:A:LEU:HD21	1:16:A:GLN:HG3	6	0.62
(1,169)	1:80:A:LEU:HD22	1:16:A:GLN:HG3	6	0.62
(1,169)	1:80:A:LEU:HD23	1:16:A:GLN:HG3	6	0.62
(3,1095)	1:27:A:LYS:HB3	1:25:A:THR:H	6	0.61
(3,399)	1:43:A:ILE:HG22	1:44:A:ASP:HA	1	0.61
(3,391)	1:114:A:ARG:H	1:114:A:ARG:HG3	2	0.61
(3,165)	1:79:A:VAL:HG12	1:88:A:GLU:HA	4	0.61
(3,30)	1:103:A:ILE:H	1:103:A:ILE:HD11	7	0.61
(1,3778)	1:45:A:LYS:HB3	1:46:A:TYR:HD1	3	0.61
(1,3778)	1:45:A:LYS:HB3	1:46:A:TYR:HD2	3	0.61
(1,3714)	1:84:A:TYR:HD1	1:87:A:ASN:HD22	4	0.61
(1,3714)	1:84:A:TYR:HD2	1:87:A:ASN:HD22	4	0.61
(1,3694)	1:68:A:THR:H	1:22:A:LYS:HB2	2	0.61
(1,3399)	1:11:A:THR:H	1:11:A:THR:HG21	3	0.61
(1,3399)	1:11:A:THR:H	1:11:A:THR:HG22	3	0.61
(1,3399)	1:11:A:THR:H	1:11:A:THR:HG23	3	0.61
(1,3112)	1:46:A:TYR:HB3	1:46:A:TYR:H	1	0.61
(1,3112)	1:46:A:TYR:HB3	1:46:A:TYR:H	4	0.61
(1,2735)	1:85:A:ARG:HB3	1:87:A:ASN:H	9	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2685)	1:76:A:ARG:HD2	1:91:A:LEU:H	5	0.61
(1,2434)	1:116:A:GLU:H	1:116:A:GLU:HG2	3	0.61
(1,2305)	1:104:A:VAL:HG11	1:114:A:ARG:HG2	4	0.61
(1,2305)	1:104:A:VAL:HG12	1:114:A:ARG:HG2	4	0.61
(1,2305)	1:104:A:VAL:HG13	1:114:A:ARG:HG2	4	0.61
(1,2222)	1:117:A:GLY:H	1:100:A:SER:HB3	3	0.61
(1,1959)	1:118:A:ILE:HD11	1:122:A:ASP:HB2	1	0.61
(1,1959)	1:118:A:ILE:HD12	1:122:A:ASP:HB2	1	0.61
(1,1959)	1:118:A:ILE:HD13	1:122:A:ASP:HB2	1	0.61
(1,1892)	1:113:A:ARG:HD2	1:114:A:ARG:H	9	0.61
(1,1822)	1:110:A:LEU:H	1:109:A:PRO:HG2	4	0.61
(1,1520)	1:91:A:LEU:HD11	1:71:A:PRO:HD3	4	0.61
(1,1520)	1:91:A:LEU:HD12	1:71:A:PRO:HD3	4	0.61
(1,1520)	1:91:A:LEU:HD13	1:71:A:PRO:HD3	4	0.61
(1,1265)	1:76:A:ARG:H	1:76:A:ARG:HG3	1	0.61
(1,1265)	1:76:A:ARG:H	1:76:A:ARG:HG3	2	0.61
(1,1095)	1:73:A:PRO:HG2	1:91:A:LEU:HD11	8	0.61
(1,1095)	1:73:A:PRO:HG2	1:91:A:LEU:HD12	8	0.61
(1,1095)	1:73:A:PRO:HG2	1:91:A:LEU:HD13	8	0.61
(1,686)	1:41:A:GLU:HG3	1:43:A:ILE:HD11	10	0.61
(1,686)	1:41:A:GLU:HG3	1:43:A:ILE:HD12	10	0.61
(1,686)	1:41:A:GLU:HG3	1:43:A:ILE:HD13	10	0.61
(1,673)	1:41:A:GLU:HG3	1:43:A:ILE:HA	1	0.61
(1,397)	1:24:A:ILE:H	1:24:A:ILE:HG13	4	0.61
(1,397)	1:24:A:ILE:H	1:24:A:ILE:HG13	10	0.61
(1,201)	1:73:A:PRO:HG2	1:91:A:LEU:HD11	7	0.61
(1,201)	1:73:A:PRO:HG2	1:91:A:LEU:HD12	7	0.61
(1,201)	1:73:A:PRO:HG2	1:91:A:LEU:HD13	7	0.61
(3,863)	1:113:A:ARG:HD3	1:103:A:ILE:HD12	6	0.6
(3,722)	1:45:A:LYS:H	1:44:A:ASP:HB2	9	0.6
(3,633)	1:51:A:LYS:HG3	1:56:A:GLY:H	3	0.6
(3,339)	1:30:A:GLU:HG2	1:32:A:TYR:H	3	0.6
(3,162)	1:15:A:LEU:H	1:48:A:ALA:HB3	3	0.6
(3,122)	1:40:A:LYS:HE2	1:38:A:ILE:HG23	3	0.6
(2,650)	1:61:A:LEU:HB2	1:65:A:HIS:HD2	8	0.6
(2,589)	1:82:A:GLY:HA3	1:11:A:THR:H	3	0.6
(1,3728)	1:97:A:LYS:H	1:95:A:ASN:HD21	7	0.6
(1,3697)	1:68:A:THR:H	1:14:A:TRP:HE1	4	0.6
(1,3511)	1:43:A:ILE:H	1:41:A:GLU:HG3	9	0.6
(1,3509)	1:40:A:LYS:HE3	1:41:A:GLU:H	5	0.6
(1,3403)	1:10:A:ARG:HD2	1:10:A:ARG:H	7	0.6
(1,2591)	1:95:A:ASN:HB2	1:100:A:SER:H	2	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2441)	1:84:A:TYR:HE1	1:116:A:GLU:H	3	0.6
(1,2441)	1:84:A:TYR:HE2	1:116:A:GLU:H	3	0.6
(1,2346)	1:124:A:SER:H	1:78:A:LEU:HB2	4	0.6
(1,2333)	1:125:A:LYS:H	1:71:A:PRO:HD2	7	0.6
(1,1888)	1:76:A:ARG:HD2	1:90:A:THR:HG21	6	0.6
(1,1888)	1:76:A:ARG:HD2	1:90:A:THR:HG22	6	0.6
(1,1888)	1:76:A:ARG:HD2	1:90:A:THR:HG23	6	0.6
(1,1880)	1:113:A:ARG:HB3	1:115:A:VAL:HG11	10	0.6
(1,1880)	1:113:A:ARG:HB3	1:115:A:VAL:HG12	10	0.6
(1,1880)	1:113:A:ARG:HB3	1:115:A:VAL:HG13	10	0.6
(1,1606)	1:96:A:GLU:HG2	1:96:A:GLU:HA	8	0.6
(1,1606)	1:96:A:GLU:HG3	1:96:A:GLU:HA	9	0.6
(1,1606)	1:96:A:GLU:HG2	1:96:A:GLU:HA	10	0.6
(1,1541)	1:93:A:SER:H	1:92:A:GLU:HG3	9	0.6
(1,1527)	1:93:A:SER:H	1:91:A:LEU:HG	3	0.6
(1,1521)	1:73:A:PRO:HD2	1:91:A:LEU:HD11	2	0.6
(1,1521)	1:73:A:PRO:HD2	1:91:A:LEU:HD12	2	0.6
(1,1521)	1:73:A:PRO:HD2	1:91:A:LEU:HD13	2	0.6
(1,1274)	1:77:A:ILE:HG12	1:76:A:ARG:HA	4	0.6
(1,1274)	1:77:A:ILE:HG12	1:76:A:ARG:HA	7	0.6
(1,1220)	1:73:A:PRO:HA	1:91:A:LEU:HB2	3	0.6
(1,1183)	1:71:A:PRO:HD3	1:70:A:ILE:HG21	4	0.6
(1,1183)	1:71:A:PRO:HD3	1:70:A:ILE:HG22	4	0.6
(1,1183)	1:71:A:PRO:HD3	1:70:A:ILE:HG23	4	0.6
(1,1097)	1:91:A:LEU:HD11	1:91:A:LEU:HB3	10	0.6
(1,1097)	1:91:A:LEU:HD12	1:91:A:LEU:HB3	10	0.6
(1,1097)	1:91:A:LEU:HD13	1:91:A:LEU:HB3	10	0.6
(1,1095)	1:73:A:PRO:HG2	1:91:A:LEU:HD11	2	0.6
(1,1095)	1:73:A:PRO:HG2	1:91:A:LEU:HD12	2	0.6
(1,1095)	1:73:A:PRO:HG2	1:91:A:LEU:HD13	2	0.6
(1,1037)	1:63:A:GLN:HG2	1:64:A:THR:HA	9	0.6
(1,817)	1:51:A:LYS:HG3	1:56:A:GLY:HA3	1	0.6
(1,717)	1:45:A:LYS:HA	1:45:A:LYS:HG3	2	0.6
(1,588)	1:53:A:ILE:HA	1:38:A:ILE:HG12	2	0.6
(1,578)	1:42:A:VAL:HG11	1:39:A:VAL:HG21	3	0.6
(1,578)	1:42:A:VAL:HG11	1:39:A:VAL:HG22	3	0.6
(1,578)	1:42:A:VAL:HG11	1:39:A:VAL:HG23	3	0.6
(1,578)	1:42:A:VAL:HG12	1:39:A:VAL:HG21	3	0.6
(1,578)	1:42:A:VAL:HG12	1:39:A:VAL:HG22	3	0.6
(1,578)	1:42:A:VAL:HG12	1:39:A:VAL:HG23	3	0.6
(1,578)	1:42:A:VAL:HG13	1:39:A:VAL:HG21	3	0.6
(1,578)	1:42:A:VAL:HG13	1:39:A:VAL:HG22	3	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,578)	1:42:A:VAL:HG13	1:39:A:VAL:HG23	3	0.6
(1,565)	1:17:A:PRO:HA	1:39:A:VAL:HG21	7	0.6
(1,565)	1:17:A:PRO:HA	1:39:A:VAL:HG22	7	0.6
(1,565)	1:17:A:PRO:HA	1:39:A:VAL:HG23	7	0.6
(1,441)	1:28:A:LEU:HD21	1:28:A:LEU:HA	3	0.6
(1,441)	1:28:A:LEU:HD22	1:28:A:LEU:HA	3	0.6
(1,441)	1:28:A:LEU:HD23	1:28:A:LEU:HA	3	0.6
(1,397)	1:24:A:ILE:H	1:24:A:ILE:HG13	3	0.6
(1,33)	1:113:A:ARG:HA	1:113:A:ARG:HG3	1	0.6
(1,33)	1:113:A:ARG:HA	1:113:A:ARG:HG3	2	0.6
(3,1166)	1:118:A:ILE:HG13	1:103:A:ILE:H	6	0.59
(3,1164)	1:26:A:LYS:HG3	1:29:A:GLY:H	5	0.59
(3,1157)	1:80:A:LEU:HD13	1:14:A:TRP:HZ3	3	0.59
(3,1137)	1:113:A:ARG:HD2	1:114:A:ARG:HA	6	0.59
(3,1036)	1:21:A:VAL:HG12	1:22:A:LYS:H	10	0.59
(3,449)	1:104:A:VAL:HG13	1:104:A:VAL:HG23	5	0.59
(3,449)	1:104:A:VAL:HG11	1:104:A:VAL:HG22	6	0.59
(3,300)	1:11:A:THR:HG22	1:13:A:TYR:HE1	9	0.59
(3,211)	1:118:A:ILE:H	1:116:A:GLU:HB3	8	0.59
(1,3840)	1:46:A:TYR:HE1	1:13:A:TYR:HB2	2	0.59
(1,3840)	1:46:A:TYR:HE2	1:13:A:TYR:HB2	2	0.59
(1,3840)	1:46:A:TYR:HE1	1:13:A:TYR:HB2	4	0.59
(1,3840)	1:46:A:TYR:HE2	1:13:A:TYR:HB2	4	0.59
(1,3758)	1:27:A:LYS:HD3	1:65:A:HIS:HE1	2	0.59
(1,3728)	1:97:A:LYS:H	1:95:A:ASN:HD21	6	0.59
(1,3575)	1:87:A:ASN:H	1:87:A:ASN:HD22	6	0.59
(1,3346)	1:39:A:VAL:HG21	1:18:A:GLU:H	9	0.59
(1,3346)	1:39:A:VAL:HG22	1:18:A:GLU:H	9	0.59
(1,3346)	1:39:A:VAL:HG23	1:18:A:GLU:H	9	0.59
(1,3112)	1:46:A:TYR:HB3	1:46:A:TYR:H	3	0.59
(1,3112)	1:46:A:TYR:HB3	1:46:A:TYR:H	6	0.59
(1,3011)	1:58:A:LYS:H	1:57:A:ASP:HB3	8	0.59
(1,2887)	1:70:A:ILE:H	1:70:A:ILE:HG13	10	0.59
(1,2792)	1:81:A:ASN:H	1:81:A:ASN:HB3	9	0.59
(1,2709)	1:103:A:ILE:HB	1:89:A:GLY:H	10	0.59
(1,2592)	1:97:A:LYS:HB3	1:100:A:SER:H	6	0.59
(1,2536)	1:106:A:GLU:HG2	1:104:A:VAL:H	6	0.59
(1,2223)	1:119:A:GLN:H	1:100:A:SER:HB2	9	0.59
(1,2168)	1:61:A:LEU:HG	1:65:A:HIS:HB3	3	0.59
(1,2162)	1:115:A:VAL:HG21	1:113:A:ARG:HD3	7	0.59
(1,2162)	1:115:A:VAL:HG22	1:113:A:ARG:HD3	7	0.59
(1,2162)	1:115:A:VAL:HG23	1:113:A:ARG:HD3	7	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2007)	1:78:A:LEU:H	1:123:A:ILE:HA	1	0.59
(1,1881)	1:113:A:ARG:HD2	1:114:A:ARG:H	10	0.59
(1,1873)	1:113:A:ARG:HB2	1:115:A:VAL:HG11	7	0.59
(1,1873)	1:113:A:ARG:HB2	1:115:A:VAL:HG12	7	0.59
(1,1873)	1:113:A:ARG:HB2	1:115:A:VAL:HG13	7	0.59
(1,1606)	1:96:A:GLU:HG2	1:96:A:GLU:HA	3	0.59
(1,1606)	1:96:A:GLU:HG3	1:96:A:GLU:HA	4	0.59
(1,1606)	1:96:A:GLU:HG3	1:96:A:GLU:HA	5	0.59
(1,1606)	1:96:A:GLU:HG2	1:96:A:GLU:HA	7	0.59
(1,1274)	1:77:A:ILE:HG12	1:76:A:ARG:HA	5	0.59
(1,1274)	1:77:A:ILE:HG12	1:76:A:ARG:HA	9	0.59
(1,1256)	1:90:A:THR:HG21	1:74:A:GLY:HA3	4	0.59
(1,1256)	1:90:A:THR:HG22	1:74:A:GLY:HA3	4	0.59
(1,1256)	1:90:A:THR:HG23	1:74:A:GLY:HA3	4	0.59
(1,856)	1:38:A:ILE:H	1:53:A:ILE:HD11	9	0.59
(1,856)	1:38:A:ILE:H	1:53:A:ILE:HD12	9	0.59
(1,856)	1:38:A:ILE:H	1:53:A:ILE:HD13	9	0.59
(1,717)	1:45:A:LYS:HA	1:45:A:LYS:HG3	8	0.59
(1,660)	1:15:A:LEU:H	1:42:A:VAL:HG21	3	0.59
(1,660)	1:15:A:LEU:H	1:42:A:VAL:HG22	3	0.59
(1,660)	1:15:A:LEU:H	1:42:A:VAL:HG23	3	0.59
(1,577)	1:15:A:LEU:HD21	1:39:A:VAL:HG11	5	0.59
(1,577)	1:15:A:LEU:HD21	1:39:A:VAL:HG12	5	0.59
(1,577)	1:15:A:LEU:HD21	1:39:A:VAL:HG13	5	0.59
(1,577)	1:15:A:LEU:HD22	1:39:A:VAL:HG11	5	0.59
(1,577)	1:15:A:LEU:HD22	1:39:A:VAL:HG12	5	0.59
(1,577)	1:15:A:LEU:HD22	1:39:A:VAL:HG13	5	0.59
(1,577)	1:15:A:LEU:HD23	1:39:A:VAL:HG11	5	0.59
(1,577)	1:15:A:LEU:HD23	1:39:A:VAL:HG12	5	0.59
(1,577)	1:15:A:LEU:HD23	1:39:A:VAL:HG13	5	0.59
(1,397)	1:24:A:ILE:H	1:24:A:ILE:HG13	1	0.59
(1,397)	1:24:A:ILE:H	1:24:A:ILE:HG13	6	0.59
(1,266)	1:127:A:ALA:H	1:19:A:ILE:HG21	2	0.59
(1,266)	1:127:A:ALA:H	1:19:A:ILE:HG22	2	0.59
(1,266)	1:127:A:ALA:H	1:19:A:ILE:HG23	2	0.59
(1,165)	1:78:A:LEU:HD11	1:16:A:GLN:HG2	6	0.59
(1,165)	1:78:A:LEU:HD12	1:16:A:GLN:HG2	6	0.59
(1,165)	1:78:A:LEU:HD13	1:16:A:GLN:HG2	6	0.59
(1,33)	1:113:A:ARG:HA	1:113:A:ARG:HG3	5	0.59
(3,1042)	1:19:A:ILE:HA	1:127:A:ALA:HA	9	0.58
(3,900)	1:34:A:LYS:HE3	1:34:A:LYS:HG3	1	0.58
(3,863)	1:113:A:ARG:HD3	1:103:A:ILE:HD13	9	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,850)	1:15:A:LEU:HD13	1:14:A:TRP:HH2	9	0.58
(3,849)	1:35:A:LYS:HD2	1:33:A:HIS:H	6	0.58
(3,767)	1:77:A:ILE:H	1:77:A:ILE:HD12	4	0.58
(3,449)	1:104:A:VAL:HG11	1:104:A:VAL:HG22	1	0.58
(3,449)	1:104:A:VAL:HG13	1:104:A:VAL:HG22	2	0.58
(3,449)	1:104:A:VAL:HG11	1:104:A:VAL:HG23	4	0.58
(3,449)	1:104:A:VAL:HG13	1:104:A:VAL:HG21	7	0.58
(3,449)	1:104:A:VAL:HG12	1:104:A:VAL:HG22	8	0.58
(3,423)	1:61:A:LEU:HD13	1:25:A:THR:H	2	0.58
(3,300)	1:11:A:THR:HG22	1:13:A:TYR:HE1	10	0.58
(3,241)	1:17:A:PRO:HD3	1:16:A:GLN:HE22	6	0.58
(2,338)	1:126:A:LEU:HB3	1:77:A:ILE:HG12	4	0.58
(1,3753)	1:34:A:LYS:HD2	1:33:A:HIS:HE1	10	0.58
(1,3714)	1:84:A:TYR:HD1	1:87:A:ASN:HD22	6	0.58
(1,3714)	1:84:A:TYR:HD2	1:87:A:ASN:HD22	6	0.58
(1,3656)	1:32:A:TYR:HB2	1:27:A:LYS:H	6	0.58
(1,3590)	1:97:A:LYS:HB3	1:95:A:ASN:HD21	5	0.58
(1,3508)	1:40:A:LYS:HE3	1:41:A:GLU:H	8	0.58
(1,3460)	1:78:A:LEU:HD11	1:16:A:GLN:HE22	10	0.58
(1,3460)	1:78:A:LEU:HD12	1:16:A:GLN:HE22	10	0.58
(1,3460)	1:78:A:LEU:HD13	1:16:A:GLN:HE22	10	0.58
(1,3210)	1:36:A:LYS:H	1:36:A:LYS:HE3	6	0.58
(1,3011)	1:58:A:LYS:H	1:57:A:ASP:HB3	10	0.58
(1,2794)	1:81:A:ASN:H	1:80:A:LEU:HB3	8	0.58
(1,2719)	1:88:A:GLU:H	1:87:A:ASN:HB2	2	0.58
(1,2666)	1:93:A:SER:H	1:91:A:LEU:HG	6	0.58
(1,2591)	1:95:A:ASN:HB2	1:100:A:SER:H	1	0.58
(1,2536)	1:106:A:GLU:HG2	1:104:A:VAL:H	3	0.58
(1,1919)	1:115:A:VAL:HG11	1:115:A:VAL:HA	1	0.58
(1,1919)	1:115:A:VAL:HG12	1:115:A:VAL:HA	1	0.58
(1,1919)	1:115:A:VAL:HG13	1:115:A:VAL:HA	1	0.58
(1,1919)	1:115:A:VAL:HG11	1:115:A:VAL:HA	2	0.58
(1,1919)	1:115:A:VAL:HG12	1:115:A:VAL:HA	2	0.58
(1,1919)	1:115:A:VAL:HG13	1:115:A:VAL:HA	2	0.58
(1,1919)	1:115:A:VAL:HG11	1:115:A:VAL:HA	3	0.58
(1,1919)	1:115:A:VAL:HG12	1:115:A:VAL:HA	3	0.58
(1,1919)	1:115:A:VAL:HG13	1:115:A:VAL:HA	3	0.58
(1,1584)	1:120:A:TYR:HD1	1:94:A:ILE:HG21	3	0.58
(1,1584)	1:120:A:TYR:HD1	1:94:A:ILE:HG22	3	0.58
(1,1584)	1:120:A:TYR:HD1	1:94:A:ILE:HG23	3	0.58
(1,1584)	1:120:A:TYR:HD2	1:94:A:ILE:HG21	3	0.58
(1,1584)	1:120:A:TYR:HD2	1:94:A:ILE:HG22	3	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1584)	1:120:A:TYR:HD2	1:94:A:ILE:HG23	3	0.58
(1,1478)	1:126:A:LEU:HD21	1:88:A:GLU:HB3	4	0.58
(1,1478)	1:126:A:LEU:HD22	1:88:A:GLU:HB3	4	0.58
(1,1478)	1:126:A:LEU:HD23	1:88:A:GLU:HB3	4	0.58
(1,1273)	1:76:A:ARG:HG3	1:76:A:ARG:HA	10	0.58
(1,1265)	1:76:A:ARG:H	1:76:A:ARG:HG3	9	0.58
(1,1220)	1:73:A:PRO:HA	1:91:A:LEU:HB2	7	0.58
(1,1183)	1:71:A:PRO:HD3	1:70:A:ILE:HG21	2	0.58
(1,1183)	1:71:A:PRO:HD3	1:70:A:ILE:HG22	2	0.58
(1,1183)	1:71:A:PRO:HD3	1:70:A:ILE:HG23	2	0.58
(1,781)	1:48:A:ALA:HB1	1:39:A:VAL:HB	6	0.58
(1,781)	1:48:A:ALA:HB2	1:39:A:VAL:HB	6	0.58
(1,781)	1:48:A:ALA:HB3	1:39:A:VAL:HB	6	0.58
(1,685)	1:60:A:LYS:HE3	1:43:A:ILE:HD11	1	0.58
(1,685)	1:60:A:LYS:HE3	1:43:A:ILE:HD12	1	0.58
(1,685)	1:60:A:LYS:HE3	1:43:A:ILE:HD13	1	0.58
(1,397)	1:24:A:ILE:H	1:24:A:ILE:HG13	7	0.58
(1,33)	1:113:A:ARG:HA	1:113:A:ARG:HG3	7	0.58
(3,1172)	1:118:A:ILE:HG12	1:103:A:ILE:HG13	5	0.57
(3,1155)	1:118:A:ILE:HG23	1:119:A:GLN:H	1	0.57
(3,767)	1:77:A:ILE:H	1:77:A:ILE:HD11	8	0.57
(3,671)	1:40:A:LYS:HB3	1:41:A:GLU:H	4	0.57
(3,671)	1:40:A:LYS:HB3	1:41:A:GLU:H	7	0.57
(3,449)	1:104:A:VAL:HG11	1:104:A:VAL:HG22	3	0.57
(3,449)	1:104:A:VAL:HG13	1:104:A:VAL:HG22	9	0.57
(3,391)	1:114:A:ARG:H	1:114:A:ARG:HG3	5	0.57
(3,304)	1:94:A:ILE:HB	1:70:A:ILE:HG21	1	0.57
(1,3778)	1:45:A:LYS:HB3	1:46:A:TYR:HD1	6	0.57
(1,3778)	1:45:A:LYS:HB3	1:46:A:TYR:HD2	6	0.57
(1,3560)	1:10:A:ARG:HB2	1:81:A:ASN:HD21	10	0.57
(1,3460)	1:78:A:LEU:HD11	1:16:A:GLN:HE22	5	0.57
(1,3460)	1:78:A:LEU:HD12	1:16:A:GLN:HE22	5	0.57
(1,3460)	1:78:A:LEU:HD13	1:16:A:GLN:HE22	5	0.57
(1,3112)	1:46:A:TYR:HB3	1:46:A:TYR:H	8	0.57
(1,3112)	1:46:A:TYR:HB3	1:46:A:TYR:H	10	0.57
(1,2887)	1:70:A:ILE:H	1:70:A:ILE:HG13	2	0.57
(1,2749)	1:85:A:ARG:HG3	1:86:A:GLY:H	8	0.57
(1,2709)	1:103:A:ILE:HB	1:89:A:GLY:H	4	0.57
(1,2646)	1:95:A:ASN:HB3	1:95:A:ASN:H	5	0.57
(1,2450)	1:115:A:VAL:HG11	1:115:A:VAL:H	10	0.57
(1,2450)	1:115:A:VAL:HG12	1:115:A:VAL:H	10	0.57
(1,2450)	1:115:A:VAL:HG13	1:115:A:VAL:H	10	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2157)	1:117:A:GLY:HA3	1:100:A:SER:HB3	3	0.57
(1,1924)	1:113:A:ARG:HB3	1:115:A:VAL:HG11	8	0.57
(1,1924)	1:113:A:ARG:HB3	1:115:A:VAL:HG12	8	0.57
(1,1924)	1:113:A:ARG:HB3	1:115:A:VAL:HG13	8	0.57
(1,1919)	1:115:A:VAL:HG11	1:115:A:VAL:HA	5	0.57
(1,1919)	1:115:A:VAL:HG12	1:115:A:VAL:HA	5	0.57
(1,1919)	1:115:A:VAL:HG13	1:115:A:VAL:HA	5	0.57
(1,1919)	1:115:A:VAL:HG11	1:115:A:VAL:HA	7	0.57
(1,1919)	1:115:A:VAL:HG12	1:115:A:VAL:HA	7	0.57
(1,1919)	1:115:A:VAL:HG13	1:115:A:VAL:HA	7	0.57
(1,1868)	1:104:A:VAL:HG21	1:112:A:GLY:HA3	3	0.57
(1,1868)	1:104:A:VAL:HG22	1:112:A:GLY:HA3	3	0.57
(1,1868)	1:104:A:VAL:HG23	1:112:A:GLY:HA3	3	0.57
(1,1265)	1:76:A:ARG:H	1:76:A:ARG:HG3	7	0.57
(1,1256)	1:90:A:THR:HG21	1:74:A:GLY:HA3	5	0.57
(1,1256)	1:90:A:THR:HG22	1:74:A:GLY:HA3	5	0.57
(1,1256)	1:90:A:THR:HG23	1:74:A:GLY:HA3	5	0.57
(1,1183)	1:71:A:PRO:HD3	1:70:A:ILE:HG21	1	0.57
(1,1183)	1:71:A:PRO:HD3	1:70:A:ILE:HG22	1	0.57
(1,1183)	1:71:A:PRO:HD3	1:70:A:ILE:HG23	1	0.57
(1,781)	1:48:A:ALA:HB1	1:39:A:VAL:HB	1	0.57
(1,781)	1:48:A:ALA:HB2	1:39:A:VAL:HB	1	0.57
(1,781)	1:48:A:ALA:HB3	1:39:A:VAL:HB	1	0.57
(1,711)	1:45:A:LYS:H	1:44:A:ASP:HB2	2	0.57
(1,577)	1:15:A:LEU:HD21	1:39:A:VAL:HG11	6	0.57
(1,577)	1:15:A:LEU:HD21	1:39:A:VAL:HG12	6	0.57
(1,577)	1:15:A:LEU:HD21	1:39:A:VAL:HG13	6	0.57
(1,577)	1:15:A:LEU:HD22	1:39:A:VAL:HG11	6	0.57
(1,577)	1:15:A:LEU:HD22	1:39:A:VAL:HG12	6	0.57
(1,577)	1:15:A:LEU:HD22	1:39:A:VAL:HG13	6	0.57
(1,577)	1:15:A:LEU:HD23	1:39:A:VAL:HG11	6	0.57
(1,577)	1:15:A:LEU:HD23	1:39:A:VAL:HG12	6	0.57
(1,577)	1:15:A:LEU:HD23	1:39:A:VAL:HG13	6	0.57
(1,477)	1:31:A:LYS:HB2	1:31:A:LYS:HA	1	0.57
(1,397)	1:24:A:ILE:H	1:24:A:ILE:HG13	2	0.57
(1,330)	1:31:A:LYS:HE3	1:31:A:LYS:HG3	10	0.57
(1,33)	1:113:A:ARG:HA	1:113:A:ARG:HG3	3	0.57
(3,1173)	1:84:A:TYR:HE2	1:113:A:ARG:HG2	2	0.56
(3,1155)	1:118:A:ILE:HG22	1:119:A:GLN:H	9	0.56
(3,1093)	1:70:A:ILE:HD11	1:123:A:ILE:H	9	0.56
(3,1042)	1:19:A:ILE:HA	1:127:A:ALA:HA	3	0.56
(3,1036)	1:21:A:VAL:HG12	1:22:A:LYS:H	2	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1036)	1:21:A:VAL:HG11	1:22:A:LYS:H	5	0.56
(3,936)	1:77:A:ILE:HG13	1:103:A:ILE:HB	5	0.56
(3,857)	1:114:A:ARG:HB3	1:115:A:VAL:HG11	10	0.56
(3,603)	1:25:A:THR:HG22	1:23:A:ILE:HD13	1	0.56
(3,561)	1:40:A:LYS:HE3	1:40:A:LYS:HB2	3	0.56
(3,426)	1:119:A:GLN:HA	1:100:A:SER:H	6	0.56
(3,414)	1:22:A:LYS:HD2	1:34:A:LYS:HA	2	0.56
(3,414)	1:34:A:LYS:HA	1:34:A:LYS:HD2	6	0.56
(3,403)	1:113:A:ARG:HB2	1:105:A:ILE:H	5	0.56
(3,403)	1:113:A:ARG:HB2	1:105:A:ILE:H	6	0.56
(3,399)	1:43:A:ILE:HG22	1:44:A:ASP:HA	3	0.56
(3,211)	1:118:A:ILE:H	1:116:A:GLU:HB3	9	0.56
(3,32)	1:22:A:LYS:HD2	1:34:A:LYS:HA	4	0.56
(2,398)	1:13:A:TYR:HB3	1:15:A:LEU:HD21	6	0.56
(2,398)	1:13:A:TYR:HB3	1:15:A:LEU:HD22	6	0.56
(2,398)	1:13:A:TYR:HB3	1:15:A:LEU:HD23	6	0.56
(1,3697)	1:68:A:THR:H	1:14:A:TRP:HE1	10	0.56
(1,3443)	1:63:A:GLN:HG3	1:14:A:TRP:HE1	6	0.56
(1,3421)	1:10:A:ARG:H	1:82:A:GLY:HA3	8	0.56
(1,2794)	1:81:A:ASN:H	1:80:A:LEU:HB3	5	0.56
(1,2735)	1:85:A:ARG:HB3	1:87:A:ASN:H	3	0.56
(1,2646)	1:95:A:ASN:HB3	1:95:A:ASN:H	8	0.56
(1,2450)	1:115:A:VAL:HG11	1:115:A:VAL:H	4	0.56
(1,2450)	1:115:A:VAL:HG12	1:115:A:VAL:H	4	0.56
(1,2450)	1:115:A:VAL:HG13	1:115:A:VAL:H	4	0.56
(1,2238)	1:76:A:ARG:HD2	1:90:A:THR:HA	10	0.56
(1,2223)	1:119:A:GLN:H	1:100:A:SER:HB2	2	0.56
(1,1584)	1:120:A:TYR:HD1	1:94:A:ILE:HG21	9	0.56
(1,1584)	1:120:A:TYR:HD1	1:94:A:ILE:HG22	9	0.56
(1,1584)	1:120:A:TYR:HD1	1:94:A:ILE:HG23	9	0.56
(1,1584)	1:120:A:TYR:HD2	1:94:A:ILE:HG21	9	0.56
(1,1584)	1:120:A:TYR:HD2	1:94:A:ILE:HG22	9	0.56
(1,1584)	1:120:A:TYR:HD2	1:94:A:ILE:HG23	9	0.56
(1,1541)	1:93:A:SER:H	1:92:A:GLU:HG3	1	0.56
(1,1220)	1:73:A:PRO:HA	1:91:A:LEU:HB2	4	0.56
(1,1214)	1:73:A:PRO:HD3	1:72:A:ALA:HB1	5	0.56
(1,1214)	1:73:A:PRO:HD3	1:72:A:ALA:HB2	5	0.56
(1,1214)	1:73:A:PRO:HD3	1:72:A:ALA:HB3	5	0.56
(1,1095)	1:73:A:PRO:HG2	1:91:A:LEU:HD11	5	0.56
(1,1095)	1:73:A:PRO:HG2	1:91:A:LEU:HD12	5	0.56
(1,1095)	1:73:A:PRO:HG2	1:91:A:LEU:HD13	5	0.56
(1,1037)	1:63:A:GLN:HG2	1:64:A:THR:HA	3	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1037)	1:63:A:GLN:HG2	1:64:A:THR:HA	4	0.56
(1,834)	1:52:A:MET:HG2	1:59:A:LEU:HG	9	0.56
(1,717)	1:45:A:LYS:HA	1:45:A:LYS:HG3	1	0.56
(1,477)	1:31:A:LYS:HB2	1:31:A:LYS:HA	5	0.56
(1,451)	1:28:A:LEU:H	1:28:A:LEU:HD11	6	0.56
(1,451)	1:28:A:LEU:H	1:28:A:LEU:HD12	6	0.56
(1,451)	1:28:A:LEU:H	1:28:A:LEU:HD13	6	0.56
(1,210)	1:18:A:GLU:HA	1:18:A:GLU:HG2	4	0.56
(1,115)	1:15:A:LEU:HD11	1:15:A:LEU:HA	1	0.56
(1,115)	1:15:A:LEU:HD12	1:15:A:LEU:HA	1	0.56
(1,115)	1:15:A:LEU:HD13	1:15:A:LEU:HA	1	0.56
(1,115)	1:15:A:LEU:HD11	1:15:A:LEU:HA	3	0.56
(1,115)	1:15:A:LEU:HD12	1:15:A:LEU:HA	3	0.56
(1,115)	1:15:A:LEU:HD13	1:15:A:LEU:HA	3	0.56
(1,115)	1:15:A:LEU:HD11	1:15:A:LEU:HA	6	0.56
(1,115)	1:15:A:LEU:HD12	1:15:A:LEU:HA	6	0.56
(1,115)	1:15:A:LEU:HD13	1:15:A:LEU:HA	6	0.56
(1,115)	1:15:A:LEU:HD11	1:15:A:LEU:HA	8	0.56
(1,115)	1:15:A:LEU:HD12	1:15:A:LEU:HA	8	0.56
(1,115)	1:15:A:LEU:HD13	1:15:A:LEU:HA	8	0.56
(1,115)	1:15:A:LEU:HD11	1:15:A:LEU:HA	10	0.56
(1,115)	1:15:A:LEU:HD12	1:15:A:LEU:HA	10	0.56
(1,115)	1:15:A:LEU:HD13	1:15:A:LEU:HA	10	0.56
(1,42)	1:8:A:THR:HA	1:9:A:ALA:H	9	0.56
(3,1173)	1:84:A:TYR:HE1	1:110:A:LEU:HB2	9	0.55
(3,1172)	1:118:A:ILE:HG12	1:103:A:ILE:HG13	7	0.55
(3,1155)	1:118:A:ILE:HG22	1:119:A:GLN:H	10	0.55
(3,1144)	1:45:A:LYS:H	1:45:A:LYS:HD2	2	0.55
(3,1108)	1:53:A:ILE:HB	1:56:A:GLY:H	2	0.55
(3,1093)	1:70:A:ILE:HD11	1:123:A:ILE:H	2	0.55
(3,863)	1:113:A:ARG:HD3	1:103:A:ILE:HD13	4	0.55
(3,777)	1:18:A:GLU:H	1:38:A:ILE:HG23	3	0.55
(3,582)	1:118:A:ILE:HD13	1:118:A:ILE:H	2	0.55
(3,399)	1:43:A:ILE:HG21	1:44:A:ASP:HA	10	0.55
(3,391)	1:114:A:ARG:H	1:114:A:ARG:HG3	8	0.55
(3,187)	1:16:A:GLN:H	1:14:A:TRP:HZ3	3	0.55
(1,3446)	1:68:A:THR:HG21	1:14:A:TRP:HE1	2	0.55
(1,3446)	1:68:A:THR:HG22	1:14:A:TRP:HE1	2	0.55
(1,3446)	1:68:A:THR:HG23	1:14:A:TRP:HE1	2	0.55
(1,3210)	1:36:A:LYS:H	1:36:A:LYS:HE2	2	0.55
(1,2887)	1:70:A:ILE:H	1:70:A:ILE:HG13	3	0.55
(1,2887)	1:70:A:ILE:H	1:70:A:ILE:HG13	9	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2841)	1:111:A:LYS:HE3	1:112:A:GLY:H	2	0.55
(1,2751)	1:78:A:LEU:HD21	1:86:A:GLY:H	6	0.55
(1,2751)	1:78:A:LEU:HD22	1:86:A:GLY:H	6	0.55
(1,2751)	1:78:A:LEU:HD23	1:86:A:GLY:H	6	0.55
(1,2735)	1:85:A:ARG:HB3	1:87:A:ASN:H	4	0.55
(1,2658)	1:91:A:LEU:HD11	1:94:A:ILE:H	1	0.55
(1,2658)	1:91:A:LEU:HD12	1:94:A:ILE:H	1	0.55
(1,2658)	1:91:A:LEU:HD13	1:94:A:ILE:H	1	0.55
(1,2473)	1:105:A:ILE:HD11	1:111:A:LYS:H	6	0.55
(1,2473)	1:105:A:ILE:HD12	1:111:A:LYS:H	6	0.55
(1,2473)	1:105:A:ILE:HD13	1:111:A:LYS:H	6	0.55
(1,2450)	1:115:A:VAL:HG11	1:115:A:VAL:H	6	0.55
(1,2450)	1:115:A:VAL:HG12	1:115:A:VAL:H	6	0.55
(1,2450)	1:115:A:VAL:HG13	1:115:A:VAL:H	6	0.55
(1,2450)	1:115:A:VAL:HG11	1:115:A:VAL:H	8	0.55
(1,2450)	1:115:A:VAL:HG12	1:115:A:VAL:H	8	0.55
(1,2450)	1:115:A:VAL:HG13	1:115:A:VAL:H	8	0.55
(1,2158)	1:117:A:GLY:HA3	1:100:A:SER:HB2	4	0.55
(1,1938)	1:116:A:GLU:H	1:116:A:GLU:HG2	9	0.55
(1,1823)	1:110:A:LEU:H	1:109:A:PRO:HG2	9	0.55
(1,1520)	1:91:A:LEU:HD11	1:71:A:PRO:HD3	6	0.55
(1,1520)	1:91:A:LEU:HD12	1:71:A:PRO:HD3	6	0.55
(1,1520)	1:91:A:LEU:HD13	1:71:A:PRO:HD3	6	0.55
(1,1481)	1:88:A:GLU:HG3	1:88:A:GLU:H	1	0.55
(1,1448)	1:85:A:ARG:HD2	1:81:A:ASN:HA	5	0.55
(1,1274)	1:77:A:ILE:HG12	1:76:A:ARG:HA	2	0.55
(1,1095)	1:73:A:PRO:HG2	1:91:A:LEU:HD11	4	0.55
(1,1095)	1:73:A:PRO:HG2	1:91:A:LEU:HD12	4	0.55
(1,1095)	1:73:A:PRO:HG2	1:91:A:LEU:HD13	4	0.55
(1,751)	1:46:A:TYR:HA	1:63:A:GLN:HB2	8	0.55
(1,717)	1:45:A:LYS:HA	1:45:A:LYS:HG3	10	0.55
(1,669)	1:43:A:ILE:HG12	1:43:A:ILE:HA	5	0.55
(1,578)	1:42:A:VAL:HG11	1:39:A:VAL:HG21	6	0.55
(1,578)	1:42:A:VAL:HG11	1:39:A:VAL:HG22	6	0.55
(1,578)	1:42:A:VAL:HG11	1:39:A:VAL:HG23	6	0.55
(1,578)	1:42:A:VAL:HG12	1:39:A:VAL:HG21	6	0.55
(1,578)	1:42:A:VAL:HG12	1:39:A:VAL:HG22	6	0.55
(1,578)	1:42:A:VAL:HG12	1:39:A:VAL:HG23	6	0.55
(1,578)	1:42:A:VAL:HG13	1:39:A:VAL:HG21	6	0.55
(1,578)	1:42:A:VAL:HG13	1:39:A:VAL:HG22	6	0.55
(1,578)	1:42:A:VAL:HG13	1:39:A:VAL:HG23	6	0.55
(1,577)	1:15:A:LEU:HD21	1:39:A:VAL:HG11	7	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,577)	1:15:A:LEU:HD21	1:39:A:VAL:HG12	7	0.55
(1,577)	1:15:A:LEU:HD21	1:39:A:VAL:HG13	7	0.55
(1,577)	1:15:A:LEU:HD22	1:39:A:VAL:HG11	7	0.55
(1,577)	1:15:A:LEU:HD22	1:39:A:VAL:HG12	7	0.55
(1,577)	1:15:A:LEU:HD22	1:39:A:VAL:HG13	7	0.55
(1,577)	1:15:A:LEU:HD23	1:39:A:VAL:HG11	7	0.55
(1,577)	1:15:A:LEU:HD23	1:39:A:VAL:HG12	7	0.55
(1,577)	1:15:A:LEU:HD23	1:39:A:VAL:HG13	7	0.55
(1,531)	1:53:A:ILE:H	1:37:A:ALA:HB1	8	0.55
(1,531)	1:53:A:ILE:H	1:37:A:ALA:HB2	8	0.55
(1,531)	1:53:A:ILE:H	1:37:A:ALA:HB3	8	0.55
(1,531)	1:53:A:ILE:H	1:37:A:ALA:HB1	9	0.55
(1,531)	1:53:A:ILE:H	1:37:A:ALA:HB2	9	0.55
(1,531)	1:53:A:ILE:H	1:37:A:ALA:HB3	9	0.55
(1,142)	1:15:A:LEU:HD11	1:15:A:LEU:HA	1	0.55
(1,142)	1:15:A:LEU:HD12	1:15:A:LEU:HA	1	0.55
(1,142)	1:15:A:LEU:HD13	1:15:A:LEU:HA	1	0.55
(1,142)	1:15:A:LEU:HD11	1:15:A:LEU:HA	3	0.55
(1,142)	1:15:A:LEU:HD12	1:15:A:LEU:HA	3	0.55
(1,142)	1:15:A:LEU:HD13	1:15:A:LEU:HA	3	0.55
(1,142)	1:15:A:LEU:HD11	1:15:A:LEU:HA	6	0.55
(1,142)	1:15:A:LEU:HD12	1:15:A:LEU:HA	6	0.55
(1,142)	1:15:A:LEU:HD13	1:15:A:LEU:HA	6	0.55
(1,142)	1:15:A:LEU:HD11	1:15:A:LEU:HA	8	0.55
(1,142)	1:15:A:LEU:HD12	1:15:A:LEU:HA	8	0.55
(1,142)	1:15:A:LEU:HD13	1:15:A:LEU:HA	8	0.55
(1,142)	1:15:A:LEU:HD11	1:15:A:LEU:HA	10	0.55
(1,142)	1:15:A:LEU:HD12	1:15:A:LEU:HA	10	0.55
(1,142)	1:15:A:LEU:HD13	1:15:A:LEU:HA	10	0.55
(1,115)	1:15:A:LEU:HD11	1:15:A:LEU:HA	2	0.55
(1,115)	1:15:A:LEU:HD12	1:15:A:LEU:HA	2	0.55
(1,115)	1:15:A:LEU:HD13	1:15:A:LEU:HA	2	0.55
(1,115)	1:15:A:LEU:HD11	1:15:A:LEU:HA	4	0.55
(1,115)	1:15:A:LEU:HD12	1:15:A:LEU:HA	4	0.55
(1,115)	1:15:A:LEU:HD13	1:15:A:LEU:HA	4	0.55
(1,115)	1:15:A:LEU:HD11	1:15:A:LEU:HA	7	0.55
(1,115)	1:15:A:LEU:HD12	1:15:A:LEU:HA	7	0.55
(1,115)	1:15:A:LEU:HD13	1:15:A:LEU:HA	7	0.55
(1,82)	1:122:A:ASP:HA	1:81:A:ASN:HB3	8	0.55
(1,33)	1:113:A:ARG:HA	1:113:A:ARG:HG3	4	0.55
(1,33)	1:113:A:ARG:HA	1:113:A:ARG:HG3	6	0.55
(1,33)	1:113:A:ARG:HA	1:113:A:ARG:HG3	9	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,33)	1:113:A:ARG:HA	1:113:A:ARG:HG3	10	0.55
(3,1183)	1:55:A:SER:HB3	1:57:A:ASP:HB2	2	0.54
(3,1155)	1:118:A:ILE:HG22	1:119:A:GLN:H	4	0.54
(3,1049)	1:109:A:PRO:HA	1:109:A:PRO:HG2	5	0.54
(3,975)	1:77:A:ILE:HB	1:123:A:ILE:HG21	6	0.54
(3,941)	1:12:A:ASP:HA	1:12:A:ASP:HB3	10	0.54
(3,878)	1:14:A:TRP:H	1:14:A:TRP:HE1	8	0.54
(3,841)	1:80:A:LEU:HD23	1:80:A:LEU:H	7	0.54
(3,800)	1:52:A:MET:H	1:52:A:MET:HG3	4	0.54
(3,671)	1:40:A:LYS:HB3	1:41:A:GLU:H	3	0.54
(3,401)	1:15:A:LEU:HD23	1:80:A:LEU:HD13	5	0.54
(3,391)	1:114:A:ARG:H	1:114:A:ARG:HG3	1	0.54
(3,381)	1:45:A:LYS:H	1:44:A:ASP:HB3	7	0.54
(3,378)	1:89:A:GLY:H	1:103:A:ILE:HD12	3	0.54
(3,378)	1:89:A:GLY:H	1:103:A:ILE:HD12	9	0.54
(3,305)	1:118:A:ILE:HG13	1:103:A:ILE:HG13	6	0.54
(3,148)	1:73:A:PRO:HG2	1:93:A:SER:HB3	4	0.54
(2,142)	1:10:A:ARG:HA	1:82:A:GLY:HA3	6	0.54
(1,3697)	1:68:A:THR:H	1:14:A:TRP:HE1	5	0.54
(1,3648)	1:16:A:GLN:HE22	1:80:A:LEU:HG	5	0.54
(1,3545)	1:66:A:LEU:H	1:63:A:GLN:HG2	1	0.54
(1,3444)	1:63:A:GLN:HB3	1:14:A:TRP:HE1	3	0.54
(1,3322)	1:22:A:LYS:H	1:67:A:GLU:HB2	7	0.54
(1,2888)	1:70:A:ILE:H	1:69:A:VAL:HG21	4	0.54
(1,2888)	1:70:A:ILE:H	1:69:A:VAL:HG22	4	0.54
(1,2888)	1:70:A:ILE:H	1:69:A:VAL:HG23	4	0.54
(1,2887)	1:70:A:ILE:H	1:70:A:ILE:HG13	7	0.54
(1,2841)	1:111:A:LYS:HE3	1:112:A:GLY:H	5	0.54
(1,2732)	1:84:A:TYR:HB2	1:87:A:ASN:H	6	0.54
(1,2330)	1:125:A:LYS:HE2	1:125:A:LYS:H	3	0.54
(1,2244)	1:15:A:LEU:HB2	1:48:A:ALA:HB1	9	0.54
(1,2244)	1:15:A:LEU:HB2	1:48:A:ALA:HB2	9	0.54
(1,2244)	1:15:A:LEU:HB2	1:48:A:ALA:HB3	9	0.54
(1,2244)	1:15:A:LEU:HB2	1:48:A:ALA:HB1	10	0.54
(1,2244)	1:15:A:LEU:HB2	1:48:A:ALA:HB2	10	0.54
(1,2244)	1:15:A:LEU:HB2	1:48:A:ALA:HB3	10	0.54
(1,1996)	1:121:A:GLU:H	1:121:A:GLU:HB2	4	0.54
(1,1996)	1:121:A:GLU:H	1:121:A:GLU:HB2	7	0.54
(1,1682)	1:47:A:THR:HG21	1:43:A:ILE:HB	2	0.54
(1,1682)	1:47:A:THR:HG22	1:43:A:ILE:HB	2	0.54
(1,1682)	1:47:A:THR:HG23	1:43:A:ILE:HB	2	0.54
(1,1541)	1:93:A:SER:H	1:92:A:GLU:HG3	2	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1541)	1:93:A:SER:H	1:92:A:GLU:HG3	3	0.54
(1,1306)	1:77:A:ILE:HD11	1:90:A:THR:HA	1	0.54
(1,1306)	1:77:A:ILE:HD12	1:90:A:THR:HA	1	0.54
(1,1306)	1:77:A:ILE:HD13	1:90:A:THR:HA	1	0.54
(1,1214)	1:73:A:PRO:HD3	1:72:A:ALA:HB1	2	0.54
(1,1214)	1:73:A:PRO:HD3	1:72:A:ALA:HB2	2	0.54
(1,1214)	1:73:A:PRO:HD3	1:72:A:ALA:HB3	2	0.54
(1,1062)	1:65:A:HIS:HB3	1:61:A:LEU:HB2	2	0.54
(1,717)	1:45:A:LYS:HA	1:45:A:LYS:HG3	5	0.54
(1,717)	1:45:A:LYS:HA	1:45:A:LYS:HG3	6	0.54
(1,669)	1:43:A:ILE:HG12	1:43:A:ILE:HA	1	0.54
(1,669)	1:43:A:ILE:HG12	1:43:A:ILE:HA	2	0.54
(1,669)	1:43:A:ILE:HG12	1:43:A:ILE:HA	4	0.54
(1,669)	1:43:A:ILE:HG12	1:43:A:ILE:HA	9	0.54
(1,669)	1:43:A:ILE:HG12	1:43:A:ILE:HA	10	0.54
(1,578)	1:42:A:VAL:HG11	1:39:A:VAL:HG21	1	0.54
(1,578)	1:42:A:VAL:HG11	1:39:A:VAL:HG22	1	0.54
(1,578)	1:42:A:VAL:HG11	1:39:A:VAL:HG23	1	0.54
(1,578)	1:42:A:VAL:HG12	1:39:A:VAL:HG21	1	0.54
(1,578)	1:42:A:VAL:HG12	1:39:A:VAL:HG22	1	0.54
(1,578)	1:42:A:VAL:HG12	1:39:A:VAL:HG23	1	0.54
(1,578)	1:42:A:VAL:HG13	1:39:A:VAL:HG21	1	0.54
(1,578)	1:42:A:VAL:HG13	1:39:A:VAL:HG22	1	0.54
(1,578)	1:42:A:VAL:HG13	1:39:A:VAL:HG23	1	0.54
(1,578)	1:42:A:VAL:HG11	1:39:A:VAL:HG21	4	0.54
(1,578)	1:42:A:VAL:HG11	1:39:A:VAL:HG22	4	0.54
(1,578)	1:42:A:VAL:HG11	1:39:A:VAL:HG23	4	0.54
(1,578)	1:42:A:VAL:HG12	1:39:A:VAL:HG21	4	0.54
(1,578)	1:42:A:VAL:HG12	1:39:A:VAL:HG22	4	0.54
(1,578)	1:42:A:VAL:HG12	1:39:A:VAL:HG23	4	0.54
(1,578)	1:42:A:VAL:HG13	1:39:A:VAL:HG21	4	0.54
(1,578)	1:42:A:VAL:HG13	1:39:A:VAL:HG22	4	0.54
(1,578)	1:42:A:VAL:HG13	1:39:A:VAL:HG23	4	0.54
(1,441)	1:28:A:LEU:HD21	1:28:A:LEU:HA	9	0.54
(1,441)	1:28:A:LEU:HD22	1:28:A:LEU:HA	9	0.54
(1,441)	1:28:A:LEU:HD23	1:28:A:LEU:HA	9	0.54
(1,390)	1:24:A:ILE:HD11	1:67:A:GLU:HB3	6	0.54
(1,390)	1:24:A:ILE:HD12	1:67:A:GLU:HB3	6	0.54
(1,390)	1:24:A:ILE:HD13	1:67:A:GLU:HB3	6	0.54
(1,142)	1:15:A:LEU:HD11	1:15:A:LEU:HA	2	0.54
(1,142)	1:15:A:LEU:HD12	1:15:A:LEU:HA	2	0.54
(1,142)	1:15:A:LEU:HD13	1:15:A:LEU:HA	2	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,142)	1:15:A:LEU:HD11	1:15:A:LEU:HA	4	0.54
(1,142)	1:15:A:LEU:HD12	1:15:A:LEU:HA	4	0.54
(1,142)	1:15:A:LEU:HD13	1:15:A:LEU:HA	4	0.54
(1,142)	1:15:A:LEU:HD11	1:15:A:LEU:HA	7	0.54
(1,142)	1:15:A:LEU:HD12	1:15:A:LEU:HA	7	0.54
(1,142)	1:15:A:LEU:HD13	1:15:A:LEU:HA	7	0.54
(1,138)	1:15:A:LEU:H	1:15:A:LEU:HD11	2	0.54
(1,138)	1:15:A:LEU:H	1:15:A:LEU:HD12	2	0.54
(1,138)	1:15:A:LEU:H	1:15:A:LEU:HD13	2	0.54
(1,115)	1:15:A:LEU:HD11	1:15:A:LEU:HA	5	0.54
(1,115)	1:15:A:LEU:HD12	1:15:A:LEU:HA	5	0.54
(1,115)	1:15:A:LEU:HD13	1:15:A:LEU:HA	5	0.54
(1,115)	1:15:A:LEU:HD11	1:15:A:LEU:HA	9	0.54
(1,115)	1:15:A:LEU:HD12	1:15:A:LEU:HA	9	0.54
(1,115)	1:15:A:LEU:HD13	1:15:A:LEU:HA	9	0.54
(1,33)	1:113:A:ARG:HA	1:113:A:ARG:HG3	8	0.54
(3,1097)	1:82:A:GLY:H	1:11:A:THR:HG23	1	0.53
(3,1097)	1:82:A:GLY:H	1:11:A:THR:HG23	10	0.53
(3,1049)	1:109:A:PRO:HA	1:109:A:PRO:HG2	10	0.53
(3,961)	1:30:A:GLU:HG2	1:29:A:GLY:H	8	0.53
(3,849)	1:26:A:LYS:HB3	1:33:A:HIS:H	5	0.53
(3,849)	1:26:A:LYS:HB3	1:33:A:HIS:H	7	0.53
(3,795)	1:48:A:ALA:H	1:63:A:GLN:HA	1	0.53
(3,634)	1:103:A:ILE:HG12	1:104:A:VAL:H	5	0.53
(3,451)	1:121:A:GLU:H	1:118:A:ILE:HG23	10	0.53
(3,391)	1:114:A:ARG:H	1:114:A:ARG:HG3	9	0.53
(3,371)	1:20:A:ILE:HB	1:21:A:VAL:H	7	0.53
(3,366)	1:42:A:VAL:HG23	1:16:A:GLN:HG2	3	0.53
(3,21)	1:126:A:LEU:HD22	1:88:A:GLU:HG2	1	0.53
(2,11)	1:9:A:ALA:HA	1:14:A:TRP:HA	10	0.53
(1,3849)	1:84:A:TYR:HE1	1:105:A:ILE:HD11	6	0.53
(1,3849)	1:84:A:TYR:HE1	1:105:A:ILE:HD12	6	0.53
(1,3849)	1:84:A:TYR:HE1	1:105:A:ILE:HD13	6	0.53
(1,3849)	1:84:A:TYR:HE2	1:105:A:ILE:HD11	6	0.53
(1,3849)	1:84:A:TYR:HE2	1:105:A:ILE:HD12	6	0.53
(1,3849)	1:84:A:TYR:HE2	1:105:A:ILE:HD13	6	0.53
(1,3758)	1:27:A:LYS:HD3	1:65:A:HIS:HE1	5	0.53
(1,3715)	1:84:A:TYR:HE1	1:87:A:ASN:HD22	6	0.53
(1,3715)	1:84:A:TYR:HE2	1:87:A:ASN:HD22	6	0.53
(1,3545)	1:66:A:LEU:H	1:63:A:GLN:HG2	6	0.53
(1,3399)	1:11:A:THR:H	1:11:A:THR:HG21	4	0.53
(1,3399)	1:11:A:THR:H	1:11:A:THR:HG22	4	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3399)	1:11:A:THR:H	1:11:A:THR:HG23	4	0.53
(1,3322)	1:22:A:LYS:H	1:67:A:GLU:HB2	8	0.53
(1,2888)	1:70:A:ILE:H	1:69:A:VAL:HG21	8	0.53
(1,2888)	1:70:A:ILE:H	1:69:A:VAL:HG22	8	0.53
(1,2888)	1:70:A:ILE:H	1:69:A:VAL:HG23	8	0.53
(1,2887)	1:70:A:ILE:H	1:70:A:ILE:HG13	1	0.53
(1,2887)	1:70:A:ILE:H	1:70:A:ILE:HG13	6	0.53
(1,2709)	1:103:A:ILE:HB	1:89:A:GLY:H	3	0.53
(1,2646)	1:95:A:ASN:HB3	1:95:A:ASN:H	6	0.53
(1,2589)	1:95:A:ASN:HB3	1:100:A:SER:H	8	0.53
(1,2450)	1:115:A:VAL:HG11	1:115:A:VAL:H	9	0.53
(1,2450)	1:115:A:VAL:HG12	1:115:A:VAL:H	9	0.53
(1,2450)	1:115:A:VAL:HG13	1:115:A:VAL:H	9	0.53
(1,2287)	1:20:A:ILE:HA	1:38:A:ILE:HG13	1	0.53
(1,2244)	1:15:A:LEU:HB2	1:48:A:ALA:HB1	7	0.53
(1,2244)	1:15:A:LEU:HB2	1:48:A:ALA:HB2	7	0.53
(1,2244)	1:15:A:LEU:HB2	1:48:A:ALA:HB3	7	0.53
(1,2158)	1:117:A:GLY:HA3	1:100:A:SER:HB2	7	0.53
(1,1996)	1:121:A:GLU:H	1:121:A:GLU:HB2	5	0.53
(1,1996)	1:121:A:GLU:H	1:121:A:GLU:HB2	9	0.53
(1,1996)	1:121:A:GLU:H	1:121:A:GLU:HB2	10	0.53
(1,1714)	1:103:A:ILE:HG21	1:123:A:ILE:HG21	6	0.53
(1,1714)	1:103:A:ILE:HG21	1:123:A:ILE:HG22	6	0.53
(1,1714)	1:103:A:ILE:HG21	1:123:A:ILE:HG23	6	0.53
(1,1714)	1:103:A:ILE:HG22	1:123:A:ILE:HG21	6	0.53
(1,1714)	1:103:A:ILE:HG22	1:123:A:ILE:HG22	6	0.53
(1,1714)	1:103:A:ILE:HG22	1:123:A:ILE:HG23	6	0.53
(1,1714)	1:103:A:ILE:HG23	1:123:A:ILE:HG21	6	0.53
(1,1714)	1:103:A:ILE:HG23	1:123:A:ILE:HG22	6	0.53
(1,1714)	1:103:A:ILE:HG23	1:123:A:ILE:HG23	6	0.53
(1,1584)	1:120:A:TYR:HD1	1:94:A:ILE:HG21	1	0.53
(1,1584)	1:120:A:TYR:HD1	1:94:A:ILE:HG22	1	0.53
(1,1584)	1:120:A:TYR:HD1	1:94:A:ILE:HG23	1	0.53
(1,1584)	1:120:A:TYR:HD2	1:94:A:ILE:HG21	1	0.53
(1,1584)	1:120:A:TYR:HD2	1:94:A:ILE:HG22	1	0.53
(1,1584)	1:120:A:TYR:HD2	1:94:A:ILE:HG23	1	0.53
(1,1541)	1:93:A:SER:H	1:92:A:GLU:HG3	8	0.53
(1,1521)	1:73:A:PRO:HD2	1:91:A:LEU:HD11	9	0.53
(1,1521)	1:73:A:PRO:HD2	1:91:A:LEU:HD12	9	0.53
(1,1521)	1:73:A:PRO:HD2	1:91:A:LEU:HD13	9	0.53
(1,1520)	1:91:A:LEU:HD11	1:71:A:PRO:HD3	2	0.53
(1,1520)	1:91:A:LEU:HD12	1:71:A:PRO:HD3	2	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1520)	1:91:A:LEU:HD13	1:71:A:PRO:HD3	2	0.53
(1,1274)	1:77:A:ILE:HG12	1:76:A:ARG:HA	10	0.53
(1,1214)	1:73:A:PRO:HD3	1:72:A:ALA:HB1	4	0.53
(1,1214)	1:73:A:PRO:HD3	1:72:A:ALA:HB2	4	0.53
(1,1214)	1:73:A:PRO:HD3	1:72:A:ALA:HB3	4	0.53
(1,781)	1:48:A:ALA:HB1	1:39:A:VAL:HB	3	0.53
(1,781)	1:48:A:ALA:HB2	1:39:A:VAL:HB	3	0.53
(1,781)	1:48:A:ALA:HB3	1:39:A:VAL:HB	3	0.53
(1,717)	1:45:A:LYS:HA	1:45:A:LYS:HG3	3	0.53
(1,717)	1:45:A:LYS:HA	1:45:A:LYS:HG3	7	0.53
(1,711)	1:45:A:LYS:H	1:44:A:ASP:HB2	5	0.53
(1,703)	1:43:A:ILE:H	1:43:A:ILE:HG12	3	0.53
(1,669)	1:43:A:ILE:HG12	1:43:A:ILE:HA	6	0.53
(1,531)	1:53:A:ILE:H	1:37:A:ALA:HB1	2	0.53
(1,531)	1:53:A:ILE:H	1:37:A:ALA:HB2	2	0.53
(1,531)	1:53:A:ILE:H	1:37:A:ALA:HB3	2	0.53
(1,531)	1:53:A:ILE:H	1:37:A:ALA:HB1	3	0.53
(1,531)	1:53:A:ILE:H	1:37:A:ALA:HB2	3	0.53
(1,531)	1:53:A:ILE:H	1:37:A:ALA:HB3	3	0.53
(1,440)	1:111:A:LYS:HD2	1:107:A:THR:HA	3	0.53
(1,397)	1:24:A:ILE:H	1:24:A:ILE:HG13	5	0.53
(1,169)	1:80:A:LEU:HD21	1:16:A:GLN:HG3	4	0.53
(1,169)	1:80:A:LEU:HD22	1:16:A:GLN:HG3	4	0.53
(1,169)	1:80:A:LEU:HD23	1:16:A:GLN:HG3	4	0.53
(1,142)	1:15:A:LEU:HD11	1:15:A:LEU:HA	5	0.53
(1,142)	1:15:A:LEU:HD12	1:15:A:LEU:HA	5	0.53
(1,142)	1:15:A:LEU:HD13	1:15:A:LEU:HA	5	0.53
(1,142)	1:15:A:LEU:HD11	1:15:A:LEU:HA	9	0.53
(1,142)	1:15:A:LEU:HD12	1:15:A:LEU:HA	9	0.53
(1,142)	1:15:A:LEU:HD13	1:15:A:LEU:HA	9	0.53
(1,42)	1:8:A:THR:HA	1:9:A:ALA:H	10	0.53
(3,1172)	1:118:A:ILE:HG12	1:103:A:ILE:HG13	1	0.52
(3,1166)	1:118:A:ILE:HG13	1:103:A:ILE:H	8	0.52
(3,1155)	1:118:A:ILE:HG22	1:119:A:GLN:H	5	0.52
(3,1135)	1:79:A:VAL:H	1:123:A:ILE:HG23	10	0.52
(3,1093)	1:70:A:ILE:HD13	1:123:A:ILE:H	7	0.52
(3,1074)	1:78:A:LEU:H	1:77:A:ILE:HD13	1	0.52
(3,1036)	1:21:A:VAL:HG12	1:22:A:LYS:H	4	0.52
(3,841)	1:80:A:LEU:HD21	1:80:A:LEU:H	2	0.52
(3,814)	1:24:A:ILE:HD11	1:65:A:HIS:H	10	0.52
(3,671)	1:40:A:LYS:HB3	1:41:A:GLU:H	10	0.52
(3,634)	1:103:A:ILE:HG12	1:104:A:VAL:H	7	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,603)	1:25:A:THR:HG23	1:23:A:ILE:HD13	10	0.52
(3,451)	1:121:A:GLU:H	1:118:A:ILE:HG22	9	0.52
(3,416)	1:5:A:LYS:H	1:4:A:GLU:HG2	9	0.52
(3,397)	1:40:A:LYS:HE2	1:40:A:LYS:HA	10	0.52
(3,391)	1:114:A:ARG:H	1:114:A:ARG:HG3	3	0.52
(3,339)	1:30:A:GLU:HG3	1:32:A:TYR:H	4	0.52
(3,240)	1:109:A:PRO:HA	1:109:A:PRO:HG2	5	0.52
(2,11)	1:9:A:ALA:HA	1:14:A:TRP:HA	8	0.52
(1,3715)	1:84:A:TYR:HE1	1:87:A:ASN:HD22	4	0.52
(1,3715)	1:84:A:TYR:HE2	1:87:A:ASN:HD22	4	0.52
(1,3556)	1:10:A:ARG:HB2	1:81:A:ASN:HD21	2	0.52
(1,3545)	1:66:A:LEU:H	1:63:A:GLN:HG2	3	0.52
(1,3545)	1:66:A:LEU:H	1:63:A:GLN:HG2	10	0.52
(1,3449)	1:15:A:LEU:H	1:14:A:TRP:HE1	2	0.52
(1,3444)	1:63:A:GLN:HB3	1:14:A:TRP:HE1	1	0.52
(1,3444)	1:63:A:GLN:HB3	1:14:A:TRP:HE1	5	0.52
(1,2887)	1:70:A:ILE:H	1:70:A:ILE:HG13	5	0.52
(1,2773)	1:10:A:ARG:HG2	1:83:A:GLY:H	2	0.52
(1,2735)	1:85:A:ARG:HB3	1:87:A:ASN:H	6	0.52
(1,2735)	1:85:A:ARG:HB3	1:87:A:ASN:H	7	0.52
(1,2494)	1:108:A:GLY:H	1:111:A:LYS:HE3	8	0.52
(1,2287)	1:20:A:ILE:HA	1:38:A:ILE:HG13	4	0.52
(1,2287)	1:20:A:ILE:HA	1:38:A:ILE:HG13	5	0.52
(1,1996)	1:121:A:GLU:H	1:121:A:GLU:HB2	1	0.52
(1,1996)	1:121:A:GLU:H	1:121:A:GLU:HB2	8	0.52
(1,1823)	1:110:A:LEU:H	1:109:A:PRO:HG2	1	0.52
(1,1822)	1:110:A:LEU:H	1:109:A:PRO:HG2	2	0.52
(1,1822)	1:110:A:LEU:H	1:109:A:PRO:HG2	6	0.52
(1,1682)	1:47:A:THR:HG21	1:43:A:ILE:HB	4	0.52
(1,1682)	1:47:A:THR:HG22	1:43:A:ILE:HB	4	0.52
(1,1682)	1:47:A:THR:HG23	1:43:A:ILE:HB	4	0.52
(1,1584)	1:120:A:TYR:HD1	1:94:A:ILE:HG21	2	0.52
(1,1584)	1:120:A:TYR:HD1	1:94:A:ILE:HG22	2	0.52
(1,1584)	1:120:A:TYR:HD1	1:94:A:ILE:HG23	2	0.52
(1,1584)	1:120:A:TYR:HD2	1:94:A:ILE:HG21	2	0.52
(1,1584)	1:120:A:TYR:HD2	1:94:A:ILE:HG22	2	0.52
(1,1584)	1:120:A:TYR:HD2	1:94:A:ILE:HG23	2	0.52
(1,1448)	1:85:A:ARG:HD2	1:81:A:ASN:HA	10	0.52
(1,965)	1:22:A:LYS:HE2	1:22:A:LYS:HG2	7	0.52
(1,859)	1:37:A:ALA:HA	1:53:A:ILE:HD11	3	0.52
(1,859)	1:37:A:ALA:HA	1:53:A:ILE:HD12	3	0.52
(1,859)	1:37:A:ALA:HA	1:53:A:ILE:HD13	3	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,859)	1:37:A:ALA:HA	1:53:A:ILE:HD11	9	0.52
(1,859)	1:37:A:ALA:HA	1:53:A:ILE:HD12	9	0.52
(1,859)	1:37:A:ALA:HA	1:53:A:ILE:HD13	9	0.52
(1,856)	1:38:A:ILE:H	1:53:A:ILE:HD11	2	0.52
(1,856)	1:38:A:ILE:H	1:53:A:ILE:HD12	2	0.52
(1,856)	1:38:A:ILE:H	1:53:A:ILE:HD13	2	0.52
(1,856)	1:38:A:ILE:H	1:53:A:ILE:HD11	3	0.52
(1,856)	1:38:A:ILE:H	1:53:A:ILE:HD12	3	0.52
(1,856)	1:38:A:ILE:H	1:53:A:ILE:HD13	3	0.52
(1,781)	1:48:A:ALA:HB1	1:39:A:VAL:HB	4	0.52
(1,781)	1:48:A:ALA:HB2	1:39:A:VAL:HB	4	0.52
(1,781)	1:48:A:ALA:HB3	1:39:A:VAL:HB	4	0.52
(1,711)	1:45:A:LYS:H	1:44:A:ASP:HB2	6	0.52
(1,711)	1:45:A:LYS:H	1:44:A:ASP:HB2	10	0.52
(1,673)	1:41:A:GLU:HG3	1:43:A:ILE:HA	10	0.52
(1,669)	1:43:A:ILE:HG12	1:43:A:ILE:HA	3	0.52
(1,636)	1:42:A:VAL:HG21	1:42:A:VAL:HA	1	0.52
(1,636)	1:42:A:VAL:HG22	1:42:A:VAL:HA	1	0.52
(1,636)	1:42:A:VAL:HG23	1:42:A:VAL:HA	1	0.52
(1,636)	1:42:A:VAL:HG21	1:42:A:VAL:HA	3	0.52
(1,636)	1:42:A:VAL:HG22	1:42:A:VAL:HA	3	0.52
(1,636)	1:42:A:VAL:HG23	1:42:A:VAL:HA	3	0.52
(1,636)	1:42:A:VAL:HG21	1:42:A:VAL:HA	4	0.52
(1,636)	1:42:A:VAL:HG22	1:42:A:VAL:HA	4	0.52
(1,636)	1:42:A:VAL:HG23	1:42:A:VAL:HA	4	0.52
(1,636)	1:42:A:VAL:HG21	1:42:A:VAL:HA	7	0.52
(1,636)	1:42:A:VAL:HG22	1:42:A:VAL:HA	7	0.52
(1,636)	1:42:A:VAL:HG23	1:42:A:VAL:HA	7	0.52
(1,636)	1:42:A:VAL:HG21	1:42:A:VAL:HA	10	0.52
(1,636)	1:42:A:VAL:HG22	1:42:A:VAL:HA	10	0.52
(1,636)	1:42:A:VAL:HG23	1:42:A:VAL:HA	10	0.52
(1,565)	1:17:A:PRO:HA	1:39:A:VAL:HG21	8	0.52
(1,565)	1:17:A:PRO:HA	1:39:A:VAL:HG22	8	0.52
(1,565)	1:17:A:PRO:HA	1:39:A:VAL:HG23	8	0.52
(1,456)	1:61:A:LEU:HD21	1:59:A:LEU:HD11	1	0.52
(1,456)	1:61:A:LEU:HD21	1:59:A:LEU:HD12	1	0.52
(1,456)	1:61:A:LEU:HD21	1:59:A:LEU:HD13	1	0.52
(1,456)	1:61:A:LEU:HD22	1:59:A:LEU:HD11	1	0.52
(1,456)	1:61:A:LEU:HD22	1:59:A:LEU:HD12	1	0.52
(1,456)	1:61:A:LEU:HD22	1:59:A:LEU:HD13	1	0.52
(1,456)	1:61:A:LEU:HD23	1:59:A:LEU:HD11	1	0.52
(1,456)	1:61:A:LEU:HD23	1:59:A:LEU:HD12	1	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,456)	1:61:A:LEU:HD23	1:59:A:LEU:HD13	1	0.52
(1,451)	1:28:A:LEU:H	1:28:A:LEU:HD11	4	0.52
(1,451)	1:28:A:LEU:H	1:28:A:LEU:HD12	4	0.52
(1,451)	1:28:A:LEU:H	1:28:A:LEU:HD13	4	0.52
(1,390)	1:24:A:ILE:HD11	1:67:A:GLU:HB3	4	0.52
(1,390)	1:24:A:ILE:HD12	1:67:A:GLU:HB3	4	0.52
(1,390)	1:24:A:ILE:HD13	1:67:A:GLU:HB3	4	0.52
(1,287)	1:20:A:ILE:HD11	1:20:A:ILE:H	9	0.52
(1,287)	1:20:A:ILE:HD12	1:20:A:ILE:H	9	0.52
(1,287)	1:20:A:ILE:HD13	1:20:A:ILE:H	9	0.52
(1,178)	1:17:A:PRO:HA	1:39:A:VAL:HG21	7	0.52
(1,178)	1:17:A:PRO:HA	1:39:A:VAL:HG22	7	0.52
(1,178)	1:17:A:PRO:HA	1:39:A:VAL:HG23	7	0.52
(3,1181)	1:55:A:SER:HB3	1:57:A:ASP:HB2	3	0.51
(3,1157)	1:80:A:LEU:HD12	1:14:A:TRP:HZ3	6	0.51
(3,1074)	1:78:A:LEU:H	1:77:A:ILE:HD11	6	0.51
(3,995)	1:102:A:THR:HG21	1:116:A:GLU:H	7	0.51
(3,961)	1:30:A:GLU:HG2	1:29:A:GLY:H	5	0.51
(3,863)	1:113:A:ARG:HD3	1:103:A:ILE:HD11	7	0.51
(3,800)	1:52:A:MET:H	1:52:A:MET:HG3	1	0.51
(3,673)	1:73:A:PRO:HA	1:73:A:PRO:HD2	1	0.51
(3,673)	1:73:A:PRO:HA	1:73:A:PRO:HD2	2	0.51
(3,673)	1:73:A:PRO:HA	1:73:A:PRO:HD2	3	0.51
(3,673)	1:73:A:PRO:HA	1:73:A:PRO:HD2	5	0.51
(3,673)	1:73:A:PRO:HA	1:73:A:PRO:HD2	6	0.51
(3,673)	1:73:A:PRO:HA	1:73:A:PRO:HD2	7	0.51
(3,673)	1:73:A:PRO:HA	1:73:A:PRO:HD2	9	0.51
(3,673)	1:73:A:PRO:HA	1:73:A:PRO:HD2	10	0.51
(3,583)	1:118:A:ILE:HD11	1:122:A:ASP:HB3	2	0.51
(3,451)	1:121:A:GLU:H	1:118:A:ILE:HG23	6	0.51
(3,366)	1:42:A:VAL:HG23	1:16:A:GLN:HG2	9	0.51
(3,300)	1:11:A:THR:HG22	1:13:A:TYR:HE2	3	0.51
(3,241)	1:17:A:PRO:HD3	1:16:A:GLN:HE22	9	0.51
(3,240)	1:109:A:PRO:HA	1:109:A:PRO:HG2	10	0.51
(3,30)	1:103:A:ILE:H	1:103:A:ILE:HD13	5	0.51
(2,61)	1:26:A:LYS:HE2	1:24:A:ILE:HA	1	0.51
(1,3778)	1:45:A:LYS:HB3	1:46:A:TYR:HD1	7	0.51
(1,3778)	1:45:A:LYS:HB3	1:46:A:TYR:HD2	7	0.51
(1,3778)	1:45:A:LYS:HB3	1:46:A:TYR:HD1	8	0.51
(1,3778)	1:45:A:LYS:HB3	1:46:A:TYR:HD2	8	0.51
(1,3641)	1:11:A:THR:H	1:81:A:ASN:HD21	3	0.51
(1,3508)	1:40:A:LYS:HE3	1:41:A:GLU:H	7	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3331)	1:20:A:ILE:H	1:124:A:SER:HB3	2	0.51
(1,3210)	1:36:A:LYS:H	1:36:A:LYS:HE3	3	0.51
(1,2888)	1:70:A:ILE:H	1:69:A:VAL:HG21	10	0.51
(1,2888)	1:70:A:ILE:H	1:69:A:VAL:HG22	10	0.51
(1,2888)	1:70:A:ILE:H	1:69:A:VAL:HG23	10	0.51
(1,2887)	1:70:A:ILE:H	1:70:A:ILE:HG13	8	0.51
(1,2792)	1:81:A:ASN:H	1:81:A:ASN:HB3	1	0.51
(1,2792)	1:81:A:ASN:H	1:81:A:ASN:HB3	4	0.51
(1,2735)	1:85:A:ARG:HB3	1:87:A:ASN:H	8	0.51
(1,2719)	1:88:A:GLU:H	1:87:A:ASN:HB2	1	0.51
(1,2709)	1:103:A:ILE:HB	1:89:A:GLY:H	2	0.51
(1,2441)	1:84:A:TYR:HE1	1:116:A:GLU:H	9	0.51
(1,2441)	1:84:A:TYR:HE2	1:116:A:GLU:H	9	0.51
(1,2346)	1:124:A:SER:H	1:78:A:LEU:HB2	10	0.51
(1,2330)	1:125:A:LYS:HE2	1:125:A:LYS:H	5	0.51
(1,2294)	1:19:A:ILE:HD11	1:16:A:GLN:HB2	7	0.51
(1,2294)	1:19:A:ILE:HD12	1:16:A:GLN:HB2	7	0.51
(1,2294)	1:19:A:ILE:HD13	1:16:A:GLN:HB2	7	0.51
(1,2183)	1:111:A:LYS:HE2	1:111:A:LYS:HA	8	0.51
(1,2178)	1:104:A:VAL:HG21	1:112:A:GLY:HA3	3	0.51
(1,2178)	1:104:A:VAL:HG22	1:112:A:GLY:HA3	3	0.51
(1,2178)	1:104:A:VAL:HG23	1:112:A:GLY:HA3	3	0.51
(1,2168)	1:61:A:LEU:HG	1:65:A:HIS:HB3	2	0.51
(1,2162)	1:115:A:VAL:HG21	1:113:A:ARG:HD3	1	0.51
(1,2162)	1:115:A:VAL:HG22	1:113:A:ARG:HD3	1	0.51
(1,2162)	1:115:A:VAL:HG23	1:113:A:ARG:HD3	1	0.51
(1,1584)	1:120:A:TYR:HD1	1:94:A:ILE:HG21	4	0.51
(1,1584)	1:120:A:TYR:HD1	1:94:A:ILE:HG22	4	0.51
(1,1584)	1:120:A:TYR:HD1	1:94:A:ILE:HG23	4	0.51
(1,1584)	1:120:A:TYR:HD2	1:94:A:ILE:HG21	4	0.51
(1,1584)	1:120:A:TYR:HD2	1:94:A:ILE:HG22	4	0.51
(1,1584)	1:120:A:TYR:HD2	1:94:A:ILE:HG23	4	0.51
(1,1520)	1:91:A:LEU:HD11	1:71:A:PRO:HD3	3	0.51
(1,1520)	1:91:A:LEU:HD12	1:71:A:PRO:HD3	3	0.51
(1,1520)	1:91:A:LEU:HD13	1:71:A:PRO:HD3	3	0.51
(1,1370)	1:122:A:ASP:HA	1:80:A:LEU:HB3	10	0.51
(1,1275)	1:97:A:LYS:H	1:97:A:LYS:HB3	2	0.51
(1,1275)	1:97:A:LYS:H	1:97:A:LYS:HB3	6	0.51
(1,1256)	1:90:A:THR:HG21	1:74:A:GLY:HA3	10	0.51
(1,1256)	1:90:A:THR:HG22	1:74:A:GLY:HA3	10	0.51
(1,1256)	1:90:A:THR:HG23	1:74:A:GLY:HA3	10	0.51
(1,816)	1:111:A:LYS:HD3	1:106:A:GLU:HA	7	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,804)	1:50:A:VAL:HG21	1:59:A:LEU:HD21	2	0.51
(1,804)	1:50:A:VAL:HG21	1:59:A:LEU:HD22	2	0.51
(1,804)	1:50:A:VAL:HG21	1:59:A:LEU:HD23	2	0.51
(1,804)	1:50:A:VAL:HG22	1:59:A:LEU:HD21	2	0.51
(1,804)	1:50:A:VAL:HG22	1:59:A:LEU:HD22	2	0.51
(1,804)	1:50:A:VAL:HG22	1:59:A:LEU:HD23	2	0.51
(1,804)	1:50:A:VAL:HG23	1:59:A:LEU:HD21	2	0.51
(1,804)	1:50:A:VAL:HG23	1:59:A:LEU:HD22	2	0.51
(1,804)	1:50:A:VAL:HG23	1:59:A:LEU:HD23	2	0.51
(1,804)	1:50:A:VAL:HG21	1:59:A:LEU:HD21	6	0.51
(1,804)	1:50:A:VAL:HG21	1:59:A:LEU:HD22	6	0.51
(1,804)	1:50:A:VAL:HG21	1:59:A:LEU:HD23	6	0.51
(1,804)	1:50:A:VAL:HG22	1:59:A:LEU:HD21	6	0.51
(1,804)	1:50:A:VAL:HG22	1:59:A:LEU:HD22	6	0.51
(1,804)	1:50:A:VAL:HG22	1:59:A:LEU:HD23	6	0.51
(1,804)	1:50:A:VAL:HG23	1:59:A:LEU:HD21	6	0.51
(1,804)	1:50:A:VAL:HG23	1:59:A:LEU:HD22	6	0.51
(1,804)	1:50:A:VAL:HG23	1:59:A:LEU:HD23	6	0.51
(1,804)	1:50:A:VAL:HG21	1:59:A:LEU:HD21	7	0.51
(1,804)	1:50:A:VAL:HG21	1:59:A:LEU:HD22	7	0.51
(1,804)	1:50:A:VAL:HG21	1:59:A:LEU:HD23	7	0.51
(1,804)	1:50:A:VAL:HG22	1:59:A:LEU:HD21	7	0.51
(1,804)	1:50:A:VAL:HG22	1:59:A:LEU:HD22	7	0.51
(1,804)	1:50:A:VAL:HG22	1:59:A:LEU:HD23	7	0.51
(1,804)	1:50:A:VAL:HG23	1:59:A:LEU:HD21	7	0.51
(1,804)	1:50:A:VAL:HG23	1:59:A:LEU:HD22	7	0.51
(1,804)	1:50:A:VAL:HG23	1:59:A:LEU:HD23	7	0.51
(1,804)	1:50:A:VAL:HG21	1:59:A:LEU:HD21	9	0.51
(1,804)	1:50:A:VAL:HG21	1:59:A:LEU:HD22	9	0.51
(1,804)	1:50:A:VAL:HG21	1:59:A:LEU:HD23	9	0.51
(1,804)	1:50:A:VAL:HG22	1:59:A:LEU:HD21	9	0.51
(1,804)	1:50:A:VAL:HG22	1:59:A:LEU:HD22	9	0.51
(1,804)	1:50:A:VAL:HG22	1:59:A:LEU:HD23	9	0.51
(1,804)	1:50:A:VAL:HG23	1:59:A:LEU:HD21	9	0.51
(1,804)	1:50:A:VAL:HG23	1:59:A:LEU:HD22	9	0.51
(1,804)	1:50:A:VAL:HG23	1:59:A:LEU:HD23	9	0.51
(1,669)	1:43:A:ILE:HG12	1:43:A:ILE:HA	7	0.51
(1,669)	1:43:A:ILE:HG12	1:43:A:ILE:HA	8	0.51
(1,662)	1:45:A:LYS:HA	1:42:A:VAL:HG21	3	0.51
(1,662)	1:45:A:LYS:HA	1:42:A:VAL:HG22	3	0.51
(1,662)	1:45:A:LYS:HA	1:42:A:VAL:HG23	3	0.51
(1,636)	1:42:A:VAL:HG21	1:42:A:VAL:HA	2	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,636)	1:42:A:VAL:HG22	1:42:A:VAL:HA	2	0.51
(1,636)	1:42:A:VAL:HG23	1:42:A:VAL:HA	2	0.51
(1,636)	1:42:A:VAL:HG21	1:42:A:VAL:HA	6	0.51
(1,636)	1:42:A:VAL:HG22	1:42:A:VAL:HA	6	0.51
(1,636)	1:42:A:VAL:HG23	1:42:A:VAL:HA	6	0.51
(1,636)	1:42:A:VAL:HG21	1:42:A:VAL:HA	8	0.51
(1,636)	1:42:A:VAL:HG22	1:42:A:VAL:HA	8	0.51
(1,636)	1:42:A:VAL:HG23	1:42:A:VAL:HA	8	0.51
(1,636)	1:42:A:VAL:HG21	1:42:A:VAL:HA	9	0.51
(1,636)	1:42:A:VAL:HG22	1:42:A:VAL:HA	9	0.51
(1,636)	1:42:A:VAL:HG23	1:42:A:VAL:HA	9	0.51
(1,580)	1:78:A:LEU:HA	1:78:A:LEU:HD21	6	0.51
(1,580)	1:78:A:LEU:HA	1:78:A:LEU:HD22	6	0.51
(1,580)	1:78:A:LEU:HA	1:78:A:LEU:HD23	6	0.51
(1,456)	1:61:A:LEU:HD21	1:59:A:LEU:HD11	2	0.51
(1,456)	1:61:A:LEU:HD21	1:59:A:LEU:HD12	2	0.51
(1,456)	1:61:A:LEU:HD21	1:59:A:LEU:HD13	2	0.51
(1,456)	1:61:A:LEU:HD22	1:59:A:LEU:HD11	2	0.51
(1,456)	1:61:A:LEU:HD22	1:59:A:LEU:HD12	2	0.51
(1,456)	1:61:A:LEU:HD22	1:59:A:LEU:HD13	2	0.51
(1,456)	1:61:A:LEU:HD23	1:59:A:LEU:HD11	2	0.51
(1,456)	1:61:A:LEU:HD23	1:59:A:LEU:HD12	2	0.51
(1,456)	1:61:A:LEU:HD23	1:59:A:LEU:HD13	2	0.51
(1,451)	1:28:A:LEU:H	1:28:A:LEU:HD11	10	0.51
(1,451)	1:28:A:LEU:H	1:28:A:LEU:HD12	10	0.51
(1,451)	1:28:A:LEU:H	1:28:A:LEU:HD13	10	0.51
(1,138)	1:15:A:LEU:H	1:15:A:LEU:HD11	10	0.51
(1,138)	1:15:A:LEU:H	1:15:A:LEU:HD12	10	0.51
(1,138)	1:15:A:LEU:H	1:15:A:LEU:HD13	10	0.51
(3,1074)	1:78:A:LEU:H	1:77:A:ILE:HD12	2	0.5
(3,850)	1:15:A:LEU:HD13	1:14:A:TRP:HH2	6	0.5
(3,849)	1:26:A:LYS:HB3	1:33:A:HIS:H	2	0.5
(3,795)	1:52:A:MET:H	1:56:A:GLY:HA3	9	0.5
(3,676)	1:108:A:GLY:H	1:107:A:THR:HG21	5	0.5
(3,673)	1:73:A:PRO:HA	1:73:A:PRO:HD2	4	0.5
(3,673)	1:73:A:PRO:HA	1:73:A:PRO:HD2	8	0.5
(3,600)	1:20:A:ILE:HB	1:21:A:VAL:H	7	0.5
(3,583)	1:118:A:ILE:HD12	1:122:A:ASP:HB3	7	0.5
(3,583)	1:118:A:ILE:HD11	1:122:A:ASP:HB3	8	0.5
(3,568)	1:78:A:LEU:HD12	1:78:A:LEU:HD22	7	0.5
(3,371)	1:20:A:ILE:HB	1:21:A:VAL:H	5	0.5
(3,30)	1:103:A:ILE:H	1:103:A:ILE:HD13	2	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,30)	1:103:A:ILE:H	1:103:A:ILE:HD13	4	0.5
(2,362)	1:84:A:TYR:HB3	1:103:A:ILE:HG13	10	0.5
(1,3758)	1:27:A:LYS:HD3	1:65:A:HIS:HE1	4	0.5
(1,3728)	1:97:A:LYS:H	1:95:A:ASN:HD21	9	0.5
(1,3725)	1:95:A:ASN:HD22	1:95:A:ASN:H	2	0.5
(1,3648)	1:16:A:GLN:HE22	1:80:A:LEU:HG	8	0.5
(1,3509)	1:40:A:LYS:HE3	1:41:A:GLU:H	4	0.5
(1,3113)	1:44:A:ASP:HB2	1:46:A:TYR:H	5	0.5
(1,2976)	1:63:A:GLN:H	1:14:A:TRP:HE1	6	0.5
(1,2878)	1:75:A:LYS:HE3	1:72:A:ALA:H	6	0.5
(1,2848)	1:76:A:ARG:H	1:76:A:ARG:HD2	3	0.5
(1,2709)	1:103:A:ILE:HB	1:89:A:GLY:H	9	0.5
(1,2708)	1:88:A:GLU:HB3	1:89:A:GLY:H	1	0.5
(1,2646)	1:95:A:ASN:HB3	1:95:A:ASN:H	3	0.5
(1,2441)	1:84:A:TYR:HE1	1:116:A:GLU:H	2	0.5
(1,2441)	1:84:A:TYR:HE2	1:116:A:GLU:H	2	0.5
(1,2207)	1:103:A:ILE:HG21	1:118:A:ILE:HB	6	0.5
(1,2207)	1:103:A:ILE:HG22	1:118:A:ILE:HB	6	0.5
(1,2207)	1:103:A:ILE:HG23	1:118:A:ILE:HB	6	0.5
(1,1996)	1:121:A:GLU:H	1:121:A:GLU:HB2	2	0.5
(1,1959)	1:118:A:ILE:HD11	1:122:A:ASP:HB2	7	0.5
(1,1959)	1:118:A:ILE:HD12	1:122:A:ASP:HB2	7	0.5
(1,1959)	1:118:A:ILE:HD13	1:122:A:ASP:HB2	7	0.5
(1,1868)	1:104:A:VAL:HG21	1:112:A:GLY:HA3	6	0.5
(1,1868)	1:104:A:VAL:HG22	1:112:A:GLY:HA3	6	0.5
(1,1868)	1:104:A:VAL:HG23	1:112:A:GLY:HA3	6	0.5
(1,1682)	1:47:A:THR:HG21	1:43:A:ILE:HB	10	0.5
(1,1682)	1:47:A:THR:HG22	1:43:A:ILE:HB	10	0.5
(1,1682)	1:47:A:THR:HG23	1:43:A:ILE:HB	10	0.5
(1,1532)	1:93:A:SER:HA	1:73:A:PRO:HG2	5	0.5
(1,1316)	1:126:A:LEU:H	1:77:A:ILE:HG21	10	0.5
(1,1316)	1:126:A:LEU:H	1:77:A:ILE:HG22	10	0.5
(1,1316)	1:126:A:LEU:H	1:77:A:ILE:HG23	10	0.5
(1,889)	1:54:A:ASP:HB2	1:53:A:ILE:HG21	1	0.5
(1,889)	1:54:A:ASP:HB2	1:53:A:ILE:HG22	1	0.5
(1,889)	1:54:A:ASP:HB2	1:53:A:ILE:HG23	1	0.5
(1,855)	1:37:A:ALA:H	1:53:A:ILE:HD11	9	0.5
(1,855)	1:37:A:ALA:H	1:53:A:ILE:HD12	9	0.5
(1,855)	1:37:A:ALA:H	1:53:A:ILE:HD13	9	0.5
(1,818)	1:51:A:LYS:HG3	1:56:A:GLY:HA3	1	0.5
(1,636)	1:42:A:VAL:HG21	1:42:A:VAL:HA	5	0.5
(1,636)	1:42:A:VAL:HG22	1:42:A:VAL:HA	5	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,636)	1:42:A:VAL:HG23	1:42:A:VAL:HA	5	0.5
(1,588)	1:53:A:ILE:HA	1:38:A:ILE:HG12	1	0.5
(1,458)	1:61:A:LEU:HD21	1:60:A:LYS:H	7	0.5
(1,458)	1:61:A:LEU:HD22	1:60:A:LYS:H	7	0.5
(1,458)	1:61:A:LEU:HD23	1:60:A:LYS:H	7	0.5
(1,266)	1:127:A:ALA:H	1:19:A:ILE:HG21	9	0.5
(1,266)	1:127:A:ALA:H	1:19:A:ILE:HG22	9	0.5
(1,266)	1:127:A:ALA:H	1:19:A:ILE:HG23	9	0.5
(1,106)	1:14:A:TRP:HB3	1:80:A:LEU:HD11	5	0.5
(1,106)	1:14:A:TRP:HB3	1:80:A:LEU:HD12	5	0.5
(1,106)	1:14:A:TRP:HB3	1:80:A:LEU:HD13	5	0.5
(3,1093)	1:70:A:ILE:HD12	1:123:A:ILE:H	6	0.49
(3,919)	1:65:A:HIS:HE1	1:27:A:LYS:HD2	8	0.49
(3,879)	1:104:A:VAL:HG12	1:104:A:VAL:HB	2	0.49
(3,879)	1:104:A:VAL:HG13	1:104:A:VAL:HB	3	0.49
(3,879)	1:104:A:VAL:HG13	1:104:A:VAL:HB	4	0.49
(3,879)	1:104:A:VAL:HG11	1:104:A:VAL:HB	8	0.49
(3,879)	1:104:A:VAL:HG12	1:104:A:VAL:HB	9	0.49
(3,841)	1:80:A:LEU:HD22	1:80:A:LEU:H	5	0.49
(3,767)	1:77:A:ILE:H	1:77:A:ILE:HD11	6	0.49
(3,304)	1:94:A:ILE:HB	1:70:A:ILE:HG22	4	0.49
(3,304)	1:94:A:ILE:HB	1:70:A:ILE:HG23	10	0.49
(3,293)	1:27:A:LYS:HG3	1:27:A:LYS:HA	2	0.49
(3,291)	1:114:A:ARG:H	1:114:A:ARG:HG2	3	0.49
(2,566)	1:63:A:GLN:HB2	1:46:A:TYR:H	9	0.49
(1,3840)	1:46:A:TYR:HE1	1:13:A:TYR:HB2	5	0.49
(1,3840)	1:46:A:TYR:HE2	1:13:A:TYR:HB2	5	0.49
(1,3363)	1:15:A:LEU:H	1:15:A:LEU:HD11	2	0.49
(1,3363)	1:15:A:LEU:H	1:15:A:LEU:HD12	2	0.49
(1,3363)	1:15:A:LEU:H	1:15:A:LEU:HD13	2	0.49
(1,3113)	1:44:A:ASP:HB2	1:46:A:TYR:H	1	0.49
(1,3089)	1:48:A:ALA:H	1:63:A:GLN:HA	3	0.49
(1,3040)	1:54:A:ASP:H	1:53:A:ILE:HG21	10	0.49
(1,3040)	1:54:A:ASP:H	1:53:A:ILE:HG22	10	0.49
(1,3040)	1:54:A:ASP:H	1:53:A:ILE:HG23	10	0.49
(1,2848)	1:76:A:ARG:H	1:76:A:ARG:HD2	6	0.49
(1,2708)	1:88:A:GLU:HB3	1:89:A:GLY:H	4	0.49
(1,2467)	1:113:A:ARG:H	1:105:A:ILE:HG13	2	0.49
(1,2287)	1:20:A:ILE:HA	1:38:A:ILE:HG13	3	0.49
(1,2239)	1:10:A:ARG:HG2	1:82:A:GLY:HA3	1	0.49
(1,2238)	1:76:A:ARG:HD2	1:90:A:THR:HA	8	0.49
(1,2110)	1:126:A:LEU:HB3	1:77:A:ILE:HG21	8	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2110)	1:126:A:LEU:HB3	1:77:A:ILE:HG22	8	0.49
(1,2110)	1:126:A:LEU:HB3	1:77:A:ILE:HG23	8	0.49
(1,1996)	1:121:A:GLU:H	1:121:A:GLU:HB2	6	0.49
(1,1938)	1:116:A:GLU:H	1:116:A:GLU:HG2	5	0.49
(1,1762)	1:105:A:ILE:HG21	1:106:A:GLU:HA	5	0.49
(1,1762)	1:105:A:ILE:HG22	1:106:A:GLU:HA	5	0.49
(1,1762)	1:105:A:ILE:HG23	1:106:A:GLU:HA	5	0.49
(1,1762)	1:105:A:ILE:HG21	1:106:A:GLU:HA	8	0.49
(1,1762)	1:105:A:ILE:HG22	1:106:A:GLU:HA	8	0.49
(1,1762)	1:105:A:ILE:HG23	1:106:A:GLU:HA	8	0.49
(1,1532)	1:93:A:SER:HA	1:73:A:PRO:HG2	4	0.49
(1,1256)	1:90:A:THR:HG21	1:74:A:GLY:HA3	8	0.49
(1,1256)	1:90:A:THR:HG22	1:74:A:GLY:HA3	8	0.49
(1,1256)	1:90:A:THR:HG23	1:74:A:GLY:HA3	8	0.49
(1,1214)	1:73:A:PRO:HD3	1:72:A:ALA:HB1	1	0.49
(1,1214)	1:73:A:PRO:HD3	1:72:A:ALA:HB2	1	0.49
(1,1214)	1:73:A:PRO:HD3	1:72:A:ALA:HB3	1	0.49
(1,1214)	1:73:A:PRO:HD3	1:72:A:ALA:HB1	7	0.49
(1,1214)	1:73:A:PRO:HD3	1:72:A:ALA:HB2	7	0.49
(1,1214)	1:73:A:PRO:HD3	1:72:A:ALA:HB3	7	0.49
(1,1214)	1:73:A:PRO:HD3	1:72:A:ALA:HB1	10	0.49
(1,1214)	1:73:A:PRO:HD3	1:72:A:ALA:HB2	10	0.49
(1,1214)	1:73:A:PRO:HD3	1:72:A:ALA:HB3	10	0.49
(1,893)	1:51:A:LYS:HG3	1:56:A:GLY:HA3	1	0.49
(1,711)	1:45:A:LYS:H	1:44:A:ASP:HB2	1	0.49
(1,660)	1:15:A:LEU:H	1:42:A:VAL:HG21	6	0.49
(1,660)	1:15:A:LEU:H	1:42:A:VAL:HG22	6	0.49
(1,660)	1:15:A:LEU:H	1:42:A:VAL:HG23	6	0.49
(1,660)	1:15:A:LEU:H	1:42:A:VAL:HG21	8	0.49
(1,660)	1:15:A:LEU:H	1:42:A:VAL:HG22	8	0.49
(1,660)	1:15:A:LEU:H	1:42:A:VAL:HG23	8	0.49
(1,577)	1:15:A:LEU:HD21	1:39:A:VAL:HG11	8	0.49
(1,577)	1:15:A:LEU:HD21	1:39:A:VAL:HG12	8	0.49
(1,577)	1:15:A:LEU:HD21	1:39:A:VAL:HG13	8	0.49
(1,577)	1:15:A:LEU:HD22	1:39:A:VAL:HG11	8	0.49
(1,577)	1:15:A:LEU:HD22	1:39:A:VAL:HG12	8	0.49
(1,577)	1:15:A:LEU:HD22	1:39:A:VAL:HG13	8	0.49
(1,577)	1:15:A:LEU:HD23	1:39:A:VAL:HG11	8	0.49
(1,577)	1:15:A:LEU:HD23	1:39:A:VAL:HG12	8	0.49
(1,577)	1:15:A:LEU:HD23	1:39:A:VAL:HG13	8	0.49
(1,451)	1:28:A:LEU:H	1:28:A:LEU:HD11	1	0.49
(1,451)	1:28:A:LEU:H	1:28:A:LEU:HD12	1	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,451)	1:28:A:LEU:H	1:28:A:LEU:HD13	1	0.49
(1,384)	1:24:A:ILE:HD11	1:65:A:HIS:H	2	0.49
(1,384)	1:24:A:ILE:HD12	1:65:A:HIS:H	2	0.49
(1,384)	1:24:A:ILE:HD13	1:65:A:HIS:H	2	0.49
(1,287)	1:20:A:ILE:HD11	1:20:A:ILE:H	3	0.49
(1,287)	1:20:A:ILE:HD12	1:20:A:ILE:H	3	0.49
(1,287)	1:20:A:ILE:HD13	1:20:A:ILE:H	3	0.49
(1,59)	1:10:A:ARG:HB2	1:81:A:ASN:HD21	7	0.49
(3,1189)	1:78:A:LEU:HA	1:79:A:VAL:HB	7	0.48
(3,1173)	1:84:A:TYR:HE1	1:113:A:ARG:HG2	4	0.48
(3,1098)	1:55:A:SER:HA	1:55:A:SER:HB2	2	0.48
(3,1093)	1:70:A:ILE:HD11	1:123:A:ILE:H	10	0.48
(3,1076)	1:97:A:LYS:H	1:97:A:LYS:HD2	6	0.48
(3,993)	1:61:A:LEU:HG	1:50:A:VAL:H	4	0.48
(3,993)	1:58:A:LYS:HG3	1:50:A:VAL:H	7	0.48
(3,879)	1:104:A:VAL:HG12	1:104:A:VAL:HB	5	0.48
(3,879)	1:104:A:VAL:HG12	1:104:A:VAL:HB	7	0.48
(3,879)	1:49:A:VAL:HB	1:49:A:VAL:HG23	10	0.48
(3,676)	1:108:A:GLY:H	1:107:A:THR:HG21	2	0.48
(3,568)	1:78:A:LEU:HD11	1:78:A:LEU:HD21	3	0.48
(3,414)	1:22:A:LYS:HD2	1:34:A:LYS:HA	4	0.48
(3,378)	1:89:A:GLY:H	1:103:A:ILE:HD12	4	0.48
(3,378)	1:89:A:GLY:H	1:105:A:ILE:HD13	10	0.48
(3,339)	1:30:A:GLU:HG3	1:32:A:TYR:H	1	0.48
(3,187)	1:16:A:GLN:H	1:14:A:TRP:HZ3	7	0.48
(2,338)	1:126:A:LEU:HB3	1:77:A:ILE:HG12	5	0.48
(1,3728)	1:97:A:LYS:H	1:95:A:ASN:HD21	10	0.48
(1,3592)	1:95:A:ASN:HA	1:95:A:ASN:HD22	4	0.48
(1,3511)	1:43:A:ILE:H	1:41:A:GLU:HG3	2	0.48
(1,3460)	1:78:A:LEU:HD11	1:16:A:GLN:HE22	3	0.48
(1,3460)	1:78:A:LEU:HD12	1:16:A:GLN:HE22	3	0.48
(1,3460)	1:78:A:LEU:HD13	1:16:A:GLN:HE22	3	0.48
(1,3278)	1:28:A:LEU:H	1:28:A:LEU:HD11	6	0.48
(1,3278)	1:28:A:LEU:H	1:28:A:LEU:HD12	6	0.48
(1,3278)	1:28:A:LEU:H	1:28:A:LEU:HD13	6	0.48
(1,3208)	1:36:A:LYS:HG2	1:36:A:LYS:H	2	0.48
(1,3128)	1:47:A:THR:HB	1:44:A:ASP:H	9	0.48
(1,2976)	1:63:A:GLN:H	1:14:A:TRP:HE1	1	0.48
(1,2781)	1:85:A:ARG:HD2	1:82:A:GLY:H	6	0.48
(1,2721)	1:75:A:LYS:HB3	1:76:A:ARG:H	10	0.48
(1,2608)	1:97:A:LYS:HB3	1:98:A:THR:H	5	0.48
(1,2251)	1:60:A:LYS:HE2	1:49:A:VAL:HA	8	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1924)	1:113:A:ARG:HB3	1:115:A:VAL:HG11	6	0.48
(1,1924)	1:113:A:ARG:HB3	1:115:A:VAL:HG12	6	0.48
(1,1924)	1:113:A:ARG:HB3	1:115:A:VAL:HG13	6	0.48
(1,1823)	1:110:A:LEU:H	1:109:A:PRO:HG2	7	0.48
(1,1370)	1:122:A:ASP:HA	1:80:A:LEU:HB3	3	0.48
(1,1347)	1:79:A:VAL:HG11	1:79:A:VAL:HA	1	0.48
(1,1347)	1:79:A:VAL:HG12	1:79:A:VAL:HA	1	0.48
(1,1347)	1:79:A:VAL:HG13	1:79:A:VAL:HA	1	0.48
(1,1347)	1:79:A:VAL:HG11	1:79:A:VAL:HA	2	0.48
(1,1347)	1:79:A:VAL:HG12	1:79:A:VAL:HA	2	0.48
(1,1347)	1:79:A:VAL:HG13	1:79:A:VAL:HA	2	0.48
(1,1347)	1:79:A:VAL:HG11	1:79:A:VAL:HA	3	0.48
(1,1347)	1:79:A:VAL:HG12	1:79:A:VAL:HA	3	0.48
(1,1347)	1:79:A:VAL:HG13	1:79:A:VAL:HA	3	0.48
(1,1347)	1:79:A:VAL:HG11	1:79:A:VAL:HA	4	0.48
(1,1347)	1:79:A:VAL:HG12	1:79:A:VAL:HA	4	0.48
(1,1347)	1:79:A:VAL:HG13	1:79:A:VAL:HA	4	0.48
(1,1347)	1:79:A:VAL:HG11	1:79:A:VAL:HA	5	0.48
(1,1347)	1:79:A:VAL:HG12	1:79:A:VAL:HA	5	0.48
(1,1347)	1:79:A:VAL:HG13	1:79:A:VAL:HA	5	0.48
(1,1347)	1:79:A:VAL:HG11	1:79:A:VAL:HA	6	0.48
(1,1347)	1:79:A:VAL:HG12	1:79:A:VAL:HA	6	0.48
(1,1347)	1:79:A:VAL:HG13	1:79:A:VAL:HA	6	0.48
(1,1347)	1:79:A:VAL:HG11	1:79:A:VAL:HA	7	0.48
(1,1347)	1:79:A:VAL:HG12	1:79:A:VAL:HA	7	0.48
(1,1347)	1:79:A:VAL:HG13	1:79:A:VAL:HA	7	0.48
(1,1347)	1:79:A:VAL:HG11	1:79:A:VAL:HA	8	0.48
(1,1347)	1:79:A:VAL:HG12	1:79:A:VAL:HA	8	0.48
(1,1347)	1:79:A:VAL:HG13	1:79:A:VAL:HA	8	0.48
(1,1347)	1:79:A:VAL:HG11	1:79:A:VAL:HA	9	0.48
(1,1347)	1:79:A:VAL:HG12	1:79:A:VAL:HA	9	0.48
(1,1347)	1:79:A:VAL:HG13	1:79:A:VAL:HA	9	0.48
(1,1347)	1:79:A:VAL:HG11	1:79:A:VAL:HA	10	0.48
(1,1347)	1:79:A:VAL:HG12	1:79:A:VAL:HA	10	0.48
(1,1347)	1:79:A:VAL:HG13	1:79:A:VAL:HA	10	0.48
(1,1275)	1:97:A:LYS:H	1:97:A:LYS:HB3	5	0.48
(1,1256)	1:90:A:THR:HG21	1:74:A:GLY:HA3	9	0.48
(1,1256)	1:90:A:THR:HG22	1:74:A:GLY:HA3	9	0.48
(1,1256)	1:90:A:THR:HG23	1:74:A:GLY:HA3	9	0.48
(1,1183)	1:71:A:PRO:HD3	1:70:A:ILE:HG21	3	0.48
(1,1183)	1:71:A:PRO:HD3	1:70:A:ILE:HG22	3	0.48
(1,1183)	1:71:A:PRO:HD3	1:70:A:ILE:HG23	3	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1095)	1:73:A:PRO:HG2	1:91:A:LEU:HD11	9	0.48
(1,1095)	1:73:A:PRO:HG2	1:91:A:LEU:HD12	9	0.48
(1,1095)	1:73:A:PRO:HG2	1:91:A:LEU:HD13	9	0.48
(1,859)	1:37:A:ALA:HA	1:53:A:ILE:HD11	2	0.48
(1,859)	1:37:A:ALA:HA	1:53:A:ILE:HD12	2	0.48
(1,859)	1:37:A:ALA:HA	1:53:A:ILE:HD13	2	0.48
(1,829)	1:52:A:MET:H	1:52:A:MET:HG3	5	0.48
(1,829)	1:52:A:MET:H	1:52:A:MET:HG3	6	0.48
(1,829)	1:52:A:MET:H	1:52:A:MET:HG3	7	0.48
(1,781)	1:48:A:ALA:HB1	1:39:A:VAL:HB	7	0.48
(1,781)	1:48:A:ALA:HB2	1:39:A:VAL:HB	7	0.48
(1,781)	1:48:A:ALA:HB3	1:39:A:VAL:HB	7	0.48
(1,686)	1:41:A:GLU:HG3	1:43:A:ILE:HD11	1	0.48
(1,686)	1:41:A:GLU:HG3	1:43:A:ILE:HD12	1	0.48
(1,686)	1:41:A:GLU:HG3	1:43:A:ILE:HD13	1	0.48
(1,314)	1:37:A:ALA:HB1	1:50:A:VAL:HG11	6	0.48
(1,314)	1:37:A:ALA:HB1	1:50:A:VAL:HG12	6	0.48
(1,314)	1:37:A:ALA:HB1	1:50:A:VAL:HG13	6	0.48
(1,314)	1:37:A:ALA:HB2	1:50:A:VAL:HG11	6	0.48
(1,314)	1:37:A:ALA:HB2	1:50:A:VAL:HG12	6	0.48
(1,314)	1:37:A:ALA:HB2	1:50:A:VAL:HG13	6	0.48
(1,314)	1:37:A:ALA:HB3	1:50:A:VAL:HG11	6	0.48
(1,314)	1:37:A:ALA:HB3	1:50:A:VAL:HG12	6	0.48
(1,314)	1:37:A:ALA:HB3	1:50:A:VAL:HG13	6	0.48
(3,1157)	1:80:A:LEU:HD12	1:14:A:TRP:HZ3	10	0.47
(3,1154)	1:7:A:ARG:HB2	1:7:A:ARG:H	6	0.47
(3,1087)	1:61:A:LEU:HD11	1:59:A:LEU:HB3	6	0.47
(3,1087)	1:61:A:LEU:HD12	1:59:A:LEU:HB3	6	0.47
(3,1087)	1:61:A:LEU:HD13	1:59:A:LEU:HB3	6	0.47
(3,1074)	1:78:A:LEU:H	1:77:A:ILE:HD13	3	0.47
(3,1074)	1:78:A:LEU:H	1:77:A:ILE:HD11	7	0.47
(3,936)	1:77:A:ILE:HG13	1:103:A:ILE:HB	6	0.47
(3,879)	1:104:A:VAL:HG13	1:104:A:VAL:HB	1	0.47
(3,879)	1:104:A:VAL:HG13	1:104:A:VAL:HB	6	0.47
(3,841)	1:80:A:LEU:HD22	1:80:A:LEU:H	6	0.47
(3,600)	1:20:A:ILE:HB	1:21:A:VAL:H	5	0.47
(3,568)	1:78:A:LEU:HD13	1:78:A:LEU:HD22	6	0.47
(3,568)	1:78:A:LEU:HD11	1:78:A:LEU:HD22	8	0.47
(3,561)	1:40:A:LYS:HE3	1:40:A:LYS:HB2	7	0.47
(3,471)	1:24:A:ILE:H	1:24:A:ILE:HG13	9	0.47
(3,427)	1:23:A:ILE:HD13	1:32:A:TYR:HB2	7	0.47
(3,371)	1:20:A:ILE:HB	1:21:A:VAL:H	6	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,611)	1:123:A:ILE:H	1:81:A:ASN:HB3	3	0.47
(2,531)	1:69:A:VAL:H	1:71:A:PRO:HD2	9	0.47
(2,398)	1:13:A:TYR:HB3	1:15:A:LEU:HD21	2	0.47
(2,398)	1:13:A:TYR:HB3	1:15:A:LEU:HD22	2	0.47
(2,398)	1:13:A:TYR:HB3	1:15:A:LEU:HD23	2	0.47
(2,338)	1:126:A:LEU:HB3	1:77:A:ILE:HG12	6	0.47
(1,3642)	1:13:A:TYR:H	1:45:A:LYS:HB2	5	0.47
(1,3545)	1:66:A:LEU:H	1:63:A:GLN:HG2	7	0.47
(1,3446)	1:68:A:THR:HG21	1:14:A:TRP:HE1	5	0.47
(1,3446)	1:68:A:THR:HG22	1:14:A:TRP:HE1	5	0.47
(1,3446)	1:68:A:THR:HG23	1:14:A:TRP:HE1	5	0.47
(1,3444)	1:63:A:GLN:HB3	1:14:A:TRP:HE1	4	0.47
(1,3444)	1:63:A:GLN:HB3	1:14:A:TRP:HE1	9	0.47
(1,3363)	1:15:A:LEU:H	1:15:A:LEU:HD11	10	0.47
(1,3363)	1:15:A:LEU:H	1:15:A:LEU:HD12	10	0.47
(1,3363)	1:15:A:LEU:H	1:15:A:LEU:HD13	10	0.47
(1,3245)	1:30:A:GLU:HG2	1:33:A:HIS:H	4	0.47
(1,3015)	1:32:A:TYR:HE1	1:57:A:ASP:H	8	0.47
(1,3015)	1:32:A:TYR:HE2	1:57:A:ASP:H	8	0.47
(1,2848)	1:76:A:ARG:H	1:76:A:ARG:HD2	5	0.47
(1,2792)	1:81:A:ASN:H	1:81:A:ASN:HB3	3	0.47
(1,2781)	1:85:A:ARG:HD2	1:82:A:GLY:H	5	0.47
(1,2749)	1:85:A:ARG:HG3	1:86:A:GLY:H	10	0.47
(1,2735)	1:85:A:ARG:HB3	1:87:A:ASN:H	10	0.47
(1,2646)	1:95:A:ASN:HB3	1:95:A:ASN:H	7	0.47
(1,2646)	1:95:A:ASN:HB3	1:95:A:ASN:H	9	0.47
(1,2571)	1:117:A:GLY:HA2	1:101:A:ALA:H	4	0.47
(1,2481)	1:106:A:GLU:HA	1:111:A:LYS:H	10	0.47
(1,2456)	1:115:A:VAL:HG11	1:114:A:ARG:H	4	0.47
(1,2456)	1:115:A:VAL:HG12	1:114:A:ARG:H	4	0.47
(1,2456)	1:115:A:VAL:HG13	1:114:A:ARG:H	4	0.47
(1,2456)	1:115:A:VAL:HG11	1:114:A:ARG:H	8	0.47
(1,2456)	1:115:A:VAL:HG12	1:114:A:ARG:H	8	0.47
(1,2456)	1:115:A:VAL:HG13	1:114:A:ARG:H	8	0.47
(1,2071)	1:126:A:LEU:HB2	1:76:A:ARG:HB3	1	0.47
(1,2034)	1:98:A:THR:HG21	1:95:A:ASN:HB3	9	0.47
(1,2034)	1:98:A:THR:HG22	1:95:A:ASN:HB3	9	0.47
(1,2034)	1:98:A:THR:HG23	1:95:A:ASN:HB3	9	0.47
(1,1938)	1:116:A:GLU:H	1:116:A:GLU:HG2	4	0.47
(1,1938)	1:116:A:GLU:H	1:116:A:GLU:HG2	8	0.47
(1,1823)	1:110:A:LEU:H	1:109:A:PRO:HG2	8	0.47
(1,1765)	1:105:A:ILE:HG21	1:87:A:ASN:HB2	7	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1765)	1:105:A:ILE:HG22	1:87:A:ASN:HB2	7	0.47
(1,1765)	1:105:A:ILE:HG23	1:87:A:ASN:HB2	7	0.47
(1,1640)	1:119:A:GLN:HA	1:100:A:SER:HB2	1	0.47
(1,1640)	1:119:A:GLN:HA	1:100:A:SER:HB2	4	0.47
(1,1640)	1:119:A:GLN:HA	1:100:A:SER:HB2	6	0.47
(1,1603)	1:96:A:GLU:HB2	1:96:A:GLU:H	4	0.47
(1,1481)	1:88:A:GLU:HG3	1:88:A:GLU:H	4	0.47
(1,1306)	1:77:A:ILE:HD11	1:90:A:THR:HA	10	0.47
(1,1306)	1:77:A:ILE:HD12	1:90:A:THR:HA	10	0.47
(1,1306)	1:77:A:ILE:HD13	1:90:A:THR:HA	10	0.47
(1,1220)	1:73:A:PRO:HA	1:91:A:LEU:HB2	1	0.47
(1,1214)	1:73:A:PRO:HD3	1:72:A:ALA:HB1	9	0.47
(1,1214)	1:73:A:PRO:HD3	1:72:A:ALA:HB2	9	0.47
(1,1214)	1:73:A:PRO:HD3	1:72:A:ALA:HB3	9	0.47
(1,1183)	1:71:A:PRO:HD3	1:70:A:ILE:HG21	9	0.47
(1,1183)	1:71:A:PRO:HD3	1:70:A:ILE:HG22	9	0.47
(1,1183)	1:71:A:PRO:HD3	1:70:A:ILE:HG23	9	0.47
(1,1062)	1:65:A:HIS:HB3	1:61:A:LEU:HB2	7	0.47
(1,889)	1:54:A:ASP:HB2	1:53:A:ILE:HG21	10	0.47
(1,889)	1:54:A:ASP:HB2	1:53:A:ILE:HG22	10	0.47
(1,889)	1:54:A:ASP:HB2	1:53:A:ILE:HG23	10	0.47
(1,816)	1:111:A:LYS:HD3	1:106:A:GLU:HA	1	0.47
(1,739)	1:45:A:LYS:HG2	1:45:A:LYS:HE2	7	0.47
(1,703)	1:43:A:ILE:H	1:43:A:ILE:HG12	8	0.47
(1,695)	1:14:A:TRP:HB3	1:80:A:LEU:HD11	2	0.47
(1,695)	1:14:A:TRP:HB3	1:80:A:LEU:HD12	2	0.47
(1,695)	1:14:A:TRP:HB3	1:80:A:LEU:HD13	2	0.47
(1,588)	1:53:A:ILE:HA	1:38:A:ILE:HG12	3	0.47
(1,577)	1:15:A:LEU:HD21	1:39:A:VAL:HG11	4	0.47
(1,577)	1:15:A:LEU:HD21	1:39:A:VAL:HG12	4	0.47
(1,577)	1:15:A:LEU:HD21	1:39:A:VAL:HG13	4	0.47
(1,577)	1:15:A:LEU:HD22	1:39:A:VAL:HG11	4	0.47
(1,577)	1:15:A:LEU:HD22	1:39:A:VAL:HG12	4	0.47
(1,577)	1:15:A:LEU:HD22	1:39:A:VAL:HG13	4	0.47
(1,577)	1:15:A:LEU:HD23	1:39:A:VAL:HG11	4	0.47
(1,577)	1:15:A:LEU:HD23	1:39:A:VAL:HG12	4	0.47
(1,577)	1:15:A:LEU:HD23	1:39:A:VAL:HG13	4	0.47
(1,440)	1:111:A:LYS:HD2	1:107:A:THR:HA	2	0.47
(1,314)	1:37:A:ALA:HB1	1:50:A:VAL:HG11	4	0.47
(1,314)	1:37:A:ALA:HB1	1:50:A:VAL:HG12	4	0.47
(1,314)	1:37:A:ALA:HB1	1:50:A:VAL:HG13	4	0.47
(1,314)	1:37:A:ALA:HB2	1:50:A:VAL:HG11	4	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,314)	1:37:A:ALA:HB2	1:50:A:VAL:HG12	4	0.47
(1,314)	1:37:A:ALA:HB2	1:50:A:VAL:HG13	4	0.47
(1,314)	1:37:A:ALA:HB3	1:50:A:VAL:HG11	4	0.47
(1,314)	1:37:A:ALA:HB3	1:50:A:VAL:HG12	4	0.47
(1,314)	1:37:A:ALA:HB3	1:50:A:VAL:HG13	4	0.47
(1,314)	1:37:A:ALA:HB1	1:50:A:VAL:HG11	9	0.47
(1,314)	1:37:A:ALA:HB1	1:50:A:VAL:HG12	9	0.47
(1,314)	1:37:A:ALA:HB1	1:50:A:VAL:HG13	9	0.47
(1,314)	1:37:A:ALA:HB2	1:50:A:VAL:HG11	9	0.47
(1,314)	1:37:A:ALA:HB2	1:50:A:VAL:HG12	9	0.47
(1,314)	1:37:A:ALA:HB2	1:50:A:VAL:HG13	9	0.47
(1,314)	1:37:A:ALA:HB3	1:50:A:VAL:HG11	9	0.47
(1,314)	1:37:A:ALA:HB3	1:50:A:VAL:HG12	9	0.47
(1,314)	1:37:A:ALA:HB3	1:50:A:VAL:HG13	9	0.47
(1,201)	1:73:A:PRO:HG2	1:91:A:LEU:HD11	2	0.47
(1,201)	1:73:A:PRO:HG2	1:91:A:LEU:HD12	2	0.47
(1,201)	1:73:A:PRO:HG2	1:91:A:LEU:HD13	2	0.47
(1,201)	1:73:A:PRO:HG2	1:91:A:LEU:HD11	8	0.47
(1,201)	1:73:A:PRO:HG2	1:91:A:LEU:HD12	8	0.47
(1,201)	1:73:A:PRO:HG2	1:91:A:LEU:HD13	8	0.47
(1,169)	1:80:A:LEU:HD21	1:16:A:GLN:HG3	1	0.47
(1,169)	1:80:A:LEU:HD22	1:16:A:GLN:HG3	1	0.47
(1,169)	1:80:A:LEU:HD23	1:16:A:GLN:HG3	1	0.47
(1,52)	1:61:A:LEU:HD11	1:25:A:THR:HB	8	0.47
(1,52)	1:61:A:LEU:HD12	1:25:A:THR:HB	8	0.47
(1,52)	1:61:A:LEU:HD13	1:25:A:THR:HB	8	0.47
(3,919)	1:75:A:LYS:HD3	1:72:A:ALA:H	9	0.46
(3,767)	1:77:A:ILE:H	1:77:A:ILE:HD12	9	0.46
(3,671)	1:40:A:LYS:HB3	1:41:A:GLU:H	2	0.46
(3,568)	1:78:A:LEU:HD11	1:78:A:LEU:HD23	1	0.46
(3,403)	1:113:A:ARG:HB2	1:105:A:ILE:H	4	0.46
(3,403)	1:113:A:ARG:HB2	1:105:A:ILE:H	8	0.46
(3,293)	1:27:A:LYS:HG3	1:27:A:LYS:HA	9	0.46
(3,291)	1:114:A:ARG:H	1:114:A:ARG:HG2	1	0.46
(3,146)	1:115:A:VAL:H	1:114:A:ARG:HG2	7	0.46
(3,4)	1:102:A:THR:HG21	1:116:A:GLU:H	1	0.46
(2,338)	1:126:A:LEU:HB3	1:77:A:ILE:HG12	2	0.46
(1,3835)	1:62:A:ASP:H	1:65:A:HIS:HD2	8	0.46
(1,3780)	1:63:A:GLN:HB2	1:46:A:TYR:HD1	2	0.46
(1,3780)	1:63:A:GLN:HB2	1:46:A:TYR:HD2	2	0.46
(1,3615)	1:119:A:GLN:HE21	1:100:A:SER:HB2	2	0.46
(1,3368)	1:15:A:LEU:H	1:13:A:TYR:HB3	7	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3243)	1:30:A:GLU:HB2	1:33:A:HIS:H	5	0.46
(1,3113)	1:44:A:ASP:HB2	1:46:A:TYR:H	6	0.46
(1,2906)	1:68:A:THR:H	1:66:A:LEU:HA	2	0.46
(1,2906)	1:68:A:THR:H	1:66:A:LEU:HA	6	0.46
(1,2749)	1:85:A:ARG:HG3	1:86:A:GLY:H	7	0.46
(1,2436)	1:115:A:VAL:HB	1:116:A:GLU:H	10	0.46
(1,2346)	1:124:A:SER:H	1:78:A:LEU:HB2	8	0.46
(1,2183)	1:111:A:LYS:HE2	1:111:A:LYS:HA	3	0.46
(1,2161)	1:115:A:VAL:HG21	1:118:A:ILE:HG13	3	0.46
(1,2161)	1:115:A:VAL:HG22	1:118:A:ILE:HG13	3	0.46
(1,2161)	1:115:A:VAL:HG23	1:118:A:ILE:HG13	3	0.46
(1,1823)	1:110:A:LEU:H	1:109:A:PRO:HG2	4	0.46
(1,1640)	1:119:A:GLN:HA	1:100:A:SER:HB2	5	0.46
(1,1640)	1:119:A:GLN:HA	1:100:A:SER:HB2	7	0.46
(1,1640)	1:119:A:GLN:HA	1:100:A:SER:HB2	10	0.46
(1,1603)	1:96:A:GLU:HB2	1:96:A:GLU:H	3	0.46
(1,1603)	1:96:A:GLU:HB2	1:96:A:GLU:H	5	0.46
(1,1603)	1:96:A:GLU:HB2	1:96:A:GLU:H	9	0.46
(1,1584)	1:120:A:TYR:HD1	1:94:A:ILE:HG21	7	0.46
(1,1584)	1:120:A:TYR:HD1	1:94:A:ILE:HG22	7	0.46
(1,1584)	1:120:A:TYR:HD1	1:94:A:ILE:HG23	7	0.46
(1,1584)	1:120:A:TYR:HD2	1:94:A:ILE:HG21	7	0.46
(1,1584)	1:120:A:TYR:HD2	1:94:A:ILE:HG22	7	0.46
(1,1584)	1:120:A:TYR:HD2	1:94:A:ILE:HG23	7	0.46
(1,1532)	1:93:A:SER:HA	1:73:A:PRO:HG2	6	0.46
(1,1351)	1:48:A:ALA:HB1	1:42:A:VAL:HA	5	0.46
(1,1351)	1:48:A:ALA:HB2	1:42:A:VAL:HA	5	0.46
(1,1351)	1:48:A:ALA:HB3	1:42:A:VAL:HA	5	0.46
(1,1275)	1:97:A:LYS:H	1:97:A:LYS:HB3	7	0.46
(1,1275)	1:97:A:LYS:H	1:97:A:LYS:HB3	8	0.46
(1,1275)	1:97:A:LYS:H	1:97:A:LYS:HB3	10	0.46
(1,1220)	1:73:A:PRO:HA	1:91:A:LEU:HB2	5	0.46
(1,1184)	1:70:A:ILE:HG12	1:70:A:ILE:HG21	6	0.46
(1,1184)	1:70:A:ILE:HG12	1:70:A:ILE:HG22	6	0.46
(1,1184)	1:70:A:ILE:HG12	1:70:A:ILE:HG23	6	0.46
(1,1184)	1:70:A:ILE:HG12	1:70:A:ILE:HG21	10	0.46
(1,1184)	1:70:A:ILE:HG12	1:70:A:ILE:HG22	10	0.46
(1,1184)	1:70:A:ILE:HG12	1:70:A:ILE:HG23	10	0.46
(1,711)	1:45:A:LYS:H	1:44:A:ASP:HB2	8	0.46
(1,588)	1:53:A:ILE:HA	1:38:A:ILE:HG12	4	0.46
(1,565)	1:17:A:PRO:HA	1:39:A:VAL:HG21	1	0.46
(1,565)	1:17:A:PRO:HA	1:39:A:VAL:HG22	1	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,565)	1:17:A:PRO:HA	1:39:A:VAL:HG23	1	0.46
(1,565)	1:17:A:PRO:HA	1:39:A:VAL:HG21	3	0.46
(1,565)	1:17:A:PRO:HA	1:39:A:VAL:HG22	3	0.46
(1,565)	1:17:A:PRO:HA	1:39:A:VAL:HG23	3	0.46
(1,565)	1:17:A:PRO:HA	1:39:A:VAL:HG21	5	0.46
(1,565)	1:17:A:PRO:HA	1:39:A:VAL:HG22	5	0.46
(1,565)	1:17:A:PRO:HA	1:39:A:VAL:HG23	5	0.46
(1,451)	1:28:A:LEU:H	1:28:A:LEU:HD11	2	0.46
(1,451)	1:28:A:LEU:H	1:28:A:LEU:HD12	2	0.46
(1,451)	1:28:A:LEU:H	1:28:A:LEU:HD13	2	0.46
(1,390)	1:24:A:ILE:HD11	1:67:A:GLU:HB3	8	0.46
(1,390)	1:24:A:ILE:HD12	1:67:A:GLU:HB3	8	0.46
(1,390)	1:24:A:ILE:HD13	1:67:A:GLU:HB3	8	0.46
(1,270)	1:126:A:LEU:HA	1:19:A:ILE:HG21	2	0.46
(1,270)	1:126:A:LEU:HA	1:19:A:ILE:HG22	2	0.46
(1,270)	1:126:A:LEU:HA	1:19:A:ILE:HG23	2	0.46
(3,1155)	1:118:A:ILE:HG21	1:119:A:GLN:H	7	0.45
(3,1113)	1:81:A:ASN:HD22	1:14:A:TRP:HB3	5	0.45
(3,1042)	1:19:A:ILE:HA	1:127:A:ALA:HA	7	0.45
(3,951)	1:80:A:LEU:HD12	1:124:A:SER:H	5	0.45
(3,799)	1:48:A:ALA:H	1:60:A:LYS:HD3	5	0.45
(3,676)	1:108:A:GLY:H	1:107:A:THR:HG21	8	0.45
(3,568)	1:19:A:ILE:HG22	1:78:A:LEU:HD12	5	0.45
(3,568)	1:19:A:ILE:HG23	1:78:A:LEU:HD12	10	0.45
(3,471)	1:24:A:ILE:H	1:24:A:ILE:HG13	3	0.45
(3,371)	1:20:A:ILE:HB	1:21:A:VAL:H	1	0.45
(3,30)	1:103:A:ILE:H	1:103:A:ILE:HD13	3	0.45
(3,30)	1:103:A:ILE:H	1:103:A:ILE:HD13	9	0.45
(3,22)	1:9:A:ALA:HB1	1:11:A:THR:H	2	0.45
(2,574)	1:39:A:VAL:H	1:20:A:ILE:HG12	10	0.45
(2,393)	1:73:A:PRO:HG2	1:70:A:ILE:HG21	3	0.45
(2,393)	1:73:A:PRO:HG2	1:70:A:ILE:HG22	3	0.45
(2,393)	1:73:A:PRO:HG2	1:70:A:ILE:HG23	3	0.45
(2,304)	1:105:A:ILE:HB	1:115:A:VAL:HG11	8	0.45
(2,304)	1:105:A:ILE:HB	1:115:A:VAL:HG12	8	0.45
(2,304)	1:105:A:ILE:HB	1:115:A:VAL:HG13	8	0.45
(1,3866)	1:120:A:TYR:HE1	1:99:A:PHE:H	10	0.45
(1,3866)	1:120:A:TYR:HE2	1:99:A:PHE:H	10	0.45
(1,3737)	1:5:A:LYS:H	1:3:A:GLU:H	3	0.45
(1,3718)	1:87:A:ASN:HD21	1:79:A:VAL:HB	9	0.45
(1,3697)	1:68:A:THR:H	1:14:A:TRP:HE1	3	0.45
(1,3676)	1:49:A:VAL:H	1:43:A:ILE:HB	5	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3475)	1:19:A:ILE:HD11	1:18:A:GLU:H	3	0.45
(1,3475)	1:19:A:ILE:HD12	1:18:A:GLU:H	3	0.45
(1,3475)	1:19:A:ILE:HD13	1:18:A:GLU:H	3	0.45
(1,3460)	1:78:A:LEU:HD11	1:16:A:GLN:HE22	7	0.45
(1,3460)	1:78:A:LEU:HD12	1:16:A:GLN:HE22	7	0.45
(1,3460)	1:78:A:LEU:HD13	1:16:A:GLN:HE22	7	0.45
(1,3444)	1:63:A:GLN:HB3	1:14:A:TRP:HE1	7	0.45
(1,3176)	1:51:A:LYS:HB3	1:40:A:LYS:H	10	0.45
(1,3089)	1:48:A:ALA:H	1:63:A:GLN:HA	6	0.45
(1,3027)	1:10:A:ARG:HB2	1:81:A:ASN:HD21	2	0.45
(1,2985)	1:61:A:LEU:HB2	1:62:A:ASP:H	4	0.45
(1,2887)	1:70:A:ILE:H	1:70:A:ILE:HG13	4	0.45
(1,2859)	1:75:A:LYS:HE2	1:75:A:LYS:H	5	0.45
(1,2848)	1:76:A:ARG:H	1:76:A:ARG:HD2	2	0.45
(1,2736)	1:79:A:VAL:HG21	1:87:A:ASN:H	5	0.45
(1,2736)	1:79:A:VAL:HG22	1:87:A:ASN:H	5	0.45
(1,2736)	1:79:A:VAL:HG23	1:87:A:ASN:H	5	0.45
(1,2735)	1:85:A:ARG:HB3	1:87:A:ASN:H	2	0.45
(1,2608)	1:97:A:LYS:HB3	1:98:A:THR:H	4	0.45
(1,2608)	1:97:A:LYS:HB3	1:98:A:THR:H	8	0.45
(1,2461)	1:84:A:TYR:HE1	1:113:A:ARG:H	2	0.45
(1,2461)	1:84:A:TYR:HE2	1:113:A:ARG:H	2	0.45
(1,2287)	1:20:A:ILE:HA	1:38:A:ILE:HG13	2	0.45
(1,2244)	1:15:A:LEU:HB2	1:48:A:ALA:HB1	1	0.45
(1,2244)	1:15:A:LEU:HB2	1:48:A:ALA:HB2	1	0.45
(1,2244)	1:15:A:LEU:HB2	1:48:A:ALA:HB3	1	0.45
(1,2240)	1:79:A:VAL:HG11	1:123:A:ILE:HG21	10	0.45
(1,2240)	1:79:A:VAL:HG11	1:123:A:ILE:HG22	10	0.45
(1,2240)	1:79:A:VAL:HG11	1:123:A:ILE:HG23	10	0.45
(1,2240)	1:79:A:VAL:HG12	1:123:A:ILE:HG21	10	0.45
(1,2240)	1:79:A:VAL:HG12	1:123:A:ILE:HG22	10	0.45
(1,2240)	1:79:A:VAL:HG12	1:123:A:ILE:HG23	10	0.45
(1,2240)	1:79:A:VAL:HG13	1:123:A:ILE:HG21	10	0.45
(1,2240)	1:79:A:VAL:HG13	1:123:A:ILE:HG22	10	0.45
(1,2240)	1:79:A:VAL:HG13	1:123:A:ILE:HG23	10	0.45
(1,2168)	1:61:A:LEU:HG	1:65:A:HIS:HB3	8	0.45
(1,2162)	1:115:A:VAL:HG21	1:113:A:ARG:HD3	5	0.45
(1,2162)	1:115:A:VAL:HG22	1:113:A:ARG:HD3	5	0.45
(1,2162)	1:115:A:VAL:HG23	1:113:A:ARG:HD3	5	0.45
(1,2122)	1:78:A:LEU:HA	1:123:A:ILE:HG21	1	0.45
(1,2122)	1:78:A:LEU:HA	1:123:A:ILE:HG22	1	0.45
(1,2122)	1:78:A:LEU:HA	1:123:A:ILE:HG23	1	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2032)	1:78:A:LEU:H	1:123:A:ILE:HG21	6	0.45
(1,2032)	1:78:A:LEU:H	1:123:A:ILE:HG22	6	0.45
(1,2032)	1:78:A:LEU:H	1:123:A:ILE:HG23	6	0.45
(1,2032)	1:78:A:LEU:H	1:123:A:ILE:HG21	10	0.45
(1,2032)	1:78:A:LEU:H	1:123:A:ILE:HG22	10	0.45
(1,2032)	1:78:A:LEU:H	1:123:A:ILE:HG23	10	0.45
(1,2007)	1:78:A:LEU:H	1:123:A:ILE:HA	6	0.45
(1,2007)	1:78:A:LEU:H	1:123:A:ILE:HA	9	0.45
(1,1938)	1:116:A:GLU:H	1:116:A:GLU:HG2	6	0.45
(1,1603)	1:96:A:GLU:HB2	1:96:A:GLU:H	7	0.45
(1,1603)	1:96:A:GLU:HB2	1:96:A:GLU:H	8	0.45
(1,1603)	1:96:A:GLU:HB2	1:96:A:GLU:H	10	0.45
(1,1532)	1:93:A:SER:HA	1:73:A:PRO:HG2	9	0.45
(1,1275)	1:97:A:LYS:H	1:97:A:LYS:HB3	3	0.45
(1,1275)	1:97:A:LYS:H	1:97:A:LYS:HB3	9	0.45
(1,1184)	1:70:A:ILE:HG12	1:70:A:ILE:HG21	1	0.45
(1,1184)	1:70:A:ILE:HG12	1:70:A:ILE:HG22	1	0.45
(1,1184)	1:70:A:ILE:HG12	1:70:A:ILE:HG23	1	0.45
(1,1184)	1:70:A:ILE:HG12	1:70:A:ILE:HG21	2	0.45
(1,1184)	1:70:A:ILE:HG12	1:70:A:ILE:HG22	2	0.45
(1,1184)	1:70:A:ILE:HG12	1:70:A:ILE:HG23	2	0.45
(1,1184)	1:70:A:ILE:HG12	1:70:A:ILE:HG21	3	0.45
(1,1184)	1:70:A:ILE:HG12	1:70:A:ILE:HG22	3	0.45
(1,1184)	1:70:A:ILE:HG12	1:70:A:ILE:HG23	3	0.45
(1,1184)	1:70:A:ILE:HG12	1:70:A:ILE:HG21	4	0.45
(1,1184)	1:70:A:ILE:HG12	1:70:A:ILE:HG22	4	0.45
(1,1184)	1:70:A:ILE:HG12	1:70:A:ILE:HG23	4	0.45
(1,1184)	1:70:A:ILE:HG12	1:70:A:ILE:HG21	5	0.45
(1,1184)	1:70:A:ILE:HG12	1:70:A:ILE:HG22	5	0.45
(1,1184)	1:70:A:ILE:HG12	1:70:A:ILE:HG23	5	0.45
(1,1184)	1:70:A:ILE:HG12	1:70:A:ILE:HG21	7	0.45
(1,1184)	1:70:A:ILE:HG12	1:70:A:ILE:HG22	7	0.45
(1,1184)	1:70:A:ILE:HG12	1:70:A:ILE:HG23	7	0.45
(1,1184)	1:70:A:ILE:HG12	1:70:A:ILE:HG21	8	0.45
(1,1184)	1:70:A:ILE:HG12	1:70:A:ILE:HG22	8	0.45
(1,1184)	1:70:A:ILE:HG12	1:70:A:ILE:HG23	8	0.45
(1,1184)	1:70:A:ILE:HG12	1:70:A:ILE:HG21	9	0.45
(1,1184)	1:70:A:ILE:HG12	1:70:A:ILE:HG22	9	0.45
(1,1184)	1:70:A:ILE:HG12	1:70:A:ILE:HG23	9	0.45
(1,888)	1:54:A:ASP:HB2	1:53:A:ILE:HB	1	0.45
(1,855)	1:37:A:ALA:H	1:53:A:ILE:HD11	2	0.45
(1,855)	1:37:A:ALA:H	1:53:A:ILE:HD12	2	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,855)	1:37:A:ALA:H	1:53:A:ILE:HD13	2	0.45
(1,739)	1:45:A:LYS:HG2	1:45:A:LYS:HE2	5	0.45
(1,711)	1:45:A:LYS:H	1:44:A:ASP:HB2	7	0.45
(1,686)	1:41:A:GLU:HG3	1:43:A:ILE:HD11	8	0.45
(1,686)	1:41:A:GLU:HG3	1:43:A:ILE:HD12	8	0.45
(1,686)	1:41:A:GLU:HG3	1:43:A:ILE:HD13	8	0.45
(1,290)	1:20:A:ILE:HG13	1:127:A:ALA:HA	5	0.45
(1,266)	1:127:A:ALA:H	1:19:A:ILE:HG21	3	0.45
(1,266)	1:127:A:ALA:H	1:19:A:ILE:HG22	3	0.45
(1,266)	1:127:A:ALA:H	1:19:A:ILE:HG23	3	0.45
(1,169)	1:80:A:LEU:HD21	1:16:A:GLN:HG3	3	0.45
(1,169)	1:80:A:LEU:HD22	1:16:A:GLN:HG3	3	0.45
(1,169)	1:80:A:LEU:HD23	1:16:A:GLN:HG3	3	0.45
(1,143)	1:15:A:LEU:HD11	1:63:A:GLN:HB2	6	0.45
(1,143)	1:15:A:LEU:HD12	1:63:A:GLN:HB2	6	0.45
(1,143)	1:15:A:LEU:HD13	1:63:A:GLN:HB2	6	0.45
(1,82)	1:122:A:ASP:HA	1:81:A:ASN:HB3	10	0.45
(3,1189)	1:78:A:LEU:HA	1:79:A:VAL:HB	1	0.44
(3,1184)	1:55:A:SER:HB3	1:57:A:ASP:HB2	2	0.44
(3,1172)	1:118:A:ILE:HG12	1:103:A:ILE:HG13	2	0.44
(3,1087)	1:61:A:LEU:HD11	1:59:A:LEU:HB3	5	0.44
(3,1087)	1:61:A:LEU:HD12	1:59:A:LEU:HB3	5	0.44
(3,1087)	1:61:A:LEU:HD13	1:59:A:LEU:HB3	5	0.44
(3,995)	1:102:A:THR:HG21	1:116:A:GLU:H	10	0.44
(3,951)	1:80:A:LEU:HD11	1:124:A:SER:H	10	0.44
(3,936)	1:77:A:ILE:HG13	1:103:A:ILE:HB	3	0.44
(3,936)	1:77:A:ILE:HG13	1:103:A:ILE:HB	4	0.44
(3,671)	1:40:A:LYS:HB3	1:41:A:GLU:H	9	0.44
(3,600)	1:20:A:ILE:HB	1:21:A:VAL:H	6	0.44
(3,582)	1:118:A:ILE:HD11	1:118:A:ILE:H	3	0.44
(3,561)	1:40:A:LYS:HE3	1:40:A:LYS:HB2	8	0.44
(3,518)	1:26:A:LYS:HD2	1:30:A:GLU:HG2	1	0.44
(3,471)	1:24:A:ILE:H	1:24:A:ILE:HG13	1	0.44
(3,471)	1:24:A:ILE:H	1:24:A:ILE:HG13	6	0.44
(3,300)	1:11:A:THR:HG23	1:13:A:TYR:HE2	2	0.44
(3,264)	1:77:A:ILE:H	1:91:A:LEU:H	6	0.44
(3,165)	1:79:A:VAL:HG12	1:88:A:GLU:HA	6	0.44
(3,153)	1:91:A:LEU:HD11	1:102:A:THR:H	4	0.44
(2,531)	1:69:A:VAL:H	1:71:A:PRO:HD2	3	0.44
(1,3777)	1:45:A:LYS:HG2	1:46:A:TYR:HD1	4	0.44
(1,3777)	1:45:A:LYS:HG2	1:46:A:TYR:HD2	4	0.44
(1,3714)	1:84:A:TYR:HD1	1:87:A:ASN:HD22	5	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3714)	1:84:A:TYR:HD2	1:87:A:ASN:HD22	5	0.44
(1,3642)	1:13:A:TYR:H	1:45:A:LYS:HB2	1	0.44
(1,3642)	1:13:A:TYR:H	1:45:A:LYS:HB2	3	0.44
(1,3599)	1:98:A:THR:HG21	1:95:A:ASN:HD22	7	0.44
(1,3599)	1:98:A:THR:HG22	1:95:A:ASN:HD22	7	0.44
(1,3599)	1:98:A:THR:HG23	1:95:A:ASN:HD22	7	0.44
(1,3575)	1:87:A:ASN:H	1:87:A:ASN:HD22	3	0.44
(1,3460)	1:78:A:LEU:HD11	1:16:A:GLN:HE22	8	0.44
(1,3460)	1:78:A:LEU:HD12	1:16:A:GLN:HE22	8	0.44
(1,3460)	1:78:A:LEU:HD13	1:16:A:GLN:HE22	8	0.44
(1,3446)	1:68:A:THR:HG21	1:14:A:TRP:HE1	9	0.44
(1,3446)	1:68:A:THR:HG22	1:14:A:TRP:HE1	9	0.44
(1,3446)	1:68:A:THR:HG23	1:14:A:TRP:HE1	9	0.44
(1,3444)	1:63:A:GLN:HB3	1:14:A:TRP:HE1	2	0.44
(1,3209)	1:36:A:LYS:H	1:53:A:ILE:HD11	10	0.44
(1,3209)	1:36:A:LYS:H	1:53:A:ILE:HD12	10	0.44
(1,3209)	1:36:A:LYS:H	1:53:A:ILE:HD13	10	0.44
(1,2985)	1:61:A:LEU:HB2	1:62:A:ASP:H	1	0.44
(1,2976)	1:63:A:GLN:H	1:14:A:TRP:HE1	2	0.44
(1,2976)	1:63:A:GLN:H	1:14:A:TRP:HE1	4	0.44
(1,2816)	1:85:A:ARG:HA	1:79:A:VAL:H	7	0.44
(1,2749)	1:85:A:ARG:HG3	1:86:A:GLY:H	3	0.44
(1,2709)	1:103:A:ILE:HB	1:89:A:GLY:H	8	0.44
(1,2621)	1:97:A:LYS:H	1:97:A:LYS:HD3	2	0.44
(1,2592)	1:97:A:LYS:HB3	1:100:A:SER:H	5	0.44
(1,2346)	1:124:A:SER:H	1:78:A:LEU:HB2	2	0.44
(1,2244)	1:15:A:LEU:HB2	1:48:A:ALA:HB1	2	0.44
(1,2244)	1:15:A:LEU:HB2	1:48:A:ALA:HB2	2	0.44
(1,2244)	1:15:A:LEU:HB2	1:48:A:ALA:HB3	2	0.44
(1,2244)	1:15:A:LEU:HB2	1:48:A:ALA:HB1	4	0.44
(1,2244)	1:15:A:LEU:HB2	1:48:A:ALA:HB2	4	0.44
(1,2244)	1:15:A:LEU:HB2	1:48:A:ALA:HB3	4	0.44
(1,2211)	1:84:A:TYR:HE1	1:103:A:ILE:HD11	7	0.44
(1,2211)	1:84:A:TYR:HE1	1:103:A:ILE:HD12	7	0.44
(1,2211)	1:84:A:TYR:HE1	1:103:A:ILE:HD13	7	0.44
(1,2211)	1:84:A:TYR:HE2	1:103:A:ILE:HD11	7	0.44
(1,2211)	1:84:A:TYR:HE2	1:103:A:ILE:HD12	7	0.44
(1,2211)	1:84:A:TYR:HE2	1:103:A:ILE:HD13	7	0.44
(1,2178)	1:104:A:VAL:HG21	1:112:A:GLY:HA3	6	0.44
(1,2178)	1:104:A:VAL:HG22	1:112:A:GLY:HA3	6	0.44
(1,2178)	1:104:A:VAL:HG23	1:112:A:GLY:HA3	6	0.44
(1,2168)	1:61:A:LEU:HG	1:65:A:HIS:HB3	10	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2122)	1:78:A:LEU:HA	1:123:A:ILE:HG21	6	0.44
(1,2122)	1:78:A:LEU:HA	1:123:A:ILE:HG22	6	0.44
(1,2122)	1:78:A:LEU:HA	1:123:A:ILE:HG23	6	0.44
(1,2034)	1:98:A:THR:HG21	1:95:A:ASN:HB3	1	0.44
(1,2034)	1:98:A:THR:HG22	1:95:A:ASN:HB3	1	0.44
(1,2034)	1:98:A:THR:HG23	1:95:A:ASN:HB3	1	0.44
(1,1892)	1:113:A:ARG:HD2	1:114:A:ARG:H	10	0.44
(1,1762)	1:105:A:ILE:HG21	1:106:A:GLU:HA	1	0.44
(1,1762)	1:105:A:ILE:HG22	1:106:A:GLU:HA	1	0.44
(1,1762)	1:105:A:ILE:HG23	1:106:A:GLU:HA	1	0.44
(1,1640)	1:119:A:GLN:HA	1:100:A:SER:HB2	8	0.44
(1,1539)	1:92:A:GLU:HA	1:92:A:GLU:HG3	1	0.44
(1,1539)	1:92:A:GLU:HA	1:92:A:GLU:HG3	3	0.44
(1,1492)	1:104:A:VAL:H	1:90:A:THR:HB	3	0.44
(1,1275)	1:97:A:LYS:H	1:97:A:LYS:HB3	1	0.44
(1,1275)	1:97:A:LYS:H	1:97:A:LYS:HB3	4	0.44
(1,1214)	1:73:A:PRO:HD3	1:72:A:ALA:HB1	8	0.44
(1,1214)	1:73:A:PRO:HD3	1:72:A:ALA:HB2	8	0.44
(1,1214)	1:73:A:PRO:HD3	1:72:A:ALA:HB3	8	0.44
(1,889)	1:54:A:ASP:HB2	1:53:A:ILE:HG21	7	0.44
(1,889)	1:54:A:ASP:HB2	1:53:A:ILE:HG22	7	0.44
(1,889)	1:54:A:ASP:HB2	1:53:A:ILE:HG23	7	0.44
(1,804)	1:50:A:VAL:HG21	1:59:A:LEU:HD21	10	0.44
(1,804)	1:50:A:VAL:HG21	1:59:A:LEU:HD22	10	0.44
(1,804)	1:50:A:VAL:HG21	1:59:A:LEU:HD23	10	0.44
(1,804)	1:50:A:VAL:HG22	1:59:A:LEU:HD21	10	0.44
(1,804)	1:50:A:VAL:HG22	1:59:A:LEU:HD22	10	0.44
(1,804)	1:50:A:VAL:HG22	1:59:A:LEU:HD23	10	0.44
(1,804)	1:50:A:VAL:HG23	1:59:A:LEU:HD21	10	0.44
(1,804)	1:50:A:VAL:HG23	1:59:A:LEU:HD22	10	0.44
(1,804)	1:50:A:VAL:HG23	1:59:A:LEU:HD23	10	0.44
(1,703)	1:43:A:ILE:H	1:43:A:ILE:HG12	2	0.44
(1,703)	1:43:A:ILE:H	1:43:A:ILE:HG12	4	0.44
(1,703)	1:43:A:ILE:H	1:43:A:ILE:HG12	5	0.44
(1,703)	1:43:A:ILE:H	1:43:A:ILE:HG12	6	0.44
(1,703)	1:43:A:ILE:H	1:43:A:ILE:HG12	9	0.44
(1,621)	1:41:A:GLU:HA	1:41:A:GLU:HG3	6	0.44
(1,588)	1:53:A:ILE:HA	1:38:A:ILE:HG12	7	0.44
(1,578)	1:42:A:VAL:HG11	1:39:A:VAL:HG21	8	0.44
(1,578)	1:42:A:VAL:HG11	1:39:A:VAL:HG22	8	0.44
(1,578)	1:42:A:VAL:HG11	1:39:A:VAL:HG23	8	0.44
(1,578)	1:42:A:VAL:HG12	1:39:A:VAL:HG21	8	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,578)	1:42:A:VAL:HG12	1:39:A:VAL:HG22	8	0.44
(1,578)	1:42:A:VAL:HG12	1:39:A:VAL:HG23	8	0.44
(1,578)	1:42:A:VAL:HG13	1:39:A:VAL:HG21	8	0.44
(1,578)	1:42:A:VAL:HG13	1:39:A:VAL:HG22	8	0.44
(1,578)	1:42:A:VAL:HG13	1:39:A:VAL:HG23	8	0.44
(1,451)	1:28:A:LEU:H	1:28:A:LEU:HD11	7	0.44
(1,451)	1:28:A:LEU:H	1:28:A:LEU:HD12	7	0.44
(1,451)	1:28:A:LEU:H	1:28:A:LEU:HD13	7	0.44
(1,367)	1:23:A:ILE:HG21	1:23:A:ILE:HG13	1	0.44
(1,367)	1:23:A:ILE:HG22	1:23:A:ILE:HG13	1	0.44
(1,367)	1:23:A:ILE:HG23	1:23:A:ILE:HG13	1	0.44
(1,367)	1:23:A:ILE:HG21	1:23:A:ILE:HG13	9	0.44
(1,367)	1:23:A:ILE:HG22	1:23:A:ILE:HG13	9	0.44
(1,367)	1:23:A:ILE:HG23	1:23:A:ILE:HG13	9	0.44
(1,314)	1:37:A:ALA:HB1	1:50:A:VAL:HG11	2	0.44
(1,314)	1:37:A:ALA:HB1	1:50:A:VAL:HG12	2	0.44
(1,314)	1:37:A:ALA:HB1	1:50:A:VAL:HG13	2	0.44
(1,314)	1:37:A:ALA:HB2	1:50:A:VAL:HG11	2	0.44
(1,314)	1:37:A:ALA:HB2	1:50:A:VAL:HG12	2	0.44
(1,314)	1:37:A:ALA:HB2	1:50:A:VAL:HG13	2	0.44
(1,314)	1:37:A:ALA:HB3	1:50:A:VAL:HG11	2	0.44
(1,314)	1:37:A:ALA:HB3	1:50:A:VAL:HG12	2	0.44
(1,314)	1:37:A:ALA:HB3	1:50:A:VAL:HG13	2	0.44
(1,314)	1:37:A:ALA:HB1	1:50:A:VAL:HG11	8	0.44
(1,314)	1:37:A:ALA:HB1	1:50:A:VAL:HG12	8	0.44
(1,314)	1:37:A:ALA:HB1	1:50:A:VAL:HG13	8	0.44
(1,314)	1:37:A:ALA:HB2	1:50:A:VAL:HG11	8	0.44
(1,314)	1:37:A:ALA:HB2	1:50:A:VAL:HG12	8	0.44
(1,314)	1:37:A:ALA:HB2	1:50:A:VAL:HG13	8	0.44
(1,314)	1:37:A:ALA:HB3	1:50:A:VAL:HG11	8	0.44
(1,314)	1:37:A:ALA:HB3	1:50:A:VAL:HG12	8	0.44
(1,314)	1:37:A:ALA:HB3	1:50:A:VAL:HG13	8	0.44
(1,287)	1:20:A:ILE:HD11	1:20:A:ILE:H	4	0.44
(1,287)	1:20:A:ILE:HD12	1:20:A:ILE:H	4	0.44
(1,287)	1:20:A:ILE:HD13	1:20:A:ILE:H	4	0.44
(1,178)	1:17:A:PRO:HA	1:39:A:VAL:HG21	8	0.44
(1,178)	1:17:A:PRO:HA	1:39:A:VAL:HG22	8	0.44
(1,178)	1:17:A:PRO:HA	1:39:A:VAL:HG23	8	0.44
(1,170)	1:78:A:LEU:HD11	1:16:A:GLN:HG3	2	0.44
(1,170)	1:78:A:LEU:HD12	1:16:A:GLN:HG3	2	0.44
(1,170)	1:78:A:LEU:HD13	1:16:A:GLN:HG3	2	0.44
(1,52)	1:61:A:LEU:HD11	1:25:A:THR:HB	2	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,52)	1:61:A:LEU:HD12	1:25:A:THR:HB	2	0.44
(1,52)	1:61:A:LEU:HD13	1:25:A:THR:HB	2	0.44
(3,1189)	1:78:A:LEU:HA	1:79:A:VAL:HB	3	0.43
(3,1189)	1:78:A:LEU:HA	1:79:A:VAL:HB	6	0.43
(3,1178)	1:109:A:PRO:HB2	1:109:A:PRO:HD3	5	0.43
(3,1178)	1:109:A:PRO:HB2	1:109:A:PRO:HD3	10	0.43
(3,981)	1:38:A:ILE:HG13	1:38:A:ILE:HD13	3	0.43
(3,981)	1:38:A:ILE:HG13	1:38:A:ILE:HD11	4	0.43
(3,981)	1:38:A:ILE:HG13	1:38:A:ILE:HD11	6	0.43
(3,981)	1:38:A:ILE:HG13	1:38:A:ILE:HD13	9	0.43
(3,841)	1:80:A:LEU:H	1:123:A:ILE:HG22	10	0.43
(3,799)	1:48:A:ALA:H	1:60:A:LYS:HD3	10	0.43
(3,751)	1:43:A:ILE:HG23	1:43:A:ILE:H	7	0.43
(3,680)	1:64:A:THR:H	1:24:A:ILE:HD11	10	0.43
(3,634)	1:103:A:ILE:HG12	1:104:A:VAL:H	2	0.43
(3,568)	1:19:A:ILE:HG22	1:78:A:LEU:HD12	9	0.43
(3,471)	1:24:A:ILE:H	1:24:A:ILE:HG13	7	0.43
(3,471)	1:127:A:ALA:HB2	1:20:A:ILE:H	10	0.43
(3,293)	1:27:A:LYS:HG3	1:27:A:LYS:HA	6	0.43
(3,187)	1:16:A:GLN:H	1:14:A:TRP:HZ3	5	0.43
(3,174)	1:96:A:GLU:HB2	1:97:A:LYS:H	8	0.43
(2,398)	1:13:A:TYR:HB3	1:15:A:LEU:HD21	10	0.43
(2,398)	1:13:A:TYR:HB3	1:15:A:LEU:HD22	10	0.43
(2,398)	1:13:A:TYR:HB3	1:15:A:LEU:HD23	10	0.43
(2,351)	1:10:A:ARG:HG2	1:81:A:ASN:HB3	2	0.43
(2,338)	1:126:A:LEU:HB3	1:77:A:ILE:HG12	1	0.43
(1,3842)	1:46:A:TYR:HE1	1:45:A:LYS:HB2	4	0.43
(1,3842)	1:46:A:TYR:HE2	1:45:A:LYS:HB2	4	0.43
(1,3840)	1:46:A:TYR:HE1	1:13:A:TYR:HB2	10	0.43
(1,3840)	1:46:A:TYR:HE2	1:13:A:TYR:HB2	10	0.43
(1,3780)	1:63:A:GLN:HB2	1:46:A:TYR:HD1	6	0.43
(1,3780)	1:63:A:GLN:HB2	1:46:A:TYR:HD2	6	0.43
(1,3712)	1:87:A:ASN:HD21	1:84:A:TYR:H	6	0.43
(1,3642)	1:13:A:TYR:H	1:45:A:LYS:HB2	8	0.43
(1,3599)	1:98:A:THR:HG21	1:95:A:ASN:HD22	3	0.43
(1,3599)	1:98:A:THR:HG22	1:95:A:ASN:HD22	3	0.43
(1,3599)	1:98:A:THR:HG23	1:95:A:ASN:HD22	3	0.43
(1,3557)	1:10:A:ARG:HG2	1:81:A:ASN:HD21	5	0.43
(1,3417)	1:7:A:ARG:HD3	1:8:A:THR:H	2	0.43
(1,3322)	1:22:A:LYS:H	1:67:A:GLU:HB2	1	0.43
(1,3278)	1:28:A:LEU:H	1:28:A:LEU:HD11	4	0.43
(1,3278)	1:28:A:LEU:H	1:28:A:LEU:HD12	4	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3278)	1:28:A:LEU:H	1:28:A:LEU:HD13	4	0.43
(1,3278)	1:28:A:LEU:H	1:28:A:LEU:HD11	10	0.43
(1,3278)	1:28:A:LEU:H	1:28:A:LEU:HD12	10	0.43
(1,3278)	1:28:A:LEU:H	1:28:A:LEU:HD13	10	0.43
(1,3209)	1:36:A:LYS:H	1:53:A:ILE:HD11	2	0.43
(1,3209)	1:36:A:LYS:H	1:53:A:ILE:HD12	2	0.43
(1,3209)	1:36:A:LYS:H	1:53:A:ILE:HD13	2	0.43
(1,3208)	1:36:A:LYS:HG2	1:36:A:LYS:H	6	0.43
(1,3113)	1:44:A:ASP:HB2	1:46:A:TYR:H	10	0.43
(1,2906)	1:68:A:THR:H	1:66:A:LEU:HA	4	0.43
(1,2906)	1:68:A:THR:H	1:66:A:LEU:HA	10	0.43
(1,2848)	1:76:A:ARG:H	1:76:A:ARG:HD2	8	0.43
(1,2794)	1:81:A:ASN:H	1:80:A:LEU:HB3	4	0.43
(1,2781)	1:85:A:ARG:HD2	1:82:A:GLY:H	3	0.43
(1,2589)	1:95:A:ASN:HB3	1:100:A:SER:H	3	0.43
(1,2589)	1:95:A:ASN:HB3	1:100:A:SER:H	6	0.43
(1,2454)	1:113:A:ARG:HD2	1:114:A:ARG:H	2	0.43
(1,2441)	1:84:A:TYR:HE1	1:116:A:GLU:H	1	0.43
(1,2441)	1:84:A:TYR:HE2	1:116:A:GLU:H	1	0.43
(1,2346)	1:124:A:SER:H	1:78:A:LEU:HB2	3	0.43
(1,2346)	1:124:A:SER:H	1:78:A:LEU:HB2	9	0.43
(1,2168)	1:61:A:LEU:HG	1:65:A:HIS:HB3	9	0.43
(1,2122)	1:78:A:LEU:HA	1:123:A:ILE:HG21	4	0.43
(1,2122)	1:78:A:LEU:HA	1:123:A:ILE:HG22	4	0.43
(1,2122)	1:78:A:LEU:HA	1:123:A:ILE:HG23	4	0.43
(1,2007)	1:78:A:LEU:H	1:123:A:ILE:HA	2	0.43
(1,1963)	1:118:A:ILE:HG12	1:118:A:ILE:HB	6	0.43
(1,1539)	1:92:A:GLU:HA	1:92:A:GLU:HG3	9	0.43
(1,1062)	1:65:A:HIS:HB3	1:61:A:LEU:HB2	3	0.43
(1,1037)	1:63:A:GLN:HG2	1:64:A:THR:HA	2	0.43
(1,965)	1:22:A:LYS:HE2	1:22:A:LYS:HG2	10	0.43
(1,816)	1:111:A:LYS:HD3	1:106:A:GLU:HA	4	0.43
(1,804)	1:50:A:VAL:HG21	1:59:A:LEU:HD21	8	0.43
(1,804)	1:50:A:VAL:HG21	1:59:A:LEU:HD22	8	0.43
(1,804)	1:50:A:VAL:HG21	1:59:A:LEU:HD23	8	0.43
(1,804)	1:50:A:VAL:HG22	1:59:A:LEU:HD21	8	0.43
(1,804)	1:50:A:VAL:HG22	1:59:A:LEU:HD22	8	0.43
(1,804)	1:50:A:VAL:HG22	1:59:A:LEU:HD23	8	0.43
(1,804)	1:50:A:VAL:HG23	1:59:A:LEU:HD21	8	0.43
(1,804)	1:50:A:VAL:HG23	1:59:A:LEU:HD22	8	0.43
(1,804)	1:50:A:VAL:HG23	1:59:A:LEU:HD23	8	0.43
(1,711)	1:45:A:LYS:H	1:44:A:ASP:HB2	9	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,703)	1:43:A:ILE:H	1:43:A:ILE:HG12	1	0.43
(1,703)	1:43:A:ILE:H	1:43:A:ILE:HG12	10	0.43
(1,578)	1:42:A:VAL:HG11	1:39:A:VAL:HG21	5	0.43
(1,578)	1:42:A:VAL:HG11	1:39:A:VAL:HG22	5	0.43
(1,578)	1:42:A:VAL:HG11	1:39:A:VAL:HG23	5	0.43
(1,578)	1:42:A:VAL:HG12	1:39:A:VAL:HG21	5	0.43
(1,578)	1:42:A:VAL:HG12	1:39:A:VAL:HG22	5	0.43
(1,578)	1:42:A:VAL:HG12	1:39:A:VAL:HG23	5	0.43
(1,578)	1:42:A:VAL:HG13	1:39:A:VAL:HG21	5	0.43
(1,578)	1:42:A:VAL:HG13	1:39:A:VAL:HG22	5	0.43
(1,578)	1:42:A:VAL:HG13	1:39:A:VAL:HG23	5	0.43
(1,565)	1:17:A:PRO:HA	1:39:A:VAL:HG21	4	0.43
(1,565)	1:17:A:PRO:HA	1:39:A:VAL:HG22	4	0.43
(1,565)	1:17:A:PRO:HA	1:39:A:VAL:HG23	4	0.43
(1,563)	1:39:A:VAL:HG21	1:19:A:ILE:H	10	0.43
(1,563)	1:39:A:VAL:HG22	1:19:A:ILE:H	10	0.43
(1,563)	1:39:A:VAL:HG23	1:19:A:ILE:H	10	0.43
(1,531)	1:53:A:ILE:H	1:37:A:ALA:HB1	10	0.43
(1,531)	1:53:A:ILE:H	1:37:A:ALA:HB2	10	0.43
(1,531)	1:53:A:ILE:H	1:37:A:ALA:HB3	10	0.43
(1,456)	1:61:A:LEU:HD21	1:59:A:LEU:HD11	8	0.43
(1,456)	1:61:A:LEU:HD21	1:59:A:LEU:HD12	8	0.43
(1,456)	1:61:A:LEU:HD21	1:59:A:LEU:HD13	8	0.43
(1,456)	1:61:A:LEU:HD22	1:59:A:LEU:HD11	8	0.43
(1,456)	1:61:A:LEU:HD22	1:59:A:LEU:HD12	8	0.43
(1,456)	1:61:A:LEU:HD22	1:59:A:LEU:HD13	8	0.43
(1,456)	1:61:A:LEU:HD23	1:59:A:LEU:HD11	8	0.43
(1,456)	1:61:A:LEU:HD23	1:59:A:LEU:HD12	8	0.43
(1,456)	1:61:A:LEU:HD23	1:59:A:LEU:HD13	8	0.43
(1,390)	1:24:A:ILE:HD11	1:67:A:GLU:HB3	9	0.43
(1,390)	1:24:A:ILE:HD12	1:67:A:GLU:HB3	9	0.43
(1,390)	1:24:A:ILE:HD13	1:67:A:GLU:HB3	9	0.43
(1,384)	1:24:A:ILE:HD11	1:65:A:HIS:H	8	0.43
(1,384)	1:24:A:ILE:HD12	1:65:A:HIS:H	8	0.43
(1,384)	1:24:A:ILE:HD13	1:65:A:HIS:H	8	0.43
(1,367)	1:23:A:ILE:HG21	1:23:A:ILE:HG13	2	0.43
(1,367)	1:23:A:ILE:HG22	1:23:A:ILE:HG13	2	0.43
(1,367)	1:23:A:ILE:HG23	1:23:A:ILE:HG13	2	0.43
(1,367)	1:23:A:ILE:HG21	1:23:A:ILE:HG13	3	0.43
(1,367)	1:23:A:ILE:HG22	1:23:A:ILE:HG13	3	0.43
(1,367)	1:23:A:ILE:HG23	1:23:A:ILE:HG13	3	0.43
(1,367)	1:23:A:ILE:HG21	1:23:A:ILE:HG13	4	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,367)	1:23:A:ILE:HG22	1:23:A:ILE:HG13	4	0.43
(1,367)	1:23:A:ILE:HG23	1:23:A:ILE:HG13	4	0.43
(1,367)	1:23:A:ILE:HG21	1:23:A:ILE:HG13	5	0.43
(1,367)	1:23:A:ILE:HG22	1:23:A:ILE:HG13	5	0.43
(1,367)	1:23:A:ILE:HG23	1:23:A:ILE:HG13	5	0.43
(1,367)	1:23:A:ILE:HG21	1:23:A:ILE:HG13	6	0.43
(1,367)	1:23:A:ILE:HG22	1:23:A:ILE:HG13	6	0.43
(1,367)	1:23:A:ILE:HG23	1:23:A:ILE:HG13	6	0.43
(1,367)	1:23:A:ILE:HG21	1:23:A:ILE:HG13	7	0.43
(1,367)	1:23:A:ILE:HG22	1:23:A:ILE:HG13	7	0.43
(1,367)	1:23:A:ILE:HG23	1:23:A:ILE:HG13	7	0.43
(1,367)	1:23:A:ILE:HG21	1:23:A:ILE:HG13	8	0.43
(1,367)	1:23:A:ILE:HG22	1:23:A:ILE:HG13	8	0.43
(1,367)	1:23:A:ILE:HG23	1:23:A:ILE:HG13	8	0.43
(1,367)	1:23:A:ILE:HG21	1:23:A:ILE:HG13	10	0.43
(1,367)	1:23:A:ILE:HG22	1:23:A:ILE:HG13	10	0.43
(1,367)	1:23:A:ILE:HG23	1:23:A:ILE:HG13	10	0.43
(1,138)	1:15:A:LEU:H	1:15:A:LEU:HD11	4	0.43
(1,138)	1:15:A:LEU:H	1:15:A:LEU:HD12	4	0.43
(1,138)	1:15:A:LEU:H	1:15:A:LEU:HD13	4	0.43
(1,138)	1:15:A:LEU:H	1:15:A:LEU:HD11	5	0.43
(1,138)	1:15:A:LEU:H	1:15:A:LEU:HD12	5	0.43
(1,138)	1:15:A:LEU:H	1:15:A:LEU:HD13	5	0.43
(3,1221)	1:61:A:LEU:HD13	1:59:A:LEU:HD11	3	0.42
(3,1189)	1:78:A:LEU:HA	1:79:A:VAL:HB	8	0.42
(3,1172)	1:118:A:ILE:HG12	1:103:A:ILE:HG13	3	0.42
(3,1108)	1:53:A:ILE:HB	1:56:A:GLY:H	10	0.42
(3,1093)	1:70:A:ILE:HD13	1:123:A:ILE:H	1	0.42
(3,1025)	1:102:A:THR:H	1:103:A:ILE:H	4	0.42
(3,981)	1:38:A:ILE:HG13	1:38:A:ILE:HD13	2	0.42
(3,981)	1:38:A:ILE:HG13	1:38:A:ILE:HD13	5	0.42
(3,981)	1:38:A:ILE:HG13	1:38:A:ILE:HD13	7	0.42
(3,981)	1:38:A:ILE:HG13	1:38:A:ILE:HD12	8	0.42
(3,981)	1:38:A:ILE:HG13	1:38:A:ILE:HD12	10	0.42
(3,936)	1:77:A:ILE:HG13	1:103:A:ILE:HB	2	0.42
(3,751)	1:43:A:ILE:HG22	1:43:A:ILE:H	1	0.42
(3,751)	1:43:A:ILE:HG21	1:43:A:ILE:H	10	0.42
(3,671)	1:40:A:LYS:HB3	1:41:A:GLU:H	5	0.42
(3,671)	1:40:A:LYS:HB3	1:41:A:GLU:H	8	0.42
(3,471)	1:24:A:ILE:H	1:24:A:ILE:HG13	2	0.42
(3,401)	1:15:A:LEU:HD22	1:80:A:LEU:HD13	2	0.42
(3,371)	1:54:A:ASP:H	1:53:A:ILE:HG13	2	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,291)	1:114:A:ARG:H	1:114:A:ARG:HG2	5	0.42
(3,291)	1:114:A:ARG:H	1:114:A:ARG:HG2	8	0.42
(3,30)	1:103:A:ILE:H	1:103:A:ILE:HD13	8	0.42
(1,3778)	1:45:A:LYS:HB3	1:46:A:TYR:HD1	2	0.42
(1,3778)	1:45:A:LYS:HB3	1:46:A:TYR:HD2	2	0.42
(1,3522)	1:40:A:LYS:HE3	1:51:A:LYS:H	4	0.42
(1,3322)	1:22:A:LYS:H	1:67:A:GLU:HB2	4	0.42
(1,3322)	1:22:A:LYS:H	1:67:A:GLU:HB2	10	0.42
(1,2985)	1:61:A:LEU:HB2	1:62:A:ASP:H	7	0.42
(1,2985)	1:61:A:LEU:HB2	1:62:A:ASP:H	8	0.42
(1,2976)	1:63:A:GLN:H	1:14:A:TRP:HE1	7	0.42
(1,2848)	1:76:A:ARG:H	1:76:A:ARG:HD2	4	0.42
(1,2786)	1:81:A:ASN:H	1:86:A:GLY:H	1	0.42
(1,2592)	1:97:A:LYS:HB3	1:100:A:SER:H	2	0.42
(1,2589)	1:95:A:ASN:HB3	1:100:A:SER:H	5	0.42
(1,2358)	1:122:A:ASP:H	1:121:A:GLU:HB2	4	0.42
(1,2346)	1:124:A:SER:H	1:78:A:LEU:HB2	1	0.42
(1,2323)	1:126:A:LEU:H	1:71:A:PRO:HD2	1	0.42
(1,2251)	1:60:A:LYS:HE2	1:49:A:VAL:HA	9	0.42
(1,2238)	1:76:A:ARG:HD2	1:90:A:THR:HA	3	0.42
(1,2232)	1:78:A:LEU:HD11	1:78:A:LEU:HB3	6	0.42
(1,2232)	1:78:A:LEU:HD12	1:78:A:LEU:HB3	6	0.42
(1,2232)	1:78:A:LEU:HD13	1:78:A:LEU:HB3	6	0.42
(1,1953)	1:118:A:ILE:HG13	1:118:A:ILE:HA	1	0.42
(1,1584)	1:120:A:TYR:HD1	1:94:A:ILE:HG21	5	0.42
(1,1584)	1:120:A:TYR:HD1	1:94:A:ILE:HG22	5	0.42
(1,1584)	1:120:A:TYR:HD1	1:94:A:ILE:HG23	5	0.42
(1,1584)	1:120:A:TYR:HD2	1:94:A:ILE:HG21	5	0.42
(1,1584)	1:120:A:TYR:HD2	1:94:A:ILE:HG22	5	0.42
(1,1584)	1:120:A:TYR:HD2	1:94:A:ILE:HG23	5	0.42
(1,1584)	1:120:A:TYR:HD1	1:94:A:ILE:HG21	8	0.42
(1,1584)	1:120:A:TYR:HD1	1:94:A:ILE:HG22	8	0.42
(1,1584)	1:120:A:TYR:HD1	1:94:A:ILE:HG23	8	0.42
(1,1584)	1:120:A:TYR:HD2	1:94:A:ILE:HG21	8	0.42
(1,1584)	1:120:A:TYR:HD2	1:94:A:ILE:HG22	8	0.42
(1,1584)	1:120:A:TYR:HD2	1:94:A:ILE:HG23	8	0.42
(1,1539)	1:92:A:GLU:HA	1:92:A:GLU:HG3	2	0.42
(1,1539)	1:92:A:GLU:HA	1:92:A:GLU:HG3	8	0.42
(1,1527)	1:93:A:SER:H	1:91:A:LEU:HG	1	0.42
(1,1484)	1:96:A:GLU:HG2	1:96:A:GLU:HA	10	0.42
(1,1263)	1:76:A:ARG:HG3	1:76:A:ARG:HA	7	0.42
(1,1037)	1:63:A:GLN:HG2	1:64:A:THR:HA	5	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,965)	1:22:A:LYS:HE2	1:22:A:LYS:HG2	9	0.42
(1,859)	1:37:A:ALA:HA	1:53:A:ILE:HD11	8	0.42
(1,859)	1:37:A:ALA:HA	1:53:A:ILE:HD12	8	0.42
(1,859)	1:37:A:ALA:HA	1:53:A:ILE:HD13	8	0.42
(1,804)	1:50:A:VAL:HG21	1:59:A:LEU:HD21	3	0.42
(1,804)	1:50:A:VAL:HG21	1:59:A:LEU:HD22	3	0.42
(1,804)	1:50:A:VAL:HG21	1:59:A:LEU:HD23	3	0.42
(1,804)	1:50:A:VAL:HG22	1:59:A:LEU:HD21	3	0.42
(1,804)	1:50:A:VAL:HG22	1:59:A:LEU:HD22	3	0.42
(1,804)	1:50:A:VAL:HG22	1:59:A:LEU:HD23	3	0.42
(1,804)	1:50:A:VAL:HG23	1:59:A:LEU:HD21	3	0.42
(1,804)	1:50:A:VAL:HG23	1:59:A:LEU:HD22	3	0.42
(1,804)	1:50:A:VAL:HG23	1:59:A:LEU:HD23	3	0.42
(1,781)	1:48:A:ALA:HB1	1:39:A:VAL:HB	5	0.42
(1,781)	1:48:A:ALA:HB2	1:39:A:VAL:HB	5	0.42
(1,781)	1:48:A:ALA:HB3	1:39:A:VAL:HB	5	0.42
(1,777)	1:48:A:ALA:HB1	1:41:A:GLU:H	5	0.42
(1,777)	1:48:A:ALA:HB2	1:41:A:GLU:H	5	0.42
(1,777)	1:48:A:ALA:HB3	1:41:A:GLU:H	5	0.42
(1,739)	1:45:A:LYS:HG2	1:45:A:LYS:HE2	3	0.42
(1,704)	1:44:A:ASP:H	1:43:A:ILE:HG21	7	0.42
(1,704)	1:44:A:ASP:H	1:43:A:ILE:HG22	7	0.42
(1,704)	1:44:A:ASP:H	1:43:A:ILE:HG23	7	0.42
(1,703)	1:43:A:ILE:H	1:43:A:ILE:HG12	7	0.42
(1,695)	1:14:A:TRP:HB3	1:80:A:LEU:HD11	10	0.42
(1,695)	1:14:A:TRP:HB3	1:80:A:LEU:HD12	10	0.42
(1,695)	1:14:A:TRP:HB3	1:80:A:LEU:HD13	10	0.42
(1,693)	1:80:A:LEU:HD11	1:124:A:SER:HB2	9	0.42
(1,693)	1:80:A:LEU:HD12	1:124:A:SER:HB2	9	0.42
(1,693)	1:80:A:LEU:HD13	1:124:A:SER:HB2	9	0.42
(1,659)	1:45:A:LYS:H	1:42:A:VAL:HG21	3	0.42
(1,659)	1:45:A:LYS:H	1:42:A:VAL:HG22	3	0.42
(1,659)	1:45:A:LYS:H	1:42:A:VAL:HG23	3	0.42
(1,578)	1:42:A:VAL:HG11	1:39:A:VAL:HG21	10	0.42
(1,578)	1:42:A:VAL:HG11	1:39:A:VAL:HG22	10	0.42
(1,578)	1:42:A:VAL:HG11	1:39:A:VAL:HG23	10	0.42
(1,578)	1:42:A:VAL:HG12	1:39:A:VAL:HG21	10	0.42
(1,578)	1:42:A:VAL:HG12	1:39:A:VAL:HG22	10	0.42
(1,578)	1:42:A:VAL:HG12	1:39:A:VAL:HG23	10	0.42
(1,578)	1:42:A:VAL:HG13	1:39:A:VAL:HG21	10	0.42
(1,578)	1:42:A:VAL:HG13	1:39:A:VAL:HG22	10	0.42
(1,578)	1:42:A:VAL:HG13	1:39:A:VAL:HG23	10	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,577)	1:15:A:LEU:HD21	1:39:A:VAL:HG11	1	0.42
(1,577)	1:15:A:LEU:HD21	1:39:A:VAL:HG12	1	0.42
(1,577)	1:15:A:LEU:HD21	1:39:A:VAL:HG13	1	0.42
(1,577)	1:15:A:LEU:HD22	1:39:A:VAL:HG11	1	0.42
(1,577)	1:15:A:LEU:HD22	1:39:A:VAL:HG12	1	0.42
(1,577)	1:15:A:LEU:HD22	1:39:A:VAL:HG13	1	0.42
(1,577)	1:15:A:LEU:HD23	1:39:A:VAL:HG11	1	0.42
(1,577)	1:15:A:LEU:HD23	1:39:A:VAL:HG12	1	0.42
(1,577)	1:15:A:LEU:HD23	1:39:A:VAL:HG13	1	0.42
(1,565)	1:17:A:PRO:HA	1:39:A:VAL:HG21	9	0.42
(1,565)	1:17:A:PRO:HA	1:39:A:VAL:HG22	9	0.42
(1,565)	1:17:A:PRO:HA	1:39:A:VAL:HG23	9	0.42
(1,548)	1:39:A:VAL:HA	1:50:A:VAL:HB	9	0.42
(1,451)	1:28:A:LEU:H	1:28:A:LEU:HD11	5	0.42
(1,451)	1:28:A:LEU:H	1:28:A:LEU:HD12	5	0.42
(1,451)	1:28:A:LEU:H	1:28:A:LEU:HD13	5	0.42
(1,451)	1:28:A:LEU:H	1:28:A:LEU:HD11	8	0.42
(1,451)	1:28:A:LEU:H	1:28:A:LEU:HD12	8	0.42
(1,451)	1:28:A:LEU:H	1:28:A:LEU:HD13	8	0.42
(1,387)	1:65:A:HIS:HA	1:24:A:ILE:HD11	7	0.42
(1,387)	1:65:A:HIS:HA	1:24:A:ILE:HD12	7	0.42
(1,387)	1:65:A:HIS:HA	1:24:A:ILE:HD13	7	0.42
(1,384)	1:24:A:ILE:HD11	1:65:A:HIS:H	1	0.42
(1,384)	1:24:A:ILE:HD12	1:65:A:HIS:H	1	0.42
(1,384)	1:24:A:ILE:HD13	1:65:A:HIS:H	1	0.42
(1,314)	1:37:A:ALA:HB1	1:50:A:VAL:HG11	3	0.42
(1,314)	1:37:A:ALA:HB1	1:50:A:VAL:HG12	3	0.42
(1,314)	1:37:A:ALA:HB1	1:50:A:VAL:HG13	3	0.42
(1,314)	1:37:A:ALA:HB2	1:50:A:VAL:HG11	3	0.42
(1,314)	1:37:A:ALA:HB2	1:50:A:VAL:HG12	3	0.42
(1,314)	1:37:A:ALA:HB2	1:50:A:VAL:HG13	3	0.42
(1,314)	1:37:A:ALA:HB3	1:50:A:VAL:HG11	3	0.42
(1,314)	1:37:A:ALA:HB3	1:50:A:VAL:HG12	3	0.42
(1,314)	1:37:A:ALA:HB3	1:50:A:VAL:HG13	3	0.42
(1,290)	1:20:A:ILE:HG13	1:127:A:ALA:HA	6	0.42
(1,201)	1:73:A:PRO:HG2	1:91:A:LEU:HD11	5	0.42
(1,201)	1:73:A:PRO:HG2	1:91:A:LEU:HD12	5	0.42
(1,201)	1:73:A:PRO:HG2	1:91:A:LEU:HD13	5	0.42
(1,138)	1:15:A:LEU:H	1:15:A:LEU:HD11	3	0.42
(1,138)	1:15:A:LEU:H	1:15:A:LEU:HD12	3	0.42
(1,138)	1:15:A:LEU:H	1:15:A:LEU:HD13	3	0.42
(1,52)	1:61:A:LEU:HD11	1:25:A:THR:HB	1	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,52)	1:61:A:LEU:HD12	1:25:A:THR:HB	1	0.42
(1,52)	1:61:A:LEU:HD13	1:25:A:THR:HB	1	0.42
(1,52)	1:61:A:LEU:HD11	1:25:A:THR:HB	4	0.42
(1,52)	1:61:A:LEU:HD12	1:25:A:THR:HB	4	0.42
(1,52)	1:61:A:LEU:HD13	1:25:A:THR:HB	4	0.42
(3,1189)	1:78:A:LEU:HA	1:79:A:VAL:HB	4	0.41
(3,1189)	1:78:A:LEU:HA	1:79:A:VAL:HB	9	0.41
(3,1166)	1:118:A:ILE:HG13	1:103:A:ILE:H	9	0.41
(3,1093)	1:70:A:ILE:HD12	1:123:A:ILE:H	3	0.41
(3,1093)	1:70:A:ILE:HD13	1:123:A:ILE:H	8	0.41
(3,1042)	1:19:A:ILE:HA	1:127:A:ALA:HA	10	0.41
(3,981)	1:38:A:ILE:HG13	1:38:A:ILE:HD12	1	0.41
(3,961)	1:30:A:GLU:HG2	1:29:A:GLY:H	9	0.41
(3,951)	1:124:A:SER:H	1:123:A:ILE:HG21	6	0.41
(3,936)	1:77:A:ILE:HG13	1:103:A:ILE:HB	8	0.41
(3,841)	1:80:A:LEU:H	1:123:A:ILE:HG22	1	0.41
(3,600)	1:20:A:ILE:HB	1:21:A:VAL:H	1	0.41
(3,371)	1:20:A:ILE:HB	1:21:A:VAL:H	9	0.41
(3,371)	1:54:A:ASP:H	1:53:A:ILE:HG13	10	0.41
(3,291)	1:114:A:ARG:H	1:114:A:ARG:HG2	9	0.41
(3,264)	1:77:A:ILE:H	1:91:A:LEU:H	1	0.41
(3,162)	1:15:A:LEU:H	1:19:A:ILE:HD13	8	0.41
(3,148)	1:73:A:PRO:HG2	1:93:A:SER:HB3	5	0.41
(2,590)	1:7:A:ARG:HB2	1:9:A:ALA:H	4	0.41
(2,566)	1:63:A:GLN:HB2	1:46:A:TYR:H	8	0.41
(2,338)	1:126:A:LEU:HB3	1:77:A:ILE:HG12	10	0.41
(2,304)	1:105:A:ILE:HB	1:115:A:VAL:HG11	9	0.41
(2,304)	1:105:A:ILE:HB	1:115:A:VAL:HG12	9	0.41
(2,304)	1:105:A:ILE:HB	1:115:A:VAL:HG13	9	0.41
(1,3782)	1:11:A:THR:HB	1:13:A:TYR:HD1	4	0.41
(1,3782)	1:11:A:THR:HB	1:13:A:TYR:HD2	4	0.41
(1,3725)	1:95:A:ASN:HD22	1:95:A:ASN:H	4	0.41
(1,3697)	1:68:A:THR:H	1:14:A:TRP:HE1	7	0.41
(1,3695)	1:68:A:THR:H	1:121:A:GLU:HB3	1	0.41
(1,3475)	1:19:A:ILE:HD11	1:18:A:GLU:H	4	0.41
(1,3475)	1:19:A:ILE:HD12	1:18:A:GLU:H	4	0.41
(1,3475)	1:19:A:ILE:HD13	1:18:A:GLU:H	4	0.41
(1,3475)	1:19:A:ILE:HD11	1:18:A:GLU:H	7	0.41
(1,3475)	1:19:A:ILE:HD12	1:18:A:GLU:H	7	0.41
(1,3475)	1:19:A:ILE:HD13	1:18:A:GLU:H	7	0.41
(1,3434)	1:63:A:GLN:HE22	1:14:A:TRP:HE1	8	0.41
(1,3368)	1:15:A:LEU:H	1:13:A:TYR:HB3	9	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3322)	1:22:A:LYS:H	1:67:A:GLU:HB2	3	0.41
(1,2985)	1:61:A:LEU:HB2	1:62:A:ASP:H	2	0.41
(1,2906)	1:68:A:THR:H	1:66:A:LEU:HA	7	0.41
(1,2794)	1:81:A:ASN:H	1:80:A:LEU:HB3	3	0.41
(1,2709)	1:103:A:ILE:HB	1:89:A:GLY:H	5	0.41
(1,2709)	1:103:A:ILE:HB	1:89:A:GLY:H	6	0.41
(1,2467)	1:113:A:ARG:H	1:105:A:ILE:HG13	8	0.41
(1,2456)	1:115:A:VAL:HG11	1:114:A:ARG:H	6	0.41
(1,2456)	1:115:A:VAL:HG12	1:114:A:ARG:H	6	0.41
(1,2456)	1:115:A:VAL:HG13	1:114:A:ARG:H	6	0.41
(1,2382)	1:120:A:TYR:H	1:119:A:GLN:HB2	6	0.41
(1,2346)	1:124:A:SER:H	1:78:A:LEU:HB2	5	0.41
(1,2292)	1:19:A:ILE:HD11	1:16:A:GLN:HB3	2	0.41
(1,2292)	1:19:A:ILE:HD12	1:16:A:GLN:HB3	2	0.41
(1,2292)	1:19:A:ILE:HD13	1:16:A:GLN:HB3	2	0.41
(1,2168)	1:61:A:LEU:HG	1:65:A:HIS:HB3	4	0.41
(1,2168)	1:61:A:LEU:HG	1:65:A:HIS:HB3	7	0.41
(1,2162)	1:115:A:VAL:HG21	1:113:A:ARG:HD3	2	0.41
(1,2162)	1:115:A:VAL:HG22	1:113:A:ARG:HD3	2	0.41
(1,2162)	1:115:A:VAL:HG23	1:113:A:ARG:HD3	2	0.41
(1,2007)	1:78:A:LEU:H	1:123:A:ILE:HA	4	0.41
(1,1953)	1:118:A:ILE:HG13	1:118:A:ILE:HA	7	0.41
(1,1888)	1:76:A:ARG:HD2	1:90:A:THR:HG21	8	0.41
(1,1888)	1:76:A:ARG:HD2	1:90:A:THR:HG22	8	0.41
(1,1888)	1:76:A:ARG:HD2	1:90:A:THR:HG23	8	0.41
(1,1765)	1:105:A:ILE:HG21	1:87:A:ASN:HB2	9	0.41
(1,1765)	1:105:A:ILE:HG22	1:87:A:ASN:HB2	9	0.41
(1,1765)	1:105:A:ILE:HG23	1:87:A:ASN:HB2	9	0.41
(1,1762)	1:105:A:ILE:HG21	1:106:A:GLU:HA	4	0.41
(1,1762)	1:105:A:ILE:HG22	1:106:A:GLU:HA	4	0.41
(1,1762)	1:105:A:ILE:HG23	1:106:A:GLU:HA	4	0.41
(1,1762)	1:105:A:ILE:HG21	1:106:A:GLU:HA	9	0.41
(1,1762)	1:105:A:ILE:HG22	1:106:A:GLU:HA	9	0.41
(1,1762)	1:105:A:ILE:HG23	1:106:A:GLU:HA	9	0.41
(1,1539)	1:92:A:GLU:HA	1:92:A:GLU:HG3	5	0.41
(1,1484)	1:96:A:GLU:HG3	1:96:A:GLU:HA	4	0.41
(1,1484)	1:96:A:GLU:HG3	1:96:A:GLU:HA	5	0.41
(1,1484)	1:96:A:GLU:HG2	1:96:A:GLU:HA	8	0.41
(1,1484)	1:96:A:GLU:HG3	1:96:A:GLU:HA	9	0.41
(1,1263)	1:76:A:ARG:HG3	1:76:A:ARG:HA	9	0.41
(1,1062)	1:65:A:HIS:HB3	1:61:A:LEU:HB2	4	0.41
(1,1019)	1:63:A:GLN:H	1:63:A:GLN:HB2	1	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1019)	1:63:A:GLN:H	1:63:A:GLN:HB2	7	0.41
(1,1019)	1:63:A:GLN:H	1:63:A:GLN:HB2	10	0.41
(1,924)	1:40:A:LYS:HE2	1:38:A:ILE:H	6	0.41
(1,708)	1:44:A:ASP:HB3	1:44:A:ASP:HA	1	0.41
(1,708)	1:44:A:ASP:HB3	1:44:A:ASP:HA	2	0.41
(1,708)	1:44:A:ASP:HB3	1:44:A:ASP:HA	5	0.41
(1,708)	1:44:A:ASP:HB3	1:44:A:ASP:HA	6	0.41
(1,708)	1:44:A:ASP:HB3	1:44:A:ASP:HA	8	0.41
(1,708)	1:44:A:ASP:HB3	1:44:A:ASP:HA	9	0.41
(1,708)	1:44:A:ASP:HB3	1:44:A:ASP:HA	10	0.41
(1,434)	1:61:A:LEU:HD21	1:59:A:LEU:HD11	1	0.41
(1,434)	1:61:A:LEU:HD21	1:59:A:LEU:HD12	1	0.41
(1,434)	1:61:A:LEU:HD21	1:59:A:LEU:HD13	1	0.41
(1,434)	1:61:A:LEU:HD22	1:59:A:LEU:HD11	1	0.41
(1,434)	1:61:A:LEU:HD22	1:59:A:LEU:HD12	1	0.41
(1,434)	1:61:A:LEU:HD22	1:59:A:LEU:HD13	1	0.41
(1,434)	1:61:A:LEU:HD23	1:59:A:LEU:HD11	1	0.41
(1,434)	1:61:A:LEU:HD23	1:59:A:LEU:HD12	1	0.41
(1,434)	1:61:A:LEU:HD23	1:59:A:LEU:HD13	1	0.41
(1,314)	1:37:A:ALA:HB1	1:50:A:VAL:HG11	1	0.41
(1,314)	1:37:A:ALA:HB1	1:50:A:VAL:HG12	1	0.41
(1,314)	1:37:A:ALA:HB1	1:50:A:VAL:HG13	1	0.41
(1,314)	1:37:A:ALA:HB2	1:50:A:VAL:HG11	1	0.41
(1,314)	1:37:A:ALA:HB2	1:50:A:VAL:HG12	1	0.41
(1,314)	1:37:A:ALA:HB2	1:50:A:VAL:HG13	1	0.41
(1,314)	1:37:A:ALA:HB3	1:50:A:VAL:HG11	1	0.41
(1,314)	1:37:A:ALA:HB3	1:50:A:VAL:HG12	1	0.41
(1,314)	1:37:A:ALA:HB3	1:50:A:VAL:HG13	1	0.41
(1,314)	1:37:A:ALA:HB1	1:50:A:VAL:HG11	5	0.41
(1,314)	1:37:A:ALA:HB1	1:50:A:VAL:HG12	5	0.41
(1,314)	1:37:A:ALA:HB1	1:50:A:VAL:HG13	5	0.41
(1,314)	1:37:A:ALA:HB2	1:50:A:VAL:HG11	5	0.41
(1,314)	1:37:A:ALA:HB2	1:50:A:VAL:HG12	5	0.41
(1,314)	1:37:A:ALA:HB2	1:50:A:VAL:HG13	5	0.41
(1,314)	1:37:A:ALA:HB3	1:50:A:VAL:HG11	5	0.41
(1,314)	1:37:A:ALA:HB3	1:50:A:VAL:HG12	5	0.41
(1,314)	1:37:A:ALA:HB3	1:50:A:VAL:HG13	5	0.41
(1,314)	1:37:A:ALA:HB1	1:50:A:VAL:HG11	7	0.41
(1,314)	1:37:A:ALA:HB1	1:50:A:VAL:HG12	7	0.41
(1,314)	1:37:A:ALA:HB1	1:50:A:VAL:HG13	7	0.41
(1,314)	1:37:A:ALA:HB2	1:50:A:VAL:HG11	7	0.41
(1,314)	1:37:A:ALA:HB2	1:50:A:VAL:HG12	7	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,314)	1:37:A:ALA:HB2	1:50:A:VAL:HG13	7	0.41
(1,314)	1:37:A:ALA:HB3	1:50:A:VAL:HG11	7	0.41
(1,314)	1:37:A:ALA:HB3	1:50:A:VAL:HG12	7	0.41
(1,314)	1:37:A:ALA:HB3	1:50:A:VAL:HG13	7	0.41
(1,290)	1:20:A:ILE:HG13	1:127:A:ALA:HA	10	0.41
(1,287)	1:20:A:ILE:HD11	1:20:A:ILE:H	2	0.41
(1,287)	1:20:A:ILE:HD12	1:20:A:ILE:H	2	0.41
(1,287)	1:20:A:ILE:HD13	1:20:A:ILE:H	2	0.41
(1,201)	1:73:A:PRO:HG2	1:91:A:LEU:HD11	4	0.41
(1,201)	1:73:A:PRO:HG2	1:91:A:LEU:HD12	4	0.41
(1,201)	1:73:A:PRO:HG2	1:91:A:LEU:HD13	4	0.41
(1,143)	1:15:A:LEU:HD11	1:63:A:GLN:HB2	10	0.41
(1,143)	1:15:A:LEU:HD12	1:63:A:GLN:HB2	10	0.41
(1,143)	1:15:A:LEU:HD13	1:63:A:GLN:HB2	10	0.41
(1,18)	1:97:A:LYS:HG3	1:97:A:LYS:HA	5	0.41
(1,18)	1:97:A:LYS:HG3	1:97:A:LYS:HA	8	0.41
(3,1189)	1:78:A:LEU:HA	1:79:A:VAL:HB	2	0.4
(3,1189)	1:78:A:LEU:HA	1:79:A:VAL:HB	5	0.4
(3,1189)	1:78:A:LEU:HA	1:79:A:VAL:HB	10	0.4
(3,1178)	1:109:A:PRO:HB2	1:109:A:PRO:HD3	6	0.4
(3,1164)	1:26:A:LYS:HG3	1:29:A:GLY:H	4	0.4
(3,1155)	1:118:A:ILE:HG22	1:119:A:GLN:H	8	0.4
(3,1108)	1:53:A:ILE:HB	1:56:A:GLY:H	7	0.4
(3,1093)	1:70:A:ILE:HD11	1:123:A:ILE:H	4	0.4
(3,1060)	1:9:A:ALA:HB3	1:9:A:ALA:H	4	0.4
(3,1042)	1:19:A:ILE:HA	1:127:A:ALA:HA	1	0.4
(3,936)	1:77:A:ILE:HG13	1:103:A:ILE:HB	7	0.4
(3,855)	1:17:A:PRO:HD3	1:16:A:GLN:HB2	4	0.4
(3,849)	1:35:A:LYS:HD2	1:33:A:HIS:H	3	0.4
(3,676)	1:108:A:GLY:H	1:107:A:THR:HG23	3	0.4
(3,676)	1:108:A:GLY:H	1:107:A:THR:HG23	6	0.4
(3,671)	1:40:A:LYS:HB3	1:41:A:GLU:H	6	0.4
(3,378)	1:89:A:GLY:H	1:103:A:ILE:HD12	8	0.4
(3,345)	1:35:A:LYS:H	1:22:A:LYS:HG3	6	0.4
(3,293)	1:27:A:LYS:HG3	1:27:A:LYS:HA	8	0.4
(3,280)	1:112:A:GLY:H	1:111:A:LYS:HG3	4	0.4
(3,174)	1:96:A:GLU:HB2	1:97:A:LYS:H	9	0.4
(2,362)	1:84:A:TYR:HB3	1:103:A:ILE:HG13	3	0.4
(1,3725)	1:95:A:ASN:HD22	1:95:A:ASN:H	1	0.4
(1,3710)	1:82:A:GLY:H	1:85:A:ARG:HA	2	0.4
(1,3545)	1:66:A:LEU:H	1:63:A:GLN:HG2	5	0.4
(1,3475)	1:19:A:ILE:HD11	1:18:A:GLU:H	2	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3475)	1:19:A:ILE:HD12	1:18:A:GLU:H	2	0.4
(1,3475)	1:19:A:ILE:HD13	1:18:A:GLU:H	2	0.4
(1,3475)	1:19:A:ILE:HD11	1:18:A:GLU:H	9	0.4
(1,3475)	1:19:A:ILE:HD12	1:18:A:GLU:H	9	0.4
(1,3475)	1:19:A:ILE:HD13	1:18:A:GLU:H	9	0.4
(1,3446)	1:68:A:THR:HG21	1:14:A:TRP:HE1	4	0.4
(1,3446)	1:68:A:THR:HG22	1:14:A:TRP:HE1	4	0.4
(1,3446)	1:68:A:THR:HG23	1:14:A:TRP:HE1	4	0.4
(1,3434)	1:63:A:GLN:HE22	1:14:A:TRP:HE1	5	0.4
(1,3403)	1:10:A:ARG:HD2	1:10:A:ARG:H	6	0.4
(1,3278)	1:28:A:LEU:H	1:28:A:LEU:HD11	1	0.4
(1,3278)	1:28:A:LEU:H	1:28:A:LEU:HD12	1	0.4
(1,3278)	1:28:A:LEU:H	1:28:A:LEU:HD13	1	0.4
(1,3210)	1:36:A:LYS:H	1:36:A:LYS:HE2	1	0.4
(1,3210)	1:36:A:LYS:H	1:36:A:LYS:HE2	10	0.4
(1,3098)	1:44:A:ASP:HB2	1:47:A:THR:H	2	0.4
(1,3089)	1:48:A:ALA:H	1:63:A:GLN:HA	2	0.4
(1,3077)	1:49:A:VAL:H	1:43:A:ILE:H	7	0.4
(1,2985)	1:61:A:LEU:HB2	1:62:A:ASP:H	9	0.4
(1,2781)	1:85:A:ARG:HD2	1:82:A:GLY:H	4	0.4
(1,2735)	1:85:A:ARG:HB3	1:87:A:ASN:H	5	0.4
(1,2646)	1:95:A:ASN:HB3	1:95:A:ASN:H	10	0.4
(1,2636)	1:96:A:GLU:H	1:97:A:LYS:HD2	7	0.4
(1,2456)	1:115:A:VAL:HG11	1:114:A:ARG:H	9	0.4
(1,2456)	1:115:A:VAL:HG12	1:114:A:ARG:H	9	0.4
(1,2456)	1:115:A:VAL:HG13	1:114:A:ARG:H	9	0.4
(1,2442)	1:103:A:ILE:H	1:116:A:GLU:H	5	0.4
(1,2397)	1:122:A:ASP:HA	1:119:A:GLN:H	10	0.4
(1,2246)	1:13:A:TYR:HB3	1:45:A:LYS:HD2	10	0.4
(1,2162)	1:115:A:VAL:HG21	1:113:A:ARG:HD3	3	0.4
(1,2162)	1:115:A:VAL:HG22	1:113:A:ARG:HD3	3	0.4
(1,2162)	1:115:A:VAL:HG23	1:113:A:ARG:HD3	3	0.4
(1,2110)	1:126:A:LEU:HB3	1:77:A:ILE:HG21	10	0.4
(1,2110)	1:126:A:LEU:HB3	1:77:A:ILE:HG22	10	0.4
(1,2110)	1:126:A:LEU:HB3	1:77:A:ILE:HG23	10	0.4
(1,2032)	1:78:A:LEU:H	1:123:A:ILE:HG21	1	0.4
(1,2032)	1:78:A:LEU:H	1:123:A:ILE:HG22	1	0.4
(1,2032)	1:78:A:LEU:H	1:123:A:ILE:HG23	1	0.4
(1,2007)	1:78:A:LEU:H	1:123:A:ILE:HA	10	0.4
(1,1953)	1:118:A:ILE:HG13	1:118:A:ILE:HA	3	0.4
(1,1896)	1:114:A:ARG:HA	1:114:A:ARG:HG2	7	0.4
(1,1762)	1:105:A:ILE:HG21	1:106:A:GLU:HA	10	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1762)	1:105:A:ILE:HG22	1:106:A:GLU:HA	10	0.4
(1,1762)	1:105:A:ILE:HG23	1:106:A:GLU:HA	10	0.4
(1,1663)	1:91:A:LEU:HD21	1:101:A:ALA:HB1	1	0.4
(1,1663)	1:91:A:LEU:HD21	1:101:A:ALA:HB2	1	0.4
(1,1663)	1:91:A:LEU:HD21	1:101:A:ALA:HB3	1	0.4
(1,1663)	1:91:A:LEU:HD22	1:101:A:ALA:HB1	1	0.4
(1,1663)	1:91:A:LEU:HD22	1:101:A:ALA:HB2	1	0.4
(1,1663)	1:91:A:LEU:HD22	1:101:A:ALA:HB3	1	0.4
(1,1663)	1:91:A:LEU:HD23	1:101:A:ALA:HB1	1	0.4
(1,1663)	1:91:A:LEU:HD23	1:101:A:ALA:HB2	1	0.4
(1,1663)	1:91:A:LEU:HD23	1:101:A:ALA:HB3	1	0.4
(1,1484)	1:96:A:GLU:HG2	1:96:A:GLU:HA	3	0.4
(1,1484)	1:96:A:GLU:HG2	1:96:A:GLU:HA	7	0.4
(1,1263)	1:76:A:ARG:HG3	1:76:A:ARG:HA	1	0.4
(1,1258)	1:75:A:LYS:HD2	1:75:A:LYS:HA	3	0.4
(1,1220)	1:73:A:PRO:HA	1:91:A:LEU:HB2	2	0.4
(1,1019)	1:63:A:GLN:H	1:63:A:GLN:HB2	2	0.4
(1,1019)	1:63:A:GLN:H	1:63:A:GLN:HB2	3	0.4
(1,1019)	1:63:A:GLN:H	1:63:A:GLN:HB2	4	0.4
(1,1019)	1:63:A:GLN:H	1:63:A:GLN:HB2	5	0.4
(1,1019)	1:63:A:GLN:H	1:63:A:GLN:HB2	6	0.4
(1,1019)	1:63:A:GLN:H	1:63:A:GLN:HB2	8	0.4
(1,888)	1:54:A:ASP:HB2	1:53:A:ILE:HB	7	0.4
(1,869)	1:94:A:ILE:HD11	1:120:A:TYR:HE1	4	0.4
(1,869)	1:94:A:ILE:HD11	1:120:A:TYR:HE2	4	0.4
(1,869)	1:94:A:ILE:HD12	1:120:A:TYR:HE1	4	0.4
(1,869)	1:94:A:ILE:HD12	1:120:A:TYR:HE2	4	0.4
(1,869)	1:94:A:ILE:HD13	1:120:A:TYR:HE1	4	0.4
(1,869)	1:94:A:ILE:HD13	1:120:A:TYR:HE2	4	0.4
(1,856)	1:38:A:ILE:H	1:53:A:ILE:HD11	6	0.4
(1,856)	1:38:A:ILE:H	1:53:A:ILE:HD12	6	0.4
(1,856)	1:38:A:ILE:H	1:53:A:ILE:HD13	6	0.4
(1,816)	1:111:A:LYS:HD3	1:106:A:GLU:HA	10	0.4
(1,314)	1:37:A:ALA:HB1	1:50:A:VAL:HG11	10	0.4
(1,314)	1:37:A:ALA:HB1	1:50:A:VAL:HG12	10	0.4
(1,314)	1:37:A:ALA:HB1	1:50:A:VAL:HG13	10	0.4
(1,314)	1:37:A:ALA:HB2	1:50:A:VAL:HG11	10	0.4
(1,314)	1:37:A:ALA:HB2	1:50:A:VAL:HG12	10	0.4
(1,314)	1:37:A:ALA:HB2	1:50:A:VAL:HG13	10	0.4
(1,314)	1:37:A:ALA:HB3	1:50:A:VAL:HG11	10	0.4
(1,314)	1:37:A:ALA:HB3	1:50:A:VAL:HG12	10	0.4
(1,314)	1:37:A:ALA:HB3	1:50:A:VAL:HG13	10	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,290)	1:20:A:ILE:HG13	1:127:A:ALA:HA	1	0.4
(1,147)	1:15:A:LEU:HD21	1:15:A:LEU:HB2	1	0.4
(1,147)	1:15:A:LEU:HD22	1:15:A:LEU:HB2	1	0.4
(1,147)	1:15:A:LEU:HD23	1:15:A:LEU:HB2	1	0.4
(1,147)	1:15:A:LEU:HD21	1:15:A:LEU:HB2	2	0.4
(1,147)	1:15:A:LEU:HD22	1:15:A:LEU:HB2	2	0.4
(1,147)	1:15:A:LEU:HD23	1:15:A:LEU:HB2	2	0.4
(1,147)	1:15:A:LEU:HD21	1:15:A:LEU:HB2	3	0.4
(1,147)	1:15:A:LEU:HD22	1:15:A:LEU:HB2	3	0.4
(1,147)	1:15:A:LEU:HD23	1:15:A:LEU:HB2	3	0.4
(1,147)	1:15:A:LEU:HD21	1:15:A:LEU:HB2	4	0.4
(1,147)	1:15:A:LEU:HD22	1:15:A:LEU:HB2	4	0.4
(1,147)	1:15:A:LEU:HD23	1:15:A:LEU:HB2	4	0.4
(1,147)	1:15:A:LEU:HD21	1:15:A:LEU:HB2	5	0.4
(1,147)	1:15:A:LEU:HD22	1:15:A:LEU:HB2	5	0.4
(1,147)	1:15:A:LEU:HD23	1:15:A:LEU:HB2	5	0.4
(1,147)	1:15:A:LEU:HD21	1:15:A:LEU:HB2	7	0.4
(1,147)	1:15:A:LEU:HD22	1:15:A:LEU:HB2	7	0.4
(1,147)	1:15:A:LEU:HD23	1:15:A:LEU:HB2	7	0.4
(1,147)	1:15:A:LEU:HD21	1:15:A:LEU:HB2	8	0.4
(1,147)	1:15:A:LEU:HD22	1:15:A:LEU:HB2	8	0.4
(1,147)	1:15:A:LEU:HD23	1:15:A:LEU:HB2	8	0.4
(1,147)	1:15:A:LEU:HD21	1:15:A:LEU:HB2	9	0.4
(1,147)	1:15:A:LEU:HD22	1:15:A:LEU:HB2	9	0.4
(1,147)	1:15:A:LEU:HD23	1:15:A:LEU:HB2	9	0.4
(1,147)	1:15:A:LEU:HD21	1:15:A:LEU:HB2	10	0.4
(1,147)	1:15:A:LEU:HD22	1:15:A:LEU:HB2	10	0.4
(1,147)	1:15:A:LEU:HD23	1:15:A:LEU:HB2	10	0.4
(1,138)	1:15:A:LEU:H	1:15:A:LEU:HD11	1	0.4
(1,138)	1:15:A:LEU:H	1:15:A:LEU:HD12	1	0.4
(1,138)	1:15:A:LEU:H	1:15:A:LEU:HD13	1	0.4
(1,52)	1:61:A:LEU:HD11	1:25:A:THR:HB	10	0.4
(1,52)	1:61:A:LEU:HD12	1:25:A:THR:HB	10	0.4
(1,52)	1:61:A:LEU:HD13	1:25:A:THR:HB	10	0.4
(3,1183)	1:55:A:SER:HB3	1:57:A:ASP:HB2	3	0.39
(3,1178)	1:109:A:PRO:HB2	1:109:A:PRO:HD3	1	0.39
(3,1178)	1:109:A:PRO:HB2	1:109:A:PRO:HD3	3	0.39
(3,1164)	1:26:A:LYS:HG3	1:29:A:GLY:H	7	0.39
(3,1087)	1:61:A:LEU:HD21	1:59:A:LEU:HB3	2	0.39
(3,1087)	1:61:A:LEU:HD22	1:59:A:LEU:HB3	2	0.39
(3,1087)	1:61:A:LEU:HD23	1:59:A:LEU:HB3	2	0.39
(3,1025)	1:102:A:THR:H	1:103:A:ILE:H	9	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,841)	1:80:A:LEU:H	1:123:A:ILE:HG22	9	0.39
(3,676)	1:108:A:GLY:H	1:107:A:THR:HG22	10	0.39
(3,628)	1:17:A:PRO:HD2	1:17:A:PRO:HB3	3	0.39
(3,628)	1:17:A:PRO:HD2	1:17:A:PRO:HB3	5	0.39
(3,537)	1:85:A:ARG:HD2	1:82:A:GLY:H	6	0.39
(3,440)	1:103:A:ILE:H	1:117:A:GLY:H	4	0.39
(3,371)	1:54:A:ASP:H	1:53:A:ILE:HG13	3	0.39
(3,366)	1:42:A:VAL:HG23	1:16:A:GLN:HG2	8	0.39
(3,165)	1:79:A:VAL:HG11	1:88:A:GLU:HA	3	0.39
(3,129)	1:77:A:ILE:HD11	1:123:A:ILE:HB	10	0.39
(2,593)	1:66:A:LEU:HB3	1:14:A:TRP:HE1	4	0.39
(2,61)	1:26:A:LYS:HE2	1:24:A:ILE:HA	4	0.39
(1,3676)	1:49:A:VAL:H	1:43:A:ILE:HB	9	0.39
(1,3648)	1:16:A:GLN:HE22	1:80:A:LEU:HG	3	0.39
(1,3648)	1:16:A:GLN:HE22	1:80:A:LEU:HG	7	0.39
(1,3590)	1:97:A:LYS:HB3	1:95:A:ASN:HD21	4	0.39
(1,3547)	1:84:A:TYR:HB2	1:79:A:VAL:H	1	0.39
(1,3446)	1:68:A:THR:HG21	1:14:A:TRP:HE1	7	0.39
(1,3446)	1:68:A:THR:HG22	1:14:A:TRP:HE1	7	0.39
(1,3446)	1:68:A:THR:HG23	1:14:A:TRP:HE1	7	0.39
(1,3363)	1:15:A:LEU:H	1:15:A:LEU:HD11	4	0.39
(1,3363)	1:15:A:LEU:H	1:15:A:LEU:HD12	4	0.39
(1,3363)	1:15:A:LEU:H	1:15:A:LEU:HD13	4	0.39
(1,3363)	1:15:A:LEU:H	1:15:A:LEU:HD11	5	0.39
(1,3363)	1:15:A:LEU:H	1:15:A:LEU:HD12	5	0.39
(1,3363)	1:15:A:LEU:H	1:15:A:LEU:HD13	5	0.39
(1,3163)	1:49:A:VAL:HG21	1:41:A:GLU:H	5	0.39
(1,3163)	1:49:A:VAL:HG22	1:41:A:GLU:H	5	0.39
(1,3163)	1:49:A:VAL:HG23	1:41:A:GLU:H	5	0.39
(1,3040)	1:54:A:ASP:H	1:53:A:ILE:HG21	2	0.39
(1,3040)	1:54:A:ASP:H	1:53:A:ILE:HG22	2	0.39
(1,3040)	1:54:A:ASP:H	1:53:A:ILE:HG23	2	0.39
(1,2985)	1:61:A:LEU:HB2	1:62:A:ASP:H	5	0.39
(1,2985)	1:61:A:LEU:HB2	1:62:A:ASP:H	6	0.39
(1,2976)	1:63:A:GLN:H	1:14:A:TRP:HE1	3	0.39
(1,2976)	1:63:A:GLN:H	1:14:A:TRP:HE1	10	0.39
(1,2878)	1:75:A:LYS:HE3	1:72:A:ALA:H	9	0.39
(1,2841)	1:111:A:LYS:HE3	1:112:A:GLY:H	10	0.39
(1,2736)	1:79:A:VAL:HG21	1:87:A:ASN:H	1	0.39
(1,2736)	1:79:A:VAL:HG22	1:87:A:ASN:H	1	0.39
(1,2736)	1:79:A:VAL:HG23	1:87:A:ASN:H	1	0.39
(1,2604)	1:95:A:ASN:HB2	1:99:A:PHE:H	1	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2517)	1:88:A:GLU:HB2	1:106:A:GLU:H	4	0.39
(1,2477)	1:110:A:LEU:HB3	1:111:A:LYS:H	10	0.39
(1,2456)	1:115:A:VAL:HG11	1:114:A:ARG:H	10	0.39
(1,2456)	1:115:A:VAL:HG12	1:114:A:ARG:H	10	0.39
(1,2456)	1:115:A:VAL:HG13	1:114:A:ARG:H	10	0.39
(1,2441)	1:84:A:TYR:HE1	1:116:A:GLU:H	7	0.39
(1,2441)	1:84:A:TYR:HE2	1:116:A:GLU:H	7	0.39
(1,2287)	1:20:A:ILE:HA	1:38:A:ILE:HG13	6	0.39
(1,2244)	1:15:A:LEU:HB2	1:48:A:ALA:HB1	6	0.39
(1,2244)	1:15:A:LEU:HB2	1:48:A:ALA:HB2	6	0.39
(1,2244)	1:15:A:LEU:HB2	1:48:A:ALA:HB3	6	0.39
(1,2183)	1:111:A:LYS:HE2	1:111:A:LYS:HA	2	0.39
(1,2168)	1:61:A:LEU:HG	1:65:A:HIS:HB3	6	0.39
(1,1959)	1:118:A:ILE:HD11	1:122:A:ASP:HB2	8	0.39
(1,1959)	1:118:A:ILE:HD12	1:122:A:ASP:HB2	8	0.39
(1,1959)	1:118:A:ILE:HD13	1:122:A:ASP:HB2	8	0.39
(1,1953)	1:118:A:ILE:HG13	1:118:A:ILE:HA	9	0.39
(1,1950)	1:118:A:ILE:HA	1:101:A:ALA:H	4	0.39
(1,1924)	1:113:A:ARG:HB3	1:115:A:VAL:HG11	4	0.39
(1,1924)	1:113:A:ARG:HB3	1:115:A:VAL:HG12	4	0.39
(1,1924)	1:113:A:ARG:HB3	1:115:A:VAL:HG13	4	0.39
(1,1810)	1:109:A:PRO:HB2	1:109:A:PRO:HD2	10	0.39
(1,1641)	1:117:A:GLY:HA3	1:100:A:SER:HB2	1	0.39
(1,1539)	1:92:A:GLU:HA	1:92:A:GLU:HG3	10	0.39
(1,1263)	1:76:A:ARG:HG3	1:76:A:ARG:HA	2	0.39
(1,1256)	1:90:A:THR:HG21	1:74:A:GLY:HA3	1	0.39
(1,1256)	1:90:A:THR:HG22	1:74:A:GLY:HA3	1	0.39
(1,1256)	1:90:A:THR:HG23	1:74:A:GLY:HA3	1	0.39
(1,1256)	1:90:A:THR:HG21	1:74:A:GLY:HA3	7	0.39
(1,1256)	1:90:A:THR:HG22	1:74:A:GLY:HA3	7	0.39
(1,1256)	1:90:A:THR:HG23	1:74:A:GLY:HA3	7	0.39
(1,1176)	1:70:A:ILE:H	1:70:A:ILE:HG13	10	0.39
(1,1037)	1:63:A:GLN:HG2	1:64:A:THR:HA	8	0.39
(1,1019)	1:63:A:GLN:H	1:63:A:GLN:HB2	9	0.39
(1,859)	1:37:A:ALA:HA	1:53:A:ILE:HD11	5	0.39
(1,859)	1:37:A:ALA:HA	1:53:A:ILE:HD12	5	0.39
(1,859)	1:37:A:ALA:HA	1:53:A:ILE:HD13	5	0.39
(1,849)	1:37:A:ALA:HA	1:53:A:ILE:HB	2	0.39
(1,834)	1:52:A:MET:HG2	1:59:A:LEU:HG	3	0.39
(1,633)	1:41:A:GLU:HG3	1:43:A:ILE:HD11	3	0.39
(1,633)	1:41:A:GLU:HG3	1:43:A:ILE:HD12	3	0.39
(1,633)	1:41:A:GLU:HG3	1:43:A:ILE:HD13	3	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,565)	1:17:A:PRO:HA	1:39:A:VAL:HG21	10	0.39
(1,565)	1:17:A:PRO:HA	1:39:A:VAL:HG22	10	0.39
(1,565)	1:17:A:PRO:HA	1:39:A:VAL:HG23	10	0.39
(1,558)	1:48:A:ALA:HB1	1:39:A:VAL:HB	8	0.39
(1,558)	1:48:A:ALA:HB2	1:39:A:VAL:HB	8	0.39
(1,558)	1:48:A:ALA:HB3	1:39:A:VAL:HB	8	0.39
(1,548)	1:39:A:VAL:HA	1:50:A:VAL:HB	1	0.39
(1,548)	1:39:A:VAL:HA	1:50:A:VAL:HB	2	0.39
(1,548)	1:39:A:VAL:HA	1:50:A:VAL:HB	7	0.39
(1,531)	1:53:A:ILE:H	1:37:A:ALA:HB1	4	0.39
(1,531)	1:53:A:ILE:H	1:37:A:ALA:HB2	4	0.39
(1,531)	1:53:A:ILE:H	1:37:A:ALA:HB3	4	0.39
(1,434)	1:61:A:LEU:HD21	1:59:A:LEU:HD11	2	0.39
(1,434)	1:61:A:LEU:HD21	1:59:A:LEU:HD12	2	0.39
(1,434)	1:61:A:LEU:HD21	1:59:A:LEU:HD13	2	0.39
(1,434)	1:61:A:LEU:HD22	1:59:A:LEU:HD11	2	0.39
(1,434)	1:61:A:LEU:HD22	1:59:A:LEU:HD12	2	0.39
(1,434)	1:61:A:LEU:HD22	1:59:A:LEU:HD13	2	0.39
(1,434)	1:61:A:LEU:HD23	1:59:A:LEU:HD11	2	0.39
(1,434)	1:61:A:LEU:HD23	1:59:A:LEU:HD12	2	0.39
(1,434)	1:61:A:LEU:HD23	1:59:A:LEU:HD13	2	0.39
(1,390)	1:24:A:ILE:HD11	1:67:A:GLU:HB3	3	0.39
(1,390)	1:24:A:ILE:HD12	1:67:A:GLU:HB3	3	0.39
(1,390)	1:24:A:ILE:HD13	1:67:A:GLU:HB3	3	0.39
(1,387)	1:65:A:HIS:HA	1:24:A:ILE:HD11	2	0.39
(1,387)	1:65:A:HIS:HA	1:24:A:ILE:HD12	2	0.39
(1,387)	1:65:A:HIS:HA	1:24:A:ILE:HD13	2	0.39
(1,384)	1:24:A:ILE:HD11	1:65:A:HIS:H	5	0.39
(1,384)	1:24:A:ILE:HD12	1:65:A:HIS:H	5	0.39
(1,384)	1:24:A:ILE:HD13	1:65:A:HIS:H	5	0.39
(1,169)	1:80:A:LEU:HD21	1:16:A:GLN:HG3	7	0.39
(1,169)	1:80:A:LEU:HD22	1:16:A:GLN:HG3	7	0.39
(1,169)	1:80:A:LEU:HD23	1:16:A:GLN:HG3	7	0.39
(1,147)	1:15:A:LEU:HD21	1:15:A:LEU:HB2	6	0.39
(1,147)	1:15:A:LEU:HD22	1:15:A:LEU:HB2	6	0.39
(1,147)	1:15:A:LEU:HD23	1:15:A:LEU:HB2	6	0.39
(1,35)	1:113:A:ARG:HG3	1:114:A:ARG:H	2	0.39
(3,1178)	1:109:A:PRO:HB2	1:109:A:PRO:HD3	4	0.38
(3,1157)	1:80:A:LEU:HD11	1:14:A:TRP:HZ3	8	0.38
(3,1135)	1:79:A:VAL:H	1:123:A:ILE:HG21	4	0.38
(3,1074)	1:78:A:LEU:H	1:77:A:ILE:HD13	5	0.38
(3,951)	1:124:A:SER:H	1:123:A:ILE:HG23	8	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,936)	1:77:A:ILE:HG13	1:103:A:ILE:HB	9	0.38
(3,782)	1:96:A:GLU:HB2	1:94:A:ILE:HD11	1	0.38
(3,782)	1:96:A:GLU:HB2	1:94:A:ILE:HD12	1	0.38
(3,782)	1:96:A:GLU:HB2	1:94:A:ILE:HD13	1	0.38
(3,758)	1:45:A:LYS:HB2	1:45:A:LYS:HD2	8	0.38
(3,751)	1:43:A:ILE:HG22	1:43:A:ILE:H	4	0.38
(3,732)	1:48:A:ALA:HB3	1:43:A:ILE:H	3	0.38
(3,676)	1:108:A:GLY:H	1:107:A:THR:HG23	7	0.38
(3,628)	1:17:A:PRO:HD2	1:17:A:PRO:HB3	7	0.38
(3,628)	1:17:A:PRO:HD2	1:17:A:PRO:HB3	8	0.38
(3,628)	1:17:A:PRO:HD2	1:17:A:PRO:HB3	10	0.38
(3,600)	1:54:A:ASP:H	1:53:A:ILE:HG13	2	0.38
(3,600)	1:20:A:ILE:HB	1:21:A:VAL:H	9	0.38
(3,600)	1:54:A:ASP:H	1:53:A:ILE:HG13	10	0.38
(3,564)	1:34:A:LYS:HE2	1:34:A:LYS:HG2	3	0.38
(3,537)	1:85:A:ARG:HD2	1:82:A:GLY:H	5	0.38
(3,471)	1:127:A:ALA:HB1	1:20:A:ILE:H	4	0.38
(3,471)	1:24:A:ILE:H	1:24:A:ILE:HG13	5	0.38
(3,426)	1:119:A:GLN:HA	1:100:A:SER:H	10	0.38
(3,293)	1:27:A:LYS:HG3	1:27:A:LYS:HA	4	0.38
(3,264)	1:77:A:ILE:H	1:91:A:LEU:H	2	0.38
(3,187)	1:16:A:GLN:H	1:14:A:TRP:HZ3	8	0.38
(3,148)	1:73:A:PRO:HG2	1:93:A:SER:HB3	9	0.38
(2,520)	1:78:A:LEU:H	1:88:A:GLU:HG2	4	0.38
(2,393)	1:73:A:PRO:HG2	1:70:A:ILE:HG21	1	0.38
(2,393)	1:73:A:PRO:HG2	1:70:A:ILE:HG22	1	0.38
(2,393)	1:73:A:PRO:HG2	1:70:A:ILE:HG23	1	0.38
(2,393)	1:73:A:PRO:HG2	1:70:A:ILE:HG21	8	0.38
(2,393)	1:73:A:PRO:HG2	1:70:A:ILE:HG22	8	0.38
(2,393)	1:73:A:PRO:HG2	1:70:A:ILE:HG23	8	0.38
(2,338)	1:126:A:LEU:HB3	1:77:A:ILE:HG12	3	0.38
(2,142)	1:10:A:ARG:HA	1:82:A:GLY:HA3	7	0.38
(1,3728)	1:97:A:LYS:H	1:95:A:ASN:HD21	8	0.38
(1,3710)	1:82:A:GLY:H	1:85:A:ARG:HA	1	0.38
(1,3697)	1:68:A:THR:H	1:14:A:TRP:HE1	9	0.38
(1,3695)	1:68:A:THR:H	1:121:A:GLU:HB2	10	0.38
(1,3676)	1:49:A:VAL:H	1:43:A:ILE:HB	6	0.38
(1,3545)	1:66:A:LEU:H	1:63:A:GLN:HG2	9	0.38
(1,3475)	1:19:A:ILE:HD11	1:18:A:GLU:H	8	0.38
(1,3475)	1:19:A:ILE:HD12	1:18:A:GLU:H	8	0.38
(1,3475)	1:19:A:ILE:HD13	1:18:A:GLU:H	8	0.38
(1,3363)	1:15:A:LEU:H	1:15:A:LEU:HD11	3	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3363)	1:15:A:LEU:H	1:15:A:LEU:HD12	3	0.38
(1,3363)	1:15:A:LEU:H	1:15:A:LEU:HD13	3	0.38
(1,3322)	1:22:A:LYS:H	1:67:A:GLU:HB2	9	0.38
(1,3278)	1:28:A:LEU:H	1:28:A:LEU:HD11	2	0.38
(1,3278)	1:28:A:LEU:H	1:28:A:LEU:HD12	2	0.38
(1,3278)	1:28:A:LEU:H	1:28:A:LEU:HD13	2	0.38
(1,2841)	1:111:A:LYS:HE2	1:112:A:GLY:H	4	0.38
(1,2816)	1:85:A:ARG:HA	1:79:A:VAL:H	4	0.38
(1,2784)	1:82:A:GLY:H	1:10:A:ARG:HG2	4	0.38
(1,2749)	1:85:A:ARG:HG3	1:86:A:GLY:H	4	0.38
(1,2749)	1:85:A:ARG:HG3	1:86:A:GLY:H	6	0.38
(1,2572)	1:101:A:ALA:H	1:100:A:SER:HB3	3	0.38
(1,2382)	1:120:A:TYR:H	1:119:A:GLN:HB2	8	0.38
(1,2275)	1:21:A:VAL:HG21	1:22:A:LYS:H	6	0.38
(1,2275)	1:21:A:VAL:HG22	1:22:A:LYS:H	6	0.38
(1,2275)	1:21:A:VAL:HG23	1:22:A:LYS:H	6	0.38
(1,2240)	1:79:A:VAL:HG11	1:123:A:ILE:HG21	4	0.38
(1,2240)	1:79:A:VAL:HG11	1:123:A:ILE:HG22	4	0.38
(1,2240)	1:79:A:VAL:HG11	1:123:A:ILE:HG23	4	0.38
(1,2240)	1:79:A:VAL:HG12	1:123:A:ILE:HG21	4	0.38
(1,2240)	1:79:A:VAL:HG12	1:123:A:ILE:HG22	4	0.38
(1,2240)	1:79:A:VAL:HG12	1:123:A:ILE:HG23	4	0.38
(1,2240)	1:79:A:VAL:HG13	1:123:A:ILE:HG21	4	0.38
(1,2240)	1:79:A:VAL:HG13	1:123:A:ILE:HG22	4	0.38
(1,2240)	1:79:A:VAL:HG13	1:123:A:ILE:HG23	4	0.38
(1,2183)	1:111:A:LYS:HE2	1:111:A:LYS:HA	9	0.38
(1,2122)	1:78:A:LEU:HA	1:123:A:ILE:HG21	8	0.38
(1,2122)	1:78:A:LEU:HA	1:123:A:ILE:HG22	8	0.38
(1,2122)	1:78:A:LEU:HA	1:123:A:ILE:HG23	8	0.38
(1,2122)	1:78:A:LEU:HA	1:123:A:ILE:HG21	9	0.38
(1,2122)	1:78:A:LEU:HA	1:123:A:ILE:HG22	9	0.38
(1,2122)	1:78:A:LEU:HA	1:123:A:ILE:HG23	9	0.38
(1,1953)	1:118:A:ILE:HG13	1:118:A:ILE:HA	2	0.38
(1,1938)	1:116:A:GLU:H	1:116:A:GLU:HG2	10	0.38
(1,1924)	1:113:A:ARG:HB3	1:115:A:VAL:HG11	9	0.38
(1,1924)	1:113:A:ARG:HB3	1:115:A:VAL:HG12	9	0.38
(1,1924)	1:113:A:ARG:HB3	1:115:A:VAL:HG13	9	0.38
(1,1910)	1:115:A:VAL:HG11	1:115:A:VAL:HA	1	0.38
(1,1910)	1:115:A:VAL:HG12	1:115:A:VAL:HA	1	0.38
(1,1910)	1:115:A:VAL:HG13	1:115:A:VAL:HA	1	0.38
(1,1910)	1:115:A:VAL:HG11	1:115:A:VAL:HA	2	0.38
(1,1910)	1:115:A:VAL:HG12	1:115:A:VAL:HA	2	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1910)	1:115:A:VAL:HG13	1:115:A:VAL:HA	2	0.38
(1,1910)	1:115:A:VAL:HG11	1:115:A:VAL:HA	3	0.38
(1,1910)	1:115:A:VAL:HG12	1:115:A:VAL:HA	3	0.38
(1,1910)	1:115:A:VAL:HG13	1:115:A:VAL:HA	3	0.38
(1,1910)	1:115:A:VAL:HG11	1:115:A:VAL:HA	5	0.38
(1,1910)	1:115:A:VAL:HG12	1:115:A:VAL:HA	5	0.38
(1,1910)	1:115:A:VAL:HG13	1:115:A:VAL:HA	5	0.38
(1,1898)	1:115:A:VAL:H	1:114:A:ARG:HG2	6	0.38
(1,1896)	1:114:A:ARG:HA	1:114:A:ARG:HG2	10	0.38
(1,1882)	1:113:A:ARG:HA	1:113:A:ARG:HD2	4	0.38
(1,1810)	1:109:A:PRO:HB2	1:109:A:PRO:HD2	5	0.38
(1,1765)	1:105:A:ILE:HG21	1:87:A:ASN:HB2	2	0.38
(1,1765)	1:105:A:ILE:HG22	1:87:A:ASN:HB2	2	0.38
(1,1765)	1:105:A:ILE:HG23	1:87:A:ASN:HB2	2	0.38
(1,1742)	1:84:A:TYR:HB2	1:105:A:ILE:HD11	5	0.38
(1,1742)	1:84:A:TYR:HB2	1:105:A:ILE:HD12	5	0.38
(1,1742)	1:84:A:TYR:HB2	1:105:A:ILE:HD13	5	0.38
(1,1641)	1:117:A:GLY:HA3	1:100:A:SER:HB2	2	0.38
(1,1641)	1:117:A:GLY:HA3	1:100:A:SER:HB2	9	0.38
(1,1640)	1:119:A:GLN:HA	1:100:A:SER:HB2	2	0.38
(1,1585)	1:94:A:ILE:HG21	1:101:A:ALA:HA	3	0.38
(1,1585)	1:94:A:ILE:HG22	1:101:A:ALA:HA	3	0.38
(1,1585)	1:94:A:ILE:HG23	1:101:A:ALA:HA	3	0.38
(1,1560)	1:92:A:GLU:HG3	1:93:A:SER:HB3	2	0.38
(1,1532)	1:93:A:SER:HA	1:73:A:PRO:HG2	8	0.38
(1,1478)	1:126:A:LEU:HD21	1:88:A:GLU:HB3	1	0.38
(1,1478)	1:126:A:LEU:HD22	1:88:A:GLU:HB3	1	0.38
(1,1478)	1:126:A:LEU:HD23	1:88:A:GLU:HB3	1	0.38
(1,1277)	1:97:A:LYS:HB3	1:98:A:THR:H	5	0.38
(1,1263)	1:76:A:ARG:HG3	1:76:A:ARG:HA	8	0.38
(1,924)	1:40:A:LYS:HE2	1:38:A:ILE:H	1	0.38
(1,781)	1:48:A:ALA:HB1	1:39:A:VAL:HB	9	0.38
(1,781)	1:48:A:ALA:HB2	1:39:A:VAL:HB	9	0.38
(1,781)	1:48:A:ALA:HB3	1:39:A:VAL:HB	9	0.38
(1,662)	1:45:A:LYS:HA	1:42:A:VAL:HG21	2	0.38
(1,662)	1:45:A:LYS:HA	1:42:A:VAL:HG22	2	0.38
(1,662)	1:45:A:LYS:HA	1:42:A:VAL:HG23	2	0.38
(1,571)	1:39:A:VAL:HG11	1:50:A:VAL:HA	1	0.38
(1,571)	1:39:A:VAL:HG12	1:50:A:VAL:HA	1	0.38
(1,571)	1:39:A:VAL:HG13	1:50:A:VAL:HA	1	0.38
(1,571)	1:39:A:VAL:HG11	1:50:A:VAL:HA	5	0.38
(1,571)	1:39:A:VAL:HG12	1:50:A:VAL:HA	5	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,571)	1:39:A:VAL:HG13	1:50:A:VAL:HA	5	0.38
(1,178)	1:17:A:PRO:HA	1:39:A:VAL:HG21	3	0.38
(1,178)	1:17:A:PRO:HA	1:39:A:VAL:HG22	3	0.38
(1,178)	1:17:A:PRO:HA	1:39:A:VAL:HG23	3	0.38
(1,52)	1:61:A:LEU:HD11	1:25:A:THR:HB	9	0.38
(1,52)	1:61:A:LEU:HD12	1:25:A:THR:HB	9	0.38
(1,52)	1:61:A:LEU:HD13	1:25:A:THR:HB	9	0.38
(1,25)	1:7:A:ARG:HA	1:7:A:ARG:HG2	4	0.38
(3,1178)	1:109:A:PRO:HB2	1:109:A:PRO:HD3	2	0.37
(3,1178)	1:109:A:PRO:HB2	1:109:A:PRO:HD3	9	0.37
(3,1157)	1:80:A:LEU:HD12	1:14:A:TRP:HZ3	7	0.37
(3,1142)	1:109:A:PRO:HB2	1:109:A:PRO:HD3	5	0.37
(3,1142)	1:109:A:PRO:HB2	1:109:A:PRO:HD3	10	0.37
(3,1042)	1:19:A:ILE:HA	1:127:A:ALA:HA	6	0.37
(3,1025)	1:102:A:THR:H	1:103:A:ILE:H	3	0.37
(3,1020)	1:110:A:LEU:HB2	1:110:A:LEU:HA	10	0.37
(3,928)	1:120:A:TYR:HA	1:123:A:ILE:HG21	7	0.37
(3,758)	1:45:A:LYS:HB2	1:45:A:LYS:HD3	1	0.37
(3,751)	1:43:A:ILE:HG21	1:43:A:ILE:H	5	0.37
(3,671)	1:40:A:LYS:HB3	1:41:A:GLU:H	1	0.37
(3,634)	1:103:A:ILE:HG12	1:104:A:VAL:H	4	0.37
(3,568)	1:19:A:ILE:HG21	1:78:A:LEU:HD13	4	0.37
(3,381)	1:45:A:LYS:H	1:44:A:ASP:HB3	2	0.37
(3,345)	1:35:A:LYS:H	1:22:A:LYS:HG3	2	0.37
(3,257)	1:53:A:ILE:H	1:53:A:ILE:HD13	4	0.37
(3,122)	1:44:A:ASP:HB3	1:43:A:ILE:HG22	8	0.37
(3,30)	1:103:A:ILE:H	1:103:A:ILE:HD12	10	0.37
(2,338)	1:126:A:LEU:HB3	1:77:A:ILE:HG12	7	0.37
(1,3676)	1:49:A:VAL:H	1:43:A:ILE:HB	7	0.37
(1,3643)	1:13:A:TYR:H	1:63:A:GLN:HE21	5	0.37
(1,3643)	1:13:A:TYR:H	1:63:A:GLN:HE21	10	0.37
(1,3641)	1:11:A:THR:H	1:81:A:ASN:HD21	7	0.37
(1,3545)	1:66:A:LEU:H	1:63:A:GLN:HG2	2	0.37
(1,3488)	1:29:A:GLY:H	1:32:A:TYR:HE1	6	0.37
(1,3488)	1:29:A:GLY:H	1:32:A:TYR:HE2	6	0.37
(1,3392)	1:11:A:THR:H	1:13:A:TYR:H	10	0.37
(1,3163)	1:49:A:VAL:HG11	1:41:A:GLU:H	3	0.37
(1,3163)	1:49:A:VAL:HG12	1:41:A:GLU:H	3	0.37
(1,3163)	1:49:A:VAL:HG13	1:41:A:GLU:H	3	0.37
(1,3146)	1:42:A:VAL:HG21	1:43:A:ILE:H	3	0.37
(1,3146)	1:42:A:VAL:HG22	1:43:A:ILE:H	3	0.37
(1,3146)	1:42:A:VAL:HG23	1:43:A:ILE:H	3	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3077)	1:49:A:VAL:H	1:43:A:ILE:H	6	0.37
(1,3077)	1:49:A:VAL:H	1:43:A:ILE:H	9	0.37
(1,2985)	1:61:A:LEU:HB2	1:62:A:ASP:H	10	0.37
(1,2976)	1:63:A:GLN:H	1:14:A:TRP:HE1	5	0.37
(1,2976)	1:63:A:GLN:H	1:14:A:TRP:HE1	9	0.37
(1,2906)	1:68:A:THR:H	1:66:A:LEU:HA	3	0.37
(1,2848)	1:76:A:ARG:H	1:76:A:ARG:HD2	9	0.37
(1,2794)	1:81:A:ASN:H	1:80:A:LEU:HB3	2	0.37
(1,2794)	1:81:A:ASN:H	1:80:A:LEU:HB3	10	0.37
(1,2736)	1:79:A:VAL:HG21	1:87:A:ASN:H	4	0.37
(1,2736)	1:79:A:VAL:HG22	1:87:A:ASN:H	4	0.37
(1,2736)	1:79:A:VAL:HG23	1:87:A:ASN:H	4	0.37
(1,2418)	1:118:A:ILE:HG13	1:118:A:ILE:H	10	0.37
(1,2316)	1:127:A:ALA:H	1:19:A:ILE:HB	2	0.37
(1,2275)	1:21:A:VAL:HG21	1:22:A:LYS:H	8	0.37
(1,2275)	1:21:A:VAL:HG22	1:22:A:LYS:H	8	0.37
(1,2275)	1:21:A:VAL:HG23	1:22:A:LYS:H	8	0.37
(1,2183)	1:111:A:LYS:HE2	1:111:A:LYS:HA	5	0.37
(1,2007)	1:78:A:LEU:H	1:123:A:ILE:HA	3	0.37
(1,1956)	1:118:A:ILE:HD11	1:84:A:TYR:HD1	9	0.37
(1,1956)	1:118:A:ILE:HD11	1:84:A:TYR:HD2	9	0.37
(1,1956)	1:118:A:ILE:HD12	1:84:A:TYR:HD1	9	0.37
(1,1956)	1:118:A:ILE:HD12	1:84:A:TYR:HD2	9	0.37
(1,1956)	1:118:A:ILE:HD13	1:84:A:TYR:HD1	9	0.37
(1,1956)	1:118:A:ILE:HD13	1:84:A:TYR:HD2	9	0.37
(1,1953)	1:118:A:ILE:HG13	1:118:A:ILE:HA	5	0.37
(1,1953)	1:118:A:ILE:HG13	1:118:A:ILE:HA	8	0.37
(1,1953)	1:118:A:ILE:HG13	1:118:A:ILE:HA	10	0.37
(1,1936)	1:116:A:GLU:H	1:116:A:GLU:HG2	9	0.37
(1,1910)	1:115:A:VAL:HG11	1:115:A:VAL:HA	7	0.37
(1,1910)	1:115:A:VAL:HG12	1:115:A:VAL:HA	7	0.37
(1,1910)	1:115:A:VAL:HG13	1:115:A:VAL:HA	7	0.37
(1,1823)	1:110:A:LEU:H	1:109:A:PRO:HG2	2	0.37
(1,1823)	1:110:A:LEU:H	1:109:A:PRO:HG2	6	0.37
(1,1760)	1:105:A:ILE:HG21	1:111:A:LYS:H	6	0.37
(1,1760)	1:105:A:ILE:HG22	1:111:A:LYS:H	6	0.37
(1,1760)	1:105:A:ILE:HG23	1:111:A:LYS:H	6	0.37
(1,1608)	1:97:A:LYS:HG2	1:97:A:LYS:HA	5	0.37
(1,1537)	1:97:A:LYS:HB3	1:98:A:THR:H	5	0.37
(1,1526)	1:92:A:GLU:H	1:91:A:LEU:HG	5	0.37
(1,1263)	1:76:A:ARG:HG3	1:76:A:ARG:HA	4	0.37
(1,1262)	1:75:A:LYS:HD2	1:75:A:LYS:HA	3	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1258)	1:75:A:LYS:HD2	1:75:A:LYS:HA	5	0.37
(1,1215)	1:75:A:LYS:HE3	1:72:A:ALA:HB1	5	0.37
(1,1215)	1:75:A:LYS:HE3	1:72:A:ALA:HB2	5	0.37
(1,1215)	1:75:A:LYS:HE3	1:72:A:ALA:HB3	5	0.37
(1,1176)	1:70:A:ILE:H	1:70:A:ILE:HG13	2	0.37
(1,1062)	1:65:A:HIS:HB3	1:61:A:LEU:HB2	10	0.37
(1,856)	1:38:A:ILE:H	1:53:A:ILE:HD11	4	0.37
(1,856)	1:38:A:ILE:H	1:53:A:ILE:HD12	4	0.37
(1,856)	1:38:A:ILE:H	1:53:A:ILE:HD13	4	0.37
(1,849)	1:37:A:ALA:HA	1:53:A:ILE:HB	3	0.37
(1,836)	1:52:A:MET:HG2	1:32:A:TYR:HE1	3	0.37
(1,836)	1:52:A:MET:HG2	1:32:A:TYR:HE2	3	0.37
(1,804)	1:50:A:VAL:HG21	1:59:A:LEU:HD21	1	0.37
(1,804)	1:50:A:VAL:HG21	1:59:A:LEU:HD22	1	0.37
(1,804)	1:50:A:VAL:HG21	1:59:A:LEU:HD23	1	0.37
(1,804)	1:50:A:VAL:HG22	1:59:A:LEU:HD21	1	0.37
(1,804)	1:50:A:VAL:HG22	1:59:A:LEU:HD22	1	0.37
(1,804)	1:50:A:VAL:HG22	1:59:A:LEU:HD23	1	0.37
(1,804)	1:50:A:VAL:HG23	1:59:A:LEU:HD21	1	0.37
(1,804)	1:50:A:VAL:HG23	1:59:A:LEU:HD22	1	0.37
(1,804)	1:50:A:VAL:HG23	1:59:A:LEU:HD23	1	0.37
(1,700)	1:43:A:ILE:HG12	1:41:A:GLU:HG3	6	0.37
(1,693)	1:80:A:LEU:HD11	1:124:A:SER:HB2	10	0.37
(1,693)	1:80:A:LEU:HD12	1:124:A:SER:HB2	10	0.37
(1,693)	1:80:A:LEU:HD13	1:124:A:SER:HB2	10	0.37
(1,585)	1:127:A:ALA:HA	1:38:A:ILE:HD11	7	0.37
(1,585)	1:127:A:ALA:HA	1:38:A:ILE:HD12	7	0.37
(1,585)	1:127:A:ALA:HA	1:38:A:ILE:HD13	7	0.37
(1,571)	1:39:A:VAL:HG11	1:50:A:VAL:HA	10	0.37
(1,571)	1:39:A:VAL:HG12	1:50:A:VAL:HA	10	0.37
(1,571)	1:39:A:VAL:HG13	1:50:A:VAL:HA	10	0.37
(1,531)	1:53:A:ILE:H	1:37:A:ALA:HB1	7	0.37
(1,531)	1:53:A:ILE:H	1:37:A:ALA:HB2	7	0.37
(1,531)	1:53:A:ILE:H	1:37:A:ALA:HB3	7	0.37
(1,440)	1:111:A:LYS:HD2	1:107:A:THR:HA	10	0.37
(1,384)	1:24:A:ILE:HD11	1:65:A:HIS:H	3	0.37
(1,384)	1:24:A:ILE:HD12	1:65:A:HIS:H	3	0.37
(1,384)	1:24:A:ILE:HD13	1:65:A:HIS:H	3	0.37
(1,178)	1:17:A:PRO:HA	1:39:A:VAL:HG21	1	0.37
(1,178)	1:17:A:PRO:HA	1:39:A:VAL:HG22	1	0.37
(1,178)	1:17:A:PRO:HA	1:39:A:VAL:HG23	1	0.37
(1,178)	1:17:A:PRO:HA	1:39:A:VAL:HG21	5	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,178)	1:17:A:PRO:HA	1:39:A:VAL:HG22	5	0.37
(1,178)	1:17:A:PRO:HA	1:39:A:VAL:HG23	5	0.37
(1,143)	1:15:A:LEU:HD11	1:63:A:GLN:HB2	3	0.37
(1,143)	1:15:A:LEU:HD12	1:63:A:GLN:HB2	3	0.37
(1,143)	1:15:A:LEU:HD13	1:63:A:GLN:HB2	3	0.37
(1,138)	1:15:A:LEU:H	1:15:A:LEU:HD11	7	0.37
(1,138)	1:15:A:LEU:H	1:15:A:LEU:HD12	7	0.37
(1,138)	1:15:A:LEU:H	1:15:A:LEU:HD13	7	0.37
(3,1221)	1:61:A:LEU:HD11	1:59:A:LEU:HD11	9	0.36
(3,1173)	1:84:A:TYR:HE2	1:113:A:ARG:HG2	1	0.36
(3,1156)	1:10:A:ARG:HG2	1:10:A:ARG:H	2	0.36
(3,1135)	1:79:A:VAL:H	1:123:A:ILE:HG23	9	0.36
(3,1091)	1:112:A:GLY:H	1:105:A:ILE:H	3	0.36
(3,1087)	1:61:A:LEU:HD21	1:59:A:LEU:HB3	1	0.36
(3,1087)	1:61:A:LEU:HD22	1:59:A:LEU:HB3	1	0.36
(3,1087)	1:61:A:LEU:HD23	1:59:A:LEU:HB3	1	0.36
(3,1076)	1:97:A:LYS:H	1:97:A:LYS:HD3	9	0.36
(3,1042)	1:19:A:ILE:HA	1:127:A:ALA:HA	5	0.36
(3,1025)	1:102:A:THR:H	1:103:A:ILE:H	1	0.36
(3,1025)	1:102:A:THR:H	1:103:A:ILE:H	2	0.36
(3,951)	1:124:A:SER:H	1:123:A:ILE:HG22	7	0.36
(3,876)	1:10:A:ARG:HD3	1:81:A:ASN:HD21	8	0.36
(3,782)	1:96:A:GLU:HB3	1:94:A:ILE:HD11	6	0.36
(3,782)	1:96:A:GLU:HB3	1:94:A:ILE:HD12	6	0.36
(3,782)	1:96:A:GLU:HB3	1:94:A:ILE:HD13	6	0.36
(3,767)	1:77:A:ILE:H	1:77:A:ILE:HD12	2	0.36
(3,758)	1:45:A:LYS:HB2	1:45:A:LYS:HD2	10	0.36
(3,751)	1:43:A:ILE:HG23	1:43:A:ILE:H	6	0.36
(3,751)	1:43:A:ILE:HG21	1:43:A:ILE:H	9	0.36
(3,732)	1:43:A:ILE:H	1:43:A:ILE:HG12	2	0.36
(3,732)	1:43:A:ILE:H	1:43:A:ILE:HG12	5	0.36
(3,732)	1:43:A:ILE:H	1:43:A:ILE:HG12	6	0.36
(3,732)	1:43:A:ILE:H	1:43:A:ILE:HG12	9	0.36
(3,676)	1:108:A:GLY:H	1:107:A:THR:HG23	1	0.36
(3,537)	1:76:A:ARG:H	1:76:A:ARG:HD2	8	0.36
(3,403)	1:113:A:ARG:HB2	1:105:A:ILE:H	9	0.36
(3,342)	1:113:A:ARG:HB2	1:114:A:ARG:H	2	0.36
(3,342)	1:113:A:ARG:HB2	1:114:A:ARG:H	5	0.36
(3,293)	1:27:A:LYS:HG3	1:27:A:LYS:HA	1	0.36
(3,293)	1:27:A:LYS:HG3	1:27:A:LYS:HA	7	0.36
(3,264)	1:77:A:ILE:H	1:91:A:LEU:H	10	0.36
(3,125)	1:44:A:ASP:HB2	1:46:A:TYR:HD1	8	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,30)	1:103:A:ILE:H	1:103:A:ILE:HD12	6	0.36
(3,4)	1:102:A:THR:HG23	1:116:A:GLU:H	6	0.36
(2,142)	1:10:A:ARG:HA	1:82:A:GLY:HA3	10	0.36
(1,3849)	1:84:A:TYR:HE1	1:105:A:ILE:HD11	3	0.36
(1,3849)	1:84:A:TYR:HE1	1:105:A:ILE:HD12	3	0.36
(1,3849)	1:84:A:TYR:HE1	1:105:A:ILE:HD13	3	0.36
(1,3849)	1:84:A:TYR:HE2	1:105:A:ILE:HD11	3	0.36
(1,3849)	1:84:A:TYR:HE2	1:105:A:ILE:HD12	3	0.36
(1,3849)	1:84:A:TYR:HE2	1:105:A:ILE:HD13	3	0.36
(1,3840)	1:46:A:TYR:HE1	1:13:A:TYR:HB2	1	0.36
(1,3840)	1:46:A:TYR:HE2	1:13:A:TYR:HB2	1	0.36
(1,3778)	1:45:A:LYS:HB3	1:46:A:TYR:HD1	1	0.36
(1,3778)	1:45:A:LYS:HB3	1:46:A:TYR:HD2	1	0.36
(1,3642)	1:13:A:TYR:H	1:45:A:LYS:HB2	7	0.36
(1,3575)	1:87:A:ASN:H	1:87:A:ASN:HD22	4	0.36
(1,3557)	1:10:A:ARG:HG2	1:81:A:ASN:HD21	7	0.36
(1,3547)	1:84:A:TYR:HB2	1:79:A:VAL:H	2	0.36
(1,3444)	1:63:A:GLN:HB3	1:14:A:TRP:HE1	10	0.36
(1,3363)	1:15:A:LEU:H	1:15:A:LEU:HD11	1	0.36
(1,3363)	1:15:A:LEU:H	1:15:A:LEU:HD12	1	0.36
(1,3363)	1:15:A:LEU:H	1:15:A:LEU:HD13	1	0.36
(1,3245)	1:30:A:GLU:HG2	1:33:A:HIS:H	2	0.36
(1,3163)	1:49:A:VAL:HG21	1:41:A:GLU:H	4	0.36
(1,3163)	1:49:A:VAL:HG22	1:41:A:GLU:H	4	0.36
(1,3163)	1:49:A:VAL:HG23	1:41:A:GLU:H	4	0.36
(1,3122)	1:45:A:LYS:H	1:42:A:VAL:HG21	3	0.36
(1,3122)	1:45:A:LYS:H	1:42:A:VAL:HG22	3	0.36
(1,3122)	1:45:A:LYS:H	1:42:A:VAL:HG23	3	0.36
(1,3089)	1:48:A:ALA:H	1:63:A:GLN:HA	10	0.36
(1,3077)	1:49:A:VAL:H	1:43:A:ILE:H	8	0.36
(1,2807)	1:79:A:VAL:HG11	1:80:A:LEU:H	7	0.36
(1,2807)	1:79:A:VAL:HG12	1:80:A:LEU:H	7	0.36
(1,2807)	1:79:A:VAL:HG13	1:80:A:LEU:H	7	0.36
(1,2608)	1:97:A:LYS:HB3	1:98:A:THR:H	3	0.36
(1,2467)	1:113:A:ARG:H	1:105:A:ILE:HG13	3	0.36
(1,2418)	1:118:A:ILE:HG13	1:118:A:ILE:H	2	0.36
(1,2418)	1:118:A:ILE:HG13	1:118:A:ILE:H	4	0.36
(1,2287)	1:20:A:ILE:HA	1:38:A:ILE:HG13	10	0.36
(1,2183)	1:111:A:LYS:HE2	1:111:A:LYS:HA	6	0.36
(1,2168)	1:61:A:LEU:HG	1:65:A:HIS:HB3	5	0.36
(1,2161)	1:115:A:VAL:HG21	1:118:A:ILE:HG13	1	0.36
(1,2161)	1:115:A:VAL:HG22	1:118:A:ILE:HG13	1	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2161)	1:115:A:VAL:HG23	1:118:A:ILE:HG13	1	0.36
(1,2122)	1:78:A:LEU:HA	1:123:A:ILE:HG21	2	0.36
(1,2122)	1:78:A:LEU:HA	1:123:A:ILE:HG22	2	0.36
(1,2122)	1:78:A:LEU:HA	1:123:A:ILE:HG23	2	0.36
(1,1953)	1:118:A:ILE:HG13	1:118:A:ILE:HA	4	0.36
(1,1890)	1:84:A:TYR:HE1	1:113:A:ARG:HD3	5	0.36
(1,1890)	1:84:A:TYR:HE2	1:113:A:ARG:HD3	5	0.36
(1,1765)	1:105:A:ILE:HG21	1:87:A:ASN:HB2	1	0.36
(1,1765)	1:105:A:ILE:HG22	1:87:A:ASN:HB2	1	0.36
(1,1765)	1:105:A:ILE:HG23	1:87:A:ASN:HB2	1	0.36
(1,1765)	1:105:A:ILE:HG21	1:87:A:ASN:HB2	10	0.36
(1,1765)	1:105:A:ILE:HG22	1:87:A:ASN:HB2	10	0.36
(1,1765)	1:105:A:ILE:HG23	1:87:A:ASN:HB2	10	0.36
(1,1640)	1:119:A:GLN:HA	1:100:A:SER:HB2	9	0.36
(1,1638)	1:118:A:ILE:H	1:100:A:SER:HB2	5	0.36
(1,1277)	1:97:A:LYS:HB3	1:98:A:THR:H	8	0.36
(1,1263)	1:76:A:ARG:HG3	1:76:A:ARG:HA	6	0.36
(1,881)	1:54:A:ASP:HA	1:53:A:ILE:HG21	10	0.36
(1,881)	1:54:A:ASP:HA	1:53:A:ILE:HG22	10	0.36
(1,881)	1:54:A:ASP:HA	1:53:A:ILE:HG23	10	0.36
(1,855)	1:37:A:ALA:H	1:53:A:ILE:HD11	3	0.36
(1,855)	1:37:A:ALA:H	1:53:A:ILE:HD12	3	0.36
(1,855)	1:37:A:ALA:H	1:53:A:ILE:HD13	3	0.36
(1,781)	1:48:A:ALA:HB1	1:39:A:VAL:HB	2	0.36
(1,781)	1:48:A:ALA:HB2	1:39:A:VAL:HB	2	0.36
(1,781)	1:48:A:ALA:HB3	1:39:A:VAL:HB	2	0.36
(1,781)	1:48:A:ALA:HB1	1:39:A:VAL:HB	10	0.36
(1,781)	1:48:A:ALA:HB2	1:39:A:VAL:HB	10	0.36
(1,781)	1:48:A:ALA:HB3	1:39:A:VAL:HB	10	0.36
(1,578)	1:42:A:VAL:HG11	1:39:A:VAL:HG21	7	0.36
(1,578)	1:42:A:VAL:HG11	1:39:A:VAL:HG22	7	0.36
(1,578)	1:42:A:VAL:HG11	1:39:A:VAL:HG23	7	0.36
(1,578)	1:42:A:VAL:HG12	1:39:A:VAL:HG21	7	0.36
(1,578)	1:42:A:VAL:HG12	1:39:A:VAL:HG22	7	0.36
(1,578)	1:42:A:VAL:HG12	1:39:A:VAL:HG23	7	0.36
(1,578)	1:42:A:VAL:HG13	1:39:A:VAL:HG21	7	0.36
(1,578)	1:42:A:VAL:HG13	1:39:A:VAL:HG22	7	0.36
(1,578)	1:42:A:VAL:HG13	1:39:A:VAL:HG23	7	0.36
(1,571)	1:39:A:VAL:HG11	1:50:A:VAL:HA	2	0.36
(1,571)	1:39:A:VAL:HG12	1:50:A:VAL:HA	2	0.36
(1,571)	1:39:A:VAL:HG13	1:50:A:VAL:HA	2	0.36
(3,1181)	1:55:A:SER:HB3	1:57:A:ASP:HB2	9	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1178)	1:17:A:PRO:HD2	1:16:A:GLN:HG2	7	0.35
(3,1093)	1:70:A:ILE:HD12	1:123:A:ILE:H	5	0.35
(3,1074)	1:78:A:LEU:H	1:77:A:ILE:HD12	10	0.35
(3,951)	1:124:A:SER:H	1:123:A:ILE:HG23	2	0.35
(3,951)	1:80:A:LEU:HD13	1:124:A:SER:H	4	0.35
(3,855)	1:17:A:PRO:HD3	1:16:A:GLN:HB2	9	0.35
(3,758)	1:45:A:LYS:HB2	1:45:A:LYS:HD2	3	0.35
(3,758)	1:45:A:LYS:HB2	1:45:A:LYS:HD2	6	0.35
(3,751)	1:43:A:ILE:HG22	1:43:A:ILE:H	2	0.35
(3,732)	1:43:A:ILE:H	1:43:A:ILE:HG12	10	0.35
(3,676)	1:108:A:GLY:H	1:107:A:THR:HG22	9	0.35
(3,633)	1:51:A:LYS:HG3	1:56:A:GLY:H	2	0.35
(3,633)	1:51:A:LYS:HG3	1:56:A:GLY:H	9	0.35
(3,600)	1:54:A:ASP:H	1:53:A:ILE:HG13	3	0.35
(3,381)	1:45:A:LYS:H	1:44:A:ASP:HB3	3	0.35
(3,342)	1:113:A:ARG:HB2	1:114:A:ARG:H	1	0.35
(3,342)	1:113:A:ARG:HB2	1:114:A:ARG:H	7	0.35
(3,280)	1:112:A:GLY:H	1:111:A:LYS:HG3	10	0.35
(3,158)	1:76:A:ARG:HG3	1:91:A:LEU:H	10	0.35
(3,148)	1:73:A:PRO:HG2	1:93:A:SER:HB3	3	0.35
(2,593)	1:66:A:LEU:HB3	1:14:A:TRP:HE1	3	0.35
(2,531)	1:69:A:VAL:H	1:71:A:PRO:HD2	2	0.35
(2,419)	1:22:A:LYS:HE2	1:24:A:ILE:HD11	3	0.35
(2,419)	1:22:A:LYS:HE2	1:24:A:ILE:HD12	3	0.35
(2,419)	1:22:A:LYS:HE2	1:24:A:ILE:HD13	3	0.35
(1,3726)	1:95:A:ASN:HD21	1:98:A:THR:HB	5	0.35
(1,3643)	1:13:A:TYR:H	1:63:A:GLN:HE21	4	0.35
(1,3643)	1:13:A:TYR:H	1:63:A:GLN:HE21	8	0.35
(1,3475)	1:19:A:ILE:HD11	1:18:A:GLU:H	5	0.35
(1,3475)	1:19:A:ILE:HD12	1:18:A:GLU:H	5	0.35
(1,3475)	1:19:A:ILE:HD13	1:18:A:GLU:H	5	0.35
(1,3411)	1:3:A:GLU:HG3	1:3:A:GLU:H	3	0.35
(1,3403)	1:10:A:ARG:HD2	1:10:A:ARG:H	1	0.35
(1,3278)	1:28:A:LEU:H	1:28:A:LEU:HD11	7	0.35
(1,3278)	1:28:A:LEU:H	1:28:A:LEU:HD12	7	0.35
(1,3278)	1:28:A:LEU:H	1:28:A:LEU:HD13	7	0.35
(1,3176)	1:51:A:LYS:HB3	1:40:A:LYS:H	3	0.35
(1,3077)	1:49:A:VAL:H	1:43:A:ILE:H	2	0.35
(1,3063)	1:52:A:MET:H	1:32:A:TYR:HE1	10	0.35
(1,3063)	1:52:A:MET:H	1:32:A:TYR:HE2	10	0.35
(1,2969)	1:63:A:GLN:H	1:63:A:GLN:HB2	1	0.35
(1,2969)	1:63:A:GLN:H	1:63:A:GLN:HB2	7	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2969)	1:63:A:GLN:H	1:63:A:GLN:HB2	10	0.35
(1,2906)	1:68:A:THR:H	1:66:A:LEU:HA	8	0.35
(1,2906)	1:68:A:THR:H	1:66:A:LEU:HA	9	0.35
(1,2841)	1:111:A:LYS:HE3	1:112:A:GLY:H	9	0.35
(1,2736)	1:79:A:VAL:HG21	1:87:A:ASN:H	8	0.35
(1,2736)	1:79:A:VAL:HG22	1:87:A:ASN:H	8	0.35
(1,2736)	1:79:A:VAL:HG23	1:87:A:ASN:H	8	0.35
(1,2709)	1:103:A:ILE:HB	1:89:A:GLY:H	7	0.35
(1,2687)	1:91:A:LEU:H	1:91:A:LEU:HB3	6	0.35
(1,2454)	1:113:A:ARG:HD2	1:114:A:ARG:H	5	0.35
(1,2418)	1:118:A:ILE:HG13	1:118:A:ILE:H	9	0.35
(1,2382)	1:120:A:TYR:H	1:119:A:GLN:HB2	2	0.35
(1,2358)	1:122:A:ASP:H	1:121:A:GLU:HB2	5	0.35
(1,2335)	1:68:A:THR:HB	1:125:A:LYS:H	6	0.35
(1,2128)	1:70:A:ILE:HD11	1:121:A:GLU:HA	10	0.35
(1,2128)	1:70:A:ILE:HD12	1:121:A:GLU:HA	10	0.35
(1,2128)	1:70:A:ILE:HD13	1:121:A:GLU:HA	10	0.35
(1,2124)	1:123:A:ILE:HD11	1:101:A:ALA:HA	5	0.35
(1,2124)	1:123:A:ILE:HD12	1:101:A:ALA:HA	5	0.35
(1,2124)	1:123:A:ILE:HD13	1:101:A:ALA:HA	5	0.35
(1,2110)	1:126:A:LEU:HB3	1:77:A:ILE:HG21	6	0.35
(1,2110)	1:126:A:LEU:HB3	1:77:A:ILE:HG22	6	0.35
(1,2110)	1:126:A:LEU:HB3	1:77:A:ILE:HG23	6	0.35
(1,2047)	1:80:A:LEU:HD11	1:124:A:SER:HB2	9	0.35
(1,2047)	1:80:A:LEU:HD12	1:124:A:SER:HB2	9	0.35
(1,2047)	1:80:A:LEU:HD13	1:124:A:SER:HB2	9	0.35
(1,2032)	1:78:A:LEU:H	1:123:A:ILE:HG21	2	0.35
(1,2032)	1:78:A:LEU:H	1:123:A:ILE:HG22	2	0.35
(1,2032)	1:78:A:LEU:H	1:123:A:ILE:HG23	2	0.35
(1,2007)	1:78:A:LEU:H	1:123:A:ILE:HA	8	0.35
(1,1868)	1:104:A:VAL:HG21	1:112:A:GLY:HA3	5	0.35
(1,1868)	1:104:A:VAL:HG22	1:112:A:GLY:HA3	5	0.35
(1,1868)	1:104:A:VAL:HG23	1:112:A:GLY:HA3	5	0.35
(1,1370)	1:122:A:ASP:HA	1:80:A:LEU:HB3	1	0.35
(1,1277)	1:97:A:LYS:HB3	1:98:A:THR:H	4	0.35
(1,1263)	1:76:A:ARG:HG3	1:76:A:ARG:HA	5	0.35
(1,1258)	1:75:A:LYS:HD2	1:75:A:LYS:HA	8	0.35
(1,1062)	1:65:A:HIS:HB3	1:61:A:LEU:HB2	6	0.35
(1,971)	1:65:A:HIS:HB3	1:61:A:LEU:HB2	2	0.35
(1,959)	1:60:A:LYS:HD2	1:61:A:LEU:H	7	0.35
(1,951)	1:60:A:LYS:HA	1:50:A:VAL:H	4	0.35
(1,869)	1:94:A:ILE:HD11	1:120:A:TYR:HE1	6	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,869)	1:94:A:ILE:HD11	1:120:A:TYR:HE2	6	0.35
(1,869)	1:94:A:ILE:HD12	1:120:A:TYR:HE1	6	0.35
(1,869)	1:94:A:ILE:HD12	1:120:A:TYR:HE2	6	0.35
(1,869)	1:94:A:ILE:HD13	1:120:A:TYR:HE1	6	0.35
(1,869)	1:94:A:ILE:HD13	1:120:A:TYR:HE2	6	0.35
(1,849)	1:37:A:ALA:HA	1:53:A:ILE:HB	9	0.35
(1,619)	1:42:A:VAL:HG11	1:41:A:GLU:HA	3	0.35
(1,619)	1:42:A:VAL:HG12	1:41:A:GLU:HA	3	0.35
(1,619)	1:42:A:VAL:HG13	1:41:A:GLU:HA	3	0.35
(1,571)	1:39:A:VAL:HG11	1:50:A:VAL:HA	7	0.35
(1,571)	1:39:A:VAL:HG12	1:50:A:VAL:HA	7	0.35
(1,571)	1:39:A:VAL:HG13	1:50:A:VAL:HA	7	0.35
(1,558)	1:48:A:ALA:HB1	1:39:A:VAL:HB	6	0.35
(1,558)	1:48:A:ALA:HB2	1:39:A:VAL:HB	6	0.35
(1,558)	1:48:A:ALA:HB3	1:39:A:VAL:HB	6	0.35
(1,440)	1:111:A:LYS:HD2	1:107:A:THR:HA	1	0.35
(1,390)	1:24:A:ILE:HD11	1:67:A:GLU:HB3	2	0.35
(1,390)	1:24:A:ILE:HD12	1:67:A:GLU:HB3	2	0.35
(1,390)	1:24:A:ILE:HD13	1:67:A:GLU:HB3	2	0.35
(1,169)	1:80:A:LEU:HD21	1:16:A:GLN:HG3	10	0.35
(1,169)	1:80:A:LEU:HD22	1:16:A:GLN:HG3	10	0.35
(1,169)	1:80:A:LEU:HD23	1:16:A:GLN:HG3	10	0.35
(1,138)	1:15:A:LEU:H	1:15:A:LEU:HD11	6	0.35
(1,138)	1:15:A:LEU:H	1:15:A:LEU:HD12	6	0.35
(1,138)	1:15:A:LEU:H	1:15:A:LEU:HD13	6	0.35
(1,138)	1:15:A:LEU:H	1:15:A:LEU:HD11	9	0.35
(1,138)	1:15:A:LEU:H	1:15:A:LEU:HD12	9	0.35
(1,138)	1:15:A:LEU:H	1:15:A:LEU:HD13	9	0.35
(3,1164)	1:26:A:LYS:HG3	1:29:A:GLY:H	8	0.34
(3,1157)	1:80:A:LEU:HD11	1:14:A:TRP:HZ3	4	0.34
(3,1030)	1:36:A:LYS:H	1:37:A:ALA:H	3	0.34
(3,1025)	1:102:A:THR:H	1:103:A:ILE:H	6	0.34
(3,973)	1:20:A:ILE:HG22	1:21:A:VAL:H	2	0.34
(3,849)	1:35:A:LYS:HD2	1:33:A:HIS:H	4	0.34
(3,849)	1:35:A:LYS:HD2	1:33:A:HIS:H	9	0.34
(3,758)	1:45:A:LYS:HB2	1:45:A:LYS:HD2	7	0.34
(3,732)	1:48:A:ALA:HB2	1:43:A:ILE:H	4	0.34
(3,732)	1:43:A:ILE:H	1:43:A:ILE:HG12	7	0.34
(3,640)	1:120:A:TYR:HA	1:120:A:TYR:H	2	0.34
(3,537)	1:85:A:ARG:HD2	1:82:A:GLY:H	3	0.34
(3,371)	1:20:A:ILE:HB	1:21:A:VAL:H	4	0.34
(3,296)	1:91:A:LEU:HD22	1:91:A:LEU:HG	7	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,293)	1:27:A:LYS:HG3	1:27:A:LYS:HA	5	0.34
(3,211)	1:118:A:ILE:H	1:116:A:GLU:HB3	10	0.34
(3,165)	1:79:A:VAL:HG11	1:88:A:GLU:HA	9	0.34
(3,43)	1:77:A:ILE:H	1:77:A:ILE:HG22	6	0.34
(3,23)	1:127:A:ALA:HB3	1:18:A:GLU:H	9	0.34
(3,4)	1:102:A:THR:HG22	1:116:A:GLU:H	8	0.34
(2,419)	1:22:A:LYS:HE2	1:24:A:ILE:HD11	5	0.34
(2,419)	1:22:A:LYS:HE2	1:24:A:ILE:HD12	5	0.34
(2,419)	1:22:A:LYS:HE2	1:24:A:ILE:HD13	5	0.34
(2,338)	1:126:A:LEU:HB3	1:77:A:ILE:HG12	9	0.34
(1,3737)	1:5:A:LYS:H	1:3:A:GLU:H	6	0.34
(1,3643)	1:13:A:TYR:H	1:63:A:GLN:HE21	7	0.34
(1,3631)	1:23:A:ILE:H	1:32:A:TYR:HB3	10	0.34
(1,3575)	1:87:A:ASN:H	1:87:A:ASN:HD22	9	0.34
(1,3545)	1:66:A:LEU:H	1:63:A:GLN:HG2	8	0.34
(1,3475)	1:19:A:ILE:HD11	1:18:A:GLU:H	6	0.34
(1,3475)	1:19:A:ILE:HD12	1:18:A:GLU:H	6	0.34
(1,3475)	1:19:A:ILE:HD13	1:18:A:GLU:H	6	0.34
(1,3449)	1:15:A:LEU:H	1:14:A:TRP:HE1	10	0.34
(1,3414)	1:4:A:GLU:H	1:3:A:GLU:H	6	0.34
(1,3278)	1:28:A:LEU:H	1:28:A:LEU:HD11	5	0.34
(1,3278)	1:28:A:LEU:H	1:28:A:LEU:HD12	5	0.34
(1,3278)	1:28:A:LEU:H	1:28:A:LEU:HD13	5	0.34
(1,3208)	1:36:A:LYS:HG2	1:36:A:LYS:H	9	0.34
(1,3146)	1:42:A:VAL:HG21	1:43:A:ILE:H	7	0.34
(1,3146)	1:42:A:VAL:HG22	1:43:A:ILE:H	7	0.34
(1,3146)	1:42:A:VAL:HG23	1:43:A:ILE:H	7	0.34
(1,3018)	1:52:A:MET:HG2	1:57:A:ASP:H	1	0.34
(1,2969)	1:63:A:GLN:H	1:63:A:GLN:HB2	2	0.34
(1,2969)	1:63:A:GLN:H	1:63:A:GLN:HB2	3	0.34
(1,2969)	1:63:A:GLN:H	1:63:A:GLN:HB2	4	0.34
(1,2969)	1:63:A:GLN:H	1:63:A:GLN:HB2	5	0.34
(1,2969)	1:63:A:GLN:H	1:63:A:GLN:HB2	6	0.34
(1,2969)	1:63:A:GLN:H	1:63:A:GLN:HB2	8	0.34
(1,2969)	1:63:A:GLN:H	1:63:A:GLN:HB2	9	0.34
(1,2906)	1:68:A:THR:H	1:66:A:LEU:HA	5	0.34
(1,2592)	1:97:A:LYS:HB3	1:100:A:SER:H	3	0.34
(1,2517)	1:88:A:GLU:HB2	1:106:A:GLU:H	1	0.34
(1,2473)	1:105:A:ILE:HD11	1:111:A:LYS:H	3	0.34
(1,2473)	1:105:A:ILE:HD12	1:111:A:LYS:H	3	0.34
(1,2473)	1:105:A:ILE:HD13	1:111:A:LYS:H	3	0.34
(1,2468)	1:113:A:ARG:H	1:105:A:ILE:HG21	8	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2468)	1:113:A:ARG:H	1:105:A:ILE:HG22	8	0.34
(1,2468)	1:113:A:ARG:H	1:105:A:ILE:HG23	8	0.34
(1,2358)	1:122:A:ASP:H	1:121:A:GLU:HB2	7	0.34
(1,2358)	1:122:A:ASP:H	1:121:A:GLU:HB2	10	0.34
(1,2304)	1:104:A:VAL:HG21	1:114:A:ARG:HB3	10	0.34
(1,2304)	1:104:A:VAL:HG22	1:114:A:ARG:HB3	10	0.34
(1,2304)	1:104:A:VAL:HG23	1:114:A:ARG:HB3	10	0.34
(1,2238)	1:76:A:ARG:HD2	1:90:A:THR:HA	7	0.34
(1,2221)	1:91:A:LEU:HD21	1:101:A:ALA:HA	1	0.34
(1,2221)	1:91:A:LEU:HD22	1:101:A:ALA:HA	1	0.34
(1,2221)	1:91:A:LEU:HD23	1:101:A:ALA:HA	1	0.34
(1,2211)	1:84:A:TYR:HE1	1:103:A:ILE:HD11	1	0.34
(1,2211)	1:84:A:TYR:HE1	1:103:A:ILE:HD12	1	0.34
(1,2211)	1:84:A:TYR:HE1	1:103:A:ILE:HD13	1	0.34
(1,2211)	1:84:A:TYR:HE2	1:103:A:ILE:HD11	1	0.34
(1,2211)	1:84:A:TYR:HE2	1:103:A:ILE:HD12	1	0.34
(1,2211)	1:84:A:TYR:HE2	1:103:A:ILE:HD13	1	0.34
(1,1950)	1:118:A:ILE:HA	1:101:A:ALA:H	7	0.34
(1,1765)	1:105:A:ILE:HG21	1:87:A:ASN:HB2	8	0.34
(1,1765)	1:105:A:ILE:HG22	1:87:A:ASN:HB2	8	0.34
(1,1765)	1:105:A:ILE:HG23	1:87:A:ASN:HB2	8	0.34
(1,1762)	1:105:A:ILE:HG21	1:106:A:GLU:HA	7	0.34
(1,1762)	1:105:A:ILE:HG22	1:106:A:GLU:HA	7	0.34
(1,1762)	1:105:A:ILE:HG23	1:106:A:GLU:HA	7	0.34
(1,1537)	1:97:A:LYS:HB3	1:98:A:THR:H	4	0.34
(1,1537)	1:97:A:LYS:HB3	1:98:A:THR:H	8	0.34
(1,1263)	1:76:A:ARG:HG3	1:76:A:ARG:HA	3	0.34
(1,1262)	1:75:A:LYS:HD2	1:75:A:LYS:HA	5	0.34
(1,1258)	1:75:A:LYS:HD2	1:75:A:LYS:HA	7	0.34
(1,1256)	1:90:A:THR:HG21	1:74:A:GLY:HA3	6	0.34
(1,1256)	1:90:A:THR:HG22	1:74:A:GLY:HA3	6	0.34
(1,1256)	1:90:A:THR:HG23	1:74:A:GLY:HA3	6	0.34
(1,1220)	1:73:A:PRO:HA	1:91:A:LEU:HB2	8	0.34
(1,1216)	1:75:A:LYS:HG2	1:72:A:ALA:HB1	6	0.34
(1,1216)	1:75:A:LYS:HG2	1:72:A:ALA:HB2	6	0.34
(1,1216)	1:75:A:LYS:HG2	1:72:A:ALA:HB3	6	0.34
(1,1176)	1:70:A:ILE:H	1:70:A:ILE:HG13	3	0.34
(1,1176)	1:70:A:ILE:H	1:70:A:ILE:HG13	7	0.34
(1,1176)	1:70:A:ILE:H	1:70:A:ILE:HG13	9	0.34
(1,869)	1:94:A:ILE:HD11	1:120:A:TYR:HE1	9	0.34
(1,869)	1:94:A:ILE:HD11	1:120:A:TYR:HE2	9	0.34
(1,869)	1:94:A:ILE:HD12	1:120:A:TYR:HE1	9	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,869)	1:94:A:ILE:HD12	1:120:A:TYR:HE2	9	0.34
(1,869)	1:94:A:ILE:HD13	1:120:A:TYR:HE1	9	0.34
(1,869)	1:94:A:ILE:HD13	1:120:A:TYR:HE2	9	0.34
(1,851)	1:118:A:ILE:HG12	1:118:A:ILE:HB	6	0.34
(1,804)	1:50:A:VAL:HG21	1:59:A:LEU:HD21	5	0.34
(1,804)	1:50:A:VAL:HG21	1:59:A:LEU:HD22	5	0.34
(1,804)	1:50:A:VAL:HG21	1:59:A:LEU:HD23	5	0.34
(1,804)	1:50:A:VAL:HG22	1:59:A:LEU:HD21	5	0.34
(1,804)	1:50:A:VAL:HG22	1:59:A:LEU:HD22	5	0.34
(1,804)	1:50:A:VAL:HG22	1:59:A:LEU:HD23	5	0.34
(1,804)	1:50:A:VAL:HG23	1:59:A:LEU:HD21	5	0.34
(1,804)	1:50:A:VAL:HG23	1:59:A:LEU:HD22	5	0.34
(1,804)	1:50:A:VAL:HG23	1:59:A:LEU:HD23	5	0.34
(1,619)	1:42:A:VAL:HG11	1:41:A:GLU:HA	10	0.34
(1,619)	1:42:A:VAL:HG12	1:41:A:GLU:HA	10	0.34
(1,619)	1:42:A:VAL:HG13	1:41:A:GLU:HA	10	0.34
(1,578)	1:42:A:VAL:HG11	1:39:A:VAL:HG21	2	0.34
(1,578)	1:42:A:VAL:HG11	1:39:A:VAL:HG22	2	0.34
(1,578)	1:42:A:VAL:HG11	1:39:A:VAL:HG23	2	0.34
(1,578)	1:42:A:VAL:HG12	1:39:A:VAL:HG21	2	0.34
(1,578)	1:42:A:VAL:HG12	1:39:A:VAL:HG22	2	0.34
(1,578)	1:42:A:VAL:HG12	1:39:A:VAL:HG23	2	0.34
(1,578)	1:42:A:VAL:HG13	1:39:A:VAL:HG21	2	0.34
(1,578)	1:42:A:VAL:HG13	1:39:A:VAL:HG22	2	0.34
(1,578)	1:42:A:VAL:HG13	1:39:A:VAL:HG23	2	0.34
(1,563)	1:39:A:VAL:HG21	1:19:A:ILE:H	4	0.34
(1,563)	1:39:A:VAL:HG22	1:19:A:ILE:H	4	0.34
(1,563)	1:39:A:VAL:HG23	1:19:A:ILE:H	4	0.34
(1,453)	1:32:A:TYR:HD1	1:28:A:LEU:HD11	7	0.34
(1,453)	1:32:A:TYR:HD1	1:28:A:LEU:HD12	7	0.34
(1,453)	1:32:A:TYR:HD1	1:28:A:LEU:HD13	7	0.34
(1,453)	1:32:A:TYR:HD2	1:28:A:LEU:HD11	7	0.34
(1,453)	1:32:A:TYR:HD2	1:28:A:LEU:HD12	7	0.34
(1,453)	1:32:A:TYR:HD2	1:28:A:LEU:HD13	7	0.34
(1,387)	1:65:A:HIS:HA	1:24:A:ILE:HD11	8	0.34
(1,387)	1:65:A:HIS:HA	1:24:A:ILE:HD12	8	0.34
(1,387)	1:65:A:HIS:HA	1:24:A:ILE:HD13	8	0.34
(1,375)	1:23:A:ILE:HG21	1:66:A:LEU:HA	5	0.34
(1,375)	1:23:A:ILE:HG22	1:66:A:LEU:HA	5	0.34
(1,375)	1:23:A:ILE:HG23	1:66:A:LEU:HA	5	0.34
(1,311)	1:21:A:VAL:HG21	1:21:A:VAL:HA	1	0.34
(1,311)	1:21:A:VAL:HG22	1:21:A:VAL:HA	1	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,311)	1:21:A:VAL:HG23	1:21:A:VAL:HA	1	0.34
(1,311)	1:21:A:VAL:HG21	1:21:A:VAL:HA	3	0.34
(1,311)	1:21:A:VAL:HG22	1:21:A:VAL:HA	3	0.34
(1,311)	1:21:A:VAL:HG23	1:21:A:VAL:HA	3	0.34
(1,311)	1:21:A:VAL:HG21	1:21:A:VAL:HA	4	0.34
(1,311)	1:21:A:VAL:HG22	1:21:A:VAL:HA	4	0.34
(1,311)	1:21:A:VAL:HG23	1:21:A:VAL:HA	4	0.34
(1,311)	1:21:A:VAL:HG21	1:21:A:VAL:HA	6	0.34
(1,311)	1:21:A:VAL:HG22	1:21:A:VAL:HA	6	0.34
(1,311)	1:21:A:VAL:HG23	1:21:A:VAL:HA	6	0.34
(1,311)	1:21:A:VAL:HG21	1:21:A:VAL:HA	7	0.34
(1,311)	1:21:A:VAL:HG22	1:21:A:VAL:HA	7	0.34
(1,311)	1:21:A:VAL:HG23	1:21:A:VAL:HA	7	0.34
(1,311)	1:21:A:VAL:HG21	1:21:A:VAL:HA	8	0.34
(1,311)	1:21:A:VAL:HG22	1:21:A:VAL:HA	8	0.34
(1,311)	1:21:A:VAL:HG23	1:21:A:VAL:HA	8	0.34
(1,311)	1:21:A:VAL:HG21	1:21:A:VAL:HA	9	0.34
(1,311)	1:21:A:VAL:HG22	1:21:A:VAL:HA	9	0.34
(1,311)	1:21:A:VAL:HG23	1:21:A:VAL:HA	9	0.34
(1,311)	1:21:A:VAL:HG21	1:21:A:VAL:HA	10	0.34
(1,311)	1:21:A:VAL:HG22	1:21:A:VAL:HA	10	0.34
(1,311)	1:21:A:VAL:HG23	1:21:A:VAL:HA	10	0.34
(1,201)	1:73:A:PRO:HG2	1:91:A:LEU:HD11	9	0.34
(1,201)	1:73:A:PRO:HG2	1:91:A:LEU:HD12	9	0.34
(1,201)	1:73:A:PRO:HG2	1:91:A:LEU:HD13	9	0.34
(1,178)	1:17:A:PRO:HA	1:39:A:VAL:HG21	4	0.34
(1,178)	1:17:A:PRO:HA	1:39:A:VAL:HG22	4	0.34
(1,178)	1:17:A:PRO:HA	1:39:A:VAL:HG23	4	0.34
(1,178)	1:17:A:PRO:HA	1:39:A:VAL:HG21	9	0.34
(1,178)	1:17:A:PRO:HA	1:39:A:VAL:HG22	9	0.34
(1,178)	1:17:A:PRO:HA	1:39:A:VAL:HG23	9	0.34
(1,143)	1:15:A:LEU:HD11	1:63:A:GLN:HB2	2	0.34
(1,143)	1:15:A:LEU:HD12	1:63:A:GLN:HB2	2	0.34
(1,143)	1:15:A:LEU:HD13	1:63:A:GLN:HB2	2	0.34
(1,25)	1:7:A:ARG:HA	1:7:A:ARG:HG2	5	0.34
(3,1142)	1:109:A:PRO:HB2	1:109:A:PRO:HD3	6	0.33
(3,1087)	1:61:A:LEU:HD11	1:59:A:LEU:HB3	4	0.33
(3,1087)	1:61:A:LEU:HD12	1:59:A:LEU:HB3	4	0.33
(3,1087)	1:61:A:LEU:HD13	1:59:A:LEU:HB3	4	0.33
(3,1025)	1:102:A:THR:H	1:103:A:ILE:H	5	0.33
(3,1025)	1:102:A:THR:H	1:103:A:ILE:H	7	0.33
(3,1025)	1:102:A:THR:H	1:103:A:ILE:H	8	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,995)	1:102:A:THR:HG21	1:116:A:GLU:H	3	0.33
(3,928)	1:120:A:TYR:HA	1:123:A:ILE:HG22	4	0.33
(3,863)	1:113:A:ARG:HD3	1:103:A:ILE:HD11	1	0.33
(3,855)	1:17:A:PRO:HD3	1:16:A:GLN:HB2	1	0.33
(3,843)	1:40:A:LYS:HA	1:40:A:LYS:HB2	1	0.33
(3,843)	1:40:A:LYS:HA	1:40:A:LYS:HB2	2	0.33
(3,843)	1:40:A:LYS:HA	1:40:A:LYS:HB2	3	0.33
(3,843)	1:40:A:LYS:HA	1:40:A:LYS:HB2	4	0.33
(3,843)	1:75:A:LYS:HB2	1:75:A:LYS:HA	5	0.33
(3,843)	1:40:A:LYS:HA	1:40:A:LYS:HB2	6	0.33
(3,843)	1:75:A:LYS:HB2	1:75:A:LYS:HA	7	0.33
(3,843)	1:75:A:LYS:HB2	1:75:A:LYS:HA	8	0.33
(3,843)	1:40:A:LYS:HA	1:40:A:LYS:HB2	9	0.33
(3,841)	1:80:A:LEU:H	1:123:A:ILE:HG22	3	0.33
(3,758)	1:45:A:LYS:HB2	1:45:A:LYS:HD2	5	0.33
(3,722)	1:45:A:LYS:H	1:44:A:ASP:HB2	3	0.33
(3,640)	1:120:A:TYR:HA	1:120:A:TYR:H	1	0.33
(3,640)	1:120:A:TYR:HA	1:120:A:TYR:H	5	0.33
(3,640)	1:120:A:TYR:HA	1:120:A:TYR:H	10	0.33
(3,634)	1:103:A:ILE:HG12	1:104:A:VAL:H	9	0.33
(3,595)	1:105:A:ILE:HB	1:106:A:GLU:H	7	0.33
(3,533)	1:80:A:LEU:HD12	1:124:A:SER:HB3	3	0.33
(3,489)	1:82:A:GLY:HA3	1:81:A:ASN:HB3	7	0.33
(3,426)	1:119:A:GLN:HA	1:100:A:SER:H	8	0.33
(3,342)	1:113:A:ARG:HB2	1:114:A:ARG:H	8	0.33
(3,342)	1:113:A:ARG:HB2	1:114:A:ARG:H	9	0.33
(3,264)	1:77:A:ILE:H	1:91:A:LEU:H	3	0.33
(3,153)	1:91:A:LEU:HD11	1:102:A:THR:H	1	0.33
(3,69)	1:66:A:LEU:HD11	1:21:A:VAL:HB	10	0.33
(2,593)	1:66:A:LEU:HB3	1:14:A:TRP:HE1	2	0.33
(2,591)	1:11:A:THR:H	1:13:A:TYR:HD1	4	0.33
(2,591)	1:11:A:THR:H	1:13:A:TYR:HD2	4	0.33
(2,589)	1:82:A:GLY:HA3	1:11:A:THR:H	1	0.33
(2,531)	1:69:A:VAL:H	1:71:A:PRO:HD2	6	0.33
(2,393)	1:73:A:PRO:HG2	1:70:A:ILE:HG21	2	0.33
(2,393)	1:73:A:PRO:HG2	1:70:A:ILE:HG22	2	0.33
(2,393)	1:73:A:PRO:HG2	1:70:A:ILE:HG23	2	0.33
(1,3750)	1:14:A:TRP:HZ2	1:63:A:GLN:HB3	3	0.33
(1,3718)	1:87:A:ASN:HD21	1:79:A:VAL:HB	1	0.33
(1,3712)	1:87:A:ASN:HD21	1:84:A:TYR:H	10	0.33
(1,3575)	1:87:A:ASN:H	1:87:A:ASN:HD22	10	0.33
(1,3511)	1:43:A:ILE:H	1:41:A:GLU:HG3	8	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3475)	1:19:A:ILE:HD11	1:18:A:GLU:H	10	0.33
(1,3475)	1:19:A:ILE:HD12	1:18:A:GLU:H	10	0.33
(1,3475)	1:19:A:ILE:HD13	1:18:A:GLU:H	10	0.33
(1,3453)	1:14:A:TRP:HA	1:16:A:GLN:HE22	8	0.33
(1,3414)	1:4:A:GLU:H	1:3:A:GLU:H	3	0.33
(1,3402)	1:9:A:ALA:HA	1:10:A:ARG:H	5	0.33
(1,3363)	1:15:A:LEU:H	1:15:A:LEU:HD11	7	0.33
(1,3363)	1:15:A:LEU:H	1:15:A:LEU:HD12	7	0.33
(1,3363)	1:15:A:LEU:H	1:15:A:LEU:HD13	7	0.33
(1,3322)	1:22:A:LYS:H	1:67:A:GLU:HB2	2	0.33
(1,3322)	1:22:A:LYS:H	1:67:A:GLU:HB2	6	0.33
(1,3278)	1:28:A:LEU:H	1:28:A:LEU:HD11	8	0.33
(1,3278)	1:28:A:LEU:H	1:28:A:LEU:HD12	8	0.33
(1,3278)	1:28:A:LEU:H	1:28:A:LEU:HD13	8	0.33
(1,3163)	1:49:A:VAL:HG21	1:41:A:GLU:H	10	0.33
(1,3163)	1:49:A:VAL:HG22	1:41:A:GLU:H	10	0.33
(1,3163)	1:49:A:VAL:HG23	1:41:A:GLU:H	10	0.33
(1,3128)	1:47:A:THR:HB	1:44:A:ASP:H	5	0.33
(1,3077)	1:49:A:VAL:H	1:43:A:ILE:H	5	0.33
(1,3063)	1:52:A:MET:H	1:32:A:TYR:HE1	9	0.33
(1,3063)	1:52:A:MET:H	1:32:A:TYR:HE2	9	0.33
(1,3040)	1:54:A:ASP:H	1:53:A:ILE:HG21	3	0.33
(1,3040)	1:54:A:ASP:H	1:53:A:ILE:HG22	3	0.33
(1,3040)	1:54:A:ASP:H	1:53:A:ILE:HG23	3	0.33
(1,2848)	1:76:A:ARG:H	1:76:A:ARG:HD2	7	0.33
(1,2788)	1:81:A:ASN:H	1:84:A:TYR:H	1	0.33
(1,2736)	1:79:A:VAL:HG21	1:87:A:ASN:H	10	0.33
(1,2736)	1:79:A:VAL:HG22	1:87:A:ASN:H	10	0.33
(1,2736)	1:79:A:VAL:HG23	1:87:A:ASN:H	10	0.33
(1,2608)	1:97:A:LYS:HB3	1:98:A:THR:H	6	0.33
(1,2584)	1:100:A:SER:H	1:119:A:GLN:HE22	8	0.33
(1,2477)	1:110:A:LEU:HB3	1:111:A:LYS:H	6	0.33
(1,2473)	1:105:A:ILE:HD11	1:111:A:LYS:H	2	0.33
(1,2473)	1:105:A:ILE:HD12	1:111:A:LYS:H	2	0.33
(1,2473)	1:105:A:ILE:HD13	1:111:A:LYS:H	2	0.33
(1,2442)	1:103:A:ILE:H	1:116:A:GLU:H	4	0.33
(1,2436)	1:115:A:VAL:HB	1:116:A:GLU:H	4	0.33
(1,2418)	1:118:A:ILE:HG13	1:118:A:ILE:H	8	0.33
(1,2316)	1:127:A:ALA:H	1:19:A:ILE:HB	9	0.33
(1,2294)	1:19:A:ILE:HD11	1:16:A:GLN:HB2	6	0.33
(1,2294)	1:19:A:ILE:HD12	1:16:A:GLN:HB2	6	0.33
(1,2294)	1:19:A:ILE:HD13	1:16:A:GLN:HB2	6	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2205)	1:49:A:VAL:HG21	1:41:A:GLU:H	5	0.33
(1,2205)	1:49:A:VAL:HG22	1:41:A:GLU:H	5	0.33
(1,2205)	1:49:A:VAL:HG23	1:41:A:GLU:H	5	0.33
(1,2161)	1:115:A:VAL:HG21	1:118:A:ILE:HG13	2	0.33
(1,2161)	1:115:A:VAL:HG22	1:118:A:ILE:HG13	2	0.33
(1,2161)	1:115:A:VAL:HG23	1:118:A:ILE:HG13	2	0.33
(1,1882)	1:113:A:ARG:HA	1:113:A:ARG:HD2	2	0.33
(1,1762)	1:105:A:ILE:HG21	1:106:A:GLU:HA	2	0.33
(1,1762)	1:105:A:ILE:HG22	1:106:A:GLU:HA	2	0.33
(1,1762)	1:105:A:ILE:HG23	1:106:A:GLU:HA	2	0.33
(1,1682)	1:47:A:THR:HG21	1:43:A:ILE:HB	1	0.33
(1,1682)	1:47:A:THR:HG22	1:43:A:ILE:HB	1	0.33
(1,1682)	1:47:A:THR:HG23	1:43:A:ILE:HB	1	0.33
(1,1535)	1:93:A:SER:HA	1:91:A:LEU:HG	4	0.33
(1,1535)	1:93:A:SER:HA	1:91:A:LEU:HG	5	0.33
(1,1214)	1:73:A:PRO:HD3	1:72:A:ALA:HB1	3	0.33
(1,1214)	1:73:A:PRO:HD3	1:72:A:ALA:HB2	3	0.33
(1,1214)	1:73:A:PRO:HD3	1:72:A:ALA:HB3	3	0.33
(1,1209)	1:73:A:PRO:HD2	1:72:A:ALA:HA	3	0.33
(1,1176)	1:70:A:ILE:H	1:70:A:ILE:HG13	6	0.33
(1,1070)	1:22:A:LYS:H	1:66:A:LEU:HA	10	0.33
(1,1062)	1:65:A:HIS:HB3	1:61:A:LEU:HB2	5	0.33
(1,965)	1:22:A:LYS:HE2	1:22:A:LYS:HG2	8	0.33
(1,918)	1:60:A:LYS:HB2	1:59:A:LEU:HA	3	0.33
(1,869)	1:94:A:ILE:HD11	1:120:A:TYR:HE1	3	0.33
(1,869)	1:94:A:ILE:HD11	1:120:A:TYR:HE2	3	0.33
(1,869)	1:94:A:ILE:HD12	1:120:A:TYR:HE1	3	0.33
(1,869)	1:94:A:ILE:HD12	1:120:A:TYR:HE2	3	0.33
(1,869)	1:94:A:ILE:HD13	1:120:A:TYR:HE1	3	0.33
(1,869)	1:94:A:ILE:HD13	1:120:A:TYR:HE2	3	0.33
(1,859)	1:37:A:ALA:HA	1:53:A:ILE:HD11	10	0.33
(1,859)	1:37:A:ALA:HA	1:53:A:ILE:HD12	10	0.33
(1,859)	1:37:A:ALA:HA	1:53:A:ILE:HD13	10	0.33
(1,856)	1:38:A:ILE:H	1:53:A:ILE:HD11	1	0.33
(1,856)	1:38:A:ILE:H	1:53:A:ILE:HD12	1	0.33
(1,856)	1:38:A:ILE:H	1:53:A:ILE:HD13	1	0.33
(1,849)	1:37:A:ALA:HA	1:53:A:ILE:HB	8	0.33
(1,686)	1:41:A:GLU:HG3	1:43:A:ILE:HD11	7	0.33
(1,686)	1:41:A:GLU:HG3	1:43:A:ILE:HD12	7	0.33
(1,686)	1:41:A:GLU:HG3	1:43:A:ILE:HD13	7	0.33
(1,619)	1:42:A:VAL:HG11	1:41:A:GLU:HA	7	0.33
(1,619)	1:42:A:VAL:HG12	1:41:A:GLU:HA	7	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,619)	1:42:A:VAL:HG13	1:41:A:GLU:HA	7	0.33
(1,571)	1:39:A:VAL:HG11	1:50:A:VAL:HA	8	0.33
(1,571)	1:39:A:VAL:HG12	1:50:A:VAL:HA	8	0.33
(1,571)	1:39:A:VAL:HG13	1:50:A:VAL:HA	8	0.33
(1,565)	1:17:A:PRO:HA	1:39:A:VAL:HG21	2	0.33
(1,565)	1:17:A:PRO:HA	1:39:A:VAL:HG22	2	0.33
(1,565)	1:17:A:PRO:HA	1:39:A:VAL:HG23	2	0.33
(1,558)	1:48:A:ALA:HB1	1:39:A:VAL:HB	1	0.33
(1,558)	1:48:A:ALA:HB2	1:39:A:VAL:HB	1	0.33
(1,558)	1:48:A:ALA:HB3	1:39:A:VAL:HB	1	0.33
(1,531)	1:53:A:ILE:H	1:37:A:ALA:HB1	5	0.33
(1,531)	1:53:A:ILE:H	1:37:A:ALA:HB2	5	0.33
(1,531)	1:53:A:ILE:H	1:37:A:ALA:HB3	5	0.33
(1,387)	1:65:A:HIS:HA	1:24:A:ILE:HD11	1	0.33
(1,387)	1:65:A:HIS:HA	1:24:A:ILE:HD12	1	0.33
(1,387)	1:65:A:HIS:HA	1:24:A:ILE:HD13	1	0.33
(1,387)	1:65:A:HIS:HA	1:24:A:ILE:HD11	5	0.33
(1,387)	1:65:A:HIS:HA	1:24:A:ILE:HD12	5	0.33
(1,387)	1:65:A:HIS:HA	1:24:A:ILE:HD13	5	0.33
(1,353)	1:35:A:LYS:H	1:23:A:ILE:HD11	1	0.33
(1,353)	1:35:A:LYS:H	1:23:A:ILE:HD12	1	0.33
(1,353)	1:35:A:LYS:H	1:23:A:ILE:HD13	1	0.33
(1,311)	1:21:A:VAL:HG21	1:21:A:VAL:HA	2	0.33
(1,311)	1:21:A:VAL:HG22	1:21:A:VAL:HA	2	0.33
(1,311)	1:21:A:VAL:HG23	1:21:A:VAL:HA	2	0.33
(1,311)	1:21:A:VAL:HG21	1:21:A:VAL:HA	5	0.33
(1,311)	1:21:A:VAL:HG22	1:21:A:VAL:HA	5	0.33
(1,311)	1:21:A:VAL:HG23	1:21:A:VAL:HA	5	0.33
(1,309)	1:21:A:VAL:HG21	1:14:A:TRP:HH2	4	0.33
(1,309)	1:21:A:VAL:HG22	1:14:A:TRP:HH2	4	0.33
(1,309)	1:21:A:VAL:HG23	1:14:A:TRP:HH2	4	0.33
(1,169)	1:80:A:LEU:HD21	1:16:A:GLN:HG3	8	0.33
(1,169)	1:80:A:LEU:HD22	1:16:A:GLN:HG3	8	0.33
(1,169)	1:80:A:LEU:HD23	1:16:A:GLN:HG3	8	0.33
(1,35)	1:113:A:ARG:HG3	1:114:A:ARG:H	5	0.33
(3,1210)	1:104:A:VAL:HG12	1:104:A:VAL:HG23	10	0.32
(3,1142)	1:109:A:PRO:HB2	1:109:A:PRO:HD3	1	0.32
(3,1142)	1:109:A:PRO:HB2	1:109:A:PRO:HD3	3	0.32
(3,1142)	1:109:A:PRO:HB2	1:109:A:PRO:HD3	4	0.32
(3,1135)	1:79:A:VAL:H	1:123:A:ILE:HG21	6	0.32
(3,1135)	1:79:A:VAL:H	1:123:A:ILE:HG23	8	0.32
(3,1030)	1:53:A:ILE:H	1:37:A:ALA:H	7	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1030)	1:36:A:LYS:H	1:37:A:ALA:H	8	0.32
(3,841)	1:80:A:LEU:H	1:123:A:ILE:HG22	8	0.32
(3,799)	1:48:A:ALA:H	1:60:A:LYS:HD3	6	0.32
(3,767)	1:77:A:ILE:H	1:77:A:ILE:HD13	5	0.32
(3,680)	1:23:A:ILE:H	1:24:A:ILE:HD11	4	0.32
(3,640)	1:120:A:TYR:HA	1:120:A:TYR:H	4	0.32
(3,640)	1:120:A:TYR:HA	1:120:A:TYR:H	8	0.32
(3,595)	1:105:A:ILE:HB	1:106:A:GLU:H	1	0.32
(3,568)	1:19:A:ILE:HG21	1:78:A:LEU:HD11	2	0.32
(3,423)	1:61:A:LEU:HD12	1:25:A:THR:H	8	0.32
(3,348)	1:7:A:ARG:HD2	1:7:A:ARG:H	10	0.32
(3,342)	1:113:A:ARG:HB2	1:114:A:ARG:H	4	0.32
(3,342)	1:113:A:ARG:HB2	1:114:A:ARG:H	6	0.32
(3,342)	1:113:A:ARG:HB2	1:114:A:ARG:H	10	0.32
(3,304)	1:94:A:ILE:HB	1:70:A:ILE:HG21	3	0.32
(3,257)	1:53:A:ILE:H	1:53:A:ILE:HD11	5	0.32
(3,125)	1:13:A:TYR:HD2	1:45:A:LYS:HE3	2	0.32
(2,593)	1:66:A:LEU:HB3	1:14:A:TRP:HE1	10	0.32
(2,362)	1:84:A:TYR:HB3	1:103:A:ILE:HG13	7	0.32
(2,357)	1:113:A:ARG:HA	1:115:A:VAL:HG11	8	0.32
(2,357)	1:113:A:ARG:HA	1:115:A:VAL:HG12	8	0.32
(2,357)	1:113:A:ARG:HA	1:115:A:VAL:HG13	8	0.32
(1,3855)	1:120:A:TYR:H	1:120:A:TYR:HE1	8	0.32
(1,3855)	1:120:A:TYR:H	1:120:A:TYR:HE2	8	0.32
(1,3780)	1:63:A:GLN:HB2	1:46:A:TYR:HD1	1	0.32
(1,3780)	1:63:A:GLN:HB2	1:46:A:TYR:HD2	1	0.32
(1,3777)	1:45:A:LYS:HG2	1:46:A:TYR:HD1	9	0.32
(1,3777)	1:45:A:LYS:HG2	1:46:A:TYR:HD2	9	0.32
(1,3718)	1:87:A:ASN:HD21	1:79:A:VAL:HB	5	0.32
(1,3652)	1:22:A:LYS:H	1:22:A:LYS:HE2	3	0.32
(1,3599)	1:98:A:THR:HG21	1:95:A:ASN:HD22	8	0.32
(1,3599)	1:98:A:THR:HG22	1:95:A:ASN:HD22	8	0.32
(1,3599)	1:98:A:THR:HG23	1:95:A:ASN:HD22	8	0.32
(1,3475)	1:19:A:ILE:HD11	1:18:A:GLU:H	1	0.32
(1,3475)	1:19:A:ILE:HD12	1:18:A:GLU:H	1	0.32
(1,3475)	1:19:A:ILE:HD13	1:18:A:GLU:H	1	0.32
(1,3444)	1:63:A:GLN:HB3	1:14:A:TRP:HE1	6	0.32
(1,3444)	1:63:A:GLN:HB3	1:14:A:TRP:HE1	8	0.32
(1,3322)	1:22:A:LYS:H	1:67:A:GLU:HB2	5	0.32
(1,3245)	1:30:A:GLU:HG2	1:33:A:HIS:H	1	0.32
(1,3245)	1:30:A:GLU:HG3	1:33:A:HIS:H	5	0.32
(1,3209)	1:36:A:LYS:H	1:53:A:ILE:HD11	1	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3209)	1:36:A:LYS:H	1:53:A:ILE:HD12	1	0.32
(1,3209)	1:36:A:LYS:H	1:53:A:ILE:HD13	1	0.32
(1,3209)	1:36:A:LYS:H	1:53:A:ILE:HD11	3	0.32
(1,3209)	1:36:A:LYS:H	1:53:A:ILE:HD12	3	0.32
(1,3209)	1:36:A:LYS:H	1:53:A:ILE:HD13	3	0.32
(1,3176)	1:51:A:LYS:HB3	1:40:A:LYS:H	6	0.32
(1,3146)	1:42:A:VAL:HG21	1:43:A:ILE:H	1	0.32
(1,3146)	1:42:A:VAL:HG22	1:43:A:ILE:H	1	0.32
(1,3146)	1:42:A:VAL:HG23	1:43:A:ILE:H	1	0.32
(1,3126)	1:44:A:ASP:H	1:47:A:THR:HA	9	0.32
(1,3089)	1:48:A:ALA:H	1:63:A:GLN:HA	5	0.32
(1,2863)	1:75:A:LYS:HB2	1:75:A:LYS:H	10	0.32
(1,2816)	1:85:A:ARG:HA	1:79:A:VAL:H	8	0.32
(1,2786)	1:81:A:ASN:H	1:86:A:GLY:H	6	0.32
(1,2747)	1:85:A:ARG:HB3	1:86:A:GLY:H	9	0.32
(1,2592)	1:97:A:LYS:HB3	1:100:A:SER:H	4	0.32
(1,2473)	1:105:A:ILE:HD11	1:111:A:LYS:H	7	0.32
(1,2473)	1:105:A:ILE:HD12	1:111:A:LYS:H	7	0.32
(1,2473)	1:105:A:ILE:HD13	1:111:A:LYS:H	7	0.32
(1,2454)	1:113:A:ARG:HD2	1:114:A:ARG:H	4	0.32
(1,2442)	1:103:A:ILE:H	1:116:A:GLU:H	1	0.32
(1,2335)	1:68:A:THR:HB	1:125:A:LYS:H	3	0.32
(1,2294)	1:19:A:ILE:HD11	1:16:A:GLN:HB2	3	0.32
(1,2294)	1:19:A:ILE:HD12	1:16:A:GLN:HB2	3	0.32
(1,2294)	1:19:A:ILE:HD13	1:16:A:GLN:HB2	3	0.32
(1,2275)	1:21:A:VAL:HG21	1:22:A:LYS:H	10	0.32
(1,2275)	1:21:A:VAL:HG22	1:22:A:LYS:H	10	0.32
(1,2275)	1:21:A:VAL:HG23	1:22:A:LYS:H	10	0.32
(1,2256)	1:40:A:LYS:HE3	1:38:A:ILE:HB	5	0.32
(1,2243)	1:52:A:MET:HB3	1:55:A:SER:HB2	10	0.32
(1,2240)	1:79:A:VAL:HG11	1:123:A:ILE:HG21	1	0.32
(1,2240)	1:79:A:VAL:HG11	1:123:A:ILE:HG22	1	0.32
(1,2240)	1:79:A:VAL:HG11	1:123:A:ILE:HG23	1	0.32
(1,2240)	1:79:A:VAL:HG12	1:123:A:ILE:HG21	1	0.32
(1,2240)	1:79:A:VAL:HG12	1:123:A:ILE:HG22	1	0.32
(1,2240)	1:79:A:VAL:HG12	1:123:A:ILE:HG23	1	0.32
(1,2240)	1:79:A:VAL:HG13	1:123:A:ILE:HG21	1	0.32
(1,2240)	1:79:A:VAL:HG13	1:123:A:ILE:HG22	1	0.32
(1,2240)	1:79:A:VAL:HG13	1:123:A:ILE:HG23	1	0.32
(1,2211)	1:84:A:TYR:HE1	1:103:A:ILE:HD11	3	0.32
(1,2211)	1:84:A:TYR:HE1	1:103:A:ILE:HD12	3	0.32
(1,2211)	1:84:A:TYR:HE1	1:103:A:ILE:HD13	3	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2211)	1:84:A:TYR:HE2	1:103:A:ILE:HD11	3	0.32
(1,2211)	1:84:A:TYR:HE2	1:103:A:ILE:HD12	3	0.32
(1,2211)	1:84:A:TYR:HE2	1:103:A:ILE:HD13	3	0.32
(1,2205)	1:49:A:VAL:HG11	1:41:A:GLU:H	3	0.32
(1,2205)	1:49:A:VAL:HG12	1:41:A:GLU:H	3	0.32
(1,2205)	1:49:A:VAL:HG13	1:41:A:GLU:H	3	0.32
(1,2168)	1:61:A:LEU:HG	1:65:A:HIS:HB3	1	0.32
(1,2158)	1:117:A:GLY:HA3	1:100:A:SER:HB2	5	0.32
(1,2155)	1:118:A:ILE:HA	1:101:A:ALA:H	4	0.32
(1,2034)	1:98:A:THR:HG21	1:95:A:ASN:HB3	2	0.32
(1,2034)	1:98:A:THR:HG22	1:95:A:ASN:HB3	2	0.32
(1,2034)	1:98:A:THR:HG23	1:95:A:ASN:HB3	2	0.32
(1,2007)	1:78:A:LEU:H	1:123:A:ILE:HA	5	0.32
(1,1938)	1:116:A:GLU:H	1:116:A:GLU:HG2	2	0.32
(1,1868)	1:104:A:VAL:HG21	1:112:A:GLY:HA3	9	0.32
(1,1868)	1:104:A:VAL:HG22	1:112:A:GLY:HA3	9	0.32
(1,1868)	1:104:A:VAL:HG23	1:112:A:GLY:HA3	9	0.32
(1,1682)	1:47:A:THR:HG21	1:43:A:ILE:HB	6	0.32
(1,1682)	1:47:A:THR:HG22	1:43:A:ILE:HB	6	0.32
(1,1682)	1:47:A:THR:HG23	1:43:A:ILE:HB	6	0.32
(1,1641)	1:117:A:GLY:HA3	1:100:A:SER:HB2	8	0.32
(1,1351)	1:48:A:ALA:HB1	1:42:A:VAL:HA	7	0.32
(1,1351)	1:48:A:ALA:HB2	1:42:A:VAL:HA	7	0.32
(1,1351)	1:48:A:ALA:HB3	1:42:A:VAL:HA	7	0.32
(1,1262)	1:75:A:LYS:HD2	1:75:A:LYS:HA	8	0.32
(1,1176)	1:70:A:ILE:H	1:70:A:ILE:HG13	1	0.32
(1,1176)	1:70:A:ILE:H	1:70:A:ILE:HG13	5	0.32
(1,869)	1:94:A:ILE:HD11	1:120:A:TYR:HE1	2	0.32
(1,869)	1:94:A:ILE:HD11	1:120:A:TYR:HE2	2	0.32
(1,869)	1:94:A:ILE:HD12	1:120:A:TYR:HE1	2	0.32
(1,869)	1:94:A:ILE:HD12	1:120:A:TYR:HE2	2	0.32
(1,869)	1:94:A:ILE:HD13	1:120:A:TYR:HE1	2	0.32
(1,869)	1:94:A:ILE:HD13	1:120:A:TYR:HE2	2	0.32
(1,629)	1:104:A:VAL:HB	1:104:A:VAL:H	8	0.32
(1,548)	1:39:A:VAL:HA	1:50:A:VAL:HB	8	0.32
(1,440)	1:111:A:LYS:HD2	1:107:A:THR:HA	9	0.32
(1,399)	1:66:A:LEU:HA	1:24:A:ILE:HG21	1	0.32
(1,399)	1:66:A:LEU:HA	1:24:A:ILE:HG22	1	0.32
(1,399)	1:66:A:LEU:HA	1:24:A:ILE:HG23	1	0.32
(1,384)	1:24:A:ILE:HD11	1:65:A:HIS:H	9	0.32
(1,384)	1:24:A:ILE:HD12	1:65:A:HIS:H	9	0.32
(1,384)	1:24:A:ILE:HD13	1:65:A:HIS:H	9	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,169)	1:80:A:LEU:HD21	1:16:A:GLN:HG3	9	0.32
(1,169)	1:80:A:LEU:HD22	1:16:A:GLN:HG3	9	0.32
(1,169)	1:80:A:LEU:HD23	1:16:A:GLN:HG3	9	0.32
(1,143)	1:15:A:LEU:HD11	1:63:A:GLN:HB2	9	0.32
(1,143)	1:15:A:LEU:HD12	1:63:A:GLN:HB2	9	0.32
(1,143)	1:15:A:LEU:HD13	1:63:A:GLN:HB2	9	0.32
(1,12)	1:96:A:GLU:HB2	1:96:A:GLU:H	4	0.32
(3,1173)	1:84:A:TYR:HE1	1:113:A:ARG:HG2	7	0.31
(3,1142)	1:109:A:PRO:HB2	1:109:A:PRO:HD3	2	0.31
(3,1142)	1:109:A:PRO:HB2	1:109:A:PRO:HD3	9	0.31
(3,993)	1:61:A:LEU:HG	1:50:A:VAL:H	2	0.31
(3,865)	1:31:A:LYS:HG2	1:31:A:LYS:HE2	4	0.31
(3,865)	1:31:A:LYS:HG2	1:31:A:LYS:HE2	8	0.31
(3,855)	1:17:A:PRO:HD3	1:16:A:GLN:HB2	6	0.31
(3,767)	1:77:A:ILE:H	1:77:A:ILE:HD13	3	0.31
(3,743)	1:37:A:ALA:HB1	1:50:A:VAL:HA	6	0.31
(3,743)	1:37:A:ALA:HB2	1:50:A:VAL:HA	10	0.31
(3,640)	1:120:A:TYR:HA	1:120:A:TYR:H	3	0.31
(3,602)	1:61:A:LEU:HG	1:61:A:LEU:HD11	2	0.31
(3,602)	1:61:A:LEU:HG	1:61:A:LEU:HD11	5	0.31
(3,602)	1:61:A:LEU:HG	1:61:A:LEU:HD12	7	0.31
(3,600)	1:20:A:ILE:HB	1:21:A:VAL:H	4	0.31
(3,537)	1:85:A:ARG:HD2	1:82:A:GLY:H	4	0.31
(3,423)	1:61:A:LEU:HD13	1:25:A:THR:H	1	0.31
(3,378)	1:89:A:GLY:H	1:103:A:ILE:HD12	5	0.31
(3,348)	1:113:A:ARG:H	1:113:A:ARG:HD2	6	0.31
(3,304)	1:94:A:ILE:HB	1:70:A:ILE:HG22	8	0.31
(3,300)	1:11:A:THR:HG21	1:13:A:TYR:HE1	1	0.31
(3,296)	1:91:A:LEU:HD23	1:101:A:ALA:HB3	2	0.31
(3,296)	1:91:A:LEU:HD23	1:91:A:LEU:HG	10	0.31
(3,264)	1:77:A:ILE:H	1:91:A:LEU:H	7	0.31
(3,264)	1:77:A:ILE:H	1:91:A:LEU:H	8	0.31
(3,192)	1:58:A:LYS:HA	1:58:A:LYS:HB3	1	0.31
(3,192)	1:58:A:LYS:HA	1:58:A:LYS:HB3	2	0.31
(3,192)	1:58:A:LYS:HA	1:58:A:LYS:HB3	4	0.31
(3,192)	1:58:A:LYS:HA	1:58:A:LYS:HB3	7	0.31
(3,192)	1:58:A:LYS:HA	1:58:A:LYS:HB3	9	0.31
(3,165)	1:79:A:VAL:HG13	1:88:A:GLU:HA	8	0.31
(3,153)	1:123:A:ILE:HD13	1:102:A:THR:H	2	0.31
(3,85)	1:36:A:LYS:HA	1:69:A:VAL:HG12	10	0.31
(2,574)	1:39:A:VAL:H	1:20:A:ILE:HG12	6	0.31
(2,304)	1:105:A:ILE:HB	1:115:A:VAL:HG11	10	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,304)	1:105:A:ILE:HB	1:115:A:VAL:HG12	10	0.31
(2,304)	1:105:A:ILE:HB	1:115:A:VAL:HG13	10	0.31
(1,3750)	1:14:A:TRP:HZ2	1:63:A:GLN:HB3	5	0.31
(1,3718)	1:87:A:ASN:HD21	1:79:A:VAL:HB	4	0.31
(1,3715)	1:84:A:TYR:HE1	1:87:A:ASN:HD22	5	0.31
(1,3715)	1:84:A:TYR:HE2	1:87:A:ASN:HD22	5	0.31
(1,3643)	1:13:A:TYR:H	1:63:A:GLN:HE21	9	0.31
(1,3547)	1:84:A:TYR:HB2	1:79:A:VAL:H	6	0.31
(1,3415)	1:7:A:ARG:HG3	1:7:A:ARG:H	8	0.31
(1,3363)	1:15:A:LEU:H	1:15:A:LEU:HD11	9	0.31
(1,3363)	1:15:A:LEU:H	1:15:A:LEU:HD12	9	0.31
(1,3363)	1:15:A:LEU:H	1:15:A:LEU:HD13	9	0.31
(1,3089)	1:48:A:ALA:H	1:63:A:GLN:HA	4	0.31
(1,3011)	1:58:A:LYS:H	1:57:A:ASP:HB3	4	0.31
(1,3000)	1:59:A:LEU:HD11	1:60:A:LYS:H	10	0.31
(1,3000)	1:59:A:LEU:HD12	1:60:A:LYS:H	10	0.31
(1,3000)	1:59:A:LEU:HD13	1:60:A:LYS:H	10	0.31
(1,2921)	1:21:A:VAL:HG21	1:67:A:GLU:H	8	0.31
(1,2921)	1:21:A:VAL:HG22	1:67:A:GLU:H	8	0.31
(1,2921)	1:21:A:VAL:HG23	1:67:A:GLU:H	8	0.31
(1,2794)	1:81:A:ASN:H	1:80:A:LEU:HB3	6	0.31
(1,2794)	1:81:A:ASN:H	1:80:A:LEU:HB3	9	0.31
(1,2641)	1:95:A:ASN:HD21	1:95:A:ASN:H	2	0.31
(1,2633)	1:96:A:GLU:H	1:95:A:ASN:HB3	4	0.31
(1,2625)	1:97:A:LYS:H	1:99:A:PHE:H	9	0.31
(1,2590)	1:100:A:SER:H	1:99:A:PHE:HB2	1	0.31
(1,2590)	1:100:A:SER:H	1:99:A:PHE:HB2	4	0.31
(1,2418)	1:118:A:ILE:HG13	1:118:A:ILE:H	7	0.31
(1,2346)	1:124:A:SER:H	1:78:A:LEU:HB2	7	0.31
(1,2275)	1:21:A:VAL:HG21	1:22:A:LYS:H	5	0.31
(1,2275)	1:21:A:VAL:HG22	1:22:A:LYS:H	5	0.31
(1,2275)	1:21:A:VAL:HG23	1:22:A:LYS:H	5	0.31
(1,2244)	1:15:A:LEU:HB2	1:48:A:ALA:HB1	8	0.31
(1,2244)	1:15:A:LEU:HB2	1:48:A:ALA:HB2	8	0.31
(1,2244)	1:15:A:LEU:HB2	1:48:A:ALA:HB3	8	0.31
(1,2219)	1:120:A:TYR:H	1:101:A:ALA:HB1	4	0.31
(1,2219)	1:120:A:TYR:H	1:101:A:ALA:HB2	4	0.31
(1,2219)	1:120:A:TYR:H	1:101:A:ALA:HB3	4	0.31
(1,2205)	1:49:A:VAL:HG21	1:41:A:GLU:H	4	0.31
(1,2205)	1:49:A:VAL:HG22	1:41:A:GLU:H	4	0.31
(1,2205)	1:49:A:VAL:HG23	1:41:A:GLU:H	4	0.31
(1,2193)	1:107:A:THR:HG21	1:87:A:ASN:HA	10	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2193)	1:107:A:THR:HG22	1:87:A:ASN:HA	10	0.31
(1,2193)	1:107:A:THR:HG23	1:87:A:ASN:HA	10	0.31
(1,2148)	1:93:A:SER:H	1:91:A:LEU:HG	2	0.31
(1,2122)	1:78:A:LEU:HA	1:123:A:ILE:HG21	3	0.31
(1,2122)	1:78:A:LEU:HA	1:123:A:ILE:HG22	3	0.31
(1,2122)	1:78:A:LEU:HA	1:123:A:ILE:HG23	3	0.31
(1,1936)	1:116:A:GLU:H	1:116:A:GLU:HG2	5	0.31
(1,1882)	1:113:A:ARG:HA	1:113:A:ARG:HD2	5	0.31
(1,1882)	1:113:A:ARG:HA	1:113:A:ARG:HD2	8	0.31
(1,1608)	1:97:A:LYS:HG2	1:97:A:LYS:HA	8	0.31
(1,1448)	1:85:A:ARG:HD2	1:81:A:ASN:HA	9	0.31
(1,1262)	1:75:A:LYS:HD2	1:75:A:LYS:HA	7	0.31
(1,1256)	1:90:A:THR:HG21	1:74:A:GLY:HA3	2	0.31
(1,1256)	1:90:A:THR:HG22	1:74:A:GLY:HA3	2	0.31
(1,1256)	1:90:A:THR:HG23	1:74:A:GLY:HA3	2	0.31
(1,1220)	1:73:A:PRO:HA	1:91:A:LEU:HB2	9	0.31
(1,1216)	1:75:A:LYS:HG2	1:72:A:ALA:HB1	8	0.31
(1,1216)	1:75:A:LYS:HG2	1:72:A:ALA:HB2	8	0.31
(1,1216)	1:75:A:LYS:HG2	1:72:A:ALA:HB3	8	0.31
(1,1209)	1:73:A:PRO:HD2	1:72:A:ALA:HA	6	0.31
(1,1176)	1:70:A:ILE:H	1:70:A:ILE:HG13	8	0.31
(1,1051)	1:63:A:GLN:HG2	1:64:A:THR:HG21	6	0.31
(1,1051)	1:63:A:GLN:HG2	1:64:A:THR:HG22	6	0.31
(1,1051)	1:63:A:GLN:HG2	1:64:A:THR:HG23	6	0.31
(1,970)	1:61:A:LEU:HB2	1:62:A:ASP:H	1	0.31
(1,970)	1:61:A:LEU:HB2	1:62:A:ASP:H	4	0.31
(1,957)	1:60:A:LYS:HB3	1:59:A:LEU:HA	10	0.31
(1,951)	1:60:A:LYS:HA	1:50:A:VAL:H	3	0.31
(1,951)	1:60:A:LYS:HA	1:50:A:VAL:H	10	0.31
(1,918)	1:60:A:LYS:HB2	1:59:A:LEU:HA	2	0.31
(1,856)	1:38:A:ILE:H	1:53:A:ILE:HD11	5	0.31
(1,856)	1:38:A:ILE:H	1:53:A:ILE:HD12	5	0.31
(1,856)	1:38:A:ILE:H	1:53:A:ILE:HD13	5	0.31
(1,856)	1:38:A:ILE:H	1:53:A:ILE:HD11	7	0.31
(1,856)	1:38:A:ILE:H	1:53:A:ILE:HD12	7	0.31
(1,856)	1:38:A:ILE:H	1:53:A:ILE:HD13	7	0.31
(1,683)	1:43:A:ILE:HD11	1:43:A:ILE:HA	7	0.31
(1,683)	1:43:A:ILE:HD12	1:43:A:ILE:HA	7	0.31
(1,683)	1:43:A:ILE:HD13	1:43:A:ILE:HA	7	0.31
(1,662)	1:45:A:LYS:HA	1:42:A:VAL:HG21	6	0.31
(1,662)	1:45:A:LYS:HA	1:42:A:VAL:HG22	6	0.31
(1,662)	1:45:A:LYS:HA	1:42:A:VAL:HG23	6	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,571)	1:39:A:VAL:HG11	1:50:A:VAL:HA	9	0.31
(1,571)	1:39:A:VAL:HG12	1:50:A:VAL:HA	9	0.31
(1,571)	1:39:A:VAL:HG13	1:50:A:VAL:HA	9	0.31
(1,548)	1:39:A:VAL:HA	1:50:A:VAL:HB	3	0.31
(1,451)	1:28:A:LEU:H	1:28:A:LEU:HD11	3	0.31
(1,451)	1:28:A:LEU:H	1:28:A:LEU:HD12	3	0.31
(1,451)	1:28:A:LEU:H	1:28:A:LEU:HD13	3	0.31
(1,434)	1:61:A:LEU:HD21	1:59:A:LEU:HD11	8	0.31
(1,434)	1:61:A:LEU:HD21	1:59:A:LEU:HD12	8	0.31
(1,434)	1:61:A:LEU:HD21	1:59:A:LEU:HD13	8	0.31
(1,434)	1:61:A:LEU:HD22	1:59:A:LEU:HD11	8	0.31
(1,434)	1:61:A:LEU:HD22	1:59:A:LEU:HD12	8	0.31
(1,434)	1:61:A:LEU:HD22	1:59:A:LEU:HD13	8	0.31
(1,434)	1:61:A:LEU:HD23	1:59:A:LEU:HD11	8	0.31
(1,434)	1:61:A:LEU:HD23	1:59:A:LEU:HD12	8	0.31
(1,434)	1:61:A:LEU:HD23	1:59:A:LEU:HD13	8	0.31
(1,106)	1:14:A:TRP:HB3	1:80:A:LEU:HD11	2	0.31
(1,106)	1:14:A:TRP:HB3	1:80:A:LEU:HD12	2	0.31
(1,106)	1:14:A:TRP:HB3	1:80:A:LEU:HD13	2	0.31
(1,25)	1:7:A:ARG:HA	1:7:A:ARG:HG2	10	0.31
(1,12)	1:96:A:GLU:HB2	1:96:A:GLU:H	3	0.31
(1,12)	1:96:A:GLU:HB2	1:96:A:GLU:H	5	0.31
(1,12)	1:96:A:GLU:HB2	1:96:A:GLU:H	9	0.31
(3,1182)	1:118:A:ILE:HG22	1:118:A:ILE:HA	4	0.3
(3,1182)	1:118:A:ILE:HG22	1:118:A:ILE:HA	6	0.3
(3,1178)	1:17:A:PRO:HD2	1:16:A:GLN:HG2	8	0.3
(3,1173)	1:84:A:TYR:HE2	1:113:A:ARG:HG2	6	0.3
(3,1135)	1:79:A:VAL:H	1:123:A:ILE:HG23	1	0.3
(3,1135)	1:79:A:VAL:H	1:123:A:ILE:HG23	2	0.3
(3,1128)	1:72:A:ALA:H	1:71:A:PRO:HB3	7	0.3
(3,1128)	1:75:A:LYS:HG2	1:72:A:ALA:H	9	0.3
(3,1060)	1:9:A:ALA:HB2	1:9:A:ALA:H	7	0.3
(3,1030)	1:36:A:LYS:H	1:37:A:ALA:H	6	0.3
(3,1030)	1:36:A:LYS:H	1:37:A:ALA:H	9	0.3
(3,1025)	1:102:A:THR:H	1:103:A:ILE:H	10	0.3
(3,973)	1:20:A:ILE:HG23	1:21:A:VAL:H	3	0.3
(3,973)	1:20:A:ILE:HG23	1:21:A:VAL:H	9	0.3
(3,936)	1:77:A:ILE:HG13	1:103:A:ILE:HB	1	0.3
(3,885)	1:69:A:VAL:HG21	1:69:A:VAL:HB	4	0.3
(3,799)	1:48:A:ALA:H	1:60:A:LYS:HD3	2	0.3
(3,789)	1:118:A:ILE:HG12	1:101:A:ALA:H	6	0.3
(3,767)	1:77:A:ILE:H	1:77:A:ILE:HD11	7	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,735)	1:115:A:VAL:HG11	1:103:A:ILE:HD13	2	0.3
(3,646)	1:85:A:ARG:H	1:83:A:GLY:H	9	0.3
(3,634)	1:77:A:ILE:HG12	1:104:A:VAL:H	3	0.3
(3,602)	1:61:A:LEU:HG	1:61:A:LEU:HD12	3	0.3
(3,602)	1:61:A:LEU:HG	1:61:A:LEU:HD11	4	0.3
(3,602)	1:61:A:LEU:HG	1:61:A:LEU:HD13	6	0.3
(3,602)	1:61:A:LEU:HG	1:61:A:LEU:HD13	8	0.3
(3,602)	1:61:A:LEU:HG	1:61:A:LEU:HD13	10	0.3
(3,440)	1:93:A:SER:H	1:103:A:ILE:H	2	0.3
(3,381)	1:45:A:LYS:H	1:44:A:ASP:HB3	4	0.3
(3,345)	1:35:A:LYS:H	1:22:A:LYS:HG3	5	0.3
(3,342)	1:113:A:ARG:HB2	1:114:A:ARG:H	3	0.3
(3,296)	1:91:A:LEU:HD21	1:101:A:ALA:HB3	3	0.3
(3,291)	1:114:A:ARG:H	1:114:A:ARG:HG2	2	0.3
(3,264)	1:77:A:ILE:H	1:91:A:LEU:H	9	0.3
(3,197)	1:60:A:LYS:HB3	1:60:A:LYS:HA	1	0.3
(3,197)	1:60:A:LYS:HB3	1:60:A:LYS:HA	2	0.3
(3,197)	1:60:A:LYS:HB3	1:60:A:LYS:HA	3	0.3
(3,197)	1:60:A:LYS:HB3	1:60:A:LYS:HA	4	0.3
(3,197)	1:60:A:LYS:HB3	1:60:A:LYS:HA	5	0.3
(3,197)	1:60:A:LYS:HB3	1:60:A:LYS:HA	6	0.3
(3,197)	1:60:A:LYS:HB3	1:60:A:LYS:HA	7	0.3
(3,197)	1:60:A:LYS:HB3	1:60:A:LYS:HA	8	0.3
(3,197)	1:60:A:LYS:HB3	1:60:A:LYS:HA	9	0.3
(3,197)	1:60:A:LYS:HB3	1:60:A:LYS:HA	10	0.3
(3,192)	1:58:A:LYS:HA	1:58:A:LYS:HB3	3	0.3
(3,192)	1:58:A:LYS:HA	1:58:A:LYS:HB3	5	0.3
(3,192)	1:58:A:LYS:HA	1:58:A:LYS:HB3	6	0.3
(3,192)	1:58:A:LYS:HA	1:58:A:LYS:HB3	8	0.3
(3,192)	1:58:A:LYS:HA	1:58:A:LYS:HB3	10	0.3
(3,165)	1:79:A:VAL:HG11	1:88:A:GLU:HA	5	0.3
(3,140)	1:78:A:LEU:HD22	1:88:A:GLU:HG3	10	0.3
(2,609)	1:119:A:GLN:HE21	1:121:A:GLU:HB2	4	0.3
(2,593)	1:66:A:LEU:HB3	1:14:A:TRP:HE1	5	0.3
(2,593)	1:66:A:LEU:HB3	1:14:A:TRP:HE1	9	0.3
(2,304)	1:105:A:ILE:HB	1:115:A:VAL:HG11	4	0.3
(2,304)	1:105:A:ILE:HB	1:115:A:VAL:HG12	4	0.3
(2,304)	1:105:A:ILE:HB	1:115:A:VAL:HG13	4	0.3
(1,3866)	1:120:A:TYR:HE1	1:99:A:PHE:H	1	0.3
(1,3866)	1:120:A:TYR:HE2	1:99:A:PHE:H	1	0.3
(1,3855)	1:120:A:TYR:H	1:120:A:TYR:HE1	5	0.3
(1,3855)	1:120:A:TYR:H	1:120:A:TYR:HE2	5	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3855)	1:120:A:TYR:H	1:120:A:TYR:HE1	7	0.3
(1,3855)	1:120:A:TYR:H	1:120:A:TYR:HE2	7	0.3
(1,3775)	1:13:A:TYR:HB2	1:46:A:TYR:HD1	4	0.3
(1,3775)	1:13:A:TYR:HB2	1:46:A:TYR:HD2	4	0.3
(1,3714)	1:84:A:TYR:HD1	1:87:A:ASN:HD22	8	0.3
(1,3714)	1:84:A:TYR:HD2	1:87:A:ASN:HD22	8	0.3
(1,3631)	1:23:A:ILE:H	1:32:A:TYR:HB3	2	0.3
(1,3592)	1:95:A:ASN:HA	1:95:A:ASN:HD22	2	0.3
(1,3545)	1:66:A:LEU:H	1:63:A:GLN:HG2	4	0.3
(1,3446)	1:68:A:THR:HG21	1:14:A:TRP:HE1	3	0.3
(1,3446)	1:68:A:THR:HG22	1:14:A:TRP:HE1	3	0.3
(1,3446)	1:68:A:THR:HG23	1:14:A:TRP:HE1	3	0.3
(1,3363)	1:15:A:LEU:H	1:15:A:LEU:HD11	6	0.3
(1,3363)	1:15:A:LEU:H	1:15:A:LEU:HD12	6	0.3
(1,3363)	1:15:A:LEU:H	1:15:A:LEU:HD13	6	0.3
(1,3208)	1:36:A:LYS:HG2	1:36:A:LYS:H	8	0.3
(1,3089)	1:48:A:ALA:H	1:63:A:GLN:HA	9	0.3
(1,2958)	1:64:A:THR:H	1:63:A:GLN:HB2	3	0.3
(1,2888)	1:70:A:ILE:H	1:69:A:VAL:HG21	5	0.3
(1,2888)	1:70:A:ILE:H	1:69:A:VAL:HG22	5	0.3
(1,2888)	1:70:A:ILE:H	1:69:A:VAL:HG23	5	0.3
(1,2841)	1:111:A:LYS:HE3	1:112:A:GLY:H	8	0.3
(1,2807)	1:79:A:VAL:HG11	1:80:A:LEU:H	6	0.3
(1,2807)	1:79:A:VAL:HG12	1:80:A:LEU:H	6	0.3
(1,2807)	1:79:A:VAL:HG13	1:80:A:LEU:H	6	0.3
(1,2802)	1:81:A:ASN:HB3	1:80:A:LEU:H	10	0.3
(1,2735)	1:85:A:ARG:HB3	1:87:A:ASN:H	1	0.3
(1,2634)	1:96:A:GLU:HG3	1:96:A:GLU:H	10	0.3
(1,2608)	1:97:A:LYS:HB3	1:98:A:THR:H	10	0.3
(1,2592)	1:97:A:LYS:HB3	1:100:A:SER:H	8	0.3
(1,2590)	1:100:A:SER:H	1:99:A:PHE:HB2	6	0.3
(1,2467)	1:113:A:ARG:H	1:105:A:ILE:HG13	9	0.3
(1,2418)	1:118:A:ILE:HG13	1:118:A:ILE:H	5	0.3
(1,2148)	1:93:A:SER:H	1:91:A:LEU:HG	4	0.3
(1,2110)	1:126:A:LEU:HB3	1:77:A:ILE:HG21	4	0.3
(1,2110)	1:126:A:LEU:HB3	1:77:A:ILE:HG22	4	0.3
(1,2110)	1:126:A:LEU:HB3	1:77:A:ILE:HG23	4	0.3
(1,2047)	1:80:A:LEU:HD11	1:124:A:SER:HB2	10	0.3
(1,2047)	1:80:A:LEU:HD12	1:124:A:SER:HB2	10	0.3
(1,2047)	1:80:A:LEU:HD13	1:124:A:SER:HB2	10	0.3
(1,2046)	1:68:A:THR:HG21	1:124:A:SER:HB2	3	0.3
(1,2046)	1:68:A:THR:HG22	1:124:A:SER:HB2	3	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2046)	1:68:A:THR:HG23	1:124:A:SER:HB2	3	0.3
(1,1959)	1:118:A:ILE:HD11	1:122:A:ASP:HB2	9	0.3
(1,1959)	1:118:A:ILE:HD12	1:122:A:ASP:HB2	9	0.3
(1,1959)	1:118:A:ILE:HD13	1:122:A:ASP:HB2	9	0.3
(1,1938)	1:116:A:GLU:H	1:116:A:GLU:HG2	1	0.3
(1,1936)	1:116:A:GLU:H	1:116:A:GLU:HG2	8	0.3
(1,1526)	1:92:A:GLU:H	1:91:A:LEU:HG	7	0.3
(1,1306)	1:77:A:ILE:HD11	1:90:A:THR:HA	8	0.3
(1,1306)	1:77:A:ILE:HD12	1:90:A:THR:HA	8	0.3
(1,1306)	1:77:A:ILE:HD13	1:90:A:THR:HA	8	0.3
(1,1214)	1:73:A:PRO:HD3	1:72:A:ALA:HB1	6	0.3
(1,1214)	1:73:A:PRO:HD3	1:72:A:ALA:HB2	6	0.3
(1,1214)	1:73:A:PRO:HD3	1:72:A:ALA:HB3	6	0.3
(1,1051)	1:63:A:GLN:HG2	1:64:A:THR:HG21	1	0.3
(1,1051)	1:63:A:GLN:HG2	1:64:A:THR:HG22	1	0.3
(1,1051)	1:63:A:GLN:HG2	1:64:A:THR:HG23	1	0.3
(1,832)	1:52:A:MET:H	1:52:A:MET:HG2	5	0.3
(1,700)	1:43:A:ILE:HG12	1:41:A:GLU:HG3	4	0.3
(1,695)	1:14:A:TRP:HB3	1:80:A:LEU:HD11	7	0.3
(1,695)	1:14:A:TRP:HB3	1:80:A:LEU:HD12	7	0.3
(1,695)	1:14:A:TRP:HB3	1:80:A:LEU:HD13	7	0.3
(1,673)	1:41:A:GLU:HG3	1:43:A:ILE:HA	7	0.3
(1,662)	1:45:A:LYS:HA	1:42:A:VAL:HG21	1	0.3
(1,662)	1:45:A:LYS:HA	1:42:A:VAL:HG22	1	0.3
(1,662)	1:45:A:LYS:HA	1:42:A:VAL:HG23	1	0.3
(1,629)	1:104:A:VAL:HB	1:104:A:VAL:H	6	0.3
(1,578)	1:42:A:VAL:HG11	1:39:A:VAL:HG21	9	0.3
(1,578)	1:42:A:VAL:HG11	1:39:A:VAL:HG22	9	0.3
(1,578)	1:42:A:VAL:HG11	1:39:A:VAL:HG23	9	0.3
(1,578)	1:42:A:VAL:HG12	1:39:A:VAL:HG21	9	0.3
(1,578)	1:42:A:VAL:HG12	1:39:A:VAL:HG22	9	0.3
(1,578)	1:42:A:VAL:HG12	1:39:A:VAL:HG23	9	0.3
(1,578)	1:42:A:VAL:HG13	1:39:A:VAL:HG21	9	0.3
(1,578)	1:42:A:VAL:HG13	1:39:A:VAL:HG22	9	0.3
(1,578)	1:42:A:VAL:HG13	1:39:A:VAL:HG23	9	0.3
(1,384)	1:24:A:ILE:HD11	1:65:A:HIS:H	4	0.3
(1,384)	1:24:A:ILE:HD12	1:65:A:HIS:H	4	0.3
(1,384)	1:24:A:ILE:HD13	1:65:A:HIS:H	4	0.3
(1,178)	1:17:A:PRO:HA	1:39:A:VAL:HG21	10	0.3
(1,178)	1:17:A:PRO:HA	1:39:A:VAL:HG22	10	0.3
(1,178)	1:17:A:PRO:HA	1:39:A:VAL:HG23	10	0.3
(1,35)	1:113:A:ARG:HG3	1:114:A:ARG:H	1	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,25)	1:7:A:ARG:HA	1:7:A:ARG:HG2	3	0.3
(1,12)	1:96:A:GLU:HB2	1:96:A:GLU:H	7	0.3
(1,12)	1:96:A:GLU:HB2	1:96:A:GLU:H	8	0.3
(1,12)	1:96:A:GLU:HB2	1:96:A:GLU:H	10	0.3
(3,1210)	1:104:A:VAL:HG13	1:104:A:VAL:HG22	2	0.29
(3,1210)	1:104:A:VAL:HG13	1:104:A:VAL:HG23	5	0.29
(3,1210)	1:104:A:VAL:HG11	1:104:A:VAL:HG22	6	0.29
(3,1210)	1:104:A:VAL:HG13	1:104:A:VAL:HG21	7	0.29
(3,1184)	1:55:A:SER:HB3	1:57:A:ASP:HB2	3	0.29
(3,1174)	1:84:A:TYR:HE2	1:113:A:ARG:HD2	1	0.29
(3,1170)	1:111:A:LYS:HB2	1:112:A:GLY:H	5	0.29
(3,1128)	1:72:A:ALA:H	1:71:A:PRO:HB3	5	0.29
(3,1128)	1:75:A:LYS:HG2	1:72:A:ALA:H	8	0.29
(3,1108)	1:53:A:ILE:HB	1:56:A:GLY:H	6	0.29
(3,1091)	1:115:A:VAL:H	1:105:A:ILE:H	6	0.29
(3,995)	1:102:A:THR:HG21	1:116:A:GLU:H	2	0.29
(3,970)	1:100:A:SER:H	1:101:A:ALA:H	2	0.29
(3,951)	1:124:A:SER:H	1:123:A:ILE:HG23	9	0.29
(3,928)	1:120:A:TYR:HA	1:123:A:ILE:HG21	8	0.29
(3,885)	1:69:A:VAL:HG21	1:69:A:VAL:HB	3	0.29
(3,885)	1:69:A:VAL:HG22	1:69:A:VAL:HB	8	0.29
(3,885)	1:69:A:VAL:HG22	1:69:A:VAL:HB	10	0.29
(3,841)	1:80:A:LEU:H	1:123:A:ILE:HG23	4	0.29
(3,767)	1:77:A:ILE:H	1:77:A:ILE:HD13	1	0.29
(3,743)	1:37:A:ALA:HB1	1:50:A:VAL:HA	4	0.29
(3,743)	1:37:A:ALA:HB1	1:50:A:VAL:HA	5	0.29
(3,735)	1:115:A:VAL:HG12	1:103:A:ILE:HD11	3	0.29
(3,640)	1:6:A:LYS:HA	1:6:A:LYS:H	7	0.29
(3,602)	1:61:A:LEU:HG	1:61:A:LEU:HD11	1	0.29
(3,602)	1:61:A:LEU:HG	1:61:A:LEU:HD13	9	0.29
(3,595)	1:105:A:ILE:HB	1:106:A:GLU:H	10	0.29
(3,518)	1:26:A:LYS:HD2	1:30:A:GLU:HG2	2	0.29
(3,403)	1:113:A:ARG:HB2	1:105:A:ILE:H	3	0.29
(3,371)	1:20:A:ILE:HB	1:21:A:VAL:H	8	0.29
(3,187)	1:16:A:GLN:H	1:14:A:TRP:HZ3	6	0.29
(3,177)	1:122:A:ASP:HA	1:81:A:ASN:HB3	10	0.29
(3,153)	1:123:A:ILE:HD11	1:102:A:THR:H	5	0.29
(3,144)	1:96:A:GLU:HB3	1:97:A:LYS:H	4	0.29
(3,23)	1:127:A:ALA:HB2	1:18:A:GLU:H	3	0.29
(2,593)	1:66:A:LEU:HB3	1:14:A:TRP:HE1	1	0.29
(2,398)	1:13:A:TYR:HB3	1:15:A:LEU:HD21	3	0.29
(2,398)	1:13:A:TYR:HB3	1:15:A:LEU:HD22	3	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,398)	1:13:A:TYR:HB3	1:15:A:LEU:HD23	3	0.29
(2,362)	1:84:A:TYR:HB3	1:103:A:ILE:HG13	2	0.29
(2,222)	1:75:A:LYS:HA	1:76:A:ARG:HD2	10	0.29
(2,61)	1:26:A:LYS:HE2	1:24:A:ILE:HA	3	0.29
(1,3855)	1:120:A:TYR:H	1:120:A:TYR:HE1	4	0.29
(1,3855)	1:120:A:TYR:H	1:120:A:TYR:HE2	4	0.29
(1,3718)	1:87:A:ASN:HD21	1:79:A:VAL:HB	10	0.29
(1,3712)	1:87:A:ASN:HD21	1:84:A:TYR:H	7	0.29
(1,3697)	1:68:A:THR:H	1:14:A:TRP:HE1	8	0.29
(1,3695)	1:68:A:THR:H	1:121:A:GLU:HB3	9	0.29
(1,3676)	1:49:A:VAL:H	1:43:A:ILE:HB	2	0.29
(1,3670)	1:48:A:ALA:H	1:42:A:VAL:HA	9	0.29
(1,3547)	1:84:A:TYR:HB2	1:79:A:VAL:H	3	0.29
(1,3446)	1:68:A:THR:HG21	1:14:A:TRP:HE1	1	0.29
(1,3446)	1:68:A:THR:HG22	1:14:A:TRP:HE1	1	0.29
(1,3446)	1:68:A:THR:HG23	1:14:A:TRP:HE1	1	0.29
(1,3392)	1:11:A:THR:H	1:13:A:TYR:H	1	0.29
(1,3391)	1:11:A:THR:H	1:81:A:ASN:HD22	1	0.29
(1,3208)	1:36:A:LYS:HG2	1:36:A:LYS:H	3	0.29
(1,3208)	1:36:A:LYS:HG2	1:36:A:LYS:H	10	0.29
(1,3098)	1:44:A:ASP:HB2	1:47:A:THR:H	5	0.29
(1,3077)	1:49:A:VAL:H	1:43:A:ILE:H	3	0.29
(1,2906)	1:68:A:THR:H	1:66:A:LEU:HA	1	0.29
(1,2888)	1:70:A:ILE:H	1:69:A:VAL:HG21	6	0.29
(1,2888)	1:70:A:ILE:H	1:69:A:VAL:HG22	6	0.29
(1,2888)	1:70:A:ILE:H	1:69:A:VAL:HG23	6	0.29
(1,2888)	1:70:A:ILE:H	1:69:A:VAL:HG21	7	0.29
(1,2888)	1:70:A:ILE:H	1:69:A:VAL:HG22	7	0.29
(1,2888)	1:70:A:ILE:H	1:69:A:VAL:HG23	7	0.29
(1,2794)	1:81:A:ASN:H	1:80:A:LEU:HB3	7	0.29
(1,2736)	1:79:A:VAL:HG21	1:87:A:ASN:H	6	0.29
(1,2736)	1:79:A:VAL:HG22	1:87:A:ASN:H	6	0.29
(1,2736)	1:79:A:VAL:HG23	1:87:A:ASN:H	6	0.29
(1,2675)	1:92:A:GLU:H	1:91:A:LEU:HG	5	0.29
(1,2625)	1:97:A:LYS:H	1:99:A:PHE:H	7	0.29
(1,2622)	1:97:A:LYS:H	1:97:A:LYS:HG3	5	0.29
(1,2608)	1:97:A:LYS:HB3	1:98:A:THR:H	7	0.29
(1,2590)	1:100:A:SER:H	1:99:A:PHE:HB2	8	0.29
(1,2477)	1:110:A:LEU:HB3	1:111:A:LYS:H	1	0.29
(1,2283)	1:68:A:THR:HG21	1:21:A:VAL:HG11	8	0.29
(1,2283)	1:68:A:THR:HG21	1:21:A:VAL:HG12	8	0.29
(1,2283)	1:68:A:THR:HG21	1:21:A:VAL:HG13	8	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2283)	1:68:A:THR:HG22	1:21:A:VAL:HG11	8	0.29
(1,2283)	1:68:A:THR:HG22	1:21:A:VAL:HG12	8	0.29
(1,2283)	1:68:A:THR:HG22	1:21:A:VAL:HG13	8	0.29
(1,2283)	1:68:A:THR:HG23	1:21:A:VAL:HG11	8	0.29
(1,2283)	1:68:A:THR:HG23	1:21:A:VAL:HG12	8	0.29
(1,2283)	1:68:A:THR:HG23	1:21:A:VAL:HG13	8	0.29
(1,2258)	1:23:A:ILE:HD11	1:32:A:TYR:HA	2	0.29
(1,2258)	1:23:A:ILE:HD12	1:32:A:TYR:HA	2	0.29
(1,2258)	1:23:A:ILE:HD13	1:32:A:TYR:HA	2	0.29
(1,2240)	1:79:A:VAL:HG11	1:123:A:ILE:HG21	6	0.29
(1,2240)	1:79:A:VAL:HG11	1:123:A:ILE:HG22	6	0.29
(1,2240)	1:79:A:VAL:HG11	1:123:A:ILE:HG23	6	0.29
(1,2240)	1:79:A:VAL:HG12	1:123:A:ILE:HG21	6	0.29
(1,2240)	1:79:A:VAL:HG12	1:123:A:ILE:HG22	6	0.29
(1,2240)	1:79:A:VAL:HG12	1:123:A:ILE:HG23	6	0.29
(1,2240)	1:79:A:VAL:HG13	1:123:A:ILE:HG21	6	0.29
(1,2240)	1:79:A:VAL:HG13	1:123:A:ILE:HG22	6	0.29
(1,2240)	1:79:A:VAL:HG13	1:123:A:ILE:HG23	6	0.29
(1,2240)	1:79:A:VAL:HG11	1:123:A:ILE:HG21	9	0.29
(1,2240)	1:79:A:VAL:HG11	1:123:A:ILE:HG22	9	0.29
(1,2240)	1:79:A:VAL:HG11	1:123:A:ILE:HG23	9	0.29
(1,2240)	1:79:A:VAL:HG12	1:123:A:ILE:HG21	9	0.29
(1,2240)	1:79:A:VAL:HG12	1:123:A:ILE:HG22	9	0.29
(1,2240)	1:79:A:VAL:HG12	1:123:A:ILE:HG23	9	0.29
(1,2240)	1:79:A:VAL:HG13	1:123:A:ILE:HG21	9	0.29
(1,2240)	1:79:A:VAL:HG13	1:123:A:ILE:HG22	9	0.29
(1,2240)	1:79:A:VAL:HG13	1:123:A:ILE:HG23	9	0.29
(1,2238)	1:76:A:ARG:HD2	1:90:A:THR:HA	4	0.29
(1,2178)	1:104:A:VAL:HG21	1:112:A:GLY:HA3	5	0.29
(1,2178)	1:104:A:VAL:HG22	1:112:A:GLY:HA3	5	0.29
(1,2178)	1:104:A:VAL:HG23	1:112:A:GLY:HA3	5	0.29
(1,2161)	1:115:A:VAL:HG21	1:118:A:ILE:HG13	7	0.29
(1,2161)	1:115:A:VAL:HG22	1:118:A:ILE:HG13	7	0.29
(1,2161)	1:115:A:VAL:HG23	1:118:A:ILE:HG13	7	0.29
(1,2137)	1:119:A:GLN:HG2	1:100:A:SER:HB2	5	0.29
(1,1970)	1:119:A:GLN:HA	1:119:A:GLN:HB2	4	0.29
(1,1970)	1:119:A:GLN:HA	1:119:A:GLN:HB2	5	0.29
(1,1936)	1:116:A:GLU:H	1:116:A:GLU:HG2	4	0.29
(1,1898)	1:115:A:VAL:H	1:114:A:ARG:HG2	4	0.29
(1,1882)	1:113:A:ARG:HA	1:113:A:ARG:HD2	3	0.29
(1,1765)	1:105:A:ILE:HG21	1:87:A:ASN:HB2	4	0.29
(1,1765)	1:105:A:ILE:HG22	1:87:A:ASN:HB2	4	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1765)	1:105:A:ILE:HG23	1:87:A:ASN:HB2	4	0.29
(1,1762)	1:105:A:ILE:HG21	1:106:A:GLU:HA	3	0.29
(1,1762)	1:105:A:ILE:HG22	1:106:A:GLU:HA	3	0.29
(1,1762)	1:105:A:ILE:HG23	1:106:A:GLU:HA	3	0.29
(1,1682)	1:47:A:THR:HG21	1:43:A:ILE:HB	3	0.29
(1,1682)	1:47:A:THR:HG22	1:43:A:ILE:HB	3	0.29
(1,1682)	1:47:A:THR:HG23	1:43:A:ILE:HB	3	0.29
(1,1657)	1:101:A:ALA:HB1	1:95:A:ASN:H	1	0.29
(1,1657)	1:101:A:ALA:HB2	1:95:A:ASN:H	1	0.29
(1,1657)	1:101:A:ALA:HB3	1:95:A:ASN:H	1	0.29
(1,1629)	1:99:A:PHE:H	1:99:A:PHE:HB3	2	0.29
(1,1629)	1:99:A:PHE:H	1:99:A:PHE:HB3	7	0.29
(1,1448)	1:85:A:ARG:HD2	1:81:A:ASN:HA	4	0.29
(1,1351)	1:48:A:ALA:HB1	1:42:A:VAL:HA	9	0.29
(1,1351)	1:48:A:ALA:HB2	1:42:A:VAL:HA	9	0.29
(1,1351)	1:48:A:ALA:HB3	1:42:A:VAL:HA	9	0.29
(1,1263)	1:76:A:ARG:HG3	1:76:A:ARG:HA	10	0.29
(1,970)	1:61:A:LEU:HB2	1:62:A:ASP:H	8	0.29
(1,856)	1:38:A:ILE:H	1:53:A:ILE:HD11	10	0.29
(1,856)	1:38:A:ILE:H	1:53:A:ILE:HD12	10	0.29
(1,856)	1:38:A:ILE:H	1:53:A:ILE:HD13	10	0.29
(1,855)	1:37:A:ALA:H	1:53:A:ILE:HD11	5	0.29
(1,855)	1:37:A:ALA:H	1:53:A:ILE:HD12	5	0.29
(1,855)	1:37:A:ALA:H	1:53:A:ILE:HD13	5	0.29
(1,855)	1:37:A:ALA:H	1:53:A:ILE:HD11	6	0.29
(1,855)	1:37:A:ALA:H	1:53:A:ILE:HD12	6	0.29
(1,855)	1:37:A:ALA:H	1:53:A:ILE:HD13	6	0.29
(1,704)	1:44:A:ASP:H	1:43:A:ILE:HG21	8	0.29
(1,704)	1:44:A:ASP:H	1:43:A:ILE:HG22	8	0.29
(1,704)	1:44:A:ASP:H	1:43:A:ILE:HG23	8	0.29
(1,662)	1:45:A:LYS:HA	1:42:A:VAL:HG21	8	0.29
(1,662)	1:45:A:LYS:HA	1:42:A:VAL:HG22	8	0.29
(1,662)	1:45:A:LYS:HA	1:42:A:VAL:HG23	8	0.29
(1,629)	1:104:A:VAL:HB	1:104:A:VAL:H	9	0.29
(1,621)	1:41:A:GLU:HA	1:41:A:GLU:HG3	4	0.29
(1,619)	1:42:A:VAL:HG11	1:41:A:GLU:HA	2	0.29
(1,619)	1:42:A:VAL:HG12	1:41:A:GLU:HA	2	0.29
(1,619)	1:42:A:VAL:HG13	1:41:A:GLU:HA	2	0.29
(1,588)	1:53:A:ILE:HA	1:38:A:ILE:HG12	9	0.29
(1,585)	1:127:A:ALA:HA	1:38:A:ILE:HD11	8	0.29
(1,585)	1:127:A:ALA:HA	1:38:A:ILE:HD12	8	0.29
(1,585)	1:127:A:ALA:HA	1:38:A:ILE:HD13	8	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,571)	1:39:A:VAL:HG11	1:50:A:VAL:HA	4	0.29
(1,571)	1:39:A:VAL:HG12	1:50:A:VAL:HA	4	0.29
(1,571)	1:39:A:VAL:HG13	1:50:A:VAL:HA	4	0.29
(1,558)	1:48:A:ALA:HB1	1:39:A:VAL:HB	3	0.29
(1,558)	1:48:A:ALA:HB2	1:39:A:VAL:HB	3	0.29
(1,558)	1:48:A:ALA:HB3	1:39:A:VAL:HB	3	0.29
(1,558)	1:48:A:ALA:HB1	1:39:A:VAL:HB	4	0.29
(1,558)	1:48:A:ALA:HB2	1:39:A:VAL:HB	4	0.29
(1,558)	1:48:A:ALA:HB3	1:39:A:VAL:HB	4	0.29
(1,399)	1:66:A:LEU:HA	1:24:A:ILE:HG21	7	0.29
(1,399)	1:66:A:LEU:HA	1:24:A:ILE:HG22	7	0.29
(1,399)	1:66:A:LEU:HA	1:24:A:ILE:HG23	7	0.29
(1,150)	1:48:A:ALA:H	1:15:A:LEU:HD21	10	0.29
(1,150)	1:48:A:ALA:H	1:15:A:LEU:HD22	10	0.29
(1,150)	1:48:A:ALA:H	1:15:A:LEU:HD23	10	0.29
(1,29)	1:7:A:ARG:HD3	1:7:A:ARG:HB2	7	0.29
(1,1)	1:107:A:THR:HB	1:108:A:GLY:H	2	0.29
(3,1210)	1:104:A:VAL:HG11	1:104:A:VAL:HG22	1	0.28
(3,1210)	1:104:A:VAL:HG11	1:104:A:VAL:HG22	3	0.28
(3,1210)	1:104:A:VAL:HG11	1:104:A:VAL:HG23	4	0.28
(3,1210)	1:104:A:VAL:HG12	1:104:A:VAL:HG22	8	0.28
(3,1210)	1:104:A:VAL:HG13	1:104:A:VAL:HG22	9	0.28
(3,1164)	1:28:A:LEU:HD21	1:29:A:GLY:H	9	0.28
(3,1142)	1:17:A:PRO:HD2	1:16:A:GLN:HG2	7	0.28
(3,1135)	1:79:A:VAL:H	1:123:A:ILE:HG23	3	0.28
(3,1030)	1:36:A:LYS:H	1:37:A:ALA:H	1	0.28
(3,970)	1:100:A:SER:H	1:101:A:ALA:H	1	0.28
(3,970)	1:100:A:SER:H	1:101:A:ALA:H	4	0.28
(3,936)	1:77:A:ILE:HG13	1:103:A:ILE:HB	10	0.28
(3,885)	1:69:A:VAL:HG22	1:69:A:VAL:HB	6	0.28
(3,885)	1:69:A:VAL:HG22	1:69:A:VAL:HB	7	0.28
(3,751)	1:43:A:ILE:HG22	1:43:A:ILE:H	8	0.28
(3,634)	1:103:A:ILE:HG12	1:104:A:VAL:H	8	0.28
(3,560)	1:31:A:LYS:HG3	1:33:A:HIS:H	8	0.28
(3,471)	1:127:A:ALA:HB3	1:20:A:ILE:H	8	0.28
(3,426)	1:119:A:GLN:HA	1:100:A:SER:H	7	0.28
(3,378)	1:89:A:GLY:H	1:103:A:ILE:HD12	2	0.28
(3,304)	1:94:A:ILE:HB	1:70:A:ILE:HG22	7	0.28
(3,303)	1:102:A:THR:HA	1:103:A:ILE:HD11	1	0.28
(3,296)	1:91:A:LEU:HD23	1:91:A:LEU:HG	1	0.28
(3,280)	1:112:A:GLY:H	1:111:A:LYS:HG3	6	0.28
(3,257)	1:53:A:ILE:H	1:53:A:ILE:HD12	8	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,626)	1:48:A:ALA:H	1:60:A:LYS:HE3	10	0.28
(2,593)	1:66:A:LEU:HB3	1:14:A:TRP:HE1	7	0.28
(1,3855)	1:120:A:TYR:H	1:120:A:TYR:HE1	2	0.28
(1,3855)	1:120:A:TYR:H	1:120:A:TYR:HE2	2	0.28
(1,3753)	1:34:A:LYS:HD2	1:33:A:HIS:HE1	8	0.28
(1,3726)	1:95:A:ASN:HD21	1:98:A:THR:HB	7	0.28
(1,3712)	1:87:A:ASN:HD21	1:84:A:TYR:H	2	0.28
(1,3710)	1:82:A:GLY:H	1:85:A:ARG:HA	6	0.28
(1,3676)	1:49:A:VAL:H	1:43:A:ILE:HB	4	0.28
(1,3547)	1:84:A:TYR:HB2	1:79:A:VAL:H	7	0.28
(1,3453)	1:14:A:TRP:HA	1:16:A:GLN:HE22	5	0.28
(1,3126)	1:44:A:ASP:H	1:47:A:THR:HA	5	0.28
(1,3077)	1:49:A:VAL:H	1:43:A:ILE:H	4	0.28
(1,2888)	1:70:A:ILE:H	1:69:A:VAL:HG21	2	0.28
(1,2888)	1:70:A:ILE:H	1:69:A:VAL:HG22	2	0.28
(1,2888)	1:70:A:ILE:H	1:69:A:VAL:HG23	2	0.28
(1,2816)	1:85:A:ARG:HA	1:79:A:VAL:H	3	0.28
(1,2807)	1:79:A:VAL:HG11	1:80:A:LEU:H	10	0.28
(1,2807)	1:79:A:VAL:HG12	1:80:A:LEU:H	10	0.28
(1,2807)	1:79:A:VAL:HG13	1:80:A:LEU:H	10	0.28
(1,2749)	1:85:A:ARG:HG3	1:86:A:GLY:H	5	0.28
(1,2747)	1:85:A:ARG:HB3	1:86:A:GLY:H	4	0.28
(1,2736)	1:79:A:VAL:HG21	1:87:A:ASN:H	9	0.28
(1,2736)	1:79:A:VAL:HG22	1:87:A:ASN:H	9	0.28
(1,2736)	1:79:A:VAL:HG23	1:87:A:ASN:H	9	0.28
(1,2590)	1:100:A:SER:H	1:99:A:PHE:HB2	5	0.28
(1,2473)	1:105:A:ILE:HD11	1:111:A:LYS:H	1	0.28
(1,2473)	1:105:A:ILE:HD12	1:111:A:LYS:H	1	0.28
(1,2473)	1:105:A:ILE:HD13	1:111:A:LYS:H	1	0.28
(1,2467)	1:113:A:ARG:H	1:105:A:ILE:HG13	10	0.28
(1,2447)	1:115:A:VAL:HB	1:115:A:VAL:H	2	0.28
(1,2436)	1:115:A:VAL:HB	1:116:A:GLU:H	8	0.28
(1,2418)	1:118:A:ILE:HG13	1:118:A:ILE:H	3	0.28
(1,2358)	1:122:A:ASP:H	1:121:A:GLU:HB2	1	0.28
(1,2275)	1:21:A:VAL:HG21	1:22:A:LYS:H	1	0.28
(1,2275)	1:21:A:VAL:HG22	1:22:A:LYS:H	1	0.28
(1,2275)	1:21:A:VAL:HG23	1:22:A:LYS:H	1	0.28
(1,2244)	1:15:A:LEU:HB2	1:48:A:ALA:HB1	3	0.28
(1,2244)	1:15:A:LEU:HB2	1:48:A:ALA:HB2	3	0.28
(1,2244)	1:15:A:LEU:HB2	1:48:A:ALA:HB3	3	0.28
(1,2197)	1:106:A:GLU:HB2	1:105:A:ILE:HA	6	0.28
(1,2161)	1:115:A:VAL:HG21	1:118:A:ILE:HG13	5	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2161)	1:115:A:VAL:HG22	1:118:A:ILE:HG13	5	0.28
(1,2161)	1:115:A:VAL:HG23	1:118:A:ILE:HG13	5	0.28
(1,2095)	1:127:A:ALA:HB1	1:18:A:GLU:HG2	4	0.28
(1,2095)	1:127:A:ALA:HB2	1:18:A:GLU:HG2	4	0.28
(1,2095)	1:127:A:ALA:HB3	1:18:A:GLU:HG2	4	0.28
(1,2071)	1:126:A:LEU:HB2	1:76:A:ARG:HB3	7	0.28
(1,2007)	1:78:A:LEU:H	1:123:A:ILE:HA	7	0.28
(1,1970)	1:119:A:GLN:HA	1:119:A:GLN:HB2	1	0.28
(1,1970)	1:119:A:GLN:HA	1:119:A:GLN:HB2	3	0.28
(1,1970)	1:119:A:GLN:HA	1:119:A:GLN:HB2	6	0.28
(1,1970)	1:119:A:GLN:HA	1:119:A:GLN:HB2	7	0.28
(1,1970)	1:119:A:GLN:HA	1:119:A:GLN:HB2	8	0.28
(1,1970)	1:119:A:GLN:HA	1:119:A:GLN:HB2	9	0.28
(1,1970)	1:119:A:GLN:HA	1:119:A:GLN:HB2	10	0.28
(1,1959)	1:118:A:ILE:HD11	1:122:A:ASP:HB2	5	0.28
(1,1959)	1:118:A:ILE:HD12	1:122:A:ASP:HB2	5	0.28
(1,1959)	1:118:A:ILE:HD13	1:122:A:ASP:HB2	5	0.28
(1,1936)	1:116:A:GLU:H	1:116:A:GLU:HG2	6	0.28
(1,1629)	1:99:A:PHE:H	1:99:A:PHE:HB3	1	0.28
(1,1629)	1:99:A:PHE:H	1:99:A:PHE:HB3	3	0.28
(1,1629)	1:99:A:PHE:H	1:99:A:PHE:HB3	9	0.28
(1,1629)	1:99:A:PHE:H	1:99:A:PHE:HB3	10	0.28
(1,1585)	1:94:A:ILE:HG21	1:101:A:ALA:HA	7	0.28
(1,1585)	1:94:A:ILE:HG22	1:101:A:ALA:HA	7	0.28
(1,1585)	1:94:A:ILE:HG23	1:101:A:ALA:HA	7	0.28
(1,1535)	1:93:A:SER:HA	1:91:A:LEU:HG	9	0.28
(1,1459)	1:87:A:ASN:H	1:87:A:ASN:HB3	6	0.28
(1,1351)	1:48:A:ALA:HB1	1:42:A:VAL:HA	6	0.28
(1,1351)	1:48:A:ALA:HB2	1:42:A:VAL:HA	6	0.28
(1,1351)	1:48:A:ALA:HB3	1:42:A:VAL:HA	6	0.28
(1,1321)	1:71:A:PRO:HG2	1:77:A:ILE:HG21	6	0.28
(1,1321)	1:71:A:PRO:HG2	1:77:A:ILE:HG22	6	0.28
(1,1321)	1:71:A:PRO:HG2	1:77:A:ILE:HG23	6	0.28
(1,1144)	1:68:A:THR:HA	1:69:A:VAL:HG11	3	0.28
(1,1144)	1:68:A:THR:HA	1:69:A:VAL:HG12	3	0.28
(1,1144)	1:68:A:THR:HA	1:69:A:VAL:HG13	3	0.28
(1,1104)	1:67:A:GLU:HA	1:67:A:GLU:HG2	1	0.28
(1,971)	1:65:A:HIS:HB3	1:61:A:LEU:HB2	7	0.28
(1,970)	1:61:A:LEU:HB2	1:62:A:ASP:H	2	0.28
(1,970)	1:61:A:LEU:HB2	1:62:A:ASP:H	7	0.28
(1,918)	1:60:A:LYS:HB2	1:59:A:LEU:HA	10	0.28
(1,889)	1:54:A:ASP:HB2	1:53:A:ILE:HG21	2	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,889)	1:54:A:ASP:HB2	1:53:A:ILE:HG22	2	0.28
(1,889)	1:54:A:ASP:HB2	1:53:A:ILE:HG23	2	0.28
(1,855)	1:37:A:ALA:H	1:53:A:ILE:HD11	4	0.28
(1,855)	1:37:A:ALA:H	1:53:A:ILE:HD12	4	0.28
(1,855)	1:37:A:ALA:H	1:53:A:ILE:HD13	4	0.28
(1,780)	1:15:A:LEU:HA	1:48:A:ALA:HB1	1	0.28
(1,780)	1:15:A:LEU:HA	1:48:A:ALA:HB2	1	0.28
(1,780)	1:15:A:LEU:HA	1:48:A:ALA:HB3	1	0.28
(1,763)	1:47:A:THR:HB	1:43:A:ILE:HG21	1	0.28
(1,763)	1:47:A:THR:HB	1:43:A:ILE:HG22	1	0.28
(1,763)	1:47:A:THR:HB	1:43:A:ILE:HG23	1	0.28
(1,662)	1:45:A:LYS:HA	1:42:A:VAL:HG21	9	0.28
(1,662)	1:45:A:LYS:HA	1:42:A:VAL:HG22	9	0.28
(1,662)	1:45:A:LYS:HA	1:42:A:VAL:HG23	9	0.28
(1,584)	1:127:A:ALA:HB1	1:38:A:ILE:HD11	7	0.28
(1,584)	1:127:A:ALA:HB1	1:38:A:ILE:HD12	7	0.28
(1,584)	1:127:A:ALA:HB1	1:38:A:ILE:HD13	7	0.28
(1,584)	1:127:A:ALA:HB2	1:38:A:ILE:HD11	7	0.28
(1,584)	1:127:A:ALA:HB2	1:38:A:ILE:HD12	7	0.28
(1,584)	1:127:A:ALA:HB2	1:38:A:ILE:HD13	7	0.28
(1,584)	1:127:A:ALA:HB3	1:38:A:ILE:HD11	7	0.28
(1,584)	1:127:A:ALA:HB3	1:38:A:ILE:HD12	7	0.28
(1,584)	1:127:A:ALA:HB3	1:38:A:ILE:HD13	7	0.28
(1,571)	1:39:A:VAL:HG11	1:50:A:VAL:HA	3	0.28
(1,571)	1:39:A:VAL:HG12	1:50:A:VAL:HA	3	0.28
(1,571)	1:39:A:VAL:HG13	1:50:A:VAL:HA	3	0.28
(1,548)	1:39:A:VAL:HA	1:50:A:VAL:HB	4	0.28
(1,440)	1:111:A:LYS:HD2	1:107:A:THR:HA	8	0.28
(1,266)	1:127:A:ALA:H	1:19:A:ILE:HG21	5	0.28
(1,266)	1:127:A:ALA:H	1:19:A:ILE:HG22	5	0.28
(1,266)	1:127:A:ALA:H	1:19:A:ILE:HG23	5	0.28
(1,169)	1:80:A:LEU:HD21	1:16:A:GLN:HG3	5	0.28
(1,169)	1:80:A:LEU:HD22	1:16:A:GLN:HG3	5	0.28
(1,169)	1:80:A:LEU:HD23	1:16:A:GLN:HG3	5	0.28
(1,143)	1:15:A:LEU:HD11	1:63:A:GLN:HB2	4	0.28
(1,143)	1:15:A:LEU:HD12	1:63:A:GLN:HB2	4	0.28
(1,143)	1:15:A:LEU:HD13	1:63:A:GLN:HB2	4	0.28
(1,143)	1:15:A:LEU:HD11	1:63:A:GLN:HB2	5	0.28
(1,143)	1:15:A:LEU:HD12	1:63:A:GLN:HB2	5	0.28
(1,143)	1:15:A:LEU:HD13	1:63:A:GLN:HB2	5	0.28
(1,143)	1:15:A:LEU:HD11	1:63:A:GLN:HB2	7	0.28
(1,143)	1:15:A:LEU:HD12	1:63:A:GLN:HB2	7	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,143)	1:15:A:LEU:HD13	1:63:A:GLN:HB2	7	0.28
(3,1174)	1:84:A:TYR:HE2	1:113:A:ARG:HD2	7	0.27
(3,1173)	1:84:A:TYR:HE1	1:113:A:ARG:HG2	3	0.27
(3,1166)	1:118:A:ILE:HG13	1:103:A:ILE:H	7	0.27
(3,1164)	1:26:A:LYS:HG3	1:29:A:GLY:H	1	0.27
(3,1155)	1:118:A:ILE:HG22	1:119:A:GLN:H	6	0.27
(3,1154)	1:6:A:LYS:HB3	1:7:A:ARG:H	4	0.27
(3,1087)	1:61:A:LEU:HD21	1:59:A:LEU:HB3	8	0.27
(3,1087)	1:61:A:LEU:HD22	1:59:A:LEU:HB3	8	0.27
(3,1087)	1:61:A:LEU:HD23	1:59:A:LEU:HB3	8	0.27
(3,970)	1:100:A:SER:H	1:101:A:ALA:H	5	0.27
(3,970)	1:100:A:SER:H	1:101:A:ALA:H	7	0.27
(3,928)	1:94:A:ILE:HG23	1:91:A:LEU:HA	5	0.27
(3,855)	1:17:A:PRO:HD3	1:16:A:GLN:HB2	3	0.27
(3,751)	1:43:A:ILE:HG22	1:43:A:ILE:H	3	0.27
(3,743)	1:37:A:ALA:HB3	1:50:A:VAL:HA	8	0.27
(3,676)	1:108:A:GLY:H	1:107:A:THR:HG23	4	0.27
(3,646)	1:85:A:ARG:H	1:83:A:GLY:H	10	0.27
(3,555)	1:12:A:ASP:HB2	1:46:A:TYR:HE2	3	0.27
(3,441)	1:23:A:ILE:H	1:22:A:LYS:HG3	5	0.27
(3,423)	1:61:A:LEU:HD13	1:25:A:THR:H	4	0.27
(3,423)	1:61:A:LEU:HD12	1:25:A:THR:H	9	0.27
(3,257)	1:53:A:ILE:H	1:53:A:ILE:HD12	1	0.27
(3,223)	1:99:A:PHE:H	1:99:A:PHE:HB3	1	0.27
(3,223)	1:99:A:PHE:H	1:99:A:PHE:HB3	2	0.27
(3,223)	1:99:A:PHE:H	1:99:A:PHE:HB3	7	0.27
(3,109)	1:4:A:GLU:HB2	1:4:A:GLU:HG3	10	0.27
(3,21)	1:126:A:LEU:HD22	1:88:A:GLU:HG2	4	0.27
(2,626)	1:48:A:ALA:H	1:60:A:LYS:HE3	5	0.27
(2,531)	1:69:A:VAL:H	1:71:A:PRO:HD2	1	0.27
(2,520)	1:78:A:LEU:H	1:88:A:GLU:HG2	1	0.27
(2,393)	1:73:A:PRO:HG2	1:70:A:ILE:HG21	7	0.27
(2,393)	1:73:A:PRO:HG2	1:70:A:ILE:HG22	7	0.27
(2,393)	1:73:A:PRO:HG2	1:70:A:ILE:HG23	7	0.27
(1,3866)	1:120:A:TYR:HE1	1:99:A:PHE:H	6	0.27
(1,3866)	1:120:A:TYR:HE2	1:99:A:PHE:H	6	0.27
(1,3855)	1:120:A:TYR:H	1:120:A:TYR:HE1	3	0.27
(1,3855)	1:120:A:TYR:H	1:120:A:TYR:HE2	3	0.27
(1,3840)	1:46:A:TYR:HE1	1:13:A:TYR:HB2	7	0.27
(1,3840)	1:46:A:TYR:HE2	1:13:A:TYR:HB2	7	0.27
(1,3714)	1:84:A:TYR:HD1	1:87:A:ASN:HD22	10	0.27
(1,3714)	1:84:A:TYR:HD2	1:87:A:ASN:HD22	10	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3710)	1:82:A:GLY:H	1:85:A:ARG:HA	10	0.27
(1,3499)	1:37:A:ALA:H	1:36:A:LYS:HE2	1	0.27
(1,3412)	1:3:A:GLU:HB2	1:3:A:GLU:H	5	0.27
(1,3392)	1:11:A:THR:H	1:13:A:TYR:H	6	0.27
(1,3176)	1:51:A:LYS:HB3	1:40:A:LYS:H	5	0.27
(1,3089)	1:48:A:ALA:H	1:63:A:GLN:HA	7	0.27
(1,3089)	1:48:A:ALA:H	1:63:A:GLN:HA	8	0.27
(1,3000)	1:59:A:LEU:HD11	1:60:A:LYS:H	4	0.27
(1,3000)	1:59:A:LEU:HD12	1:60:A:LYS:H	4	0.27
(1,3000)	1:59:A:LEU:HD13	1:60:A:LYS:H	4	0.27
(1,2888)	1:70:A:ILE:H	1:69:A:VAL:HG21	9	0.27
(1,2888)	1:70:A:ILE:H	1:69:A:VAL:HG22	9	0.27
(1,2888)	1:70:A:ILE:H	1:69:A:VAL:HG23	9	0.27
(1,2841)	1:111:A:LYS:HE3	1:112:A:GLY:H	3	0.27
(1,2807)	1:79:A:VAL:HG11	1:80:A:LEU:H	1	0.27
(1,2807)	1:79:A:VAL:HG12	1:80:A:LEU:H	1	0.27
(1,2807)	1:79:A:VAL:HG13	1:80:A:LEU:H	1	0.27
(1,2807)	1:79:A:VAL:HG11	1:80:A:LEU:H	8	0.27
(1,2807)	1:79:A:VAL:HG12	1:80:A:LEU:H	8	0.27
(1,2807)	1:79:A:VAL:HG13	1:80:A:LEU:H	8	0.27
(1,2807)	1:79:A:VAL:HG11	1:80:A:LEU:H	9	0.27
(1,2807)	1:79:A:VAL:HG12	1:80:A:LEU:H	9	0.27
(1,2807)	1:79:A:VAL:HG13	1:80:A:LEU:H	9	0.27
(1,2794)	1:81:A:ASN:H	1:80:A:LEU:HB3	1	0.27
(1,2781)	1:85:A:ARG:HD2	1:82:A:GLY:H	2	0.27
(1,2765)	1:104:A:VAL:HA	1:90:A:THR:H	3	0.27
(1,2732)	1:84:A:TYR:HB2	1:87:A:ASN:H	3	0.27
(1,2658)	1:91:A:LEU:HD11	1:94:A:ILE:H	6	0.27
(1,2658)	1:91:A:LEU:HD12	1:94:A:ILE:H	6	0.27
(1,2658)	1:91:A:LEU:HD13	1:94:A:ILE:H	6	0.27
(1,2634)	1:96:A:GLU:HG3	1:96:A:GLU:H	4	0.27
(1,2634)	1:96:A:GLU:HG3	1:96:A:GLU:H	9	0.27
(1,2633)	1:96:A:GLU:H	1:95:A:ASN:HB3	1	0.27
(1,2633)	1:96:A:GLU:H	1:95:A:ASN:HB3	2	0.27
(1,2494)	1:108:A:GLY:H	1:111:A:LYS:HE3	3	0.27
(1,2481)	1:106:A:GLU:HA	1:111:A:LYS:H	8	0.27
(1,2477)	1:110:A:LEU:HB3	1:111:A:LYS:H	3	0.27
(1,2454)	1:113:A:ARG:HD2	1:114:A:ARG:H	1	0.27
(1,2442)	1:103:A:ILE:H	1:116:A:GLU:H	7	0.27
(1,2436)	1:115:A:VAL:HB	1:116:A:GLU:H	7	0.27
(1,2275)	1:21:A:VAL:HG21	1:22:A:LYS:H	9	0.27
(1,2275)	1:21:A:VAL:HG22	1:22:A:LYS:H	9	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2275)	1:21:A:VAL:HG23	1:22:A:LYS:H	9	0.27
(1,2246)	1:13:A:TYR:HB3	1:45:A:LYS:HD3	4	0.27
(1,2238)	1:76:A:ARG:HD2	1:90:A:THR:HA	2	0.27
(1,2205)	1:49:A:VAL:HG21	1:41:A:GLU:H	10	0.27
(1,2205)	1:49:A:VAL:HG22	1:41:A:GLU:H	10	0.27
(1,2205)	1:49:A:VAL:HG23	1:41:A:GLU:H	10	0.27
(1,2171)	1:113:A:ARG:HB3	1:105:A:ILE:HD11	6	0.27
(1,2171)	1:113:A:ARG:HB3	1:105:A:ILE:HD12	6	0.27
(1,2171)	1:113:A:ARG:HB3	1:105:A:ILE:HD13	6	0.27
(1,2155)	1:118:A:ILE:HA	1:101:A:ALA:H	7	0.27
(1,1970)	1:119:A:GLN:HA	1:119:A:GLN:HB2	2	0.27
(1,1938)	1:116:A:GLU:H	1:116:A:GLU:HG2	7	0.27
(1,1882)	1:113:A:ARG:HA	1:113:A:ARG:HD2	1	0.27
(1,1765)	1:105:A:ILE:HG21	1:87:A:ASN:HB2	5	0.27
(1,1765)	1:105:A:ILE:HG22	1:87:A:ASN:HB2	5	0.27
(1,1765)	1:105:A:ILE:HG23	1:87:A:ASN:HB2	5	0.27
(1,1655)	1:94:A:ILE:HG21	1:101:A:ALA:HA	3	0.27
(1,1655)	1:94:A:ILE:HG22	1:101:A:ALA:HA	3	0.27
(1,1655)	1:94:A:ILE:HG23	1:101:A:ALA:HA	3	0.27
(1,1629)	1:99:A:PHE:H	1:99:A:PHE:HB3	4	0.27
(1,1629)	1:99:A:PHE:H	1:99:A:PHE:HB3	6	0.27
(1,1585)	1:94:A:ILE:HG21	1:101:A:ALA:HA	2	0.27
(1,1585)	1:94:A:ILE:HG22	1:101:A:ALA:HA	2	0.27
(1,1585)	1:94:A:ILE:HG23	1:101:A:ALA:HA	2	0.27
(1,1526)	1:92:A:GLU:H	1:91:A:LEU:HG	4	0.27
(1,1338)	1:79:A:VAL:HG11	1:79:A:VAL:HA	7	0.27
(1,1338)	1:79:A:VAL:HG12	1:79:A:VAL:HA	7	0.27
(1,1338)	1:79:A:VAL:HG13	1:79:A:VAL:HA	7	0.27
(1,1338)	1:79:A:VAL:HG11	1:79:A:VAL:HA	10	0.27
(1,1338)	1:79:A:VAL:HG12	1:79:A:VAL:HA	10	0.27
(1,1338)	1:79:A:VAL:HG13	1:79:A:VAL:HA	10	0.27
(1,1277)	1:97:A:LYS:HB3	1:98:A:THR:H	3	0.27
(1,1256)	1:90:A:THR:HG21	1:74:A:GLY:HA3	3	0.27
(1,1256)	1:90:A:THR:HG22	1:74:A:GLY:HA3	3	0.27
(1,1256)	1:90:A:THR:HG23	1:74:A:GLY:HA3	3	0.27
(1,1144)	1:68:A:THR:HA	1:69:A:VAL:HG11	9	0.27
(1,1144)	1:68:A:THR:HA	1:69:A:VAL:HG12	9	0.27
(1,1144)	1:68:A:THR:HA	1:69:A:VAL:HG13	9	0.27
(1,957)	1:60:A:LYS:HB3	1:59:A:LEU:HA	3	0.27
(1,832)	1:52:A:MET:H	1:52:A:MET:HG2	6	0.27
(1,817)	1:51:A:LYS:HG2	1:56:A:GLY:HA3	8	0.27
(1,787)	1:49:A:VAL:HG11	1:58:A:LYS:HG2	10	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,787)	1:49:A:VAL:HG12	1:58:A:LYS:HG2	10	0.27
(1,787)	1:49:A:VAL:HG13	1:58:A:LYS:HG2	10	0.27
(1,780)	1:15:A:LEU:HA	1:48:A:ALA:HB1	10	0.27
(1,780)	1:15:A:LEU:HA	1:48:A:ALA:HB2	10	0.27
(1,780)	1:15:A:LEU:HA	1:48:A:ALA:HB3	10	0.27
(1,699)	1:43:A:ILE:HG12	1:43:A:ILE:HA	5	0.27
(1,660)	1:15:A:LEU:H	1:42:A:VAL:HG21	9	0.27
(1,660)	1:15:A:LEU:H	1:42:A:VAL:HG22	9	0.27
(1,660)	1:15:A:LEU:H	1:42:A:VAL:HG23	9	0.27
(1,659)	1:45:A:LYS:H	1:42:A:VAL:HG21	4	0.27
(1,659)	1:45:A:LYS:H	1:42:A:VAL:HG22	4	0.27
(1,659)	1:45:A:LYS:H	1:42:A:VAL:HG23	4	0.27
(1,629)	1:104:A:VAL:HB	1:104:A:VAL:H	4	0.27
(1,565)	1:17:A:PRO:HA	1:39:A:VAL:HG21	6	0.27
(1,565)	1:17:A:PRO:HA	1:39:A:VAL:HG22	6	0.27
(1,565)	1:17:A:PRO:HA	1:39:A:VAL:HG23	6	0.27
(1,563)	1:39:A:VAL:HG21	1:19:A:ILE:H	5	0.27
(1,563)	1:39:A:VAL:HG22	1:19:A:ILE:H	5	0.27
(1,563)	1:39:A:VAL:HG23	1:19:A:ILE:H	5	0.27
(1,531)	1:53:A:ILE:H	1:37:A:ALA:HB1	6	0.27
(1,531)	1:53:A:ILE:H	1:37:A:ALA:HB2	6	0.27
(1,531)	1:53:A:ILE:H	1:37:A:ALA:HB3	6	0.27
(3,1174)	1:84:A:TYR:HE2	1:113:A:ARG:HD2	9	0.26
(3,1157)	1:80:A:LEU:HD13	1:14:A:TRP:HZ3	2	0.26
(3,1074)	1:78:A:LEU:H	1:77:A:ILE:HD11	8	0.26
(3,1030)	1:36:A:LYS:H	1:37:A:ALA:H	2	0.26
(3,993)	1:58:A:LYS:HG3	1:50:A:VAL:H	5	0.26
(3,970)	1:100:A:SER:H	1:101:A:ALA:H	9	0.26
(3,951)	1:124:A:SER:H	1:123:A:ILE:HG23	3	0.26
(3,838)	1:53:A:ILE:H	1:52:A:MET:H	3	0.26
(3,838)	1:52:A:MET:H	1:59:A:LEU:H	10	0.26
(3,820)	1:117:A:GLY:H	1:116:A:GLU:HG2	6	0.26
(3,815)	1:123:A:ILE:HG12	1:123:A:ILE:HA	10	0.26
(3,735)	1:115:A:VAL:HG13	1:103:A:ILE:HD11	5	0.26
(3,662)	1:120:A:TYR:HA	1:120:A:TYR:HB2	10	0.26
(3,640)	1:4:A:GLU:HA	1:5:A:LYS:H	9	0.26
(3,600)	1:20:A:ILE:HB	1:21:A:VAL:H	8	0.26
(3,567)	1:89:A:GLY:HA2	1:105:A:ILE:HD11	5	0.26
(3,567)	1:89:A:GLY:HA2	1:105:A:ILE:HD13	10	0.26
(3,537)	1:76:A:ARG:H	1:76:A:ARG:HD2	7	0.26
(3,485)	1:127:A:ALA:H	1:126:A:LEU:HB3	10	0.26
(3,399)	1:45:A:LYS:HG3	1:44:A:ASP:HA	4	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,303)	1:102:A:THR:HA	1:103:A:ILE:HD11	7	0.26
(3,223)	1:99:A:PHE:H	1:99:A:PHE:HB3	3	0.26
(3,223)	1:99:A:PHE:H	1:99:A:PHE:HB3	9	0.26
(3,223)	1:99:A:PHE:H	1:99:A:PHE:HB3	10	0.26
(3,153)	1:91:A:LEU:HD11	1:102:A:THR:H	7	0.26
(3,129)	1:77:A:ILE:HD11	1:123:A:ILE:HB	9	0.26
(3,128)	1:103:A:ILE:HG23	1:123:A:ILE:HG21	3	0.26
(3,109)	1:4:A:GLU:HB3	1:4:A:GLU:HG3	3	0.26
(3,109)	1:3:A:GLU:HB2	1:3:A:GLU:HG3	5	0.26
(3,109)	1:4:A:GLU:HB3	1:4:A:GLU:HG2	8	0.26
(2,617)	1:24:A:ILE:HA	1:33:A:HIS:H	6	0.26
(2,591)	1:11:A:THR:H	1:13:A:TYR:HD1	3	0.26
(2,591)	1:11:A:THR:H	1:13:A:TYR:HD2	3	0.26
(2,589)	1:82:A:GLY:HA3	1:11:A:THR:H	9	0.26
(2,362)	1:84:A:TYR:HB3	1:103:A:ILE:HG13	1	0.26
(1,3866)	1:120:A:TYR:HE1	1:99:A:PHE:H	8	0.26
(1,3866)	1:120:A:TYR:HE2	1:99:A:PHE:H	8	0.26
(1,3750)	1:14:A:TRP:HZ2	1:63:A:GLN:HB3	8	0.26
(1,3718)	1:87:A:ASN:HD21	1:79:A:VAL:HB	8	0.26
(1,3712)	1:87:A:ASN:HD21	1:84:A:TYR:H	3	0.26
(1,3670)	1:48:A:ALA:H	1:42:A:VAL:HA	7	0.26
(1,3592)	1:95:A:ASN:HA	1:95:A:ASN:HD22	1	0.26
(1,3591)	1:98:A:THR:HG21	1:95:A:ASN:HD21	3	0.26
(1,3591)	1:98:A:THR:HG22	1:95:A:ASN:HD21	3	0.26
(1,3591)	1:98:A:THR:HG23	1:95:A:ASN:HD21	3	0.26
(1,3422)	1:10:A:ARG:H	1:11:A:THR:HG21	1	0.26
(1,3422)	1:10:A:ARG:H	1:11:A:THR:HG22	1	0.26
(1,3422)	1:10:A:ARG:H	1:11:A:THR:HG23	1	0.26
(1,3392)	1:11:A:THR:H	1:13:A:TYR:H	9	0.26
(1,3391)	1:11:A:THR:H	1:81:A:ASN:HD22	5	0.26
(1,3368)	1:15:A:LEU:H	1:13:A:TYR:HB3	1	0.26
(1,3146)	1:42:A:VAL:HG21	1:43:A:ILE:H	4	0.26
(1,3146)	1:42:A:VAL:HG22	1:43:A:ILE:H	4	0.26
(1,3146)	1:42:A:VAL:HG23	1:43:A:ILE:H	4	0.26
(1,3146)	1:42:A:VAL:HG21	1:43:A:ILE:H	8	0.26
(1,3146)	1:42:A:VAL:HG22	1:43:A:ILE:H	8	0.26
(1,3146)	1:42:A:VAL:HG23	1:43:A:ILE:H	8	0.26
(1,3133)	1:44:A:ASP:H	1:43:A:ILE:HG12	8	0.26
(1,2985)	1:61:A:LEU:HB2	1:62:A:ASP:H	3	0.26
(1,2898)	1:69:A:VAL:H	1:69:A:VAL:HB	5	0.26
(1,2898)	1:69:A:VAL:H	1:69:A:VAL:HB	7	0.26
(1,2807)	1:79:A:VAL:HG11	1:80:A:LEU:H	3	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2807)	1:79:A:VAL:HG12	1:80:A:LEU:H	3	0.26
(1,2807)	1:79:A:VAL:HG13	1:80:A:LEU:H	3	0.26
(1,2747)	1:85:A:ARG:HB3	1:86:A:GLY:H	2	0.26
(1,2625)	1:97:A:LYS:H	1:99:A:PHE:H	3	0.26
(1,2590)	1:100:A:SER:H	1:99:A:PHE:HB2	2	0.26
(1,2590)	1:100:A:SER:H	1:99:A:PHE:HB2	9	0.26
(1,2481)	1:106:A:GLU:HA	1:111:A:LYS:H	5	0.26
(1,2447)	1:115:A:VAL:HB	1:115:A:VAL:H	7	0.26
(1,2436)	1:115:A:VAL:HB	1:116:A:GLU:H	2	0.26
(1,2436)	1:115:A:VAL:HB	1:116:A:GLU:H	9	0.26
(1,2382)	1:120:A:TYR:H	1:119:A:GLN:HB2	3	0.26
(1,2335)	1:68:A:THR:HB	1:125:A:LYS:H	2	0.26
(1,2275)	1:21:A:VAL:HG21	1:22:A:LYS:H	4	0.26
(1,2275)	1:21:A:VAL:HG22	1:22:A:LYS:H	4	0.26
(1,2275)	1:21:A:VAL:HG23	1:22:A:LYS:H	4	0.26
(1,2252)	1:40:A:LYS:HE3	1:40:A:LYS:HG3	5	0.26
(1,2240)	1:79:A:VAL:HG11	1:123:A:ILE:HG21	3	0.26
(1,2240)	1:79:A:VAL:HG11	1:123:A:ILE:HG22	3	0.26
(1,2240)	1:79:A:VAL:HG11	1:123:A:ILE:HG23	3	0.26
(1,2240)	1:79:A:VAL:HG12	1:123:A:ILE:HG21	3	0.26
(1,2240)	1:79:A:VAL:HG12	1:123:A:ILE:HG22	3	0.26
(1,2240)	1:79:A:VAL:HG12	1:123:A:ILE:HG23	3	0.26
(1,2240)	1:79:A:VAL:HG13	1:123:A:ILE:HG21	3	0.26
(1,2240)	1:79:A:VAL:HG13	1:123:A:ILE:HG22	3	0.26
(1,2240)	1:79:A:VAL:HG13	1:123:A:ILE:HG23	3	0.26
(1,2240)	1:79:A:VAL:HG11	1:123:A:ILE:HG21	8	0.26
(1,2240)	1:79:A:VAL:HG11	1:123:A:ILE:HG22	8	0.26
(1,2240)	1:79:A:VAL:HG11	1:123:A:ILE:HG23	8	0.26
(1,2240)	1:79:A:VAL:HG12	1:123:A:ILE:HG21	8	0.26
(1,2240)	1:79:A:VAL:HG12	1:123:A:ILE:HG22	8	0.26
(1,2240)	1:79:A:VAL:HG12	1:123:A:ILE:HG23	8	0.26
(1,2240)	1:79:A:VAL:HG13	1:123:A:ILE:HG21	8	0.26
(1,2240)	1:79:A:VAL:HG13	1:123:A:ILE:HG22	8	0.26
(1,2240)	1:79:A:VAL:HG13	1:123:A:ILE:HG23	8	0.26
(1,2211)	1:84:A:TYR:HE1	1:103:A:ILE:HD11	2	0.26
(1,2211)	1:84:A:TYR:HE1	1:103:A:ILE:HD12	2	0.26
(1,2211)	1:84:A:TYR:HE1	1:103:A:ILE:HD13	2	0.26
(1,2211)	1:84:A:TYR:HE2	1:103:A:ILE:HD11	2	0.26
(1,2211)	1:84:A:TYR:HE2	1:103:A:ILE:HD12	2	0.26
(1,2211)	1:84:A:TYR:HE2	1:103:A:ILE:HD13	2	0.26
(1,2178)	1:104:A:VAL:HG21	1:112:A:GLY:HA3	9	0.26
(1,2178)	1:104:A:VAL:HG22	1:112:A:GLY:HA3	9	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2178)	1:104:A:VAL:HG23	1:112:A:GLY:HA3	9	0.26
(1,2172)	1:113:A:ARG:HB3	1:105:A:ILE:HG21	10	0.26
(1,2172)	1:113:A:ARG:HB3	1:105:A:ILE:HG22	10	0.26
(1,2172)	1:113:A:ARG:HB3	1:105:A:ILE:HG23	10	0.26
(1,2148)	1:93:A:SER:H	1:91:A:LEU:HG	7	0.26
(1,2148)	1:93:A:SER:H	1:91:A:LEU:HG	8	0.26
(1,2124)	1:123:A:ILE:HD11	1:101:A:ALA:HA	1	0.26
(1,2124)	1:123:A:ILE:HD12	1:101:A:ALA:HA	1	0.26
(1,2124)	1:123:A:ILE:HD13	1:101:A:ALA:HA	1	0.26
(1,2032)	1:78:A:LEU:H	1:123:A:ILE:HG21	8	0.26
(1,2032)	1:78:A:LEU:H	1:123:A:ILE:HG22	8	0.26
(1,2032)	1:78:A:LEU:H	1:123:A:ILE:HG23	8	0.26
(1,1960)	1:118:A:ILE:HG13	1:118:A:ILE:H	2	0.26
(1,1960)	1:118:A:ILE:HG13	1:118:A:ILE:H	4	0.26
(1,1960)	1:118:A:ILE:HG13	1:118:A:ILE:H	10	0.26
(1,1882)	1:113:A:ARG:HA	1:113:A:ARG:HD2	9	0.26
(1,1526)	1:92:A:GLU:H	1:91:A:LEU:HG	2	0.26
(1,1434)	1:85:A:ARG:HA	1:81:A:ASN:HA	1	0.26
(1,1338)	1:79:A:VAL:HG11	1:79:A:VAL:HA	1	0.26
(1,1338)	1:79:A:VAL:HG12	1:79:A:VAL:HA	1	0.26
(1,1338)	1:79:A:VAL:HG13	1:79:A:VAL:HA	1	0.26
(1,1338)	1:79:A:VAL:HG11	1:79:A:VAL:HA	2	0.26
(1,1338)	1:79:A:VAL:HG12	1:79:A:VAL:HA	2	0.26
(1,1338)	1:79:A:VAL:HG13	1:79:A:VAL:HA	2	0.26
(1,1338)	1:79:A:VAL:HG11	1:79:A:VAL:HA	3	0.26
(1,1338)	1:79:A:VAL:HG12	1:79:A:VAL:HA	3	0.26
(1,1338)	1:79:A:VAL:HG13	1:79:A:VAL:HA	3	0.26
(1,1338)	1:79:A:VAL:HG11	1:79:A:VAL:HA	4	0.26
(1,1338)	1:79:A:VAL:HG12	1:79:A:VAL:HA	4	0.26
(1,1338)	1:79:A:VAL:HG13	1:79:A:VAL:HA	4	0.26
(1,1338)	1:79:A:VAL:HG11	1:79:A:VAL:HA	5	0.26
(1,1338)	1:79:A:VAL:HG12	1:79:A:VAL:HA	5	0.26
(1,1338)	1:79:A:VAL:HG13	1:79:A:VAL:HA	5	0.26
(1,1338)	1:79:A:VAL:HG11	1:79:A:VAL:HA	6	0.26
(1,1338)	1:79:A:VAL:HG12	1:79:A:VAL:HA	6	0.26
(1,1338)	1:79:A:VAL:HG13	1:79:A:VAL:HA	6	0.26
(1,1338)	1:79:A:VAL:HG11	1:79:A:VAL:HA	8	0.26
(1,1338)	1:79:A:VAL:HG12	1:79:A:VAL:HA	8	0.26
(1,1338)	1:79:A:VAL:HG13	1:79:A:VAL:HA	8	0.26
(1,1338)	1:79:A:VAL:HG11	1:79:A:VAL:HA	9	0.26
(1,1338)	1:79:A:VAL:HG12	1:79:A:VAL:HA	9	0.26
(1,1338)	1:79:A:VAL:HG13	1:79:A:VAL:HA	9	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,970)	1:61:A:LEU:HB2	1:62:A:ASP:H	5	0.26
(1,970)	1:61:A:LEU:HB2	1:62:A:ASP:H	6	0.26
(1,970)	1:61:A:LEU:HB2	1:62:A:ASP:H	9	0.26
(1,859)	1:37:A:ALA:HA	1:53:A:ILE:HD11	7	0.26
(1,859)	1:37:A:ALA:HA	1:53:A:ILE:HD12	7	0.26
(1,859)	1:37:A:ALA:HA	1:53:A:ILE:HD13	7	0.26
(1,816)	1:111:A:LYS:HD3	1:106:A:GLU:HA	6	0.26
(1,777)	1:48:A:ALA:HB1	1:41:A:GLU:H	9	0.26
(1,777)	1:48:A:ALA:HB2	1:41:A:GLU:H	9	0.26
(1,777)	1:48:A:ALA:HB3	1:41:A:GLU:H	9	0.26
(1,704)	1:44:A:ASP:H	1:43:A:ILE:HG21	1	0.26
(1,704)	1:44:A:ASP:H	1:43:A:ILE:HG22	1	0.26
(1,704)	1:44:A:ASP:H	1:43:A:ILE:HG23	1	0.26
(1,699)	1:43:A:ILE:HG12	1:43:A:ILE:HA	1	0.26
(1,699)	1:43:A:ILE:HG12	1:43:A:ILE:HA	4	0.26
(1,699)	1:43:A:ILE:HG12	1:43:A:ILE:HA	9	0.26
(1,699)	1:43:A:ILE:HG12	1:43:A:ILE:HA	10	0.26
(1,662)	1:45:A:LYS:HA	1:42:A:VAL:HG21	7	0.26
(1,662)	1:45:A:LYS:HA	1:42:A:VAL:HG22	7	0.26
(1,662)	1:45:A:LYS:HA	1:42:A:VAL:HG23	7	0.26
(1,423)	1:26:A:LYS:HG3	1:26:A:LYS:HE2	2	0.26
(1,390)	1:24:A:ILE:HD11	1:67:A:GLU:HB3	1	0.26
(1,390)	1:24:A:ILE:HD12	1:67:A:GLU:HB3	1	0.26
(1,390)	1:24:A:ILE:HD13	1:67:A:GLU:HB3	1	0.26
(1,390)	1:24:A:ILE:HD11	1:67:A:GLU:HB3	7	0.26
(1,390)	1:24:A:ILE:HD12	1:67:A:GLU:HB3	7	0.26
(1,390)	1:24:A:ILE:HD13	1:67:A:GLU:HB3	7	0.26
(1,309)	1:21:A:VAL:HG21	1:14:A:TRP:HH2	2	0.26
(1,309)	1:21:A:VAL:HG22	1:14:A:TRP:HH2	2	0.26
(1,309)	1:21:A:VAL:HG23	1:14:A:TRP:HH2	2	0.26
(1,148)	1:15:A:LEU:HD11	1:14:A:TRP:HZ2	2	0.26
(1,148)	1:15:A:LEU:HD12	1:14:A:TRP:HZ2	2	0.26
(1,148)	1:15:A:LEU:HD13	1:14:A:TRP:HZ2	2	0.26
(1,148)	1:15:A:LEU:HD11	1:14:A:TRP:HZ2	3	0.26
(1,148)	1:15:A:LEU:HD12	1:14:A:TRP:HZ2	3	0.26
(1,148)	1:15:A:LEU:HD13	1:14:A:TRP:HZ2	3	0.26
(1,143)	1:15:A:LEU:HD11	1:63:A:GLN:HB2	1	0.26
(1,143)	1:15:A:LEU:HD12	1:63:A:GLN:HB2	1	0.26
(1,143)	1:15:A:LEU:HD13	1:63:A:GLN:HB2	1	0.26
(1,138)	1:15:A:LEU:H	1:15:A:LEU:HD11	8	0.26
(1,138)	1:15:A:LEU:H	1:15:A:LEU:HD12	8	0.26
(1,138)	1:15:A:LEU:H	1:15:A:LEU:HD13	8	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,106)	1:14:A:TRP:HB3	1:80:A:LEU:HD11	10	0.26
(1,106)	1:14:A:TRP:HB3	1:80:A:LEU:HD12	10	0.26
(1,106)	1:14:A:TRP:HB3	1:80:A:LEU:HD13	10	0.26
(1,52)	1:61:A:LEU:HD11	1:25:A:THR:HB	3	0.26
(1,52)	1:61:A:LEU:HD12	1:25:A:THR:HB	3	0.26
(1,52)	1:61:A:LEU:HD13	1:25:A:THR:HB	3	0.26
(1,52)	1:61:A:LEU:HD11	1:25:A:THR:HB	6	0.26
(1,52)	1:61:A:LEU:HD12	1:25:A:THR:HB	6	0.26
(1,52)	1:61:A:LEU:HD13	1:25:A:THR:HB	6	0.26
(1,42)	1:8:A:THR:HA	1:9:A:ALA:H	1	0.26
(1,35)	1:113:A:ARG:HG3	1:114:A:ARG:H	7	0.26
(3,1226)	1:117:A:GLY:H	1:116:A:GLU:HG2	6	0.25
(3,1170)	1:111:A:LYS:HB2	1:112:A:GLY:H	8	0.25
(3,1166)	1:118:A:ILE:HG13	1:103:A:ILE:H	4	0.25
(3,1137)	1:113:A:ARG:HD2	1:114:A:ARG:HA	3	0.25
(3,1091)	1:112:A:GLY:H	1:105:A:ILE:H	7	0.25
(3,970)	1:100:A:SER:H	1:101:A:ALA:H	3	0.25
(3,863)	1:113:A:ARG:HD3	1:103:A:ILE:HD13	3	0.25
(3,863)	1:113:A:ARG:HD3	1:103:A:ILE:HD13	5	0.25
(3,721)	1:51:A:LYS:HG3	1:57:A:ASP:HA	1	0.25
(3,680)	1:23:A:ILE:H	1:24:A:ILE:HD12	3	0.25
(3,680)	1:23:A:ILE:H	1:24:A:ILE:HD11	9	0.25
(3,662)	1:120:A:TYR:HA	1:120:A:TYR:HB2	1	0.25
(3,662)	1:120:A:TYR:HA	1:120:A:TYR:HB2	2	0.25
(3,662)	1:120:A:TYR:HA	1:120:A:TYR:HB2	3	0.25
(3,662)	1:120:A:TYR:HA	1:120:A:TYR:HB2	5	0.25
(3,662)	1:120:A:TYR:HA	1:120:A:TYR:HB2	6	0.25
(3,662)	1:120:A:TYR:HA	1:120:A:TYR:HB2	7	0.25
(3,662)	1:120:A:TYR:HA	1:120:A:TYR:HB2	8	0.25
(3,662)	1:120:A:TYR:HA	1:120:A:TYR:HB2	9	0.25
(3,646)	1:85:A:ARG:H	1:83:A:GLY:H	5	0.25
(3,634)	1:103:A:ILE:HG12	1:104:A:VAL:H	6	0.25
(3,613)	1:17:A:PRO:HD2	1:17:A:PRO:HB3	3	0.25
(3,613)	1:17:A:PRO:HD2	1:17:A:PRO:HB3	5	0.25
(3,613)	1:17:A:PRO:HD2	1:17:A:PRO:HB3	7	0.25
(3,613)	1:17:A:PRO:HD2	1:17:A:PRO:HB3	8	0.25
(3,613)	1:17:A:PRO:HD2	1:17:A:PRO:HB3	10	0.25
(3,595)	1:105:A:ILE:HB	1:106:A:GLU:H	2	0.25
(3,545)	1:49:A:VAL:HG12	1:49:A:VAL:HA	3	0.25
(3,516)	1:118:A:ILE:HG13	1:117:A:GLY:HA2	3	0.25
(3,485)	1:127:A:ALA:H	1:126:A:LEU:HB3	2	0.25
(3,485)	1:127:A:ALA:H	1:126:A:LEU:HB3	6	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,423)	1:61:A:LEU:HD13	1:25:A:THR:H	5	0.25
(3,403)	1:113:A:ARG:HB2	1:105:A:ILE:H	1	0.25
(3,396)	1:118:A:ILE:HG23	1:121:A:GLU:HA	1	0.25
(3,297)	1:42:A:VAL:HG12	1:16:A:GLN:HG3	5	0.25
(3,257)	1:53:A:ILE:H	1:53:A:ILE:HD13	9	0.25
(3,223)	1:99:A:PHE:H	1:99:A:PHE:HB3	4	0.25
(3,223)	1:99:A:PHE:H	1:99:A:PHE:HB3	6	0.25
(3,85)	1:39:A:VAL:HG21	1:50:A:VAL:HA	6	0.25
(2,574)	1:39:A:VAL:H	1:20:A:ILE:HG12	1	0.25
(2,362)	1:84:A:TYR:HB3	1:103:A:ILE:HG13	8	0.25
(1,3855)	1:120:A:TYR:H	1:120:A:TYR:HE1	6	0.25
(1,3855)	1:120:A:TYR:H	1:120:A:TYR:HE2	6	0.25
(1,3775)	1:13:A:TYR:HB2	1:46:A:TYR:HD1	8	0.25
(1,3775)	1:13:A:TYR:HB2	1:46:A:TYR:HD2	8	0.25
(1,3710)	1:82:A:GLY:H	1:85:A:ARG:HA	5	0.25
(1,3635)	1:64:A:THR:H	1:62:A:ASP:H	1	0.25
(1,3606)	1:119:A:GLN:HE22	1:100:A:SER:HB2	6	0.25
(1,3446)	1:68:A:THR:HG21	1:14:A:TRP:HE1	8	0.25
(1,3446)	1:68:A:THR:HG22	1:14:A:TRP:HE1	8	0.25
(1,3446)	1:68:A:THR:HG23	1:14:A:TRP:HE1	8	0.25
(1,3392)	1:11:A:THR:H	1:13:A:TYR:H	2	0.25
(1,3208)	1:36:A:LYS:HG2	1:36:A:LYS:H	7	0.25
(1,3136)	1:44:A:ASP:H	1:42:A:VAL:HG21	4	0.25
(1,3136)	1:44:A:ASP:H	1:42:A:VAL:HG22	4	0.25
(1,3136)	1:44:A:ASP:H	1:42:A:VAL:HG23	4	0.25
(1,3097)	1:46:A:TYR:HB3	1:47:A:THR:H	1	0.25
(1,3011)	1:58:A:LYS:H	1:57:A:ASP:HB3	9	0.25
(1,2898)	1:69:A:VAL:H	1:69:A:VAL:HB	4	0.25
(1,2888)	1:70:A:ILE:H	1:69:A:VAL:HG21	1	0.25
(1,2888)	1:70:A:ILE:H	1:69:A:VAL:HG22	1	0.25
(1,2888)	1:70:A:ILE:H	1:69:A:VAL:HG23	1	0.25
(1,2888)	1:70:A:ILE:H	1:69:A:VAL:HG21	3	0.25
(1,2888)	1:70:A:ILE:H	1:69:A:VAL:HG22	3	0.25
(1,2888)	1:70:A:ILE:H	1:69:A:VAL:HG23	3	0.25
(1,2816)	1:85:A:ARG:HA	1:79:A:VAL:H	10	0.25
(1,2807)	1:79:A:VAL:HG11	1:80:A:LEU:H	2	0.25
(1,2807)	1:79:A:VAL:HG12	1:80:A:LEU:H	2	0.25
(1,2807)	1:79:A:VAL:HG13	1:80:A:LEU:H	2	0.25
(1,2749)	1:85:A:ARG:HG3	1:86:A:GLY:H	2	0.25
(1,2732)	1:84:A:TYR:HB2	1:87:A:ASN:H	1	0.25
(1,2658)	1:91:A:LEU:HD11	1:94:A:ILE:H	3	0.25
(1,2658)	1:91:A:LEU:HD12	1:94:A:ILE:H	3	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2658)	1:91:A:LEU:HD13	1:94:A:ILE:H	3	0.25
(1,2622)	1:97:A:LYS:H	1:97:A:LYS:HG3	8	0.25
(1,2608)	1:97:A:LYS:HB3	1:98:A:THR:H	2	0.25
(1,2608)	1:97:A:LYS:HB3	1:98:A:THR:H	9	0.25
(1,2592)	1:97:A:LYS:HB3	1:100:A:SER:H	10	0.25
(1,2473)	1:105:A:ILE:HD11	1:111:A:LYS:H	4	0.25
(1,2473)	1:105:A:ILE:HD12	1:111:A:LYS:H	4	0.25
(1,2473)	1:105:A:ILE:HD13	1:111:A:LYS:H	4	0.25
(1,2467)	1:113:A:ARG:H	1:105:A:ILE:HG13	7	0.25
(1,2442)	1:103:A:ILE:H	1:116:A:GLU:H	2	0.25
(1,2442)	1:103:A:ILE:H	1:116:A:GLU:H	3	0.25
(1,2436)	1:115:A:VAL:HB	1:116:A:GLU:H	5	0.25
(1,2404)	1:119:A:GLN:HB3	1:119:A:GLN:H	1	0.25
(1,2404)	1:119:A:GLN:HB3	1:119:A:GLN:H	3	0.25
(1,2404)	1:119:A:GLN:HB3	1:119:A:GLN:H	5	0.25
(1,2404)	1:119:A:GLN:HB3	1:119:A:GLN:H	7	0.25
(1,2404)	1:119:A:GLN:HB3	1:119:A:GLN:H	9	0.25
(1,2404)	1:119:A:GLN:HB3	1:119:A:GLN:H	10	0.25
(1,2397)	1:122:A:ASP:HA	1:119:A:GLN:H	3	0.25
(1,2335)	1:68:A:THR:HB	1:125:A:LYS:H	5	0.25
(1,2316)	1:127:A:ALA:H	1:19:A:ILE:HB	5	0.25
(1,2271)	1:28:A:LEU:HD21	1:28:A:LEU:HA	3	0.25
(1,2271)	1:28:A:LEU:HD22	1:28:A:LEU:HA	3	0.25
(1,2271)	1:28:A:LEU:HD23	1:28:A:LEU:HA	3	0.25
(1,2242)	1:94:A:ILE:HB	1:70:A:ILE:HG21	9	0.25
(1,2242)	1:94:A:ILE:HB	1:70:A:ILE:HG22	9	0.25
(1,2242)	1:94:A:ILE:HB	1:70:A:ILE:HG23	9	0.25
(1,2238)	1:76:A:ARG:HD2	1:90:A:THR:HA	9	0.25
(1,2166)	1:84:A:TYR:HE1	1:113:A:ARG:HG2	8	0.25
(1,2166)	1:84:A:TYR:HE2	1:113:A:ARG:HG2	8	0.25
(1,2148)	1:93:A:SER:H	1:91:A:LEU:HG	5	0.25
(1,2124)	1:123:A:ILE:HD11	1:101:A:ALA:HA	7	0.25
(1,2124)	1:123:A:ILE:HD12	1:101:A:ALA:HA	7	0.25
(1,2124)	1:123:A:ILE:HD13	1:101:A:ALA:HA	7	0.25
(1,2123)	1:84:A:TYR:HB3	1:103:A:ILE:HD11	9	0.25
(1,2123)	1:84:A:TYR:HB3	1:103:A:ILE:HD12	9	0.25
(1,2123)	1:84:A:TYR:HB3	1:103:A:ILE:HD13	9	0.25
(1,2034)	1:98:A:THR:HG21	1:95:A:ASN:HB3	7	0.25
(1,2034)	1:98:A:THR:HG22	1:95:A:ASN:HB3	7	0.25
(1,2034)	1:98:A:THR:HG23	1:95:A:ASN:HB3	7	0.25
(1,1971)	1:119:A:GLN:HA	1:101:A:ALA:H	6	0.25
(1,1966)	1:118:A:ILE:HG21	1:122:A:ASP:H	2	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1966)	1:118:A:ILE:HG22	1:122:A:ASP:H	2	0.25
(1,1966)	1:118:A:ILE:HG23	1:122:A:ASP:H	2	0.25
(1,1960)	1:118:A:ILE:HG13	1:118:A:ILE:H	9	0.25
(1,1890)	1:84:A:TYR:HE1	1:113:A:ARG:HD3	4	0.25
(1,1890)	1:84:A:TYR:HE2	1:113:A:ARG:HD3	4	0.25
(1,1888)	1:76:A:ARG:HD2	1:90:A:THR:HG21	2	0.25
(1,1888)	1:76:A:ARG:HD2	1:90:A:THR:HG22	2	0.25
(1,1888)	1:76:A:ARG:HD2	1:90:A:THR:HG23	2	0.25
(1,1882)	1:113:A:ARG:HA	1:113:A:ARG:HD2	6	0.25
(1,1758)	1:110:A:LEU:H	1:105:A:ILE:HG21	2	0.25
(1,1758)	1:110:A:LEU:H	1:105:A:ILE:HG22	2	0.25
(1,1758)	1:110:A:LEU:H	1:105:A:ILE:HG23	2	0.25
(1,1682)	1:47:A:THR:HG21	1:43:A:ILE:HB	8	0.25
(1,1682)	1:47:A:THR:HG22	1:43:A:ILE:HB	8	0.25
(1,1682)	1:47:A:THR:HG23	1:43:A:ILE:HB	8	0.25
(1,1648)	1:101:A:ALA:H	1:100:A:SER:HB3	3	0.25
(1,1629)	1:99:A:PHE:H	1:99:A:PHE:HB3	8	0.25
(1,1537)	1:97:A:LYS:HB3	1:98:A:THR:H	3	0.25
(1,1518)	1:75:A:LYS:H	1:91:A:LEU:HD11	1	0.25
(1,1518)	1:75:A:LYS:H	1:91:A:LEU:HD12	1	0.25
(1,1518)	1:75:A:LYS:H	1:91:A:LEU:HD13	1	0.25
(1,1352)	1:90:A:THR:HG21	1:74:A:GLY:HA2	4	0.25
(1,1352)	1:90:A:THR:HG22	1:74:A:GLY:HA2	4	0.25
(1,1352)	1:90:A:THR:HG23	1:74:A:GLY:HA2	4	0.25
(1,1216)	1:75:A:LYS:HG2	1:72:A:ALA:HB1	1	0.25
(1,1216)	1:75:A:LYS:HG2	1:72:A:ALA:HB2	1	0.25
(1,1216)	1:75:A:LYS:HG2	1:72:A:ALA:HB3	1	0.25
(1,1144)	1:68:A:THR:HA	1:69:A:VAL:HG11	10	0.25
(1,1144)	1:68:A:THR:HA	1:69:A:VAL:HG12	10	0.25
(1,1144)	1:68:A:THR:HA	1:69:A:VAL:HG13	10	0.25
(1,1104)	1:67:A:GLU:HA	1:67:A:GLU:HG2	5	0.25
(1,1104)	1:67:A:GLU:HA	1:67:A:GLU:HG2	10	0.25
(1,1070)	1:22:A:LYS:H	1:66:A:LEU:HA	4	0.25
(1,1036)	1:64:A:THR:HA	1:64:A:THR:HB	1	0.25
(1,957)	1:60:A:LYS:HB3	1:59:A:LEU:HA	4	0.25
(1,957)	1:60:A:LYS:HB3	1:59:A:LEU:HA	5	0.25
(1,918)	1:60:A:LYS:HB2	1:59:A:LEU:HA	8	0.25
(1,855)	1:37:A:ALA:H	1:53:A:ILE:HD11	10	0.25
(1,855)	1:37:A:ALA:H	1:53:A:ILE:HD12	10	0.25
(1,855)	1:37:A:ALA:H	1:53:A:ILE:HD13	10	0.25
(1,849)	1:37:A:ALA:HA	1:53:A:ILE:HB	10	0.25
(1,804)	1:50:A:VAL:HG21	1:59:A:LEU:HD21	4	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,804)	1:50:A:VAL:HG21	1:59:A:LEU:HD22	4	0.25
(1,804)	1:50:A:VAL:HG21	1:59:A:LEU:HD23	4	0.25
(1,804)	1:50:A:VAL:HG22	1:59:A:LEU:HD21	4	0.25
(1,804)	1:50:A:VAL:HG22	1:59:A:LEU:HD22	4	0.25
(1,804)	1:50:A:VAL:HG22	1:59:A:LEU:HD23	4	0.25
(1,804)	1:50:A:VAL:HG23	1:59:A:LEU:HD21	4	0.25
(1,804)	1:50:A:VAL:HG23	1:59:A:LEU:HD22	4	0.25
(1,804)	1:50:A:VAL:HG23	1:59:A:LEU:HD23	4	0.25
(1,787)	1:49:A:VAL:HG11	1:58:A:LYS:HG2	4	0.25
(1,787)	1:49:A:VAL:HG12	1:58:A:LYS:HG2	4	0.25
(1,787)	1:49:A:VAL:HG13	1:58:A:LYS:HG2	4	0.25
(1,777)	1:48:A:ALA:HB1	1:41:A:GLU:H	2	0.25
(1,777)	1:48:A:ALA:HB2	1:41:A:GLU:H	2	0.25
(1,777)	1:48:A:ALA:HB3	1:41:A:GLU:H	2	0.25
(1,763)	1:47:A:THR:HB	1:43:A:ILE:HG21	10	0.25
(1,763)	1:47:A:THR:HB	1:43:A:ILE:HG22	10	0.25
(1,763)	1:47:A:THR:HB	1:43:A:ILE:HG23	10	0.25
(1,699)	1:43:A:ILE:HG12	1:43:A:ILE:HA	2	0.25
(1,699)	1:43:A:ILE:HG12	1:43:A:ILE:HA	6	0.25
(1,693)	1:80:A:LEU:HD11	1:124:A:SER:HB2	1	0.25
(1,693)	1:80:A:LEU:HD12	1:124:A:SER:HB2	1	0.25
(1,693)	1:80:A:LEU:HD13	1:124:A:SER:HB2	1	0.25
(1,693)	1:80:A:LEU:HD11	1:124:A:SER:HB2	6	0.25
(1,693)	1:80:A:LEU:HD12	1:124:A:SER:HB2	6	0.25
(1,693)	1:80:A:LEU:HD13	1:124:A:SER:HB2	6	0.25
(1,662)	1:45:A:LYS:HA	1:42:A:VAL:HG21	10	0.25
(1,662)	1:45:A:LYS:HA	1:42:A:VAL:HG22	10	0.25
(1,662)	1:45:A:LYS:HA	1:42:A:VAL:HG23	10	0.25
(1,423)	1:26:A:LYS:HG2	1:26:A:LYS:HE3	10	0.25
(1,387)	1:65:A:HIS:HA	1:24:A:ILE:HD11	3	0.25
(1,387)	1:65:A:HIS:HA	1:24:A:ILE:HD12	3	0.25
(1,387)	1:65:A:HIS:HA	1:24:A:ILE:HD13	3	0.25
(1,266)	1:127:A:ALA:H	1:19:A:ILE:HG21	4	0.25
(1,266)	1:127:A:ALA:H	1:19:A:ILE:HG22	4	0.25
(1,266)	1:127:A:ALA:H	1:19:A:ILE:HG23	4	0.25
(1,265)	1:19:A:ILE:HG21	1:18:A:GLU:H	7	0.25
(1,265)	1:19:A:ILE:HG22	1:18:A:GLU:H	7	0.25
(1,265)	1:19:A:ILE:HG23	1:18:A:GLU:H	7	0.25
(1,248)	1:19:A:ILE:HD11	1:14:A:TRP:HZ3	10	0.25
(1,248)	1:19:A:ILE:HD12	1:14:A:TRP:HZ3	10	0.25
(1,248)	1:19:A:ILE:HD13	1:14:A:TRP:HZ3	10	0.25
(1,178)	1:17:A:PRO:HA	1:39:A:VAL:HG21	2	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,178)	1:17:A:PRO:HA	1:39:A:VAL:HG22	2	0.25
(1,178)	1:17:A:PRO:HA	1:39:A:VAL:HG23	2	0.25
(1,25)	1:7:A:ARG:HA	1:7:A:ARG:HG2	7	0.25
(3,1095)	1:26:A:LYS:HB3	1:25:A:THR:H	10	0.24
(3,1076)	1:5:A:LYS:H	1:5:A:LYS:HD3	1	0.24
(3,1030)	1:53:A:ILE:H	1:37:A:ALA:H	5	0.24
(3,975)	1:97:A:LYS:HB2	1:98:A:THR:HG22	3	0.24
(3,970)	1:100:A:SER:H	1:101:A:ALA:H	8	0.24
(3,951)	1:124:A:SER:H	1:123:A:ILE:HG23	1	0.24
(3,885)	1:69:A:VAL:HG22	1:125:A:LYS:HB2	9	0.24
(3,854)	1:104:A:VAL:HA	1:103:A:ILE:HB	1	0.24
(3,815)	1:123:A:ILE:HG12	1:123:A:ILE:HA	2	0.24
(3,815)	1:123:A:ILE:HG12	1:123:A:ILE:HA	5	0.24
(3,662)	1:120:A:TYR:HA	1:120:A:TYR:HB2	4	0.24
(3,595)	1:106:A:GLU:HG3	1:106:A:GLU:H	5	0.24
(3,440)	1:103:A:ILE:H	1:117:A:GLY:H	7	0.24
(3,426)	1:119:A:GLN:HA	1:100:A:SER:H	2	0.24
(3,416)	1:5:A:LYS:H	1:4:A:GLU:HG3	1	0.24
(3,296)	1:91:A:LEU:HD22	1:101:A:ALA:HB3	8	0.24
(3,282)	1:105:A:ILE:H	1:111:A:LYS:HA	6	0.24
(3,223)	1:99:A:PHE:H	1:99:A:PHE:HB3	8	0.24
(3,153)	1:123:A:ILE:HD11	1:102:A:THR:H	6	0.24
(3,121)	1:38:A:ILE:HB	1:38:A:ILE:HG22	7	0.24
(3,109)	1:4:A:GLU:HB3	1:4:A:GLU:HG2	2	0.24
(3,109)	1:2:A:GLU:HB3	1:2:A:GLU:HG2	6	0.24
(3,107)	1:60:A:LYS:HD2	1:60:A:LYS:HE2	2	0.24
(3,107)	1:60:A:LYS:HD2	1:60:A:LYS:HE2	3	0.24
(3,85)	1:39:A:VAL:HG21	1:50:A:VAL:HA	1	0.24
(2,617)	1:24:A:ILE:HA	1:33:A:HIS:H	10	0.24
(2,593)	1:66:A:LEU:HB3	1:14:A:TRP:HE1	6	0.24
(2,574)	1:39:A:VAL:H	1:20:A:ILE:HG12	5	0.24
(2,362)	1:84:A:TYR:HB3	1:103:A:ILE:HG13	4	0.24
(2,142)	1:10:A:ARG:HA	1:82:A:GLY:HA3	9	0.24
(1,3866)	1:120:A:TYR:HE1	1:99:A:PHE:H	5	0.24
(1,3866)	1:120:A:TYR:HE2	1:99:A:PHE:H	5	0.24
(1,3840)	1:46:A:TYR:HE1	1:13:A:TYR:HB2	9	0.24
(1,3840)	1:46:A:TYR:HE2	1:13:A:TYR:HB2	9	0.24
(1,3710)	1:82:A:GLY:H	1:85:A:ARG:HA	8	0.24
(1,3670)	1:48:A:ALA:H	1:42:A:VAL:HA	3	0.24
(1,3392)	1:11:A:THR:H	1:13:A:TYR:H	7	0.24
(1,2898)	1:69:A:VAL:H	1:69:A:VAL:HB	2	0.24
(1,2898)	1:69:A:VAL:H	1:69:A:VAL:HB	8	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2873)	1:91:A:LEU:HD11	1:74:A:GLY:H	10	0.24
(1,2873)	1:91:A:LEU:HD12	1:74:A:GLY:H	10	0.24
(1,2873)	1:91:A:LEU:HD13	1:74:A:GLY:H	10	0.24
(1,2807)	1:79:A:VAL:HG11	1:80:A:LEU:H	4	0.24
(1,2807)	1:79:A:VAL:HG12	1:80:A:LEU:H	4	0.24
(1,2807)	1:79:A:VAL:HG13	1:80:A:LEU:H	4	0.24
(1,2747)	1:85:A:ARG:HB3	1:86:A:GLY:H	7	0.24
(1,2736)	1:79:A:VAL:HG21	1:87:A:ASN:H	3	0.24
(1,2736)	1:79:A:VAL:HG22	1:87:A:ASN:H	3	0.24
(1,2736)	1:79:A:VAL:HG23	1:87:A:ASN:H	3	0.24
(1,2630)	1:96:A:GLU:H	1:98:A:THR:H	2	0.24
(1,2493)	1:110:A:LEU:H	1:110:A:LEU:HD11	10	0.24
(1,2493)	1:110:A:LEU:H	1:110:A:LEU:HD12	10	0.24
(1,2493)	1:110:A:LEU:H	1:110:A:LEU:HD13	10	0.24
(1,2477)	1:110:A:LEU:HB3	1:111:A:LYS:H	4	0.24
(1,2473)	1:105:A:ILE:HD11	1:111:A:LYS:H	8	0.24
(1,2473)	1:105:A:ILE:HD12	1:111:A:LYS:H	8	0.24
(1,2473)	1:105:A:ILE:HD13	1:111:A:LYS:H	8	0.24
(1,2473)	1:105:A:ILE:HD11	1:111:A:LYS:H	9	0.24
(1,2473)	1:105:A:ILE:HD12	1:111:A:LYS:H	9	0.24
(1,2473)	1:105:A:ILE:HD13	1:111:A:LYS:H	9	0.24
(1,2442)	1:103:A:ILE:H	1:116:A:GLU:H	8	0.24
(1,2436)	1:115:A:VAL:HB	1:116:A:GLU:H	6	0.24
(1,2418)	1:118:A:ILE:HG13	1:118:A:ILE:H	1	0.24
(1,2404)	1:119:A:GLN:HB3	1:119:A:GLN:H	4	0.24
(1,2252)	1:40:A:LYS:HE3	1:40:A:LYS:HG3	4	0.24
(1,2246)	1:13:A:TYR:HB3	1:45:A:LYS:HD3	9	0.24
(1,2219)	1:120:A:TYR:H	1:101:A:ALA:HB1	6	0.24
(1,2219)	1:120:A:TYR:H	1:101:A:ALA:HB2	6	0.24
(1,2219)	1:120:A:TYR:H	1:101:A:ALA:HB3	6	0.24
(1,2211)	1:84:A:TYR:HE1	1:103:A:ILE:HD11	4	0.24
(1,2211)	1:84:A:TYR:HE1	1:103:A:ILE:HD12	4	0.24
(1,2211)	1:84:A:TYR:HE1	1:103:A:ILE:HD13	4	0.24
(1,2211)	1:84:A:TYR:HE2	1:103:A:ILE:HD11	4	0.24
(1,2211)	1:84:A:TYR:HE2	1:103:A:ILE:HD12	4	0.24
(1,2211)	1:84:A:TYR:HE2	1:103:A:ILE:HD13	4	0.24
(1,2196)	1:106:A:GLU:HB2	1:105:A:ILE:HA	6	0.24
(1,2124)	1:123:A:ILE:HD11	1:101:A:ALA:HA	2	0.24
(1,2124)	1:123:A:ILE:HD12	1:101:A:ALA:HA	2	0.24
(1,2124)	1:123:A:ILE:HD13	1:101:A:ALA:HA	2	0.24
(1,2124)	1:123:A:ILE:HD11	1:101:A:ALA:HA	10	0.24
(1,2124)	1:123:A:ILE:HD12	1:101:A:ALA:HA	10	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2124)	1:123:A:ILE:HD13	1:101:A:ALA:HA	10	0.24
(1,1997)	1:122:A:ASP:H	1:121:A:GLU:HB2	4	0.24
(1,1731)	1:105:A:ILE:HG13	1:105:A:ILE:HA	5	0.24
(1,1629)	1:99:A:PHE:H	1:99:A:PHE:HB3	5	0.24
(1,1585)	1:94:A:ILE:HG21	1:101:A:ALA:HA	5	0.24
(1,1585)	1:94:A:ILE:HG22	1:101:A:ALA:HA	5	0.24
(1,1585)	1:94:A:ILE:HG23	1:101:A:ALA:HA	5	0.24
(1,1535)	1:93:A:SER:HA	1:91:A:LEU:HG	2	0.24
(1,1535)	1:93:A:SER:HA	1:91:A:LEU:HG	7	0.24
(1,1535)	1:93:A:SER:HA	1:91:A:LEU:HG	8	0.24
(1,1526)	1:92:A:GLU:H	1:91:A:LEU:HG	9	0.24
(1,1459)	1:87:A:ASN:H	1:87:A:ASN:HB3	8	0.24
(1,1313)	1:77:A:ILE:H	1:77:A:ILE:HG12	3	0.24
(1,1277)	1:97:A:LYS:HB3	1:98:A:THR:H	6	0.24
(1,1264)	1:75:A:LYS:HD3	1:72:A:ALA:H	10	0.24
(1,1176)	1:70:A:ILE:H	1:70:A:ILE:HG13	4	0.24
(1,1144)	1:68:A:THR:HA	1:69:A:VAL:HG11	6	0.24
(1,1144)	1:68:A:THR:HA	1:69:A:VAL:HG12	6	0.24
(1,1144)	1:68:A:THR:HA	1:69:A:VAL:HG13	6	0.24
(1,1070)	1:22:A:LYS:H	1:66:A:LEU:HA	3	0.24
(1,1021)	1:15:A:LEU:HD11	1:63:A:GLN:HB2	6	0.24
(1,1021)	1:15:A:LEU:HD12	1:63:A:GLN:HB2	6	0.24
(1,1021)	1:15:A:LEU:HD13	1:63:A:GLN:HB2	6	0.24
(1,971)	1:65:A:HIS:HB3	1:61:A:LEU:HB2	3	0.24
(1,970)	1:61:A:LEU:HB2	1:62:A:ASP:H	10	0.24
(1,964)	1:60:A:LYS:HE2	1:60:A:LYS:HA	3	0.24
(1,957)	1:60:A:LYS:HB3	1:59:A:LEU:HA	2	0.24
(1,957)	1:60:A:LYS:HB3	1:59:A:LEU:HA	6	0.24
(1,957)	1:60:A:LYS:HB3	1:59:A:LEU:HA	9	0.24
(1,888)	1:54:A:ASP:HB2	1:53:A:ILE:HB	10	0.24
(1,881)	1:54:A:ASP:HA	1:53:A:ILE:HG21	2	0.24
(1,881)	1:54:A:ASP:HA	1:53:A:ILE:HG22	2	0.24
(1,881)	1:54:A:ASP:HA	1:53:A:ILE:HG23	2	0.24
(1,780)	1:15:A:LEU:HA	1:48:A:ALA:HB1	7	0.24
(1,780)	1:15:A:LEU:HA	1:48:A:ALA:HB2	7	0.24
(1,780)	1:15:A:LEU:HA	1:48:A:ALA:HB3	7	0.24
(1,777)	1:48:A:ALA:HB1	1:41:A:GLU:H	7	0.24
(1,777)	1:48:A:ALA:HB2	1:41:A:GLU:H	7	0.24
(1,777)	1:48:A:ALA:HB3	1:41:A:GLU:H	7	0.24
(1,629)	1:104:A:VAL:HB	1:104:A:VAL:H	10	0.24
(1,558)	1:48:A:ALA:HB1	1:39:A:VAL:HB	7	0.24
(1,558)	1:48:A:ALA:HB2	1:39:A:VAL:HB	7	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,558)	1:48:A:ALA:HB3	1:39:A:VAL:HB	7	0.24
(1,530)	1:37:A:ALA:HB1	1:38:A:ILE:H	5	0.24
(1,530)	1:37:A:ALA:HB2	1:38:A:ILE:H	5	0.24
(1,530)	1:37:A:ALA:HB3	1:38:A:ILE:H	5	0.24
(1,451)	1:28:A:LEU:H	1:28:A:LEU:HD11	9	0.24
(1,451)	1:28:A:LEU:H	1:28:A:LEU:HD12	9	0.24
(1,451)	1:28:A:LEU:H	1:28:A:LEU:HD13	9	0.24
(1,399)	1:66:A:LEU:HA	1:24:A:ILE:HG21	2	0.24
(1,399)	1:66:A:LEU:HA	1:24:A:ILE:HG22	2	0.24
(1,399)	1:66:A:LEU:HA	1:24:A:ILE:HG23	2	0.24
(3,1182)	1:98:A:THR:HG23	1:98:A:THR:HA	2	0.23
(3,1170)	1:111:A:LYS:HB2	1:112:A:GLY:H	1	0.23
(3,1142)	1:17:A:PRO:HD2	1:16:A:GLN:HG2	8	0.23
(3,1137)	1:113:A:ARG:HD2	1:114:A:ARG:HA	2	0.23
(3,1128)	1:75:A:LYS:HG2	1:72:A:ALA:H	4	0.23
(3,1128)	1:72:A:ALA:H	1:71:A:PRO:HB3	6	0.23
(3,1108)	1:10:A:ARG:HB3	1:81:A:ASN:HD21	4	0.23
(3,1108)	1:53:A:ILE:HB	1:56:A:GLY:H	5	0.23
(3,1091)	1:112:A:GLY:H	1:105:A:ILE:H	2	0.23
(3,1076)	1:5:A:LYS:H	1:5:A:LYS:HD3	4	0.23
(3,1030)	1:36:A:LYS:H	1:37:A:ALA:H	4	0.23
(3,993)	1:61:A:LEU:HG	1:50:A:VAL:H	9	0.23
(3,864)	1:53:A:ILE:HG22	1:53:A:ILE:HB	2	0.23
(3,864)	1:53:A:ILE:HG21	1:53:A:ILE:HB	8	0.23
(3,815)	1:123:A:ILE:HG12	1:123:A:ILE:HA	6	0.23
(3,815)	1:123:A:ILE:HG12	1:123:A:ILE:HA	7	0.23
(3,758)	1:45:A:LYS:HB2	1:45:A:LYS:HD3	2	0.23
(3,680)	1:23:A:ILE:H	1:24:A:ILE:HD11	8	0.23
(3,646)	1:85:A:ARG:H	1:83:A:GLY:H	4	0.23
(3,516)	1:118:A:ILE:HG13	1:117:A:GLY:HA2	4	0.23
(3,516)	1:118:A:ILE:HG13	1:117:A:GLY:HA2	8	0.23
(3,489)	1:82:A:GLY:HA3	1:81:A:ASN:HB3	5	0.23
(3,485)	1:127:A:ALA:H	1:126:A:LEU:HB3	3	0.23
(3,403)	1:113:A:ARG:HB2	1:105:A:ILE:H	10	0.23
(3,388)	1:73:A:PRO:HB2	1:73:A:PRO:HA	1	0.23
(3,381)	1:45:A:LYS:H	1:44:A:ASP:HB3	5	0.23
(3,366)	1:42:A:VAL:HG21	1:16:A:GLN:HG2	1	0.23
(3,366)	1:42:A:VAL:HG22	1:16:A:GLN:HG2	7	0.23
(3,257)	1:53:A:ILE:H	1:53:A:ILE:HD13	3	0.23
(3,223)	1:99:A:PHE:H	1:99:A:PHE:HB3	5	0.23
(3,211)	1:118:A:ILE:H	1:116:A:GLU:HB3	4	0.23
(3,180)	1:65:A:HIS:H	1:62:A:ASP:HB3	5	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,121)	1:38:A:ILE:HB	1:38:A:ILE:HG22	2	0.23
(3,121)	1:38:A:ILE:HB	1:38:A:ILE:HG23	3	0.23
(3,121)	1:38:A:ILE:HB	1:38:A:ILE:HG21	4	0.23
(3,121)	1:38:A:ILE:HB	1:38:A:ILE:HG23	6	0.23
(3,109)	1:3:A:GLU:HB2	1:3:A:GLU:HG3	4	0.23
(3,109)	1:2:A:GLU:HB3	1:2:A:GLU:HG2	7	0.23
(3,109)	1:3:A:GLU:HB2	1:3:A:GLU:HG3	9	0.23
(3,107)	1:60:A:LYS:HD2	1:60:A:LYS:HE2	4	0.23
(3,107)	1:60:A:LYS:HD2	1:60:A:LYS:HE2	5	0.23
(3,107)	1:60:A:LYS:HD2	1:60:A:LYS:HE2	10	0.23
(3,85)	1:36:A:LYS:HA	1:69:A:VAL:HG11	5	0.23
(3,4)	1:102:A:THR:HG22	1:116:A:GLU:H	5	0.23
(3,4)	1:102:A:THR:HG21	1:116:A:GLU:H	9	0.23
(2,609)	1:119:A:GLN:HE21	1:121:A:GLU:HB2	7	0.23
(2,515)	1:85:A:ARG:HD2	1:81:A:ASN:H	7	0.23
(2,11)	1:9:A:ALA:HA	1:14:A:TRP:HA	1	0.23
(1,3866)	1:120:A:TYR:HE1	1:99:A:PHE:H	7	0.23
(1,3866)	1:120:A:TYR:HE2	1:99:A:PHE:H	7	0.23
(1,3775)	1:13:A:TYR:HB2	1:46:A:TYR:HD1	2	0.23
(1,3775)	1:13:A:TYR:HB2	1:46:A:TYR:HD2	2	0.23
(1,3759)	1:27:A:LYS:HG3	1:65:A:HIS:HE1	10	0.23
(1,3753)	1:34:A:LYS:HD2	1:33:A:HIS:HE1	3	0.23
(1,3718)	1:87:A:ASN:HD21	1:79:A:VAL:HB	3	0.23
(1,3676)	1:49:A:VAL:H	1:43:A:ILE:HB	10	0.23
(1,3575)	1:87:A:ASN:H	1:87:A:ASN:HD22	2	0.23
(1,3575)	1:87:A:ASN:H	1:87:A:ASN:HD22	7	0.23
(1,3575)	1:87:A:ASN:H	1:87:A:ASN:HD22	8	0.23
(1,3470)	1:16:A:GLN:HB2	1:16:A:GLN:HE21	5	0.23
(1,3470)	1:16:A:GLN:HB2	1:16:A:GLN:HE21	8	0.23
(1,3468)	1:80:A:LEU:HD21	1:16:A:GLN:HE21	2	0.23
(1,3468)	1:80:A:LEU:HD22	1:16:A:GLN:HE21	2	0.23
(1,3468)	1:80:A:LEU:HD23	1:16:A:GLN:HE21	2	0.23
(1,3392)	1:11:A:THR:H	1:13:A:TYR:H	4	0.23
(1,3389)	1:82:A:GLY:H	1:11:A:THR:H	3	0.23
(1,3368)	1:15:A:LEU:H	1:13:A:TYR:HB3	4	0.23
(1,3368)	1:15:A:LEU:H	1:13:A:TYR:HB3	5	0.23
(1,3349)	1:14:A:TRP:HE3	1:16:A:GLN:H	10	0.23
(1,3202)	1:52:A:MET:HA	1:37:A:ALA:H	4	0.23
(1,3134)	1:44:A:ASP:H	1:43:A:ILE:HG13	8	0.23
(1,3128)	1:47:A:THR:HB	1:44:A:ASP:H	2	0.23
(1,3126)	1:44:A:ASP:H	1:47:A:THR:HA	2	0.23
(1,3077)	1:49:A:VAL:H	1:43:A:ILE:H	1	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3077)	1:49:A:VAL:H	1:43:A:ILE:H	10	0.23
(1,3040)	1:54:A:ASP:H	1:53:A:ILE:HG21	4	0.23
(1,3040)	1:54:A:ASP:H	1:53:A:ILE:HG22	4	0.23
(1,3040)	1:54:A:ASP:H	1:53:A:ILE:HG23	4	0.23
(1,3000)	1:59:A:LEU:HD11	1:60:A:LYS:H	2	0.23
(1,3000)	1:59:A:LEU:HD12	1:60:A:LYS:H	2	0.23
(1,3000)	1:59:A:LEU:HD13	1:60:A:LYS:H	2	0.23
(1,2958)	1:64:A:THR:H	1:63:A:GLN:HB2	9	0.23
(1,2898)	1:69:A:VAL:H	1:69:A:VAL:HB	1	0.23
(1,2898)	1:69:A:VAL:H	1:69:A:VAL:HB	3	0.23
(1,2807)	1:79:A:VAL:HG11	1:80:A:LEU:H	5	0.23
(1,2807)	1:79:A:VAL:HG12	1:80:A:LEU:H	5	0.23
(1,2807)	1:79:A:VAL:HG13	1:80:A:LEU:H	5	0.23
(1,2767)	1:84:A:TYR:HB3	1:84:A:TYR:H	4	0.23
(1,2767)	1:84:A:TYR:HB3	1:84:A:TYR:H	6	0.23
(1,2747)	1:85:A:ARG:HB3	1:86:A:GLY:H	5	0.23
(1,2732)	1:84:A:TYR:HB2	1:87:A:ASN:H	2	0.23
(1,2658)	1:91:A:LEU:HD11	1:94:A:ILE:H	7	0.23
(1,2658)	1:91:A:LEU:HD12	1:94:A:ILE:H	7	0.23
(1,2658)	1:91:A:LEU:HD13	1:94:A:ILE:H	7	0.23
(1,2630)	1:96:A:GLU:H	1:98:A:THR:H	1	0.23
(1,2625)	1:97:A:LYS:H	1:99:A:PHE:H	10	0.23
(1,2590)	1:100:A:SER:H	1:99:A:PHE:HB2	7	0.23
(1,2442)	1:103:A:ILE:H	1:116:A:GLU:H	6	0.23
(1,2442)	1:103:A:ILE:H	1:116:A:GLU:H	9	0.23
(1,2436)	1:115:A:VAL:HB	1:116:A:GLU:H	3	0.23
(1,2397)	1:122:A:ASP:HA	1:119:A:GLN:H	8	0.23
(1,2382)	1:120:A:TYR:H	1:119:A:GLN:HB2	7	0.23
(1,2382)	1:120:A:TYR:H	1:119:A:GLN:HB2	10	0.23
(1,2339)	1:77:A:ILE:HA	1:124:A:SER:H	9	0.23
(1,2335)	1:68:A:THR:HB	1:125:A:LYS:H	10	0.23
(1,2325)	1:126:A:LEU:H	1:77:A:ILE:HG21	10	0.23
(1,2325)	1:126:A:LEU:H	1:77:A:ILE:HG22	10	0.23
(1,2325)	1:126:A:LEU:H	1:77:A:ILE:HG23	10	0.23
(1,2124)	1:123:A:ILE:HD11	1:101:A:ALA:HA	9	0.23
(1,2124)	1:123:A:ILE:HD12	1:101:A:ALA:HA	9	0.23
(1,2124)	1:123:A:ILE:HD13	1:101:A:ALA:HA	9	0.23
(1,2122)	1:78:A:LEU:HA	1:123:A:ILE:HG21	5	0.23
(1,2122)	1:78:A:LEU:HA	1:123:A:ILE:HG22	5	0.23
(1,2122)	1:78:A:LEU:HA	1:123:A:ILE:HG23	5	0.23
(1,2093)	1:127:A:ALA:HB1	1:38:A:ILE:HD11	7	0.23
(1,2093)	1:127:A:ALA:HB1	1:38:A:ILE:HD12	7	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2093)	1:127:A:ALA:HB1	1:38:A:ILE:HD13	7	0.23
(1,2093)	1:127:A:ALA:HB2	1:38:A:ILE:HD11	7	0.23
(1,2093)	1:127:A:ALA:HB2	1:38:A:ILE:HD12	7	0.23
(1,2093)	1:127:A:ALA:HB2	1:38:A:ILE:HD13	7	0.23
(1,2093)	1:127:A:ALA:HB3	1:38:A:ILE:HD11	7	0.23
(1,2093)	1:127:A:ALA:HB3	1:38:A:ILE:HD12	7	0.23
(1,2093)	1:127:A:ALA:HB3	1:38:A:ILE:HD13	7	0.23
(1,2032)	1:78:A:LEU:H	1:123:A:ILE:HG21	4	0.23
(1,2032)	1:78:A:LEU:H	1:123:A:ILE:HG22	4	0.23
(1,2032)	1:78:A:LEU:H	1:123:A:ILE:HG23	4	0.23
(1,1960)	1:118:A:ILE:HG13	1:118:A:ILE:H	8	0.23
(1,1959)	1:118:A:ILE:HD11	1:122:A:ASP:HB2	10	0.23
(1,1959)	1:118:A:ILE:HD12	1:122:A:ASP:HB2	10	0.23
(1,1959)	1:118:A:ILE:HD13	1:122:A:ASP:HB2	10	0.23
(1,1950)	1:118:A:ILE:HA	1:101:A:ALA:H	1	0.23
(1,1753)	1:115:A:VAL:HG11	1:105:A:ILE:HG13	1	0.23
(1,1753)	1:115:A:VAL:HG12	1:105:A:ILE:HG13	1	0.23
(1,1753)	1:115:A:VAL:HG13	1:105:A:ILE:HG13	1	0.23
(1,1731)	1:105:A:ILE:HG13	1:105:A:ILE:HA	4	0.23
(1,1616)	1:98:A:THR:HG21	1:98:A:THR:H	3	0.23
(1,1616)	1:98:A:THR:HG22	1:98:A:THR:H	3	0.23
(1,1616)	1:98:A:THR:HG23	1:98:A:THR:H	3	0.23
(1,1616)	1:98:A:THR:HG21	1:98:A:THR:H	9	0.23
(1,1616)	1:98:A:THR:HG22	1:98:A:THR:H	9	0.23
(1,1616)	1:98:A:THR:HG23	1:98:A:THR:H	9	0.23
(1,1584)	1:120:A:TYR:HD1	1:94:A:ILE:HG21	10	0.23
(1,1584)	1:120:A:TYR:HD1	1:94:A:ILE:HG22	10	0.23
(1,1584)	1:120:A:TYR:HD1	1:94:A:ILE:HG23	10	0.23
(1,1584)	1:120:A:TYR:HD2	1:94:A:ILE:HG21	10	0.23
(1,1584)	1:120:A:TYR:HD2	1:94:A:ILE:HG22	10	0.23
(1,1584)	1:120:A:TYR:HD2	1:94:A:ILE:HG23	10	0.23
(1,1526)	1:92:A:GLU:H	1:91:A:LEU:HG	8	0.23
(1,1459)	1:87:A:ASN:H	1:87:A:ASN:HB3	3	0.23
(1,1448)	1:85:A:ARG:HD2	1:81:A:ASN:HA	3	0.23
(1,1426)	1:85:A:ARG:HA	1:87:A:ASN:H	9	0.23
(1,1408)	1:84:A:TYR:HB2	1:84:A:TYR:HA	1	0.23
(1,1408)	1:84:A:TYR:HB2	1:84:A:TYR:HA	2	0.23
(1,1408)	1:84:A:TYR:HB2	1:84:A:TYR:HA	3	0.23
(1,1408)	1:84:A:TYR:HB2	1:84:A:TYR:HA	4	0.23
(1,1408)	1:84:A:TYR:HB2	1:84:A:TYR:HA	5	0.23
(1,1408)	1:84:A:TYR:HB2	1:84:A:TYR:HA	6	0.23
(1,1408)	1:84:A:TYR:HB2	1:84:A:TYR:HA	7	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1408)	1:84:A:TYR:HB2	1:84:A:TYR:HA	8	0.23
(1,1408)	1:84:A:TYR:HB2	1:84:A:TYR:HA	9	0.23
(1,1408)	1:84:A:TYR:HB2	1:84:A:TYR:HA	10	0.23
(1,1313)	1:77:A:ILE:H	1:77:A:ILE:HG12	7	0.23
(1,1313)	1:77:A:ILE:H	1:77:A:ILE:HG12	9	0.23
(1,1223)	1:73:A:PRO:HA	1:91:A:LEU:HG	7	0.23
(1,1104)	1:67:A:GLU:HA	1:67:A:GLU:HG2	2	0.23
(1,1070)	1:22:A:LYS:H	1:66:A:LEU:HA	7	0.23
(1,1062)	1:65:A:HIS:HB3	1:61:A:LEU:HB2	9	0.23
(1,951)	1:60:A:LYS:HA	1:50:A:VAL:H	2	0.23
(1,940)	1:61:A:LEU:HG	1:59:A:LEU:HD11	6	0.23
(1,940)	1:61:A:LEU:HG	1:59:A:LEU:HD12	6	0.23
(1,940)	1:61:A:LEU:HG	1:59:A:LEU:HD13	6	0.23
(1,918)	1:60:A:LYS:HB2	1:59:A:LEU:HA	4	0.23
(1,906)	1:58:A:LYS:H	1:57:A:ASP:HB2	9	0.23
(1,888)	1:54:A:ASP:HB2	1:53:A:ILE:HB	5	0.23
(1,869)	1:94:A:ILE:HD11	1:120:A:TYR:HE1	1	0.23
(1,869)	1:94:A:ILE:HD11	1:120:A:TYR:HE2	1	0.23
(1,869)	1:94:A:ILE:HD12	1:120:A:TYR:HE1	1	0.23
(1,869)	1:94:A:ILE:HD12	1:120:A:TYR:HE2	1	0.23
(1,869)	1:94:A:ILE:HD13	1:120:A:TYR:HE1	1	0.23
(1,869)	1:94:A:ILE:HD13	1:120:A:TYR:HE2	1	0.23
(1,855)	1:37:A:ALA:H	1:53:A:ILE:HD11	7	0.23
(1,855)	1:37:A:ALA:H	1:53:A:ILE:HD12	7	0.23
(1,855)	1:37:A:ALA:H	1:53:A:ILE:HD13	7	0.23
(1,855)	1:37:A:ALA:H	1:53:A:ILE:HD11	8	0.23
(1,855)	1:37:A:ALA:H	1:53:A:ILE:HD12	8	0.23
(1,855)	1:37:A:ALA:H	1:53:A:ILE:HD13	8	0.23
(1,780)	1:15:A:LEU:HA	1:48:A:ALA:HB1	9	0.23
(1,780)	1:15:A:LEU:HA	1:48:A:ALA:HB2	9	0.23
(1,780)	1:15:A:LEU:HA	1:48:A:ALA:HB3	9	0.23
(1,699)	1:43:A:ILE:HG12	1:43:A:ILE:HA	3	0.23
(1,699)	1:43:A:ILE:HG12	1:43:A:ILE:HA	7	0.23
(1,699)	1:43:A:ILE:HG12	1:43:A:ILE:HA	8	0.23
(1,683)	1:43:A:ILE:HD11	1:43:A:ILE:HA	1	0.23
(1,683)	1:43:A:ILE:HD12	1:43:A:ILE:HA	1	0.23
(1,683)	1:43:A:ILE:HD13	1:43:A:ILE:HA	1	0.23
(1,683)	1:43:A:ILE:HD11	1:43:A:ILE:HA	10	0.23
(1,683)	1:43:A:ILE:HD12	1:43:A:ILE:HA	10	0.23
(1,683)	1:43:A:ILE:HD13	1:43:A:ILE:HA	10	0.23
(1,659)	1:45:A:LYS:H	1:42:A:VAL:HG21	1	0.23
(1,659)	1:45:A:LYS:H	1:42:A:VAL:HG22	1	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,659)	1:45:A:LYS:H	1:42:A:VAL:HG23	1	0.23
(1,563)	1:39:A:VAL:HG21	1:19:A:ILE:H	1	0.23
(1,563)	1:39:A:VAL:HG22	1:19:A:ILE:H	1	0.23
(1,563)	1:39:A:VAL:HG23	1:19:A:ILE:H	1	0.23
(1,399)	1:66:A:LEU:HA	1:24:A:ILE:HG21	5	0.23
(1,399)	1:66:A:LEU:HA	1:24:A:ILE:HG22	5	0.23
(1,399)	1:66:A:LEU:HA	1:24:A:ILE:HG23	5	0.23
(1,375)	1:23:A:ILE:HG21	1:66:A:LEU:HA	7	0.23
(1,375)	1:23:A:ILE:HG22	1:66:A:LEU:HA	7	0.23
(1,375)	1:23:A:ILE:HG23	1:66:A:LEU:HA	7	0.23
(1,150)	1:48:A:ALA:H	1:15:A:LEU:HD21	2	0.23
(1,150)	1:48:A:ALA:H	1:15:A:LEU:HD22	2	0.23
(1,150)	1:48:A:ALA:H	1:15:A:LEU:HD23	2	0.23
(1,148)	1:15:A:LEU:HD11	1:14:A:TRP:HZ2	5	0.23
(1,148)	1:15:A:LEU:HD12	1:14:A:TRP:HZ2	5	0.23
(1,148)	1:15:A:LEU:HD13	1:14:A:TRP:HZ2	5	0.23
(1,148)	1:15:A:LEU:HD11	1:14:A:TRP:HZ2	10	0.23
(1,148)	1:15:A:LEU:HD12	1:14:A:TRP:HZ2	10	0.23
(1,148)	1:15:A:LEU:HD13	1:14:A:TRP:HZ2	10	0.23
(1,74)	1:11:A:THR:HB	1:13:A:TYR:H	4	0.23
(3,1183)	1:55:A:SER:HB3	1:57:A:ASP:HB2	9	0.22
(3,1170)	1:111:A:LYS:HB2	1:112:A:GLY:H	2	0.22
(3,1166)	1:118:A:ILE:HG13	1:103:A:ILE:H	3	0.22
(3,1166)	1:118:A:ILE:HG13	1:103:A:ILE:H	10	0.22
(3,1030)	1:53:A:ILE:H	1:37:A:ALA:H	10	0.22
(3,973)	1:20:A:ILE:HG23	1:21:A:VAL:H	10	0.22
(3,970)	1:100:A:SER:H	1:101:A:ALA:H	6	0.22
(3,970)	1:100:A:SER:H	1:101:A:ALA:H	10	0.22
(3,928)	1:120:A:TYR:HA	1:123:A:ILE:HG21	1	0.22
(3,928)	1:120:A:TYR:HA	1:123:A:ILE:HG22	10	0.22
(3,885)	1:69:A:VAL:HG21	1:125:A:LYS:HB2	5	0.22
(3,870)	1:56:A:GLY:HA3	1:57:A:ASP:H	10	0.22
(3,864)	1:53:A:ILE:HG23	1:53:A:ILE:HB	1	0.22
(3,864)	1:53:A:ILE:HG23	1:53:A:ILE:HB	4	0.22
(3,864)	1:53:A:ILE:HG23	1:53:A:ILE:HB	6	0.22
(3,864)	1:53:A:ILE:HG21	1:53:A:ILE:HB	9	0.22
(3,864)	1:53:A:ILE:HG21	1:53:A:ILE:HB	10	0.22
(3,854)	1:104:A:VAL:HA	1:103:A:ILE:HB	7	0.22
(3,815)	1:123:A:ILE:HG12	1:123:A:ILE:HA	4	0.22
(3,815)	1:123:A:ILE:HG12	1:123:A:ILE:HA	8	0.22
(3,815)	1:123:A:ILE:HG12	1:123:A:ILE:HA	9	0.22
(3,782)	1:96:A:GLU:HB2	1:94:A:ILE:HD11	2	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,782)	1:96:A:GLU:HB2	1:94:A:ILE:HD12	2	0.22
(3,782)	1:96:A:GLU:HB2	1:94:A:ILE:HD13	2	0.22
(3,743)	1:37:A:ALA:HB1	1:50:A:VAL:HA	1	0.22
(3,735)	1:115:A:VAL:HG13	1:103:A:ILE:HD12	1	0.22
(3,680)	1:23:A:ILE:H	1:24:A:ILE:HD12	6	0.22
(3,646)	1:85:A:ARG:H	1:83:A:GLY:H	7	0.22
(3,598)	1:52:A:MET:H	1:52:A:MET:HB3	3	0.22
(3,595)	1:105:A:ILE:HB	1:106:A:GLU:H	4	0.22
(3,583)	1:118:A:ILE:HD13	1:122:A:ASP:HB3	5	0.22
(3,545)	1:49:A:VAL:HG11	1:49:A:VAL:HA	4	0.22
(3,487)	1:5:A:LYS:HG2	1:5:A:LYS:HE3	4	0.22
(3,485)	1:127:A:ALA:H	1:126:A:LEU:HB3	7	0.22
(3,481)	1:93:A:SER:H	1:93:A:SER:HB3	6	0.22
(3,450)	1:103:A:ILE:HG21	1:102:A:THR:HA	10	0.22
(3,396)	1:121:A:GLU:HA	1:123:A:ILE:HG22	2	0.22
(3,388)	1:73:A:PRO:HB2	1:73:A:PRO:HA	2	0.22
(3,388)	1:73:A:PRO:HB2	1:73:A:PRO:HA	4	0.22
(3,388)	1:73:A:PRO:HB2	1:73:A:PRO:HA	5	0.22
(3,388)	1:73:A:PRO:HB2	1:73:A:PRO:HA	6	0.22
(3,388)	1:73:A:PRO:HB2	1:73:A:PRO:HA	7	0.22
(3,388)	1:73:A:PRO:HB2	1:73:A:PRO:HA	8	0.22
(3,388)	1:73:A:PRO:HB2	1:73:A:PRO:HA	9	0.22
(3,388)	1:73:A:PRO:HB2	1:73:A:PRO:HA	10	0.22
(3,300)	1:11:A:THR:HG23	1:13:A:TYR:HE1	5	0.22
(3,264)	1:77:A:ILE:H	1:91:A:LEU:H	5	0.22
(3,121)	1:38:A:ILE:HB	1:38:A:ILE:HG22	5	0.22
(3,121)	1:38:A:ILE:HB	1:38:A:ILE:HG23	9	0.22
(3,121)	1:38:A:ILE:HB	1:38:A:ILE:HG23	10	0.22
(3,85)	1:39:A:VAL:HG23	1:50:A:VAL:HA	4	0.22
(3,85)	1:39:A:VAL:HG22	1:50:A:VAL:HA	8	0.22
(2,414)	1:27:A:LYS:HA	1:25:A:THR:HB	10	0.22
(2,362)	1:84:A:TYR:HB3	1:103:A:ILE:HG13	6	0.22
(1,3842)	1:46:A:TYR:HE1	1:45:A:LYS:HB2	9	0.22
(1,3842)	1:46:A:TYR:HE2	1:45:A:LYS:HB2	9	0.22
(1,3712)	1:87:A:ASN:HD21	1:84:A:TYR:H	1	0.22
(1,3705)	1:75:A:LYS:H	1:91:A:LEU:HA	4	0.22
(1,3696)	1:68:A:THR:H	1:14:A:TRP:HZ2	2	0.22
(1,3670)	1:48:A:ALA:H	1:42:A:VAL:HA	4	0.22
(1,3643)	1:13:A:TYR:H	1:63:A:GLN:HE21	3	0.22
(1,3612)	1:119:A:GLN:HB3	1:119:A:GLN:HE21	6	0.22
(1,3499)	1:37:A:ALA:H	1:36:A:LYS:HE2	5	0.22
(1,3470)	1:16:A:GLN:HB2	1:16:A:GLN:HE21	7	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3421)	1:10:A:ARG:H	1:82:A:GLY:HA3	5	0.22
(1,3385)	1:13:A:TYR:H	1:12:A:ASP:HB2	7	0.22
(1,3363)	1:15:A:LEU:H	1:15:A:LEU:HD11	8	0.22
(1,3363)	1:15:A:LEU:H	1:15:A:LEU:HD12	8	0.22
(1,3363)	1:15:A:LEU:H	1:15:A:LEU:HD13	8	0.22
(1,3278)	1:28:A:LEU:H	1:28:A:LEU:HD11	3	0.22
(1,3278)	1:28:A:LEU:H	1:28:A:LEU:HD12	3	0.22
(1,3278)	1:28:A:LEU:H	1:28:A:LEU:HD13	3	0.22
(1,3210)	1:36:A:LYS:H	1:36:A:LYS:HE3	5	0.22
(1,3163)	1:49:A:VAL:HG21	1:41:A:GLU:H	2	0.22
(1,3163)	1:49:A:VAL:HG22	1:41:A:GLU:H	2	0.22
(1,3163)	1:49:A:VAL:HG23	1:41:A:GLU:H	2	0.22
(1,3028)	1:51:A:LYS:HG2	1:56:A:GLY:H	1	0.22
(1,3021)	1:51:A:LYS:HD2	1:57:A:ASP:H	8	0.22
(1,2979)	1:62:A:ASP:H	1:65:A:HIS:HD2	8	0.22
(1,2967)	1:46:A:TYR:HB2	1:63:A:GLN:H	8	0.22
(1,2898)	1:69:A:VAL:H	1:69:A:VAL:HB	9	0.22
(1,2769)	1:84:A:TYR:H	1:105:A:ILE:HD11	5	0.22
(1,2769)	1:84:A:TYR:H	1:105:A:ILE:HD12	5	0.22
(1,2769)	1:84:A:TYR:H	1:105:A:ILE:HD13	5	0.22
(1,2767)	1:84:A:TYR:HB3	1:84:A:TYR:H	7	0.22
(1,2767)	1:84:A:TYR:HB3	1:84:A:TYR:H	9	0.22
(1,2767)	1:84:A:TYR:HB3	1:84:A:TYR:H	10	0.22
(1,2747)	1:85:A:ARG:HB3	1:86:A:GLY:H	3	0.22
(1,2675)	1:92:A:GLU:H	1:91:A:LEU:HG	7	0.22
(1,2661)	1:102:A:THR:H	1:93:A:SER:H	6	0.22
(1,2658)	1:91:A:LEU:HD11	1:94:A:ILE:H	5	0.22
(1,2658)	1:91:A:LEU:HD12	1:94:A:ILE:H	5	0.22
(1,2658)	1:91:A:LEU:HD13	1:94:A:ILE:H	5	0.22
(1,2604)	1:95:A:ASN:HB2	1:99:A:PHE:H	2	0.22
(1,2590)	1:100:A:SER:H	1:99:A:PHE:HB2	10	0.22
(1,2588)	1:100:A:SER:H	1:100:A:SER:HB3	6	0.22
(1,2529)	1:105:A:ILE:HG13	1:105:A:ILE:H	6	0.22
(1,2477)	1:110:A:LEU:HB3	1:111:A:LYS:H	5	0.22
(1,2477)	1:110:A:LEU:HB3	1:111:A:LYS:H	7	0.22
(1,2477)	1:110:A:LEU:HB3	1:111:A:LYS:H	8	0.22
(1,2468)	1:113:A:ARG:H	1:105:A:ILE:HG21	10	0.22
(1,2468)	1:113:A:ARG:H	1:105:A:ILE:HG22	10	0.22
(1,2468)	1:113:A:ARG:H	1:105:A:ILE:HG23	10	0.22
(1,2467)	1:113:A:ARG:H	1:105:A:ILE:HG13	4	0.22
(1,2461)	1:84:A:TYR:HE1	1:113:A:ARG:H	8	0.22
(1,2461)	1:84:A:TYR:HE2	1:113:A:ARG:H	8	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2454)	1:113:A:ARG:HD2	1:114:A:ARG:H	8	0.22
(1,2448)	1:115:A:VAL:H	1:103:A:ILE:HG13	3	0.22
(1,2404)	1:119:A:GLN:HB3	1:119:A:GLN:H	2	0.22
(1,2404)	1:119:A:GLN:HB3	1:119:A:GLN:H	6	0.22
(1,2382)	1:120:A:TYR:H	1:119:A:GLN:HB2	1	0.22
(1,2358)	1:122:A:ASP:H	1:121:A:GLU:HB2	8	0.22
(1,2358)	1:122:A:ASP:H	1:121:A:GLU:HB2	9	0.22
(1,2328)	1:126:A:LEU:H	1:125:A:LYS:H	5	0.22
(1,2275)	1:21:A:VAL:HG21	1:22:A:LYS:H	3	0.22
(1,2275)	1:21:A:VAL:HG22	1:22:A:LYS:H	3	0.22
(1,2275)	1:21:A:VAL:HG23	1:22:A:LYS:H	3	0.22
(1,2258)	1:23:A:ILE:HD11	1:32:A:TYR:HA	5	0.22
(1,2258)	1:23:A:ILE:HD12	1:32:A:TYR:HA	5	0.22
(1,2258)	1:23:A:ILE:HD13	1:32:A:TYR:HA	5	0.22
(1,2219)	1:120:A:TYR:H	1:101:A:ALA:HB1	8	0.22
(1,2219)	1:120:A:TYR:H	1:101:A:ALA:HB2	8	0.22
(1,2219)	1:120:A:TYR:H	1:101:A:ALA:HB3	8	0.22
(1,2137)	1:119:A:GLN:HG2	1:100:A:SER:HB2	7	0.22
(1,2124)	1:123:A:ILE:HD11	1:101:A:ALA:HA	4	0.22
(1,2124)	1:123:A:ILE:HD12	1:101:A:ALA:HA	4	0.22
(1,2124)	1:123:A:ILE:HD13	1:101:A:ALA:HA	4	0.22
(1,1938)	1:116:A:GLU:H	1:116:A:GLU:HG2	3	0.22
(1,1922)	1:115:A:VAL:HG11	1:113:A:ARG:HD2	8	0.22
(1,1922)	1:115:A:VAL:HG12	1:113:A:ARG:HD2	8	0.22
(1,1922)	1:115:A:VAL:HG13	1:113:A:ARG:HD2	8	0.22
(1,1888)	1:76:A:ARG:HD2	1:90:A:THR:HG21	4	0.22
(1,1888)	1:76:A:ARG:HD2	1:90:A:THR:HG22	4	0.22
(1,1888)	1:76:A:ARG:HD2	1:90:A:THR:HG23	4	0.22
(1,1887)	1:76:A:ARG:HD3	1:126:A:LEU:HD21	10	0.22
(1,1887)	1:76:A:ARG:HD3	1:126:A:LEU:HD22	10	0.22
(1,1887)	1:76:A:ARG:HD3	1:126:A:LEU:HD23	10	0.22
(1,1742)	1:84:A:TYR:HB2	1:105:A:ILE:HD11	8	0.22
(1,1742)	1:84:A:TYR:HB2	1:105:A:ILE:HD12	8	0.22
(1,1742)	1:84:A:TYR:HB2	1:105:A:ILE:HD13	8	0.22
(1,1731)	1:105:A:ILE:HG13	1:105:A:ILE:HA	8	0.22
(1,1657)	1:101:A:ALA:HB1	1:95:A:ASN:H	2	0.22
(1,1657)	1:101:A:ALA:HB2	1:95:A:ASN:H	2	0.22
(1,1657)	1:101:A:ALA:HB3	1:95:A:ASN:H	2	0.22
(1,1585)	1:94:A:ILE:HG21	1:101:A:ALA:HA	8	0.22
(1,1585)	1:94:A:ILE:HG22	1:101:A:ALA:HA	8	0.22
(1,1585)	1:94:A:ILE:HG23	1:101:A:ALA:HA	8	0.22
(1,1555)	1:93:A:SER:HA	1:73:A:PRO:HG2	7	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1537)	1:97:A:LYS:HB3	1:98:A:THR:H	6	0.22
(1,1519)	1:73:A:PRO:HA	1:91:A:LEU:HD11	1	0.22
(1,1519)	1:73:A:PRO:HA	1:91:A:LEU:HD12	1	0.22
(1,1519)	1:73:A:PRO:HA	1:91:A:LEU:HD13	1	0.22
(1,1313)	1:77:A:ILE:H	1:77:A:ILE:HG12	2	0.22
(1,1313)	1:77:A:ILE:H	1:77:A:ILE:HG12	4	0.22
(1,1313)	1:77:A:ILE:H	1:77:A:ILE:HG12	6	0.22
(1,1223)	1:73:A:PRO:HA	1:91:A:LEU:HG	6	0.22
(1,1209)	1:73:A:PRO:HD2	1:72:A:ALA:HA	8	0.22
(1,1200)	1:71:A:PRO:HD3	1:70:A:ILE:HG21	7	0.22
(1,1200)	1:71:A:PRO:HD3	1:70:A:ILE:HG22	7	0.22
(1,1200)	1:71:A:PRO:HD3	1:70:A:ILE:HG23	7	0.22
(1,1144)	1:68:A:THR:HA	1:69:A:VAL:HG11	4	0.22
(1,1144)	1:68:A:THR:HA	1:69:A:VAL:HG12	4	0.22
(1,1144)	1:68:A:THR:HA	1:69:A:VAL:HG13	4	0.22
(1,1104)	1:67:A:GLU:HA	1:67:A:GLU:HG2	4	0.22
(1,1104)	1:67:A:GLU:HA	1:67:A:GLU:HG2	6	0.22
(1,1036)	1:64:A:THR:HA	1:64:A:THR:HB	4	0.22
(1,971)	1:65:A:HIS:HB3	1:61:A:LEU:HB2	4	0.22
(1,951)	1:60:A:LYS:HA	1:50:A:VAL:H	8	0.22
(1,940)	1:61:A:LEU:HG	1:59:A:LEU:HD11	1	0.22
(1,940)	1:61:A:LEU:HG	1:59:A:LEU:HD12	1	0.22
(1,940)	1:61:A:LEU:HG	1:59:A:LEU:HD13	1	0.22
(1,918)	1:60:A:LYS:HB2	1:59:A:LEU:HA	6	0.22
(1,918)	1:60:A:LYS:HB2	1:59:A:LEU:HA	7	0.22
(1,849)	1:37:A:ALA:HA	1:53:A:ILE:HB	7	0.22
(1,832)	1:52:A:MET:H	1:52:A:MET:HG2	7	0.22
(1,787)	1:49:A:VAL:HG11	1:58:A:LYS:HG2	8	0.22
(1,787)	1:49:A:VAL:HG12	1:58:A:LYS:HG2	8	0.22
(1,787)	1:49:A:VAL:HG13	1:58:A:LYS:HG2	8	0.22
(1,780)	1:15:A:LEU:HA	1:48:A:ALA:HB1	5	0.22
(1,780)	1:15:A:LEU:HA	1:48:A:ALA:HB2	5	0.22
(1,780)	1:15:A:LEU:HA	1:48:A:ALA:HB3	5	0.22
(1,695)	1:14:A:TRP:HB3	1:80:A:LEU:HD11	4	0.22
(1,695)	1:14:A:TRP:HB3	1:80:A:LEU:HD12	4	0.22
(1,695)	1:14:A:TRP:HB3	1:80:A:LEU:HD13	4	0.22
(1,619)	1:42:A:VAL:HG11	1:41:A:GLU:HA	8	0.22
(1,619)	1:42:A:VAL:HG12	1:41:A:GLU:HA	8	0.22
(1,619)	1:42:A:VAL:HG13	1:41:A:GLU:HA	8	0.22
(1,458)	1:61:A:LEU:HD21	1:60:A:LYS:H	2	0.22
(1,458)	1:61:A:LEU:HD22	1:60:A:LYS:H	2	0.22
(1,458)	1:61:A:LEU:HD23	1:60:A:LYS:H	2	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1182)	1:98:A:THR:HG21	1:98:A:THR:HA	8	0.21
(3,973)	1:20:A:ILE:HG23	1:21:A:VAL:H	6	0.21
(3,973)	1:20:A:ILE:HG23	1:21:A:VAL:H	7	0.21
(3,931)	1:124:A:SER:HB3	1:123:A:ILE:HG23	10	0.21
(3,890)	1:78:A:LEU:HA	1:124:A:SER:H	1	0.21
(3,864)	1:53:A:ILE:HG23	1:53:A:ILE:HB	3	0.21
(3,864)	1:53:A:ILE:HG22	1:53:A:ILE:HB	5	0.21
(3,864)	1:53:A:ILE:HG23	1:53:A:ILE:HB	7	0.21
(3,815)	1:123:A:ILE:HG12	1:123:A:ILE:HA	1	0.21
(3,646)	1:85:A:ARG:H	1:83:A:GLY:H	6	0.21
(3,545)	1:49:A:VAL:HG13	1:49:A:VAL:HA	2	0.21
(3,545)	1:49:A:VAL:HG13	1:49:A:VAL:HA	5	0.21
(3,487)	1:75:A:LYS:HE3	1:75:A:LYS:HG3	3	0.21
(3,440)	1:103:A:ILE:H	1:117:A:GLY:H	5	0.21
(3,426)	1:119:A:GLN:HA	1:100:A:SER:H	9	0.21
(3,388)	1:73:A:PRO:HB2	1:73:A:PRO:HA	3	0.21
(3,381)	1:45:A:LYS:H	1:44:A:ASP:HB3	10	0.21
(3,353)	1:61:A:LEU:HD22	1:61:A:LEU:HB3	9	0.21
(3,353)	1:28:A:LEU:HD23	1:28:A:LEU:HB3	10	0.21
(3,144)	1:96:A:GLU:HB2	1:97:A:LYS:H	8	0.21
(3,139)	1:85:A:ARG:HA	1:79:A:VAL:HG13	9	0.21
(3,121)	1:38:A:ILE:HB	1:38:A:ILE:HG23	1	0.21
(3,107)	1:60:A:LYS:HD2	1:60:A:LYS:HE2	6	0.21
(2,609)	1:119:A:GLN:HE21	1:121:A:GLU:HB2	9	0.21
(2,393)	1:73:A:PRO:HG2	1:70:A:ILE:HG21	9	0.21
(2,393)	1:73:A:PRO:HG2	1:70:A:ILE:HG22	9	0.21
(2,393)	1:73:A:PRO:HG2	1:70:A:ILE:HG23	9	0.21
(2,357)	1:113:A:ARG:HA	1:115:A:VAL:HG11	4	0.21
(2,357)	1:113:A:ARG:HA	1:115:A:VAL:HG12	4	0.21
(2,357)	1:113:A:ARG:HA	1:115:A:VAL:HG13	4	0.21
(2,11)	1:9:A:ALA:HA	1:14:A:TRP:HA	3	0.21
(1,3792)	1:14:A:TRP:HD1	1:14:A:TRP:HB2	8	0.21
(1,3737)	1:5:A:LYS:H	1:3:A:GLU:H	4	0.21
(1,3670)	1:48:A:ALA:H	1:42:A:VAL:HA	8	0.21
(1,3575)	1:87:A:ASN:H	1:87:A:ASN:HD22	1	0.21
(1,3520)	1:52:A:MET:HG2	1:59:A:LEU:H	10	0.21
(1,3493)	1:26:A:LYS:HB2	1:33:A:HIS:H	5	0.21
(1,3470)	1:16:A:GLN:HB2	1:16:A:GLN:HE21	2	0.21
(1,3468)	1:80:A:LEU:HD21	1:16:A:GLN:HE21	1	0.21
(1,3468)	1:80:A:LEU:HD22	1:16:A:GLN:HE21	1	0.21
(1,3468)	1:80:A:LEU:HD23	1:16:A:GLN:HE21	1	0.21
(1,3449)	1:15:A:LEU:H	1:14:A:TRP:HE1	1	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3434)	1:63:A:GLN:HE22	1:14:A:TRP:HE1	9	0.21
(1,3395)	1:11:A:THR:H	1:81:A:ASN:HB3	5	0.21
(1,3309)	1:23:A:ILE:H	1:23:A:ILE:HD11	1	0.21
(1,3309)	1:23:A:ILE:H	1:23:A:ILE:HD12	1	0.21
(1,3309)	1:23:A:ILE:H	1:23:A:ILE:HD13	1	0.21
(1,3268)	1:32:A:TYR:HD1	1:29:A:GLY:H	6	0.21
(1,3268)	1:32:A:TYR:HD2	1:29:A:GLY:H	6	0.21
(1,3245)	1:30:A:GLU:HG3	1:33:A:HIS:H	9	0.21
(1,3146)	1:42:A:VAL:HG21	1:43:A:ILE:H	6	0.21
(1,3146)	1:42:A:VAL:HG22	1:43:A:ILE:H	6	0.21
(1,3146)	1:42:A:VAL:HG23	1:43:A:ILE:H	6	0.21
(1,3146)	1:42:A:VAL:HG21	1:43:A:ILE:H	10	0.21
(1,3146)	1:42:A:VAL:HG22	1:43:A:ILE:H	10	0.21
(1,3146)	1:42:A:VAL:HG23	1:43:A:ILE:H	10	0.21
(1,3134)	1:44:A:ASP:H	1:43:A:ILE:HG13	3	0.21
(1,3128)	1:47:A:THR:HB	1:44:A:ASP:H	8	0.21
(1,3122)	1:45:A:LYS:H	1:42:A:VAL:HG21	4	0.21
(1,3122)	1:45:A:LYS:H	1:42:A:VAL:HG22	4	0.21
(1,3122)	1:45:A:LYS:H	1:42:A:VAL:HG23	4	0.21
(1,3021)	1:51:A:LYS:HD2	1:57:A:ASP:H	9	0.21
(1,2930)	1:66:A:LEU:H	1:65:A:HIS:HB3	2	0.21
(1,2898)	1:69:A:VAL:H	1:69:A:VAL:HB	10	0.21
(1,2786)	1:81:A:ASN:H	1:86:A:GLY:H	2	0.21
(1,2775)	1:82:A:GLY:H	1:83:A:GLY:H	8	0.21
(1,2747)	1:85:A:ARG:HB3	1:86:A:GLY:H	8	0.21
(1,2732)	1:84:A:TYR:HB2	1:87:A:ASN:H	5	0.21
(1,2481)	1:106:A:GLU:HA	1:111:A:LYS:H	1	0.21
(1,2441)	1:84:A:TYR:HE1	1:116:A:GLU:H	4	0.21
(1,2441)	1:84:A:TYR:HE2	1:116:A:GLU:H	4	0.21
(1,2436)	1:115:A:VAL:HB	1:116:A:GLU:H	1	0.21
(1,2429)	1:93:A:SER:H	1:91:A:LEU:HG	2	0.21
(1,2404)	1:119:A:GLN:HB3	1:119:A:GLN:H	8	0.21
(1,2382)	1:120:A:TYR:H	1:119:A:GLN:HB2	9	0.21
(1,2328)	1:126:A:LEU:H	1:125:A:LYS:H	4	0.21
(1,2328)	1:126:A:LEU:H	1:125:A:LYS:H	8	0.21
(1,2316)	1:127:A:ALA:H	1:19:A:ILE:HB	1	0.21
(1,2285)	1:20:A:ILE:HA	1:20:A:ILE:HG12	5	0.21
(1,2285)	1:20:A:ILE:HA	1:20:A:ILE:HG12	6	0.21
(1,2285)	1:20:A:ILE:HA	1:20:A:ILE:HG12	7	0.21
(1,2285)	1:20:A:ILE:HA	1:20:A:ILE:HG12	10	0.21
(1,2275)	1:21:A:VAL:HG21	1:22:A:LYS:H	7	0.21
(1,2275)	1:21:A:VAL:HG22	1:22:A:LYS:H	7	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2275)	1:21:A:VAL:HG23	1:22:A:LYS:H	7	0.21
(1,2258)	1:23:A:ILE:HD11	1:32:A:TYR:HA	6	0.21
(1,2258)	1:23:A:ILE:HD12	1:32:A:TYR:HA	6	0.21
(1,2258)	1:23:A:ILE:HD13	1:32:A:TYR:HA	6	0.21
(1,2219)	1:120:A:TYR:H	1:101:A:ALA:HB1	1	0.21
(1,2219)	1:120:A:TYR:H	1:101:A:ALA:HB2	1	0.21
(1,2219)	1:120:A:TYR:H	1:101:A:ALA:HB3	1	0.21
(1,2207)	1:103:A:ILE:HG21	1:118:A:ILE:HB	8	0.21
(1,2207)	1:103:A:ILE:HG22	1:118:A:ILE:HB	8	0.21
(1,2207)	1:103:A:ILE:HG23	1:118:A:ILE:HB	8	0.21
(1,2110)	1:126:A:LEU:HB3	1:77:A:ILE:HG21	5	0.21
(1,2110)	1:126:A:LEU:HB3	1:77:A:ILE:HG22	5	0.21
(1,2110)	1:126:A:LEU:HB3	1:77:A:ILE:HG23	5	0.21
(1,2102)	1:126:A:LEU:HD21	1:77:A:ILE:H	8	0.21
(1,2102)	1:126:A:LEU:HD22	1:77:A:ILE:H	8	0.21
(1,2102)	1:126:A:LEU:HD23	1:77:A:ILE:H	8	0.21
(1,2032)	1:78:A:LEU:H	1:123:A:ILE:HG21	5	0.21
(1,2032)	1:78:A:LEU:H	1:123:A:ILE:HG22	5	0.21
(1,2032)	1:78:A:LEU:H	1:123:A:ILE:HG23	5	0.21
(1,2032)	1:78:A:LEU:H	1:123:A:ILE:HG21	9	0.21
(1,2032)	1:78:A:LEU:H	1:123:A:ILE:HG22	9	0.21
(1,2032)	1:78:A:LEU:H	1:123:A:ILE:HG23	9	0.21
(1,1950)	1:118:A:ILE:HA	1:101:A:ALA:H	9	0.21
(1,1777)	1:106:A:GLU:HB3	1:106:A:GLU:H	6	0.21
(1,1762)	1:105:A:ILE:HG21	1:106:A:GLU:HA	6	0.21
(1,1762)	1:105:A:ILE:HG22	1:106:A:GLU:HA	6	0.21
(1,1762)	1:105:A:ILE:HG23	1:106:A:GLU:HA	6	0.21
(1,1760)	1:105:A:ILE:HG21	1:111:A:LYS:H	10	0.21
(1,1760)	1:105:A:ILE:HG22	1:111:A:LYS:H	10	0.21
(1,1760)	1:105:A:ILE:HG23	1:111:A:LYS:H	10	0.21
(1,1758)	1:110:A:LEU:H	1:105:A:ILE:HG21	9	0.21
(1,1758)	1:110:A:LEU:H	1:105:A:ILE:HG22	9	0.21
(1,1758)	1:110:A:LEU:H	1:105:A:ILE:HG23	9	0.21
(1,1731)	1:105:A:ILE:HG13	1:105:A:ILE:HA	1	0.21
(1,1731)	1:105:A:ILE:HG13	1:105:A:ILE:HA	2	0.21
(1,1731)	1:105:A:ILE:HG13	1:105:A:ILE:HA	3	0.21
(1,1731)	1:105:A:ILE:HG13	1:105:A:ILE:HA	6	0.21
(1,1716)	1:103:A:ILE:HG21	1:102:A:THR:HA	10	0.21
(1,1716)	1:103:A:ILE:HG22	1:102:A:THR:HA	10	0.21
(1,1716)	1:103:A:ILE:HG23	1:102:A:THR:HA	10	0.21
(1,1714)	1:103:A:ILE:HG21	1:123:A:ILE:HG21	1	0.21
(1,1714)	1:103:A:ILE:HG21	1:123:A:ILE:HG22	1	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1714)	1:103:A:ILE:HG21	1:123:A:ILE:HG23	1	0.21
(1,1714)	1:103:A:ILE:HG22	1:123:A:ILE:HG21	1	0.21
(1,1714)	1:103:A:ILE:HG22	1:123:A:ILE:HG22	1	0.21
(1,1714)	1:103:A:ILE:HG22	1:123:A:ILE:HG23	1	0.21
(1,1714)	1:103:A:ILE:HG23	1:123:A:ILE:HG21	1	0.21
(1,1714)	1:103:A:ILE:HG23	1:123:A:ILE:HG22	1	0.21
(1,1714)	1:103:A:ILE:HG23	1:123:A:ILE:HG23	1	0.21
(1,1590)	1:95:A:ASN:HD22	1:95:A:ASN:HB2	3	0.21
(1,1590)	1:95:A:ASN:HD22	1:95:A:ASN:HB2	6	0.21
(1,1590)	1:95:A:ASN:HD22	1:95:A:ASN:HB2	8	0.21
(1,1590)	1:95:A:ASN:HD22	1:95:A:ASN:HB2	9	0.21
(1,1585)	1:94:A:ILE:HG21	1:101:A:ALA:HA	4	0.21
(1,1585)	1:94:A:ILE:HG22	1:101:A:ALA:HA	4	0.21
(1,1585)	1:94:A:ILE:HG23	1:101:A:ALA:HA	4	0.21
(1,1351)	1:48:A:ALA:HB1	1:42:A:VAL:HA	2	0.21
(1,1351)	1:48:A:ALA:HB2	1:42:A:VAL:HA	2	0.21
(1,1351)	1:48:A:ALA:HB3	1:42:A:VAL:HA	2	0.21
(1,1316)	1:126:A:LEU:H	1:77:A:ILE:HG21	6	0.21
(1,1316)	1:126:A:LEU:H	1:77:A:ILE:HG22	6	0.21
(1,1316)	1:126:A:LEU:H	1:77:A:ILE:HG23	6	0.21
(1,1036)	1:64:A:THR:HA	1:64:A:THR:HB	6	0.21
(1,1036)	1:64:A:THR:HA	1:64:A:THR:HB	10	0.21
(1,964)	1:60:A:LYS:HE2	1:60:A:LYS:HA	6	0.21
(1,951)	1:60:A:LYS:HA	1:50:A:VAL:H	5	0.21
(1,906)	1:58:A:LYS:H	1:57:A:ASP:HB2	5	0.21
(1,900)	1:57:A:ASP:HA	1:57:A:ASP:HB3	6	0.21
(1,900)	1:57:A:ASP:HA	1:57:A:ASP:HB3	8	0.21
(1,859)	1:37:A:ALA:HA	1:53:A:ILE:HD11	4	0.21
(1,859)	1:37:A:ALA:HA	1:53:A:ILE:HD12	4	0.21
(1,859)	1:37:A:ALA:HA	1:53:A:ILE:HD13	4	0.21
(1,659)	1:45:A:LYS:H	1:42:A:VAL:HG21	7	0.21
(1,659)	1:45:A:LYS:H	1:42:A:VAL:HG22	7	0.21
(1,659)	1:45:A:LYS:H	1:42:A:VAL:HG23	7	0.21
(1,629)	1:104:A:VAL:HB	1:104:A:VAL:H	2	0.21
(1,629)	1:104:A:VAL:HB	1:104:A:VAL:H	3	0.21
(1,629)	1:104:A:VAL:HB	1:104:A:VAL:H	5	0.21
(1,619)	1:42:A:VAL:HG11	1:41:A:GLU:HA	1	0.21
(1,619)	1:42:A:VAL:HG12	1:41:A:GLU:HA	1	0.21
(1,619)	1:42:A:VAL:HG13	1:41:A:GLU:HA	1	0.21
(1,574)	1:39:A:VAL:HG11	1:40:A:LYS:H	5	0.21
(1,574)	1:39:A:VAL:HG12	1:40:A:LYS:H	5	0.21
(1,574)	1:39:A:VAL:HG13	1:40:A:LYS:H	5	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,571)	1:39:A:VAL:HG11	1:50:A:VAL:HA	6	0.21
(1,571)	1:39:A:VAL:HG12	1:50:A:VAL:HA	6	0.21
(1,571)	1:39:A:VAL:HG13	1:50:A:VAL:HA	6	0.21
(1,548)	1:39:A:VAL:HA	1:50:A:VAL:HB	10	0.21
(1,458)	1:61:A:LEU:HD21	1:60:A:LYS:H	4	0.21
(1,458)	1:61:A:LEU:HD22	1:60:A:LYS:H	4	0.21
(1,458)	1:61:A:LEU:HD23	1:60:A:LYS:H	4	0.21
(1,453)	1:32:A:TYR:HD1	1:28:A:LEU:HD11	10	0.21
(1,453)	1:32:A:TYR:HD1	1:28:A:LEU:HD12	10	0.21
(1,453)	1:32:A:TYR:HD1	1:28:A:LEU:HD13	10	0.21
(1,453)	1:32:A:TYR:HD2	1:28:A:LEU:HD11	10	0.21
(1,453)	1:32:A:TYR:HD2	1:28:A:LEU:HD12	10	0.21
(1,453)	1:32:A:TYR:HD2	1:28:A:LEU:HD13	10	0.21
(1,440)	1:111:A:LYS:HD2	1:107:A:THR:HA	4	0.21
(1,390)	1:24:A:ILE:HD11	1:67:A:GLU:HB3	5	0.21
(1,390)	1:24:A:ILE:HD12	1:67:A:GLU:HB3	5	0.21
(1,390)	1:24:A:ILE:HD13	1:67:A:GLU:HB3	5	0.21
(1,266)	1:127:A:ALA:H	1:19:A:ILE:HG21	8	0.21
(1,266)	1:127:A:ALA:H	1:19:A:ILE:HG22	8	0.21
(1,266)	1:127:A:ALA:H	1:19:A:ILE:HG23	8	0.21
(1,265)	1:19:A:ILE:HG21	1:18:A:GLU:H	3	0.21
(1,265)	1:19:A:ILE:HG22	1:18:A:GLU:H	3	0.21
(1,265)	1:19:A:ILE:HG23	1:18:A:GLU:H	3	0.21
(1,143)	1:15:A:LEU:HD11	1:63:A:GLN:HB2	8	0.21
(1,143)	1:15:A:LEU:HD12	1:63:A:GLN:HB2	8	0.21
(1,143)	1:15:A:LEU:HD13	1:63:A:GLN:HB2	8	0.21
(3,1087)	1:61:A:LEU:HD21	1:59:A:LEU:HB3	3	0.2
(3,1087)	1:61:A:LEU:HD22	1:59:A:LEU:HB3	3	0.2
(3,1087)	1:61:A:LEU:HD23	1:59:A:LEU:HB3	3	0.2
(3,1074)	1:78:A:LEU:H	1:77:A:ILE:HD12	9	0.2
(3,988)	1:96:A:GLU:HA	1:99:A:PHE:H	6	0.2
(3,973)	1:20:A:ILE:HG23	1:21:A:VAL:H	4	0.2
(3,928)	1:120:A:TYR:HA	1:123:A:ILE:HG21	3	0.2
(3,890)	1:68:A:THR:HB	1:124:A:SER:H	3	0.2
(3,885)	1:69:A:VAL:HG23	1:125:A:LYS:HB2	2	0.2
(3,855)	1:17:A:PRO:HD3	1:16:A:GLN:HB2	5	0.2
(3,855)	1:17:A:PRO:HD3	1:16:A:GLN:HB2	7	0.2
(3,855)	1:17:A:PRO:HD3	1:16:A:GLN:HB2	10	0.2
(3,815)	1:123:A:ILE:HG12	1:123:A:ILE:HA	3	0.2
(3,799)	1:48:A:ALA:H	1:60:A:LYS:HD3	1	0.2
(3,799)	1:48:A:ALA:H	1:60:A:LYS:HD3	4	0.2
(3,743)	1:37:A:ALA:HB3	1:50:A:VAL:HA	3	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,595)	1:106:A:GLU:HG3	1:106:A:GLU:H	9	0.2
(3,516)	1:118:A:ILE:HG13	1:117:A:GLY:HA2	1	0.2
(3,516)	1:118:A:ILE:HG13	1:117:A:GLY:HA2	2	0.2
(3,487)	1:5:A:LYS:HE2	1:5:A:LYS:HG3	5	0.2
(3,423)	1:61:A:LEU:HD11	1:25:A:THR:H	3	0.2
(3,381)	1:45:A:LYS:H	1:44:A:ASP:HB3	6	0.2
(3,366)	1:42:A:VAL:HG23	1:16:A:GLN:HG2	4	0.2
(3,353)	1:61:A:LEU:HD21	1:61:A:LEU:HB3	3	0.2
(3,345)	1:35:A:LYS:H	1:22:A:LYS:HG3	4	0.2
(3,180)	1:65:A:HIS:H	1:62:A:ASP:HB3	2	0.2
(3,180)	1:65:A:HIS:H	1:62:A:ASP:HB3	3	0.2
(3,177)	1:40:A:LYS:HE3	1:40:A:LYS:HA	3	0.2
(3,121)	1:38:A:ILE:HB	1:38:A:ILE:HG21	8	0.2
(3,107)	1:60:A:LYS:HD2	1:60:A:LYS:HE2	7	0.2
(3,107)	1:60:A:LYS:HD2	1:60:A:LYS:HE2	8	0.2
(3,107)	1:60:A:LYS:HD2	1:60:A:LYS:HE2	9	0.2
(3,4)	1:102:A:THR:HG23	1:116:A:GLU:H	4	0.2
(2,386)	1:95:A:ASN:HB2	1:99:A:PHE:HA	1	0.2
(2,357)	1:113:A:ARG:HA	1:115:A:VAL:HG11	6	0.2
(2,357)	1:113:A:ARG:HA	1:115:A:VAL:HG12	6	0.2
(2,357)	1:113:A:ARG:HA	1:115:A:VAL:HG13	6	0.2
(1,3866)	1:120:A:TYR:HE1	1:99:A:PHE:H	4	0.2
(1,3866)	1:120:A:TYR:HE2	1:99:A:PHE:H	4	0.2
(1,3792)	1:14:A:TRP:HD1	1:14:A:TRP:HB2	10	0.2
(1,3779)	1:46:A:TYR:HD1	1:63:A:GLN:HG3	5	0.2
(1,3779)	1:46:A:TYR:HD2	1:63:A:GLN:HG3	5	0.2
(1,3775)	1:13:A:TYR:HB2	1:46:A:TYR:HD1	5	0.2
(1,3775)	1:13:A:TYR:HB2	1:46:A:TYR:HD2	5	0.2
(1,3775)	1:13:A:TYR:HB2	1:46:A:TYR:HD1	6	0.2
(1,3775)	1:13:A:TYR:HB2	1:46:A:TYR:HD2	6	0.2
(1,3759)	1:27:A:LYS:HG3	1:65:A:HIS:HE1	3	0.2
(1,3752)	1:34:A:LYS:HG2	1:33:A:HIS:HE1	7	0.2
(1,3670)	1:48:A:ALA:H	1:42:A:VAL:HA	6	0.2
(1,3643)	1:13:A:TYR:H	1:63:A:GLN:HE21	1	0.2
(1,3643)	1:13:A:TYR:H	1:63:A:GLN:HE21	2	0.2
(1,3615)	1:119:A:GLN:HE21	1:100:A:SER:HB2	4	0.2
(1,3560)	1:10:A:ARG:HB2	1:81:A:ASN:HD21	7	0.2
(1,3556)	1:10:A:ARG:HB2	1:81:A:ASN:HD21	10	0.2
(1,3547)	1:84:A:TYR:HB2	1:79:A:VAL:H	10	0.2
(1,3511)	1:43:A:ILE:H	1:41:A:GLU:HG3	3	0.2
(1,3470)	1:16:A:GLN:HB2	1:16:A:GLN:HE21	4	0.2
(1,3470)	1:16:A:GLN:HB2	1:16:A:GLN:HE21	9	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3397)	1:10:A:ARG:HB3	1:11:A:THR:H	4	0.2
(1,2958)	1:64:A:THR:H	1:63:A:GLN:HB2	2	0.2
(1,2958)	1:64:A:THR:H	1:63:A:GLN:HB3	5	0.2
(1,2930)	1:66:A:LEU:H	1:65:A:HIS:HB3	5	0.2
(1,2930)	1:66:A:LEU:H	1:65:A:HIS:HB3	7	0.2
(1,2898)	1:69:A:VAL:H	1:69:A:VAL:HB	6	0.2
(1,2843)	1:105:A:ILE:HG21	1:112:A:GLY:H	2	0.2
(1,2843)	1:105:A:ILE:HG22	1:112:A:GLY:H	2	0.2
(1,2843)	1:105:A:ILE:HG23	1:112:A:GLY:H	2	0.2
(1,2831)	1:78:A:LEU:H	1:123:A:ILE:HB	6	0.2
(1,2767)	1:84:A:TYR:HB3	1:84:A:TYR:H	3	0.2
(1,2658)	1:91:A:LEU:HD11	1:94:A:ILE:H	9	0.2
(1,2658)	1:91:A:LEU:HD12	1:94:A:ILE:H	9	0.2
(1,2658)	1:91:A:LEU:HD13	1:94:A:ILE:H	9	0.2
(1,2634)	1:96:A:GLU:HG3	1:96:A:GLU:H	5	0.2
(1,2630)	1:96:A:GLU:H	1:98:A:THR:H	9	0.2
(1,2592)	1:97:A:LYS:HB3	1:100:A:SER:H	1	0.2
(1,2590)	1:100:A:SER:H	1:99:A:PHE:HB2	3	0.2
(1,2573)	1:101:A:ALA:H	1:100:A:SER:HB2	4	0.2
(1,2494)	1:108:A:GLY:H	1:111:A:LYS:HE3	6	0.2
(1,2473)	1:105:A:ILE:HD11	1:111:A:LYS:H	10	0.2
(1,2473)	1:105:A:ILE:HD12	1:111:A:LYS:H	10	0.2
(1,2473)	1:105:A:ILE:HD13	1:111:A:LYS:H	10	0.2
(1,2461)	1:84:A:TYR:HE1	1:113:A:ARG:H	7	0.2
(1,2461)	1:84:A:TYR:HE2	1:113:A:ARG:H	7	0.2
(1,2459)	1:113:A:ARG:H	1:107:A:THR:H	8	0.2
(1,2429)	1:93:A:SER:H	1:91:A:LEU:HG	4	0.2
(1,2382)	1:120:A:TYR:H	1:119:A:GLN:HB2	5	0.2
(1,2335)	1:68:A:THR:HB	1:125:A:LYS:H	8	0.2
(1,2328)	1:126:A:LEU:H	1:125:A:LYS:H	6	0.2
(1,2328)	1:126:A:LEU:H	1:125:A:LYS:H	9	0.2
(1,2285)	1:20:A:ILE:HA	1:20:A:ILE:HG12	1	0.2
(1,2258)	1:23:A:ILE:HD11	1:32:A:TYR:HA	7	0.2
(1,2258)	1:23:A:ILE:HD12	1:32:A:TYR:HA	7	0.2
(1,2258)	1:23:A:ILE:HD13	1:32:A:TYR:HA	7	0.2
(1,2240)	1:79:A:VAL:HG11	1:123:A:ILE:HG21	2	0.2
(1,2240)	1:79:A:VAL:HG11	1:123:A:ILE:HG22	2	0.2
(1,2240)	1:79:A:VAL:HG11	1:123:A:ILE:HG23	2	0.2
(1,2240)	1:79:A:VAL:HG12	1:123:A:ILE:HG21	2	0.2
(1,2240)	1:79:A:VAL:HG12	1:123:A:ILE:HG22	2	0.2
(1,2240)	1:79:A:VAL:HG12	1:123:A:ILE:HG23	2	0.2
(1,2240)	1:79:A:VAL:HG13	1:123:A:ILE:HG21	2	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2240)	1:79:A:VAL:HG13	1:123:A:ILE:HG22	2	0.2
(1,2240)	1:79:A:VAL:HG13	1:123:A:ILE:HG23	2	0.2
(1,2219)	1:120:A:TYR:H	1:101:A:ALA:HB1	5	0.2
(1,2219)	1:120:A:TYR:H	1:101:A:ALA:HB2	5	0.2
(1,2219)	1:120:A:TYR:H	1:101:A:ALA:HB3	5	0.2
(1,2211)	1:84:A:TYR:HE1	1:103:A:ILE:HD11	9	0.2
(1,2211)	1:84:A:TYR:HE1	1:103:A:ILE:HD12	9	0.2
(1,2211)	1:84:A:TYR:HE1	1:103:A:ILE:HD13	9	0.2
(1,2211)	1:84:A:TYR:HE2	1:103:A:ILE:HD11	9	0.2
(1,2211)	1:84:A:TYR:HE2	1:103:A:ILE:HD12	9	0.2
(1,2211)	1:84:A:TYR:HE2	1:103:A:ILE:HD13	9	0.2
(1,2197)	1:106:A:GLU:HB2	1:105:A:ILE:HA	3	0.2
(1,2157)	1:117:A:GLY:HA3	1:100:A:SER:HB3	7	0.2
(1,2148)	1:93:A:SER:H	1:91:A:LEU:HG	9	0.2
(1,2124)	1:123:A:ILE:HD11	1:101:A:ALA:HA	3	0.2
(1,2124)	1:123:A:ILE:HD12	1:101:A:ALA:HA	3	0.2
(1,2124)	1:123:A:ILE:HD13	1:101:A:ALA:HA	3	0.2
(1,2122)	1:78:A:LEU:HA	1:123:A:ILE:HG21	7	0.2
(1,2122)	1:78:A:LEU:HA	1:123:A:ILE:HG22	7	0.2
(1,2122)	1:78:A:LEU:HA	1:123:A:ILE:HG23	7	0.2
(1,1960)	1:118:A:ILE:HG13	1:118:A:ILE:H	7	0.2
(1,1950)	1:118:A:ILE:HA	1:101:A:ALA:H	5	0.2
(1,1936)	1:116:A:GLU:H	1:116:A:GLU:HG2	10	0.2
(1,1760)	1:105:A:ILE:HG21	1:111:A:LYS:H	4	0.2
(1,1760)	1:105:A:ILE:HG22	1:111:A:LYS:H	4	0.2
(1,1760)	1:105:A:ILE:HG23	1:111:A:LYS:H	4	0.2
(1,1738)	1:105:A:ILE:H	1:105:A:ILE:HD11	6	0.2
(1,1738)	1:105:A:ILE:H	1:105:A:ILE:HD12	6	0.2
(1,1738)	1:105:A:ILE:H	1:105:A:ILE:HD13	6	0.2
(1,1731)	1:105:A:ILE:HG13	1:105:A:ILE:HA	7	0.2
(1,1731)	1:105:A:ILE:HG13	1:105:A:ILE:HA	10	0.2
(1,1688)	1:103:A:ILE:HB	1:103:A:ILE:H	1	0.2
(1,1590)	1:95:A:ASN:HD22	1:95:A:ASN:HB2	5	0.2
(1,1590)	1:95:A:ASN:HD22	1:95:A:ASN:HB2	7	0.2
(1,1590)	1:95:A:ASN:HD22	1:95:A:ASN:HB2	10	0.2
(1,1459)	1:87:A:ASN:H	1:87:A:ASN:HB3	4	0.2
(1,1459)	1:87:A:ASN:H	1:87:A:ASN:HB3	7	0.2
(1,1352)	1:90:A:THR:HG21	1:74:A:GLY:HA2	5	0.2
(1,1352)	1:90:A:THR:HG22	1:74:A:GLY:HA2	5	0.2
(1,1352)	1:90:A:THR:HG23	1:74:A:GLY:HA2	5	0.2
(1,1313)	1:77:A:ILE:H	1:77:A:ILE:HG12	5	0.2
(1,1306)	1:77:A:ILE:HD11	1:90:A:THR:HA	9	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1306)	1:77:A:ILE:HD12	1:90:A:THR:HA	9	0.2
(1,1306)	1:77:A:ILE:HD13	1:90:A:THR:HA	9	0.2
(1,1301)	1:125:A:LYS:HA	1:77:A:ILE:HB	10	0.2
(1,1277)	1:97:A:LYS:HB3	1:98:A:THR:H	10	0.2
(1,1209)	1:73:A:PRO:HD2	1:72:A:ALA:HA	9	0.2
(1,1144)	1:68:A:THR:HA	1:69:A:VAL:HG11	1	0.2
(1,1144)	1:68:A:THR:HA	1:69:A:VAL:HG12	1	0.2
(1,1144)	1:68:A:THR:HA	1:69:A:VAL:HG13	1	0.2
(1,1062)	1:65:A:HIS:HB3	1:61:A:LEU:HB2	8	0.2
(1,1021)	1:15:A:LEU:HD11	1:63:A:GLN:HB2	10	0.2
(1,1021)	1:15:A:LEU:HD12	1:63:A:GLN:HB2	10	0.2
(1,1021)	1:15:A:LEU:HD13	1:63:A:GLN:HB2	10	0.2
(1,957)	1:60:A:LYS:HB3	1:59:A:LEU:HA	1	0.2
(1,918)	1:60:A:LYS:HB2	1:59:A:LEU:HA	5	0.2
(1,918)	1:60:A:LYS:HB2	1:59:A:LEU:HA	9	0.2
(1,900)	1:57:A:ASP:HA	1:57:A:ASP:HB3	5	0.2
(1,888)	1:54:A:ASP:HB2	1:53:A:ILE:HB	9	0.2
(1,877)	1:60:A:LYS:HD2	1:60:A:LYS:HA	1	0.2
(1,877)	1:60:A:LYS:HD2	1:60:A:LYS:HA	7	0.2
(1,859)	1:37:A:ALA:HA	1:53:A:ILE:HD11	6	0.2
(1,859)	1:37:A:ALA:HA	1:53:A:ILE:HD12	6	0.2
(1,859)	1:37:A:ALA:HA	1:53:A:ILE:HD13	6	0.2
(1,780)	1:15:A:LEU:HA	1:48:A:ALA:HB1	2	0.2
(1,780)	1:15:A:LEU:HA	1:48:A:ALA:HB2	2	0.2
(1,780)	1:15:A:LEU:HA	1:48:A:ALA:HB3	2	0.2
(1,763)	1:47:A:THR:HB	1:43:A:ILE:HG21	7	0.2
(1,763)	1:47:A:THR:HB	1:43:A:ILE:HG22	7	0.2
(1,763)	1:47:A:THR:HB	1:43:A:ILE:HG23	7	0.2
(1,660)	1:15:A:LEU:H	1:42:A:VAL:HG21	4	0.2
(1,660)	1:15:A:LEU:H	1:42:A:VAL:HG22	4	0.2
(1,660)	1:15:A:LEU:H	1:42:A:VAL:HG23	4	0.2
(1,660)	1:15:A:LEU:H	1:42:A:VAL:HG21	7	0.2
(1,660)	1:15:A:LEU:H	1:42:A:VAL:HG22	7	0.2
(1,660)	1:15:A:LEU:H	1:42:A:VAL:HG23	7	0.2
(1,654)	1:15:A:LEU:HB2	1:42:A:VAL:HG11	6	0.2
(1,654)	1:15:A:LEU:HB2	1:42:A:VAL:HG12	6	0.2
(1,654)	1:15:A:LEU:HB2	1:42:A:VAL:HG13	6	0.2
(1,619)	1:42:A:VAL:HG11	1:41:A:GLU:HA	4	0.2
(1,619)	1:42:A:VAL:HG12	1:41:A:GLU:HA	4	0.2
(1,619)	1:42:A:VAL:HG13	1:41:A:GLU:HA	4	0.2
(1,619)	1:42:A:VAL:HG11	1:41:A:GLU:HA	9	0.2
(1,619)	1:42:A:VAL:HG12	1:41:A:GLU:HA	9	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,619)	1:42:A:VAL:HG13	1:41:A:GLU:HA	9	0.2
(1,585)	1:127:A:ALA:HA	1:38:A:ILE:HD11	1	0.2
(1,585)	1:127:A:ALA:HA	1:38:A:ILE:HD12	1	0.2
(1,585)	1:127:A:ALA:HA	1:38:A:ILE:HD13	1	0.2
(1,563)	1:39:A:VAL:HG21	1:19:A:ILE:H	2	0.2
(1,563)	1:39:A:VAL:HG22	1:19:A:ILE:H	2	0.2
(1,563)	1:39:A:VAL:HG23	1:19:A:ILE:H	2	0.2
(1,563)	1:39:A:VAL:HG21	1:19:A:ILE:H	3	0.2
(1,563)	1:39:A:VAL:HG22	1:19:A:ILE:H	3	0.2
(1,563)	1:39:A:VAL:HG23	1:19:A:ILE:H	3	0.2
(1,387)	1:65:A:HIS:HA	1:24:A:ILE:HD11	9	0.2
(1,387)	1:65:A:HIS:HA	1:24:A:ILE:HD12	9	0.2
(1,387)	1:65:A:HIS:HA	1:24:A:ILE:HD13	9	0.2
(1,353)	1:35:A:LYS:H	1:23:A:ILE:HD11	4	0.2
(1,353)	1:35:A:LYS:H	1:23:A:ILE:HD12	4	0.2
(1,353)	1:35:A:LYS:H	1:23:A:ILE:HD13	4	0.2
(1,266)	1:127:A:ALA:H	1:19:A:ILE:HG21	10	0.2
(1,266)	1:127:A:ALA:H	1:19:A:ILE:HG22	10	0.2
(1,266)	1:127:A:ALA:H	1:19:A:ILE:HG23	10	0.2
(1,52)	1:61:A:LEU:HD11	1:25:A:THR:HB	7	0.2
(1,52)	1:61:A:LEU:HD12	1:25:A:THR:HB	7	0.2
(1,52)	1:61:A:LEU:HD13	1:25:A:THR:HB	7	0.2
(3,1173)	1:84:A:TYR:HE2	1:113:A:ARG:HG2	5	0.19
(3,1128)	1:72:A:ALA:H	1:71:A:PRO:HB3	1	0.19
(3,1076)	1:97:A:LYS:H	1:97:A:LYS:HD2	3	0.19
(3,816)	1:77:A:ILE:H	1:91:A:LEU:H	6	0.19
(3,595)	1:106:A:GLU:HG3	1:106:A:GLU:H	8	0.19
(3,545)	1:49:A:VAL:HG13	1:49:A:VAL:HA	9	0.19
(3,523)	1:20:A:ILE:HG22	1:127:A:ALA:HA	6	0.19
(3,487)	1:6:A:LYS:HG3	1:6:A:LYS:HE2	8	0.19
(3,481)	1:93:A:SER:H	1:93:A:SER:HB3	5	0.19
(3,426)	1:119:A:GLN:HA	1:100:A:SER:H	1	0.19
(3,426)	1:119:A:GLN:HA	1:100:A:SER:H	4	0.19
(3,426)	1:119:A:GLN:HA	1:100:A:SER:H	5	0.19
(3,409)	1:96:A:GLU:HB2	1:96:A:GLU:HG3	5	0.19
(3,167)	1:118:A:ILE:HG22	1:122:A:ASP:H	2	0.19
(3,153)	1:91:A:LEU:HD11	1:102:A:THR:H	9	0.19
(3,140)	1:24:A:ILE:HG21	1:67:A:GLU:HG2	4	0.19
(3,133)	1:100:A:SER:H	1:99:A:PHE:HB2	6	0.19
(3,128)	1:77:A:ILE:HD11	1:123:A:ILE:HG23	9	0.19
(3,109)	1:3:A:GLU:HB3	1:3:A:GLU:HG2	1	0.19
(3,107)	1:60:A:LYS:HD2	1:60:A:LYS:HE2	1	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,43)	1:77:A:ILE:H	1:77:A:ILE:HD13	3	0.19
(3,23)	1:127:A:ALA:HB1	1:18:A:GLU:H	7	0.19
(3,1)	1:19:A:ILE:HA	1:19:A:ILE:HG13	8	0.19
(2,617)	1:24:A:ILE:HA	1:33:A:HIS:H	4	0.19
(2,609)	1:119:A:GLN:HE21	1:121:A:GLU:HB2	10	0.19
(2,608)	1:89:A:GLY:H	1:107:A:THR:H	6	0.19
(2,362)	1:84:A:TYR:HB3	1:103:A:ILE:HG13	5	0.19
(1,3792)	1:14:A:TRP:HD1	1:14:A:TRP:HB2	2	0.19
(1,3792)	1:14:A:TRP:HD1	1:14:A:TRP:HB2	4	0.19
(1,3792)	1:14:A:TRP:HD1	1:14:A:TRP:HB2	6	0.19
(1,3792)	1:14:A:TRP:HD1	1:14:A:TRP:HB2	7	0.19
(1,3753)	1:34:A:LYS:HD2	1:33:A:HIS:HE1	7	0.19
(1,3718)	1:87:A:ASN:HD21	1:79:A:VAL:HB	7	0.19
(1,3715)	1:84:A:TYR:HE1	1:87:A:ASN:HD22	8	0.19
(1,3715)	1:84:A:TYR:HE2	1:87:A:ASN:HD22	8	0.19
(1,3695)	1:68:A:THR:H	1:121:A:GLU:HB2	5	0.19
(1,3670)	1:48:A:ALA:H	1:42:A:VAL:HA	1	0.19
(1,3642)	1:13:A:TYR:H	1:45:A:LYS:HB2	2	0.19
(1,3615)	1:119:A:GLN:HE21	1:100:A:SER:HB2	10	0.19
(1,3544)	1:66:A:LEU:HD11	1:65:A:HIS:H	10	0.19
(1,3544)	1:66:A:LEU:HD12	1:65:A:HIS:H	10	0.19
(1,3544)	1:66:A:LEU:HD13	1:65:A:HIS:H	10	0.19
(1,3485)	1:23:A:ILE:H	1:33:A:HIS:HA	6	0.19
(1,3391)	1:11:A:THR:H	1:81:A:ASN:HD22	3	0.19
(1,3243)	1:30:A:GLU:HB3	1:33:A:HIS:H	2	0.19
(1,3208)	1:36:A:LYS:HG2	1:36:A:LYS:H	5	0.19
(1,3133)	1:44:A:ASP:H	1:43:A:ILE:HG12	3	0.19
(1,3128)	1:47:A:THR:HB	1:44:A:ASP:H	7	0.19
(1,2930)	1:66:A:LEU:H	1:65:A:HIS:HB3	3	0.19
(1,2930)	1:66:A:LEU:H	1:65:A:HIS:HB3	6	0.19
(1,2930)	1:66:A:LEU:H	1:65:A:HIS:HB3	10	0.19
(1,2869)	1:91:A:LEU:HB2	1:74:A:GLY:H	10	0.19
(1,2802)	1:81:A:ASN:HB3	1:80:A:LEU:H	2	0.19
(1,2775)	1:82:A:GLY:H	1:83:A:GLY:H	2	0.19
(1,2775)	1:82:A:GLY:H	1:83:A:GLY:H	4	0.19
(1,2767)	1:84:A:TYR:HB3	1:84:A:TYR:H	1	0.19
(1,2767)	1:84:A:TYR:HB3	1:84:A:TYR:H	5	0.19
(1,2747)	1:85:A:ARG:HB3	1:86:A:GLY:H	10	0.19
(1,2675)	1:92:A:GLU:H	1:91:A:LEU:HG	4	0.19
(1,2633)	1:96:A:GLU:H	1:95:A:ASN:HB3	7	0.19
(1,2630)	1:96:A:GLU:H	1:98:A:THR:H	7	0.19
(1,2588)	1:100:A:SER:H	1:100:A:SER:HB3	4	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2588)	1:100:A:SER:H	1:100:A:SER:HB3	5	0.19
(1,2565)	1:117:A:GLY:H	1:101:A:ALA:H	4	0.19
(1,2529)	1:105:A:ILE:HG13	1:105:A:ILE:H	3	0.19
(1,2468)	1:113:A:ARG:H	1:105:A:ILE:HG21	4	0.19
(1,2468)	1:113:A:ARG:H	1:105:A:ILE:HG22	4	0.19
(1,2468)	1:113:A:ARG:H	1:105:A:ILE:HG23	4	0.19
(1,2468)	1:113:A:ARG:H	1:105:A:ILE:HG21	5	0.19
(1,2468)	1:113:A:ARG:H	1:105:A:ILE:HG22	5	0.19
(1,2468)	1:113:A:ARG:H	1:105:A:ILE:HG23	5	0.19
(1,2447)	1:115:A:VAL:HB	1:115:A:VAL:H	3	0.19
(1,2447)	1:115:A:VAL:HB	1:115:A:VAL:H	5	0.19
(1,2442)	1:103:A:ILE:H	1:116:A:GLU:H	10	0.19
(1,2382)	1:120:A:TYR:H	1:119:A:GLN:HB2	4	0.19
(1,2328)	1:126:A:LEU:H	1:125:A:LYS:H	2	0.19
(1,2316)	1:127:A:ALA:H	1:19:A:ILE:HB	10	0.19
(1,2275)	1:21:A:VAL:HG21	1:22:A:LYS:H	2	0.19
(1,2275)	1:21:A:VAL:HG22	1:22:A:LYS:H	2	0.19
(1,2275)	1:21:A:VAL:HG23	1:22:A:LYS:H	2	0.19
(1,2271)	1:28:A:LEU:HD21	1:28:A:LEU:HA	9	0.19
(1,2271)	1:28:A:LEU:HD22	1:28:A:LEU:HA	9	0.19
(1,2271)	1:28:A:LEU:HD23	1:28:A:LEU:HA	9	0.19
(1,2252)	1:40:A:LYS:HE3	1:40:A:LYS:HG3	8	0.19
(1,2251)	1:60:A:LYS:HE2	1:49:A:VAL:HA	7	0.19
(1,2221)	1:91:A:LEU:HD21	1:101:A:ALA:HA	2	0.19
(1,2221)	1:91:A:LEU:HD22	1:101:A:ALA:HA	2	0.19
(1,2221)	1:91:A:LEU:HD23	1:101:A:ALA:HA	2	0.19
(1,2219)	1:120:A:TYR:H	1:101:A:ALA:HB1	3	0.19
(1,2219)	1:120:A:TYR:H	1:101:A:ALA:HB2	3	0.19
(1,2219)	1:120:A:TYR:H	1:101:A:ALA:HB3	3	0.19
(1,2211)	1:84:A:TYR:HE1	1:103:A:ILE:HD11	5	0.19
(1,2211)	1:84:A:TYR:HE1	1:103:A:ILE:HD12	5	0.19
(1,2211)	1:84:A:TYR:HE1	1:103:A:ILE:HD13	5	0.19
(1,2211)	1:84:A:TYR:HE2	1:103:A:ILE:HD11	5	0.19
(1,2211)	1:84:A:TYR:HE2	1:103:A:ILE:HD12	5	0.19
(1,2211)	1:84:A:TYR:HE2	1:103:A:ILE:HD13	5	0.19
(1,2124)	1:123:A:ILE:HD11	1:101:A:ALA:HA	6	0.19
(1,2124)	1:123:A:ILE:HD12	1:101:A:ALA:HA	6	0.19
(1,2124)	1:123:A:ILE:HD13	1:101:A:ALA:HA	6	0.19
(1,2047)	1:80:A:LEU:HD11	1:124:A:SER:HB2	6	0.19
(1,2047)	1:80:A:LEU:HD12	1:124:A:SER:HB2	6	0.19
(1,2047)	1:80:A:LEU:HD13	1:124:A:SER:HB2	6	0.19
(1,1966)	1:118:A:ILE:HG21	1:122:A:ASP:H	1	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1966)	1:118:A:ILE:HG22	1:122:A:ASP:H	1	0.19
(1,1966)	1:118:A:ILE:HG23	1:122:A:ASP:H	1	0.19
(1,1960)	1:118:A:ILE:HG13	1:118:A:ILE:H	5	0.19
(1,1950)	1:118:A:ILE:HA	1:101:A:ALA:H	6	0.19
(1,1950)	1:118:A:ILE:HA	1:101:A:ALA:H	8	0.19
(1,1882)	1:113:A:ARG:HA	1:113:A:ARG:HD2	7	0.19
(1,1836)	1:110:A:LEU:HB2	1:105:A:ILE:HD11	2	0.19
(1,1836)	1:110:A:LEU:HB2	1:105:A:ILE:HD12	2	0.19
(1,1836)	1:110:A:LEU:HB2	1:105:A:ILE:HD13	2	0.19
(1,1836)	1:110:A:LEU:HB2	1:105:A:ILE:HD11	9	0.19
(1,1836)	1:110:A:LEU:HB2	1:105:A:ILE:HD12	9	0.19
(1,1836)	1:110:A:LEU:HB2	1:105:A:ILE:HD13	9	0.19
(1,1777)	1:106:A:GLU:HB3	1:106:A:GLU:H	3	0.19
(1,1760)	1:105:A:ILE:HG21	1:111:A:LYS:H	1	0.19
(1,1760)	1:105:A:ILE:HG22	1:111:A:LYS:H	1	0.19
(1,1760)	1:105:A:ILE:HG23	1:111:A:LYS:H	1	0.19
(1,1731)	1:105:A:ILE:HG13	1:105:A:ILE:HA	9	0.19
(1,1714)	1:103:A:ILE:HG21	1:123:A:ILE:HG21	7	0.19
(1,1714)	1:103:A:ILE:HG21	1:123:A:ILE:HG22	7	0.19
(1,1714)	1:103:A:ILE:HG21	1:123:A:ILE:HG23	7	0.19
(1,1714)	1:103:A:ILE:HG22	1:123:A:ILE:HG21	7	0.19
(1,1714)	1:103:A:ILE:HG22	1:123:A:ILE:HG22	7	0.19
(1,1714)	1:103:A:ILE:HG22	1:123:A:ILE:HG23	7	0.19
(1,1714)	1:103:A:ILE:HG23	1:123:A:ILE:HG21	7	0.19
(1,1714)	1:103:A:ILE:HG23	1:123:A:ILE:HG22	7	0.19
(1,1714)	1:103:A:ILE:HG23	1:123:A:ILE:HG23	7	0.19
(1,1688)	1:103:A:ILE:HB	1:103:A:ILE:H	2	0.19
(1,1688)	1:103:A:ILE:HB	1:103:A:ILE:H	3	0.19
(1,1641)	1:117:A:GLY:HA3	1:100:A:SER:HB2	10	0.19
(1,1610)	1:98:A:THR:H	1:98:A:THR:HA	3	0.19
(1,1610)	1:98:A:THR:H	1:98:A:THR:HA	4	0.19
(1,1610)	1:98:A:THR:H	1:98:A:THR:HA	5	0.19
(1,1610)	1:98:A:THR:H	1:98:A:THR:HA	7	0.19
(1,1610)	1:98:A:THR:H	1:98:A:THR:HA	8	0.19
(1,1610)	1:98:A:THR:H	1:98:A:THR:HA	9	0.19
(1,1610)	1:98:A:THR:H	1:98:A:THR:HA	10	0.19
(1,1537)	1:97:A:LYS:HB3	1:98:A:THR:H	10	0.19
(1,1518)	1:75:A:LYS:H	1:91:A:LEU:HD11	7	0.19
(1,1518)	1:75:A:LYS:H	1:91:A:LEU:HD12	7	0.19
(1,1518)	1:75:A:LYS:H	1:91:A:LEU:HD13	7	0.19
(1,1454)	1:78:A:LEU:HD21	1:86:A:GLY:HA2	6	0.19
(1,1454)	1:78:A:LEU:HD22	1:86:A:GLY:HA2	6	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1454)	1:78:A:LEU:HD23	1:86:A:GLY:HA2	6	0.19
(1,1453)	1:78:A:LEU:HD21	1:86:A:GLY:HA2	6	0.19
(1,1453)	1:78:A:LEU:HD22	1:86:A:GLY:HA2	6	0.19
(1,1453)	1:78:A:LEU:HD23	1:86:A:GLY:HA2	6	0.19
(1,1351)	1:48:A:ALA:HB1	1:42:A:VAL:HA	10	0.19
(1,1351)	1:48:A:ALA:HB2	1:42:A:VAL:HA	10	0.19
(1,1351)	1:48:A:ALA:HB3	1:42:A:VAL:HA	10	0.19
(1,1316)	1:126:A:LEU:H	1:77:A:ILE:HG21	8	0.19
(1,1316)	1:126:A:LEU:H	1:77:A:ILE:HG22	8	0.19
(1,1316)	1:126:A:LEU:H	1:77:A:ILE:HG23	8	0.19
(1,1306)	1:77:A:ILE:HD11	1:90:A:THR:HA	2	0.19
(1,1306)	1:77:A:ILE:HD12	1:90:A:THR:HA	2	0.19
(1,1306)	1:77:A:ILE:HD13	1:90:A:THR:HA	2	0.19
(1,1306)	1:77:A:ILE:HD11	1:90:A:THR:HA	6	0.19
(1,1306)	1:77:A:ILE:HD12	1:90:A:THR:HA	6	0.19
(1,1306)	1:77:A:ILE:HD13	1:90:A:THR:HA	6	0.19
(1,1277)	1:97:A:LYS:HB3	1:98:A:THR:H	7	0.19
(1,1209)	1:73:A:PRO:HD2	1:72:A:ALA:HA	7	0.19
(1,1144)	1:68:A:THR:HA	1:69:A:VAL:HG11	2	0.19
(1,1144)	1:68:A:THR:HA	1:69:A:VAL:HG12	2	0.19
(1,1144)	1:68:A:THR:HA	1:69:A:VAL:HG13	2	0.19
(1,1144)	1:68:A:THR:HA	1:69:A:VAL:HG11	5	0.19
(1,1144)	1:68:A:THR:HA	1:69:A:VAL:HG12	5	0.19
(1,1144)	1:68:A:THR:HA	1:69:A:VAL:HG13	5	0.19
(1,1144)	1:68:A:THR:HA	1:69:A:VAL:HG11	8	0.19
(1,1144)	1:68:A:THR:HA	1:69:A:VAL:HG12	8	0.19
(1,1144)	1:68:A:THR:HA	1:69:A:VAL:HG13	8	0.19
(1,1070)	1:22:A:LYS:H	1:66:A:LEU:HA	8	0.19
(1,1036)	1:64:A:THR:HA	1:64:A:THR:HB	7	0.19
(1,1003)	1:62:A:ASP:HB2	1:64:A:THR:HG21	1	0.19
(1,1003)	1:62:A:ASP:HB2	1:64:A:THR:HG22	1	0.19
(1,1003)	1:62:A:ASP:HB2	1:64:A:THR:HG23	1	0.19
(1,957)	1:60:A:LYS:HB3	1:59:A:LEU:HA	8	0.19
(1,896)	1:51:A:LYS:HE2	1:56:A:GLY:HA2	7	0.19
(1,877)	1:60:A:LYS:HD2	1:60:A:LYS:HA	6	0.19
(1,877)	1:60:A:LYS:HD2	1:60:A:LYS:HA	8	0.19
(1,842)	1:53:A:ILE:HA	1:53:A:ILE:HG13	3	0.19
(1,777)	1:48:A:ALA:HB1	1:41:A:GLU:H	6	0.19
(1,777)	1:48:A:ALA:HB2	1:41:A:GLU:H	6	0.19
(1,777)	1:48:A:ALA:HB3	1:41:A:GLU:H	6	0.19
(1,777)	1:48:A:ALA:HB1	1:41:A:GLU:H	10	0.19
(1,777)	1:48:A:ALA:HB2	1:41:A:GLU:H	10	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,777)	1:48:A:ALA:HB3	1:41:A:GLU:H	10	0.19
(1,619)	1:42:A:VAL:HG11	1:41:A:GLU:HA	6	0.19
(1,619)	1:42:A:VAL:HG12	1:41:A:GLU:HA	6	0.19
(1,619)	1:42:A:VAL:HG13	1:41:A:GLU:HA	6	0.19
(1,558)	1:48:A:ALA:HB1	1:39:A:VAL:HB	5	0.19
(1,558)	1:48:A:ALA:HB2	1:39:A:VAL:HB	5	0.19
(1,558)	1:48:A:ALA:HB3	1:39:A:VAL:HB	5	0.19
(1,531)	1:53:A:ILE:H	1:37:A:ALA:HB1	1	0.19
(1,531)	1:53:A:ILE:H	1:37:A:ALA:HB2	1	0.19
(1,531)	1:53:A:ILE:H	1:37:A:ALA:HB3	1	0.19
(1,353)	1:35:A:LYS:H	1:23:A:ILE:HD11	3	0.19
(1,353)	1:35:A:LYS:H	1:23:A:ILE:HD12	3	0.19
(1,353)	1:35:A:LYS:H	1:23:A:ILE:HD13	3	0.19
(1,309)	1:21:A:VAL:HG21	1:14:A:TRP:HH2	10	0.19
(1,309)	1:21:A:VAL:HG22	1:14:A:TRP:HH2	10	0.19
(1,309)	1:21:A:VAL:HG23	1:14:A:TRP:HH2	10	0.19
(1,270)	1:126:A:LEU:HA	1:19:A:ILE:HG21	3	0.19
(1,270)	1:126:A:LEU:HA	1:19:A:ILE:HG22	3	0.19
(1,270)	1:126:A:LEU:HA	1:19:A:ILE:HG23	3	0.19
(1,270)	1:126:A:LEU:HA	1:19:A:ILE:HG21	9	0.19
(1,270)	1:126:A:LEU:HA	1:19:A:ILE:HG22	9	0.19
(1,270)	1:126:A:LEU:HA	1:19:A:ILE:HG23	9	0.19
(1,265)	1:19:A:ILE:HG21	1:18:A:GLU:H	8	0.19
(1,265)	1:19:A:ILE:HG22	1:18:A:GLU:H	8	0.19
(1,265)	1:19:A:ILE:HG23	1:18:A:GLU:H	8	0.19
(1,265)	1:19:A:ILE:HG21	1:18:A:GLU:H	9	0.19
(1,265)	1:19:A:ILE:HG22	1:18:A:GLU:H	9	0.19
(1,265)	1:19:A:ILE:HG23	1:18:A:GLU:H	9	0.19
(1,178)	1:17:A:PRO:HA	1:39:A:VAL:HG21	6	0.19
(1,178)	1:17:A:PRO:HA	1:39:A:VAL:HG22	6	0.19
(1,178)	1:17:A:PRO:HA	1:39:A:VAL:HG23	6	0.19
(3,1182)	1:98:A:THR:HG23	1:98:A:THR:HA	1	0.18
(3,1146)	1:115:A:VAL:HA	1:103:A:ILE:H	5	0.18
(3,1135)	1:79:A:VAL:H	1:123:A:ILE:HG22	5	0.18
(3,1057)	1:8:A:THR:HB	1:8:A:THR:HG22	5	0.18
(3,1057)	1:8:A:THR:HB	1:8:A:THR:HG21	7	0.18
(3,993)	1:61:A:LEU:HG	1:50:A:VAL:H	1	0.18
(3,973)	1:20:A:ILE:HG23	1:21:A:VAL:H	5	0.18
(3,973)	1:20:A:ILE:HG23	1:21:A:VAL:H	8	0.18
(3,644)	1:3:A:GLU:HA	1:4:A:GLU:H	9	0.18
(3,633)	1:51:A:LYS:HG3	1:56:A:GLY:H	8	0.18
(3,545)	1:49:A:VAL:HG13	1:49:A:VAL:HA	8	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,545)	1:49:A:VAL:HG11	1:49:A:VAL:HA	10	0.18
(3,537)	1:85:A:ARG:HD2	1:82:A:GLY:H	2	0.18
(3,487)	1:40:A:LYS:HE3	1:38:A:ILE:HB	2	0.18
(3,409)	1:96:A:GLU:HB2	1:96:A:GLU:HG3	1	0.18
(3,409)	1:96:A:GLU:HB2	1:96:A:GLU:HG3	6	0.18
(3,409)	1:96:A:GLU:HB2	1:96:A:GLU:HG3	7	0.18
(3,409)	1:96:A:GLU:HB2	1:96:A:GLU:HG3	8	0.18
(3,396)	1:118:A:ILE:HG22	1:121:A:GLU:HA	3	0.18
(3,348)	1:113:A:ARG:H	1:113:A:ARG:HD2	7	0.18
(3,280)	1:112:A:GLY:H	1:111:A:LYS:HG3	5	0.18
(3,186)	1:59:A:LEU:H	1:57:A:ASP:HB2	7	0.18
(3,144)	1:96:A:GLU:HB2	1:97:A:LYS:H	5	0.18
(3,144)	1:96:A:GLU:HB2	1:97:A:LYS:H	9	0.18
(3,122)	1:44:A:ASP:HB3	1:43:A:ILE:HG21	5	0.18
(3,58)	1:23:A:ILE:HG21	1:24:A:ILE:H	5	0.18
(3,52)	1:6:A:LYS:H	1:6:A:LYS:HB2	6	0.18
(2,650)	1:61:A:LEU:HB2	1:65:A:HIS:HD2	1	0.18
(1,3792)	1:14:A:TRP:HD1	1:14:A:TRP:HB2	1	0.18
(1,3792)	1:14:A:TRP:HD1	1:14:A:TRP:HB2	3	0.18
(1,3792)	1:14:A:TRP:HD1	1:14:A:TRP:HB2	5	0.18
(1,3792)	1:14:A:TRP:HD1	1:14:A:TRP:HB2	9	0.18
(1,3789)	1:63:A:GLN:HE21	1:14:A:TRP:HD1	3	0.18
(1,3782)	1:11:A:THR:HB	1:13:A:TYR:HD1	3	0.18
(1,3782)	1:11:A:THR:HB	1:13:A:TYR:HD2	3	0.18
(1,3778)	1:45:A:LYS:HB3	1:46:A:TYR:HD1	5	0.18
(1,3778)	1:45:A:LYS:HB3	1:46:A:TYR:HD2	5	0.18
(1,3726)	1:95:A:ASN:HD21	1:98:A:THR:HB	3	0.18
(1,3641)	1:11:A:THR:H	1:81:A:ASN:HD21	2	0.18
(1,3612)	1:119:A:GLN:HB3	1:119:A:GLN:HE21	8	0.18
(1,3544)	1:66:A:LEU:HD11	1:65:A:HIS:H	6	0.18
(1,3544)	1:66:A:LEU:HD12	1:65:A:HIS:H	6	0.18
(1,3544)	1:66:A:LEU:HD13	1:65:A:HIS:H	6	0.18
(1,3537)	1:46:A:TYR:HE1	1:63:A:GLN:HE21	4	0.18
(1,3537)	1:46:A:TYR:HE2	1:63:A:GLN:HE21	4	0.18
(1,3509)	1:40:A:LYS:HE3	1:41:A:GLU:H	1	0.18
(1,3493)	1:26:A:LYS:HB2	1:33:A:HIS:H	10	0.18
(1,3403)	1:10:A:ARG:HD2	1:10:A:ARG:H	2	0.18
(1,3309)	1:23:A:ILE:H	1:23:A:ILE:HD11	4	0.18
(1,3309)	1:23:A:ILE:H	1:23:A:ILE:HD12	4	0.18
(1,3309)	1:23:A:ILE:H	1:23:A:ILE:HD13	4	0.18
(1,3309)	1:23:A:ILE:H	1:23:A:ILE:HD11	6	0.18
(1,3309)	1:23:A:ILE:H	1:23:A:ILE:HD12	6	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3309)	1:23:A:ILE:H	1:23:A:ILE:HD13	6	0.18
(1,3308)	1:23:A:ILE:H	1:23:A:ILE:HG12	4	0.18
(1,3308)	1:23:A:ILE:H	1:23:A:ILE:HG12	8	0.18
(1,3255)	1:31:A:LYS:HG3	1:32:A:TYR:H	1	0.18
(1,3245)	1:30:A:GLU:HG2	1:33:A:HIS:H	10	0.18
(1,3243)	1:30:A:GLU:HB2	1:33:A:HIS:H	7	0.18
(1,3133)	1:44:A:ASP:H	1:43:A:ILE:HG12	7	0.18
(1,3122)	1:45:A:LYS:H	1:42:A:VAL:HG21	1	0.18
(1,3122)	1:45:A:LYS:H	1:42:A:VAL:HG22	1	0.18
(1,3122)	1:45:A:LYS:H	1:42:A:VAL:HG23	1	0.18
(1,3104)	1:45:A:LYS:HB2	1:47:A:THR:H	9	0.18
(1,3040)	1:54:A:ASP:H	1:53:A:ILE:HG21	6	0.18
(1,3040)	1:54:A:ASP:H	1:53:A:ILE:HG22	6	0.18
(1,3040)	1:54:A:ASP:H	1:53:A:ILE:HG23	6	0.18
(1,3040)	1:54:A:ASP:H	1:53:A:ILE:HG21	7	0.18
(1,3040)	1:54:A:ASP:H	1:53:A:ILE:HG22	7	0.18
(1,3040)	1:54:A:ASP:H	1:53:A:ILE:HG23	7	0.18
(1,3040)	1:54:A:ASP:H	1:53:A:ILE:HG21	9	0.18
(1,3040)	1:54:A:ASP:H	1:53:A:ILE:HG22	9	0.18
(1,3040)	1:54:A:ASP:H	1:53:A:ILE:HG23	9	0.18
(1,2958)	1:64:A:THR:H	1:63:A:GLN:HB2	4	0.18
(1,2843)	1:105:A:ILE:HG21	1:112:A:GLY:H	8	0.18
(1,2843)	1:105:A:ILE:HG22	1:112:A:GLY:H	8	0.18
(1,2843)	1:105:A:ILE:HG23	1:112:A:GLY:H	8	0.18
(1,2786)	1:81:A:ASN:H	1:86:A:GLY:H	9	0.18
(1,2775)	1:82:A:GLY:H	1:83:A:GLY:H	10	0.18
(1,2767)	1:84:A:TYR:HB3	1:84:A:TYR:H	8	0.18
(1,2630)	1:96:A:GLU:H	1:98:A:THR:H	4	0.18
(1,2588)	1:100:A:SER:H	1:100:A:SER:HB3	1	0.18
(1,2588)	1:100:A:SER:H	1:100:A:SER:HB3	8	0.18
(1,2529)	1:105:A:ILE:HG13	1:105:A:ILE:H	9	0.18
(1,2468)	1:113:A:ARG:H	1:105:A:ILE:HG21	2	0.18
(1,2468)	1:113:A:ARG:H	1:105:A:ILE:HG22	2	0.18
(1,2468)	1:113:A:ARG:H	1:105:A:ILE:HG23	2	0.18
(1,2447)	1:115:A:VAL:HB	1:115:A:VAL:H	1	0.18
(1,2397)	1:122:A:ASP:HA	1:119:A:GLN:H	1	0.18
(1,2364)	1:119:A:GLN:HB2	1:121:A:GLU:H	6	0.18
(1,2339)	1:77:A:ILE:HA	1:124:A:SER:H	4	0.18
(1,2252)	1:40:A:LYS:HE3	1:40:A:LYS:HG3	3	0.18
(1,2252)	1:40:A:LYS:HE3	1:40:A:LYS:HG3	7	0.18
(1,2207)	1:103:A:ILE:HG21	1:118:A:ILE:HB	4	0.18
(1,2207)	1:103:A:ILE:HG22	1:118:A:ILE:HB	4	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2207)	1:103:A:ILE:HG23	1:118:A:ILE:HB	4	0.18
(1,2137)	1:119:A:GLN:HG2	1:100:A:SER:HB2	4	0.18
(1,2124)	1:123:A:ILE:HD11	1:101:A:ALA:HA	8	0.18
(1,2124)	1:123:A:ILE:HD12	1:101:A:ALA:HA	8	0.18
(1,2124)	1:123:A:ILE:HD13	1:101:A:ALA:HA	8	0.18
(1,2110)	1:126:A:LEU:HB3	1:77:A:ILE:HG21	3	0.18
(1,2110)	1:126:A:LEU:HB3	1:77:A:ILE:HG22	3	0.18
(1,2110)	1:126:A:LEU:HB3	1:77:A:ILE:HG23	3	0.18
(1,2047)	1:80:A:LEU:HD11	1:124:A:SER:HB2	1	0.18
(1,2047)	1:80:A:LEU:HD12	1:124:A:SER:HB2	1	0.18
(1,2047)	1:80:A:LEU:HD13	1:124:A:SER:HB2	1	0.18
(1,1946)	1:117:A:GLY:HA3	1:116:A:GLU:HB3	8	0.18
(1,1760)	1:105:A:ILE:HG21	1:111:A:LYS:H	8	0.18
(1,1760)	1:105:A:ILE:HG22	1:111:A:LYS:H	8	0.18
(1,1760)	1:105:A:ILE:HG23	1:111:A:LYS:H	8	0.18
(1,1758)	1:110:A:LEU:H	1:105:A:ILE:HG21	7	0.18
(1,1758)	1:110:A:LEU:H	1:105:A:ILE:HG22	7	0.18
(1,1758)	1:110:A:LEU:H	1:105:A:ILE:HG23	7	0.18
(1,1688)	1:103:A:ILE:HB	1:103:A:ILE:H	5	0.18
(1,1688)	1:103:A:ILE:HB	1:103:A:ILE:H	6	0.18
(1,1688)	1:103:A:ILE:HB	1:103:A:ILE:H	7	0.18
(1,1638)	1:118:A:ILE:H	1:100:A:SER:HB2	4	0.18
(1,1611)	1:98:A:THR:HA	1:98:A:THR:HB	3	0.18
(1,1610)	1:98:A:THR:H	1:98:A:THR:HA	1	0.18
(1,1610)	1:98:A:THR:H	1:98:A:THR:HA	2	0.18
(1,1518)	1:75:A:LYS:H	1:91:A:LEU:HD11	4	0.18
(1,1518)	1:75:A:LYS:H	1:91:A:LEU:HD12	4	0.18
(1,1518)	1:75:A:LYS:H	1:91:A:LEU:HD13	4	0.18
(1,1459)	1:87:A:ASN:H	1:87:A:ASN:HB3	2	0.18
(1,1459)	1:87:A:ASN:H	1:87:A:ASN:HB3	5	0.18
(1,1459)	1:87:A:ASN:H	1:87:A:ASN:HB3	10	0.18
(1,1458)	1:88:A:GLU:H	1:87:A:ASN:HB2	4	0.18
(1,1458)	1:88:A:GLU:H	1:87:A:ASN:HB2	9	0.18
(1,1313)	1:77:A:ILE:H	1:77:A:ILE:HG12	8	0.18
(1,1306)	1:77:A:ILE:HD11	1:90:A:THR:HA	4	0.18
(1,1306)	1:77:A:ILE:HD12	1:90:A:THR:HA	4	0.18
(1,1306)	1:77:A:ILE:HD13	1:90:A:THR:HA	4	0.18
(1,1303)	1:78:A:LEU:H	1:77:A:ILE:HD11	6	0.18
(1,1303)	1:78:A:LEU:H	1:77:A:ILE:HD12	6	0.18
(1,1303)	1:78:A:LEU:H	1:77:A:ILE:HD13	6	0.18
(1,1138)	1:79:A:VAL:HG11	1:87:A:ASN:HB3	8	0.18
(1,1138)	1:79:A:VAL:HG12	1:87:A:ASN:HB3	8	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1138)	1:79:A:VAL:HG13	1:87:A:ASN:HB3	8	0.18
(1,1070)	1:22:A:LYS:H	1:66:A:LEU:HA	6	0.18
(1,1036)	1:64:A:THR:HA	1:64:A:THR:HB	2	0.18
(1,1036)	1:64:A:THR:HA	1:64:A:THR:HB	3	0.18
(1,1036)	1:64:A:THR:HA	1:64:A:THR:HB	5	0.18
(1,1036)	1:64:A:THR:HA	1:64:A:THR:HB	8	0.18
(1,971)	1:65:A:HIS:HB3	1:61:A:LEU:HB2	10	0.18
(1,918)	1:60:A:LYS:HB2	1:59:A:LEU:HA	1	0.18
(1,900)	1:57:A:ASP:HA	1:57:A:ASP:HB3	10	0.18
(1,888)	1:54:A:ASP:HB2	1:53:A:ILE:HB	2	0.18
(1,877)	1:60:A:LYS:HD2	1:60:A:LYS:HA	9	0.18
(1,869)	1:94:A:ILE:HD11	1:120:A:TYR:HE1	10	0.18
(1,869)	1:94:A:ILE:HD11	1:120:A:TYR:HE2	10	0.18
(1,869)	1:94:A:ILE:HD12	1:120:A:TYR:HE1	10	0.18
(1,869)	1:94:A:ILE:HD12	1:120:A:TYR:HE2	10	0.18
(1,869)	1:94:A:ILE:HD13	1:120:A:TYR:HE1	10	0.18
(1,869)	1:94:A:ILE:HD13	1:120:A:TYR:HE2	10	0.18
(1,842)	1:53:A:ILE:HA	1:53:A:ILE:HG13	2	0.18
(1,780)	1:15:A:LEU:HA	1:48:A:ALA:HB1	4	0.18
(1,780)	1:15:A:LEU:HA	1:48:A:ALA:HB2	4	0.18
(1,780)	1:15:A:LEU:HA	1:48:A:ALA:HB3	4	0.18
(1,704)	1:44:A:ASP:H	1:43:A:ILE:HG21	3	0.18
(1,704)	1:44:A:ASP:H	1:43:A:ILE:HG22	3	0.18
(1,704)	1:44:A:ASP:H	1:43:A:ILE:HG23	3	0.18
(1,619)	1:42:A:VAL:HG11	1:41:A:GLU:HA	5	0.18
(1,619)	1:42:A:VAL:HG12	1:41:A:GLU:HA	5	0.18
(1,619)	1:42:A:VAL:HG13	1:41:A:GLU:HA	5	0.18
(1,548)	1:39:A:VAL:HA	1:50:A:VAL:HB	5	0.18
(1,461)	1:59:A:LEU:HD11	1:28:A:LEU:HG	10	0.18
(1,461)	1:59:A:LEU:HD12	1:28:A:LEU:HG	10	0.18
(1,461)	1:59:A:LEU:HD13	1:28:A:LEU:HG	10	0.18
(1,399)	1:66:A:LEU:HA	1:24:A:ILE:HG21	10	0.18
(1,399)	1:66:A:LEU:HA	1:24:A:ILE:HG22	10	0.18
(1,399)	1:66:A:LEU:HA	1:24:A:ILE:HG23	10	0.18
(1,266)	1:127:A:ALA:H	1:19:A:ILE:HG21	1	0.18
(1,266)	1:127:A:ALA:H	1:19:A:ILE:HG22	1	0.18
(1,266)	1:127:A:ALA:H	1:19:A:ILE:HG23	1	0.18
(1,266)	1:127:A:ALA:H	1:19:A:ILE:HG21	6	0.18
(1,266)	1:127:A:ALA:H	1:19:A:ILE:HG22	6	0.18
(1,266)	1:127:A:ALA:H	1:19:A:ILE:HG23	6	0.18
(1,265)	1:19:A:ILE:HG21	1:18:A:GLU:H	4	0.18
(1,265)	1:19:A:ILE:HG22	1:18:A:GLU:H	4	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,265)	1:19:A:ILE:HG23	1:18:A:GLU:H	4	0.18
(1,248)	1:19:A:ILE:HD11	1:14:A:TRP:HZ3	4	0.18
(1,248)	1:19:A:ILE:HD12	1:14:A:TRP:HZ3	4	0.18
(1,248)	1:19:A:ILE:HD13	1:14:A:TRP:HZ3	4	0.18
(1,148)	1:15:A:LEU:HD11	1:14:A:TRP:HZ2	1	0.18
(1,148)	1:15:A:LEU:HD12	1:14:A:TRP:HZ2	1	0.18
(1,148)	1:15:A:LEU:HD13	1:14:A:TRP:HZ2	1	0.18
(1,148)	1:15:A:LEU:HD11	1:14:A:TRP:HZ2	4	0.18
(1,148)	1:15:A:LEU:HD12	1:14:A:TRP:HZ2	4	0.18
(1,148)	1:15:A:LEU:HD13	1:14:A:TRP:HZ2	4	0.18
(1,35)	1:113:A:ARG:HG3	1:114:A:ARG:H	4	0.18
(1,35)	1:113:A:ARG:HG3	1:114:A:ARG:H	8	0.18
(3,1174)	1:84:A:TYR:HE2	1:113:A:ARG:HD2	2	0.17
(3,1137)	1:113:A:ARG:HD2	1:114:A:ARG:HA	1	0.17
(3,1128)	1:75:A:LYS:HG2	1:72:A:ALA:H	2	0.17
(3,1097)	1:82:A:GLY:H	1:11:A:THR:HG21	2	0.17
(3,1097)	1:82:A:GLY:H	1:11:A:THR:HG23	4	0.17
(3,1057)	1:8:A:THR:HB	1:8:A:THR:HG22	4	0.17
(3,1034)	1:23:A:ILE:HD11	1:32:A:TYR:HA	10	0.17
(3,988)	1:96:A:GLU:HA	1:99:A:PHE:H	10	0.17
(3,854)	1:104:A:VAL:HA	1:103:A:ILE:HB	3	0.17
(3,817)	1:84:A:TYR:HA	1:85:A:ARG:H	5	0.17
(3,772)	1:106:A:GLU:HG3	1:90:A:THR:H	10	0.17
(3,690)	1:60:A:LYS:HE2	1:60:A:LYS:HG2	1	0.17
(3,690)	1:60:A:LYS:HE2	1:60:A:LYS:HG2	4	0.17
(3,644)	1:3:A:GLU:HA	1:4:A:GLU:H	7	0.17
(3,615)	1:26:A:LYS:HE3	1:30:A:GLU:HA	10	0.17
(3,567)	1:89:A:GLY:HA2	1:105:A:ILE:HD12	7	0.17
(3,545)	1:49:A:VAL:HG12	1:49:A:VAL:HA	1	0.17
(3,545)	1:49:A:VAL:HG13	1:49:A:VAL:HA	7	0.17
(3,523)	1:20:A:ILE:HG22	1:127:A:ALA:HA	7	0.17
(3,523)	1:20:A:ILE:HG22	1:127:A:ALA:HA	10	0.17
(3,481)	1:93:A:SER:H	1:93:A:SER:HB3	3	0.17
(3,481)	1:93:A:SER:H	1:93:A:SER:HB3	8	0.17
(3,481)	1:93:A:SER:H	1:93:A:SER:HB3	9	0.17
(3,440)	1:103:A:ILE:H	1:117:A:GLY:H	10	0.17
(3,409)	1:96:A:GLU:HB2	1:96:A:GLU:HG3	3	0.17
(3,409)	1:96:A:GLU:HB2	1:96:A:GLU:HG3	4	0.17
(3,409)	1:96:A:GLU:HB2	1:96:A:GLU:HG3	9	0.17
(3,353)	1:28:A:LEU:HD22	1:28:A:LEU:HB3	1	0.17
(3,353)	1:28:A:LEU:HD22	1:28:A:LEU:HB3	8	0.17
(3,332)	1:43:A:ILE:HG22	1:43:A:ILE:HG13	7	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,264)	1:77:A:ILE:H	1:91:A:LEU:H	4	0.17
(3,257)	1:53:A:ILE:H	1:53:A:ILE:HD11	2	0.17
(3,211)	1:118:A:ILE:H	1:116:A:GLU:HB3	3	0.17
(3,211)	1:118:A:ILE:H	1:116:A:GLU:HB3	5	0.17
(3,153)	1:91:A:LEU:HD11	1:102:A:THR:H	8	0.17
(2,361)	1:84:A:TYR:HB2	1:103:A:ILE:HG13	9	0.17
(2,357)	1:113:A:ARG:HA	1:115:A:VAL:HG11	9	0.17
(2,357)	1:113:A:ARG:HA	1:115:A:VAL:HG12	9	0.17
(2,357)	1:113:A:ARG:HA	1:115:A:VAL:HG13	9	0.17
(1,3866)	1:120:A:TYR:HE1	1:99:A:PHE:H	2	0.17
(1,3866)	1:120:A:TYR:HE2	1:99:A:PHE:H	2	0.17
(1,3752)	1:34:A:LYS:HG2	1:33:A:HIS:HE1	3	0.17
(1,3696)	1:68:A:THR:H	1:14:A:TRP:HZ2	4	0.17
(1,3676)	1:49:A:VAL:H	1:43:A:ILE:HB	8	0.17
(1,3641)	1:11:A:THR:H	1:81:A:ASN:HD21	1	0.17
(1,3595)	1:95:A:ASN:HD22	1:95:A:ASN:H	2	0.17
(1,3470)	1:16:A:GLN:HB2	1:16:A:GLN:HE21	1	0.17
(1,3468)	1:80:A:LEU:HD21	1:16:A:GLN:HE21	9	0.17
(1,3468)	1:80:A:LEU:HD22	1:16:A:GLN:HE21	9	0.17
(1,3468)	1:80:A:LEU:HD23	1:16:A:GLN:HE21	9	0.17
(1,3434)	1:63:A:GLN:HE22	1:14:A:TRP:HE1	4	0.17
(1,3309)	1:23:A:ILE:H	1:23:A:ILE:HD11	7	0.17
(1,3309)	1:23:A:ILE:H	1:23:A:ILE:HD12	7	0.17
(1,3309)	1:23:A:ILE:H	1:23:A:ILE:HD13	7	0.17
(1,3308)	1:23:A:ILE:H	1:23:A:ILE:HG12	7	0.17
(1,3243)	1:30:A:GLU:HB3	1:33:A:HIS:H	4	0.17
(1,3176)	1:51:A:LYS:HB3	1:40:A:LYS:H	2	0.17
(1,3115)	1:45:A:LYS:HB2	1:46:A:TYR:H	9	0.17
(1,3113)	1:44:A:ASP:HB2	1:46:A:TYR:H	8	0.17
(1,2958)	1:64:A:THR:H	1:63:A:GLN:HB3	8	0.17
(1,2880)	1:75:A:LYS:HB3	1:72:A:ALA:H	8	0.17
(1,2876)	1:73:A:PRO:HD2	1:72:A:ALA:H	3	0.17
(1,2876)	1:73:A:PRO:HD2	1:72:A:ALA:H	5	0.17
(1,2876)	1:73:A:PRO:HD2	1:72:A:ALA:H	7	0.17
(1,2831)	1:78:A:LEU:H	1:123:A:ILE:HB	10	0.17
(1,2775)	1:82:A:GLY:H	1:83:A:GLY:H	3	0.17
(1,2775)	1:82:A:GLY:H	1:83:A:GLY:H	5	0.17
(1,2767)	1:84:A:TYR:HB3	1:84:A:TYR:H	2	0.17
(1,2736)	1:79:A:VAL:HG21	1:87:A:ASN:H	2	0.17
(1,2736)	1:79:A:VAL:HG22	1:87:A:ASN:H	2	0.17
(1,2736)	1:79:A:VAL:HG23	1:87:A:ASN:H	2	0.17
(1,2732)	1:84:A:TYR:HB2	1:87:A:ASN:H	7	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2675)	1:92:A:GLU:H	1:91:A:LEU:HG	2	0.17
(1,2630)	1:96:A:GLU:H	1:98:A:THR:H	10	0.17
(1,2621)	1:97:A:LYS:H	1:97:A:LYS:HD2	6	0.17
(1,2621)	1:97:A:LYS:H	1:97:A:LYS:HD2	7	0.17
(1,2610)	1:95:A:ASN:HB2	1:98:A:THR:H	4	0.17
(1,2589)	1:95:A:ASN:HB3	1:100:A:SER:H	9	0.17
(1,2588)	1:100:A:SER:H	1:100:A:SER:HB3	2	0.17
(1,2571)	1:117:A:GLY:HA2	1:101:A:ALA:H	7	0.17
(1,2529)	1:105:A:ILE:HG13	1:105:A:ILE:H	10	0.17
(1,2481)	1:106:A:GLU:HA	1:111:A:LYS:H	4	0.17
(1,2480)	1:111:A:LYS:HE3	1:111:A:LYS:H	8	0.17
(1,2477)	1:110:A:LEU:HB3	1:111:A:LYS:H	9	0.17
(1,2468)	1:113:A:ARG:H	1:105:A:ILE:HG21	1	0.17
(1,2468)	1:113:A:ARG:H	1:105:A:ILE:HG22	1	0.17
(1,2468)	1:113:A:ARG:H	1:105:A:ILE:HG23	1	0.17
(1,2467)	1:113:A:ARG:H	1:105:A:ILE:HG13	1	0.17
(1,2397)	1:122:A:ASP:HA	1:119:A:GLN:H	9	0.17
(1,2358)	1:122:A:ASP:H	1:121:A:GLU:HB2	6	0.17
(1,2328)	1:126:A:LEU:H	1:125:A:LYS:H	7	0.17
(1,2316)	1:127:A:ALA:H	1:19:A:ILE:HB	6	0.17
(1,2291)	1:68:A:THR:HA	1:19:A:ILE:HD11	2	0.17
(1,2291)	1:68:A:THR:HA	1:19:A:ILE:HD12	2	0.17
(1,2291)	1:68:A:THR:HA	1:19:A:ILE:HD13	2	0.17
(1,2283)	1:68:A:THR:HG21	1:21:A:VAL:HG11	4	0.17
(1,2283)	1:68:A:THR:HG21	1:21:A:VAL:HG12	4	0.17
(1,2283)	1:68:A:THR:HG21	1:21:A:VAL:HG13	4	0.17
(1,2283)	1:68:A:THR:HG22	1:21:A:VAL:HG11	4	0.17
(1,2283)	1:68:A:THR:HG22	1:21:A:VAL:HG12	4	0.17
(1,2283)	1:68:A:THR:HG22	1:21:A:VAL:HG13	4	0.17
(1,2283)	1:68:A:THR:HG23	1:21:A:VAL:HG11	4	0.17
(1,2283)	1:68:A:THR:HG23	1:21:A:VAL:HG12	4	0.17
(1,2283)	1:68:A:THR:HG23	1:21:A:VAL:HG13	4	0.17
(1,2258)	1:23:A:ILE:HD11	1:32:A:TYR:HA	10	0.17
(1,2258)	1:23:A:ILE:HD12	1:32:A:TYR:HA	10	0.17
(1,2258)	1:23:A:ILE:HD13	1:32:A:TYR:HA	10	0.17
(1,2242)	1:94:A:ILE:HB	1:70:A:ILE:HG21	1	0.17
(1,2242)	1:94:A:ILE:HB	1:70:A:ILE:HG22	1	0.17
(1,2242)	1:94:A:ILE:HB	1:70:A:ILE:HG23	1	0.17
(1,2240)	1:79:A:VAL:HG11	1:123:A:ILE:HG21	7	0.17
(1,2240)	1:79:A:VAL:HG11	1:123:A:ILE:HG22	7	0.17
(1,2240)	1:79:A:VAL:HG11	1:123:A:ILE:HG23	7	0.17
(1,2240)	1:79:A:VAL:HG12	1:123:A:ILE:HG21	7	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2240)	1:79:A:VAL:HG12	1:123:A:ILE:HG22	7	0.17
(1,2240)	1:79:A:VAL:HG12	1:123:A:ILE:HG23	7	0.17
(1,2240)	1:79:A:VAL:HG13	1:123:A:ILE:HG21	7	0.17
(1,2240)	1:79:A:VAL:HG13	1:123:A:ILE:HG22	7	0.17
(1,2240)	1:79:A:VAL:HG13	1:123:A:ILE:HG23	7	0.17
(1,2239)	1:10:A:ARG:HG2	1:82:A:GLY:HA3	8	0.17
(1,2221)	1:91:A:LEU:HD21	1:101:A:ALA:HA	3	0.17
(1,2221)	1:91:A:LEU:HD22	1:101:A:ALA:HA	3	0.17
(1,2221)	1:91:A:LEU:HD23	1:101:A:ALA:HA	3	0.17
(1,2211)	1:84:A:TYR:HE1	1:103:A:ILE:HD11	8	0.17
(1,2211)	1:84:A:TYR:HE1	1:103:A:ILE:HD12	8	0.17
(1,2211)	1:84:A:TYR:HE1	1:103:A:ILE:HD13	8	0.17
(1,2211)	1:84:A:TYR:HE2	1:103:A:ILE:HD11	8	0.17
(1,2211)	1:84:A:TYR:HE2	1:103:A:ILE:HD12	8	0.17
(1,2211)	1:84:A:TYR:HE2	1:103:A:ILE:HD13	8	0.17
(1,2205)	1:49:A:VAL:HG21	1:41:A:GLU:H	2	0.17
(1,2205)	1:49:A:VAL:HG22	1:41:A:GLU:H	2	0.17
(1,2205)	1:49:A:VAL:HG23	1:41:A:GLU:H	2	0.17
(1,2051)	1:124:A:SER:HB2	1:68:A:THR:HB	3	0.17
(1,2032)	1:78:A:LEU:H	1:123:A:ILE:HG21	7	0.17
(1,2032)	1:78:A:LEU:H	1:123:A:ILE:HG22	7	0.17
(1,2032)	1:78:A:LEU:H	1:123:A:ILE:HG23	7	0.17
(1,1997)	1:122:A:ASP:H	1:121:A:GLU:HB2	5	0.17
(1,1971)	1:119:A:GLN:HA	1:101:A:ALA:H	4	0.17
(1,1960)	1:118:A:ILE:HG13	1:118:A:ILE:H	3	0.17
(1,1947)	1:117:A:GLY:HA3	1:116:A:GLU:HA	2	0.17
(1,1868)	1:104:A:VAL:HG21	1:112:A:GLY:HA3	7	0.17
(1,1868)	1:104:A:VAL:HG22	1:112:A:GLY:HA3	7	0.17
(1,1868)	1:104:A:VAL:HG23	1:112:A:GLY:HA3	7	0.17
(1,1868)	1:104:A:VAL:HG21	1:112:A:GLY:HA3	10	0.17
(1,1868)	1:104:A:VAL:HG22	1:112:A:GLY:HA3	10	0.17
(1,1868)	1:104:A:VAL:HG23	1:112:A:GLY:HA3	10	0.17
(1,1760)	1:105:A:ILE:HG21	1:111:A:LYS:H	3	0.17
(1,1760)	1:105:A:ILE:HG22	1:111:A:LYS:H	3	0.17
(1,1760)	1:105:A:ILE:HG23	1:111:A:LYS:H	3	0.17
(1,1760)	1:105:A:ILE:HG21	1:111:A:LYS:H	7	0.17
(1,1760)	1:105:A:ILE:HG22	1:111:A:LYS:H	7	0.17
(1,1760)	1:105:A:ILE:HG23	1:111:A:LYS:H	7	0.17
(1,1758)	1:110:A:LEU:H	1:105:A:ILE:HG21	6	0.17
(1,1758)	1:110:A:LEU:H	1:105:A:ILE:HG22	6	0.17
(1,1758)	1:110:A:LEU:H	1:105:A:ILE:HG23	6	0.17
(1,1753)	1:115:A:VAL:HG11	1:105:A:ILE:HG13	5	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1753)	1:115:A:VAL:HG12	1:105:A:ILE:HG13	5	0.17
(1,1753)	1:115:A:VAL:HG13	1:105:A:ILE:HG13	5	0.17
(1,1635)	1:100:A:SER:HA	1:100:A:SER:HB2	4	0.17
(1,1635)	1:100:A:SER:HA	1:100:A:SER:HB2	6	0.17
(1,1610)	1:98:A:THR:H	1:98:A:THR:HA	6	0.17
(1,1537)	1:97:A:LYS:HB3	1:98:A:THR:H	7	0.17
(1,1459)	1:87:A:ASN:H	1:87:A:ASN:HB3	1	0.17
(1,1459)	1:87:A:ASN:H	1:87:A:ASN:HB3	9	0.17
(1,1216)	1:75:A:LYS:HG2	1:72:A:ALA:HB1	7	0.17
(1,1216)	1:75:A:LYS:HG2	1:72:A:ALA:HB2	7	0.17
(1,1216)	1:75:A:LYS:HG2	1:72:A:ALA:HB3	7	0.17
(1,1209)	1:73:A:PRO:HD2	1:72:A:ALA:HA	1	0.17
(1,1206)	1:71:A:PRO:HD2	1:70:A:ILE:HG21	10	0.17
(1,1206)	1:71:A:PRO:HD2	1:70:A:ILE:HG22	10	0.17
(1,1206)	1:71:A:PRO:HD2	1:70:A:ILE:HG23	10	0.17
(1,1138)	1:79:A:VAL:HG11	1:87:A:ASN:HB3	6	0.17
(1,1138)	1:79:A:VAL:HG12	1:87:A:ASN:HB3	6	0.17
(1,1138)	1:79:A:VAL:HG13	1:87:A:ASN:HB3	6	0.17
(1,1104)	1:67:A:GLU:HA	1:67:A:GLU:HG2	7	0.17
(1,1104)	1:67:A:GLU:HA	1:67:A:GLU:HG2	8	0.17
(1,964)	1:60:A:LYS:HE2	1:60:A:LYS:HA	5	0.17
(1,922)	1:60:A:LYS:HE2	1:60:A:LYS:HA	3	0.17
(1,881)	1:54:A:ASP:HA	1:53:A:ILE:HG21	3	0.17
(1,881)	1:54:A:ASP:HA	1:53:A:ILE:HG22	3	0.17
(1,881)	1:54:A:ASP:HA	1:53:A:ILE:HG23	3	0.17
(1,849)	1:37:A:ALA:HA	1:53:A:ILE:HB	5	0.17
(1,818)	1:51:A:LYS:HG2	1:56:A:GLY:HA3	8	0.17
(1,797)	1:50:A:VAL:HB	1:50:A:VAL:H	1	0.17
(1,777)	1:48:A:ALA:HB1	1:41:A:GLU:H	4	0.17
(1,777)	1:48:A:ALA:HB2	1:41:A:GLU:H	4	0.17
(1,777)	1:48:A:ALA:HB3	1:41:A:GLU:H	4	0.17
(1,683)	1:43:A:ILE:HD11	1:43:A:ILE:HA	4	0.17
(1,683)	1:43:A:ILE:HD12	1:43:A:ILE:HA	4	0.17
(1,683)	1:43:A:ILE:HD13	1:43:A:ILE:HA	4	0.17
(1,662)	1:45:A:LYS:HA	1:42:A:VAL:HG21	4	0.17
(1,662)	1:45:A:LYS:HA	1:42:A:VAL:HG22	4	0.17
(1,662)	1:45:A:LYS:HA	1:42:A:VAL:HG23	4	0.17
(1,660)	1:15:A:LEU:H	1:42:A:VAL:HG21	2	0.17
(1,660)	1:15:A:LEU:H	1:42:A:VAL:HG22	2	0.17
(1,660)	1:15:A:LEU:H	1:42:A:VAL:HG23	2	0.17
(1,468)	1:30:A:GLU:HB3	1:30:A:GLU:HA	3	0.17
(1,453)	1:32:A:TYR:HD1	1:28:A:LEU:HD11	4	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,453)	1:32:A:TYR:HD1	1:28:A:LEU:HD12	4	0.17
(1,453)	1:32:A:TYR:HD1	1:28:A:LEU:HD13	4	0.17
(1,453)	1:32:A:TYR:HD2	1:28:A:LEU:HD11	4	0.17
(1,453)	1:32:A:TYR:HD2	1:28:A:LEU:HD12	4	0.17
(1,453)	1:32:A:TYR:HD2	1:28:A:LEU:HD13	4	0.17
(1,440)	1:111:A:LYS:HD2	1:107:A:THR:HA	5	0.17
(1,353)	1:35:A:LYS:H	1:23:A:ILE:HD11	7	0.17
(1,353)	1:35:A:LYS:H	1:23:A:ILE:HD12	7	0.17
(1,353)	1:35:A:LYS:H	1:23:A:ILE:HD13	7	0.17
(1,154)	1:16:A:GLN:HA	1:16:A:GLN:HB3	5	0.17
(1,154)	1:16:A:GLN:HA	1:16:A:GLN:HB3	8	0.17
(1,154)	1:16:A:GLN:HA	1:16:A:GLN:HB3	10	0.17
(1,150)	1:48:A:ALA:H	1:15:A:LEU:HD21	7	0.17
(1,150)	1:48:A:ALA:H	1:15:A:LEU:HD22	7	0.17
(1,150)	1:48:A:ALA:H	1:15:A:LEU:HD23	7	0.17
(1,70)	1:11:A:THR:HA	1:11:A:THR:HB	4	0.17
(1,1)	1:107:A:THR:HB	1:108:A:GLY:H	1	0.17
(3,1182)	1:98:A:THR:HG22	1:98:A:THR:HA	10	0.16
(3,1057)	1:8:A:THR:HA	1:8:A:THR:HG21	3	0.16
(3,1042)	1:19:A:ILE:HA	1:127:A:ALA:HA	8	0.16
(3,1034)	1:23:A:ILE:HD11	1:32:A:TYR:HA	6	0.16
(3,928)	1:120:A:TYR:HA	1:123:A:ILE:HG21	9	0.16
(3,895)	1:126:A:LEU:HD23	1:89:A:GLY:H	6	0.16
(3,890)	1:78:A:LEU:HA	1:124:A:SER:H	2	0.16
(3,854)	1:104:A:VAL:HA	1:103:A:ILE:HB	5	0.16
(3,838)	1:52:A:MET:H	1:59:A:LEU:H	2	0.16
(3,823)	1:123:A:ILE:HG13	1:123:A:ILE:HG21	2	0.16
(3,823)	1:123:A:ILE:HG13	1:123:A:ILE:HG21	10	0.16
(3,816)	1:77:A:ILE:H	1:91:A:LEU:H	1	0.16
(3,799)	1:48:A:ALA:H	1:60:A:LYS:HD3	3	0.16
(3,735)	1:115:A:VAL:HG12	1:103:A:ILE:HD12	7	0.16
(3,732)	1:48:A:ALA:HB3	1:43:A:ILE:H	8	0.16
(3,690)	1:60:A:LYS:HE2	1:60:A:LYS:HG2	2	0.16
(3,690)	1:58:A:LYS:HG2	1:58:A:LYS:HE2	7	0.16
(3,690)	1:60:A:LYS:HE2	1:60:A:LYS:HG2	9	0.16
(3,690)	1:58:A:LYS:HG2	1:58:A:LYS:HE2	10	0.16
(3,655)	1:26:A:LYS:HG2	1:26:A:LYS:HD3	3	0.16
(3,655)	1:26:A:LYS:HG2	1:26:A:LYS:HD3	7	0.16
(3,646)	1:85:A:ARG:H	1:83:A:GLY:H	3	0.16
(3,567)	1:89:A:GLY:HA2	1:105:A:ILE:HD11	2	0.16
(3,487)	1:6:A:LYS:HG2	1:6:A:LYS:HE2	1	0.16
(3,440)	1:103:A:ILE:H	1:117:A:GLY:H	3	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,423)	1:61:A:LEU:HD12	1:25:A:THR:H	6	0.16
(3,409)	1:96:A:GLU:HB2	1:96:A:GLU:HG3	10	0.16
(3,353)	1:61:A:LEU:HD21	1:61:A:LEU:HB3	2	0.16
(3,353)	1:61:A:LEU:HD23	1:61:A:LEU:HB3	4	0.16
(3,353)	1:61:A:LEU:HD21	1:61:A:LEU:HB3	5	0.16
(3,321)	1:118:A:ILE:HG12	1:118:A:ILE:HD13	2	0.16
(3,321)	1:118:A:ILE:HG12	1:118:A:ILE:HD11	7	0.16
(3,321)	1:118:A:ILE:HG12	1:118:A:ILE:HD12	10	0.16
(3,304)	1:94:A:ILE:HB	1:70:A:ILE:HG22	5	0.16
(3,303)	1:102:A:THR:HA	1:103:A:ILE:HD13	5	0.16
(3,268)	1:125:A:LYS:HE2	1:125:A:LYS:HE3	1	0.16
(3,268)	1:125:A:LYS:HE2	1:125:A:LYS:HE3	2	0.16
(3,268)	1:125:A:LYS:HE2	1:125:A:LYS:HE3	3	0.16
(3,268)	1:75:A:LYS:HE3	1:75:A:LYS:HE2	4	0.16
(3,268)	1:125:A:LYS:HE2	1:125:A:LYS:HE3	5	0.16
(3,268)	1:75:A:LYS:HE3	1:75:A:LYS:HE2	6	0.16
(3,268)	1:51:A:LYS:HE3	1:51:A:LYS:HE2	7	0.16
(3,268)	1:75:A:LYS:HE3	1:75:A:LYS:HE2	8	0.16
(3,268)	1:75:A:LYS:HE3	1:75:A:LYS:HE2	9	0.16
(3,268)	1:75:A:LYS:HE3	1:75:A:LYS:HE2	10	0.16
(3,165)	1:79:A:VAL:HG12	1:88:A:GLU:HA	1	0.16
(3,165)	1:79:A:VAL:HG11	1:88:A:GLU:HA	10	0.16
(3,108)	1:45:A:LYS:HG3	1:45:A:LYS:HE3	2	0.16
(3,21)	1:126:A:LEU:HD21	1:88:A:GLU:HG2	2	0.16
(2,574)	1:39:A:VAL:H	1:20:A:ILE:HG12	7	0.16
(2,230)	1:110:A:LEU:HD21	1:84:A:TYR:H	10	0.16
(2,230)	1:110:A:LEU:HD22	1:84:A:TYR:H	10	0.16
(2,230)	1:110:A:LEU:HD23	1:84:A:TYR:H	10	0.16
(1,3855)	1:120:A:TYR:H	1:120:A:TYR:HE1	9	0.16
(1,3855)	1:120:A:TYR:H	1:120:A:TYR:HE2	9	0.16
(1,3849)	1:84:A:TYR:HE1	1:105:A:ILE:HD11	1	0.16
(1,3849)	1:84:A:TYR:HE1	1:105:A:ILE:HD12	1	0.16
(1,3849)	1:84:A:TYR:HE1	1:105:A:ILE:HD13	1	0.16
(1,3849)	1:84:A:TYR:HE2	1:105:A:ILE:HD11	1	0.16
(1,3849)	1:84:A:TYR:HE2	1:105:A:ILE:HD12	1	0.16
(1,3849)	1:84:A:TYR:HE2	1:105:A:ILE:HD13	1	0.16
(1,3728)	1:97:A:LYS:H	1:95:A:ASN:HD21	5	0.16
(1,3697)	1:68:A:THR:H	1:14:A:TRP:HE1	1	0.16
(1,3656)	1:32:A:TYR:HB2	1:27:A:LYS:H	5	0.16
(1,3591)	1:98:A:THR:HG21	1:95:A:ASN:HD21	7	0.16
(1,3591)	1:98:A:THR:HG22	1:95:A:ASN:HD21	7	0.16
(1,3591)	1:98:A:THR:HG23	1:95:A:ASN:HD21	7	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3591)	1:98:A:THR:HG21	1:95:A:ASN:HD21	8	0.16
(1,3591)	1:98:A:THR:HG22	1:95:A:ASN:HD21	8	0.16
(1,3591)	1:98:A:THR:HG23	1:95:A:ASN:HD21	8	0.16
(1,3544)	1:66:A:LEU:HD11	1:65:A:HIS:H	4	0.16
(1,3544)	1:66:A:LEU:HD12	1:65:A:HIS:H	4	0.16
(1,3544)	1:66:A:LEU:HD13	1:65:A:HIS:H	4	0.16
(1,3542)	1:64:A:THR:H	1:14:A:TRP:HE1	6	0.16
(1,3537)	1:46:A:TYR:HE1	1:63:A:GLN:HE21	3	0.16
(1,3537)	1:46:A:TYR:HE2	1:63:A:GLN:HE21	3	0.16
(1,3537)	1:46:A:TYR:HE1	1:63:A:GLN:HE21	9	0.16
(1,3537)	1:46:A:TYR:HE2	1:63:A:GLN:HE21	9	0.16
(1,3459)	1:80:A:LEU:HD21	1:16:A:GLN:HE22	10	0.16
(1,3459)	1:80:A:LEU:HD22	1:16:A:GLN:HE22	10	0.16
(1,3459)	1:80:A:LEU:HD23	1:16:A:GLN:HE22	10	0.16
(1,3397)	1:10:A:ARG:HB3	1:11:A:THR:H	9	0.16
(1,3309)	1:23:A:ILE:H	1:23:A:ILE:HD11	2	0.16
(1,3309)	1:23:A:ILE:H	1:23:A:ILE:HD12	2	0.16
(1,3309)	1:23:A:ILE:H	1:23:A:ILE:HD13	2	0.16
(1,3308)	1:23:A:ILE:H	1:23:A:ILE:HG12	3	0.16
(1,3113)	1:44:A:ASP:HB2	1:46:A:TYR:H	9	0.16
(1,3040)	1:54:A:ASP:H	1:53:A:ILE:HG21	5	0.16
(1,3040)	1:54:A:ASP:H	1:53:A:ILE:HG22	5	0.16
(1,3040)	1:54:A:ASP:H	1:53:A:ILE:HG23	5	0.16
(1,3021)	1:51:A:LYS:HD2	1:57:A:ASP:H	1	0.16
(1,2976)	1:63:A:GLN:H	1:14:A:TRP:HE1	8	0.16
(1,2967)	1:46:A:TYR:HB2	1:63:A:GLN:H	5	0.16
(1,2876)	1:73:A:PRO:HD2	1:72:A:ALA:H	2	0.16
(1,2876)	1:73:A:PRO:HD2	1:72:A:ALA:H	4	0.16
(1,2876)	1:73:A:PRO:HD2	1:72:A:ALA:H	9	0.16
(1,2788)	1:81:A:ASN:H	1:84:A:TYR:H	7	0.16
(1,2658)	1:91:A:LEU:HD11	1:94:A:ILE:H	4	0.16
(1,2658)	1:91:A:LEU:HD12	1:94:A:ILE:H	4	0.16
(1,2658)	1:91:A:LEU:HD13	1:94:A:ILE:H	4	0.16
(1,2641)	1:95:A:ASN:HD21	1:95:A:ASN:H	1	0.16
(1,2630)	1:96:A:GLU:H	1:98:A:THR:H	5	0.16
(1,2630)	1:96:A:GLU:H	1:98:A:THR:H	8	0.16
(1,2625)	1:97:A:LYS:H	1:99:A:PHE:H	4	0.16
(1,2529)	1:105:A:ILE:HG13	1:105:A:ILE:H	7	0.16
(1,2509)	1:107:A:THR:H	1:88:A:GLU:H	9	0.16
(1,2468)	1:113:A:ARG:H	1:105:A:ILE:HG21	9	0.16
(1,2468)	1:113:A:ARG:H	1:105:A:ILE:HG22	9	0.16
(1,2468)	1:113:A:ARG:H	1:105:A:ILE:HG23	9	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2454)	1:113:A:ARG:HD2	1:114:A:ARG:H	7	0.16
(1,2429)	1:93:A:SER:H	1:91:A:LEU:HG	5	0.16
(1,2429)	1:93:A:SER:H	1:91:A:LEU:HG	7	0.16
(1,2429)	1:93:A:SER:H	1:91:A:LEU:HG	8	0.16
(1,2411)	1:118:A:ILE:H	1:101:A:ALA:HA	7	0.16
(1,2401)	1:122:A:ASP:HB3	1:119:A:GLN:H	6	0.16
(1,2335)	1:68:A:THR:HB	1:125:A:LYS:H	4	0.16
(1,2316)	1:127:A:ALA:H	1:19:A:ILE:HB	3	0.16
(1,2304)	1:104:A:VAL:HG21	1:114:A:ARG:HB3	7	0.16
(1,2304)	1:104:A:VAL:HG22	1:114:A:ARG:HB3	7	0.16
(1,2304)	1:104:A:VAL:HG23	1:114:A:ARG:HB3	7	0.16
(1,2277)	1:21:A:VAL:HG21	1:66:A:LEU:HA	8	0.16
(1,2277)	1:21:A:VAL:HG22	1:66:A:LEU:HA	8	0.16
(1,2277)	1:21:A:VAL:HG23	1:66:A:LEU:HA	8	0.16
(1,2207)	1:103:A:ILE:HG21	1:118:A:ILE:HB	10	0.16
(1,2207)	1:103:A:ILE:HG22	1:118:A:ILE:HB	10	0.16
(1,2207)	1:103:A:ILE:HG23	1:118:A:ILE:HB	10	0.16
(1,2196)	1:106:A:GLU:HB2	1:105:A:ILE:HA	3	0.16
(1,2157)	1:117:A:GLY:HA3	1:100:A:SER:HB3	4	0.16
(1,2155)	1:118:A:ILE:HA	1:101:A:ALA:H	1	0.16
(1,1997)	1:122:A:ASP:H	1:121:A:GLU:HB2	7	0.16
(1,1997)	1:122:A:ASP:H	1:121:A:GLU:HB2	10	0.16
(1,1971)	1:119:A:GLN:HA	1:101:A:ALA:H	8	0.16
(1,1966)	1:118:A:ILE:HG21	1:122:A:ASP:H	3	0.16
(1,1966)	1:118:A:ILE:HG22	1:122:A:ASP:H	3	0.16
(1,1966)	1:118:A:ILE:HG23	1:122:A:ASP:H	3	0.16
(1,1959)	1:118:A:ILE:HD11	1:122:A:ASP:HB2	4	0.16
(1,1959)	1:118:A:ILE:HD12	1:122:A:ASP:HB2	4	0.16
(1,1959)	1:118:A:ILE:HD13	1:122:A:ASP:HB2	4	0.16
(1,1950)	1:118:A:ILE:HA	1:101:A:ALA:H	3	0.16
(1,1760)	1:105:A:ILE:HG21	1:111:A:LYS:H	2	0.16
(1,1760)	1:105:A:ILE:HG22	1:111:A:LYS:H	2	0.16
(1,1760)	1:105:A:ILE:HG23	1:111:A:LYS:H	2	0.16
(1,1742)	1:84:A:TYR:HB2	1:105:A:ILE:HD11	4	0.16
(1,1742)	1:84:A:TYR:HB2	1:105:A:ILE:HD12	4	0.16
(1,1742)	1:84:A:TYR:HB2	1:105:A:ILE:HD13	4	0.16
(1,1714)	1:103:A:ILE:HG21	1:123:A:ILE:HG21	8	0.16
(1,1714)	1:103:A:ILE:HG21	1:123:A:ILE:HG22	8	0.16
(1,1714)	1:103:A:ILE:HG21	1:123:A:ILE:HG23	8	0.16
(1,1714)	1:103:A:ILE:HG22	1:123:A:ILE:HG21	8	0.16
(1,1714)	1:103:A:ILE:HG22	1:123:A:ILE:HG22	8	0.16
(1,1714)	1:103:A:ILE:HG22	1:123:A:ILE:HG23	8	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1714)	1:103:A:ILE:HG23	1:123:A:ILE:HG21	8	0.16
(1,1714)	1:103:A:ILE:HG23	1:123:A:ILE:HG22	8	0.16
(1,1714)	1:103:A:ILE:HG23	1:123:A:ILE:HG23	8	0.16
(1,1688)	1:103:A:ILE:HB	1:103:A:ILE:H	9	0.16
(1,1678)	1:102:A:THR:HG21	1:103:A:ILE:HA	9	0.16
(1,1678)	1:102:A:THR:HG22	1:103:A:ILE:HA	9	0.16
(1,1678)	1:102:A:THR:HG23	1:103:A:ILE:HA	9	0.16
(1,1667)	1:102:A:THR:HA	1:116:A:GLU:HG2	9	0.16
(1,1655)	1:94:A:ILE:HG21	1:101:A:ALA:HA	2	0.16
(1,1655)	1:94:A:ILE:HG22	1:101:A:ALA:HA	2	0.16
(1,1655)	1:94:A:ILE:HG23	1:101:A:ALA:HA	2	0.16
(1,1655)	1:94:A:ILE:HG21	1:101:A:ALA:HA	7	0.16
(1,1655)	1:94:A:ILE:HG22	1:101:A:ALA:HA	7	0.16
(1,1655)	1:94:A:ILE:HG23	1:101:A:ALA:HA	7	0.16
(1,1635)	1:100:A:SER:HA	1:100:A:SER:HB2	5	0.16
(1,1555)	1:93:A:SER:HA	1:73:A:PRO:HG2	1	0.16
(1,1441)	1:85:A:ARG:HB3	1:86:A:GLY:H	9	0.16
(1,1352)	1:90:A:THR:HG21	1:74:A:GLY:HA2	10	0.16
(1,1352)	1:90:A:THR:HG22	1:74:A:GLY:HA2	10	0.16
(1,1352)	1:90:A:THR:HG23	1:74:A:GLY:HA2	10	0.16
(1,1321)	1:71:A:PRO:HG3	1:77:A:ILE:HG21	2	0.16
(1,1321)	1:71:A:PRO:HG3	1:77:A:ILE:HG22	2	0.16
(1,1321)	1:71:A:PRO:HG3	1:77:A:ILE:HG23	2	0.16
(1,1321)	1:71:A:PRO:HG3	1:77:A:ILE:HG21	5	0.16
(1,1321)	1:71:A:PRO:HG3	1:77:A:ILE:HG22	5	0.16
(1,1321)	1:71:A:PRO:HG3	1:77:A:ILE:HG23	5	0.16
(1,1313)	1:77:A:ILE:H	1:77:A:ILE:HG12	1	0.16
(1,1277)	1:97:A:LYS:HB3	1:98:A:THR:H	2	0.16
(1,1200)	1:71:A:PRO:HD3	1:70:A:ILE:HG21	5	0.16
(1,1200)	1:71:A:PRO:HD3	1:70:A:ILE:HG22	5	0.16
(1,1200)	1:71:A:PRO:HD3	1:70:A:ILE:HG23	5	0.16
(1,1138)	1:79:A:VAL:HG11	1:87:A:ASN:HB3	1	0.16
(1,1138)	1:79:A:VAL:HG12	1:87:A:ASN:HB3	1	0.16
(1,1138)	1:79:A:VAL:HG13	1:87:A:ASN:HB3	1	0.16
(1,1070)	1:22:A:LYS:H	1:66:A:LEU:HA	1	0.16
(1,1036)	1:64:A:THR:HA	1:64:A:THR:HB	9	0.16
(1,1021)	1:15:A:LEU:HD11	1:63:A:GLN:HB2	3	0.16
(1,1021)	1:15:A:LEU:HD12	1:63:A:GLN:HB2	3	0.16
(1,1021)	1:15:A:LEU:HD13	1:63:A:GLN:HB2	3	0.16
(1,971)	1:65:A:HIS:HB3	1:61:A:LEU:HB2	6	0.16
(1,964)	1:60:A:LYS:HE2	1:60:A:LYS:HA	2	0.16
(1,893)	1:51:A:LYS:HG2	1:56:A:GLY:HA3	8	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,877)	1:60:A:LYS:HD2	1:60:A:LYS:HA	2	0.16
(1,877)	1:60:A:LYS:HD2	1:60:A:LYS:HA	5	0.16
(1,842)	1:53:A:ILE:HA	1:53:A:ILE:HG13	8	0.16
(1,842)	1:53:A:ILE:HA	1:53:A:ILE:HG13	10	0.16
(1,797)	1:50:A:VAL:HB	1:50:A:VAL:H	3	0.16
(1,797)	1:50:A:VAL:HB	1:50:A:VAL:H	8	0.16
(1,787)	1:49:A:VAL:HG11	1:58:A:LYS:HG2	1	0.16
(1,787)	1:49:A:VAL:HG12	1:58:A:LYS:HG2	1	0.16
(1,787)	1:49:A:VAL:HG13	1:58:A:LYS:HG2	1	0.16
(1,787)	1:49:A:VAL:HG11	1:58:A:LYS:HG2	7	0.16
(1,787)	1:49:A:VAL:HG12	1:58:A:LYS:HG2	7	0.16
(1,787)	1:49:A:VAL:HG13	1:58:A:LYS:HG2	7	0.16
(1,780)	1:15:A:LEU:HA	1:48:A:ALA:HB1	8	0.16
(1,780)	1:15:A:LEU:HA	1:48:A:ALA:HB2	8	0.16
(1,780)	1:15:A:LEU:HA	1:48:A:ALA:HB3	8	0.16
(1,717)	1:45:A:LYS:HA	1:45:A:LYS:HG3	4	0.16
(1,695)	1:14:A:TRP:HB3	1:80:A:LEU:HD11	6	0.16
(1,695)	1:14:A:TRP:HB3	1:80:A:LEU:HD12	6	0.16
(1,695)	1:14:A:TRP:HB3	1:80:A:LEU:HD13	6	0.16
(1,629)	1:104:A:VAL:HB	1:104:A:VAL:H	1	0.16
(1,479)	1:31:A:LYS:HA	1:32:A:TYR:H	5	0.16
(1,453)	1:32:A:TYR:HD1	1:28:A:LEU:HD11	5	0.16
(1,453)	1:32:A:TYR:HD1	1:28:A:LEU:HD12	5	0.16
(1,453)	1:32:A:TYR:HD1	1:28:A:LEU:HD13	5	0.16
(1,453)	1:32:A:TYR:HD2	1:28:A:LEU:HD11	5	0.16
(1,453)	1:32:A:TYR:HD2	1:28:A:LEU:HD12	5	0.16
(1,453)	1:32:A:TYR:HD2	1:28:A:LEU:HD13	5	0.16
(1,430)	1:91:A:LEU:HD11	1:91:A:LEU:HD21	10	0.16
(1,430)	1:91:A:LEU:HD11	1:91:A:LEU:HD22	10	0.16
(1,430)	1:91:A:LEU:HD11	1:91:A:LEU:HD23	10	0.16
(1,430)	1:91:A:LEU:HD12	1:91:A:LEU:HD21	10	0.16
(1,430)	1:91:A:LEU:HD12	1:91:A:LEU:HD22	10	0.16
(1,430)	1:91:A:LEU:HD12	1:91:A:LEU:HD23	10	0.16
(1,430)	1:91:A:LEU:HD13	1:91:A:LEU:HD21	10	0.16
(1,430)	1:91:A:LEU:HD13	1:91:A:LEU:HD22	10	0.16
(1,430)	1:91:A:LEU:HD13	1:91:A:LEU:HD23	10	0.16
(1,384)	1:24:A:ILE:HD11	1:65:A:HIS:H	6	0.16
(1,384)	1:24:A:ILE:HD12	1:65:A:HIS:H	6	0.16
(1,384)	1:24:A:ILE:HD13	1:65:A:HIS:H	6	0.16
(1,375)	1:23:A:ILE:HG21	1:66:A:LEU:HA	9	0.16
(1,375)	1:23:A:ILE:HG22	1:66:A:LEU:HA	9	0.16
(1,375)	1:23:A:ILE:HG23	1:66:A:LEU:HA	9	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,205)	1:17:A:PRO:HA	1:17:A:PRO:HG2	1	0.16
(1,205)	1:17:A:PRO:HA	1:17:A:PRO:HG2	2	0.16
(1,205)	1:17:A:PRO:HA	1:17:A:PRO:HG2	9	0.16
(1,154)	1:16:A:GLN:HA	1:16:A:GLN:HB3	7	0.16
(1,102)	1:14:A:TRP:HB3	1:14:A:TRP:HE3	1	0.16
(1,70)	1:11:A:THR:HA	1:11:A:THR:HB	3	0.16
(1,35)	1:113:A:ARG:HG3	1:114:A:ARG:H	6	0.16
(3,1221)	1:61:A:LEU:HD11	1:59:A:LEU:HD13	10	0.15
(3,1173)	1:84:A:TYR:HE2	1:110:A:LEU:HB2	10	0.15
(3,1164)	1:26:A:LYS:HG3	1:29:A:GLY:H	3	0.15
(3,1101)	1:123:A:ILE:H	1:121:A:GLU:HG3	3	0.15
(3,1074)	1:78:A:LEU:H	1:77:A:ILE:HD12	4	0.15
(3,1068)	1:126:A:LEU:H	1:76:A:ARG:HB2	2	0.15
(3,1057)	1:8:A:THR:HB	1:8:A:THR:HG21	6	0.15
(3,993)	1:58:A:LYS:HG3	1:50:A:VAL:H	6	0.15
(3,973)	1:20:A:ILE:HG21	1:21:A:VAL:H	1	0.15
(3,928)	1:120:A:TYR:HA	1:123:A:ILE:HG22	2	0.15
(3,867)	1:17:A:PRO:HB3	1:18:A:GLU:H	9	0.15
(3,838)	1:52:A:MET:H	1:59:A:LEU:H	4	0.15
(3,823)	1:123:A:ILE:HG13	1:123:A:ILE:HG23	5	0.15
(3,823)	1:123:A:ILE:HG13	1:123:A:ILE:HG22	6	0.15
(3,823)	1:123:A:ILE:HG13	1:123:A:ILE:HG23	7	0.15
(3,655)	1:28:A:LEU:HD23	1:28:A:LEU:HG	5	0.15
(3,655)	1:28:A:LEU:HD21	1:28:A:LEU:HG	8	0.15
(3,655)	1:26:A:LYS:HG2	1:26:A:LYS:HD3	9	0.15
(3,646)	1:85:A:ARG:H	1:83:A:GLY:H	8	0.15
(3,633)	1:51:A:LYS:HG3	1:56:A:GLY:H	6	0.15
(3,552)	1:32:A:TYR:HE1	1:57:A:ASP:HB3	1	0.15
(3,545)	1:49:A:VAL:HG12	1:49:A:VAL:HA	6	0.15
(3,485)	1:127:A:ALA:H	1:126:A:LEU:HB3	9	0.15
(3,423)	1:61:A:LEU:HD12	1:25:A:THR:H	10	0.15
(3,409)	1:96:A:GLU:HB2	1:96:A:GLU:HG3	2	0.15
(3,396)	1:118:A:ILE:HG23	1:121:A:GLU:HA	5	0.15
(3,381)	1:45:A:LYS:H	1:44:A:ASP:HB3	1	0.15
(3,379)	1:45:A:LYS:HA	1:13:A:TYR:HD2	3	0.15
(3,366)	1:42:A:VAL:HG22	1:16:A:GLN:HG2	10	0.15
(3,332)	1:43:A:ILE:HG21	1:43:A:ILE:HG13	8	0.15
(3,321)	1:118:A:ILE:HG12	1:118:A:ILE:HD12	1	0.15
(3,321)	1:28:A:LEU:HD11	1:28:A:LEU:HG	3	0.15
(3,321)	1:118:A:ILE:HG12	1:118:A:ILE:HD13	4	0.15
(3,321)	1:118:A:ILE:HG12	1:118:A:ILE:HD12	5	0.15
(3,321)	1:28:A:LEU:HD12	1:28:A:LEU:HG	6	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,321)	1:118:A:ILE:HG12	1:118:A:ILE:HD13	8	0.15
(3,321)	1:118:A:ILE:HG12	1:118:A:ILE:HD11	9	0.15
(3,310)	1:111:A:LYS:HD3	1:111:A:LYS:HG3	2	0.15
(3,303)	1:102:A:THR:HA	1:103:A:ILE:HD13	2	0.15
(3,180)	1:65:A:HIS:H	1:62:A:ASP:HB3	10	0.15
(3,148)	1:73:A:PRO:HG2	1:93:A:SER:HB3	8	0.15
(3,140)	1:78:A:LEU:HD21	1:88:A:GLU:HG3	9	0.15
(3,129)	1:77:A:ILE:HD11	1:123:A:ILE:HB	4	0.15
(3,128)	1:77:A:ILE:HD12	1:123:A:ILE:HG22	5	0.15
(3,85)	1:39:A:VAL:HG22	1:50:A:VAL:HA	2	0.15
(3,85)	1:39:A:VAL:HG21	1:50:A:VAL:HA	7	0.15
(3,60)	1:53:A:ILE:HG22	1:53:A:ILE:HB	2	0.15
(3,60)	1:53:A:ILE:HG21	1:53:A:ILE:HB	8	0.15
(2,407)	1:42:A:VAL:HG11	1:44:A:ASP:HA	1	0.15
(2,407)	1:42:A:VAL:HG12	1:44:A:ASP:HA	1	0.15
(2,407)	1:42:A:VAL:HG13	1:44:A:ASP:HA	1	0.15
(2,356)	1:115:A:VAL:HG11	1:84:A:TYR:HA	9	0.15
(2,356)	1:115:A:VAL:HG12	1:84:A:TYR:HA	9	0.15
(2,356)	1:115:A:VAL:HG13	1:84:A:TYR:HA	9	0.15
(1,3771)	1:13:A:TYR:HA	1:46:A:TYR:HD1	10	0.15
(1,3771)	1:13:A:TYR:HA	1:46:A:TYR:HD2	10	0.15
(1,3750)	1:14:A:TRP:HZ2	1:63:A:GLN:HB3	10	0.15
(1,3737)	1:5:A:LYS:H	1:3:A:GLU:H	2	0.15
(1,3712)	1:87:A:ASN:HD21	1:84:A:TYR:H	8	0.15
(1,3705)	1:75:A:LYS:H	1:91:A:LEU:HA	2	0.15
(1,3705)	1:75:A:LYS:H	1:91:A:LEU:HA	5	0.15
(1,3700)	1:72:A:ALA:H	1:71:A:PRO:HB2	2	0.15
(1,3670)	1:48:A:ALA:H	1:42:A:VAL:HA	2	0.15
(1,3670)	1:48:A:ALA:H	1:42:A:VAL:HA	5	0.15
(1,3656)	1:32:A:TYR:HB2	1:27:A:LYS:H	7	0.15
(1,3643)	1:13:A:TYR:H	1:63:A:GLN:HE21	6	0.15
(1,3615)	1:119:A:GLN:HE21	1:100:A:SER:HB2	1	0.15
(1,3612)	1:119:A:GLN:HB3	1:119:A:GLN:HE21	2	0.15
(1,3587)	1:95:A:ASN:HA	1:95:A:ASN:HD21	4	0.15
(1,3547)	1:84:A:TYR:HB2	1:79:A:VAL:H	5	0.15
(1,3471)	1:42:A:VAL:HG11	1:16:A:GLN:HE21	3	0.15
(1,3471)	1:42:A:VAL:HG12	1:16:A:GLN:HE21	3	0.15
(1,3471)	1:42:A:VAL:HG13	1:16:A:GLN:HE21	3	0.15
(1,3403)	1:10:A:ARG:HD2	1:10:A:ARG:H	4	0.15
(1,3278)	1:28:A:LEU:H	1:28:A:LEU:HD11	9	0.15
(1,3278)	1:28:A:LEU:H	1:28:A:LEU:HD12	9	0.15
(1,3278)	1:28:A:LEU:H	1:28:A:LEU:HD13	9	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3122)	1:45:A:LYS:H	1:42:A:VAL:HG21	7	0.15
(1,3122)	1:45:A:LYS:H	1:42:A:VAL:HG22	7	0.15
(1,3122)	1:45:A:LYS:H	1:42:A:VAL:HG23	7	0.15
(1,3015)	1:32:A:TYR:HE1	1:57:A:ASP:H	10	0.15
(1,3015)	1:32:A:TYR:HE2	1:57:A:ASP:H	10	0.15
(1,3011)	1:58:A:LYS:H	1:57:A:ASP:HB3	2	0.15
(1,2970)	1:63:A:GLN:H	1:64:A:THR:HG21	1	0.15
(1,2970)	1:63:A:GLN:H	1:64:A:THR:HG22	1	0.15
(1,2970)	1:63:A:GLN:H	1:64:A:THR:HG23	1	0.15
(1,2967)	1:46:A:TYR:HB2	1:63:A:GLN:H	9	0.15
(1,2930)	1:66:A:LEU:H	1:65:A:HIS:HB3	4	0.15
(1,2930)	1:66:A:LEU:H	1:65:A:HIS:HB3	9	0.15
(1,2876)	1:73:A:PRO:HD2	1:72:A:ALA:H	1	0.15
(1,2831)	1:78:A:LEU:H	1:123:A:ILE:HB	1	0.15
(1,2786)	1:81:A:ASN:H	1:86:A:GLY:H	5	0.15
(1,2775)	1:82:A:GLY:H	1:83:A:GLY:H	1	0.15
(1,2775)	1:82:A:GLY:H	1:83:A:GLY:H	6	0.15
(1,2747)	1:85:A:ARG:HB3	1:86:A:GLY:H	1	0.15
(1,2732)	1:84:A:TYR:HB2	1:87:A:ASN:H	8	0.15
(1,2675)	1:92:A:GLU:H	1:91:A:LEU:HG	9	0.15
(1,2636)	1:96:A:GLU:H	1:97:A:LYS:HD2	2	0.15
(1,2529)	1:105:A:ILE:HG13	1:105:A:ILE:H	2	0.15
(1,2509)	1:107:A:THR:H	1:88:A:GLU:H	4	0.15
(1,2477)	1:110:A:LEU:HB3	1:111:A:LYS:H	2	0.15
(1,2363)	1:70:A:ILE:HD11	1:121:A:GLU:H	10	0.15
(1,2363)	1:70:A:ILE:HD12	1:121:A:GLU:H	10	0.15
(1,2363)	1:70:A:ILE:HD13	1:121:A:GLU:H	10	0.15
(1,2339)	1:77:A:ILE:HA	1:124:A:SER:H	5	0.15
(1,2294)	1:19:A:ILE:HD11	1:16:A:GLN:HB2	2	0.15
(1,2294)	1:19:A:ILE:HD12	1:16:A:GLN:HB2	2	0.15
(1,2294)	1:19:A:ILE:HD13	1:16:A:GLN:HB2	2	0.15
(1,2219)	1:120:A:TYR:H	1:101:A:ALA:HB1	9	0.15
(1,2219)	1:120:A:TYR:H	1:101:A:ALA:HB2	9	0.15
(1,2219)	1:120:A:TYR:H	1:101:A:ALA:HB3	9	0.15
(1,2218)	1:102:A:THR:HB	1:103:A:ILE:H	5	0.15
(1,2215)	1:103:A:ILE:HA	1:103:A:ILE:HD11	8	0.15
(1,2215)	1:103:A:ILE:HA	1:103:A:ILE:HD12	8	0.15
(1,2215)	1:103:A:ILE:HA	1:103:A:ILE:HD13	8	0.15
(1,2172)	1:113:A:ARG:HB3	1:105:A:ILE:HG21	8	0.15
(1,2172)	1:113:A:ARG:HB3	1:105:A:ILE:HG22	8	0.15
(1,2172)	1:113:A:ARG:HB3	1:105:A:ILE:HG23	8	0.15
(1,2157)	1:117:A:GLY:HA3	1:100:A:SER:HB3	9	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2110)	1:126:A:LEU:HB3	1:77:A:ILE:HG21	9	0.15
(1,2110)	1:126:A:LEU:HB3	1:77:A:ILE:HG22	9	0.15
(1,2110)	1:126:A:LEU:HB3	1:77:A:ILE:HG23	9	0.15
(1,1916)	1:115:A:VAL:HG11	1:105:A:ILE:H	5	0.15
(1,1916)	1:115:A:VAL:HG12	1:105:A:ILE:H	5	0.15
(1,1916)	1:115:A:VAL:HG13	1:105:A:ILE:H	5	0.15
(1,1885)	1:115:A:VAL:HG11	1:113:A:ARG:HD2	8	0.15
(1,1885)	1:115:A:VAL:HG12	1:113:A:ARG:HD2	8	0.15
(1,1885)	1:115:A:VAL:HG13	1:113:A:ARG:HD2	8	0.15
(1,1765)	1:105:A:ILE:HG21	1:87:A:ASN:HB2	3	0.15
(1,1765)	1:105:A:ILE:HG22	1:87:A:ASN:HB2	3	0.15
(1,1765)	1:105:A:ILE:HG23	1:87:A:ASN:HB2	3	0.15
(1,1758)	1:110:A:LEU:H	1:105:A:ILE:HG21	3	0.15
(1,1758)	1:110:A:LEU:H	1:105:A:ILE:HG22	3	0.15
(1,1758)	1:110:A:LEU:H	1:105:A:ILE:HG23	3	0.15
(1,1739)	1:84:A:TYR:HD1	1:105:A:ILE:HD11	3	0.15
(1,1739)	1:84:A:TYR:HD1	1:105:A:ILE:HD12	3	0.15
(1,1739)	1:84:A:TYR:HD1	1:105:A:ILE:HD13	3	0.15
(1,1739)	1:84:A:TYR:HD2	1:105:A:ILE:HD11	3	0.15
(1,1739)	1:84:A:TYR:HD2	1:105:A:ILE:HD12	3	0.15
(1,1739)	1:84:A:TYR:HD2	1:105:A:ILE:HD13	3	0.15
(1,1688)	1:103:A:ILE:HB	1:103:A:ILE:H	4	0.15
(1,1688)	1:103:A:ILE:HB	1:103:A:ILE:H	8	0.15
(1,1680)	1:102:A:THR:HG21	1:116:A:GLU:HG3	6	0.15
(1,1680)	1:102:A:THR:HG22	1:116:A:GLU:HG3	6	0.15
(1,1680)	1:102:A:THR:HG23	1:116:A:GLU:HG3	6	0.15
(1,1658)	1:102:A:THR:H	1:101:A:ALA:HB1	4	0.15
(1,1658)	1:102:A:THR:H	1:101:A:ALA:HB2	4	0.15
(1,1658)	1:102:A:THR:H	1:101:A:ALA:HB3	4	0.15
(1,1635)	1:100:A:SER:HA	1:100:A:SER:HB2	1	0.15
(1,1635)	1:100:A:SER:HA	1:100:A:SER:HB2	8	0.15
(1,1611)	1:98:A:THR:HA	1:98:A:THR:HB	9	0.15
(1,1585)	1:94:A:ILE:HG21	1:101:A:ALA:HA	6	0.15
(1,1585)	1:94:A:ILE:HG22	1:101:A:ALA:HA	6	0.15
(1,1585)	1:94:A:ILE:HG23	1:101:A:ALA:HA	6	0.15
(1,1531)	1:92:A:GLU:HA	1:74:A:GLY:H	10	0.15
(1,1492)	1:104:A:VAL:H	1:90:A:THR:HB	6	0.15
(1,1492)	1:104:A:VAL:H	1:90:A:THR:HB	10	0.15
(1,1458)	1:88:A:GLU:H	1:87:A:ASN:HB2	3	0.15
(1,1386)	1:81:A:ASN:HA	1:81:A:ASN:HB2	1	0.15
(1,1386)	1:81:A:ASN:HA	1:81:A:ASN:HB2	9	0.15
(1,1303)	1:78:A:LEU:H	1:77:A:ILE:HD11	1	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1303)	1:78:A:LEU:H	1:77:A:ILE:HD12	1	0.15
(1,1303)	1:78:A:LEU:H	1:77:A:ILE:HD13	1	0.15
(1,1277)	1:97:A:LYS:HB3	1:98:A:THR:H	9	0.15
(1,1216)	1:75:A:LYS:HG2	1:72:A:ALA:HB1	5	0.15
(1,1216)	1:75:A:LYS:HG2	1:72:A:ALA:HB2	5	0.15
(1,1216)	1:75:A:LYS:HG2	1:72:A:ALA:HB3	5	0.15
(1,1200)	1:71:A:PRO:HD3	1:70:A:ILE:HG21	6	0.15
(1,1200)	1:71:A:PRO:HD3	1:70:A:ILE:HG22	6	0.15
(1,1200)	1:71:A:PRO:HD3	1:70:A:ILE:HG23	6	0.15
(1,1104)	1:67:A:GLU:HA	1:67:A:GLU:HG2	3	0.15
(1,1104)	1:67:A:GLU:HA	1:67:A:GLU:HG2	9	0.15
(1,1068)	1:21:A:VAL:HB	1:66:A:LEU:HA	7	0.15
(1,957)	1:60:A:LYS:HB3	1:59:A:LEU:HA	7	0.15
(1,951)	1:60:A:LYS:HA	1:50:A:VAL:H	6	0.15
(1,940)	1:61:A:LEU:HG	1:59:A:LEU:HD11	8	0.15
(1,940)	1:61:A:LEU:HG	1:59:A:LEU:HD12	8	0.15
(1,940)	1:61:A:LEU:HG	1:59:A:LEU:HD13	8	0.15
(1,906)	1:58:A:LYS:H	1:57:A:ASP:HB2	2	0.15
(1,906)	1:58:A:LYS:H	1:57:A:ASP:HB2	10	0.15
(1,900)	1:57:A:ASP:HA	1:57:A:ASP:HB3	4	0.15
(1,797)	1:50:A:VAL:HB	1:50:A:VAL:H	10	0.15
(1,780)	1:15:A:LEU:HA	1:48:A:ALA:HB1	6	0.15
(1,780)	1:15:A:LEU:HA	1:48:A:ALA:HB2	6	0.15
(1,780)	1:15:A:LEU:HA	1:48:A:ALA:HB3	6	0.15
(1,711)	1:45:A:LYS:H	1:44:A:ASP:HB2	3	0.15
(1,695)	1:14:A:TRP:HB3	1:80:A:LEU:HD11	3	0.15
(1,695)	1:14:A:TRP:HB3	1:80:A:LEU:HD12	3	0.15
(1,695)	1:14:A:TRP:HB3	1:80:A:LEU:HD13	3	0.15
(1,695)	1:14:A:TRP:HB3	1:80:A:LEU:HD11	8	0.15
(1,695)	1:14:A:TRP:HB3	1:80:A:LEU:HD12	8	0.15
(1,695)	1:14:A:TRP:HB3	1:80:A:LEU:HD13	8	0.15
(1,683)	1:43:A:ILE:HD11	1:43:A:ILE:HA	6	0.15
(1,683)	1:43:A:ILE:HD12	1:43:A:ILE:HA	6	0.15
(1,683)	1:43:A:ILE:HD13	1:43:A:ILE:HA	6	0.15
(1,660)	1:15:A:LEU:H	1:42:A:VAL:HG21	1	0.15
(1,660)	1:15:A:LEU:H	1:42:A:VAL:HG22	1	0.15
(1,660)	1:15:A:LEU:H	1:42:A:VAL:HG23	1	0.15
(1,654)	1:15:A:LEU:HB2	1:42:A:VAL:HG11	9	0.15
(1,654)	1:15:A:LEU:HB2	1:42:A:VAL:HG12	9	0.15
(1,654)	1:15:A:LEU:HB2	1:42:A:VAL:HG13	9	0.15
(1,632)	1:41:A:GLU:HB3	1:41:A:GLU:HG2	8	0.15
(1,629)	1:104:A:VAL:HB	1:104:A:VAL:H	7	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,558)	1:48:A:ALA:HB1	1:39:A:VAL:HB	9	0.15
(1,558)	1:48:A:ALA:HB2	1:39:A:VAL:HB	9	0.15
(1,558)	1:48:A:ALA:HB3	1:39:A:VAL:HB	9	0.15
(1,479)	1:31:A:LYS:HA	1:32:A:TYR:H	6	0.15
(1,455)	1:28:A:LEU:HD11	1:28:A:LEU:HB3	3	0.15
(1,455)	1:28:A:LEU:HD12	1:28:A:LEU:HB3	3	0.15
(1,455)	1:28:A:LEU:HD13	1:28:A:LEU:HB3	3	0.15
(1,430)	1:91:A:LEU:HD11	1:91:A:LEU:HD21	2	0.15
(1,430)	1:91:A:LEU:HD11	1:91:A:LEU:HD22	2	0.15
(1,430)	1:91:A:LEU:HD11	1:91:A:LEU:HD23	2	0.15
(1,430)	1:91:A:LEU:HD12	1:91:A:LEU:HD21	2	0.15
(1,430)	1:91:A:LEU:HD12	1:91:A:LEU:HD22	2	0.15
(1,430)	1:91:A:LEU:HD12	1:91:A:LEU:HD23	2	0.15
(1,430)	1:91:A:LEU:HD13	1:91:A:LEU:HD21	2	0.15
(1,430)	1:91:A:LEU:HD13	1:91:A:LEU:HD22	2	0.15
(1,430)	1:91:A:LEU:HD13	1:91:A:LEU:HD23	2	0.15
(1,430)	1:91:A:LEU:HD11	1:91:A:LEU:HD21	4	0.15
(1,430)	1:91:A:LEU:HD11	1:91:A:LEU:HD22	4	0.15
(1,430)	1:91:A:LEU:HD11	1:91:A:LEU:HD23	4	0.15
(1,430)	1:91:A:LEU:HD12	1:91:A:LEU:HD21	4	0.15
(1,430)	1:91:A:LEU:HD12	1:91:A:LEU:HD22	4	0.15
(1,430)	1:91:A:LEU:HD12	1:91:A:LEU:HD23	4	0.15
(1,430)	1:91:A:LEU:HD13	1:91:A:LEU:HD21	4	0.15
(1,430)	1:91:A:LEU:HD13	1:91:A:LEU:HD22	4	0.15
(1,430)	1:91:A:LEU:HD13	1:91:A:LEU:HD23	4	0.15
(1,430)	1:91:A:LEU:HD11	1:91:A:LEU:HD21	5	0.15
(1,430)	1:91:A:LEU:HD11	1:91:A:LEU:HD22	5	0.15
(1,430)	1:91:A:LEU:HD11	1:91:A:LEU:HD23	5	0.15
(1,430)	1:91:A:LEU:HD12	1:91:A:LEU:HD21	5	0.15
(1,430)	1:91:A:LEU:HD12	1:91:A:LEU:HD22	5	0.15
(1,430)	1:91:A:LEU:HD12	1:91:A:LEU:HD23	5	0.15
(1,430)	1:91:A:LEU:HD13	1:91:A:LEU:HD21	5	0.15
(1,430)	1:91:A:LEU:HD13	1:91:A:LEU:HD22	5	0.15
(1,430)	1:91:A:LEU:HD13	1:91:A:LEU:HD23	5	0.15
(1,430)	1:91:A:LEU:HD11	1:91:A:LEU:HD21	6	0.15
(1,430)	1:91:A:LEU:HD11	1:91:A:LEU:HD22	6	0.15
(1,430)	1:91:A:LEU:HD11	1:91:A:LEU:HD23	6	0.15
(1,430)	1:91:A:LEU:HD12	1:91:A:LEU:HD21	6	0.15
(1,430)	1:91:A:LEU:HD12	1:91:A:LEU:HD22	6	0.15
(1,430)	1:91:A:LEU:HD12	1:91:A:LEU:HD23	6	0.15
(1,430)	1:91:A:LEU:HD13	1:91:A:LEU:HD21	6	0.15
(1,430)	1:91:A:LEU:HD13	1:91:A:LEU:HD22	6	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,430)	1:91:A:LEU:HD13	1:91:A:LEU:HD23	6	0.15
(1,430)	1:91:A:LEU:HD11	1:91:A:LEU:HD21	7	0.15
(1,430)	1:91:A:LEU:HD11	1:91:A:LEU:HD22	7	0.15
(1,430)	1:91:A:LEU:HD11	1:91:A:LEU:HD23	7	0.15
(1,430)	1:91:A:LEU:HD12	1:91:A:LEU:HD21	7	0.15
(1,430)	1:91:A:LEU:HD12	1:91:A:LEU:HD22	7	0.15
(1,430)	1:91:A:LEU:HD12	1:91:A:LEU:HD23	7	0.15
(1,430)	1:91:A:LEU:HD13	1:91:A:LEU:HD21	7	0.15
(1,430)	1:91:A:LEU:HD13	1:91:A:LEU:HD22	7	0.15
(1,430)	1:91:A:LEU:HD13	1:91:A:LEU:HD23	7	0.15
(1,430)	1:91:A:LEU:HD11	1:91:A:LEU:HD21	8	0.15
(1,430)	1:91:A:LEU:HD11	1:91:A:LEU:HD22	8	0.15
(1,430)	1:91:A:LEU:HD11	1:91:A:LEU:HD23	8	0.15
(1,430)	1:91:A:LEU:HD12	1:91:A:LEU:HD21	8	0.15
(1,430)	1:91:A:LEU:HD12	1:91:A:LEU:HD22	8	0.15
(1,430)	1:91:A:LEU:HD12	1:91:A:LEU:HD23	8	0.15
(1,430)	1:91:A:LEU:HD13	1:91:A:LEU:HD21	8	0.15
(1,430)	1:91:A:LEU:HD13	1:91:A:LEU:HD22	8	0.15
(1,430)	1:91:A:LEU:HD13	1:91:A:LEU:HD23	8	0.15
(1,426)	1:91:A:LEU:HD21	1:102:A:THR:H	1	0.15
(1,426)	1:91:A:LEU:HD22	1:102:A:THR:H	1	0.15
(1,426)	1:91:A:LEU:HD23	1:102:A:THR:H	1	0.15
(1,401)	1:23:A:ILE:HA	1:24:A:ILE:HG21	6	0.15
(1,401)	1:23:A:ILE:HA	1:24:A:ILE:HG22	6	0.15
(1,401)	1:23:A:ILE:HA	1:24:A:ILE:HG23	6	0.15
(1,387)	1:65:A:HIS:HA	1:24:A:ILE:HD11	4	0.15
(1,387)	1:65:A:HIS:HA	1:24:A:ILE:HD12	4	0.15
(1,387)	1:65:A:HIS:HA	1:24:A:ILE:HD13	4	0.15
(1,205)	1:17:A:PRO:HA	1:17:A:PRO:HG2	4	0.15
(1,150)	1:48:A:ALA:H	1:15:A:LEU:HD21	4	0.15
(1,150)	1:48:A:ALA:H	1:15:A:LEU:HD22	4	0.15
(1,150)	1:48:A:ALA:H	1:15:A:LEU:HD23	4	0.15
(1,102)	1:14:A:TRP:HB3	1:14:A:TRP:HE3	9	0.15
(1,35)	1:113:A:ARG:HG3	1:114:A:ARG:H	9	0.15
(3,1167)	1:115:A:VAL:HG21	1:115:A:VAL:HB	4	0.14
(3,1167)	1:115:A:VAL:HG22	1:115:A:VAL:HB	8	0.14
(3,1146)	1:115:A:VAL:HA	1:103:A:ILE:H	1	0.14
(3,1057)	1:8:A:THR:HA	1:8:A:THR:HG23	9	0.14
(3,1057)	1:8:A:THR:HA	1:8:A:THR:HG23	10	0.14
(3,993)	1:61:A:LEU:HG	1:50:A:VAL:H	10	0.14
(3,965)	1:95:A:ASN:H	1:101:A:ALA:H	5	0.14
(3,928)	1:94:A:ILE:HG22	1:91:A:LEU:HA	6	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,919)	1:27:A:LYS:HD3	1:65:A:HIS:HE1	1	0.14
(3,900)	1:34:A:LYS:HE3	1:34:A:LYS:HG3	7	0.14
(3,890)	1:68:A:THR:HB	1:124:A:SER:H	10	0.14
(3,854)	1:104:A:VAL:HA	1:103:A:ILE:HB	2	0.14
(3,826)	1:5:A:LYS:H	1:5:A:LYS:HA	5	0.14
(3,823)	1:123:A:ILE:HG13	1:123:A:ILE:HG21	1	0.14
(3,823)	1:123:A:ILE:HG13	1:123:A:ILE:HG21	3	0.14
(3,823)	1:123:A:ILE:HG13	1:123:A:ILE:HG22	4	0.14
(3,819)	1:32:A:TYR:HD1	1:28:A:LEU:HG	5	0.14
(3,817)	1:84:A:TYR:HA	1:85:A:ARG:H	4	0.14
(3,655)	1:28:A:LEU:HD22	1:28:A:LEU:HG	4	0.14
(3,655)	1:28:A:LEU:HD23	1:28:A:LEU:HG	6	0.14
(3,633)	1:51:A:LYS:HG3	1:56:A:GLY:H	5	0.14
(3,559)	1:23:A:ILE:HD11	1:33:A:HIS:H	6	0.14
(3,518)	1:96:A:GLU:HG3	1:97:A:LYS:HG3	4	0.14
(3,487)	1:40:A:LYS:HE3	1:38:A:ILE:HB	6	0.14
(3,487)	1:75:A:LYS:HE3	1:75:A:LYS:HG3	7	0.14
(3,485)	1:127:A:ALA:H	1:126:A:LEU:HB3	4	0.14
(3,450)	1:103:A:ILE:HG21	1:102:A:THR:HA	5	0.14
(3,423)	1:61:A:LEU:HD11	1:25:A:THR:H	7	0.14
(3,353)	1:28:A:LEU:HD21	1:28:A:LEU:HB3	6	0.14
(3,332)	1:43:A:ILE:HG21	1:43:A:ILE:HG13	1	0.14
(3,312)	1:106:A:GLU:HG2	1:106:A:GLU:H	3	0.14
(3,310)	1:111:A:LYS:HD2	1:111:A:LYS:HG2	4	0.14
(3,310)	1:111:A:LYS:HD2	1:111:A:LYS:HG2	9	0.14
(3,272)	1:47:A:THR:HG23	1:62:A:ASP:HA	3	0.14
(3,180)	1:65:A:HIS:H	1:62:A:ASP:HB3	7	0.14
(3,144)	1:96:A:GLU:HB2	1:97:A:LYS:H	10	0.14
(3,69)	1:66:A:LEU:HD13	1:21:A:VAL:HB	1	0.14
(3,69)	1:66:A:LEU:HD11	1:21:A:VAL:HB	3	0.14
(3,60)	1:53:A:ILE:HG23	1:53:A:ILE:HB	1	0.14
(3,60)	1:53:A:ILE:HG23	1:53:A:ILE:HB	4	0.14
(3,60)	1:53:A:ILE:HG23	1:53:A:ILE:HB	6	0.14
(3,60)	1:53:A:ILE:HG21	1:53:A:ILE:HB	9	0.14
(3,60)	1:53:A:ILE:HG21	1:53:A:ILE:HB	10	0.14
(2,477)	1:102:A:THR:H	1:92:A:GLU:HG3	10	0.14
(2,361)	1:84:A:TYR:HB2	1:103:A:ILE:HG13	5	0.14
(2,229)	1:104:A:VAL:HG21	1:115:A:VAL:HG11	9	0.14
(2,229)	1:104:A:VAL:HG21	1:115:A:VAL:HG12	9	0.14
(2,229)	1:104:A:VAL:HG21	1:115:A:VAL:HG13	9	0.14
(2,229)	1:104:A:VAL:HG22	1:115:A:VAL:HG11	9	0.14
(2,229)	1:104:A:VAL:HG22	1:115:A:VAL:HG12	9	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,229)	1:104:A:VAL:HG22	1:115:A:VAL:HG13	9	0.14
(2,229)	1:104:A:VAL:HG23	1:115:A:VAL:HG11	9	0.14
(2,229)	1:104:A:VAL:HG23	1:115:A:VAL:HG12	9	0.14
(2,229)	1:104:A:VAL:HG23	1:115:A:VAL:HG13	9	0.14
(1,3855)	1:120:A:TYR:H	1:120:A:TYR:HE1	1	0.14
(1,3855)	1:120:A:TYR:H	1:120:A:TYR:HE2	1	0.14
(1,3781)	1:14:A:TRP:HA	1:13:A:TYR:HD1	4	0.14
(1,3781)	1:14:A:TRP:HA	1:13:A:TYR:HD2	4	0.14
(1,3770)	1:63:A:GLN:HE22	1:46:A:TYR:HD1	10	0.14
(1,3770)	1:63:A:GLN:HE22	1:46:A:TYR:HD2	10	0.14
(1,3715)	1:84:A:TYR:HE1	1:87:A:ASN:HD22	10	0.14
(1,3715)	1:84:A:TYR:HE2	1:87:A:ASN:HD22	10	0.14
(1,3676)	1:49:A:VAL:H	1:43:A:ILE:HB	1	0.14
(1,3670)	1:48:A:ALA:H	1:42:A:VAL:HA	10	0.14
(1,3665)	1:48:A:ALA:HB1	1:42:A:VAL:H	6	0.14
(1,3665)	1:48:A:ALA:HB2	1:42:A:VAL:H	6	0.14
(1,3665)	1:48:A:ALA:HB3	1:42:A:VAL:H	6	0.14
(1,3665)	1:48:A:ALA:HB1	1:42:A:VAL:H	7	0.14
(1,3665)	1:48:A:ALA:HB2	1:42:A:VAL:H	7	0.14
(1,3665)	1:48:A:ALA:HB3	1:42:A:VAL:H	7	0.14
(1,3612)	1:119:A:GLN:HB3	1:119:A:GLN:HE21	4	0.14
(1,3600)	1:110:A:LEU:H	1:111:A:LYS:HA	2	0.14
(1,3544)	1:66:A:LEU:HD11	1:65:A:HIS:H	1	0.14
(1,3544)	1:66:A:LEU:HD12	1:65:A:HIS:H	1	0.14
(1,3544)	1:66:A:LEU:HD13	1:65:A:HIS:H	1	0.14
(1,3511)	1:43:A:ILE:H	1:41:A:GLU:HG3	1	0.14
(1,3511)	1:43:A:ILE:H	1:41:A:GLU:HG3	10	0.14
(1,3309)	1:23:A:ILE:H	1:23:A:ILE:HD11	9	0.14
(1,3309)	1:23:A:ILE:H	1:23:A:ILE:HD12	9	0.14
(1,3309)	1:23:A:ILE:H	1:23:A:ILE:HD13	9	0.14
(1,3308)	1:23:A:ILE:H	1:23:A:ILE:HG12	1	0.14
(1,3308)	1:23:A:ILE:H	1:23:A:ILE:HG12	5	0.14
(1,3308)	1:23:A:ILE:H	1:23:A:ILE:HG12	10	0.14
(1,3245)	1:30:A:GLU:HG2	1:33:A:HIS:H	6	0.14
(1,3163)	1:49:A:VAL:HG21	1:41:A:GLU:H	6	0.14
(1,3163)	1:49:A:VAL:HG22	1:41:A:GLU:H	6	0.14
(1,3163)	1:49:A:VAL:HG23	1:41:A:GLU:H	6	0.14
(1,3100)	1:48:A:ALA:HB1	1:47:A:THR:H	7	0.14
(1,3100)	1:48:A:ALA:HB2	1:47:A:THR:H	7	0.14
(1,3100)	1:48:A:ALA:HB3	1:47:A:THR:H	7	0.14
(1,2876)	1:73:A:PRO:HD2	1:72:A:ALA:H	6	0.14
(1,2876)	1:73:A:PRO:HD2	1:72:A:ALA:H	8	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2750)	1:79:A:VAL:HG21	1:86:A:GLY:H	5	0.14
(1,2750)	1:79:A:VAL:HG22	1:86:A:GLY:H	5	0.14
(1,2750)	1:79:A:VAL:HG23	1:86:A:GLY:H	5	0.14
(1,2732)	1:84:A:TYR:HB2	1:87:A:ASN:H	4	0.14
(1,2732)	1:84:A:TYR:HB2	1:87:A:ASN:H	10	0.14
(1,2675)	1:92:A:GLU:H	1:91:A:LEU:HG	8	0.14
(1,2641)	1:95:A:ASN:HD21	1:95:A:ASN:H	4	0.14
(1,2640)	1:102:A:THR:H	1:95:A:ASN:H	2	0.14
(1,2625)	1:97:A:LYS:H	1:99:A:PHE:H	8	0.14
(1,2588)	1:100:A:SER:H	1:100:A:SER:HB3	7	0.14
(1,2529)	1:105:A:ILE:HG13	1:105:A:ILE:H	1	0.14
(1,2529)	1:105:A:ILE:HG13	1:105:A:ILE:H	8	0.14
(1,2465)	1:113:A:ARG:HB3	1:113:A:ARG:H	10	0.14
(1,2461)	1:84:A:TYR:HE1	1:113:A:ARG:H	1	0.14
(1,2461)	1:84:A:TYR:HE2	1:113:A:ARG:H	1	0.14
(1,2459)	1:113:A:ARG:H	1:107:A:THR:H	10	0.14
(1,2454)	1:113:A:ARG:HD2	1:114:A:ARG:H	6	0.14
(1,2441)	1:84:A:TYR:HE1	1:116:A:GLU:H	8	0.14
(1,2441)	1:84:A:TYR:HE2	1:116:A:GLU:H	8	0.14
(1,2411)	1:118:A:ILE:H	1:101:A:ALA:HA	4	0.14
(1,2400)	1:119:A:GLN:H	1:100:A:SER:HB2	7	0.14
(1,2397)	1:122:A:ASP:HA	1:119:A:GLN:H	2	0.14
(1,2330)	1:125:A:LYS:HE2	1:125:A:LYS:H	4	0.14
(1,2330)	1:125:A:LYS:HE2	1:125:A:LYS:H	7	0.14
(1,2283)	1:68:A:THR:HG21	1:21:A:VAL:HG11	6	0.14
(1,2283)	1:68:A:THR:HG21	1:21:A:VAL:HG12	6	0.14
(1,2283)	1:68:A:THR:HG21	1:21:A:VAL:HG13	6	0.14
(1,2283)	1:68:A:THR:HG22	1:21:A:VAL:HG11	6	0.14
(1,2283)	1:68:A:THR:HG22	1:21:A:VAL:HG12	6	0.14
(1,2283)	1:68:A:THR:HG22	1:21:A:VAL:HG13	6	0.14
(1,2283)	1:68:A:THR:HG23	1:21:A:VAL:HG11	6	0.14
(1,2283)	1:68:A:THR:HG23	1:21:A:VAL:HG12	6	0.14
(1,2283)	1:68:A:THR:HG23	1:21:A:VAL:HG13	6	0.14
(1,2221)	1:91:A:LEU:HD21	1:101:A:ALA:HA	8	0.14
(1,2221)	1:91:A:LEU:HD22	1:101:A:ALA:HA	8	0.14
(1,2221)	1:91:A:LEU:HD23	1:101:A:ALA:HA	8	0.14
(1,2219)	1:120:A:TYR:H	1:101:A:ALA:HB1	2	0.14
(1,2219)	1:120:A:TYR:H	1:101:A:ALA:HB2	2	0.14
(1,2219)	1:120:A:TYR:H	1:101:A:ALA:HB3	2	0.14
(1,2218)	1:102:A:THR:HB	1:103:A:ILE:H	1	0.14
(1,2218)	1:102:A:THR:HB	1:103:A:ILE:H	7	0.14
(1,2215)	1:103:A:ILE:HA	1:103:A:ILE:HD11	4	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2215)	1:103:A:ILE:HA	1:103:A:ILE:HD12	4	0.14
(1,2215)	1:103:A:ILE:HA	1:103:A:ILE:HD13	4	0.14
(1,2215)	1:103:A:ILE:HA	1:103:A:ILE:HD11	9	0.14
(1,2215)	1:103:A:ILE:HA	1:103:A:ILE:HD12	9	0.14
(1,2215)	1:103:A:ILE:HA	1:103:A:ILE:HD13	9	0.14
(1,2207)	1:103:A:ILE:HG21	1:118:A:ILE:HB	9	0.14
(1,2207)	1:103:A:ILE:HG22	1:118:A:ILE:HB	9	0.14
(1,2207)	1:103:A:ILE:HG23	1:118:A:ILE:HB	9	0.14
(1,2197)	1:106:A:GLU:HB2	1:105:A:ILE:HA	9	0.14
(1,2194)	1:107:A:THR:HG21	1:87:A:ASN:HA	10	0.14
(1,2194)	1:107:A:THR:HG22	1:87:A:ASN:HA	10	0.14
(1,2194)	1:107:A:THR:HG23	1:87:A:ASN:HA	10	0.14
(1,2155)	1:118:A:ILE:HA	1:101:A:ALA:H	9	0.14
(1,2128)	1:70:A:ILE:HD11	1:121:A:GLU:HA	9	0.14
(1,2128)	1:70:A:ILE:HD12	1:121:A:GLU:HA	9	0.14
(1,2128)	1:70:A:ILE:HD13	1:121:A:GLU:HA	9	0.14
(1,2110)	1:126:A:LEU:HB3	1:77:A:ILE:HG21	2	0.14
(1,2110)	1:126:A:LEU:HB3	1:77:A:ILE:HG22	2	0.14
(1,2110)	1:126:A:LEU:HB3	1:77:A:ILE:HG23	2	0.14
(1,2049)	1:19:A:ILE:HB	1:124:A:SER:HB2	4	0.14
(1,2049)	1:19:A:ILE:HB	1:124:A:SER:HB2	5	0.14
(1,2049)	1:19:A:ILE:HB	1:124:A:SER:HB2	8	0.14
(1,1950)	1:118:A:ILE:HA	1:101:A:ALA:H	2	0.14
(1,1936)	1:116:A:GLU:H	1:116:A:GLU:HG2	2	0.14
(1,1888)	1:76:A:ARG:HD2	1:90:A:THR:HG21	7	0.14
(1,1888)	1:76:A:ARG:HD2	1:90:A:THR:HG22	7	0.14
(1,1888)	1:76:A:ARG:HD2	1:90:A:THR:HG23	7	0.14
(1,1882)	1:113:A:ARG:HA	1:113:A:ARG:HD2	10	0.14
(1,1765)	1:105:A:ILE:HG21	1:87:A:ASN:HB2	6	0.14
(1,1765)	1:105:A:ILE:HG22	1:87:A:ASN:HB2	6	0.14
(1,1765)	1:105:A:ILE:HG23	1:87:A:ASN:HB2	6	0.14
(1,1688)	1:103:A:ILE:HB	1:103:A:ILE:H	10	0.14
(1,1678)	1:102:A:THR:HG21	1:103:A:ILE:HA	4	0.14
(1,1678)	1:102:A:THR:HG22	1:103:A:ILE:HA	4	0.14
(1,1678)	1:102:A:THR:HG23	1:103:A:ILE:HA	4	0.14
(1,1663)	1:91:A:LEU:HD21	1:101:A:ALA:HB1	7	0.14
(1,1663)	1:91:A:LEU:HD21	1:101:A:ALA:HB2	7	0.14
(1,1663)	1:91:A:LEU:HD21	1:101:A:ALA:HB3	7	0.14
(1,1663)	1:91:A:LEU:HD22	1:101:A:ALA:HB1	7	0.14
(1,1663)	1:91:A:LEU:HD22	1:101:A:ALA:HB2	7	0.14
(1,1663)	1:91:A:LEU:HD22	1:101:A:ALA:HB3	7	0.14
(1,1663)	1:91:A:LEU:HD23	1:101:A:ALA:HB1	7	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1663)	1:91:A:LEU:HD23	1:101:A:ALA:HB2	7	0.14
(1,1663)	1:91:A:LEU:HD23	1:101:A:ALA:HB3	7	0.14
(1,1635)	1:100:A:SER:HA	1:100:A:SER:HB2	7	0.14
(1,1616)	1:98:A:THR:HG21	1:98:A:THR:H	7	0.14
(1,1616)	1:98:A:THR:HG22	1:98:A:THR:H	7	0.14
(1,1616)	1:98:A:THR:HG23	1:98:A:THR:H	7	0.14
(1,1611)	1:98:A:THR:HA	1:98:A:THR:HB	5	0.14
(1,1585)	1:94:A:ILE:HG21	1:101:A:ALA:HA	9	0.14
(1,1585)	1:94:A:ILE:HG22	1:101:A:ALA:HA	9	0.14
(1,1585)	1:94:A:ILE:HG23	1:101:A:ALA:HA	9	0.14
(1,1537)	1:97:A:LYS:HB3	1:98:A:THR:H	2	0.14
(1,1518)	1:75:A:LYS:H	1:91:A:LEU:HD11	2	0.14
(1,1518)	1:75:A:LYS:H	1:91:A:LEU:HD12	2	0.14
(1,1518)	1:75:A:LYS:H	1:91:A:LEU:HD13	2	0.14
(1,1458)	1:88:A:GLU:H	1:87:A:ASN:HB2	5	0.14
(1,1434)	1:85:A:ARG:HA	1:81:A:ASN:HA	5	0.14
(1,1386)	1:81:A:ASN:HA	1:81:A:ASN:HB2	4	0.14
(1,1352)	1:90:A:THR:HG21	1:74:A:GLY:HA2	8	0.14
(1,1352)	1:90:A:THR:HG22	1:74:A:GLY:HA2	8	0.14
(1,1352)	1:90:A:THR:HG23	1:74:A:GLY:HA2	8	0.14
(1,1306)	1:77:A:ILE:HD11	1:90:A:THR:HA	5	0.14
(1,1306)	1:77:A:ILE:HD12	1:90:A:THR:HA	5	0.14
(1,1306)	1:77:A:ILE:HD13	1:90:A:THR:HA	5	0.14
(1,1303)	1:78:A:LEU:H	1:77:A:ILE:HD11	2	0.14
(1,1303)	1:78:A:LEU:H	1:77:A:ILE:HD12	2	0.14
(1,1303)	1:78:A:LEU:H	1:77:A:ILE:HD13	2	0.14
(1,1223)	1:73:A:PRO:HA	1:91:A:LEU:HG	2	0.14
(1,1209)	1:73:A:PRO:HD2	1:72:A:ALA:HA	4	0.14
(1,971)	1:65:A:HIS:HB3	1:61:A:LEU:HB2	5	0.14
(1,922)	1:60:A:LYS:HE2	1:60:A:LYS:HA	6	0.14
(1,889)	1:54:A:ASP:HB2	1:53:A:ILE:HG21	3	0.14
(1,889)	1:54:A:ASP:HB2	1:53:A:ILE:HG22	3	0.14
(1,889)	1:54:A:ASP:HB2	1:53:A:ILE:HG23	3	0.14
(1,862)	1:53:A:ILE:HB	1:53:A:ILE:HD11	4	0.14
(1,862)	1:53:A:ILE:HB	1:53:A:ILE:HD12	4	0.14
(1,862)	1:53:A:ILE:HB	1:53:A:ILE:HD13	4	0.14
(1,842)	1:53:A:ILE:HA	1:53:A:ILE:HG13	5	0.14
(1,797)	1:50:A:VAL:HB	1:50:A:VAL:H	2	0.14
(1,797)	1:50:A:VAL:HB	1:50:A:VAL:H	7	0.14
(1,654)	1:15:A:LEU:HB2	1:42:A:VAL:HG11	2	0.14
(1,654)	1:15:A:LEU:HB2	1:42:A:VAL:HG12	2	0.14
(1,654)	1:15:A:LEU:HB2	1:42:A:VAL:HG13	2	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,530)	1:37:A:ALA:HB1	1:38:A:ILE:H	3	0.14
(1,530)	1:37:A:ALA:HB2	1:38:A:ILE:H	3	0.14
(1,530)	1:37:A:ALA:HB3	1:38:A:ILE:H	3	0.14
(1,478)	1:31:A:LYS:HB3	1:31:A:LYS:HA	10	0.14
(1,453)	1:32:A:TYR:HD1	1:28:A:LEU:HD11	2	0.14
(1,453)	1:32:A:TYR:HD1	1:28:A:LEU:HD12	2	0.14
(1,453)	1:32:A:TYR:HD1	1:28:A:LEU:HD13	2	0.14
(1,453)	1:32:A:TYR:HD2	1:28:A:LEU:HD11	2	0.14
(1,453)	1:32:A:TYR:HD2	1:28:A:LEU:HD12	2	0.14
(1,453)	1:32:A:TYR:HD2	1:28:A:LEU:HD13	2	0.14
(1,439)	1:60:A:LYS:HD2	1:60:A:LYS:HA	1	0.14
(1,430)	1:91:A:LEU:HD11	1:91:A:LEU:HD21	1	0.14
(1,430)	1:91:A:LEU:HD11	1:91:A:LEU:HD22	1	0.14
(1,430)	1:91:A:LEU:HD11	1:91:A:LEU:HD23	1	0.14
(1,430)	1:91:A:LEU:HD12	1:91:A:LEU:HD21	1	0.14
(1,430)	1:91:A:LEU:HD12	1:91:A:LEU:HD22	1	0.14
(1,430)	1:91:A:LEU:HD12	1:91:A:LEU:HD23	1	0.14
(1,430)	1:91:A:LEU:HD13	1:91:A:LEU:HD21	1	0.14
(1,430)	1:91:A:LEU:HD13	1:91:A:LEU:HD22	1	0.14
(1,430)	1:91:A:LEU:HD13	1:91:A:LEU:HD23	1	0.14
(1,430)	1:91:A:LEU:HD11	1:91:A:LEU:HD21	3	0.14
(1,430)	1:91:A:LEU:HD11	1:91:A:LEU:HD22	3	0.14
(1,430)	1:91:A:LEU:HD11	1:91:A:LEU:HD23	3	0.14
(1,430)	1:91:A:LEU:HD12	1:91:A:LEU:HD21	3	0.14
(1,430)	1:91:A:LEU:HD12	1:91:A:LEU:HD22	3	0.14
(1,430)	1:91:A:LEU:HD12	1:91:A:LEU:HD23	3	0.14
(1,430)	1:91:A:LEU:HD13	1:91:A:LEU:HD21	3	0.14
(1,430)	1:91:A:LEU:HD13	1:91:A:LEU:HD22	3	0.14
(1,430)	1:91:A:LEU:HD13	1:91:A:LEU:HD23	3	0.14
(1,430)	1:91:A:LEU:HD11	1:91:A:LEU:HD21	9	0.14
(1,430)	1:91:A:LEU:HD11	1:91:A:LEU:HD22	9	0.14
(1,430)	1:91:A:LEU:HD11	1:91:A:LEU:HD23	9	0.14
(1,430)	1:91:A:LEU:HD12	1:91:A:LEU:HD21	9	0.14
(1,430)	1:91:A:LEU:HD12	1:91:A:LEU:HD22	9	0.14
(1,430)	1:91:A:LEU:HD12	1:91:A:LEU:HD23	9	0.14
(1,430)	1:91:A:LEU:HD13	1:91:A:LEU:HD21	9	0.14
(1,430)	1:91:A:LEU:HD13	1:91:A:LEU:HD22	9	0.14
(1,430)	1:91:A:LEU:HD13	1:91:A:LEU:HD23	9	0.14
(1,375)	1:23:A:ILE:HG21	1:66:A:LEU:HA	3	0.14
(1,375)	1:23:A:ILE:HG22	1:66:A:LEU:HA	3	0.14
(1,375)	1:23:A:ILE:HG23	1:66:A:LEU:HA	3	0.14
(1,288)	1:20:A:ILE:H	1:20:A:ILE:HG12	5	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,265)	1:19:A:ILE:HG21	1:18:A:GLU:H	6	0.14
(1,265)	1:19:A:ILE:HG22	1:18:A:GLU:H	6	0.14
(1,265)	1:19:A:ILE:HG23	1:18:A:GLU:H	6	0.14
(1,154)	1:16:A:GLN:HA	1:16:A:GLN:HB3	3	0.14
(1,150)	1:48:A:ALA:H	1:15:A:LEU:HD21	3	0.14
(1,150)	1:48:A:ALA:H	1:15:A:LEU:HD22	3	0.14
(1,150)	1:48:A:ALA:H	1:15:A:LEU:HD23	3	0.14
(1,150)	1:48:A:ALA:H	1:15:A:LEU:HD21	5	0.14
(1,150)	1:48:A:ALA:H	1:15:A:LEU:HD22	5	0.14
(1,150)	1:48:A:ALA:H	1:15:A:LEU:HD23	5	0.14
(1,106)	1:14:A:TRP:HB3	1:80:A:LEU:HD11	7	0.14
(1,106)	1:14:A:TRP:HB3	1:80:A:LEU:HD12	7	0.14
(1,106)	1:14:A:TRP:HB3	1:80:A:LEU:HD13	7	0.14
(1,35)	1:113:A:ARG:HG3	1:114:A:ARG:H	3	0.14
(1,24)	1:7:A:ARG:HA	1:7:A:ARG:HB3	8	0.14
(1,24)	1:7:A:ARG:HA	1:7:A:ARG:HB3	9	0.14
(3,1182)	1:98:A:THR:HG23	1:98:A:THR:HA	7	0.13
(3,1167)	1:115:A:VAL:HG22	1:115:A:VAL:HB	3	0.13
(3,1167)	1:115:A:VAL:HG22	1:115:A:VAL:HB	5	0.13
(3,1167)	1:115:A:VAL:HG21	1:115:A:VAL:HB	6	0.13
(3,1167)	1:115:A:VAL:HG22	1:115:A:VAL:HB	10	0.13
(3,1135)	1:79:A:VAL:H	1:123:A:ILE:HG22	7	0.13
(3,1053)	1:21:A:VAL:HG23	1:66:A:LEU:HD21	8	0.13
(3,965)	1:95:A:ASN:H	1:101:A:ALA:H	1	0.13
(3,890)	1:68:A:THR:HB	1:124:A:SER:H	9	0.13
(3,855)	1:17:A:PRO:HD2	1:16:A:GLN:HB2	2	0.13
(3,855)	1:17:A:PRO:HD3	1:16:A:GLN:HB2	8	0.13
(3,844)	1:106:A:GLU:H	1:106:A:GLU:HA	1	0.13
(3,844)	1:106:A:GLU:H	1:106:A:GLU:HA	5	0.13
(3,844)	1:106:A:GLU:H	1:106:A:GLU:HA	8	0.13
(3,844)	1:106:A:GLU:H	1:106:A:GLU:HA	9	0.13
(3,844)	1:106:A:GLU:H	1:106:A:GLU:HA	10	0.13
(3,823)	1:123:A:ILE:HG13	1:123:A:ILE:HG21	8	0.13
(3,823)	1:123:A:ILE:HG13	1:123:A:ILE:HG21	9	0.13
(3,817)	1:84:A:TYR:HA	1:85:A:ARG:H	1	0.13
(3,816)	1:77:A:ILE:H	1:91:A:LEU:H	2	0.13
(3,781)	1:113:A:ARG:HD2	1:114:A:ARG:HA	4	0.13
(3,780)	1:45:A:LYS:HA	1:45:A:LYS:HD3	2	0.13
(3,732)	1:48:A:ALA:HB2	1:43:A:ILE:H	1	0.13
(3,729)	1:26:A:LYS:HD2	1:26:A:LYS:HE3	4	0.13
(3,729)	1:26:A:LYS:HD2	1:26:A:LYS:HE3	8	0.13
(3,729)	1:26:A:LYS:HD2	1:26:A:LYS:HE3	9	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,655)	1:26:A:LYS:HG2	1:26:A:LYS:HD3	1	0.13
(3,655)	1:26:A:LYS:HG3	1:26:A:LYS:HD2	10	0.13
(3,580)	1:92:A:GLU:HB3	1:92:A:GLU:HA	2	0.13
(3,580)	1:92:A:GLU:HB3	1:92:A:GLU:HA	8	0.13
(3,567)	1:89:A:GLY:HA2	1:105:A:ILE:HD13	9	0.13
(3,485)	1:127:A:ALA:H	1:126:A:LEU:HB3	1	0.13
(3,310)	1:111:A:LYS:HD3	1:111:A:LYS:HG3	5	0.13
(3,310)	1:51:A:LYS:HD2	1:51:A:LYS:HG3	10	0.13
(3,257)	1:53:A:ILE:H	1:53:A:ILE:HD13	10	0.13
(3,211)	1:118:A:ILE:H	1:116:A:GLU:HB3	1	0.13
(3,211)	1:118:A:ILE:H	1:116:A:GLU:HB3	7	0.13
(3,144)	1:96:A:GLU:HB2	1:97:A:LYS:H	7	0.13
(3,69)	1:66:A:LEU:HD12	1:21:A:VAL:HB	9	0.13
(3,60)	1:53:A:ILE:HG23	1:53:A:ILE:HB	3	0.13
(3,60)	1:53:A:ILE:HG22	1:53:A:ILE:HB	5	0.13
(3,60)	1:53:A:ILE:HG23	1:53:A:ILE:HB	7	0.13
(2,626)	1:48:A:ALA:H	1:60:A:LYS:HE3	2	0.13
(2,531)	1:69:A:VAL:H	1:71:A:PRO:HD2	8	0.13
(2,61)	1:26:A:LYS:HE2	1:24:A:ILE:HA	8	0.13
(1,3684)	1:50:A:VAL:HG21	1:60:A:LYS:H	10	0.13
(1,3684)	1:50:A:VAL:HG22	1:60:A:LYS:H	10	0.13
(1,3684)	1:50:A:VAL:HG23	1:60:A:LYS:H	10	0.13
(1,3665)	1:48:A:ALA:HB1	1:42:A:VAL:H	5	0.13
(1,3665)	1:48:A:ALA:HB2	1:42:A:VAL:H	5	0.13
(1,3665)	1:48:A:ALA:HB3	1:42:A:VAL:H	5	0.13
(1,3642)	1:13:A:TYR:H	1:45:A:LYS:HB2	4	0.13
(1,3631)	1:23:A:ILE:H	1:32:A:TYR:HB3	5	0.13
(1,3631)	1:23:A:ILE:H	1:32:A:TYR:HB3	6	0.13
(1,3612)	1:119:A:GLN:HB3	1:119:A:GLN:HE21	1	0.13
(1,3612)	1:119:A:GLN:HB3	1:119:A:GLN:HE21	5	0.13
(1,3544)	1:66:A:LEU:HD11	1:65:A:HIS:H	8	0.13
(1,3544)	1:66:A:LEU:HD12	1:65:A:HIS:H	8	0.13
(1,3544)	1:66:A:LEU:HD13	1:65:A:HIS:H	8	0.13
(1,3537)	1:46:A:TYR:HE1	1:63:A:GLN:HE21	5	0.13
(1,3537)	1:46:A:TYR:HE2	1:63:A:GLN:HE21	5	0.13
(1,3537)	1:46:A:TYR:HE1	1:63:A:GLN:HE21	8	0.13
(1,3537)	1:46:A:TYR:HE2	1:63:A:GLN:HE21	8	0.13
(1,3520)	1:52:A:MET:HG2	1:59:A:LEU:H	2	0.13
(1,3501)	1:40:A:LYS:HE3	1:38:A:ILE:H	4	0.13
(1,3456)	1:16:A:GLN:HG3	1:16:A:GLN:HE22	8	0.13
(1,3453)	1:14:A:TRP:HA	1:16:A:GLN:HE22	3	0.13
(1,3446)	1:68:A:THR:HG21	1:14:A:TRP:HE1	6	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3446)	1:68:A:THR:HG22	1:14:A:TRP:HE1	6	0.13
(1,3446)	1:68:A:THR:HG23	1:14:A:TRP:HE1	6	0.13
(1,3402)	1:9:A:ALA:HA	1:10:A:ARG:H	6	0.13
(1,3389)	1:82:A:GLY:H	1:11:A:THR:H	9	0.13
(1,3265)	1:29:A:GLY:H	1:28:A:LEU:HB2	6	0.13
(1,3255)	1:31:A:LYS:HG3	1:32:A:TYR:H	5	0.13
(1,3225)	1:35:A:LYS:H	1:34:A:LYS:HG3	7	0.13
(1,3209)	1:36:A:LYS:H	1:53:A:ILE:HD11	6	0.13
(1,3209)	1:36:A:LYS:H	1:53:A:ILE:HD12	6	0.13
(1,3209)	1:36:A:LYS:H	1:53:A:ILE:HD13	6	0.13
(1,3136)	1:44:A:ASP:H	1:42:A:VAL:HG21	3	0.13
(1,3136)	1:44:A:ASP:H	1:42:A:VAL:HG22	3	0.13
(1,3136)	1:44:A:ASP:H	1:42:A:VAL:HG23	3	0.13
(1,2876)	1:73:A:PRO:HD2	1:72:A:ALA:H	10	0.13
(1,2786)	1:81:A:ASN:H	1:86:A:GLY:H	3	0.13
(1,2775)	1:82:A:GLY:H	1:83:A:GLY:H	7	0.13
(1,2775)	1:82:A:GLY:H	1:83:A:GLY:H	9	0.13
(1,2769)	1:84:A:TYR:H	1:105:A:ILE:HD11	8	0.13
(1,2769)	1:84:A:TYR:H	1:105:A:ILE:HD12	8	0.13
(1,2769)	1:84:A:TYR:H	1:105:A:ILE:HD13	8	0.13
(1,2589)	1:95:A:ASN:HB3	1:100:A:SER:H	4	0.13
(1,2529)	1:105:A:ILE:HG13	1:105:A:ILE:H	4	0.13
(1,2461)	1:84:A:TYR:HE1	1:113:A:ARG:H	6	0.13
(1,2461)	1:84:A:TYR:HE2	1:113:A:ARG:H	6	0.13
(1,2454)	1:113:A:ARG:HD2	1:114:A:ARG:H	3	0.13
(1,2448)	1:115:A:VAL:H	1:103:A:ILE:HG13	2	0.13
(1,2368)	1:119:A:GLN:HA	1:121:A:GLU:H	4	0.13
(1,2368)	1:119:A:GLN:HA	1:121:A:GLU:H	7	0.13
(1,2335)	1:68:A:THR:HB	1:125:A:LYS:H	7	0.13
(1,2328)	1:126:A:LEU:H	1:125:A:LYS:H	3	0.13
(1,2328)	1:126:A:LEU:H	1:125:A:LYS:H	10	0.13
(1,2298)	1:14:A:TRP:H	1:13:A:TYR:HB3	4	0.13
(1,2258)	1:23:A:ILE:HD11	1:32:A:TYR:HA	1	0.13
(1,2258)	1:23:A:ILE:HD12	1:32:A:TYR:HA	1	0.13
(1,2258)	1:23:A:ILE:HD13	1:32:A:TYR:HA	1	0.13
(1,2240)	1:79:A:VAL:HG11	1:123:A:ILE:HG21	5	0.13
(1,2240)	1:79:A:VAL:HG11	1:123:A:ILE:HG22	5	0.13
(1,2240)	1:79:A:VAL:HG11	1:123:A:ILE:HG23	5	0.13
(1,2240)	1:79:A:VAL:HG12	1:123:A:ILE:HG21	5	0.13
(1,2240)	1:79:A:VAL:HG12	1:123:A:ILE:HG22	5	0.13
(1,2240)	1:79:A:VAL:HG12	1:123:A:ILE:HG23	5	0.13
(1,2240)	1:79:A:VAL:HG13	1:123:A:ILE:HG21	5	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2240)	1:79:A:VAL:HG13	1:123:A:ILE:HG22	5	0.13
(1,2240)	1:79:A:VAL:HG13	1:123:A:ILE:HG23	5	0.13
(1,2215)	1:103:A:ILE:HA	1:103:A:ILE:HD11	1	0.13
(1,2215)	1:103:A:ILE:HA	1:103:A:ILE:HD12	1	0.13
(1,2215)	1:103:A:ILE:HA	1:103:A:ILE:HD13	1	0.13
(1,2215)	1:103:A:ILE:HA	1:103:A:ILE:HD11	2	0.13
(1,2215)	1:103:A:ILE:HA	1:103:A:ILE:HD12	2	0.13
(1,2215)	1:103:A:ILE:HA	1:103:A:ILE:HD13	2	0.13
(1,2215)	1:103:A:ILE:HA	1:103:A:ILE:HD11	5	0.13
(1,2215)	1:103:A:ILE:HA	1:103:A:ILE:HD12	5	0.13
(1,2215)	1:103:A:ILE:HA	1:103:A:ILE:HD13	5	0.13
(1,2215)	1:103:A:ILE:HA	1:103:A:ILE:HD11	6	0.13
(1,2215)	1:103:A:ILE:HA	1:103:A:ILE:HD12	6	0.13
(1,2215)	1:103:A:ILE:HA	1:103:A:ILE:HD13	6	0.13
(1,2215)	1:103:A:ILE:HA	1:103:A:ILE:HD11	10	0.13
(1,2215)	1:103:A:ILE:HA	1:103:A:ILE:HD12	10	0.13
(1,2215)	1:103:A:ILE:HA	1:103:A:ILE:HD13	10	0.13
(1,2197)	1:106:A:GLU:HB2	1:105:A:ILE:HA	8	0.13
(1,2034)	1:98:A:THR:HG21	1:95:A:ASN:HB3	3	0.13
(1,2034)	1:98:A:THR:HG22	1:95:A:ASN:HB3	3	0.13
(1,2034)	1:98:A:THR:HG23	1:95:A:ASN:HB3	3	0.13
(1,1966)	1:118:A:ILE:HG21	1:122:A:ASP:H	7	0.13
(1,1966)	1:118:A:ILE:HG22	1:122:A:ASP:H	7	0.13
(1,1966)	1:118:A:ILE:HG23	1:122:A:ASP:H	7	0.13
(1,1965)	1:118:A:ILE:HG12	1:118:A:ILE:H	6	0.13
(1,1960)	1:118:A:ILE:HG13	1:118:A:ILE:H	1	0.13
(1,1924)	1:113:A:ARG:HB3	1:115:A:VAL:HG11	10	0.13
(1,1924)	1:113:A:ARG:HB3	1:115:A:VAL:HG12	10	0.13
(1,1924)	1:113:A:ARG:HB3	1:115:A:VAL:HG13	10	0.13
(1,1870)	1:113:A:ARG:HA	1:113:A:ARG:HD2	4	0.13
(1,1785)	1:107:A:THR:HB	1:107:A:THR:HA	1	0.13
(1,1777)	1:106:A:GLU:HB3	1:106:A:GLU:H	9	0.13
(1,1716)	1:103:A:ILE:HG21	1:102:A:THR:HA	5	0.13
(1,1716)	1:103:A:ILE:HG22	1:102:A:THR:HA	5	0.13
(1,1716)	1:103:A:ILE:HG23	1:102:A:THR:HA	5	0.13
(1,1702)	1:84:A:TYR:HB2	1:103:A:ILE:HD11	5	0.13
(1,1702)	1:84:A:TYR:HB2	1:103:A:ILE:HD12	5	0.13
(1,1702)	1:84:A:TYR:HB2	1:103:A:ILE:HD13	5	0.13
(1,1638)	1:118:A:ILE:H	1:100:A:SER:HB2	7	0.13
(1,1635)	1:100:A:SER:HA	1:100:A:SER:HB2	9	0.13
(1,1635)	1:100:A:SER:HA	1:100:A:SER:HB2	10	0.13
(1,1611)	1:98:A:THR:HA	1:98:A:THR:HB	7	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1607)	1:97:A:LYS:HB3	1:97:A:LYS:HA	1	0.13
(1,1585)	1:94:A:ILE:HG21	1:101:A:ALA:HA	10	0.13
(1,1585)	1:94:A:ILE:HG22	1:101:A:ALA:HA	10	0.13
(1,1585)	1:94:A:ILE:HG23	1:101:A:ALA:HA	10	0.13
(1,1552)	1:93:A:SER:HA	1:94:A:ILE:H	10	0.13
(1,1537)	1:97:A:LYS:HB3	1:98:A:THR:H	9	0.13
(1,1519)	1:73:A:PRO:HA	1:91:A:LEU:HD11	3	0.13
(1,1519)	1:73:A:PRO:HA	1:91:A:LEU:HD12	3	0.13
(1,1519)	1:73:A:PRO:HA	1:91:A:LEU:HD13	3	0.13
(1,1386)	1:81:A:ASN:HA	1:81:A:ASN:HB2	3	0.13
(1,1352)	1:90:A:THR:HG21	1:74:A:GLY:HA2	9	0.13
(1,1352)	1:90:A:THR:HG22	1:74:A:GLY:HA2	9	0.13
(1,1352)	1:90:A:THR:HG23	1:74:A:GLY:HA2	9	0.13
(1,1351)	1:48:A:ALA:HB1	1:42:A:VAL:HA	3	0.13
(1,1351)	1:48:A:ALA:HB2	1:42:A:VAL:HA	3	0.13
(1,1351)	1:48:A:ALA:HB3	1:42:A:VAL:HA	3	0.13
(1,1351)	1:48:A:ALA:HB1	1:42:A:VAL:HA	4	0.13
(1,1351)	1:48:A:ALA:HB2	1:42:A:VAL:HA	4	0.13
(1,1351)	1:48:A:ALA:HB3	1:42:A:VAL:HA	4	0.13
(1,1315)	1:31:A:LYS:HG2	1:31:A:LYS:H	5	0.13
(1,1303)	1:78:A:LEU:H	1:77:A:ILE:HD11	3	0.13
(1,1303)	1:78:A:LEU:H	1:77:A:ILE:HD12	3	0.13
(1,1303)	1:78:A:LEU:H	1:77:A:ILE:HD13	3	0.13
(1,1301)	1:125:A:LYS:HA	1:77:A:ILE:HB	3	0.13
(1,1223)	1:73:A:PRO:HA	1:91:A:LEU:HG	3	0.13
(1,1209)	1:73:A:PRO:HD2	1:72:A:ALA:HA	2	0.13
(1,1209)	1:73:A:PRO:HD2	1:72:A:ALA:HA	5	0.13
(1,1209)	1:73:A:PRO:HD2	1:72:A:ALA:HA	10	0.13
(1,1200)	1:71:A:PRO:HD3	1:70:A:ILE:HG21	8	0.13
(1,1200)	1:71:A:PRO:HD3	1:70:A:ILE:HG22	8	0.13
(1,1200)	1:71:A:PRO:HD3	1:70:A:ILE:HG23	8	0.13
(1,1108)	1:24:A:ILE:HD11	1:67:A:GLU:HB3	10	0.13
(1,1108)	1:24:A:ILE:HD12	1:67:A:GLU:HB3	10	0.13
(1,1108)	1:24:A:ILE:HD13	1:67:A:GLU:HB3	10	0.13
(1,1021)	1:15:A:LEU:HD11	1:63:A:GLN:HB2	2	0.13
(1,1021)	1:15:A:LEU:HD12	1:63:A:GLN:HB2	2	0.13
(1,1021)	1:15:A:LEU:HD13	1:63:A:GLN:HB2	2	0.13
(1,970)	1:61:A:LEU:HB2	1:62:A:ASP:H	3	0.13
(1,964)	1:60:A:LYS:HE2	1:60:A:LYS:HA	1	0.13
(1,951)	1:60:A:LYS:HA	1:50:A:VAL:H	1	0.13
(1,888)	1:54:A:ASP:HB2	1:53:A:ILE:HB	6	0.13
(1,842)	1:53:A:ILE:HA	1:53:A:ILE:HG13	9	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,797)	1:50:A:VAL:HB	1:50:A:VAL:H	4	0.13
(1,797)	1:50:A:VAL:HB	1:50:A:VAL:H	6	0.13
(1,797)	1:50:A:VAL:HB	1:50:A:VAL:H	9	0.13
(1,788)	1:49:A:VAL:HG21	1:48:A:ALA:HA	5	0.13
(1,788)	1:49:A:VAL:HG22	1:48:A:ALA:HA	5	0.13
(1,788)	1:49:A:VAL:HG23	1:48:A:ALA:HA	5	0.13
(1,787)	1:49:A:VAL:HG11	1:58:A:LYS:HG2	5	0.13
(1,787)	1:49:A:VAL:HG12	1:58:A:LYS:HG2	5	0.13
(1,787)	1:49:A:VAL:HG13	1:58:A:LYS:HG2	5	0.13
(1,763)	1:47:A:THR:HB	1:43:A:ILE:HG21	5	0.13
(1,763)	1:47:A:THR:HB	1:43:A:ILE:HG22	5	0.13
(1,763)	1:47:A:THR:HB	1:43:A:ILE:HG23	5	0.13
(1,659)	1:45:A:LYS:H	1:42:A:VAL:HG21	6	0.13
(1,659)	1:45:A:LYS:H	1:42:A:VAL:HG22	6	0.13
(1,659)	1:45:A:LYS:H	1:42:A:VAL:HG23	6	0.13
(1,632)	1:41:A:GLU:HB3	1:41:A:GLU:HG2	5	0.13
(1,602)	1:40:A:LYS:HE3	1:38:A:ILE:HG21	10	0.13
(1,602)	1:40:A:LYS:HE3	1:38:A:ILE:HG22	10	0.13
(1,602)	1:40:A:LYS:HE3	1:38:A:ILE:HG23	10	0.13
(1,585)	1:127:A:ALA:HA	1:38:A:ILE:HD11	9	0.13
(1,585)	1:127:A:ALA:HA	1:38:A:ILE:HD12	9	0.13
(1,585)	1:127:A:ALA:HA	1:38:A:ILE:HD13	9	0.13
(1,574)	1:39:A:VAL:HG11	1:40:A:LYS:H	4	0.13
(1,574)	1:39:A:VAL:HG12	1:40:A:LYS:H	4	0.13
(1,574)	1:39:A:VAL:HG13	1:40:A:LYS:H	4	0.13
(1,530)	1:37:A:ALA:HB1	1:38:A:ILE:H	9	0.13
(1,530)	1:37:A:ALA:HB2	1:38:A:ILE:H	9	0.13
(1,530)	1:37:A:ALA:HB3	1:38:A:ILE:H	9	0.13
(1,530)	1:37:A:ALA:HB1	1:38:A:ILE:H	10	0.13
(1,530)	1:37:A:ALA:HB2	1:38:A:ILE:H	10	0.13
(1,530)	1:37:A:ALA:HB3	1:38:A:ILE:H	10	0.13
(1,479)	1:31:A:LYS:HA	1:32:A:TYR:H	2	0.13
(1,479)	1:31:A:LYS:HA	1:32:A:TYR:H	10	0.13
(1,468)	1:30:A:GLU:HB3	1:30:A:GLU:HA	10	0.13
(1,456)	1:61:A:LEU:HD21	1:59:A:LEU:HD11	3	0.13
(1,456)	1:61:A:LEU:HD21	1:59:A:LEU:HD12	3	0.13
(1,456)	1:61:A:LEU:HD21	1:59:A:LEU:HD13	3	0.13
(1,456)	1:61:A:LEU:HD22	1:59:A:LEU:HD11	3	0.13
(1,456)	1:61:A:LEU:HD22	1:59:A:LEU:HD12	3	0.13
(1,456)	1:61:A:LEU:HD22	1:59:A:LEU:HD13	3	0.13
(1,456)	1:61:A:LEU:HD23	1:59:A:LEU:HD11	3	0.13
(1,456)	1:61:A:LEU:HD23	1:59:A:LEU:HD12	3	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,456)	1:61:A:LEU:HD23	1:59:A:LEU:HD13	3	0.13
(1,455)	1:28:A:LEU:HD11	1:28:A:LEU:HB3	9	0.13
(1,455)	1:28:A:LEU:HD12	1:28:A:LEU:HB3	9	0.13
(1,455)	1:28:A:LEU:HD13	1:28:A:LEU:HB3	9	0.13
(1,439)	1:60:A:LYS:HD2	1:60:A:LYS:HA	7	0.13
(1,439)	1:60:A:LYS:HD2	1:60:A:LYS:HA	8	0.13
(1,400)	1:24:A:ILE:HA	1:24:A:ILE:HG21	4	0.13
(1,400)	1:24:A:ILE:HA	1:24:A:ILE:HG22	4	0.13
(1,400)	1:24:A:ILE:HA	1:24:A:ILE:HG23	4	0.13
(1,399)	1:66:A:LEU:HA	1:24:A:ILE:HG21	3	0.13
(1,399)	1:66:A:LEU:HA	1:24:A:ILE:HG22	3	0.13
(1,399)	1:66:A:LEU:HA	1:24:A:ILE:HG23	3	0.13
(1,399)	1:66:A:LEU:HA	1:24:A:ILE:HG21	6	0.13
(1,399)	1:66:A:LEU:HA	1:24:A:ILE:HG22	6	0.13
(1,399)	1:66:A:LEU:HA	1:24:A:ILE:HG23	6	0.13
(1,354)	1:23:A:ILE:HD11	1:32:A:TYR:HD1	10	0.13
(1,354)	1:23:A:ILE:HD11	1:32:A:TYR:HD2	10	0.13
(1,354)	1:23:A:ILE:HD12	1:32:A:TYR:HD1	10	0.13
(1,354)	1:23:A:ILE:HD12	1:32:A:TYR:HD2	10	0.13
(1,354)	1:23:A:ILE:HD13	1:32:A:TYR:HD1	10	0.13
(1,354)	1:23:A:ILE:HD13	1:32:A:TYR:HD2	10	0.13
(1,281)	1:20:A:ILE:HD11	1:20:A:ILE:HB	7	0.13
(1,281)	1:20:A:ILE:HD12	1:20:A:ILE:HB	7	0.13
(1,281)	1:20:A:ILE:HD13	1:20:A:ILE:HB	7	0.13
(1,281)	1:20:A:ILE:HD11	1:20:A:ILE:HB	9	0.13
(1,281)	1:20:A:ILE:HD12	1:20:A:ILE:HB	9	0.13
(1,281)	1:20:A:ILE:HD13	1:20:A:ILE:HB	9	0.13
(1,265)	1:19:A:ILE:HG21	1:18:A:GLU:H	5	0.13
(1,265)	1:19:A:ILE:HG22	1:18:A:GLU:H	5	0.13
(1,265)	1:19:A:ILE:HG23	1:18:A:GLU:H	5	0.13
(1,248)	1:19:A:ILE:HD11	1:14:A:TRP:HZ3	2	0.13
(1,248)	1:19:A:ILE:HD12	1:14:A:TRP:HZ3	2	0.13
(1,248)	1:19:A:ILE:HD13	1:14:A:TRP:HZ3	2	0.13
(1,248)	1:19:A:ILE:HD11	1:14:A:TRP:HZ3	3	0.13
(1,248)	1:19:A:ILE:HD12	1:14:A:TRP:HZ3	3	0.13
(1,248)	1:19:A:ILE:HD13	1:14:A:TRP:HZ3	3	0.13
(1,205)	1:17:A:PRO:HA	1:17:A:PRO:HG2	6	0.13
(1,148)	1:15:A:LEU:HD11	1:14:A:TRP:HZ2	7	0.13
(1,148)	1:15:A:LEU:HD12	1:14:A:TRP:HZ2	7	0.13
(1,148)	1:15:A:LEU:HD13	1:14:A:TRP:HZ2	7	0.13
(1,102)	1:14:A:TRP:HB3	1:14:A:TRP:HE3	2	0.13
(1,102)	1:14:A:TRP:HB3	1:14:A:TRP:HE3	3	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,102)	1:14:A:TRP:HB3	1:14:A:TRP:HE3	4	0.13
(1,102)	1:14:A:TRP:HB3	1:14:A:TRP:HE3	5	0.13
(1,102)	1:14:A:TRP:HB3	1:14:A:TRP:HE3	7	0.13
(3,1184)	1:55:A:SER:HB3	1:57:A:ASP:HB2	9	0.12
(3,1167)	1:115:A:VAL:HG23	1:115:A:VAL:HB	1	0.12
(3,1146)	1:115:A:VAL:HA	1:103:A:ILE:H	7	0.12
(3,1091)	1:112:A:GLY:H	1:105:A:ILE:H	9	0.12
(3,1057)	1:8:A:THR:HA	1:8:A:THR:HG21	8	0.12
(3,1033)	1:79:A:VAL:H	1:123:A:ILE:HG23	10	0.12
(3,1017)	1:23:A:ILE:H	1:22:A:LYS:HG2	3	0.12
(3,933)	1:123:A:ILE:HD11	1:100:A:SER:HB2	10	0.12
(3,844)	1:106:A:GLU:H	1:106:A:GLU:HA	2	0.12
(3,844)	1:106:A:GLU:H	1:106:A:GLU:HA	3	0.12
(3,844)	1:106:A:GLU:H	1:106:A:GLU:HA	4	0.12
(3,844)	1:106:A:GLU:H	1:106:A:GLU:HA	7	0.12
(3,838)	1:52:A:MET:H	1:59:A:LEU:H	9	0.12
(3,820)	1:93:A:SER:H	1:92:A:GLU:HG2	8	0.12
(3,817)	1:84:A:TYR:HA	1:85:A:ARG:H	8	0.12
(3,817)	1:84:A:TYR:HA	1:85:A:ARG:H	10	0.12
(3,775)	1:126:A:LEU:H	1:125:A:LYS:HE2	1	0.12
(3,756)	1:103:A:ILE:HG13	1:103:A:ILE:HA	1	0.12
(3,756)	1:103:A:ILE:HG13	1:103:A:ILE:HA	2	0.12
(3,756)	1:103:A:ILE:HG13	1:103:A:ILE:HA	3	0.12
(3,756)	1:103:A:ILE:HG13	1:103:A:ILE:HA	4	0.12
(3,756)	1:103:A:ILE:HG13	1:103:A:ILE:HA	5	0.12
(3,756)	1:103:A:ILE:HG13	1:103:A:ILE:HA	6	0.12
(3,756)	1:103:A:ILE:HG13	1:103:A:ILE:HA	7	0.12
(3,756)	1:103:A:ILE:HG13	1:103:A:ILE:HA	8	0.12
(3,756)	1:103:A:ILE:HG13	1:103:A:ILE:HA	10	0.12
(3,743)	1:37:A:ALA:HB1	1:50:A:VAL:HA	9	0.12
(3,729)	1:26:A:LYS:HE2	1:26:A:LYS:HD3	3	0.12
(3,729)	1:26:A:LYS:HD2	1:26:A:LYS:HE3	5	0.12
(3,706)	1:16:A:GLN:H	1:15:A:LEU:HB3	4	0.12
(3,583)	1:125:A:LYS:HE2	1:20:A:ILE:HD12	3	0.12
(3,516)	1:118:A:ILE:HG13	1:117:A:GLY:HA2	9	0.12
(3,485)	1:127:A:ALA:H	1:126:A:LEU:HB3	5	0.12
(3,481)	1:93:A:SER:H	1:93:A:SER:HB3	1	0.12
(3,475)	1:26:A:LYS:HE3	1:30:A:GLU:HA	10	0.12
(3,450)	1:103:A:ILE:HG21	1:102:A:THR:HA	2	0.12
(3,450)	1:103:A:ILE:HG21	1:102:A:THR:HA	8	0.12
(3,426)	1:119:A:GLN:HA	1:100:A:SER:H	3	0.12
(3,403)	1:113:A:ARG:HB2	1:105:A:ILE:H	2	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,379)	1:45:A:LYS:HA	1:13:A:TYR:HD2	2	0.12
(3,332)	1:43:A:ILE:HG22	1:43:A:ILE:HG13	6	0.12
(3,332)	1:43:A:ILE:HG23	1:43:A:ILE:HG13	10	0.12
(3,310)	1:111:A:LYS:HD3	1:111:A:LYS:HG2	1	0.12
(3,310)	1:111:A:LYS:HD3	1:111:A:LYS:HG2	7	0.12
(3,310)	1:111:A:LYS:HD2	1:111:A:LYS:HG3	8	0.12
(3,296)	1:91:A:LEU:HD23	1:101:A:ALA:HB3	9	0.12
(3,257)	1:53:A:ILE:H	1:53:A:ILE:HD13	7	0.12
(3,224)	1:103:A:ILE:HG22	1:101:A:ALA:H	6	0.12
(3,224)	1:103:A:ILE:HG21	1:101:A:ALA:H	10	0.12
(3,211)	1:118:A:ILE:H	1:116:A:GLU:HB3	2	0.12
(3,173)	1:39:A:VAL:HG13	1:17:A:PRO:HG3	9	0.12
(3,129)	1:77:A:ILE:HD11	1:123:A:ILE:HB	2	0.12
(3,129)	1:77:A:ILE:HD13	1:123:A:ILE:HB	7	0.12
(2,593)	1:66:A:LEU:HB3	1:14:A:TRP:HE1	8	0.12
(2,407)	1:42:A:VAL:HG11	1:44:A:ASP:HA	4	0.12
(2,407)	1:42:A:VAL:HG12	1:44:A:ASP:HA	4	0.12
(2,407)	1:42:A:VAL:HG13	1:44:A:ASP:HA	4	0.12
(2,393)	1:73:A:PRO:HG2	1:70:A:ILE:HG21	4	0.12
(2,393)	1:73:A:PRO:HG2	1:70:A:ILE:HG22	4	0.12
(2,393)	1:73:A:PRO:HG2	1:70:A:ILE:HG23	4	0.12
(2,12)	1:9:A:ALA:HA	1:10:A:ARG:HD2	7	0.12
(1,3775)	1:13:A:TYR:HB2	1:46:A:TYR:HD1	9	0.12
(1,3775)	1:13:A:TYR:HB2	1:46:A:TYR:HD2	9	0.12
(1,3712)	1:87:A:ASN:HD21	1:84:A:TYR:H	4	0.12
(1,3712)	1:87:A:ASN:HD21	1:84:A:TYR:H	5	0.12
(1,3631)	1:23:A:ILE:H	1:32:A:TYR:HB3	9	0.12
(1,3615)	1:119:A:GLN:HE21	1:100:A:SER:HB2	9	0.12
(1,3544)	1:66:A:LEU:HD11	1:65:A:HIS:H	9	0.12
(1,3544)	1:66:A:LEU:HD12	1:65:A:HIS:H	9	0.12
(1,3544)	1:66:A:LEU:HD13	1:65:A:HIS:H	9	0.12
(1,3456)	1:16:A:GLN:HG3	1:16:A:GLN:HE22	2	0.12
(1,3456)	1:16:A:GLN:HG3	1:16:A:GLN:HE22	3	0.12
(1,3456)	1:16:A:GLN:HG3	1:16:A:GLN:HE22	5	0.12
(1,3456)	1:16:A:GLN:HG3	1:16:A:GLN:HE22	6	0.12
(1,3456)	1:16:A:GLN:HG3	1:16:A:GLN:HE22	7	0.12
(1,3456)	1:16:A:GLN:HG3	1:16:A:GLN:HE22	10	0.12
(1,3415)	1:7:A:ARG:HG3	1:7:A:ARG:H	9	0.12
(1,3380)	1:14:A:TRP:H	1:13:A:TYR:HB3	4	0.12
(1,3308)	1:23:A:ILE:H	1:23:A:ILE:HG12	2	0.12
(1,3308)	1:23:A:ILE:H	1:23:A:ILE:HG12	6	0.12
(1,3213)	1:36:A:LYS:H	1:35:A:LYS:H	2	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3213)	1:36:A:LYS:H	1:35:A:LYS:H	3	0.12
(1,3183)	1:17:A:PRO:HA	1:39:A:VAL:H	7	0.12
(1,3134)	1:44:A:ASP:H	1:43:A:ILE:HG13	7	0.12
(1,3040)	1:54:A:ASP:H	1:53:A:ILE:HG21	1	0.12
(1,3040)	1:54:A:ASP:H	1:53:A:ILE:HG22	1	0.12
(1,3040)	1:54:A:ASP:H	1:53:A:ILE:HG23	1	0.12
(1,3028)	1:51:A:LYS:HG2	1:56:A:GLY:H	2	0.12
(1,3027)	1:10:A:ARG:HB2	1:81:A:ASN:HD21	10	0.12
(1,3000)	1:59:A:LEU:HD11	1:60:A:LYS:H	5	0.12
(1,3000)	1:59:A:LEU:HD12	1:60:A:LYS:H	5	0.12
(1,3000)	1:59:A:LEU:HD13	1:60:A:LYS:H	5	0.12
(1,3000)	1:59:A:LEU:HD11	1:60:A:LYS:H	8	0.12
(1,3000)	1:59:A:LEU:HD12	1:60:A:LYS:H	8	0.12
(1,3000)	1:59:A:LEU:HD13	1:60:A:LYS:H	8	0.12
(1,2967)	1:46:A:TYR:HB2	1:63:A:GLN:H	6	0.12
(1,2958)	1:64:A:THR:H	1:63:A:GLN:HB2	6	0.12
(1,2880)	1:75:A:LYS:HB3	1:72:A:ALA:H	7	0.12
(1,2816)	1:85:A:ARG:HA	1:79:A:VAL:H	2	0.12
(1,2816)	1:85:A:ARG:HA	1:79:A:VAL:H	5	0.12
(1,2802)	1:81:A:ASN:HB3	1:80:A:LEU:H	8	0.12
(1,2769)	1:84:A:TYR:H	1:105:A:ILE:HD11	4	0.12
(1,2769)	1:84:A:TYR:H	1:105:A:ILE:HD12	4	0.12
(1,2769)	1:84:A:TYR:H	1:105:A:ILE:HD13	4	0.12
(1,2750)	1:79:A:VAL:HG21	1:86:A:GLY:H	4	0.12
(1,2750)	1:79:A:VAL:HG22	1:86:A:GLY:H	4	0.12
(1,2750)	1:79:A:VAL:HG23	1:86:A:GLY:H	4	0.12
(1,2736)	1:79:A:VAL:HG21	1:87:A:ASN:H	7	0.12
(1,2736)	1:79:A:VAL:HG22	1:87:A:ASN:H	7	0.12
(1,2736)	1:79:A:VAL:HG23	1:87:A:ASN:H	7	0.12
(1,2658)	1:91:A:LEU:HD11	1:94:A:ILE:H	2	0.12
(1,2658)	1:91:A:LEU:HD12	1:94:A:ILE:H	2	0.12
(1,2658)	1:91:A:LEU:HD13	1:94:A:ILE:H	2	0.12
(1,2658)	1:91:A:LEU:HD11	1:94:A:ILE:H	8	0.12
(1,2658)	1:91:A:LEU:HD12	1:94:A:ILE:H	8	0.12
(1,2658)	1:91:A:LEU:HD13	1:94:A:ILE:H	8	0.12
(1,2634)	1:96:A:GLU:HG3	1:96:A:GLU:H	3	0.12
(1,2634)	1:96:A:GLU:HG3	1:96:A:GLU:H	8	0.12
(1,2633)	1:96:A:GLU:H	1:95:A:ASN:HB3	3	0.12
(1,2607)	1:97:A:LYS:HG2	1:98:A:THR:H	3	0.12
(1,2592)	1:97:A:LYS:HB3	1:100:A:SER:H	7	0.12
(1,2592)	1:97:A:LYS:HB3	1:100:A:SER:H	9	0.12
(1,2588)	1:100:A:SER:H	1:100:A:SER:HB3	10	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2467)	1:113:A:ARG:H	1:105:A:ILE:HG13	5	0.12
(1,2460)	1:113:A:ARG:H	1:111:A:LYS:H	3	0.12
(1,2448)	1:115:A:VAL:H	1:103:A:ILE:HG13	7	0.12
(1,2437)	1:118:A:ILE:HG13	1:116:A:GLU:H	6	0.12
(1,2397)	1:122:A:ASP:HA	1:119:A:GLN:H	4	0.12
(1,2328)	1:126:A:LEU:H	1:125:A:LYS:H	1	0.12
(1,2218)	1:102:A:THR:HB	1:103:A:ILE:H	8	0.12
(1,2218)	1:102:A:THR:HB	1:103:A:ILE:H	10	0.12
(1,2215)	1:103:A:ILE:HA	1:103:A:ILE:HD11	3	0.12
(1,2215)	1:103:A:ILE:HA	1:103:A:ILE:HD12	3	0.12
(1,2215)	1:103:A:ILE:HA	1:103:A:ILE:HD13	3	0.12
(1,2215)	1:103:A:ILE:HA	1:103:A:ILE:HD11	7	0.12
(1,2215)	1:103:A:ILE:HA	1:103:A:ILE:HD12	7	0.12
(1,2215)	1:103:A:ILE:HA	1:103:A:ILE:HD13	7	0.12
(1,2211)	1:84:A:TYR:HE1	1:103:A:ILE:HD11	6	0.12
(1,2211)	1:84:A:TYR:HE1	1:103:A:ILE:HD12	6	0.12
(1,2211)	1:84:A:TYR:HE1	1:103:A:ILE:HD13	6	0.12
(1,2211)	1:84:A:TYR:HE2	1:103:A:ILE:HD11	6	0.12
(1,2211)	1:84:A:TYR:HE2	1:103:A:ILE:HD12	6	0.12
(1,2211)	1:84:A:TYR:HE2	1:103:A:ILE:HD13	6	0.12
(1,2207)	1:103:A:ILE:HG21	1:118:A:ILE:HB	3	0.12
(1,2207)	1:103:A:ILE:HG22	1:118:A:ILE:HB	3	0.12
(1,2207)	1:103:A:ILE:HG23	1:118:A:ILE:HB	3	0.12
(1,2193)	1:107:A:THR:HG21	1:87:A:ASN:HA	6	0.12
(1,2193)	1:107:A:THR:HG22	1:87:A:ASN:HA	6	0.12
(1,2193)	1:107:A:THR:HG23	1:87:A:ASN:HA	6	0.12
(1,2155)	1:118:A:ILE:HA	1:101:A:ALA:H	5	0.12
(1,2155)	1:118:A:ILE:HA	1:101:A:ALA:H	6	0.12
(1,1995)	1:68:A:THR:HG21	1:121:A:GLU:HA	9	0.12
(1,1995)	1:68:A:THR:HG22	1:121:A:GLU:HA	9	0.12
(1,1995)	1:68:A:THR:HG23	1:121:A:GLU:HA	9	0.12
(1,1946)	1:117:A:GLY:HA3	1:116:A:GLU:HB3	1	0.12
(1,1936)	1:116:A:GLU:H	1:116:A:GLU:HG2	1	0.12
(1,1888)	1:76:A:ARG:HD2	1:90:A:THR:HG21	9	0.12
(1,1888)	1:76:A:ARG:HD2	1:90:A:THR:HG22	9	0.12
(1,1888)	1:76:A:ARG:HD2	1:90:A:THR:HG23	9	0.12
(1,1829)	1:110:A:LEU:HA	1:111:A:LYS:H	2	0.12
(1,1829)	1:110:A:LEU:HA	1:111:A:LYS:H	9	0.12
(1,1785)	1:107:A:THR:HB	1:107:A:THR:HA	2	0.12
(1,1777)	1:106:A:GLU:HB3	1:106:A:GLU:H	2	0.12
(1,1716)	1:103:A:ILE:HG21	1:102:A:THR:HA	2	0.12
(1,1716)	1:103:A:ILE:HG22	1:102:A:THR:HA	2	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1716)	1:103:A:ILE:HG23	1:102:A:THR:HA	2	0.12
(1,1716)	1:103:A:ILE:HG21	1:102:A:THR:HA	8	0.12
(1,1716)	1:103:A:ILE:HG22	1:102:A:THR:HA	8	0.12
(1,1716)	1:103:A:ILE:HG23	1:102:A:THR:HA	8	0.12
(1,1714)	1:103:A:ILE:HG21	1:123:A:ILE:HG21	9	0.12
(1,1714)	1:103:A:ILE:HG21	1:123:A:ILE:HG22	9	0.12
(1,1714)	1:103:A:ILE:HG21	1:123:A:ILE:HG23	9	0.12
(1,1714)	1:103:A:ILE:HG22	1:123:A:ILE:HG21	9	0.12
(1,1714)	1:103:A:ILE:HG22	1:123:A:ILE:HG22	9	0.12
(1,1714)	1:103:A:ILE:HG22	1:123:A:ILE:HG23	9	0.12
(1,1714)	1:103:A:ILE:HG23	1:123:A:ILE:HG21	9	0.12
(1,1714)	1:103:A:ILE:HG23	1:123:A:ILE:HG22	9	0.12
(1,1714)	1:103:A:ILE:HG23	1:123:A:ILE:HG23	9	0.12
(1,1678)	1:102:A:THR:HG21	1:103:A:ILE:HA	7	0.12
(1,1678)	1:102:A:THR:HG22	1:103:A:ILE:HA	7	0.12
(1,1678)	1:102:A:THR:HG23	1:103:A:ILE:HA	7	0.12
(1,1655)	1:94:A:ILE:HG21	1:101:A:ALA:HA	5	0.12
(1,1655)	1:94:A:ILE:HG22	1:101:A:ALA:HA	5	0.12
(1,1655)	1:94:A:ILE:HG23	1:101:A:ALA:HA	5	0.12
(1,1647)	1:100:A:SER:H	1:100:A:SER:HB3	6	0.12
(1,1641)	1:117:A:GLY:HA3	1:100:A:SER:HB2	6	0.12
(1,1635)	1:100:A:SER:HA	1:100:A:SER:HB2	2	0.12
(1,1616)	1:98:A:THR:HG21	1:98:A:THR:H	5	0.12
(1,1616)	1:98:A:THR:HG22	1:98:A:THR:H	5	0.12
(1,1616)	1:98:A:THR:HG23	1:98:A:THR:H	5	0.12
(1,1611)	1:98:A:THR:HA	1:98:A:THR:HB	10	0.12
(1,1535)	1:93:A:SER:HA	1:91:A:LEU:HG	3	0.12
(1,1492)	1:104:A:VAL:H	1:90:A:THR:HB	9	0.12
(1,1441)	1:85:A:ARG:HB3	1:86:A:GLY:H	4	0.12
(1,1426)	1:85:A:ARG:HA	1:87:A:ASN:H	7	0.12
(1,1313)	1:77:A:ILE:H	1:77:A:ILE:HG12	10	0.12
(1,1144)	1:68:A:THR:HA	1:69:A:VAL:HG11	7	0.12
(1,1144)	1:68:A:THR:HA	1:69:A:VAL:HG12	7	0.12
(1,1144)	1:68:A:THR:HA	1:69:A:VAL:HG13	7	0.12
(1,1070)	1:22:A:LYS:H	1:66:A:LEU:HA	5	0.12
(1,1070)	1:22:A:LYS:H	1:66:A:LEU:HA	9	0.12
(1,1051)	1:63:A:GLN:HG2	1:64:A:THR:HG21	10	0.12
(1,1051)	1:63:A:GLN:HG2	1:64:A:THR:HG22	10	0.12
(1,1051)	1:63:A:GLN:HG2	1:64:A:THR:HG23	10	0.12
(1,964)	1:60:A:LYS:HE2	1:60:A:LYS:HA	10	0.12
(1,877)	1:60:A:LYS:HD2	1:60:A:LYS:HA	3	0.12
(1,877)	1:60:A:LYS:HD2	1:60:A:LYS:HA	4	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,877)	1:60:A:LYS:HD2	1:60:A:LYS:HA	10	0.12
(1,869)	1:94:A:ILE:HD11	1:120:A:TYR:HE1	5	0.12
(1,869)	1:94:A:ILE:HD11	1:120:A:TYR:HE2	5	0.12
(1,869)	1:94:A:ILE:HD12	1:120:A:TYR:HE1	5	0.12
(1,869)	1:94:A:ILE:HD12	1:120:A:TYR:HE2	5	0.12
(1,869)	1:94:A:ILE:HD13	1:120:A:TYR:HE1	5	0.12
(1,869)	1:94:A:ILE:HD13	1:120:A:TYR:HE2	5	0.12
(1,862)	1:53:A:ILE:HB	1:53:A:ILE:HD11	5	0.12
(1,862)	1:53:A:ILE:HB	1:53:A:ILE:HD12	5	0.12
(1,862)	1:53:A:ILE:HB	1:53:A:ILE:HD13	5	0.12
(1,842)	1:53:A:ILE:HA	1:53:A:ILE:HG13	1	0.12
(1,797)	1:50:A:VAL:HB	1:50:A:VAL:H	5	0.12
(1,788)	1:49:A:VAL:HG21	1:48:A:ALA:HA	10	0.12
(1,788)	1:49:A:VAL:HG22	1:48:A:ALA:HA	10	0.12
(1,788)	1:49:A:VAL:HG23	1:48:A:ALA:HA	10	0.12
(1,780)	1:15:A:LEU:HA	1:48:A:ALA:HB1	3	0.12
(1,780)	1:15:A:LEU:HA	1:48:A:ALA:HB2	3	0.12
(1,780)	1:15:A:LEU:HA	1:48:A:ALA:HB3	3	0.12
(1,747)	1:46:A:TYR:HA	1:46:A:TYR:HD1	10	0.12
(1,747)	1:46:A:TYR:HA	1:46:A:TYR:HD2	10	0.12
(1,660)	1:15:A:LEU:H	1:42:A:VAL:HG21	10	0.12
(1,660)	1:15:A:LEU:H	1:42:A:VAL:HG22	10	0.12
(1,660)	1:15:A:LEU:H	1:42:A:VAL:HG23	10	0.12
(1,632)	1:41:A:GLU:HB3	1:41:A:GLU:HG2	1	0.12
(1,632)	1:41:A:GLU:HB3	1:41:A:GLU:HG2	2	0.12
(1,632)	1:41:A:GLU:HB3	1:41:A:GLU:HG2	7	0.12
(1,558)	1:48:A:ALA:HB1	1:39:A:VAL:HB	2	0.12
(1,558)	1:48:A:ALA:HB2	1:39:A:VAL:HB	2	0.12
(1,558)	1:48:A:ALA:HB3	1:39:A:VAL:HB	2	0.12
(1,558)	1:48:A:ALA:HB1	1:39:A:VAL:HB	10	0.12
(1,558)	1:48:A:ALA:HB2	1:39:A:VAL:HB	10	0.12
(1,558)	1:48:A:ALA:HB3	1:39:A:VAL:HB	10	0.12
(1,530)	1:37:A:ALA:HB1	1:38:A:ILE:H	7	0.12
(1,530)	1:37:A:ALA:HB2	1:38:A:ILE:H	7	0.12
(1,530)	1:37:A:ALA:HB3	1:38:A:ILE:H	7	0.12
(1,479)	1:31:A:LYS:HA	1:32:A:TYR:H	1	0.12
(1,478)	1:31:A:LYS:HB3	1:31:A:LYS:HA	1	0.12
(1,478)	1:31:A:LYS:HB3	1:31:A:LYS:HA	8	0.12
(1,439)	1:60:A:LYS:HD2	1:60:A:LYS:HA	6	0.12
(1,401)	1:23:A:ILE:HA	1:24:A:ILE:HG21	5	0.12
(1,401)	1:23:A:ILE:HA	1:24:A:ILE:HG22	5	0.12
(1,401)	1:23:A:ILE:HA	1:24:A:ILE:HG23	5	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,400)	1:24:A:ILE:HA	1:24:A:ILE:HG21	2	0.12
(1,400)	1:24:A:ILE:HA	1:24:A:ILE:HG22	2	0.12
(1,400)	1:24:A:ILE:HA	1:24:A:ILE:HG23	2	0.12
(1,400)	1:24:A:ILE:HA	1:24:A:ILE:HG21	3	0.12
(1,400)	1:24:A:ILE:HA	1:24:A:ILE:HG22	3	0.12
(1,400)	1:24:A:ILE:HA	1:24:A:ILE:HG23	3	0.12
(1,400)	1:24:A:ILE:HA	1:24:A:ILE:HG21	8	0.12
(1,400)	1:24:A:ILE:HA	1:24:A:ILE:HG22	8	0.12
(1,400)	1:24:A:ILE:HA	1:24:A:ILE:HG23	8	0.12
(1,286)	1:20:A:ILE:HD11	1:127:A:ALA:H	4	0.12
(1,286)	1:20:A:ILE:HD12	1:127:A:ALA:H	4	0.12
(1,286)	1:20:A:ILE:HD13	1:127:A:ALA:H	4	0.12
(1,281)	1:20:A:ILE:HD11	1:20:A:ILE:HB	3	0.12
(1,281)	1:20:A:ILE:HD12	1:20:A:ILE:HB	3	0.12
(1,281)	1:20:A:ILE:HD13	1:20:A:ILE:HB	3	0.12
(1,266)	1:127:A:ALA:H	1:19:A:ILE:HG21	7	0.12
(1,266)	1:127:A:ALA:H	1:19:A:ILE:HG22	7	0.12
(1,266)	1:127:A:ALA:H	1:19:A:ILE:HG23	7	0.12
(1,265)	1:19:A:ILE:HG21	1:18:A:GLU:H	1	0.12
(1,265)	1:19:A:ILE:HG22	1:18:A:GLU:H	1	0.12
(1,265)	1:19:A:ILE:HG23	1:18:A:GLU:H	1	0.12
(1,102)	1:14:A:TRP:HB3	1:14:A:TRP:HE3	6	0.12
(1,35)	1:113:A:ARG:HG3	1:114:A:ARG:H	10	0.12
(3,1170)	1:111:A:LYS:HB2	1:112:A:GLY:H	9	0.11
(3,1166)	1:118:A:ILE:HG13	1:103:A:ILE:H	1	0.11
(3,1153)	1:3:A:GLU:HA	1:4:A:GLU:H	9	0.11
(3,1108)	1:53:A:ILE:HB	1:56:A:GLY:H	8	0.11
(3,1061)	1:10:A:ARG:HB2	1:10:A:ARG:HA	2	0.11
(3,1061)	1:10:A:ARG:HB2	1:10:A:ARG:HA	6	0.11
(3,1061)	1:10:A:ARG:HB2	1:10:A:ARG:HA	7	0.11
(3,1061)	1:10:A:ARG:HB2	1:10:A:ARG:HA	10	0.11
(3,1057)	1:8:A:THR:HA	1:8:A:THR:HG22	2	0.11
(3,1053)	1:21:A:VAL:HG23	1:66:A:LEU:HD22	7	0.11
(3,915)	1:76:A:ARG:H	1:76:A:ARG:HB2	7	0.11
(3,915)	1:76:A:ARG:H	1:76:A:ARG:HB2	9	0.11
(3,899)	1:35:A:LYS:HA	1:35:A:LYS:H	6	0.11
(3,890)	1:68:A:THR:HB	1:124:A:SER:H	6	0.11
(3,867)	1:17:A:PRO:HB3	1:18:A:GLU:H	7	0.11
(3,826)	1:5:A:LYS:H	1:5:A:LYS:HA	3	0.11
(3,816)	1:77:A:ILE:H	1:91:A:LEU:H	10	0.11
(3,792)	1:126:A:LEU:HG	1:126:A:LEU:HD21	8	0.11
(3,756)	1:103:A:ILE:HG13	1:103:A:ILE:HA	9	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,729)	1:26:A:LYS:HE2	1:26:A:LYS:HD3	7	0.11
(3,721)	1:51:A:LYS:HG3	1:57:A:ASP:HA	8	0.11
(3,655)	1:26:A:LYS:HG2	1:26:A:LYS:HD3	2	0.11
(3,552)	1:32:A:TYR:HE1	1:57:A:ASP:HB3	7	0.11
(3,534)	1:82:A:GLY:H	1:81:A:ASN:H	1	0.11
(3,534)	1:82:A:GLY:H	1:81:A:ASN:H	3	0.11
(3,534)	1:82:A:GLY:H	1:81:A:ASN:H	4	0.11
(3,489)	1:51:A:LYS:HE3	1:56:A:GLY:HA3	6	0.11
(3,399)	1:45:A:LYS:HG3	1:44:A:ASP:HA	9	0.11
(3,353)	1:61:A:LEU:HD23	1:61:A:LEU:HB3	7	0.11
(3,280)	1:112:A:GLY:H	1:111:A:LYS:HG3	1	0.11
(3,167)	1:118:A:ILE:HG23	1:122:A:ASP:H	1	0.11
(3,129)	1:77:A:ILE:HD12	1:123:A:ILE:HB	1	0.11
(3,128)	1:77:A:ILE:HD13	1:123:A:ILE:HG21	6	0.11
(3,72)	1:20:A:ILE:HG22	1:20:A:ILE:HG12	4	0.11
(3,66)	1:40:A:LYS:HA	1:40:A:LYS:HB3	1	0.11
(3,29)	1:108:A:GLY:H	1:108:A:GLY:HA3	2	0.11
(3,29)	1:108:A:GLY:H	1:108:A:GLY:HA3	8	0.11
(2,626)	1:48:A:ALA:H	1:60:A:LYS:HE3	6	0.11
(2,531)	1:69:A:VAL:H	1:71:A:PRO:HD2	4	0.11
(2,531)	1:69:A:VAL:H	1:71:A:PRO:HD2	5	0.11
(1,3867)	1:100:A:SER:H	1:120:A:TYR:HE1	9	0.11
(1,3867)	1:100:A:SER:H	1:120:A:TYR:HE2	9	0.11
(1,3752)	1:34:A:LYS:HG2	1:33:A:HIS:HE1	8	0.11
(1,3705)	1:75:A:LYS:H	1:91:A:LEU:HA	7	0.11
(1,3633)	1:103:A:ILE:H	1:116:A:GLU:HG2	2	0.11
(1,3544)	1:66:A:LEU:HD11	1:65:A:HIS:H	5	0.11
(1,3544)	1:66:A:LEU:HD12	1:65:A:HIS:H	5	0.11
(1,3544)	1:66:A:LEU:HD13	1:65:A:HIS:H	5	0.11
(1,3544)	1:66:A:LEU:HD11	1:65:A:HIS:H	7	0.11
(1,3544)	1:66:A:LEU:HD12	1:65:A:HIS:H	7	0.11
(1,3544)	1:66:A:LEU:HD13	1:65:A:HIS:H	7	0.11
(1,3456)	1:16:A:GLN:HG3	1:16:A:GLN:HE22	1	0.11
(1,3456)	1:16:A:GLN:HG3	1:16:A:GLN:HE22	4	0.11
(1,3456)	1:16:A:GLN:HG3	1:16:A:GLN:HE22	9	0.11
(1,3445)	1:64:A:THR:HG21	1:14:A:TRP:HE1	6	0.11
(1,3445)	1:64:A:THR:HG22	1:14:A:TRP:HE1	6	0.11
(1,3445)	1:64:A:THR:HG23	1:14:A:TRP:HE1	6	0.11
(1,3443)	1:63:A:GLN:HG3	1:14:A:TRP:HE1	10	0.11
(1,3368)	1:15:A:LEU:H	1:13:A:TYR:HB3	6	0.11
(1,3245)	1:30:A:GLU:HG3	1:33:A:HIS:H	8	0.11
(1,3134)	1:44:A:ASP:H	1:43:A:ILE:HG13	2	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3100)	1:48:A:ALA:HB1	1:47:A:THR:H	5	0.11
(1,3100)	1:48:A:ALA:HB2	1:47:A:THR:H	5	0.11
(1,3100)	1:48:A:ALA:HB3	1:47:A:THR:H	5	0.11
(1,3089)	1:48:A:ALA:H	1:63:A:GLN:HA	1	0.11
(1,3022)	1:51:A:LYS:HG3	1:57:A:ASP:H	1	0.11
(1,2962)	1:63:A:GLN:H	1:62:A:ASP:H	1	0.11
(1,2930)	1:66:A:LEU:H	1:65:A:HIS:HB3	1	0.11
(1,2930)	1:66:A:LEU:H	1:65:A:HIS:HB3	8	0.11
(1,2865)	1:75:A:LYS:H	1:71:A:PRO:HB2	2	0.11
(1,2788)	1:81:A:ASN:H	1:84:A:TYR:H	3	0.11
(1,2786)	1:81:A:ASN:H	1:86:A:GLY:H	10	0.11
(1,2759)	1:79:A:VAL:HG21	1:85:A:ARG:H	9	0.11
(1,2759)	1:79:A:VAL:HG22	1:85:A:ARG:H	9	0.11
(1,2759)	1:79:A:VAL:HG23	1:85:A:ARG:H	9	0.11
(1,2641)	1:95:A:ASN:HD21	1:95:A:ASN:H	5	0.11
(1,2630)	1:96:A:GLU:H	1:98:A:THR:H	6	0.11
(1,2588)	1:100:A:SER:H	1:100:A:SER:HB3	9	0.11
(1,2573)	1:101:A:ALA:H	1:100:A:SER:HB2	5	0.11
(1,2571)	1:117:A:GLY:HA2	1:101:A:ALA:H	1	0.11
(1,2529)	1:105:A:ILE:HG13	1:105:A:ILE:H	5	0.11
(1,2509)	1:107:A:THR:H	1:88:A:GLU:H	6	0.11
(1,2507)	1:107:A:THR:HB	1:107:A:THR:H	6	0.11
(1,2400)	1:119:A:GLN:H	1:100:A:SER:HB2	5	0.11
(1,2368)	1:119:A:GLN:HA	1:121:A:GLU:H	3	0.11
(1,2358)	1:122:A:ASP:H	1:121:A:GLU:HB2	2	0.11
(1,2330)	1:125:A:LYS:HE2	1:125:A:LYS:H	9	0.11
(1,2283)	1:68:A:THR:HG21	1:21:A:VAL:HG11	5	0.11
(1,2283)	1:68:A:THR:HG21	1:21:A:VAL:HG12	5	0.11
(1,2283)	1:68:A:THR:HG21	1:21:A:VAL:HG13	5	0.11
(1,2283)	1:68:A:THR:HG22	1:21:A:VAL:HG11	5	0.11
(1,2283)	1:68:A:THR:HG22	1:21:A:VAL:HG12	5	0.11
(1,2283)	1:68:A:THR:HG22	1:21:A:VAL:HG13	5	0.11
(1,2283)	1:68:A:THR:HG23	1:21:A:VAL:HG11	5	0.11
(1,2283)	1:68:A:THR:HG23	1:21:A:VAL:HG12	5	0.11
(1,2283)	1:68:A:THR:HG23	1:21:A:VAL:HG13	5	0.11
(1,2258)	1:23:A:ILE:HD11	1:32:A:TYR:HA	3	0.11
(1,2258)	1:23:A:ILE:HD12	1:32:A:TYR:HA	3	0.11
(1,2258)	1:23:A:ILE:HD13	1:32:A:TYR:HA	3	0.11
(1,2241)	1:71:A:PRO:HA	1:70:A:ILE:HG21	10	0.11
(1,2241)	1:71:A:PRO:HA	1:70:A:ILE:HG22	10	0.11
(1,2241)	1:71:A:PRO:HA	1:70:A:ILE:HG23	10	0.11
(1,2190)	1:107:A:THR:HG21	1:106:A:GLU:H	4	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2190)	1:107:A:THR:HG22	1:106:A:GLU:H	4	0.11
(1,2190)	1:107:A:THR:HG23	1:106:A:GLU:H	4	0.11
(1,2178)	1:104:A:VAL:HG21	1:112:A:GLY:HA3	7	0.11
(1,2178)	1:104:A:VAL:HG22	1:112:A:GLY:HA3	7	0.11
(1,2178)	1:104:A:VAL:HG23	1:112:A:GLY:HA3	7	0.11
(1,2155)	1:118:A:ILE:HA	1:101:A:ALA:H	8	0.11
(1,2149)	1:118:A:ILE:HG13	1:118:A:ILE:HA	1	0.11
(1,2110)	1:126:A:LEU:HB3	1:77:A:ILE:HG21	7	0.11
(1,2110)	1:126:A:LEU:HB3	1:77:A:ILE:HG22	7	0.11
(1,2110)	1:126:A:LEU:HB3	1:77:A:ILE:HG23	7	0.11
(1,2102)	1:126:A:LEU:HD21	1:77:A:ILE:H	6	0.11
(1,2102)	1:126:A:LEU:HD22	1:77:A:ILE:H	6	0.11
(1,2102)	1:126:A:LEU:HD23	1:77:A:ILE:H	6	0.11
(1,2049)	1:19:A:ILE:HB	1:124:A:SER:HB2	7	0.11
(1,1947)	1:117:A:GLY:HA3	1:116:A:GLU:HA	4	0.11
(1,1896)	1:114:A:ARG:HA	1:114:A:ARG:HG2	9	0.11
(1,1890)	1:84:A:TYR:HE1	1:113:A:ARG:HD3	6	0.11
(1,1890)	1:84:A:TYR:HE2	1:113:A:ARG:HD3	6	0.11
(1,1868)	1:104:A:VAL:HG21	1:112:A:GLY:HA3	8	0.11
(1,1868)	1:104:A:VAL:HG22	1:112:A:GLY:HA3	8	0.11
(1,1868)	1:104:A:VAL:HG23	1:112:A:GLY:HA3	8	0.11
(1,1836)	1:110:A:LEU:HB2	1:105:A:ILE:HD11	3	0.11
(1,1836)	1:110:A:LEU:HB2	1:105:A:ILE:HD12	3	0.11
(1,1836)	1:110:A:LEU:HB2	1:105:A:ILE:HD13	3	0.11
(1,1785)	1:107:A:THR:HB	1:107:A:THR:HA	4	0.11
(1,1753)	1:115:A:VAL:HG11	1:105:A:ILE:HG13	2	0.11
(1,1753)	1:115:A:VAL:HG12	1:105:A:ILE:HG13	2	0.11
(1,1753)	1:115:A:VAL:HG13	1:105:A:ILE:HG13	2	0.11
(1,1714)	1:103:A:ILE:HG21	1:123:A:ILE:HG21	3	0.11
(1,1714)	1:103:A:ILE:HG21	1:123:A:ILE:HG22	3	0.11
(1,1714)	1:103:A:ILE:HG21	1:123:A:ILE:HG23	3	0.11
(1,1714)	1:103:A:ILE:HG22	1:123:A:ILE:HG21	3	0.11
(1,1714)	1:103:A:ILE:HG22	1:123:A:ILE:HG22	3	0.11
(1,1714)	1:103:A:ILE:HG22	1:123:A:ILE:HG23	3	0.11
(1,1714)	1:103:A:ILE:HG23	1:123:A:ILE:HG21	3	0.11
(1,1714)	1:103:A:ILE:HG23	1:123:A:ILE:HG22	3	0.11
(1,1714)	1:103:A:ILE:HG23	1:123:A:ILE:HG23	3	0.11
(1,1689)	1:90:A:THR:H	1:103:A:ILE:HB	3	0.11
(1,1676)	1:102:A:THR:HG21	1:103:A:ILE:H	7	0.11
(1,1676)	1:102:A:THR:HG22	1:103:A:ILE:H	7	0.11
(1,1676)	1:102:A:THR:HG23	1:103:A:ILE:H	7	0.11
(1,1655)	1:94:A:ILE:HG21	1:101:A:ALA:HA	8	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1655)	1:94:A:ILE:HG22	1:101:A:ALA:HA	8	0.11
(1,1655)	1:94:A:ILE:HG23	1:101:A:ALA:HA	8	0.11
(1,1632)	1:100:A:SER:HA	1:101:A:ALA:H	10	0.11
(1,1613)	1:98:A:THR:HA	1:98:A:THR:HB	3	0.11
(1,1458)	1:88:A:GLU:H	1:87:A:ASN:HB2	6	0.11
(1,1458)	1:88:A:GLU:H	1:87:A:ASN:HB2	8	0.11
(1,1319)	1:125:A:LYS:HA	1:77:A:ILE:HG21	10	0.11
(1,1319)	1:125:A:LYS:HA	1:77:A:ILE:HG22	10	0.11
(1,1319)	1:125:A:LYS:HA	1:77:A:ILE:HG23	10	0.11
(1,1303)	1:78:A:LEU:H	1:77:A:ILE:HD11	7	0.11
(1,1303)	1:78:A:LEU:H	1:77:A:ILE:HD12	7	0.11
(1,1303)	1:78:A:LEU:H	1:77:A:ILE:HD13	7	0.11
(1,1269)	1:91:A:LEU:H	1:76:A:ARG:HA	6	0.11
(1,1062)	1:65:A:HIS:HB3	1:61:A:LEU:HB2	1	0.11
(1,1021)	1:15:A:LEU:HD11	1:63:A:GLN:HB2	9	0.11
(1,1021)	1:15:A:LEU:HD12	1:63:A:GLN:HB2	9	0.11
(1,1021)	1:15:A:LEU:HD13	1:63:A:GLN:HB2	9	0.11
(1,951)	1:60:A:LYS:HA	1:50:A:VAL:H	9	0.11
(1,940)	1:61:A:LEU:HG	1:59:A:LEU:HD11	2	0.11
(1,940)	1:61:A:LEU:HG	1:59:A:LEU:HD12	2	0.11
(1,940)	1:61:A:LEU:HG	1:59:A:LEU:HD13	2	0.11
(1,886)	1:54:A:ASP:HA	1:54:A:ASP:H	4	0.11
(1,869)	1:94:A:ILE:HD11	1:120:A:TYR:HE1	8	0.11
(1,869)	1:94:A:ILE:HD11	1:120:A:TYR:HE2	8	0.11
(1,869)	1:94:A:ILE:HD12	1:120:A:TYR:HE1	8	0.11
(1,869)	1:94:A:ILE:HD12	1:120:A:TYR:HE2	8	0.11
(1,869)	1:94:A:ILE:HD13	1:120:A:TYR:HE1	8	0.11
(1,869)	1:94:A:ILE:HD13	1:120:A:TYR:HE2	8	0.11
(1,861)	1:53:A:ILE:HD11	1:36:A:LYS:HE3	4	0.11
(1,861)	1:53:A:ILE:HD12	1:36:A:LYS:HE3	4	0.11
(1,861)	1:53:A:ILE:HD13	1:36:A:LYS:HE3	4	0.11
(1,859)	1:37:A:ALA:HA	1:53:A:ILE:HD11	1	0.11
(1,859)	1:37:A:ALA:HA	1:53:A:ILE:HD12	1	0.11
(1,859)	1:37:A:ALA:HA	1:53:A:ILE:HD13	1	0.11
(1,842)	1:53:A:ILE:HA	1:53:A:ILE:HG13	4	0.11
(1,788)	1:49:A:VAL:HG21	1:48:A:ALA:HA	2	0.11
(1,788)	1:49:A:VAL:HG22	1:48:A:ALA:HA	2	0.11
(1,788)	1:49:A:VAL:HG23	1:48:A:ALA:HA	2	0.11
(1,787)	1:49:A:VAL:HG11	1:58:A:LYS:HG2	2	0.11
(1,787)	1:49:A:VAL:HG12	1:58:A:LYS:HG2	2	0.11
(1,787)	1:49:A:VAL:HG13	1:58:A:LYS:HG2	2	0.11
(1,777)	1:48:A:ALA:HB1	1:41:A:GLU:H	3	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,777)	1:48:A:ALA:HB2	1:41:A:GLU:H	3	0.11
(1,777)	1:48:A:ALA:HB3	1:41:A:GLU:H	3	0.11
(1,763)	1:47:A:THR:HB	1:43:A:ILE:HG21	2	0.11
(1,763)	1:47:A:THR:HB	1:43:A:ILE:HG22	2	0.11
(1,763)	1:47:A:THR:HB	1:43:A:ILE:HG23	2	0.11
(1,763)	1:47:A:THR:HB	1:43:A:ILE:HG21	4	0.11
(1,763)	1:47:A:THR:HB	1:43:A:ILE:HG22	4	0.11
(1,763)	1:47:A:THR:HB	1:43:A:ILE:HG23	4	0.11
(1,747)	1:46:A:TYR:HA	1:46:A:TYR:HD1	5	0.11
(1,747)	1:46:A:TYR:HA	1:46:A:TYR:HD2	5	0.11
(1,660)	1:15:A:LEU:H	1:42:A:VAL:HG21	5	0.11
(1,660)	1:15:A:LEU:H	1:42:A:VAL:HG22	5	0.11
(1,660)	1:15:A:LEU:H	1:42:A:VAL:HG23	5	0.11
(1,654)	1:15:A:LEU:HB2	1:42:A:VAL:HG11	4	0.11
(1,654)	1:15:A:LEU:HB2	1:42:A:VAL:HG12	4	0.11
(1,654)	1:15:A:LEU:HB2	1:42:A:VAL:HG13	4	0.11
(1,632)	1:41:A:GLU:HB3	1:41:A:GLU:HG2	10	0.11
(1,585)	1:127:A:ALA:HA	1:38:A:ILE:HD11	3	0.11
(1,585)	1:127:A:ALA:HA	1:38:A:ILE:HD12	3	0.11
(1,585)	1:127:A:ALA:HA	1:38:A:ILE:HD13	3	0.11
(1,563)	1:39:A:VAL:HG21	1:19:A:ILE:H	6	0.11
(1,563)	1:39:A:VAL:HG22	1:19:A:ILE:H	6	0.11
(1,563)	1:39:A:VAL:HG23	1:19:A:ILE:H	6	0.11
(1,548)	1:39:A:VAL:HA	1:50:A:VAL:HB	6	0.11
(1,478)	1:31:A:LYS:HB3	1:31:A:LYS:HA	4	0.11
(1,478)	1:31:A:LYS:HB3	1:31:A:LYS:HA	5	0.11
(1,478)	1:31:A:LYS:HB3	1:31:A:LYS:HA	9	0.11
(1,468)	1:30:A:GLU:HB3	1:30:A:GLU:HA	2	0.11
(1,468)	1:30:A:GLU:HB3	1:30:A:GLU:HA	6	0.11
(1,458)	1:61:A:LEU:HD21	1:60:A:LYS:H	5	0.11
(1,458)	1:61:A:LEU:HD22	1:60:A:LYS:H	5	0.11
(1,458)	1:61:A:LEU:HD23	1:60:A:LYS:H	5	0.11
(1,453)	1:32:A:TYR:HD1	1:28:A:LEU:HD11	1	0.11
(1,453)	1:32:A:TYR:HD1	1:28:A:LEU:HD12	1	0.11
(1,453)	1:32:A:TYR:HD1	1:28:A:LEU:HD13	1	0.11
(1,453)	1:32:A:TYR:HD2	1:28:A:LEU:HD11	1	0.11
(1,453)	1:32:A:TYR:HD2	1:28:A:LEU:HD12	1	0.11
(1,453)	1:32:A:TYR:HD2	1:28:A:LEU:HD13	1	0.11
(1,439)	1:60:A:LYS:HD2	1:60:A:LYS:HA	9	0.11
(1,401)	1:23:A:ILE:HA	1:24:A:ILE:HG21	10	0.11
(1,401)	1:23:A:ILE:HA	1:24:A:ILE:HG22	10	0.11
(1,401)	1:23:A:ILE:HA	1:24:A:ILE:HG23	10	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,400)	1:24:A:ILE:HA	1:24:A:ILE:HG21	5	0.11
(1,400)	1:24:A:ILE:HA	1:24:A:ILE:HG22	5	0.11
(1,400)	1:24:A:ILE:HA	1:24:A:ILE:HG23	5	0.11
(1,399)	1:66:A:LEU:HA	1:24:A:ILE:HG21	9	0.11
(1,399)	1:66:A:LEU:HA	1:24:A:ILE:HG22	9	0.11
(1,399)	1:66:A:LEU:HA	1:24:A:ILE:HG23	9	0.11
(1,374)	1:23:A:ILE:HG21	1:33:A:HIS:HD2	5	0.11
(1,374)	1:23:A:ILE:HG22	1:33:A:HIS:HD2	5	0.11
(1,374)	1:23:A:ILE:HG23	1:33:A:HIS:HD2	5	0.11
(1,374)	1:23:A:ILE:HG21	1:33:A:HIS:HD2	9	0.11
(1,374)	1:23:A:ILE:HG22	1:33:A:HIS:HD2	9	0.11
(1,374)	1:23:A:ILE:HG23	1:33:A:HIS:HD2	9	0.11
(1,309)	1:21:A:VAL:HG21	1:14:A:TRP:HH2	5	0.11
(1,309)	1:21:A:VAL:HG22	1:14:A:TRP:HH2	5	0.11
(1,309)	1:21:A:VAL:HG23	1:14:A:TRP:HH2	5	0.11
(1,309)	1:21:A:VAL:HG21	1:14:A:TRP:HH2	8	0.11
(1,309)	1:21:A:VAL:HG22	1:14:A:TRP:HH2	8	0.11
(1,309)	1:21:A:VAL:HG23	1:14:A:TRP:HH2	8	0.11
(1,288)	1:20:A:ILE:H	1:20:A:ILE:HG12	1	0.11
(1,288)	1:20:A:ILE:H	1:20:A:ILE:HG12	6	0.11
(1,288)	1:20:A:ILE:H	1:20:A:ILE:HG12	7	0.11
(1,281)	1:20:A:ILE:HD11	1:20:A:ILE:HB	4	0.11
(1,281)	1:20:A:ILE:HD12	1:20:A:ILE:HB	4	0.11
(1,281)	1:20:A:ILE:HD13	1:20:A:ILE:HB	4	0.11
(1,205)	1:17:A:PRO:HA	1:17:A:PRO:HG2	3	0.11
(1,205)	1:17:A:PRO:HA	1:17:A:PRO:HG2	5	0.11
(1,205)	1:17:A:PRO:HA	1:17:A:PRO:HG2	10	0.11
(1,150)	1:48:A:ALA:H	1:15:A:LEU:HD21	8	0.11
(1,150)	1:48:A:ALA:H	1:15:A:LEU:HD22	8	0.11
(1,150)	1:48:A:ALA:H	1:15:A:LEU:HD23	8	0.11
(1,102)	1:14:A:TRP:HB3	1:14:A:TRP:HE3	10	0.11
(1,81)	1:47:A:THR:HG21	1:60:A:LYS:HE3	1	0.11
(1,81)	1:47:A:THR:HG22	1:60:A:LYS:HE3	1	0.11
(1,81)	1:47:A:THR:HG23	1:60:A:LYS:HE3	1	0.11
(1,28)	1:7:A:ARG:HB3	1:7:A:ARG:HG2	6	0.11
(1,1)	1:107:A:THR:HB	1:108:A:GLY:H	8	0.11
(3,1226)	1:93:A:SER:H	1:92:A:GLU:HG2	8	0.1
(3,1182)	1:98:A:THR:HG21	1:98:A:THR:HA	5	0.1
(3,1182)	1:98:A:THR:HG21	1:98:A:THR:HA	9	0.1
(3,1153)	1:3:A:GLU:HA	1:4:A:GLU:H	7	0.1
(3,1128)	1:75:A:LYS:HG2	1:72:A:ALA:H	3	0.1
(3,1061)	1:10:A:ARG:HB2	1:10:A:ARG:HA	4	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1061)	1:10:A:ARG:HB2	1:10:A:ARG:HA	8	0.1
(3,1061)	1:10:A:ARG:HB2	1:10:A:ARG:HA	9	0.1
(3,1001)	1:50:A:VAL:HA	1:50:A:VAL:H	7	0.1
(3,899)	1:35:A:LYS:HA	1:35:A:LYS:H	8	0.1
(3,792)	1:126:A:LEU:HG	1:126:A:LEU:HD21	5	0.1
(3,729)	1:26:A:LYS:HE2	1:26:A:LYS:HD3	1	0.1
(3,729)	1:26:A:LYS:HD2	1:26:A:LYS:HE3	6	0.1
(3,646)	1:85:A:ARG:H	1:83:A:GLY:H	1	0.1
(3,481)	1:93:A:SER:H	1:93:A:SER:HB3	4	0.1
(3,481)	1:93:A:SER:H	1:93:A:SER:HB3	10	0.1
(3,450)	1:103:A:ILE:HG23	1:102:A:THR:HA	1	0.1
(3,396)	1:118:A:ILE:HG23	1:121:A:GLU:HA	8	0.1
(3,332)	1:43:A:ILE:HG21	1:43:A:ILE:HG13	4	0.1
(3,310)	1:51:A:LYS:HD2	1:51:A:LYS:HG3	6	0.1
(3,296)	1:91:A:LEU:HD23	1:101:A:ALA:HB2	5	0.1
(3,144)	1:96:A:GLU:HB2	1:97:A:LYS:H	3	0.1
(3,129)	1:77:A:ILE:HD13	1:123:A:ILE:HB	6	0.1
(3,129)	1:77:A:ILE:HD13	1:123:A:ILE:HB	8	0.1
(3,98)	1:96:A:GLU:HB3	1:96:A:GLU:HB2	1	0.1
(3,98)	1:2:A:GLU:HB2	1:2:A:GLU:HB3	2	0.1
(3,98)	1:2:A:GLU:HB2	1:2:A:GLU:HB3	3	0.1
(3,98)	1:3:A:GLU:HB3	1:3:A:GLU:HB2	4	0.1
(3,98)	1:2:A:GLU:HB2	1:2:A:GLU:HB3	5	0.1
(3,98)	1:3:A:GLU:HB3	1:3:A:GLU:HB2	6	0.1
(3,98)	1:2:A:GLU:HB2	1:2:A:GLU:HB3	7	0.1
(3,98)	1:3:A:GLU:HB3	1:3:A:GLU:HB2	8	0.1
(3,98)	1:96:A:GLU:HB3	1:96:A:GLU:HB2	9	0.1
(3,98)	1:2:A:GLU:HB2	1:2:A:GLU:HB3	10	0.1
(2,650)	1:61:A:LEU:HB2	1:65:A:HIS:HD2	4	0.1
(2,229)	1:104:A:VAL:HG21	1:115:A:VAL:HG11	10	0.1
(2,229)	1:104:A:VAL:HG21	1:115:A:VAL:HG12	10	0.1
(2,229)	1:104:A:VAL:HG21	1:115:A:VAL:HG13	10	0.1
(2,229)	1:104:A:VAL:HG22	1:115:A:VAL:HG11	10	0.1
(2,229)	1:104:A:VAL:HG22	1:115:A:VAL:HG12	10	0.1
(2,229)	1:104:A:VAL:HG22	1:115:A:VAL:HG13	10	0.1
(2,229)	1:104:A:VAL:HG23	1:115:A:VAL:HG11	10	0.1
(2,229)	1:104:A:VAL:HG23	1:115:A:VAL:HG12	10	0.1
(2,229)	1:104:A:VAL:HG23	1:115:A:VAL:HG13	10	0.1
(2,61)	1:26:A:LYS:HE2	1:24:A:ILE:HA	2	0.1
(1,3752)	1:34:A:LYS:HG2	1:33:A:HIS:HE1	6	0.1
(1,3750)	1:14:A:TRP:HZ2	1:63:A:GLN:HB3	1	0.1
(1,3750)	1:14:A:TRP:HZ2	1:63:A:GLN:HB3	2	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3737)	1:5:A:LYS:H	1:3:A:GLU:H	10	0.1
(1,3710)	1:82:A:GLY:H	1:85:A:ARG:HA	3	0.1
(1,3635)	1:64:A:THR:H	1:62:A:ASP:H	8	0.1
(1,3575)	1:87:A:ASN:H	1:87:A:ASN:HD22	5	0.1
(1,3557)	1:10:A:ARG:HG2	1:81:A:ASN:HD21	9	0.1
(1,3547)	1:84:A:TYR:HB2	1:79:A:VAL:H	8	0.1
(1,3544)	1:66:A:LEU:HD11	1:65:A:HIS:H	3	0.1
(1,3544)	1:66:A:LEU:HD12	1:65:A:HIS:H	3	0.1
(1,3544)	1:66:A:LEU:HD13	1:65:A:HIS:H	3	0.1
(1,3449)	1:15:A:LEU:H	1:14:A:TRP:HE1	5	0.1
(1,3317)	1:22:A:LYS:H	1:66:A:LEU:HA	10	0.1
(1,3225)	1:35:A:LYS:H	1:34:A:LYS:HG3	5	0.1
(1,3213)	1:36:A:LYS:H	1:35:A:LYS:H	8	0.1
(1,3176)	1:51:A:LYS:HB3	1:40:A:LYS:H	7	0.1
(1,3134)	1:44:A:ASP:H	1:43:A:ILE:HG13	1	0.1
(1,3108)	1:46:A:TYR:H	1:47:A:THR:HA	3	0.1
(1,2996)	1:60:A:LYS:HB2	1:60:A:LYS:H	7	0.1
(1,2967)	1:46:A:TYR:HB2	1:63:A:GLN:H	10	0.1
(1,2958)	1:64:A:THR:H	1:63:A:GLN:HB2	7	0.1
(1,2865)	1:75:A:LYS:H	1:71:A:PRO:HB2	5	0.1
(1,2786)	1:81:A:ASN:H	1:86:A:GLY:H	4	0.1
(1,2636)	1:96:A:GLU:H	1:97:A:LYS:HD3	9	0.1
(1,2634)	1:96:A:GLU:HG3	1:96:A:GLU:H	7	0.1
(1,2607)	1:97:A:LYS:HG2	1:98:A:THR:H	1	0.1
(1,2589)	1:95:A:ASN:HB3	1:100:A:SER:H	7	0.1
(1,2509)	1:107:A:THR:H	1:88:A:GLU:H	3	0.1
(1,2509)	1:107:A:THR:H	1:88:A:GLU:H	7	0.1
(1,2481)	1:106:A:GLU:HA	1:111:A:LYS:H	9	0.1
(1,2454)	1:113:A:ARG:HD2	1:114:A:ARG:H	9	0.1
(1,2336)	1:77:A:ILE:HA	1:125:A:LYS:H	1	0.1
(1,2330)	1:125:A:LYS:HE2	1:125:A:LYS:H	2	0.1
(1,2330)	1:125:A:LYS:HE2	1:125:A:LYS:H	10	0.1
(1,2252)	1:40:A:LYS:HE3	1:40:A:LYS:HG3	2	0.1
(1,2193)	1:107:A:THR:HG21	1:87:A:ASN:HA	3	0.1
(1,2193)	1:107:A:THR:HG22	1:87:A:ASN:HA	3	0.1
(1,2193)	1:107:A:THR:HG23	1:87:A:ASN:HA	3	0.1
(1,2178)	1:104:A:VAL:HG21	1:112:A:GLY:HA3	10	0.1
(1,2178)	1:104:A:VAL:HG22	1:112:A:GLY:HA3	10	0.1
(1,2178)	1:104:A:VAL:HG23	1:112:A:GLY:HA3	10	0.1
(1,2149)	1:118:A:ILE:HG13	1:118:A:ILE:HA	7	0.1
(1,2034)	1:98:A:THR:HG21	1:95:A:ASN:HB3	10	0.1
(1,2034)	1:98:A:THR:HG22	1:95:A:ASN:HB3	10	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2034)	1:98:A:THR:HG23	1:95:A:ASN:HB3	10	0.1
(1,1947)	1:117:A:GLY:HA3	1:116:A:GLU:HA	7	0.1
(1,1946)	1:117:A:GLY:HA3	1:116:A:GLU:HB3	7	0.1
(1,1788)	1:107:A:THR:HG21	1:107:A:THR:H	1	0.1
(1,1788)	1:107:A:THR:HG22	1:107:A:THR:H	1	0.1
(1,1788)	1:107:A:THR:HG23	1:107:A:THR:H	1	0.1
(1,1785)	1:107:A:THR:HB	1:107:A:THR:HA	7	0.1
(1,1785)	1:107:A:THR:HB	1:107:A:THR:HA	9	0.1
(1,1667)	1:102:A:THR:HA	1:116:A:GLU:HG2	4	0.1
(1,1492)	1:104:A:VAL:H	1:90:A:THR:HB	8	0.1
(1,1441)	1:85:A:ARG:HB3	1:86:A:GLY:H	2	0.1
(1,1396)	1:122:A:ASP:HA	1:81:A:ASN:HB3	9	0.1
(1,1212)	1:71:A:PRO:HA	1:72:A:ALA:HA	2	0.1
(1,1087)	1:21:A:VAL:HB	1:66:A:LEU:HB2	10	0.1
(1,941)	1:59:A:LEU:HD11	1:32:A:TYR:HE1	5	0.1
(1,941)	1:59:A:LEU:HD11	1:32:A:TYR:HE2	5	0.1
(1,941)	1:59:A:LEU:HD12	1:32:A:TYR:HE1	5	0.1
(1,941)	1:59:A:LEU:HD12	1:32:A:TYR:HE2	5	0.1
(1,941)	1:59:A:LEU:HD13	1:32:A:TYR:HE1	5	0.1
(1,941)	1:59:A:LEU:HD13	1:32:A:TYR:HE2	5	0.1
(1,940)	1:61:A:LEU:HG	1:59:A:LEU:HD11	4	0.1
(1,940)	1:61:A:LEU:HG	1:59:A:LEU:HD12	4	0.1
(1,940)	1:61:A:LEU:HG	1:59:A:LEU:HD13	4	0.1
(1,926)	1:58:A:LYS:HG3	1:59:A:LEU:H	1	0.1
(1,922)	1:60:A:LYS:HE2	1:60:A:LYS:HA	5	0.1
(1,862)	1:53:A:ILE:HB	1:53:A:ILE:HD11	1	0.1
(1,862)	1:53:A:ILE:HB	1:53:A:ILE:HD12	1	0.1
(1,862)	1:53:A:ILE:HB	1:53:A:ILE:HD13	1	0.1
(1,862)	1:53:A:ILE:HB	1:53:A:ILE:HD11	9	0.1
(1,862)	1:53:A:ILE:HB	1:53:A:ILE:HD12	9	0.1
(1,862)	1:53:A:ILE:HB	1:53:A:ILE:HD13	9	0.1
(1,839)	1:53:A:ILE:HA	1:53:A:ILE:HG21	4	0.1
(1,839)	1:53:A:ILE:HA	1:53:A:ILE:HG22	4	0.1
(1,839)	1:53:A:ILE:HA	1:53:A:ILE:HG23	4	0.1
(1,693)	1:80:A:LEU:HD11	1:124:A:SER:HB2	2	0.1
(1,693)	1:80:A:LEU:HD12	1:124:A:SER:HB2	2	0.1
(1,693)	1:80:A:LEU:HD13	1:124:A:SER:HB2	2	0.1
(1,659)	1:45:A:LYS:H	1:42:A:VAL:HG21	10	0.1
(1,659)	1:45:A:LYS:H	1:42:A:VAL:HG22	10	0.1
(1,659)	1:45:A:LYS:H	1:42:A:VAL:HG23	10	0.1
(1,632)	1:41:A:GLU:HB3	1:41:A:GLU:HG2	9	0.1
(1,585)	1:127:A:ALA:HA	1:38:A:ILE:HD11	10	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,585)	1:127:A:ALA:HA	1:38:A:ILE:HD12	10	0.1
(1,585)	1:127:A:ALA:HA	1:38:A:ILE:HD13	10	0.1
(1,478)	1:31:A:LYS:HB3	1:31:A:LYS:HA	2	0.1
(1,468)	1:30:A:GLU:HB3	1:30:A:GLU:HA	1	0.1
(1,468)	1:30:A:GLU:HB3	1:30:A:GLU:HA	5	0.1
(1,400)	1:24:A:ILE:HA	1:24:A:ILE:HG21	9	0.1
(1,400)	1:24:A:ILE:HA	1:24:A:ILE:HG22	9	0.1
(1,400)	1:24:A:ILE:HA	1:24:A:ILE:HG23	9	0.1
(1,309)	1:21:A:VAL:HG21	1:14:A:TRP:HH2	3	0.1
(1,309)	1:21:A:VAL:HG22	1:14:A:TRP:HH2	3	0.1
(1,309)	1:21:A:VAL:HG23	1:14:A:TRP:HH2	3	0.1
(1,150)	1:48:A:ALA:H	1:15:A:LEU:HD21	1	0.1
(1,150)	1:48:A:ALA:H	1:15:A:LEU:HD22	1	0.1
(1,150)	1:48:A:ALA:H	1:15:A:LEU:HD23	1	0.1
(1,148)	1:15:A:LEU:HD11	1:14:A:TRP:HZ2	9	0.1
(1,148)	1:15:A:LEU:HD12	1:14:A:TRP:HZ2	9	0.1
(1,148)	1:15:A:LEU:HD13	1:14:A:TRP:HZ2	9	0.1
(1,52)	1:61:A:LEU:HD11	1:25:A:THR:HB	5	0.1
(1,52)	1:61:A:LEU:HD12	1:25:A:THR:HB	5	0.1
(1,52)	1:61:A:LEU:HD13	1:25:A:THR:HB	5	0.1
(1,28)	1:7:A:ARG:HB2	1:7:A:ARG:HG3	2	0.1
(1,28)	1:7:A:ARG:HB2	1:7:A:ARG:HG3	5	0.1
(1,14)	1:5:A:LYS:HA	1:5:A:LYS:HD2	8	0.1

10 Dihedral-angle violation analysis (i)

No dihedral-angle restraints found