



Full wwPDB NMR Structure Validation Report ⓘ

Mar 8, 2026 – 01:21 PM UTC

PDB ID : 2LG1 / pdb_00002lg1
BMRB ID : 16195
Title : Solution structure of the human AKAP13 PH domain and stabilizing DH helix
Authors : Lenoir, M.; Sugawara, M.; Ball, L.; Overduin, M.
Deposited on : 2011-07-19

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

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<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

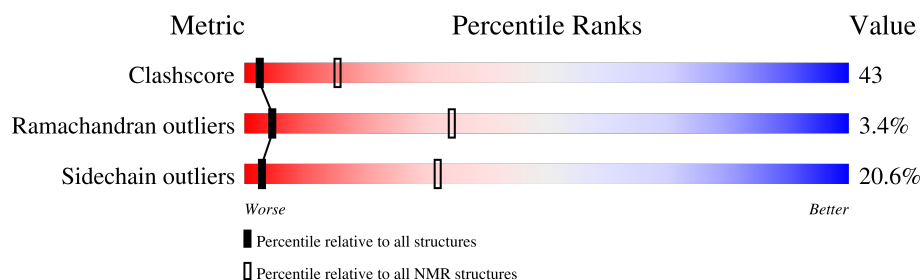
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 89%.

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 $\leq 5\%$

Mol	Chain	Length	Quality of chain
1	A	185	

2 Ensemble composition and analysis

This entry contains 20 models. Model 5 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:30-A:185 (156)	0.40	5

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 3 clusters and 4 single-model clusters were found.

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

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 2995 atoms, of which 1523 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called A-kinase anchor protein 13.

Mol	Chain	Residues	Atoms						Trace
1	A	185	Total	C	H	N	O	S	0
			2995	922	1523	250	293	7	

There are 2 discrepancies between the modelled and reference sequences:

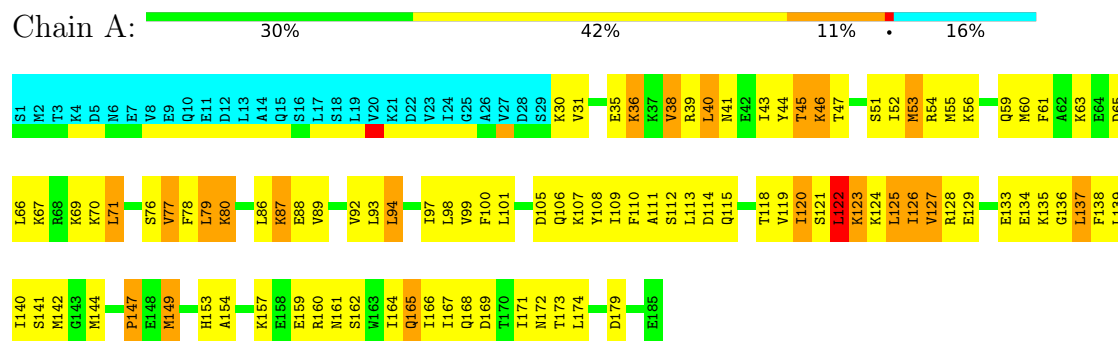
Chain	Residue	Modelled	Actual	Comment	Reference
A	1	SER	-	expression tag	UNP Q12802
A	2	MET	-	expression tag	UNP Q12802

4 Residue-property plots [i](#)

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: A-kinase anchor protein 13

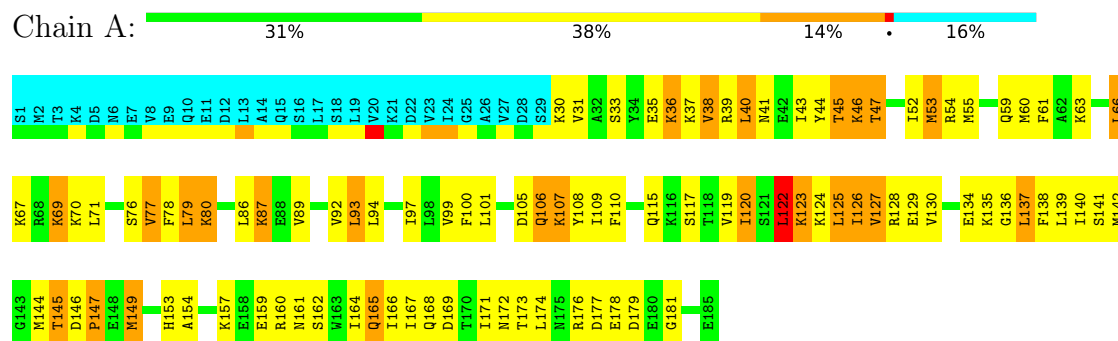


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

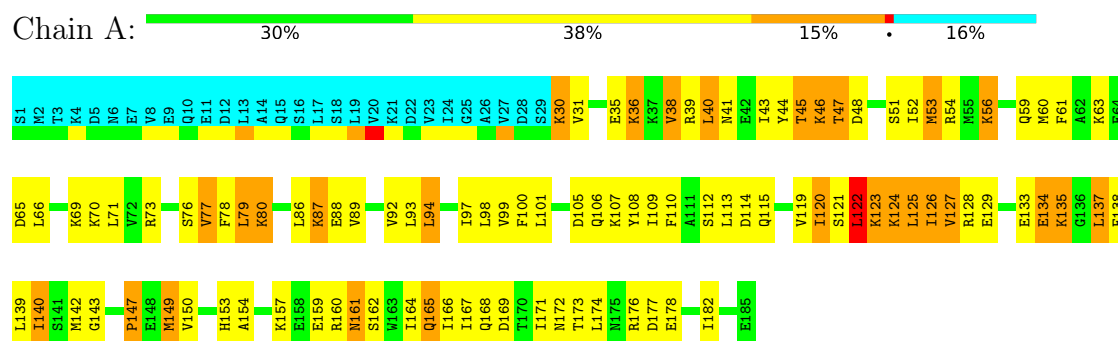
4.2.1 Score per residue for model 1

- Molecule 1: A-kinase anchor protein 13



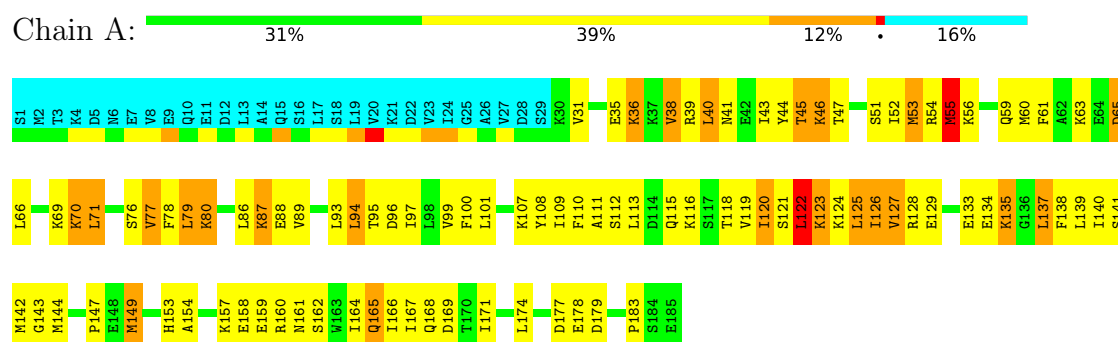
4.2.2 Score per residue for model 2

- Molecule 1: A-kinase anchor protein 13



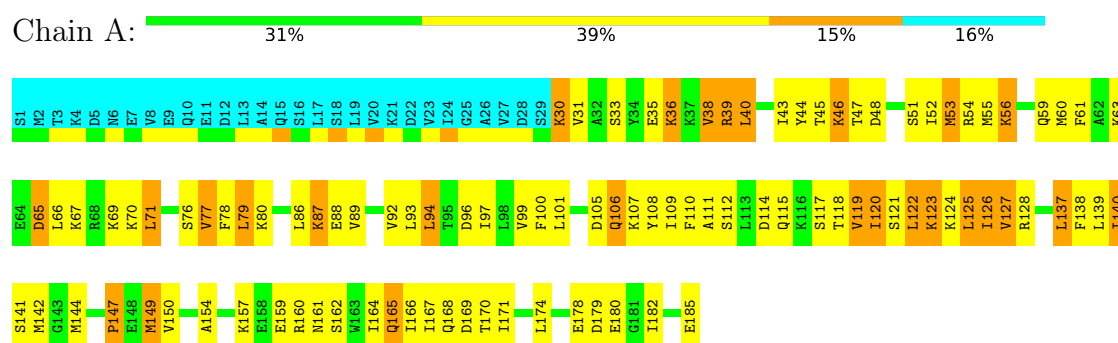
4.2.3 Score per residue for model 3

- Molecule 1: A-kinase anchor protein 13



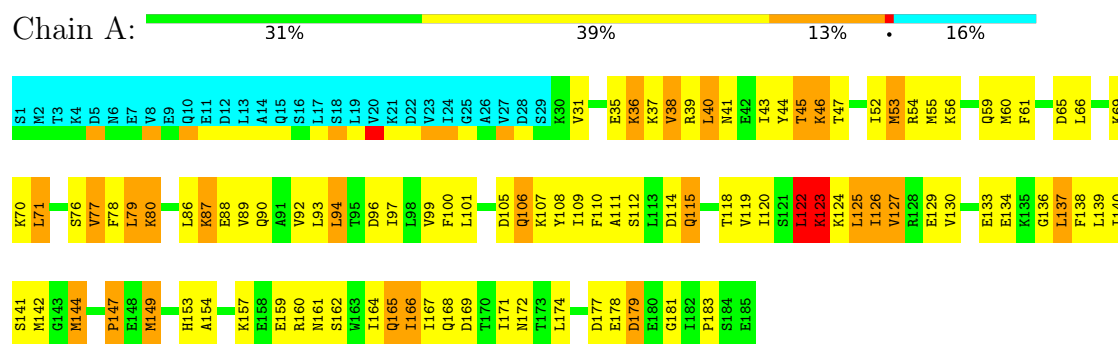
4.2.4 Score per residue for model 4

- Molecule 1: A-kinase anchor protein 13



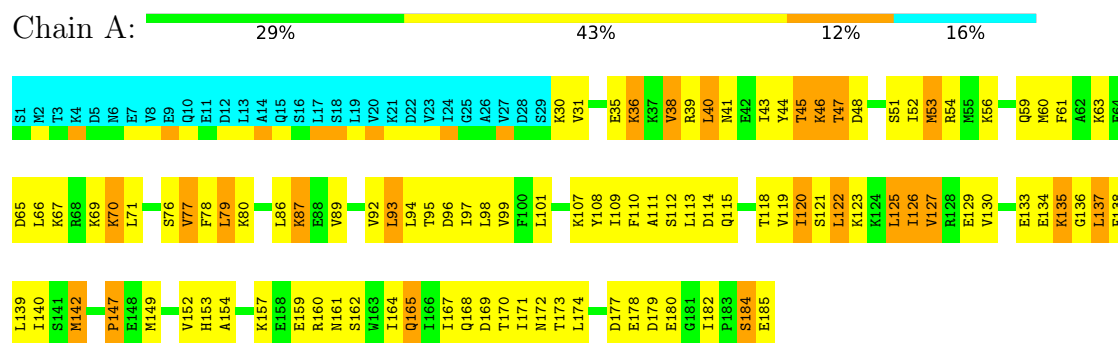
4.2.5 Score per residue for model 5 (medoid)

- Molecule 1: A-kinase anchor protein 13



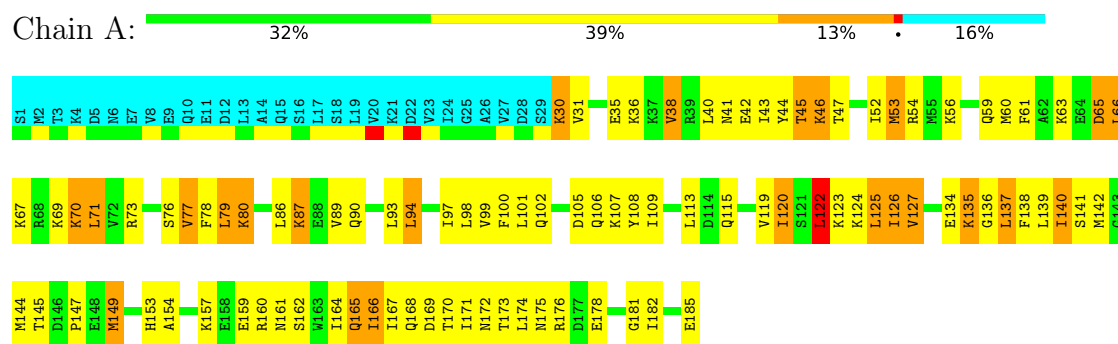
4.2.6 Score per residue for model 6

- Molecule 1: A-kinase anchor protein 13



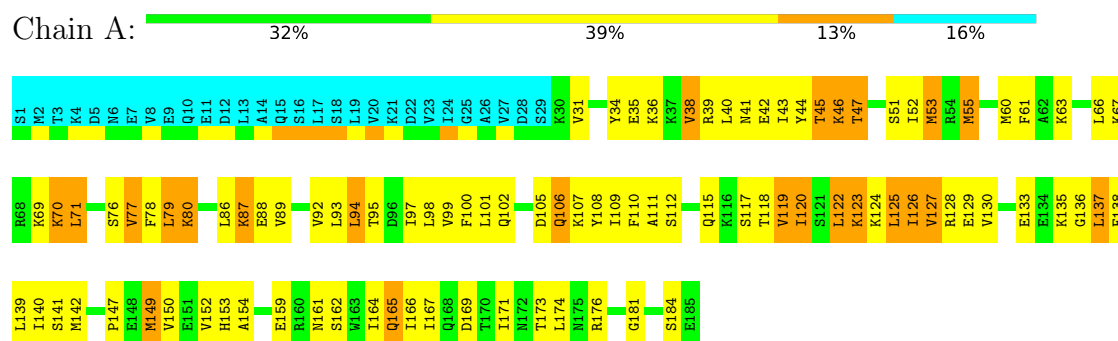
4.2.7 Score per residue for model 7

- Molecule 1: A-kinase anchor protein 13



4.2.8 Score per residue for model 8

- Molecule 1: A-kinase anchor protein 13



4.2.9 Score per residue for model 9

- Molecule 1: A-kinase anchor protein 13



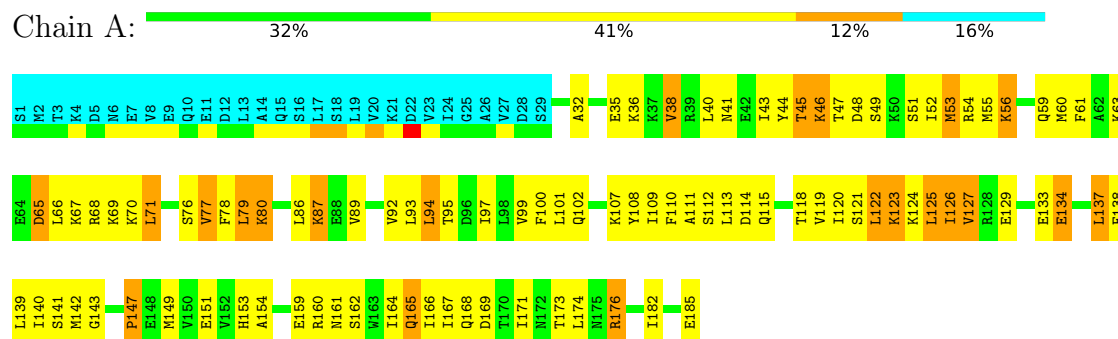
4.2.10 Score per residue for model 10

- Molecule 1: A-kinase anchor protein 13



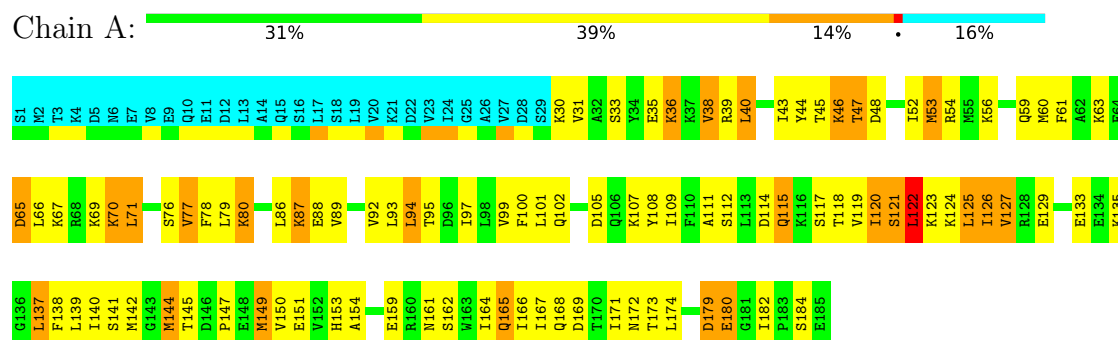
4.2.11 Score per residue for model 11

- Molecule 1: A-kinase anchor protein 13



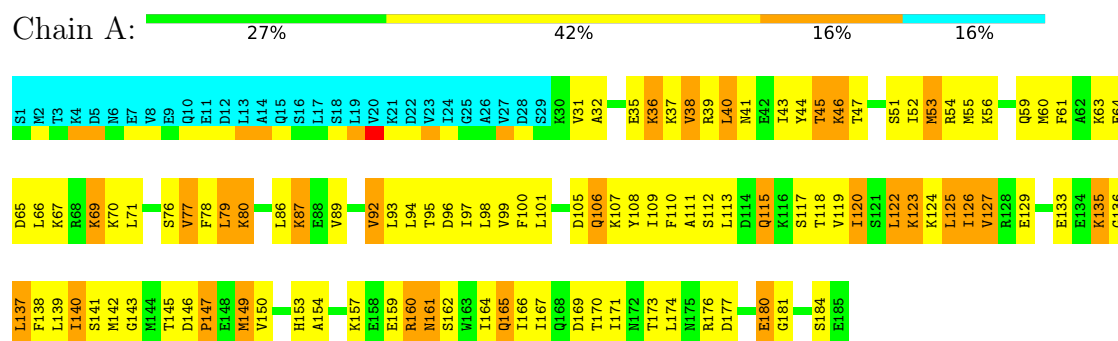
4.2.12 Score per residue for model 12

- Molecule 1: A-kinase anchor protein 13



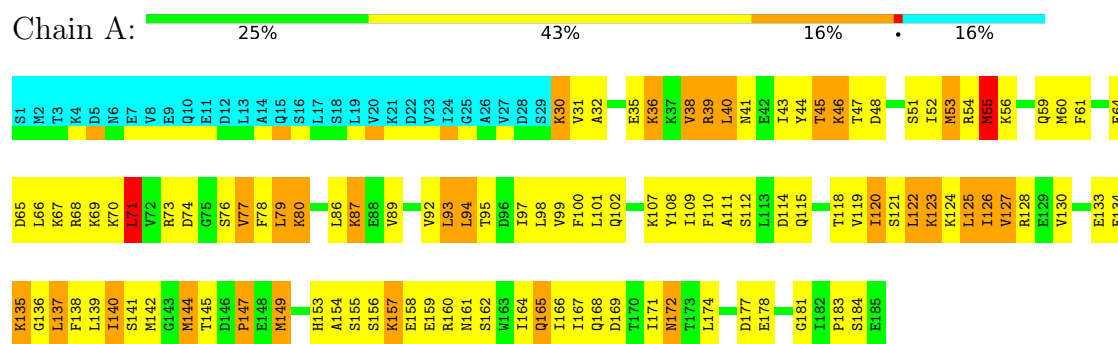
4.2.13 Score per residue for model 13

- Molecule 1: A-kinase anchor protein 13



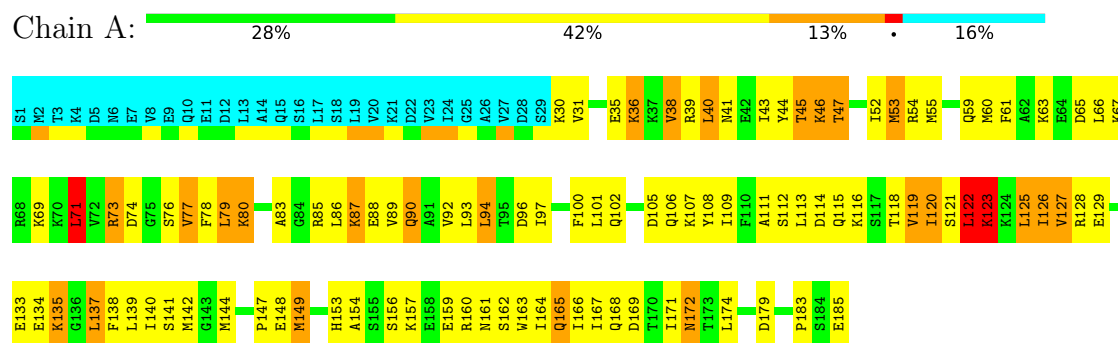
4.2.14 Score per residue for model 14

- Molecule 1: A-kinase anchor protein 13



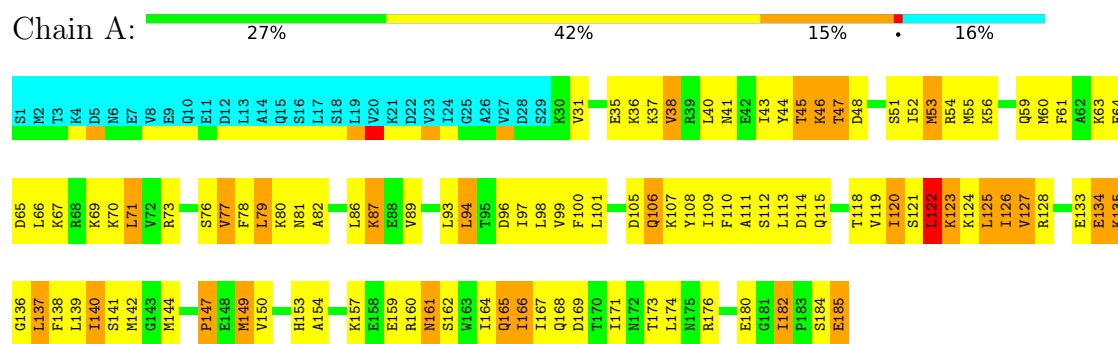
4.2.15 Score per residue for model 15

- Molecule 1: A-kinase anchor protein 13



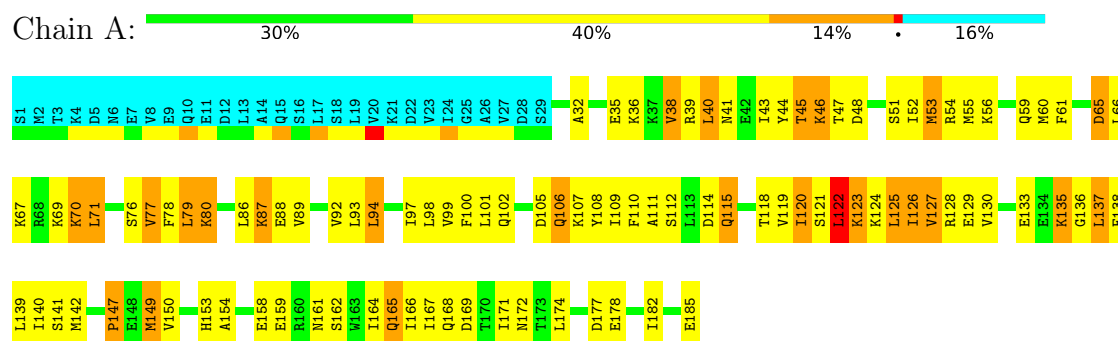
4.2.16 Score per residue for model 16

- Molecule 1: A-kinase anchor protein 13



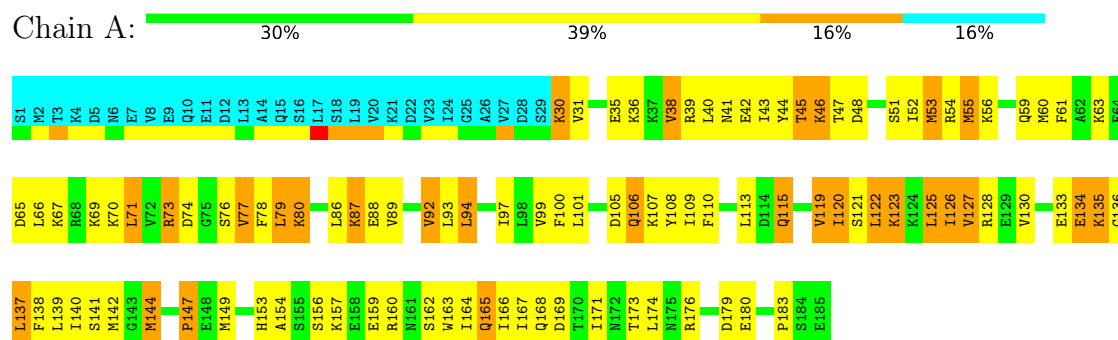
4.2.17 Score per residue for model 17

- Molecule 1: A-kinase anchor protein 13



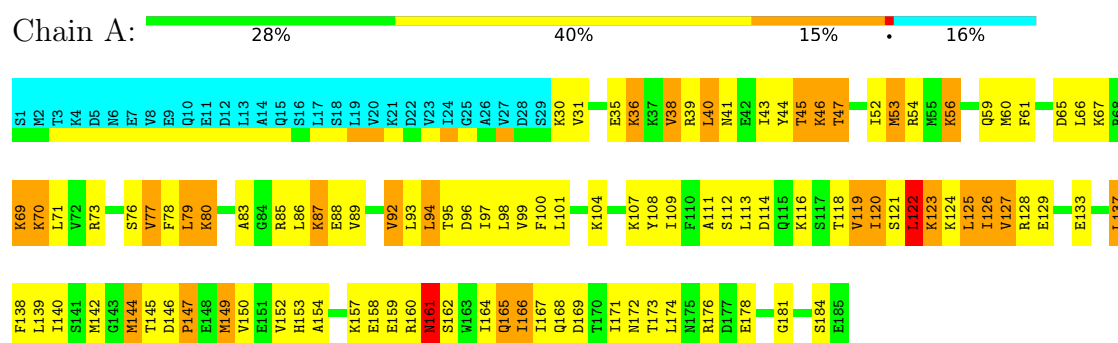
4.2.18 Score per residue for model 18

- Molecule 1: A-kinase anchor protein 13



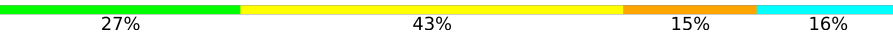
4.2.19 Score per residue for model 19

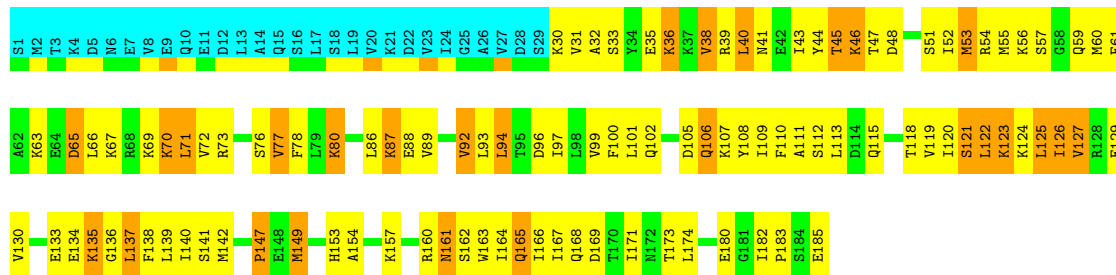
- Molecule 1: A-kinase anchor protein 13



4.2.20 Score per residue for model 20

• Molecule 1: A-kinase anchor protein 13

Chain A:  27% 43% 15% 16%



5 Refinement protocol and experimental data overview

The models were refined using the following method: *simulated annealing*.

Of the 100 calculated structures, 20 were deposited, based on the following criterion: *structures with the lowest energy*.

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

Software name	Classification	Version
ARIA	refinement	2.1

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	2281
Number of shifts mapped to atoms	2281
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	89%

6 Model quality [i](#)

6.1 Standard geometry [i](#)

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the (average) root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#Z>5	RMSZ	#Z>5
1	A	0.64±0.01	0±0/1269 (0.0± 0.0%)	0.90±0.02	0±0/1695 (0.0± 0.0%)
All	All	0.64	1/25380 (0.0%)	0.90	2/33900 (0.0%)

All unique bond outliers are listed below.

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
1	A	135	LYS	N-CA	-6.16	1.42	1.46	17	1

All unique angle outliers are listed below.

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	161	ASN	CA-CB-CG	5.51	118.11	112.60	19	2

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts [i](#)

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	1256	1310	1308	110±5
All	All	25120	26200	26160	2196

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 43.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:171:ILE:HA	1:A:174:LEU:HD12	0.91	1.42	4	20
1:A:61:PHE:CZ	1:A:97:ILE:HD13	0.90	2.02	15	19
1:A:126:ILE:HG23	1:A:140:ILE:HB	0.89	1.44	11	20
1:A:61:PHE:CE2	1:A:119:VAL:HG21	0.83	2.07	8	1
1:A:52:ILE:HG12	1:A:60:MET:HE3	0.82	1.50	4	20
1:A:125:LEU:HD21	1:A:167:ILE:HB	0.81	1.51	10	20
1:A:80:LYS:HD2	1:A:86:LEU:HD21	0.81	1.53	18	16
1:A:127:VAL:HG21	1:A:167:ILE:HG12	0.78	1.55	18	20
1:A:78:PHE:HB3	1:A:86:LEU:HD22	0.77	1.56	20	20
1:A:46:LYS:HZ2	1:A:108:TYR:HD2	0.77	1.22	11	13
1:A:126:ILE:HG21	1:A:142:MET:HB2	0.75	1.56	19	19
1:A:46:LYS:HB2	1:A:46:LYS:NZ	0.74	1.94	19	1
1:A:53:MET:N	1:A:53:MET:HE2	0.74	1.98	13	7
1:A:46:LYS:HZ1	1:A:108:TYR:HD2	0.74	1.26	18	6
1:A:46:LYS:HB2	1:A:46:LYS:HZ2	0.73	1.43	19	1
1:A:105:ASP:O	1:A:106:GLN:HG3	0.70	1.86	2	12
1:A:140:ILE:HG12	1:A:149:MET:HE3	0.70	1.64	2	17
1:A:76:SER:HA	1:A:89:VAL:O	0.69	1.88	16	20
1:A:123:LYS:C	1:A:124:LYS:HG3	0.68	2.13	10	2
1:A:61:PHE:CZ	1:A:65:ASP:HB3	0.68	2.24	12	15
1:A:73:ARG:HD3	1:A:166:ILE:HG21	0.68	1.65	20	1
1:A:157:LYS:O	1:A:160:ARG:HG2	0.67	1.90	14	14
1:A:94:LEU:O	1:A:122:LEU:HD13	0.67	1.90	4	1
1:A:54:ARG:HA	1:A:59:GLN:O	0.67	1.90	10	19
1:A:55:MET:HB3	1:A:119:VAL:HG13	0.67	1.65	8	11
1:A:126:ILE:HG21	1:A:142:MET:CB	0.67	2.20	19	19
1:A:53:MET:SD	1:A:119:VAL:HG11	0.67	2.29	18	13
1:A:46:LYS:O	1:A:107:LYS:HB2	0.66	1.90	8	20
1:A:55:MET:HE2	1:A:121:SER:OG	0.66	1.90	20	1
1:A:53:MET:HE2	1:A:53:MET:H	0.66	1.50	9	7
1:A:127:VAL:HG22	1:A:139:LEU:HD23	0.65	1.67	8	18
1:A:162:SER:O	1:A:166:ILE:HG12	0.65	1.92	17	15
1:A:160:ARG:HG3	1:A:161:ASN:N	0.65	2.05	13	6
1:A:73:ARG:HG3	1:A:74:ASP:N	0.64	2.06	15	2
1:A:164:ILE:O	1:A:167:ILE:HG13	0.64	1.91	4	20
1:A:92:VAL:HG12	1:A:94:LEU:HD13	0.64	1.67	15	2
1:A:46:LYS:NZ	1:A:108:TYR:HD2	0.64	1.91	13	20
1:A:43:ILE:HA	1:A:46:LYS:CE	0.63	2.24	13	20
1:A:134:GLU:O	1:A:157:LYS:HA	0.63	1.93	18	1
1:A:35:GLU:HA	1:A:38:VAL:HB	0.63	1.70	17	20
1:A:61:PHE:CE2	1:A:110:PHE:CE1	0.63	2.87	8	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:124:LYS:H	1:A:171:ILE:CG2	0.62	2.08	10	4
1:A:124:LYS:H	1:A:171:ILE:HG21	0.62	1.55	10	11
1:A:134:GLU:O	1:A:160:ARG:HD2	0.62	1.94	18	1
1:A:154:ALA:HB1	1:A:159:GLU:HB3	0.61	1.69	18	18
1:A:53:MET:HE1	1:A:110:PHE:CD1	0.61	2.30	9	7
1:A:55:MET:HE3	1:A:119:VAL:HG22	0.61	1.71	8	13
1:A:40:LEU:O	1:A:44:TYR:HB2	0.61	1.96	16	2
1:A:173:THR:O	1:A:176:ARG:HB3	0.60	1.97	7	3
1:A:56:LYS:HB2	1:A:144:MET:SD	0.60	2.36	12	3
1:A:105:ASP:C	1:A:106:GLN:HG3	0.60	2.21	17	12
1:A:80:LYS:HD2	1:A:86:LEU:CD2	0.60	2.27	5	11
1:A:164:ILE:O	1:A:168:GLN:HG3	0.60	1.96	3	2
1:A:79:LEU:C	1:A:86:LEU:HD23	0.59	2.22	9	19
1:A:162:SER:O	1:A:166:ILE:HG13	0.59	1.98	5	4
1:A:53:MET:SD	1:A:119:VAL:HG12	0.59	2.38	5	7
1:A:165:GLN:HG2	1:A:166:ILE:HG12	0.59	1.74	16	4
1:A:111:ALA:O	1:A:118:THR:HG21	0.59	1.96	3	16
1:A:73:ARG:HD2	1:A:166:ILE:HD12	0.59	1.73	19	1
1:A:127:VAL:CG2	1:A:167:ILE:HG12	0.59	2.27	9	20
1:A:46:LYS:NZ	1:A:108:TYR:CD2	0.59	2.71	19	20
1:A:124:LYS:HG3	1:A:181:GLY:N	0.59	2.12	1	7
1:A:56:LYS:HB3	1:A:144:MET:SD	0.58	2.38	14	1
1:A:61:PHE:HZ	1:A:97:ILE:HD13	0.58	1.50	1	4
1:A:78:PHE:CB	1:A:86:LEU:HD22	0.58	2.29	11	8
1:A:122:LEU:HD22	1:A:125:LEU:CD1	0.58	2.28	19	11
1:A:161:ASN:HA	1:A:164:ILE:HD12	0.58	1.74	7	15
1:A:53:MET:HE1	1:A:110:PHE:CG	0.58	2.34	8	7
1:A:61:PHE:CD2	1:A:119:VAL:HG21	0.58	2.33	8	1
1:A:43:ILE:HA	1:A:46:LYS:HE2	0.58	1.74	19	1
1:A:182:ILE:HB	1:A:185:GLU:O	0.58	1.99	4	2
1:A:93:LEU:CD1	1:A:122:LEU:HD21	0.57	2.29	6	7
1:A:101:LEU:HA	1:A:109:ILE:O	0.57	1.99	19	20
1:A:93:LEU:HD23	1:A:166:ILE:HG22	0.57	1.76	10	7
1:A:70:LYS:HD3	1:A:95:THR:OG1	0.57	1.99	11	1
1:A:51:SER:O	1:A:110:PHE:HB2	0.57	1.99	6	12
1:A:141:SER:C	1:A:147:PRO:HB3	0.57	2.25	20	14
1:A:44:TYR:CE1	1:A:67:LYS:HD2	0.57	2.35	13	3
1:A:66:LEU:HA	1:A:69:LYS:CD	0.57	2.30	19	1
1:A:44:TYR:O	1:A:63:LYS:HE3	0.57	1.98	3	16
1:A:77:VAL:O	1:A:89:VAL:HG22	0.57	1.99	3	20
1:A:142:MET:HG3	1:A:147:PRO:HG3	0.57	1.76	2	14

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:70:LYS:O	1:A:94:LEU:HA	0.57	2.00	20	15
1:A:129:GLU:HG2	1:A:164:ILE:HD13	0.56	1.77	13	13
1:A:40:LEU:HD11	1:A:94:LEU:HD21	0.56	1.76	19	2
1:A:127:VAL:HG11	1:A:164:ILE:HA	0.56	1.77	7	13
1:A:41:ASN:O	1:A:45:THR:HB	0.56	2.00	16	17
1:A:53:MET:SD	1:A:61:PHE:HB3	0.56	2.41	3	12
1:A:137:LEU:HD12	1:A:138:PHE:N	0.56	2.15	18	20
1:A:59:GLN:OE1	1:A:184:SER:HB3	0.56	2.00	6	1
1:A:69:LYS:CB	1:A:94:LEU:HD23	0.56	2.30	6	1
1:A:126:ILE:HG23	1:A:140:ILE:CB	0.56	2.27	18	19
1:A:73:ARG:NH1	1:A:166:ILE:HB	0.56	2.15	20	1
1:A:126:ILE:CD1	1:A:140:ILE:HD13	0.56	2.31	19	14
1:A:78:PHE:HA	1:A:87:LYS:O	0.56	2.01	8	14
1:A:44:TYR:CE2	1:A:67:LYS:HD2	0.55	2.37	18	14
1:A:55:MET:CE	1:A:119:VAL:HG22	0.55	2.31	8	12
1:A:96:ASP:OD2	1:A:185:GLU:HB2	0.55	2.00	9	1
1:A:35:GLU:O	1:A:39:ARG:HD2	0.55	2.01	4	3
1:A:112:SER:HA	1:A:118:THR:OG1	0.55	2.01	8	10
1:A:79:LEU:HD22	1:A:150:VAL:HG11	0.55	1.78	12	1
1:A:77:VAL:HG12	1:A:154:ALA:HA	0.55	1.78	6	16
1:A:35:GLU:O	1:A:39:ARG:HD3	0.55	2.01	1	6
1:A:168:GLN:HA	1:A:172:ASN:ND2	0.55	2.16	17	7
1:A:171:ILE:CA	1:A:174:LEU:HD12	0.55	2.26	4	9
1:A:124:LYS:HG3	1:A:180:GLU:C	0.54	2.27	12	2
1:A:53:MET:SD	1:A:110:PHE:HB3	0.54	2.42	13	7
1:A:69:LYS:C	1:A:70:LYS:HE3	0.54	2.27	6	2
1:A:53:MET:SD	1:A:53:MET:C	0.54	2.91	15	12
1:A:135:LYS:O	1:A:153:HIS:HA	0.54	2.03	13	5
1:A:53:MET:SD	1:A:119:VAL:CG1	0.54	2.96	6	19
1:A:122:LEU:O	1:A:125:LEU:HD13	0.54	2.03	8	3
1:A:35:GLU:CA	1:A:38:VAL:HB	0.54	2.32	13	20
1:A:36:LYS:HA	1:A:39:ARG:NE	0.54	2.18	1	4
1:A:129:GLU:HG2	1:A:164:ILE:CD1	0.54	2.32	11	11
1:A:43:ILE:HA	1:A:46:LYS:NZ	0.54	2.17	13	19
1:A:96:ASP:C	1:A:122:LEU:HG	0.54	2.28	9	1
1:A:66:LEU:HD21	1:A:99:VAL:HG11	0.53	1.80	13	18
1:A:69:LYS:HG2	1:A:94:LEU:HD23	0.53	1.81	1	2
1:A:56:LYS:HD2	1:A:121:SER:O	0.53	2.04	9	4
1:A:120:ILE:HG23	1:A:141:SER:OG	0.53	2.03	20	6
1:A:135:LYS:HB3	1:A:156:SER:C	0.53	2.28	14	3
1:A:122:LEU:HD13	1:A:171:ILE:CD1	0.53	2.33	6	10

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:36:LYS:HA	1:A:39:ARG:CZ	0.53	2.33	5	3
1:A:66:LEU:HA	1:A:69:LYS:HD2	0.53	1.81	4	15
1:A:48:ASP:HB3	1:A:51:SER:OG	0.53	2.04	6	5
1:A:73:ARG:NH1	1:A:163:TRP:HA	0.53	2.19	20	1
1:A:30:LYS:HD3	1:A:30:LYS:C	0.53	2.29	20	9
1:A:53:MET:C	1:A:53:MET:SD	0.53	2.91	19	1
1:A:94:LEU:O	1:A:122:LEU:HG	0.53	2.04	1	2
1:A:167:ILE:HD12	1:A:168:GLN:N	0.53	2.19	9	16
1:A:44:TYR:CE2	1:A:64:GLU:HA	0.53	2.39	9	2
1:A:126:ILE:HD13	1:A:140:ILE:CD1	0.53	2.34	19	2
1:A:140:ILE:HG12	1:A:149:MET:CB	0.52	2.35	19	14
1:A:61:PHE:CE2	1:A:97:ILE:HG21	0.52	2.40	18	5
1:A:78:PHE:CE1	1:A:88:GLU:HG3	0.52	2.40	8	10
1:A:100:PHE:HZ	1:A:139:LEU:HD12	0.52	1.63	8	13
1:A:70:LYS:HB2	1:A:95:THR:OG1	0.52	2.04	12	4
1:A:56:LYS:HD2	1:A:121:SER:HB3	0.52	1.80	4	4
1:A:125:LEU:HD23	1:A:125:LEU:O	0.52	2.03	4	20
1:A:126:ILE:HD11	1:A:128:ARG:NE	0.52	2.19	2	13
1:A:113:LEU:O	1:A:115:GLN:HG3	0.52	2.05	11	1
1:A:138:PHE:HB2	1:A:140:ILE:HD11	0.52	1.81	9	10
1:A:40:LEU:HD11	1:A:94:LEU:CG	0.52	2.35	8	6
1:A:52:ILE:CD1	1:A:60:MET:HG3	0.52	2.35	16	15
1:A:94:LEU:HD12	1:A:94:LEU:N	0.52	2.20	1	3
1:A:100:PHE:CZ	1:A:139:LEU:HD12	0.52	2.39	4	14
1:A:40:LEU:HD11	1:A:94:LEU:CD2	0.52	2.35	13	3
1:A:120:ILE:N	1:A:120:ILE:HD12	0.52	2.20	1	13
1:A:98:LEU:CD2	1:A:139:LEU:HD23	0.52	2.35	6	2
1:A:134:GLU:CG	1:A:135:LYS:HD2	0.52	2.35	20	1
1:A:56:LYS:CD	1:A:121:SER:HB3	0.51	2.35	4	4
1:A:69:LYS:CG	1:A:94:LEU:HD23	0.51	2.35	13	2
1:A:73:ARG:NH2	1:A:93:LEU:HD22	0.51	2.20	20	1
1:A:55:MET:HE3	1:A:119:VAL:O	0.51	2.06	17	8
1:A:92:VAL:HG12	1:A:94:LEU:CD1	0.51	2.36	19	12
1:A:113:LEU:O	1:A:115:GLN:HG2	0.51	2.05	7	5
1:A:53:MET:N	1:A:53:MET:HE3	0.51	2.21	3	13
1:A:122:LEU:HD23	1:A:123:LYS:N	0.51	2.21	4	1
1:A:78:PHE:HB2	1:A:153:HIS:HB2	0.51	1.82	13	18
1:A:80:LYS:CD	1:A:86:LEU:HD21	0.51	2.33	8	13
1:A:43:ILE:HG23	1:A:46:LYS:NZ	0.51	2.21	6	19
1:A:35:GLU:C	1:A:38:VAL:HB	0.51	2.31	13	3
1:A:47:THR:O	1:A:63:LYS:HD2	0.50	2.06	6	8

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:73:ARG:CD	1:A:166:ILE:HG21	0.50	2.34	20	1
1:A:56:LYS:HD2	1:A:121:SER:OG	0.50	2.06	6	2
1:A:124:LYS:N	1:A:171:ILE:HG21	0.50	2.21	10	1
1:A:122:LEU:HD13	1:A:171:ILE:HD11	0.50	1.83	6	10
1:A:137:LEU:HD21	1:A:139:LEU:HD21	0.50	1.82	17	13
1:A:98:LEU:HD21	1:A:139:LEU:HD13	0.50	1.83	8	4
1:A:134:GLU:CG	1:A:157:LYS:HE3	0.50	2.36	1	1
1:A:171:ILE:HA	1:A:174:LEU:CD1	0.50	2.29	9	4
1:A:125:LEU:HD22	1:A:171:ILE:HG12	0.50	1.83	14	13
1:A:134:GLU:O	1:A:157:LYS:HG3	0.50	2.07	2	2
1:A:140:ILE:HG23	1:A:149:MET:HB3	0.50	1.83	11	6
1:A:102:GLN:O	1:A:109:ILE:HG12	0.50	2.07	7	3
1:A:182:ILE:HB	1:A:185:GLU:OXT	0.50	2.07	17	3
1:A:171:ILE:HD12	1:A:171:ILE:N	0.49	2.22	7	20
1:A:97:ILE:HD12	1:A:99:VAL:HB	0.49	1.84	18	1
1:A:64:GLU:O	1:A:67:LYS:HB2	0.49	2.07	16	2
1:A:111:ALA:O	1:A:113:LEU:HG	0.49	2.08	20	6
1:A:134:GLU:HG2	1:A:135:LYS:N	0.49	2.22	2	2
1:A:140:ILE:HD13	1:A:149:MET:HE3	0.49	1.84	6	2
1:A:179:ASP:CG	1:A:180:GLU:H	0.49	2.15	12	2
1:A:52:ILE:HG22	1:A:110:PHE:CE2	0.49	2.43	8	2
1:A:159:GLU:HA	1:A:162:SER:HB2	0.49	1.85	10	13
1:A:66:LEU:HA	1:A:69:LYS:HD3	0.49	1.85	19	1
1:A:73:ARG:HB3	1:A:93:LEU:HB3	0.49	1.85	15	6
1:A:112:SER:C	1:A:114:ASP:H	0.49	2.15	6	13
1:A:121:SER:OG	1:A:183:PRO:HA	0.49	2.08	3	1
1:A:116:LYS:HB3	1:A:148:GLU:O	0.49	2.07	15	1
1:A:93:LEU:C	1:A:94:LEU:HD12	0.49	2.33	13	2
1:A:134:GLU:O	1:A:160:ARG:HD3	0.49	2.08	6	4
1:A:46:LYS:O	1:A:107:LYS:HD3	0.49	2.08	16	3
1:A:173:THR:HA	1:A:176:ARG:CG	0.49	2.38	18	5
1:A:168:GLN:O	1:A:172:ASN:HB2	0.49	2.08	7	4
1:A:52:ILE:HG12	1:A:60:MET:CE	0.48	2.38	13	14
1:A:69:LYS:HE3	1:A:96:ASP:OD2	0.48	2.08	3	1
1:A:126:ILE:CD1	1:A:140:ILE:HD12	0.48	2.38	11	3
1:A:73:ARG:HG2	1:A:163:TRP:CH2	0.48	2.42	18	2
1:A:57:SER:OG	1:A:183:PRO:HB2	0.48	2.07	20	1
1:A:101:LEU:HB3	1:A:108:TYR:HB3	0.48	1.85	19	17
1:A:135:LYS:HE2	1:A:154:ALA:O	0.48	2.08	9	1
1:A:93:LEU:HD23	1:A:166:ILE:CG2	0.48	2.39	17	10
1:A:96:ASP:HB3	1:A:185:GLU:CD	0.48	2.33	15	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:139:LEU:HD22	1:A:152:VAL:HG21	0.48	1.84	6	1
1:A:56:LYS:CG	1:A:121:SER:HB3	0.48	2.38	17	1
1:A:73:ARG:CZ	1:A:166:ILE:HB	0.48	2.39	20	1
1:A:130:VAL:HG13	1:A:133:GLU:O	0.48	2.08	6	3
1:A:136:GLY:HA2	1:A:153:HIS:CD2	0.48	2.44	20	6
1:A:31:VAL:O	1:A:35:GLU:HG3	0.48	2.09	9	14
1:A:53:MET:HE3	1:A:119:VAL:HG11	0.48	1.85	9	6
1:A:138:PHE:CB	1:A:140:ILE:HD11	0.47	2.38	19	1
1:A:127:VAL:HG22	1:A:139:LEU:CD2	0.47	2.39	4	16
1:A:40:LEU:HD13	1:A:66:LEU:O	0.47	2.08	18	2
1:A:40:LEU:O	1:A:44:TYR:N	0.47	2.47	9	15
1:A:145:THR:HG23	1:A:146:ASP:H	0.47	1.68	13	2
1:A:116:LYS:HB3	1:A:150:VAL:HA	0.47	1.85	19	1
1:A:165:GLN:O	1:A:169:ASP:N	0.47	2.48	6	20
1:A:98:LEU:HB3	1:A:120:ILE:CG1	0.47	2.40	16	7
1:A:100:PHE:CE2	1:A:150:VAL:HG11	0.47	2.45	19	8
1:A:166:ILE:HA	1:A:169:ASP:CB	0.47	2.40	7	3
1:A:83:ALA:HB3	1:A:85:ARG:HG2	0.47	1.87	15	3
1:A:130:VAL:HG11	1:A:133:GLU:HB2	0.47	1.84	18	1
1:A:144:MET:SD	1:A:183:PRO:HB3	0.47	2.49	14	4
1:A:78:PHE:HB2	1:A:153:HIS:CB	0.47	2.40	18	2
1:A:40:LEU:HD11	1:A:94:LEU:HG	0.47	1.86	18	6
1:A:172:ASN:HA	1:A:175:ASN:ND2	0.47	2.25	7	1
1:A:61:PHE:CZ	1:A:65:ASP:HB2	0.46	2.45	18	1
1:A:121:SER:HG	1:A:183:PRO:HA	0.46	1.69	3	1
1:A:142:MET:N	1:A:147:PRO:HB3	0.46	2.25	11	6
1:A:124:LYS:HD3	1:A:181:GLY:N	0.46	2.26	10	1
1:A:69:LYS:HE3	1:A:96:ASP:HB2	0.46	1.86	19	2
1:A:116:LYS:O	1:A:118:THR:HG23	0.46	2.11	3	1
1:A:46:LYS:HD2	1:A:108:TYR:CE2	0.46	2.45	7	5
1:A:125:LEU:H	1:A:125:LEU:HD22	0.46	1.69	8	7
1:A:53:MET:HG3	1:A:119:VAL:HG12	0.46	1.86	14	8
1:A:122:LEU:HD13	1:A:123:LYS:N	0.46	2.25	18	2
1:A:93:LEU:HD11	1:A:122:LEU:HD11	0.46	1.85	20	2
1:A:145:THR:HG23	1:A:146:ASP:N	0.46	2.25	1	2
1:A:168:GLN:HA	1:A:172:ASN:HD22	0.46	1.71	17	3
1:A:104:LYS:HD3	1:A:109:ILE:HD13	0.46	1.87	9	1
1:A:46:LYS:CE	1:A:108:TYR:HD2	0.46	2.23	13	10
1:A:140:ILE:HG22	1:A:142:MET:H	0.46	1.71	6	3
1:A:55:MET:HE2	1:A:119:VAL:O	0.46	2.10	14	2
1:A:79:LEU:O	1:A:86:LEU:HD23	0.46	2.10	5	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:46:LYS:HZ2	1:A:46:LYS:C	0.46	2.19	19	1
1:A:133:GLU:HG3	1:A:153:HIS:CE1	0.45	2.46	3	9
1:A:79:LEU:HA	1:A:151:GLU:O	0.45	2.12	11	2
1:A:79:LEU:HB2	1:A:87:LYS:HG2	0.45	1.88	10	18
1:A:53:MET:HE1	1:A:61:PHE:O	0.45	2.11	19	8
1:A:134:GLU:O	1:A:157:LYS:HG2	0.45	2.11	10	2
1:A:136:GLY:HA2	1:A:153:HIS:HA	0.45	1.88	17	2
1:A:36:LYS:O	1:A:71:LEU:HB2	0.45	2.12	14	2
1:A:126:ILE:HD13	1:A:140:ILE:HD13	0.45	1.89	8	5
1:A:70:LYS:HE3	1:A:70:LYS:N	0.45	2.26	6	1
1:A:134:GLU:HG2	1:A:157:LYS:HG3	0.45	1.88	9	1
1:A:73:ARG:CZ	1:A:163:TRP:CE3	0.45	2.99	20	1
1:A:129:GLU:HG3	1:A:164:ILE:HD13	0.45	1.88	1	1
1:A:166:ILE:HA	1:A:169:ASP:HB3	0.45	1.87	5	2
1:A:115:GLN:OE1	1:A:116:LYS:HE3	0.45	2.12	9	1
1:A:92:VAL:CG1	1:A:94:LEU:HD11	0.45	2.41	1	2
1:A:76:SER:HB3	1:A:88:GLU:HG2	0.45	1.89	15	2
1:A:126:ILE:CG2	1:A:140:ILE:HB	0.45	2.31	11	1
1:A:127:VAL:CG1	1:A:164:ILE:HG23	0.45	2.42	3	2
1:A:43:ILE:HA	1:A:46:LYS:HD3	0.45	1.88	4	7
1:A:157:LYS:C	1:A:157:LYS:HD3	0.45	2.37	10	2
1:A:130:VAL:HG12	1:A:136:GLY:C	0.45	2.37	8	1
1:A:104:LYS:HE2	1:A:109:ILE:CD1	0.45	2.42	19	1
1:A:30:LYS:HD3	1:A:31:VAL:N	0.44	2.27	2	6
1:A:179:ASP:O	1:A:180:GLU:HB2	0.44	2.12	4	2
1:A:125:LEU:HD11	1:A:171:ILE:HD11	0.44	1.89	19	2
1:A:124:LYS:HD2	1:A:180:GLU:HB2	0.44	1.88	13	1
1:A:69:LYS:HG2	1:A:96:ASP:HB3	0.44	1.89	16	1
1:A:56:LYS:HG3	1:A:121:SER:HB3	0.44	1.90	17	1
1:A:40:LEU:O	1:A:44:TYR:CB	0.44	2.66	7	5
1:A:160:ARG:HG3	1:A:161:ASN:H	0.44	1.72	13	1
1:A:116:LYS:HB3	1:A:150:VAL:CA	0.44	2.42	19	1
1:A:35:GLU:O	1:A:38:VAL:HB	0.44	2.13	13	2
1:A:32:ALA:HA	1:A:35:GLU:HB2	0.44	1.90	11	3
1:A:177:ASP:CG	1:A:178:GLU:N	0.44	2.75	2	5
1:A:158:GLU:HG2	1:A:159:GLU:N	0.44	2.27	10	2
1:A:32:ALA:O	1:A:36:LYS:HB3	0.44	2.13	14	2
1:A:73:ARG:HH21	1:A:93:LEU:HD22	0.44	1.72	20	1
1:A:130:VAL:CG1	1:A:133:GLU:HB2	0.44	2.42	18	2
1:A:44:TYR:HE2	1:A:64:GLU:HA	0.44	1.72	16	2
1:A:96:ASP:HB3	1:A:185:GLU:CG	0.44	2.43	20	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:133:GLU:OE1	1:A:136:GLY:HA3	0.44	2.12	18	1
1:A:126:ILE:HG21	1:A:142:MET:HB3	0.44	1.89	6	1
1:A:98:LEU:O	1:A:120:ILE:HG12	0.44	2.13	9	2
1:A:44:TYR:CD2	1:A:67:LYS:HB2	0.44	2.48	19	1
1:A:78:PHE:O	1:A:153:HIS:HB2	0.43	2.12	18	1
1:A:43:ILE:HG12	1:A:46:LYS:HZ3	0.43	1.73	12	2
1:A:52:ILE:HD12	1:A:52:ILE:C	0.43	2.39	18	11
1:A:177:ASP:CG	1:A:178:GLU:H	0.43	2.21	5	4
1:A:122:LEU:CD1	1:A:123:LYS:N	0.43	2.82	18	2
1:A:133:GLU:HG3	1:A:153:HIS:NE2	0.43	2.28	8	1
1:A:130:VAL:HG21	1:A:133:GLU:OE1	0.43	2.13	17	1
1:A:140:ILE:HG22	1:A:141:SER:N	0.43	2.28	16	5
1:A:134:GLU:OE2	1:A:135:LYS:HG3	0.43	2.13	16	1
1:A:94:LEU:O	1:A:122:LEU:HD11	0.43	2.13	2	1
1:A:165:GLN:HA	1:A:168:GLN:HB2	0.43	1.91	3	2
1:A:126:ILE:CD1	1:A:140:ILE:CD1	0.43	2.96	19	1
1:A:165:GLN:HG2	1:A:166:ILE:N	0.43	2.28	20	1
1:A:33:SER:HA	1:A:36:LYS:HG2	0.43	1.89	1	2
1:A:48:ASP:CB	1:A:109:ILE:HG22	0.43	2.44	4	6
1:A:125:LEU:HD22	1:A:125:LEU:H	0.43	1.74	15	6
1:A:171:ILE:HD12	1:A:171:ILE:H	0.43	1.73	18	5
1:A:81:ASN:ND2	1:A:82:ALA:H	0.43	2.12	16	1
1:A:98:LEU:HB3	1:A:120:ILE:HB	0.43	1.91	17	4
1:A:159:GLU:HA	1:A:162:SER:CB	0.43	2.44	4	2
1:A:127:VAL:CB	1:A:167:ILE:HG12	0.43	2.44	6	1
1:A:36:LYS:O	1:A:40:LEU:HB2	0.43	2.14	3	1
1:A:56:LYS:HB3	1:A:144:MET:HE1	0.43	1.89	9	2
1:A:79:LEU:CB	1:A:87:LYS:HG2	0.42	2.44	9	3
1:A:126:ILE:CG2	1:A:142:MET:H	0.42	2.27	17	1
1:A:123:LYS:HG2	1:A:174:LEU:HD13	0.42	1.88	18	1
1:A:56:LYS:HG3	1:A:121:SER:OG	0.42	2.14	20	1
1:A:69:LYS:HG2	1:A:96:ASP:HB2	0.42	1.90	5	2
1:A:38:VAL:O	1:A:42:GLU:HG2	0.42	2.15	7	1
1:A:137:LEU:O	1:A:152:VAL:HB	0.42	2.13	8	2
1:A:38:VAL:HG12	1:A:39:ARG:N	0.42	2.29	17	1
1:A:124:LYS:HD2	1:A:180:GLU:HB3	0.42	1.92	4	1
1:A:52:ILE:HD13	1:A:60:MET:HG3	0.42	1.91	16	1
1:A:142:MET:HG3	1:A:147:PRO:CG	0.42	2.45	2	1
1:A:95:THR:O	1:A:122:LEU:HD11	0.42	2.14	10	2
1:A:69:LYS:HG3	1:A:94:LEU:HB3	0.42	1.90	13	1
1:A:80:LYS:HD3	1:A:153:HIS:CE1	0.42	2.50	18	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:40:LEU:HD21	1:A:94:LEU:HD21	0.42	1.91	1	1
1:A:130:VAL:HG12	1:A:136:GLY:O	0.42	2.14	1	2
1:A:123:LYS:HE2	1:A:179:ASP:O	0.42	2.13	5	1
1:A:173:THR:O	1:A:176:ARG:HB2	0.42	2.15	11	1
1:A:36:LYS:HD3	1:A:71:LEU:O	0.42	2.15	15	1
1:A:33:SER:O	1:A:36:LYS:HG2	0.42	2.14	4	2
1:A:125:LEU:HD23	1:A:125:LEU:C	0.42	2.40	4	1
1:A:73:ARG:HD2	1:A:166:ILE:HG21	0.42	1.92	15	2
1:A:134:GLU:CG	1:A:157:LYS:HG2	0.42	2.45	1	1
1:A:135:LYS:HG2	1:A:157:LYS:N	0.42	2.30	1	1
1:A:94:LEU:C	1:A:96:ASP:H	0.42	2.22	4	1
1:A:79:LEU:O	1:A:86:LEU:HA	0.42	2.15	8	1
1:A:90:GLN:HE21	1:A:90:GLN:HA	0.42	1.75	15	1
1:A:76:SER:HB2	1:A:88:GLU:HG2	0.42	1.92	17	1
1:A:158:GLU:HG3	1:A:159:GLU:N	0.42	2.30	19	1
1:A:43:ILE:HA	1:A:46:LYS:CD	0.41	2.45	4	5
1:A:61:PHE:CZ	1:A:65:ASP:CB	0.41	3.03	15	2
1:A:61:PHE:CZ	1:A:97:ILE:CD1	0.41	3.02	8	1
1:A:102:GLN:HB3	1:A:109:ILE:CG1	0.41	2.44	20	1
1:A:35:GLU:O	1:A:38:VAL:HG12	0.41	2.16	10	1
1:A:130:VAL:HA	1:A:138:PHE:CE2	0.41	2.51	10	1
1:A:48:ASP:HB3	1:A:109:ILE:HG22	0.41	1.91	4	1
1:A:170:THR:HG22	1:A:174:LEU:HD11	0.41	1.93	4	1
1:A:96:ASP:C	1:A:122:LEU:HB2	0.41	2.40	6	1
1:A:46:LYS:NZ	1:A:47:THR:N	0.41	2.68	19	1
1:A:127:VAL:HG12	1:A:164:ILE:HG23	0.41	1.91	20	1
1:A:37:LYS:O	1:A:41:ASN:N	0.41	2.54	13	3
1:A:99:VAL:HB	1:A:119:VAL:HG23	0.41	1.91	3	2
1:A:182:ILE:HD12	1:A:185:GLU:HG2	0.41	1.91	6	1
1:A:39:ARG:O	1:A:42:GLU:HB2	0.41	2.15	18	2
1:A:66:LEU:CD2	1:A:99:VAL:HG11	0.41	2.45	14	2
1:A:55:MET:HB2	1:A:119:VAL:O	0.41	2.16	11	1
1:A:123:LYS:HB2	1:A:182:ILE:HD11	0.41	1.90	16	1
1:A:97:ILE:HG22	1:A:121:SER:HA	0.41	1.92	2	1
1:A:79:LEU:HG	1:A:150:VAL:CG2	0.41	2.45	8	1
1:A:69:LYS:HD3	1:A:94:LEU:HD23	0.41	1.93	9	1
1:A:53:MET:CG	1:A:119:VAL:HG12	0.41	2.45	19	1
1:A:133:GLU:CD	1:A:153:HIS:NE2	0.41	2.79	17	1
1:A:134:GLU:HG2	1:A:135:LYS:HD2	0.41	1.92	20	1
1:A:34:TYR:O	1:A:38:VAL:N	0.41	2.54	8	1
1:A:44:TYR:CD1	1:A:67:LYS:HB2	0.41	2.51	13	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:123:LYS:HE3	1:A:178:GLU:CD	0.41	2.41	4	1
1:A:137:LEU:HD22	1:A:164:ILE:HG13	0.41	1.92	8	1
1:A:161:ASN:O	1:A:165:GLN:HB3	0.41	2.16	11	1
1:A:89:VAL:HG21	1:A:100:PHE:HB3	0.41	1.93	12	1
1:A:98:LEU:N	1:A:120:ILE:O	0.41	2.52	17	2
1:A:135:LYS:HB3	1:A:157:LYS:HA	0.41	1.92	16	1
1:A:50:LYS:N	1:A:50:LYS:HD2	0.41	2.30	10	1
1:A:56:LYS:HD2	1:A:121:SER:CB	0.40	2.46	2	1
1:A:105:ASP:C	1:A:106:GLN:HG2	0.40	2.41	15	1
1:A:37:LYS:HD3	1:A:37:LYS:C	0.40	2.42	16	1
1:A:52:ILE:C	1:A:52:ILE:HD12	0.40	2.41	1	2
1:A:69:LYS:HB3	1:A:94:LEU:HG	0.40	1.92	2	1
1:A:140:ILE:HG12	1:A:149:MET:HB2	0.40	1.94	5	1
1:A:73:ARG:CG	1:A:74:ASP:N	0.40	2.84	14	1
1:A:93:LEU:CD2	1:A:166:ILE:HG22	0.40	2.47	16	1
1:A:105:ASP:HB3	1:A:107:LYS:NZ	0.40	2.31	12	1
1:A:98:LEU:CD2	1:A:139:LEU:HD13	0.40	2.46	17	1
1:A:41:ASN:O	1:A:44:TYR:HB3	0.40	2.16	9	1
1:A:102:GLN:O	1:A:108:TYR:HA	0.40	2.17	9	1
1:A:42:GLU:O	1:A:46:LYS:HG3	0.40	2.16	10	1

6.3 Torsion angles ⓘ

6.3.1 Protein backbone ⓘ

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	155/185 (84%)	129±3 (83±2%)	21±3 (13±2%)	5±2 (3±1%)	4	34
All	All	3100/3700 (84%)	2580 (83%)	414 (13%)	106 (3%)	4	34

All 15 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	122	LEU	15
1	A	147	PRO	15

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Mol	Chain	Res	Type	Models (Total)
1	A	71	LEU	15
1	A	115	GLN	14
1	A	123	LYS	13
1	A	184	SER	7
1	A	179	ASP	6
1	A	55	MET	5
1	A	145	THR	4
1	A	143	GLY	4
1	A	178	GLU	3
1	A	119	VAL	2
1	A	144	MET	1
1	A	142	MET	1
1	A	180	GLU	1

6.3.2 Protein sidechains ⓘ

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	142/168 (85%)	113±3 (79±2%)	29±3 (21±2%)	3	32
All	All	2840/3360 (85%)	2256 (79%)	584 (21%)	3	32

All 62 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	36	LYS	20
1	A	38	VAL	20
1	A	45	THR	20
1	A	46	LYS	20
1	A	47	THR	20
1	A	53	MET	20
1	A	71	LEU	20
1	A	77	VAL	20
1	A	80	LYS	20
1	A	87	LYS	20
1	A	122	LEU	20
1	A	125	LEU	20

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Mol	Chain	Res	Type	Models (Total)
1	A	126	ILE	20
1	A	127	VAL	20
1	A	137	LEU	20
1	A	165	GLN	20
1	A	123	LYS	19
1	A	79	LEU	18
1	A	120	ILE	17
1	A	149	MET	17
1	A	94	LEU	17
1	A	40	LEU	15
1	A	135	LYS	14
1	A	106	GLN	10
1	A	70	LYS	10
1	A	144	MET	8
1	A	93	LEU	7
1	A	134	GLU	7
1	A	140	ILE	7
1	A	65	ASP	7
1	A	30	LYS	6
1	A	56	LYS	6
1	A	92	VAL	6
1	A	117	SER	5
1	A	39	ARG	5
1	A	161	ASN	5
1	A	182	ILE	4
1	A	119	VAL	4
1	A	115	GLN	4
1	A	166	ILE	4
1	A	102	GLN	4
1	A	121	SER	4
1	A	69	LYS	3
1	A	90	GLN	3
1	A	64	GLU	3
1	A	172	ASN	3
1	A	66	LEU	2
1	A	124	LYS	2
1	A	55	MET	2
1	A	158	GLU	2
1	A	180	GLU	2
1	A	73	ARG	2
1	A	107	LYS	1
1	A	49	SER	1

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Mol	Chain	Res	Type	Models (Total)
1	A	176	ARG	1
1	A	133	GLU	1
1	A	160	ARG	1
1	A	155	SER	1
1	A	157	LYS	1
1	A	185	GLU	1
1	A	129	GLU	1
1	A	72	VAL	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 89% for the well-defined parts and 88% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list_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	2281
Number of shifts mapped to atoms	2281
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	11

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction $\pm$ precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	185	-0.23 ± 0.10	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	176	0.13 ± 0.08	None needed (< 0.5 ppm)
$^{13}\text{C}'$	169	-0.09 ± 0.06	None needed (< 0.5 ppm)
^{15}N	175	-0.67 ± 0.20	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 89%, i.e. 1978 atoms were assigned a chemical shift out of a possible 2223. 0 out of 27 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	754/782 (96%)	308/316 (97%)	298/312 (96%)	148/154 (96%)
Sidechain	1130/1336 (85%)	754/863 (87%)	366/418 (88%)	10/55 (18%)

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	Total	¹ H	¹³ C	¹⁵ N
Aromatic	94/105 (90%)	47/51 (92%)	46/49 (94%)	1/5 (20%)
Overall	1978/2223 (89%)	1109/1230 (90%)	710/779 (91%)	159/214 (74%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 88%, i.e. 2281 atoms were assigned a chemical shift out of a possible 2587. 0 out of 34 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	893/928 (96%)	364/375 (97%)	354/370 (96%)	175/183 (96%)
Sidechain	1294/1554 (83%)	863/1004 (86%)	418/490 (85%)	13/60 (22%)
Aromatic	94/105 (90%)	47/51 (92%)	46/49 (94%)	1/5 (20%)
Overall	2281/2587 (88%)	1274/1430 (89%)	818/909 (90%)	189/248 (76%)

7.1.4 Statistically unusual chemical shifts ⓘ

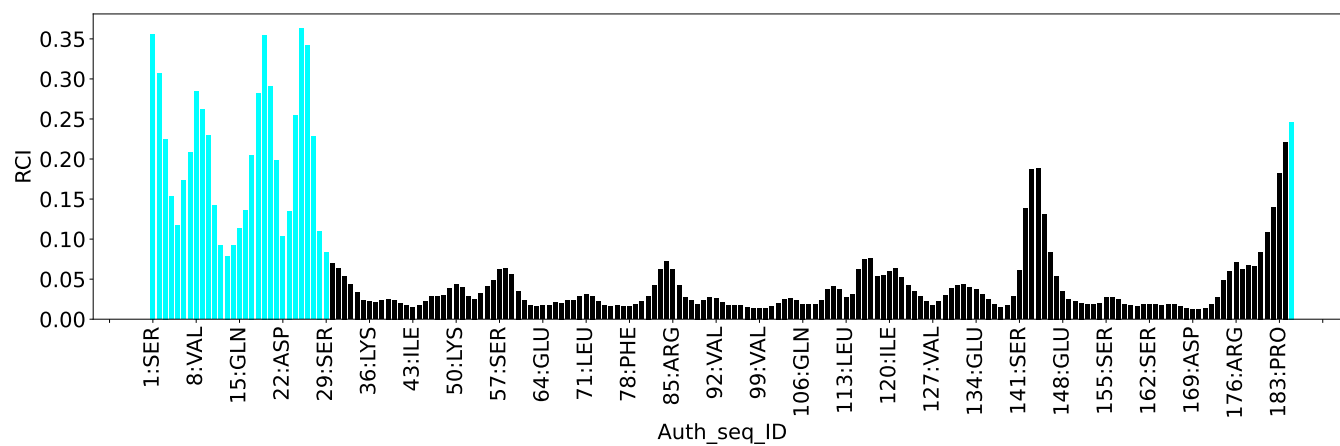
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	108	TYR	CE2	97.44	111.68 – 124.17	-16.4
1	A	108	TYR	CE1	97.44	111.24 – 124.66	-15.3
1	A	34	TYR	CE2	99.75	111.68 – 124.17	-14.6
1	A	44	TYR	CE2	100.43	111.68 – 124.17	-14.0
1	A	34	TYR	CE1	99.75	111.24 – 124.66	-13.6
1	A	44	TYR	CE1	100.43	111.24 – 124.66	-13.1
1	A	153	HIS	CD2	89.40	103.95 – 136.66	-9.4
1	A	163	TRP	CH2	133.48	116.19 – 131.43	6.3
1	A	132	HIS	CE1	150.91	126.08 – 149.12	5.8
1	A	132	HIS	CD2	101.76	103.95 – 136.66	-5.7
1	A	74	ASP	HA	6.21	3.04 – 6.12	5.3

7.1.5 Random Coil Index (RCI) plots ⓘ

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:



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	3564
Intra-residue ($ i-j =0$)	1528
Sequential ($ i-j =1$)	589
Medium range ($ i-j >1$ and $ i-j <5$)	424
Long range ($ i-j \geq 5$)	996
Inter-chain	0
Hydrogen bond restraints	27
Disulfide bond restraints	0
Total dihedral-angle restraints	235
Number of unmapped restraints	0
Number of restraints per residue	20.5
Number of long range restraints per residue ¹	5.5

¹Long 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)	173.8	0.2
0.2-0.5 (Medium)	374.9	0.5
>0.5 (Large)	459.5	4.89

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

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

Bins (°)	Average number of violations per model	Max (°)
1.0-10.0 (Small)	17.9	9.3
10.0-20.0 (Medium)	0.1	11.76
>20.0 (Large)	0.1	42.65

9 Distance violation analysis ⓘ

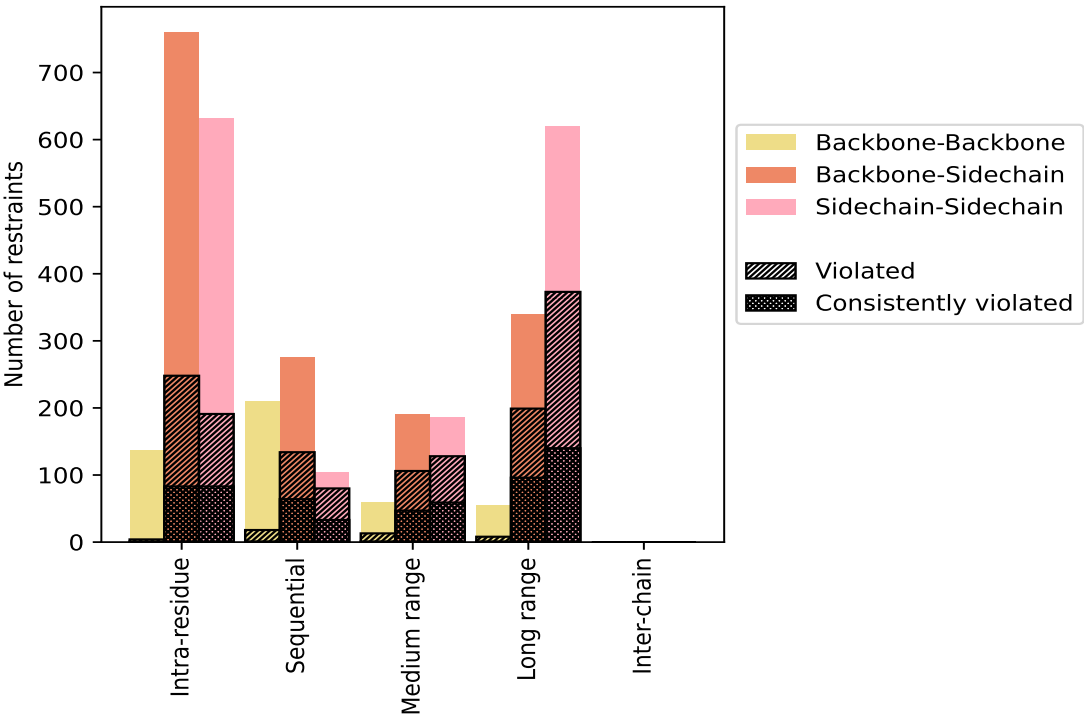
9.1 Summary of distance violations ⓘ

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.

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue (i-j =0)	1528	42.9	443	29.0	12.4	167	10.9	4.7
Backbone-Backbone	137	3.8	4	2.9	0.1	1	0.7	0.0
Backbone-Sidechain	760	21.3	248	32.6	7.0	83	10.9	2.3
Sidechain-Sidechain	631	17.7	191	30.3	5.4	83	13.2	2.3
Sequential (i-j =1)	589	16.5	232	39.4	6.5	98	16.6	2.7
Backbone-Backbone	210	5.9	18	8.6	0.5	1	0.5	0.0
Backbone-Sidechain	275	7.7	134	48.7	3.8	64	23.3	1.8
Sidechain-Sidechain	104	2.9	80	76.9	2.2	33	31.7	0.9
Medium range (i-j >1 & i-j <5)	424	11.9	236	55.7	6.6	100	23.6	2.8
Backbone-Backbone	59	1.7	13	22.0	0.4	1	1.7	0.0
Backbone-Sidechain	179	5.0	95	53.1	2.7	40	22.3	1.1
Sidechain-Sidechain	186	5.2	128	68.8	3.6	59	31.7	1.7
Long range (i-j ≥5)	996	27.9	564	56.6	15.8	224	22.5	6.3
Backbone-Backbone	54	1.5	8	14.8	0.2	1	1.9	0.0
Backbone-Sidechain	323	9.1	183	56.7	5.1	83	25.7	2.3
Sidechain-Sidechain	619	17.4	373	60.3	10.5	140	22.6	3.9
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	27	0.8	27	100.0	0.8	20	74.1	0.6
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	3564	100.0	1502	42.1	42.1	609	17.1	17.1
Backbone-Backbone	460	12.9	43	9.3	1.2	4	0.9	0.1
Backbone-Sidechain	1564	43.9	687	43.9	19.3	290	18.5	8.1
Sidechain-Sidechain	1540	43.2	772	50.1	21.7	315	20.5	8.8

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 [i](#)



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 [i](#)

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	305	160	173	409	0	1047	0.68	4.87	0.66	0.46
2	296	162	165	390	0	1013	0.66	4.85	0.65	0.44
3	282	159	170	396	0	1007	0.68	4.8	0.65	0.46
4	295	162	166	389	0	1012	0.68	4.73	0.66	0.47
5	294	156	170	396	0	1016	0.67	4.8	0.65	0.47
6	295	155	168	403	0	1021	0.67	4.89	0.65	0.46
7	295	162	169	397	0	1023	0.67	4.86	0.65	0.45
8	286	156	175	402	0	1019	0.68	4.69	0.66	0.46
9	291	156	167	397	0	1011	0.68	4.86	0.66	0.47
10	298	158	166	404	0	1026	0.67	4.72	0.65	0.44

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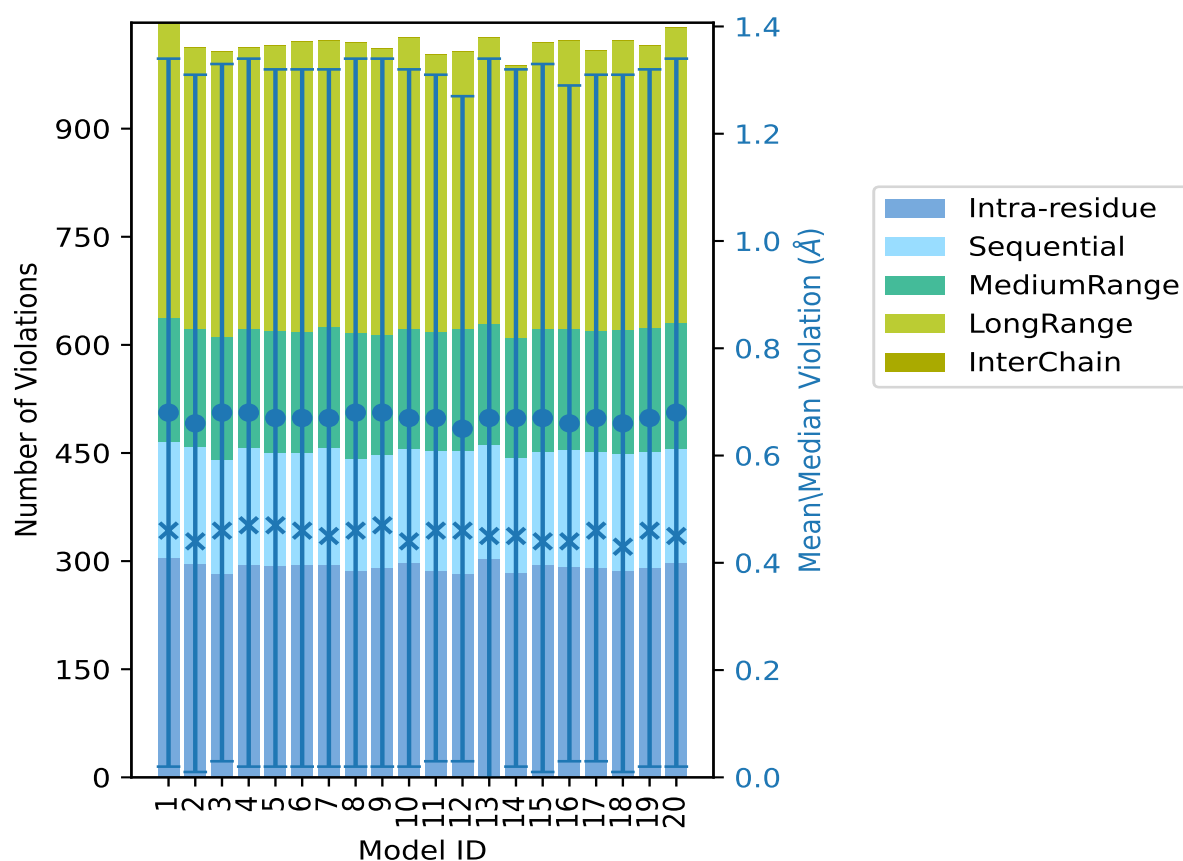
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Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
11	287	166	165	385	0	1003	0.67	4.78	0.64	0.46
12	282	171	169	385	0	1007	0.65	4.83	0.62	0.46
13	304	157	169	397	0	1027	0.67	4.86	0.67	0.45
14	284	159	167	378	0	988	0.67	4.81	0.65	0.45
15	295	157	171	397	0	1020	0.67	4.84	0.66	0.44
16	292	162	169	400	0	1023	0.66	4.82	0.63	0.44
17	291	161	168	388	0	1008	0.67	4.89	0.64	0.46
18	286	163	172	402	0	1023	0.66	4.77	0.65	0.43
19	290	162	172	391	0	1015	0.67	4.77	0.65	0.46
20	298	158	175	410	0	1041	0.68	4.82	0.66	0.45

¹Intra-residue restraints, ²Sequential restraints, ³Medium range restraints, ⁴Long range restraints,

⁵Inter-chain restraints, ⁶Standard 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

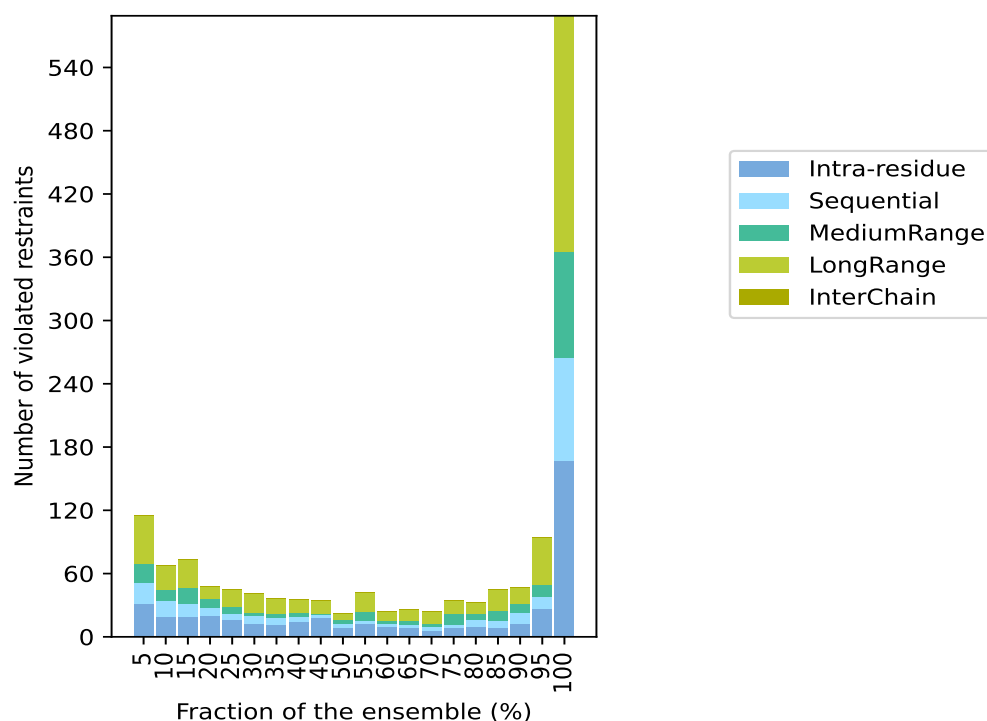
Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 2062(IR:1085, SQ:357, MR:188, LR:432, IC:0) restraints are 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	%
32	19	18	46	0	115	1	5.0
19	15	11	23	0	68	2	10.0
19	12	16	26	0	73	3	15.0
20	8	8	12	0	48	4	20.0
16	6	6	17	0	45	5	25.0
12	8	3	18	0	41	6	30.0
12	6	4	14	0	36	7	35.0
14	5	4	12	0	35	8	40.0
18	3	1	12	0	34	9	45.0
9	4	3	6	0	22	10	50.0
13	2	9	18	0	42	11	55.0
10	3	2	9	0	24	12	60.0
9	3	3	11	0	26	13	65.0
6	4	2	12	0	24	14	70.0
9	2	11	12	0	34	15	75.0
10	6	6	11	0	33	16	80.0
9	6	10	20	0	45	17	85.0
12	11	8	16	0	47	18	90.0
27	11	11	45	0	94	19	95.0
167	98	100	224	0	589	20	100.0

¹Intra-residue restraints, ²Sequential restraints, ³Medium range restraints, ⁴Long range restraints,

⁵Inter-chain restraints, ⁶ Number of models with violations

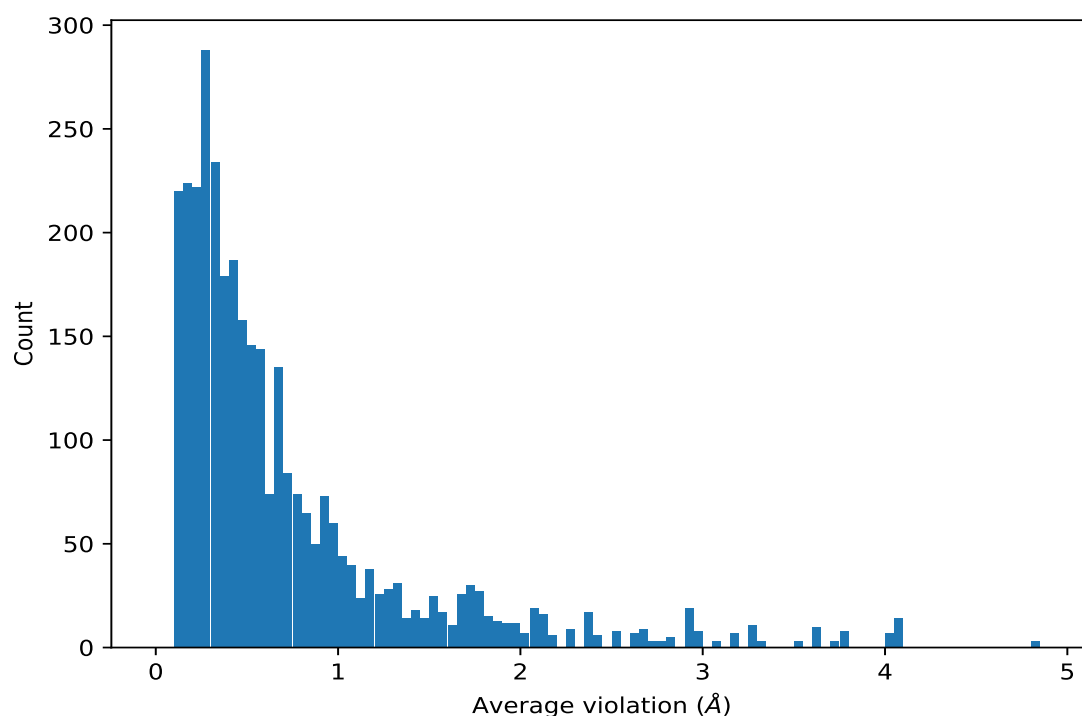
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



9.4 Most violated distance restraints in the ensemble [i](#)

9.4.1 Histogram : Distribution of mean distance violations [i](#)

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 [i](#)

The following table provides the mean and the standard deviation of the violation 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)
(1,3382)	1:127:A:VAL:HG12	1:125:A:LEU:HB3	20	4.81	0.05	4.82
(1,3382)	1:127:A:VAL:HG13	1:125:A:LEU:HB3	20	4.81	0.05	4.82
(1,3382)	1:127:A:VAL:HG11	1:125:A:LEU:HB3	20	4.81	0.05	4.82
(1,3469)	1:138:A:PHE:HD2	1:137:A:LEU:HD22	20	4.09	0.07	4.12
(1,3469)	1:138:A:PHE:HD1	1:137:A:LEU:HD23	20	4.09	0.07	4.12
(1,3469)	1:138:A:PHE:HD1	1:137:A:LEU:HD22	20	4.09	0.07	4.12
(1,3469)	1:138:A:PHE:HD2	1:137:A:LEU:HD21	20	4.09	0.07	4.12
(1,3469)	1:138:A:PHE:HD1	1:137:A:LEU:HD21	20	4.09	0.07	4.12
(1,3469)	1:138:A:PHE:HD2	1:137:A:LEU:HD23	20	4.09	0.07	4.12
(1,490)	1:130:A:VAL:HG22	1:129:A:GLU:HG3	20	4.06	0.2	4.11
(1,490)	1:130:A:VAL:HG21	1:129:A:GLU:HG2	20	4.06	0.2	4.11
(1,490)	1:130:A:VAL:HG23	1:129:A:GLU:HG2	20	4.06	0.2	4.11
(1,490)	1:130:A:VAL:HG23	1:129:A:GLU:HG3	20	4.06	0.2	4.11
(1,490)	1:130:A:VAL:HG21	1:129:A:GLU:HG3	20	4.06	0.2	4.11
(1,490)	1:130:A:VAL:HG22	1:129:A:GLU:HG2	20	4.06	0.2	4.11
(1,490)	1:130:A:VAL:HG23	1:135:A:LYS:HB3	20	4.06	0.2	4.11

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,490)	1:130:A:VAL:HG22	1:135:A:LYS:HB3	20	4.06	0.2	4.11
(1,1754)	1:99:A:VAL:HG22	1:92:A:VAL:HG13	20	4.02	0.1	4.02
(1,1754)	1:99:A:VAL:HG21	1:92:A:VAL:HG11	20	4.02	0.1	4.02
(1,1754)	1:99:A:VAL:HG21	1:92:A:VAL:HG12	20	4.02	0.1	4.02
(1,1754)	1:99:A:VAL:HG23	1:92:A:VAL:HG13	20	4.02	0.1	4.02
(1,1754)	1:99:A:VAL:HG21	1:92:A:VAL:HG13	20	4.02	0.1	4.02
(1,1754)	1:99:A:VAL:HG23	1:92:A:VAL:HG12	20	4.02	0.1	4.02
(1,1754)	1:99:A:VAL:HG22	1:92:A:VAL:HG12	20	4.02	0.1	4.02
(1,1951)	1:66:A:LEU:HD12	1:92:A:VAL:HG13	20	3.79	0.06	3.8
(1,1951)	1:66:A:LEU:HD11	1:92:A:VAL:HG11	20	3.79	0.06	3.8
(1,1951)	1:66:A:LEU:HD12	1:92:A:VAL:HG12	20	3.79	0.06	3.8
(1,1951)	1:66:A:LEU:HD13	1:92:A:VAL:HG12	20	3.79	0.06	3.8
(1,1951)	1:66:A:LEU:HD13	1:92:A:VAL:HG13	20	3.79	0.06	3.8
(1,1951)	1:66:A:LEU:HD13	1:92:A:VAL:HG11	20	3.79	0.06	3.8
(1,1951)	1:66:A:LEU:HD12	1:92:A:VAL:HG11	20	3.79	0.06	3.8
(1,1951)	1:66:A:LEU:HD11	1:92:A:VAL:HG13	20	3.79	0.06	3.8
(1,2623)	1:113:A:LEU:HA	1:79:A:LEU:HD13	20	3.74	0.73	3.9
(1,2623)	1:113:A:LEU:HA	1:79:A:LEU:HD11	20	3.74	0.73	3.9
(1,2623)	1:113:A:LEU:HA	1:79:A:LEU:HD12	20	3.74	0.73	3.9
(1,2059)	1:125:A:LEU:HD12	1:127:A:VAL:HG12	20	3.61	0.15	3.66
(1,2059)	1:125:A:LEU:HD13	1:127:A:VAL:HG13	20	3.61	0.15	3.66
(1,2059)	1:125:A:LEU:HD13	1:127:A:VAL:HG12	20	3.61	0.15	3.66
(1,2059)	1:125:A:LEU:HD11	1:127:A:VAL:HG11	20	3.61	0.15	3.66
(1,2059)	1:125:A:LEU:HD12	1:127:A:VAL:HG13	20	3.61	0.15	3.66
(1,2059)	1:125:A:LEU:HD12	1:127:A:VAL:HG11	20	3.61	0.15	3.66
(1,2059)	1:125:A:LEU:HD13	1:127:A:VAL:HG11	20	3.61	0.15	3.66
(1,3234)	1:125:A:LEU:HD22	1:98:A:LEU:H	20	3.61	0.1	3.63
(1,3234)	1:125:A:LEU:HD23	1:98:A:LEU:H	20	3.61	0.1	3.63
(1,3234)	1:125:A:LEU:HD21	1:98:A:LEU:H	20	3.61	0.1	3.63
(1,2606)	1:28:A:ASP:HA	1:31:A:VAL:HG23	20	3.51	0.1	3.54
(1,2606)	1:28:A:ASP:HA	1:31:A:VAL:HG22	20	3.51	0.1	3.54
(1,2606)	1:28:A:ASP:HA	1:31:A:VAL:HG21	20	3.51	0.1	3.54
(1,3460)	1:130:A:VAL:HG11	1:132:A:HIS:HE1	20	3.32	0.17	3.31
(1,3460)	1:130:A:VAL:HG12	1:132:A:HIS:HE1	20	3.32	0.17	3.31
(1,3460)	1:130:A:VAL:HG13	1:132:A:HIS:HE1	20	3.32	0.17	3.31
(1,1837)	1:92:A:VAL:HG23	1:66:A:LEU:HD12	20	3.26	0.09	3.26
(1,1837)	1:92:A:VAL:HG21	1:66:A:LEU:HD11	20	3.26	0.09	3.26
(1,1837)	1:92:A:VAL:HG22	1:66:A:LEU:HD12	20	3.26	0.09	3.26
(1,1837)	1:92:A:VAL:HG22	1:66:A:LEU:HD11	20	3.26	0.09	3.26
(1,1837)	1:92:A:VAL:HG23	1:66:A:LEU:HD13	20	3.26	0.09	3.26
(1,1837)	1:92:A:VAL:HG22	1:66:A:LEU:HD13	20	3.26	0.09	3.26
(1,1837)	1:92:A:VAL:HG21	1:66:A:LEU:HD12	20	3.26	0.09	3.26

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1837)	1:92:A:VAL:HG21	1:66:A:LEU:HD13	20	3.26	0.09	3.26
(1,3255)	1:99:A:VAL:HG22	1:94:A:LEU:HB2	20	3.25	0.28	3.32
(1,3255)	1:99:A:VAL:HG21	1:94:A:LEU:HB2	20	3.25	0.28	3.32
(1,3255)	1:99:A:VAL:HG23	1:94:A:LEU:HB2	20	3.25	0.28	3.32
(1,1721)	1:154:A:ALA:HB3	1:137:A:LEU:HD12	20	3.18	0.18	3.18
(1,1721)	1:154:A:ALA:HB1	1:137:A:LEU:HD12	20	3.18	0.18	3.18
(1,1721)	1:154:A:ALA:HB1	1:137:A:LEU:HD11	20	3.18	0.18	3.18
(1,1721)	1:154:A:ALA:HB2	1:137:A:LEU:HD11	20	3.18	0.18	3.18
(1,1721)	1:154:A:ALA:HB3	1:137:A:LEU:HD13	20	3.18	0.18	3.18
(1,1721)	1:154:A:ALA:HB2	1:137:A:LEU:HD13	20	3.18	0.18	3.18
(1,1721)	1:154:A:ALA:HB3	1:137:A:LEU:HD11	20	3.18	0.18	3.18
(1,3223)	1:79:A:LEU:HD21	1:152:A:VAL:H	20	3.08	0.53	3.2
(1,3223)	1:79:A:LEU:HD22	1:152:A:VAL:H	20	3.08	0.53	3.2
(1,3223)	1:79:A:LEU:HD23	1:152:A:VAL:H	20	3.08	0.53	3.2
(1,1704)	1:92:A:VAL:HG13	1:101:A:LEU:HD21	20	2.98	0.1	3.0
(1,1704)	1:92:A:VAL:HG11	1:101:A:LEU:HD22	20	2.98	0.1	3.0
(1,1704)	1:92:A:VAL:HG12	1:101:A:LEU:HD22	20	2.98	0.1	3.0
(1,1704)	1:92:A:VAL:HG13	1:101:A:LEU:HD23	20	2.98	0.1	3.0
(1,1704)	1:92:A:VAL:HG11	1:101:A:LEU:HD21	20	2.98	0.1	3.0
(1,1704)	1:92:A:VAL:HG12	1:101:A:LEU:HD23	20	2.98	0.1	3.0
(1,1704)	1:92:A:VAL:HG11	1:101:A:LEU:HD23	20	2.98	0.1	3.0
(1,1704)	1:92:A:VAL:HG12	1:101:A:LEU:HD21	20	2.98	0.1	3.0
(1,1982)	1:40:A:LEU:HD13	1:92:A:VAL:HG23	20	2.92	0.09	2.91
(1,1982)	1:40:A:LEU:HD12	1:92:A:VAL:HG21	20	2.92	0.09	2.91
(1,1982)	1:40:A:LEU:HD13	1:92:A:VAL:HG22	20	2.92	0.09	2.91
(1,1982)	1:40:A:LEU:HD12	1:92:A:VAL:HG22	20	2.92	0.09	2.91
(1,1982)	1:40:A:LEU:HD11	1:92:A:VAL:HG23	20	2.92	0.09	2.91
(1,1982)	1:40:A:LEU:HD12	1:92:A:VAL:HG23	20	2.92	0.09	2.91
(1,1982)	1:40:A:LEU:HD13	1:92:A:VAL:HG21	20	2.92	0.09	2.91
(1,1982)	1:40:A:LEU:HD11	1:92:A:VAL:HG21	20	2.92	0.09	2.91
(1,3035)	1:97:A:ILE:HG12	1:99:A:VAL:HG22	20	2.91	0.08	2.92
(1,3035)	1:97:A:ILE:HG12	1:99:A:VAL:HG21	20	2.91	0.08	2.92
(1,3035)	1:97:A:ILE:HG12	1:99:A:VAL:HG23	20	2.91	0.08	2.92
(1,1793)	1:113:A:LEU:HD21	1:79:A:LEU:HD11	20	2.91	0.57	3.0
(1,1793)	1:113:A:LEU:HD22	1:79:A:LEU:HD12	20	2.91	0.57	3.0
(1,1793)	1:113:A:LEU:HD23	1:79:A:LEU:HD11	20	2.91	0.57	3.0
(1,1793)	1:113:A:LEU:HD22	1:79:A:LEU:HD11	20	2.91	0.57	3.0
(1,1793)	1:113:A:LEU:HD22	1:79:A:LEU:HD13	20	2.91	0.57	3.0
(1,1793)	1:113:A:LEU:HD21	1:79:A:LEU:HD13	20	2.91	0.57	3.0
(1,1793)	1:113:A:LEU:HD23	1:79:A:LEU:HD13	20	2.91	0.57	3.0
(1,1793)	1:113:A:LEU:HD23	1:79:A:LEU:HD12	20	2.91	0.57	3.0
(1,1800)	1:127:A:VAL:HG12	1:125:A:LEU:HG	20	2.75	0.08	2.76

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1800)	1:127:A:VAL:HG13	1:125:A:LEU:HG	20	2.75	0.08	2.76
(1,1800)	1:127:A:VAL:HG11	1:125:A:LEU:HG	20	2.75	0.08	2.76
(1,1874)	1:66:A:LEU:HD22	1:65:A:ASP:HB3	20	2.71	0.35	2.55
(1,1874)	1:66:A:LEU:HD23	1:65:A:ASP:HB3	20	2.71	0.35	2.55
(1,1874)	1:66:A:LEU:HD21	1:65:A:ASP:HB3	20	2.71	0.35	2.55
(1,1789)	1:125:A:LEU:HD22	1:93:A:LEU:HD13	20	2.66	0.13	2.65
(1,1789)	1:125:A:LEU:HD22	1:93:A:LEU:HD12	20	2.66	0.13	2.65
(1,1789)	1:125:A:LEU:HD23	1:93:A:LEU:HD11	20	2.66	0.13	2.65
(1,1789)	1:125:A:LEU:HD21	1:93:A:LEU:HD11	20	2.66	0.13	2.65
(1,1789)	1:125:A:LEU:HD23	1:93:A:LEU:HD13	20	2.66	0.13	2.65
(1,1789)	1:125:A:LEU:HD21	1:93:A:LEU:HD13	20	2.66	0.13	2.65
(1,1789)	1:125:A:LEU:HD23	1:93:A:LEU:HD12	20	2.66	0.13	2.65
(1,1789)	1:125:A:LEU:HD21	1:93:A:LEU:HD12	20	2.66	0.13	2.65
(1,1789)	1:125:A:LEU:HD22	1:93:A:LEU:HD11	20	2.66	0.13	2.65
(1,2262)	1:149:A:MET:HB2	1:147:A:PRO:HB3	20	2.64	0.12	2.66
(1,1807)	1:127:A:VAL:HG22	1:168:A:GLN:HG3	20	2.61	0.76	2.24
(1,1807)	1:127:A:VAL:HG23	1:168:A:GLN:HG3	20	2.61	0.76	2.24
(1,1807)	1:127:A:VAL:HG21	1:168:A:GLN:HG3	20	2.61	0.76	2.24
(1,2121)	1:137:A:LEU:HD12	1:160:A:ARG:HB3	20	2.6	0.41	2.64
(1,2121)	1:137:A:LEU:HD11	1:160:A:ARG:HB3	20	2.6	0.41	2.64
(1,2121)	1:137:A:LEU:HD13	1:160:A:ARG:HB3	20	2.6	0.41	2.64
(1,105)	1:120:A:ILE:HG21	1:125:A:LEU:HD21	20	2.52	0.16	2.47
(1,105)	1:120:A:ILE:HG21	1:125:A:LEU:HD23	20	2.52	0.16	2.47
(1,105)	1:120:A:ILE:HG21	1:125:A:LEU:HD22	20	2.52	0.16	2.47
(1,105)	1:120:A:ILE:HG22	1:125:A:LEU:HD22	20	2.52	0.16	2.47
(1,105)	1:120:A:ILE:HG22	1:125:A:LEU:HD21	20	2.52	0.16	2.47
(1,105)	1:120:A:ILE:HG23	1:125:A:LEU:HD21	20	2.52	0.16	2.47
(1,105)	1:120:A:ILE:HG23	1:125:A:LEU:HD22	20	2.52	0.16	2.47
(1,2999)	1:29:A:SER:HB3	1:21:A:LYS:HB2	20	2.51	0.51	2.64
(1,3168)	1:31:A:VAL:HG11	1:34:A:TYR:HE2	20	2.44	0.12	2.46
(1,3168)	1:31:A:VAL:HG11	1:34:A:TYR:HE1	20	2.44	0.12	2.46
(1,3168)	1:31:A:VAL:HG13	1:34:A:TYR:HE1	20	2.44	0.12	2.46
(1,3168)	1:31:A:VAL:HG12	1:34:A:TYR:HE1	20	2.44	0.12	2.46
(1,3168)	1:31:A:VAL:HG12	1:34:A:TYR:HE2	20	2.44	0.12	2.46
(1,3168)	1:31:A:VAL:HG13	1:34:A:TYR:HE2	20	2.44	0.12	2.46
(1,3167)	1:34:A:TYR:HB2	1:31:A:VAL:HG11	20	2.4	0.05	2.4
(1,3167)	1:34:A:TYR:HB2	1:31:A:VAL:HG13	20	2.4	0.05	2.4
(1,3167)	1:34:A:TYR:HB2	1:31:A:VAL:HG12	20	2.4	0.05	2.4
(1,1545)	1:120:A:ILE:HD13	1:150:A:VAL:HG23	20	2.38	0.48	2.46
(1,1545)	1:120:A:ILE:HD11	1:150:A:VAL:HG23	20	2.38	0.48	2.46
(1,1545)	1:120:A:ILE:HD12	1:150:A:VAL:HG23	20	2.38	0.48	2.46
(1,1545)	1:120:A:ILE:HD12	1:150:A:VAL:HG21	20	2.38	0.48	2.46

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1545)	1:120:A:ILE:HD13	1:150:A:VAL:HG22	20	2.38	0.48	2.46
(1,1545)	1:120:A:ILE:HD12	1:150:A:VAL:HG22	20	2.38	0.48	2.46
(1,1978)	1:71:A:LEU:HD21	1:92:A:VAL:HG23	20	2.35	0.12	2.37
(1,1978)	1:71:A:LEU:HD23	1:92:A:VAL:HG23	20	2.35	0.12	2.37
(1,1978)	1:71:A:LEU:HD23	1:92:A:VAL:HG22	20	2.35	0.12	2.37
(1,1978)	1:71:A:LEU:HD22	1:92:A:VAL:HG21	20	2.35	0.12	2.37
(1,1978)	1:71:A:LEU:HD22	1:92:A:VAL:HG22	20	2.35	0.12	2.37
(1,1978)	1:71:A:LEU:HD21	1:92:A:VAL:HG22	20	2.35	0.12	2.37
(1,1978)	1:71:A:LEU:HD21	1:92:A:VAL:HG21	20	2.35	0.12	2.37
(1,1978)	1:71:A:LEU:HD22	1:92:A:VAL:HG23	20	2.35	0.12	2.37
(1,3024)	1:35:A:GLU:HA	1:31:A:VAL:HG11	20	2.28	0.05	2.26
(1,3024)	1:35:A:GLU:HA	1:31:A:VAL:HG13	20	2.28	0.05	2.26
(1,3024)	1:35:A:GLU:HA	1:31:A:VAL:HG12	20	2.28	0.05	2.26
(1,1729)	1:31:A:VAL:HG11	1:35:A:GLU:HG2	20	2.26	0.43	2.44
(1,1729)	1:31:A:VAL:HG13	1:35:A:GLU:HG2	20	2.26	0.43	2.44
(1,1729)	1:31:A:VAL:HG12	1:35:A:GLU:HG2	20	2.26	0.43	2.44
(1,1765)	1:99:A:VAL:HG13	1:110:A:PHE:HD1	20	2.18	0.07	2.16
(1,1765)	1:99:A:VAL:HG12	1:110:A:PHE:HD1	20	2.18	0.07	2.16
(1,1765)	1:99:A:VAL:HG11	1:110:A:PHE:HD1	20	2.18	0.07	2.16
(1,2923)	1:127:A:VAL:HG22	1:164:A:ILE:HB	20	2.14	0.08	2.15
(1,2923)	1:127:A:VAL:HG23	1:164:A:ILE:HB	20	2.14	0.08	2.15
(1,2923)	1:127:A:VAL:HG21	1:164:A:ILE:HB	20	2.14	0.08	2.15
(1,1880)	1:66:A:LEU:HD21	1:61:A:PHE:HD1	20	2.1	0.23	2.04
(1,1880)	1:66:A:LEU:HD22	1:61:A:PHE:HD1	20	2.1	0.23	2.04
(1,1880)	1:66:A:LEU:HD23	1:61:A:PHE:HD1	20	2.1	0.23	2.04
(1,1880)	1:66:A:LEU:HD22	1:61:A:PHE:HD2	20	2.1	0.23	2.04
(1,1651)	1:131:A:ALA:HB3	1:130:A:VAL:HG12	20	2.1	0.07	2.08
(1,1651)	1:131:A:ALA:HB1	1:130:A:VAL:HG13	20	2.1	0.07	2.08
(1,1651)	1:131:A:ALA:HB2	1:130:A:VAL:HG11	20	2.1	0.07	2.08
(1,1651)	1:131:A:ALA:HB1	1:130:A:VAL:HG12	20	2.1	0.07	2.08
(1,1651)	1:131:A:ALA:HB2	1:130:A:VAL:HG13	20	2.1	0.07	2.08
(1,1651)	1:131:A:ALA:HB1	1:130:A:VAL:HG11	20	2.1	0.07	2.08
(1,1651)	1:131:A:ALA:HB3	1:130:A:VAL:HG11	20	2.1	0.07	2.08
(1,1651)	1:131:A:ALA:HB3	1:130:A:VAL:HG13	20	2.1	0.07	2.08
(1,1651)	1:131:A:ALA:HB2	1:130:A:VAL:HG12	20	2.1	0.07	2.08
(1,2389)	1:151:A:GLU:HG3	1:150:A:VAL:HG12	20	2.06	0.55	2.06
(1,2389)	1:151:A:GLU:HG3	1:150:A:VAL:HG13	20	2.06	0.55	2.06
(1,2389)	1:151:A:GLU:HG3	1:150:A:VAL:HG11	20	2.06	0.55	2.06
(1,1953)	1:66:A:LEU:HD13	1:40:A:LEU:HD23	20	2.06	0.11	2.06
(1,1953)	1:66:A:LEU:HD12	1:40:A:LEU:HD22	20	2.06	0.11	2.06
(1,1953)	1:66:A:LEU:HD13	1:40:A:LEU:HD21	20	2.06	0.11	2.06
(1,1953)	1:66:A:LEU:HD13	1:40:A:LEU:HD22	20	2.06	0.11	2.06

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1953)	1:66:A:LEU:HD12	1:40:A:LEU:HD23	20	2.06	0.11	2.06
(1,1953)	1:66:A:LEU:HD11	1:40:A:LEU:HD21	20	2.06	0.11	2.06
(1,1953)	1:66:A:LEU:HD11	1:40:A:LEU:HD23	20	2.06	0.11	2.06
(1,1953)	1:66:A:LEU:HD11	1:40:A:LEU:HD22	20	2.06	0.11	2.06
(1,3279)	1:92:A:VAL:HG11	1:91:A:ALA:H	20	2.03	0.06	2.02
(1,3279)	1:92:A:VAL:HG12	1:91:A:ALA:H	20	2.03	0.06	2.02
(1,3279)	1:92:A:VAL:HG13	1:91:A:ALA:H	20	2.03	0.06	2.02
(1,220)	1:42:A:GLU:HB3	1:38:A:VAL:HG13	20	2.02	0.12	2.0
(1,220)	1:42:A:GLU:HB3	1:38:A:VAL:HG11	20	2.02	0.12	2.0
(1,220)	1:42:A:GLU:HB3	1:38:A:VAL:HG12	20	2.02	0.12	2.0
(1,2031)	1:124:A:LYS:HG3	1:123:A:LYS:HD3	20	2.01	0.59	2.28
(1,2461)	1:96:A:ASP:HB2	1:185:A:GLU:HB3	20	1.98	0.73	2.21
(1,921)	1:31:A:VAL:H	1:31:A:VAL:HG22	20	1.93	0.01	1.93
(1,921)	1:31:A:VAL:H	1:31:A:VAL:HG21	20	1.93	0.01	1.93
(1,921)	1:31:A:VAL:H	1:31:A:VAL:HG23	20	1.93	0.01	1.93
(1,1702)	1:92:A:VAL:HG13	1:101:A:LEU:HD12	20	1.91	0.09	1.93
(1,1702)	1:92:A:VAL:HG11	1:101:A:LEU:HD11	20	1.91	0.09	1.93
(1,1702)	1:92:A:VAL:HG12	1:101:A:LEU:HD12	20	1.91	0.09	1.93
(1,1702)	1:92:A:VAL:HG12	1:101:A:LEU:HD11	20	1.91	0.09	1.93
(1,1702)	1:92:A:VAL:HG11	1:101:A:LEU:HD12	20	1.91	0.09	1.93
(1,1702)	1:92:A:VAL:HG12	1:101:A:LEU:HD13	20	1.91	0.09	1.93
(1,1702)	1:92:A:VAL:HG13	1:101:A:LEU:HD13	20	1.91	0.09	1.93
(1,1702)	1:92:A:VAL:HG13	1:101:A:LEU:HD11	20	1.91	0.09	1.93
(1,1702)	1:92:A:VAL:HG11	1:101:A:LEU:HD13	20	1.91	0.09	1.93
(1,2003)	1:36:A:LYS:HG2	1:40:A:LEU:HD12	20	1.9	0.06	1.9
(1,2003)	1:36:A:LYS:HG2	1:40:A:LEU:HD11	20	1.9	0.06	1.9
(1,2003)	1:36:A:LYS:HG2	1:40:A:LEU:HD13	20	1.9	0.06	1.9
(1,1616)	1:171:A:ILE:HG22	1:124:A:LYS:HG3	20	1.89	0.29	1.98
(1,1616)	1:171:A:ILE:HG23	1:124:A:LYS:HG3	20	1.89	0.29	1.98
(1,1616)	1:171:A:ILE:HG21	1:124:A:LYS:HG3	20	1.89	0.29	1.98
(1,3080)	1:129:A:GLU:HA	1:130:A:VAL:HG22	20	1.89	0.03	1.88
(1,3080)	1:129:A:GLU:HA	1:130:A:VAL:HG23	20	1.89	0.03	1.88
(1,3080)	1:129:A:GLU:HA	1:130:A:VAL:HG21	20	1.89	0.03	1.88
(1,2533)	1:84:A:GLY:HA2	1:85:A:ARG:HG3	20	1.89	0.02	1.89
(1,466)	1:99:A:VAL:HG22	1:66:A:LEU:HA	20	1.84	0.09	1.86
(1,466)	1:99:A:VAL:HG21	1:66:A:LEU:HA	20	1.84	0.09	1.86
(1,466)	1:99:A:VAL:HG23	1:66:A:LEU:HA	20	1.84	0.09	1.86
(1,2070)	1:125:A:LEU:HD22	1:98:A:LEU:HD12	20	1.83	0.07	1.84
(1,2070)	1:125:A:LEU:HD23	1:98:A:LEU:HD13	20	1.83	0.07	1.84
(1,2070)	1:125:A:LEU:HD21	1:98:A:LEU:HD13	20	1.83	0.07	1.84
(1,2070)	1:125:A:LEU:HD22	1:98:A:LEU:HD13	20	1.83	0.07	1.84
(1,2070)	1:125:A:LEU:HD22	1:98:A:LEU:HD11	20	1.83	0.07	1.84

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2070)	1:125:A:LEU:HD21	1:98:A:LEU:HD12	20	1.83	0.07	1.84
(1,2070)	1:125:A:LEU:HD23	1:98:A:LEU:HD12	20	1.83	0.07	1.84
(1,2070)	1:125:A:LEU:HD21	1:98:A:LEU:HD11	20	1.83	0.07	1.84
(1,1941)	1:70:A:LYS:HG2	1:36:A:LYS:HE2	20	1.8	0.11	1.82
(1,500)	1:163:A:TRP:HE3	1:137:A:LEU:HD11	20	1.79	0.17	1.81
(1,500)	1:163:A:TRP:HE3	1:137:A:LEU:HD13	20	1.79	0.17	1.81
(1,500)	1:163:A:TRP:HE3	1:137:A:LEU:HD12	20	1.79	0.17	1.81
(1,213)	1:123:A:LYS:HD3	1:181:A:GLY:HA2	20	1.79	0.61	2.07
(1,448)	1:30:A:LYS:HE2	1:31:A:VAL:HG12	20	1.78	0.05	1.78
(1,448)	1:30:A:LYS:HE2	1:31:A:VAL:HG11	20	1.78	0.05	1.78
(1,448)	1:30:A:LYS:HE2	1:31:A:VAL:HG13	20	1.78	0.05	1.78
(1,2251)	1:11:A:GLU:HB2	1:19:A:LEU:HD13	20	1.78	0.87	2.31
(1,2251)	1:11:A:GLU:HB2	1:19:A:LEU:HD11	20	1.78	0.87	2.31
(1,2251)	1:11:A:GLU:HB2	1:19:A:LEU:HD12	20	1.78	0.87	2.31
(1,3480)	1:34:A:TYR:HD2	1:31:A:VAL:HG11	20	1.78	0.07	1.8
(1,3480)	1:34:A:TYR:HD1	1:31:A:VAL:HG11	20	1.78	0.07	1.8
(1,3480)	1:34:A:TYR:HD1	1:31:A:VAL:HG13	20	1.78	0.07	1.8
(1,3480)	1:34:A:TYR:HD1	1:31:A:VAL:HG12	20	1.78	0.07	1.8
(1,3480)	1:34:A:TYR:HD2	1:31:A:VAL:HG12	20	1.78	0.07	1.8
(1,3480)	1:34:A:TYR:HD2	1:31:A:VAL:HG13	20	1.78	0.07	1.8
(1,766)	1:80:A:LYS:H	1:79:A:LEU:HD22	20	1.76	0.33	1.82
(1,766)	1:80:A:LYS:H	1:79:A:LEU:HD23	20	1.76	0.33	1.82
(1,766)	1:80:A:LYS:H	1:79:A:LEU:HD21	20	1.76	0.33	1.82
(1,1735)	1:130:A:VAL:HG11	1:138:A:PHE:HE1	20	1.74	0.14	1.74
(1,1735)	1:130:A:VAL:HG12	1:138:A:PHE:HE1	20	1.74	0.14	1.74
(1,1735)	1:130:A:VAL:HG13	1:138:A:PHE:HE1	20	1.74	0.14	1.74
(1,1735)	1:130:A:VAL:HG11	1:138:A:PHE:HE2	20	1.74	0.14	1.74
(1,1735)	1:130:A:VAL:HG13	1:138:A:PHE:HE2	20	1.74	0.14	1.74
(1,1735)	1:130:A:VAL:HG12	1:138:A:PHE:HE2	20	1.74	0.14	1.74
(1,1759)	1:99:A:VAL:HG13	1:101:A:LEU:HD21	20	1.74	0.05	1.74
(1,1759)	1:99:A:VAL:HG12	1:101:A:LEU:HD22	20	1.74	0.05	1.74
(1,1759)	1:99:A:VAL:HG13	1:101:A:LEU:HD22	20	1.74	0.05	1.74
(1,1759)	1:99:A:VAL:HG11	1:101:A:LEU:HD22	20	1.74	0.05	1.74
(1,1759)	1:99:A:VAL:HG12	1:101:A:LEU:HD23	20	1.74	0.05	1.74
(1,1759)	1:99:A:VAL:HG11	1:101:A:LEU:HD23	20	1.74	0.05	1.74
(1,1759)	1:99:A:VAL:HG11	1:101:A:LEU:HD21	20	1.74	0.05	1.74
(1,1759)	1:99:A:VAL:HG12	1:101:A:LEU:HD21	20	1.74	0.05	1.74
(1,1759)	1:99:A:VAL:HG13	1:101:A:LEU:HD23	20	1.74	0.05	1.74
(1,1806)	1:127:A:VAL:HG22	1:164:A:ILE:HG12	20	1.73	0.1	1.74
(1,1806)	1:127:A:VAL:HG23	1:164:A:ILE:HG12	20	1.73	0.1	1.74
(1,1806)	1:127:A:VAL:HG21	1:164:A:ILE:HG12	20	1.73	0.1	1.74
(1,1879)	1:67:A:LYS:H	1:66:A:LEU:HD23	20	1.72	0.17	1.77

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1879)	1:67:A:LYS:H	1:66:A:LEU:HD21	20	1.72	0.17	1.77
(1,1879)	1:67:A:LYS:H	1:66:A:LEU:HD22	20	1.72	0.17	1.77
(1,1987)	1:174:A:LEU:HD11	1:125:A:LEU:HD22	20	1.72	0.11	1.74
(1,1987)	1:174:A:LEU:HD11	1:125:A:LEU:HD23	20	1.72	0.11	1.74
(1,1987)	1:174:A:LEU:HD13	1:125:A:LEU:HD23	20	1.72	0.11	1.74
(1,1987)	1:174:A:LEU:HD12	1:125:A:LEU:HD21	20	1.72	0.11	1.74
(1,1987)	1:174:A:LEU:HD13	1:125:A:LEU:HD21	20	1.72	0.11	1.74
(1,1987)	1:174:A:LEU:HD12	1:125:A:LEU:HD23	20	1.72	0.11	1.74
(1,1987)	1:174:A:LEU:HD11	1:125:A:LEU:HD21	20	1.72	0.11	1.74
(1,1987)	1:174:A:LEU:HD12	1:125:A:LEU:HD22	20	1.72	0.11	1.74
(1,1987)	1:174:A:LEU:HD13	1:125:A:LEU:HD22	20	1.72	0.11	1.74
(1,2534)	1:84:A:GLY:HA3	1:85:A:ARG:HG3	20	1.7	0.08	1.66
(1,3379)	1:101:A:LEU:HG	1:92:A:VAL:HG13	20	1.69	0.08	1.71
(1,3379)	1:101:A:LEU:HG	1:92:A:VAL:HG11	20	1.69	0.08	1.71
(1,3379)	1:101:A:LEU:HG	1:92:A:VAL:HG12	20	1.69	0.08	1.71
(1,1734)	1:130:A:VAL:HG11	1:138:A:PHE:HZ	20	1.69	0.13	1.67
(1,1734)	1:130:A:VAL:HG12	1:138:A:PHE:HZ	20	1.69	0.13	1.67
(1,1734)	1:130:A:VAL:HG13	1:138:A:PHE:HZ	20	1.69	0.13	1.67
(1,2640)	1:128:A:ARG:HA	1:138:A:PHE:HB3	20	1.68	0.12	1.72
(1,3414)	1:137:A:LEU:HD22	1:127:A:VAL:HB	20	1.68	0.1	1.69
(1,3414)	1:137:A:LEU:HD21	1:127:A:VAL:HB	20	1.68	0.1	1.69
(1,3414)	1:137:A:LEU:HD23	1:127:A:VAL:HB	20	1.68	0.1	1.69
(1,3016)	1:151:A:GLU:HG2	1:150:A:VAL:HG12	20	1.67	0.37	1.65
(1,3016)	1:151:A:GLU:HG2	1:150:A:VAL:HG13	20	1.67	0.37	1.65
(1,3016)	1:151:A:GLU:HG2	1:150:A:VAL:HG11	20	1.67	0.37	1.65
(1,1623)	1:43:A:ILE:HG22	1:66:A:LEU:HD13	20	1.67	0.14	1.68
(1,1623)	1:43:A:ILE:HG23	1:66:A:LEU:HD12	20	1.67	0.14	1.68
(1,1623)	1:43:A:ILE:HG21	1:66:A:LEU:HD13	20	1.67	0.14	1.68
(1,1623)	1:43:A:ILE:HG21	1:66:A:LEU:HD12	20	1.67	0.14	1.68
(1,1623)	1:43:A:ILE:HG23	1:66:A:LEU:HD11	20	1.67	0.14	1.68
(1,1623)	1:43:A:ILE:HG23	1:66:A:LEU:HD13	20	1.67	0.14	1.68
(1,1623)	1:43:A:ILE:HG22	1:66:A:LEU:HD11	20	1.67	0.14	1.68
(1,1757)	1:99:A:VAL:HG21	1:92:A:VAL:HB	20	1.66	0.07	1.65
(1,1757)	1:99:A:VAL:HG23	1:92:A:VAL:HB	20	1.66	0.07	1.65
(1,1757)	1:99:A:VAL:HG22	1:92:A:VAL:HB	20	1.66	0.07	1.65
(1,2536)	1:97:A:ILE:HB	1:99:A:VAL:HG23	20	1.65	0.12	1.64
(1,2536)	1:97:A:ILE:HB	1:99:A:VAL:HG22	20	1.65	0.12	1.64
(1,2536)	1:97:A:ILE:HB	1:99:A:VAL:HG21	20	1.65	0.12	1.64
(1,132)	1:66:A:LEU:HD21	1:110:A:PHE:HD1	20	1.62	0.1	1.62
(1,132)	1:66:A:LEU:HD22	1:110:A:PHE:HD1	20	1.62	0.1	1.62
(1,132)	1:66:A:LEU:HD23	1:110:A:PHE:HD1	20	1.62	0.1	1.62
(1,1432)	1:58:A:GLY:H	1:59:A:GLN:HB2	20	1.6	0.04	1.59

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,3413)	1:42:A:GLU:HB3	1:43:A:ILE:HG21	20	1.59	0.07	1.6
(1,3413)	1:42:A:GLU:HB3	1:43:A:ILE:HG22	20	1.59	0.07	1.6
(1,3413)	1:42:A:GLU:HB3	1:43:A:ILE:HG23	20	1.59	0.07	1.6
(1,1854)	1:62:A:ALA:HB1	1:52:A:ILE:HG13	20	1.59	0.02	1.59
(1,1854)	1:62:A:ALA:HB3	1:52:A:ILE:HG13	20	1.59	0.02	1.59
(1,1854)	1:62:A:ALA:HB2	1:52:A:ILE:HG13	20	1.59	0.02	1.59
(1,1810)	1:127:A:VAL:HG22	1:168:A:GLN:H	20	1.58	0.06	1.59
(1,1810)	1:127:A:VAL:HG23	1:168:A:GLN:H	20	1.58	0.06	1.59
(1,1810)	1:127:A:VAL:HG21	1:168:A:GLN:H	20	1.58	0.06	1.59
(1,2120)	1:137:A:LEU:HD12	1:163:A:TRP:HB2	20	1.58	0.12	1.62
(1,2120)	1:137:A:LEU:HD11	1:163:A:TRP:HB2	20	1.58	0.12	1.62
(1,2120)	1:137:A:LEU:HD13	1:163:A:TRP:HB2	20	1.58	0.12	1.62
(1,3252)	1:99:A:VAL:HG13	1:110:A:PHE:HZ	20	1.56	0.06	1.56
(1,3252)	1:99:A:VAL:HG12	1:110:A:PHE:HZ	20	1.56	0.06	1.56
(1,3252)	1:99:A:VAL:HG11	1:110:A:PHE:HZ	20	1.56	0.06	1.56
(1,3015)	1:151:A:GLU:HG2	1:80:A:LYS:HB3	20	1.56	0.23	1.6
(1,3510)	1:103:A:GLU:HG2	1:108:A:TYR:HE1	20	1.55	0.04	1.55
(1,3523)	1:130:A:VAL:HG11	1:132:A:HIS:HD2	20	1.53	0.28	1.52
(1,3523)	1:130:A:VAL:HG12	1:132:A:HIS:HD2	20	1.53	0.28	1.52
(1,3523)	1:130:A:VAL:HG13	1:132:A:HIS:HD2	20	1.53	0.28	1.52
(1,1823)	1:79:A:LEU:HD21	1:100:A:PHE:HZ	20	1.53	0.26	1.58
(1,1823)	1:79:A:LEU:HD22	1:100:A:PHE:HZ	20	1.53	0.26	1.58
(1,1823)	1:79:A:LEU:HD23	1:100:A:PHE:HZ	20	1.53	0.26	1.58
(1,1640)	1:82:A:ALA:HB3	1:81:A:ASN:HB3	20	1.51	0.61	1.84
(1,1640)	1:82:A:ALA:HB2	1:81:A:ASN:HB3	20	1.51	0.61	1.84
(1,1640)	1:82:A:ALA:HB1	1:81:A:ASN:HB3	20	1.51	0.61	1.84
(1,248)	1:165:A:GLN:HG3	1:166:A:ILE:HG22	20	1.5	0.13	1.53
(1,248)	1:165:A:GLN:HG3	1:166:A:ILE:HG23	20	1.5	0.13	1.53
(1,248)	1:165:A:GLN:HG3	1:166:A:ILE:HG21	20	1.5	0.13	1.53
(1,1030)	1:138:A:PHE:H	1:130:A:VAL:HG22	20	1.5	0.09	1.51
(1,1030)	1:138:A:PHE:H	1:130:A:VAL:HG23	20	1.5	0.09	1.51
(1,1030)	1:138:A:PHE:H	1:130:A:VAL:HG21	20	1.5	0.09	1.51
(1,3003)	1:150:A:VAL:HG22	1:100:A:PHE:HZ	20	1.48	0.25	1.48
(1,3003)	1:150:A:VAL:HG23	1:100:A:PHE:HZ	20	1.48	0.25	1.48
(1,3003)	1:150:A:VAL:HG21	1:100:A:PHE:HZ	20	1.48	0.25	1.48
(1,2609)	1:107:A:LYS:HA	1:46:A:LYS:HD3	20	1.48	0.09	1.5
(1,1813)	1:31:A:VAL:HG22	1:32:A:ALA:HB3	20	1.46	0.06	1.46
(1,1813)	1:31:A:VAL:HG22	1:32:A:ALA:HB1	20	1.46	0.06	1.46
(1,1813)	1:31:A:VAL:HG21	1:32:A:ALA:HB2	20	1.46	0.06	1.46
(1,1813)	1:31:A:VAL:HG22	1:32:A:ALA:HB2	20	1.46	0.06	1.46
(1,1813)	1:31:A:VAL:HG23	1:32:A:ALA:HB1	20	1.46	0.06	1.46
(1,1813)	1:31:A:VAL:HG23	1:32:A:ALA:HB2	20	1.46	0.06	1.46

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1813)	1:31:A:VAL:HG21	1:32:A:ALA:HB1	20	1.46	0.06	1.46
(1,1813)	1:31:A:VAL:HG23	1:32:A:ALA:HB3	20	1.46	0.06	1.46
(1,1813)	1:31:A:VAL:HG21	1:32:A:ALA:HB3	20	1.46	0.06	1.46
(1,2133)	1:68:A:ARG:HG2	1:67:A:LYS:HD2	20	1.41	0.64	1.28
(1,2068)	1:137:A:LEU:HD21	1:129:A:GLU:HA	20	1.41	0.19	1.44
(1,2068)	1:137:A:LEU:HD23	1:129:A:GLU:HA	20	1.41	0.19	1.44
(1,2068)	1:137:A:LEU:HD22	1:129:A:GLU:HA	20	1.41	0.19	1.44
(1,2487)	1:19:A:LEU:HD12	1:19:A:LEU:HB2	20	1.4	0.04	1.41
(1,2487)	1:19:A:LEU:HD13	1:19:A:LEU:HB2	20	1.4	0.04	1.41
(1,2487)	1:19:A:LEU:HD11	1:19:A:LEU:HB2	20	1.4	0.04	1.41
(1,3204)	1:101:A:LEU:HA	1:99:A:VAL:HG11	20	1.39	0.09	1.4
(1,3204)	1:101:A:LEU:HA	1:99:A:VAL:HG13	20	1.39	0.09	1.4
(1,3204)	1:101:A:LEU:HA	1:99:A:VAL:HG12	20	1.39	0.09	1.4
(1,117)	1:101:A:LEU:HD23	1:43:A:ILE:HG21	20	1.33	0.13	1.34
(1,117)	1:101:A:LEU:HD21	1:43:A:ILE:HG22	20	1.33	0.13	1.34
(1,117)	1:101:A:LEU:HD21	1:43:A:ILE:HG23	20	1.33	0.13	1.34
(1,117)	1:101:A:LEU:HD22	1:43:A:ILE:HG23	20	1.33	0.13	1.34
(1,117)	1:101:A:LEU:HD23	1:43:A:ILE:HG22	20	1.33	0.13	1.34
(1,117)	1:101:A:LEU:HD21	1:43:A:ILE:HG21	20	1.33	0.13	1.34
(1,117)	1:101:A:LEU:HD22	1:43:A:ILE:HG21	20	1.33	0.13	1.34
(1,117)	1:101:A:LEU:HD22	1:43:A:ILE:HG22	20	1.33	0.13	1.34
(1,1827)	1:45:A:THR:HG21	1:42:A:GLU:HB2	20	1.33	0.05	1.32
(1,1827)	1:45:A:THR:HG23	1:42:A:GLU:HB2	20	1.33	0.05	1.32
(1,1827)	1:45:A:THR:HG22	1:42:A:GLU:HB2	20	1.33	0.05	1.32
(1,1613)	1:171:A:ILE:HG21	1:125:A:LEU:HD13	20	1.31	0.07	1.32
(1,1613)	1:171:A:ILE:HG23	1:125:A:LEU:HD11	20	1.31	0.07	1.32
(1,1613)	1:171:A:ILE:HG22	1:125:A:LEU:HD11	20	1.31	0.07	1.32
(1,1613)	1:171:A:ILE:HG23	1:125:A:LEU:HD12	20	1.31	0.07	1.32
(1,1613)	1:171:A:ILE:HG23	1:125:A:LEU:HD13	20	1.31	0.07	1.32
(1,1613)	1:171:A:ILE:HG22	1:125:A:LEU:HD12	20	1.31	0.07	1.32
(1,1613)	1:171:A:ILE:HG21	1:125:A:LEU:HD12	20	1.31	0.07	1.32
(1,1613)	1:171:A:ILE:HG21	1:125:A:LEU:HD11	20	1.31	0.07	1.32
(1,1613)	1:171:A:ILE:HG22	1:125:A:LEU:HD13	20	1.31	0.07	1.32
(1,1801)	1:127:A:VAL:HG13	1:139:A:LEU:HD22	20	1.31	0.81	1.02
(1,1801)	1:127:A:VAL:HG11	1:139:A:LEU:HD23	20	1.31	0.81	1.02
(1,1801)	1:127:A:VAL:HG12	1:139:A:LEU:HD22	20	1.31	0.81	1.02
(1,1801)	1:127:A:VAL:HG11	1:139:A:LEU:HD21	20	1.31	0.81	1.02
(1,1801)	1:127:A:VAL:HG12	1:139:A:LEU:HD23	20	1.31	0.81	1.02
(1,1801)	1:127:A:VAL:HG13	1:139:A:LEU:HD21	20	1.31	0.81	1.02
(1,1801)	1:127:A:VAL:HG12	1:139:A:LEU:HD21	20	1.31	0.81	1.02
(1,1801)	1:127:A:VAL:HG11	1:139:A:LEU:HD22	20	1.31	0.81	1.02
(1,1801)	1:127:A:VAL:HG13	1:139:A:LEU:HD23	20	1.31	0.81	1.02

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2480)	1:69:A:LYS:HE3	1:97:A:ILE:HG13	20	1.3	0.29	1.25
(1,3335)	1:124:A:LYS:HA	1:171:A:ILE:HG13	20	1.29	0.08	1.32
(1,3004)	1:165:A:GLN:HB2	1:162:A:SER:HA	20	1.29	0.11	1.28
(1,2128)	1:137:A:LEU:HD12	1:163:A:TRP:H	20	1.28	0.09	1.27
(1,2128)	1:137:A:LEU:HD11	1:163:A:TRP:H	20	1.28	0.09	1.27
(1,2128)	1:137:A:LEU:HD13	1:163:A:TRP:H	20	1.28	0.09	1.27
(1,2118)	1:137:A:LEU:HD12	1:160:A:ARG:HA	20	1.28	0.15	1.27
(1,2118)	1:137:A:LEU:HD11	1:160:A:ARG:HA	20	1.28	0.15	1.27
(1,2118)	1:137:A:LEU:HD13	1:160:A:ARG:HA	20	1.28	0.15	1.27
(1,2626)	1:153:A:HIS:HA	1:130:A:VAL:HG21	20	1.28	0.23	1.33
(1,2626)	1:153:A:HIS:HA	1:130:A:VAL:HG22	20	1.28	0.23	1.33
(1,2626)	1:153:A:HIS:HA	1:130:A:VAL:HG23	20	1.28	0.23	1.33
(1,1629)	1:24:A:ILE:HG21	1:24:A:ILE:HG13	20	1.28	0.01	1.28
(1,1629)	1:24:A:ILE:HG22	1:24:A:ILE:HG13	20	1.28	0.01	1.28
(1,1629)	1:24:A:ILE:HG23	1:24:A:ILE:HG13	20	1.28	0.01	1.28
(1,2811)	1:36:A:LYS:HA	1:36:A:LYS:HE3	20	1.24	0.04	1.24
(1,2658)	1:138:A:PHE:HA	1:137:A:LEU:HD22	20	1.24	0.05	1.23
(1,2658)	1:138:A:PHE:HA	1:137:A:LEU:HD21	20	1.24	0.05	1.23
(1,2658)	1:138:A:PHE:HA	1:137:A:LEU:HD23	20	1.24	0.05	1.23
(1,2196)	1:35:A:GLU:HB2	1:38:A:VAL:HG23	20	1.23	0.22	1.34
(1,2196)	1:35:A:GLU:HB2	1:38:A:VAL:HG21	20	1.23	0.22	1.34
(1,2196)	1:35:A:GLU:HB2	1:38:A:VAL:HG22	20	1.23	0.22	1.34
(1,2457)	1:87:A:LYS:HB2	1:87:A:LYS:HE2	20	1.23	0.12	1.26
(1,1730)	1:31:A:VAL:HG12	1:31:A:VAL:HA	20	1.23	0.01	1.23
(1,1730)	1:31:A:VAL:HG11	1:31:A:VAL:HA	20	1.23	0.01	1.23
(1,1730)	1:31:A:VAL:HG13	1:31:A:VAL:HA	20	1.23	0.01	1.23
(1,1607)	1:142:A:MET:HE3	1:142:A:MET:HB3	20	1.22	0.08	1.24
(1,1607)	1:142:A:MET:HE1	1:142:A:MET:HB3	20	1.22	0.08	1.24
(1,1607)	1:142:A:MET:HE2	1:142:A:MET:HB3	20	1.22	0.08	1.24
(1,3396)	1:92:A:VAL:HA	1:73:A:ARG:HG3	20	1.22	0.3	1.3
(1,2825)	1:32:A:ALA:HB2	1:29:A:SER:HB2	20	1.21	0.42	1.42
(1,2825)	1:32:A:ALA:HB3	1:29:A:SER:HB2	20	1.21	0.42	1.42
(1,2825)	1:32:A:ALA:HB1	1:29:A:SER:HB2	20	1.21	0.42	1.42
(1,219)	1:42:A:GLU:HB3	1:39:A:ARG:HB2	20	1.21	0.65	0.92
(1,219)	1:42:A:GLU:HB3	1:39:A:ARG:HB3	20	1.21	0.65	0.92
(1,3217)	1:46:A:LYS:HD2	1:43:A:ILE:HB	20	1.21	0.04	1.21
(1,1933)	1:70:A:LYS:HG3	1:36:A:LYS:HE2	20	1.2	0.2	1.2
(1,231)	1:147:A:PRO:HB3	1:126:A:ILE:HD12	20	1.19	0.14	1.16
(1,231)	1:147:A:PRO:HB3	1:126:A:ILE:HD13	20	1.19	0.14	1.16
(1,231)	1:147:A:PRO:HB3	1:120:A:ILE:HG23	20	1.19	0.14	1.16
(1,231)	1:147:A:PRO:HB3	1:126:A:ILE:HD11	20	1.19	0.14	1.16
(1,1546)	1:120:A:ILE:HD11	1:98:A:LEU:HB2	20	1.19	0.73	0.82

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1546)	1:120:A:ILE:HD13	1:98:A:LEU:HB2	20	1.19	0.73	0.82
(1,2987)	1:38:A:VAL:HG22	1:41:A:ASN:HD22	20	1.17	0.18	1.19
(1,2987)	1:38:A:VAL:HG23	1:41:A:ASN:HD22	20	1.17	0.18	1.19
(1,2987)	1:38:A:VAL:HG21	1:41:A:ASN:HD22	20	1.17	0.18	1.19
(1,2187)	1:93:A:LEU:HD22	1:125:A:LEU:HD22	20	1.17	0.2	1.15
(1,2187)	1:93:A:LEU:HD23	1:125:A:LEU:HD22	20	1.17	0.2	1.15
(1,2187)	1:93:A:LEU:HD23	1:125:A:LEU:HD23	20	1.17	0.2	1.15
(1,2187)	1:93:A:LEU:HD21	1:125:A:LEU:HD21	20	1.17	0.2	1.15
(1,2187)	1:93:A:LEU:HD22	1:125:A:LEU:HD23	20	1.17	0.2	1.15
(1,2187)	1:93:A:LEU:HD21	1:125:A:LEU:HD23	20	1.17	0.2	1.15
(1,2187)	1:93:A:LEU:HD22	1:125:A:LEU:HD21	20	1.17	0.2	1.15
(1,2187)	1:93:A:LEU:HD21	1:125:A:LEU:HD22	20	1.17	0.2	1.15
(2,8)	1:92:A:VAL:H	1:99:A:VAL:O	20	1.17	0.03	1.17
(1,2439)	1:28:A:ASP:HB2	1:25:A:GLY:HA3	20	1.16	0.12	1.18
(1,1712)	1:119:A:VAL:HG22	1:99:A:VAL:HG12	20	1.16	0.26	1.2
(1,1712)	1:119:A:VAL:HG22	1:99:A:VAL:HG11	20	1.16	0.26	1.2
(1,1712)	1:119:A:VAL:HG21	1:99:A:VAL:HG12	20	1.16	0.26	1.2
(1,1712)	1:119:A:VAL:HG23	1:99:A:VAL:HG12	20	1.16	0.26	1.2
(1,1712)	1:119:A:VAL:HG23	1:99:A:VAL:HG11	20	1.16	0.26	1.2
(1,1712)	1:119:A:VAL:HG21	1:99:A:VAL:HG13	20	1.16	0.26	1.2
(1,1712)	1:119:A:VAL:HG22	1:99:A:VAL:HG13	20	1.16	0.26	1.2
(1,1712)	1:119:A:VAL:HG23	1:99:A:VAL:HG13	20	1.16	0.26	1.2
(1,1712)	1:119:A:VAL:HG21	1:99:A:VAL:HG11	20	1.16	0.26	1.2
(1,3533)	1:130:A:VAL:HG21	1:153:A:HIS:HD2	20	1.14	0.52	1.03
(1,3533)	1:130:A:VAL:HG22	1:153:A:HIS:HD2	20	1.14	0.52	1.03
(1,3533)	1:130:A:VAL:HG23	1:153:A:HIS:HD2	20	1.14	0.52	1.03
(1,3176)	1:159:A:GLU:HG3	1:155:A:SER:HB2	20	1.12	0.43	1.26
(1,3357)	1:19:A:LEU:HD21	1:19:A:LEU:HB3	20	1.12	0.03	1.12
(1,3357)	1:19:A:LEU:HD23	1:19:A:LEU:HB3	20	1.12	0.03	1.12
(1,3357)	1:19:A:LEU:HD22	1:19:A:LEU:HB3	20	1.12	0.03	1.12
(1,2448)	1:46:A:LYS:HE2	1:47:A:THR:HG21	20	1.12	0.02	1.12
(1,2448)	1:46:A:LYS:HE2	1:47:A:THR:HG22	20	1.12	0.02	1.12
(1,2448)	1:46:A:LYS:HE2	1:47:A:THR:HG23	20	1.12	0.02	1.12
(1,2985)	1:36:A:LYS:HE3	1:36:A:LYS:HB2	20	1.1	0.04	1.1
(1,1135)	1:66:A:LEU:H	1:66:A:LEU:HD23	20	1.09	0.05	1.09
(1,1135)	1:66:A:LEU:H	1:66:A:LEU:HD21	20	1.09	0.05	1.09
(1,1135)	1:66:A:LEU:H	1:66:A:LEU:HD22	20	1.09	0.05	1.09
(1,2944)	1:53:A:MET:HE2	1:53:A:MET:HB2	20	1.09	0.16	1.0
(1,2944)	1:53:A:MET:HE3	1:53:A:MET:HB2	20	1.09	0.16	1.0
(1,2944)	1:53:A:MET:HE1	1:53:A:MET:HB2	20	1.09	0.16	1.0
(1,3220)	1:127:A:VAL:HG22	1:164:A:ILE:H	20	1.09	0.08	1.08
(1,3220)	1:127:A:VAL:HG23	1:164:A:ILE:H	20	1.09	0.08	1.08

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,3220)	1:127:A:VAL:HG21	1:164:A:ILE:H	20	1.09	0.08	1.08
(1,414)	1:128:A:ARG:HA	1:164:A:ILE:HD12	20	1.09	0.11	1.06
(1,414)	1:128:A:ARG:HA	1:164:A:ILE:HD13	20	1.09	0.11	1.06
(1,414)	1:128:A:ARG:HA	1:164:A:ILE:HD11	20	1.09	0.11	1.06
(1,414)	1:128:A:ARG:HA	1:126:A:ILE:HD11	20	1.09	0.11	1.06
(1,954)	1:139:A:LEU:H	1:137:A:LEU:HD22	20	1.09	0.14	1.07
(1,954)	1:139:A:LEU:H	1:137:A:LEU:HD21	20	1.09	0.14	1.07
(1,954)	1:139:A:LEU:H	1:137:A:LEU:HD23	20	1.09	0.14	1.07
(1,2449)	1:46:A:LYS:HG2	1:46:A:LYS:HE2	20	1.08	0.09	1.06
(1,388)	1:128:A:ARG:HB3	1:126:A:ILE:HD11	20	1.07	0.13	1.12
(1,388)	1:128:A:ARG:HB3	1:126:A:ILE:HD12	20	1.07	0.13	1.12
(1,388)	1:128:A:ARG:HB3	1:126:A:ILE:HD13	20	1.07	0.13	1.12
(2,1)	1:35:A:GLU:H	1:31:A:VAL:O	20	1.07	0.02	1.07
(1,2392)	1:159:A:GLU:HG3	1:77:A:VAL:HG11	20	1.05	0.17	1.12
(1,2392)	1:159:A:GLU:HG3	1:77:A:VAL:HG13	20	1.05	0.17	1.12
(1,2392)	1:159:A:GLU:HG3	1:77:A:VAL:HG12	20	1.05	0.17	1.12
(1,462)	1:94:A:LEU:HD22	1:93:A:LEU:H	20	1.05	0.4	0.9
(1,462)	1:94:A:LEU:HD21	1:93:A:LEU:H	20	1.05	0.4	0.9
(1,462)	1:94:A:LEU:HD23	1:93:A:LEU:H	20	1.05	0.4	0.9
(1,491)	1:76:A:SER:HB3	1:89:A:VAL:HG22	20	1.05	0.09	1.04
(1,491)	1:76:A:SER:HB3	1:89:A:VAL:HG23	20	1.05	0.09	1.04
(1,491)	1:76:A:SER:HB3	1:89:A:VAL:HG21	20	1.05	0.09	1.04
(1,491)	1:76:A:SER:HB2	1:89:A:VAL:HG22	20	1.05	0.09	1.04
(1,491)	1:76:A:SER:HB2	1:89:A:VAL:HG23	20	1.05	0.09	1.04
(1,491)	1:76:A:SER:HB2	1:89:A:VAL:HG21	20	1.05	0.09	1.04
(1,2160)	1:107:A:LYS:HD3	1:109:A:ILE:HG23	20	1.05	0.3	1.15
(1,2160)	1:107:A:LYS:HD3	1:109:A:ILE:HG21	20	1.05	0.3	1.15
(1,2160)	1:107:A:LYS:HD3	1:109:A:ILE:HG22	20	1.05	0.3	1.15
(2,5)	1:89:A:VAL:H	1:77:A:VAL:O	20	1.04	0.04	1.04
(2,6)	1:90:A:GLN:H	1:101:A:LEU:O	20	1.04	0.07	1.05
(1,559)	1:93:A:LEU:H	1:92:A:VAL:HG22	20	1.04	0.03	1.03
(1,559)	1:93:A:LEU:H	1:92:A:VAL:HG23	20	1.04	0.03	1.03
(1,559)	1:93:A:LEU:H	1:92:A:VAL:HG21	20	1.04	0.03	1.03
(1,2624)	1:107:A:LYS:HA	1:46:A:LYS:HG3	20	1.03	0.06	1.03
(2,10)	1:94:A:LEU:H	1:97:A:ILE:O	20	1.02	0.06	1.04
(1,1805)	1:127:A:VAL:HG22	1:137:A:LEU:HD22	20	1.02	0.06	1.03
(1,1805)	1:127:A:VAL:HG22	1:137:A:LEU:HD21	20	1.02	0.06	1.03
(1,1805)	1:127:A:VAL:HG23	1:137:A:LEU:HD21	20	1.02	0.06	1.03
(1,1805)	1:127:A:VAL:HG22	1:137:A:LEU:HD23	20	1.02	0.06	1.03
(1,1805)	1:127:A:VAL:HG21	1:137:A:LEU:HD21	20	1.02	0.06	1.03
(1,1805)	1:127:A:VAL:HG23	1:137:A:LEU:HD23	20	1.02	0.06	1.03
(1,1805)	1:127:A:VAL:HG23	1:137:A:LEU:HD22	20	1.02	0.06	1.03

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1805)	1:127:A:VAL:HG21	1:137:A:LEU:HD22	20	1.02	0.06	1.03
(1,3233)	1:86:A:LEU:HD21	1:78:A:PHE:HE2	20	1.01	0.1	1.0
(1,3233)	1:86:A:LEU:HD23	1:78:A:PHE:HE2	20	1.01	0.1	1.0
(1,3233)	1:86:A:LEU:HD22	1:78:A:PHE:HE2	20	1.01	0.1	1.0
(2,19)	1:153:A:HIS:H	1:78:A:PHE:O	20	1.01	0.14	1.05
(1,2038)	1:123:A:LYS:HG2	1:171:A:ILE:HG12	20	1.01	0.14	1.03
(1,781)	1:92:A:VAL:H	1:92:A:VAL:HG12	20	1.01	0.01	1.01
(1,781)	1:92:A:VAL:H	1:92:A:VAL:HG13	20	1.01	0.01	1.01
(1,781)	1:92:A:VAL:H	1:92:A:VAL:HG11	20	1.01	0.01	1.01
(1,464)	1:112:A:SER:HB3	1:118:A:THR:HG21	20	1.01	0.1	1.02
(1,464)	1:112:A:SER:HB3	1:118:A:THR:HG22	20	1.01	0.1	1.02
(1,464)	1:112:A:SER:HB3	1:118:A:THR:HG23	20	1.01	0.1	1.02
(1,464)	1:112:A:SER:HB2	1:118:A:THR:HG23	20	1.01	0.1	1.02
(1,464)	1:112:A:SER:HB2	1:118:A:THR:HG22	20	1.01	0.1	1.02
(1,464)	1:112:A:SER:HB2	1:118:A:THR:HG21	20	1.01	0.1	1.02
(1,2210)	1:42:A:GLU:HB3	1:43:A:ILE:HD12	20	1.0	0.06	1.0
(1,2210)	1:42:A:GLU:HB3	1:43:A:ILE:HD13	20	1.0	0.06	1.0
(1,2210)	1:42:A:GLU:HB3	1:43:A:ILE:HD11	20	1.0	0.06	1.0
(1,2984)	1:36:A:LYS:HE3	1:36:A:LYS:HB3	20	0.99	0.1	1.0
(1,2710)	1:178:A:GLU:HA	1:177:A:ASP:HB2	20	0.99	0.67	1.46
(1,2014)	1:93:A:LEU:HD13	1:98:A:LEU:HD23	20	0.99	0.45	0.81
(1,2014)	1:93:A:LEU:HD12	1:98:A:LEU:HD21	20	0.99	0.45	0.81
(1,2014)	1:93:A:LEU:HD11	1:98:A:LEU:HD23	20	0.99	0.45	0.81
(1,2014)	1:93:A:LEU:HD13	1:98:A:LEU:HD22	20	0.99	0.45	0.81
(1,2014)	1:93:A:LEU:HD11	1:98:A:LEU:HD21	20	0.99	0.45	0.81
(1,2014)	1:93:A:LEU:HD12	1:98:A:LEU:HD22	20	0.99	0.45	0.81
(1,2014)	1:93:A:LEU:HD13	1:98:A:LEU:HD21	20	0.99	0.45	0.81
(1,2014)	1:93:A:LEU:HD12	1:98:A:LEU:HD23	20	0.99	0.45	0.81
(1,2014)	1:93:A:LEU:HD11	1:98:A:LEU:HD22	20	0.99	0.45	0.81
(1,453)	1:92:A:VAL:HG11	1:43:A:ILE:HG12	20	0.99	0.16	1.06
(1,453)	1:92:A:VAL:HG12	1:43:A:ILE:HG12	20	0.99	0.16	1.06
(1,453)	1:92:A:VAL:HG13	1:43:A:ILE:HG12	20	0.99	0.16	1.06
(1,1972)	1:66:A:LEU:HD12	1:101:A:LEU:HD13	20	0.98	0.16	0.96
(1,1972)	1:66:A:LEU:HD11	1:101:A:LEU:HD11	20	0.98	0.16	0.96
(1,1972)	1:66:A:LEU:HD12	1:101:A:LEU:HD12	20	0.98	0.16	0.96
(1,1972)	1:66:A:LEU:HD13	1:101:A:LEU:HD12	20	0.98	0.16	0.96
(1,1972)	1:66:A:LEU:HD11	1:101:A:LEU:HD12	20	0.98	0.16	0.96
(1,1972)	1:66:A:LEU:HD13	1:101:A:LEU:HD13	20	0.98	0.16	0.96
(1,1972)	1:66:A:LEU:HD13	1:101:A:LEU:HD11	20	0.98	0.16	0.96
(1,1972)	1:66:A:LEU:HD12	1:101:A:LEU:HD11	20	0.98	0.16	0.96
(1,1833)	1:118:A:THR:HG23	1:100:A:PHE:HB3	20	0.98	0.1	1.02
(1,1833)	1:118:A:THR:HG21	1:100:A:PHE:HB3	20	0.98	0.1	1.02

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1833)	1:118:A:THR:HG22	1:100:A:PHE:HB3	20	0.98	0.1	1.02
(1,3163)	1:97:A:ILE:HG22	1:97:A:ILE:HG13	20	0.98	0.03	0.99
(1,3163)	1:97:A:ILE:HG23	1:97:A:ILE:HG13	20	0.98	0.03	0.99
(1,3163)	1:97:A:ILE:HG21	1:97:A:ILE:HG13	20	0.98	0.03	0.99
(1,1496)	1:162:A:SER:H	1:154:A:ALA:HB1	20	0.98	0.09	0.98
(1,1496)	1:162:A:SER:H	1:154:A:ALA:HB2	20	0.98	0.09	0.98
(1,1496)	1:162:A:SER:H	1:154:A:ALA:HB3	20	0.98	0.09	0.98
(1,1753)	1:97:A:ILE:HD11	1:99:A:VAL:HG22	20	0.97	0.06	0.96
(1,1753)	1:97:A:ILE:HD12	1:99:A:VAL:HG22	20	0.97	0.06	0.96
(1,1753)	1:97:A:ILE:HD13	1:99:A:VAL:HG21	20	0.97	0.06	0.96
(1,1753)	1:97:A:ILE:HD13	1:99:A:VAL:HG22	20	0.97	0.06	0.96
(1,1753)	1:97:A:ILE:HD12	1:99:A:VAL:HG23	20	0.97	0.06	0.96
(1,1753)	1:97:A:ILE:HD11	1:99:A:VAL:HG23	20	0.97	0.06	0.96
(1,2245)	1:163:A:TRP:HB3	1:164:A:ILE:HD11	20	0.97	0.06	0.98
(1,2245)	1:163:A:TRP:HB3	1:164:A:ILE:HD12	20	0.97	0.06	0.98
(1,2245)	1:163:A:TRP:HB3	1:164:A:ILE:HD13	20	0.97	0.06	0.98
(1,2090)	1:128:A:ARG:HG2	1:140:A:ILE:HD13	20	0.97	0.11	0.96
(1,2090)	1:128:A:ARG:HG2	1:140:A:ILE:HD12	20	0.97	0.11	0.96
(1,2090)	1:128:A:ARG:HG2	1:140:A:ILE:HD11	20	0.97	0.11	0.96
(1,1766)	1:99:A:VAL:HG13	1:110:A:PHE:HE1	20	0.97	0.02	0.96
(1,1766)	1:99:A:VAL:HG12	1:110:A:PHE:HE1	20	0.97	0.02	0.96
(1,1766)	1:99:A:VAL:HG11	1:110:A:PHE:HE1	20	0.97	0.02	0.96
(1,254)	1:87:A:LYS:HB2	1:87:A:LYS:HD2	20	0.97	0.03	0.96
(2,7)	1:91:A:ALA:H	1:75:A:GLY:O	20	0.96	0.03	0.97
(1,2558)	1:91:A:ALA:HA	1:92:A:VAL:HG11	20	0.96	0.04	0.96
(1,2558)	1:91:A:ALA:HA	1:92:A:VAL:HG12	20	0.96	0.04	0.96
(1,2558)	1:91:A:ALA:HA	1:92:A:VAL:HG13	20	0.96	0.04	0.96
(1,2024)	1:94:A:LEU:HD21	1:61:A:PHE:HE1	20	0.96	0.13	1.0
(1,2024)	1:94:A:LEU:HD23	1:61:A:PHE:HE1	20	0.96	0.13	1.0
(1,2024)	1:94:A:LEU:HD22	1:61:A:PHE:HE1	20	0.96	0.13	1.0
(1,863)	1:59:A:GLN:H	1:59:A:GLN:HB2	20	0.95	0.03	0.94
(1,1881)	1:66:A:LEU:HD21	1:110:A:PHE:HZ	20	0.95	0.07	0.96
(1,1881)	1:66:A:LEU:HD22	1:110:A:PHE:HZ	20	0.95	0.07	0.96
(1,1881)	1:66:A:LEU:HD23	1:110:A:PHE:HZ	20	0.95	0.07	0.96
(1,2484)	1:36:A:LYS:HG3	1:36:A:LYS:HE3	20	0.95	0.06	0.94
(2,17)	1:140:A:ILE:H	1:126:A:ILE:O	20	0.95	0.08	0.96
(1,36)	1:169:A:ASP:H	1:166:A:ILE:HD13	20	0.94	0.06	0.96
(1,36)	1:169:A:ASP:H	1:166:A:ILE:HD12	20	0.94	0.06	0.96
(1,36)	1:169:A:ASP:H	1:171:A:ILE:HD12	20	0.94	0.06	0.96
(1,36)	1:169:A:ASP:H	1:171:A:ILE:HD11	20	0.94	0.06	0.96
(1,36)	1:169:A:ASP:H	1:171:A:ILE:HD13	20	0.94	0.06	0.96
(1,36)	1:169:A:ASP:H	1:166:A:ILE:HD11	20	0.94	0.06	0.96

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,819)	1:130:A:VAL:H	1:130:A:VAL:HG22	20	0.94	0.02	0.94
(1,819)	1:130:A:VAL:H	1:130:A:VAL:HG23	20	0.94	0.02	0.94
(1,819)	1:130:A:VAL:H	1:130:A:VAL:HG21	20	0.94	0.02	0.94
(1,1341)	1:100:A:PHE:H	1:99:A:VAL:HG11	20	0.94	0.07	0.92
(1,1341)	1:100:A:PHE:H	1:99:A:VAL:HG13	20	0.94	0.07	0.92
(1,1341)	1:100:A:PHE:H	1:99:A:VAL:HG12	20	0.94	0.07	0.92
(1,442)	1:31:A:VAL:HG21	1:30:A:LYS:HD3	20	0.94	0.04	0.94
(1,442)	1:31:A:VAL:HG23	1:30:A:LYS:HD3	20	0.94	0.04	0.94
(1,442)	1:31:A:VAL:HG22	1:30:A:LYS:HD3	20	0.94	0.04	0.94
(1,3240)	1:62:A:ALA:HB1	1:61:A:PHE:HD1	20	0.94	0.04	0.94
(1,3240)	1:62:A:ALA:HB3	1:61:A:PHE:HD1	20	0.94	0.04	0.94
(1,3240)	1:62:A:ALA:HB2	1:61:A:PHE:HD1	20	0.94	0.04	0.94
(1,392)	1:35:A:GLU:HB3	1:31:A:VAL:HG22	20	0.94	0.03	0.94
(1,392)	1:35:A:GLU:HB3	1:31:A:VAL:HG21	20	0.94	0.03	0.94
(1,392)	1:35:A:GLU:HB3	1:31:A:VAL:HG23	20	0.94	0.03	0.94
(1,454)	1:151:A:GLU:HB2	1:113:A:LEU:HD12	20	0.94	0.07	0.92
(1,454)	1:151:A:GLU:HB2	1:113:A:LEU:HD11	20	0.94	0.07	0.92
(1,454)	1:151:A:GLU:HB2	1:113:A:LEU:HD13	20	0.94	0.07	0.92
(2,14)	1:102:A:GLN:H	1:109:A:ILE:O	20	0.94	0.03	0.94
(1,2381)	1:35:A:GLU:HG2	1:32:A:ALA:HB3	20	0.94	0.17	1.01
(1,2381)	1:35:A:GLU:HG2	1:32:A:ALA:HB1	20	0.94	0.17	1.01
(1,2381)	1:35:A:GLU:HG2	1:32:A:ALA:HB2	20	0.94	0.17	1.01
(1,2890)	1:47:A:THR:HG22	1:108:A:TYR:HB3	20	0.94	0.13	0.94
(1,2890)	1:47:A:THR:HG23	1:108:A:TYR:HB3	20	0.94	0.13	0.94
(1,2890)	1:47:A:THR:HG21	1:108:A:TYR:HB3	20	0.94	0.13	0.94
(1,9)	1:98:A:LEU:H	1:120:A:ILE:HG21	20	0.94	0.16	0.89
(1,9)	1:98:A:LEU:H	1:120:A:ILE:HG23	20	0.94	0.16	0.89
(1,9)	1:98:A:LEU:H	1:120:A:ILE:HD11	20	0.94	0.16	0.89
(1,9)	1:98:A:LEU:H	1:120:A:ILE:HG22	20	0.94	0.16	0.89
(1,463)	1:139:A:LEU:HD11	1:120:A:ILE:H	20	0.93	0.1	0.94
(1,463)	1:139:A:LEU:HD12	1:120:A:ILE:H	20	0.93	0.1	0.94
(1,463)	1:139:A:LEU:HD23	1:120:A:ILE:H	20	0.93	0.1	0.94
(1,463)	1:139:A:LEU:HD13	1:120:A:ILE:H	20	0.93	0.1	0.94
(1,463)	1:139:A:LEU:HD22	1:120:A:ILE:H	20	0.93	0.1	0.94
(1,2171)	1:46:A:LYS:HD3	1:46:A:LYS:HB3	20	0.92	0.02	0.93
(1,286)	1:39:A:ARG:HD2	1:71:A:LEU:HD23	20	0.92	0.16	0.92
(1,286)	1:39:A:ARG:HD2	1:71:A:LEU:HD21	20	0.92	0.16	0.92
(1,286)	1:39:A:ARG:HD2	1:71:A:LEU:HD22	20	0.92	0.16	0.92
(1,1716)	1:119:A:VAL:HG23	1:55:A:MET:HG3	20	0.91	0.41	0.65
(1,1716)	1:119:A:VAL:HG22	1:55:A:MET:HG3	20	0.91	0.41	0.65
(1,1716)	1:119:A:VAL:HG21	1:55:A:MET:HG3	20	0.91	0.41	0.65
(1,60)	1:44:A:TYR:H	1:43:A:ILE:HD12	20	0.91	0.03	0.9

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,60)	1:44:A:TYR:H	1:43:A:ILE:HD13	20	0.91	0.03	0.9
(1,60)	1:44:A:TYR:H	1:43:A:ILE:HD11	20	0.91	0.03	0.9
(1,97)	1:166:A:ILE:HD12	1:163:A:TRP:HA	20	0.91	0.12	0.9
(1,97)	1:166:A:ILE:HD11	1:163:A:TRP:HA	20	0.91	0.12	0.9
(1,97)	1:166:A:ILE:HD13	1:163:A:TRP:HA	20	0.91	0.12	0.9
(1,3440)	1:103:A:GLU:HG2	1:108:A:TYR:HD1	20	0.9	0.09	0.9
(1,2660)	1:130:A:VAL:HG21	1:138:A:PHE:HA	20	0.9	0.14	0.93
(1,2660)	1:130:A:VAL:HG23	1:138:A:PHE:HA	20	0.9	0.14	0.93
(1,2660)	1:130:A:VAL:HG22	1:138:A:PHE:HA	20	0.9	0.14	0.93
(1,2581)	1:53:A:MET:HA	1:119:A:VAL:HG11	20	0.88	0.15	0.94
(1,2581)	1:53:A:MET:HA	1:119:A:VAL:HG12	20	0.88	0.15	0.94
(1,2581)	1:53:A:MET:HA	1:119:A:VAL:HG13	20	0.88	0.15	0.94
(1,1599)	1:149:A:MET:HE2	1:149:A:MET:HB2	20	0.88	0.14	0.84
(1,1599)	1:149:A:MET:HE3	1:149:A:MET:HB2	20	0.88	0.14	0.84
(1,1599)	1:149:A:MET:HE1	1:149:A:MET:HB2	20	0.88	0.14	0.84
(1,163)	1:40:A:LEU:HD11	1:44:A:TYR:HB2	20	0.88	0.16	0.8
(1,163)	1:40:A:LEU:HD13	1:44:A:TYR:HB2	20	0.88	0.16	0.8
(1,163)	1:40:A:LEU:HD12	1:44:A:TYR:HB2	20	0.88	0.16	0.8
(1,460)	1:29:A:SER:HA	1:20:A:VAL:HG21	20	0.88	0.13	0.9
(1,460)	1:29:A:SER:HA	1:20:A:VAL:HG22	20	0.88	0.13	0.9
(1,460)	1:29:A:SER:HA	1:20:A:VAL:HG23	20	0.88	0.13	0.9
(1,460)	1:29:A:SER:HA	1:20:A:VAL:HG11	20	0.88	0.13	0.9
(1,1955)	1:66:A:LEU:HD12	1:99:A:VAL:HB	20	0.87	0.09	0.87
(1,1955)	1:66:A:LEU:HD11	1:99:A:VAL:HB	20	0.87	0.09	0.87
(1,1955)	1:66:A:LEU:HD13	1:99:A:VAL:HB	20	0.87	0.09	0.87
(1,305)	1:26:A:ALA:HB3	1:25:A:GLY:HA3	20	0.87	0.03	0.88
(1,305)	1:26:A:ALA:HB2	1:25:A:GLY:HA3	20	0.87	0.03	0.88
(1,305)	1:26:A:ALA:HB1	1:25:A:GLY:HA3	20	0.87	0.03	0.88
(1,2123)	1:137:A:LEU:HD13	1:152:A:VAL:HB	20	0.86	0.04	0.86
(1,2123)	1:137:A:LEU:HD12	1:152:A:VAL:HB	20	0.86	0.04	0.86
(1,2123)	1:137:A:LEU:HD11	1:152:A:VAL:HB	20	0.86	0.04	0.86
(1,3361)	1:157:A:LYS:HA	1:160:A:ARG:HB2	20	0.86	0.32	0.94
(1,1882)	1:66:A:LEU:HD21	1:61:A:PHE:HE1	20	0.86	0.14	0.83
(1,1882)	1:66:A:LEU:HD22	1:61:A:PHE:HE1	20	0.86	0.14	0.83
(1,1882)	1:66:A:LEU:HD23	1:61:A:PHE:HE1	20	0.86	0.14	0.83
(1,1882)	1:66:A:LEU:HD22	1:61:A:PHE:HE2	20	0.86	0.14	0.83
(2,18)	1:152:A:VAL:H	1:137:A:LEU:O	20	0.86	0.12	0.92
(1,1563)	1:97:A:ILE:HD13	1:61:A:PHE:HD1	20	0.86	0.13	0.86
(1,1563)	1:97:A:ILE:HD11	1:61:A:PHE:HD1	20	0.86	0.13	0.86
(1,1563)	1:97:A:ILE:HD12	1:61:A:PHE:HD1	20	0.86	0.13	0.86
(1,1563)	1:97:A:ILE:HD13	1:61:A:PHE:HD2	20	0.86	0.13	0.86
(1,2899)	1:142:A:MET:HB3	1:126:A:ILE:HG12	20	0.85	0.19	0.91

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2963)	1:65:A:ASP:HB3	1:66:A:LEU:HB3	20	0.85	0.32	0.74
(1,3121)	1:46:A:LYS:HE3	1:47:A:THR:HG22	20	0.85	0.03	0.85
(1,3121)	1:46:A:LYS:HE3	1:47:A:THR:HG23	20	0.85	0.03	0.85
(1,3121)	1:46:A:LYS:HE3	1:47:A:THR:HG21	20	0.85	0.03	0.85
(1,2530)	1:125:A:LEU:HB3	1:167:A:ILE:HG22	20	0.84	0.04	0.85
(1,2530)	1:125:A:LEU:HB3	1:167:A:ILE:HG21	20	0.84	0.04	0.85
(1,2530)	1:125:A:LEU:HB3	1:167:A:ILE:HG23	20	0.84	0.04	0.85
(1,1773)	1:98:A:LEU:HD21	1:98:A:LEU:HB2	20	0.84	0.01	0.84
(1,1773)	1:98:A:LEU:HD23	1:98:A:LEU:HB2	20	0.84	0.01	0.84
(1,1773)	1:98:A:LEU:HD22	1:98:A:LEU:HB2	20	0.84	0.01	0.84
(1,3254)	1:99:A:VAL:HG12	1:119:A:VAL:HA	20	0.84	0.07	0.82
(1,3254)	1:99:A:VAL:HG11	1:119:A:VAL:HA	20	0.84	0.07	0.82
(1,3254)	1:99:A:VAL:HG13	1:119:A:VAL:HA	20	0.84	0.07	0.82
(1,1245)	1:106:A:GLN:H	1:103:A:GLU:HG3	20	0.84	0.14	0.87
(1,410)	1:29:A:SER:HA	1:30:A:LYS:HB3	20	0.83	0.06	0.84
(1,2707)	1:46:A:LYS:HG2	1:46:A:LYS:HA	20	0.83	0.02	0.83
(1,115)	1:86:A:LEU:HD23	1:87:A:LYS:HD2	20	0.82	0.09	0.84
(1,115)	1:86:A:LEU:HD22	1:87:A:LYS:HD2	20	0.82	0.09	0.84
(1,115)	1:86:A:LEU:HD21	1:87:A:LYS:HD2	20	0.82	0.09	0.84
(1,974)	1:107:A:LYS:H	1:107:A:LYS:HB2	20	0.82	0.02	0.82
(1,2645)	1:142:A:MET:HA	1:147:A:PRO:HG2	20	0.81	0.25	0.86
(1,104)	1:167:A:ILE:HG21	1:171:A:ILE:H	20	0.81	0.04	0.8
(1,104)	1:167:A:ILE:HG23	1:171:A:ILE:H	20	0.81	0.04	0.8
(1,104)	1:167:A:ILE:HG22	1:171:A:ILE:H	20	0.81	0.04	0.8
(1,1728)	1:31:A:VAL:HG11	1:35:A:GLU:HG3	20	0.81	0.24	0.72
(1,1728)	1:31:A:VAL:HG13	1:35:A:GLU:HG3	20	0.81	0.24	0.72
(1,1728)	1:31:A:VAL:HG12	1:35:A:GLU:HG3	20	0.81	0.24	0.72
(1,1891)	1:174:A:LEU:HD23	1:123:A:LYS:HE2	20	0.81	0.68	0.37
(1,1891)	1:174:A:LEU:HD22	1:123:A:LYS:HE2	20	0.81	0.68	0.37
(1,1891)	1:174:A:LEU:HD21	1:123:A:LYS:HE2	20	0.81	0.68	0.37
(1,2946)	1:53:A:MET:HE2	1:52:A:ILE:HD13	20	0.81	0.08	0.85
(1,2946)	1:53:A:MET:HE3	1:52:A:ILE:HD12	20	0.81	0.08	0.85
(1,2946)	1:53:A:MET:HE1	1:52:A:ILE:HD13	20	0.81	0.08	0.85
(1,2946)	1:53:A:MET:HE2	1:52:A:ILE:HD12	20	0.81	0.08	0.85
(1,2946)	1:53:A:MET:HE1	1:52:A:ILE:HD12	20	0.81	0.08	0.85
(1,2946)	1:53:A:MET:HE3	1:52:A:ILE:HD11	20	0.81	0.08	0.85
(1,2946)	1:53:A:MET:HE1	1:52:A:ILE:HD11	20	0.81	0.08	0.85
(1,2946)	1:53:A:MET:HE3	1:52:A:ILE:HD13	20	0.81	0.08	0.85
(1,3107)	1:36:A:LYS:HG3	1:36:A:LYS:HE2	20	0.8	0.04	0.8
(1,2195)	1:35:A:GLU:HB3	1:32:A:ALA:HB1	20	0.8	0.09	0.78
(1,2195)	1:35:A:GLU:HB3	1:32:A:ALA:HB2	20	0.8	0.09	0.78
(1,2195)	1:35:A:GLU:HB3	1:32:A:ALA:HB3	20	0.8	0.09	0.78

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2352)	1:130:A:VAL:HG11	1:133:A:GLU:HG2	20	0.8	0.14	0.8
(1,2352)	1:130:A:VAL:HG12	1:133:A:GLU:HG2	20	0.8	0.14	0.8
(1,2352)	1:130:A:VAL:HG13	1:133:A:GLU:HG2	20	0.8	0.14	0.8
(1,16)	1:174:A:LEU:H	1:170:A:THR:HG22	20	0.79	0.04	0.8
(1,16)	1:174:A:LEU:H	1:173:A:THR:HG21	20	0.79	0.04	0.8
(1,16)	1:174:A:LEU:H	1:170:A:THR:HG21	20	0.79	0.04	0.8
(1,16)	1:174:A:LEU:H	1:173:A:THR:HG22	20	0.79	0.04	0.8
(1,16)	1:174:A:LEU:H	1:170:A:THR:HG23	20	0.79	0.04	0.8
(1,16)	1:174:A:LEU:H	1:173:A:THR:HG23	20	0.79	0.04	0.8
(1,2917)	1:141:A:SER:HB3	1:140:A:ILE:HG23	20	0.79	0.2	0.74
(1,2917)	1:141:A:SER:HB3	1:140:A:ILE:HG21	20	0.79	0.2	0.74
(1,2917)	1:141:A:SER:HB3	1:140:A:ILE:HG22	20	0.79	0.2	0.74
(1,764)	1:80:A:LYS:H	1:80:A:LYS:HD3	20	0.79	0.03	0.79
(1,3142)	1:89:A:VAL:HG12	1:87:A:LYS:HE3	20	0.78	0.13	0.79
(1,3142)	1:89:A:VAL:HG13	1:87:A:LYS:HE3	20	0.78	0.13	0.79
(1,3142)	1:89:A:VAL:HG11	1:87:A:LYS:HE3	20	0.78	0.13	0.79
(1,2510)	1:73:A:ARG:HD3	1:73:A:ARG:HA	20	0.78	0.21	0.86
(1,2732)	1:184:A:SER:HA	1:59:A:GLN:HB2	20	0.78	0.2	0.84
(1,35)	1:119:A:VAL:H	1:120:A:ILE:HG13	20	0.77	0.74	0.24
(1,15)	1:128:A:ARG:H	1:139:A:LEU:HD22	20	0.77	0.27	0.72
(1,15)	1:128:A:ARG:H	1:139:A:LEU:HD23	20	0.77	0.27	0.72
(1,15)	1:128:A:ARG:H	1:139:A:LEU:HD21	20	0.77	0.27	0.72
(1,15)	1:128:A:ARG:H	1:126:A:ILE:HD11	20	0.77	0.27	0.72
(1,15)	1:128:A:ARG:H	1:126:A:ILE:HD12	20	0.77	0.27	0.72
(1,1988)	1:174:A:LEU:HD12	1:95:A:THR:HG21	20	0.77	0.08	0.78
(1,1988)	1:174:A:LEU:HD12	1:95:A:THR:HG22	20	0.77	0.08	0.78
(1,1988)	1:174:A:LEU:HD13	1:95:A:THR:HG21	20	0.77	0.08	0.78
(1,1988)	1:174:A:LEU:HD12	1:95:A:THR:HG23	20	0.77	0.08	0.78
(1,1988)	1:174:A:LEU:HD11	1:95:A:THR:HG21	20	0.77	0.08	0.78
(1,1988)	1:174:A:LEU:HD11	1:95:A:THR:HG23	20	0.77	0.08	0.78
(1,1988)	1:174:A:LEU:HD13	1:95:A:THR:HG23	20	0.77	0.08	0.78
(1,1988)	1:174:A:LEU:HD13	1:95:A:THR:HG22	20	0.77	0.08	0.78
(1,47)	1:175:A:ASN:H	1:173:A:THR:HG23	20	0.77	0.16	0.74
(1,47)	1:175:A:ASN:H	1:173:A:THR:HG21	20	0.77	0.16	0.74
(1,47)	1:175:A:ASN:H	1:173:A:THR:HG22	20	0.77	0.16	0.74
(1,3340)	1:107:A:LYS:HG3	1:108:A:TYR:HB3	20	0.76	0.05	0.76
(2,12)	1:99:A:VAL:H	1:92:A:VAL:O	20	0.76	0.1	0.74
(1,2205)	1:165:A:GLN:HB2	1:166:A:ILE:HG12	20	0.76	0.18	0.82
(1,1778)	1:89:A:VAL:HG13	1:100:A:PHE:HD1	20	0.76	0.07	0.75
(1,1778)	1:89:A:VAL:HG11	1:100:A:PHE:HD1	20	0.76	0.07	0.75
(1,1778)	1:89:A:VAL:HG12	1:100:A:PHE:HD1	20	0.76	0.07	0.75
(1,1778)	1:89:A:VAL:HG12	1:100:A:PHE:HD2	20	0.76	0.07	0.75

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2898)	1:149:A:MET:HB3	1:138:A:PHE:HD1	20	0.76	0.1	0.78
(1,1598)	1:149:A:MET:HE1	1:126:A:ILE:HD12	20	0.75	0.06	0.74
(1,1598)	1:149:A:MET:HE2	1:126:A:ILE:HD12	20	0.75	0.06	0.74
(1,1598)	1:149:A:MET:HE2	1:126:A:ILE:HD13	20	0.75	0.06	0.74
(1,1598)	1:149:A:MET:HE2	1:126:A:ILE:HD11	20	0.75	0.06	0.74
(1,1598)	1:149:A:MET:HE1	1:126:A:ILE:HD11	20	0.75	0.06	0.74
(1,1598)	1:149:A:MET:HE3	1:126:A:ILE:HD13	20	0.75	0.06	0.74
(1,1598)	1:149:A:MET:HE3	1:126:A:ILE:HD12	20	0.75	0.06	0.74
(1,1598)	1:149:A:MET:HE3	1:126:A:ILE:HD11	20	0.75	0.06	0.74
(1,2830)	1:97:A:ILE:HG23	1:119:A:VAL:HA	20	0.75	0.05	0.74
(1,2830)	1:97:A:ILE:HG21	1:119:A:VAL:HA	20	0.75	0.05	0.74
(1,2830)	1:97:A:ILE:HG22	1:119:A:VAL:HA	20	0.75	0.05	0.74
(1,1981)	1:71:A:LEU:HD23	1:40:A:LEU:HB3	20	0.75	0.22	0.66
(1,1981)	1:71:A:LEU:HD21	1:40:A:LEU:HB3	20	0.75	0.22	0.66
(1,1981)	1:71:A:LEU:HD22	1:40:A:LEU:HB3	20	0.75	0.22	0.66
(1,2180)	1:80:A:LYS:HD2	1:80:A:LYS:HB2	20	0.75	0.03	0.74
(1,1387)	1:165:A:GLN:HE22	1:165:A:GLN:HG3	20	0.74	0.01	0.74
(1,2800)	1:52:A:ILE:HG12	1:52:A:ILE:HA	20	0.74	0.01	0.74
(1,1760)	1:99:A:VAL:HG11	1:101:A:LEU:HD13	20	0.74	0.07	0.74
(1,1760)	1:99:A:VAL:HG13	1:101:A:LEU:HD11	20	0.74	0.07	0.74
(1,1760)	1:99:A:VAL:HG11	1:101:A:LEU:HD12	20	0.74	0.07	0.74
(1,1760)	1:99:A:VAL:HG11	1:101:A:LEU:HD11	20	0.74	0.07	0.74
(1,1760)	1:99:A:VAL:HG13	1:101:A:LEU:HD12	20	0.74	0.07	0.74
(1,1760)	1:99:A:VAL:HG12	1:101:A:LEU:HD12	20	0.74	0.07	0.74
(1,1760)	1:99:A:VAL:HG12	1:101:A:LEU:HD13	20	0.74	0.07	0.74
(1,1760)	1:99:A:VAL:HG13	1:101:A:LEU:HD13	20	0.74	0.07	0.74
(1,1760)	1:99:A:VAL:HG12	1:101:A:LEU:HD11	20	0.74	0.07	0.74
(1,497)	1:139:A:LEU:HA	1:128:A:ARG:HG3	20	0.74	0.1	0.76
(1,497)	1:139:A:LEU:HA	1:128:A:ARG:HB2	20	0.74	0.1	0.76
(1,1378)	1:41:A:ASN:HD22	1:45:A:THR:HG22	20	0.74	0.13	0.74
(1,1378)	1:41:A:ASN:HD22	1:45:A:THR:HG21	20	0.74	0.13	0.74
(1,1378)	1:41:A:ASN:HD22	1:45:A:THR:HG23	20	0.74	0.13	0.74
(1,2989)	1:43:A:ILE:HA	1:43:A:ILE:HD11	20	0.74	0.03	0.75
(1,2989)	1:43:A:ILE:HA	1:43:A:ILE:HD12	20	0.74	0.03	0.75
(1,2989)	1:43:A:ILE:HA	1:43:A:ILE:HD13	20	0.74	0.03	0.75
(1,1851)	1:170:A:THR:HG21	1:95:A:THR:HB	20	0.73	0.06	0.73
(1,1851)	1:170:A:THR:HG23	1:95:A:THR:HB	20	0.73	0.06	0.73
(1,1851)	1:170:A:THR:HG22	1:95:A:THR:HB	20	0.73	0.06	0.73
(1,318)	1:125:A:LEU:HA	1:126:A:ILE:HG21	20	0.73	0.08	0.76
(1,318)	1:125:A:LEU:HA	1:126:A:ILE:HG22	20	0.73	0.08	0.76
(1,318)	1:142:A:MET:HA	1:126:A:ILE:HG22	20	0.73	0.08	0.76
(1,318)	1:125:A:LEU:HA	1:126:A:ILE:HG23	20	0.73	0.08	0.76

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1965)	1:46:A:LYS:HG3	1:108:A:TYR:HE2	20	0.73	0.03	0.74
(1,2642)	1:85:A:ARG:HG3	1:85:A:ARG:HA	20	0.73	0.03	0.72
(1,1762)	1:99:A:VAL:HG13	1:66:A:LEU:HD12	20	0.72	0.07	0.74
(1,1762)	1:99:A:VAL:HG12	1:66:A:LEU:HD11	20	0.72	0.07	0.74
(1,1762)	1:99:A:VAL:HG13	1:66:A:LEU:HD11	20	0.72	0.07	0.74
(1,1762)	1:99:A:VAL:HG13	1:66:A:LEU:HD13	20	0.72	0.07	0.74
(1,1762)	1:99:A:VAL:HG12	1:66:A:LEU:HD12	20	0.72	0.07	0.74
(1,1762)	1:99:A:VAL:HG11	1:66:A:LEU:HD11	20	0.72	0.07	0.74
(1,1762)	1:99:A:VAL:HG11	1:66:A:LEU:HD12	20	0.72	0.07	0.74
(1,1762)	1:99:A:VAL:HG11	1:66:A:LEU:HD13	20	0.72	0.07	0.74
(1,1762)	1:99:A:VAL:HG12	1:66:A:LEU:HD13	20	0.72	0.07	0.74
(1,1832)	1:118:A:THR:HG22	1:113:A:LEU:HB3	20	0.72	0.06	0.72
(1,1832)	1:118:A:THR:HG23	1:113:A:LEU:HB3	20	0.72	0.06	0.72
(1,1832)	1:118:A:THR:HG21	1:113:A:LEU:HB3	20	0.72	0.06	0.72
(2,27)	1:171:A:ILE:H	1:167:A:ILE:O	20	0.72	0.07	0.72
(1,2149)	1:168:A:GLN:HB3	1:165:A:GLN:HA	20	0.71	0.13	0.73
(2,3)	1:78:A:PHE:H	1:153:A:HIS:O	20	0.71	0.11	0.72
(1,2672)	1:106:A:GLN:HG3	1:105:A:ASP:HA	20	0.7	0.66	0.2
(1,208)	1:93:A:LEU:HD21	1:170:A:THR:HG23	20	0.7	0.4	0.55
(1,208)	1:93:A:LEU:HD21	1:73:A:ARG:HB2	20	0.7	0.4	0.55
(1,208)	1:93:A:LEU:HD23	1:170:A:THR:HG21	20	0.7	0.4	0.55
(1,208)	1:93:A:LEU:HD21	1:170:A:THR:HG21	20	0.7	0.4	0.55
(1,208)	1:93:A:LEU:HD22	1:73:A:ARG:HB2	20	0.7	0.4	0.55
(1,208)	1:93:A:LEU:HD23	1:73:A:ARG:HB2	20	0.7	0.4	0.55
(1,3326)	1:50:A:LYS:HD2	1:50:A:LYS:HB2	20	0.7	0.26	0.81
(1,2621)	1:86:A:LEU:HD13	1:86:A:LEU:HA	20	0.69	0.03	0.7
(1,2621)	1:86:A:LEU:HD12	1:86:A:LEU:HA	20	0.69	0.03	0.7
(1,2621)	1:86:A:LEU:HD11	1:86:A:LEU:HA	20	0.69	0.03	0.7
(1,226)	1:85:A:ARG:HB2	1:85:A:ARG:HD2	20	0.69	0.06	0.71
(1,1799)	1:127:A:VAL:HG13	1:137:A:LEU:HD22	20	0.69	0.16	0.71
(1,1799)	1:127:A:VAL:HG11	1:137:A:LEU:HD22	20	0.69	0.16	0.71
(1,1799)	1:127:A:VAL:HG13	1:137:A:LEU:HD21	20	0.69	0.16	0.71
(1,1799)	1:127:A:VAL:HG12	1:137:A:LEU:HD21	20	0.69	0.16	0.71
(1,1799)	1:127:A:VAL:HG11	1:137:A:LEU:HD23	20	0.69	0.16	0.71
(1,1799)	1:127:A:VAL:HG12	1:137:A:LEU:HD22	20	0.69	0.16	0.71
(1,1799)	1:127:A:VAL:HG12	1:137:A:LEU:HD23	20	0.69	0.16	0.71
(1,1799)	1:127:A:VAL:HG11	1:137:A:LEU:HD21	20	0.69	0.16	0.71
(1,1799)	1:127:A:VAL:HG13	1:137:A:LEU:HD23	20	0.69	0.16	0.71
(1,3520)	1:132:A:HIS:HB3	1:132:A:HIS:HD2	20	0.68	0.02	0.69
(1,1654)	1:140:A:ILE:HG21	1:126:A:ILE:HG13	20	0.68	0.14	0.72
(1,1654)	1:140:A:ILE:HG22	1:126:A:ILE:HG13	20	0.68	0.14	0.72
(1,1654)	1:140:A:ILE:HG23	1:126:A:ILE:HG13	20	0.68	0.14	0.72

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1680)	1:130:A:VAL:HG21	1:136:A:GLY:HA2	20	0.68	0.28	0.71
(1,1680)	1:130:A:VAL:HG22	1:136:A:GLY:HA2	20	0.68	0.28	0.71
(1,1680)	1:130:A:VAL:HG23	1:136:A:GLY:HA2	20	0.68	0.28	0.71
(1,1859)	1:62:A:ALA:HB2	1:110:A:PHE:HZ	20	0.68	0.03	0.67
(1,1859)	1:62:A:ALA:HB1	1:110:A:PHE:HZ	20	0.68	0.03	0.67
(1,1859)	1:62:A:ALA:HB3	1:110:A:PHE:HZ	20	0.68	0.03	0.67
(1,1038)	1:170:A:THR:H	1:170:A:THR:HG22	20	0.68	0.02	0.68
(1,1038)	1:170:A:THR:H	1:170:A:THR:HG21	20	0.68	0.02	0.68
(1,1038)	1:170:A:THR:H	1:170:A:THR:HG23	20	0.68	0.02	0.68
(1,1151)	1:175:A:ASN:H	1:174:A:LEU:HD22	20	0.68	0.06	0.68
(1,1151)	1:175:A:ASN:H	1:174:A:LEU:HD21	20	0.68	0.06	0.68
(1,1151)	1:175:A:ASN:H	1:174:A:LEU:HD23	20	0.68	0.06	0.68
(2,15)	1:109:A:ILE:H	1:102:A:GLN:O	20	0.67	0.05	0.66
(1,3327)	1:50:A:LYS:HG2	1:50:A:LYS:HD2	20	0.67	0.01	0.68
(1,2653)	1:80:A:LYS:HA	1:80:A:LYS:HD3	20	0.67	0.07	0.68
(1,2629)	1:137:A:LEU:HA	1:130:A:VAL:HG21	20	0.67	0.12	0.66
(1,2629)	1:137:A:LEU:HA	1:130:A:VAL:HG22	20	0.67	0.12	0.66
(1,2629)	1:137:A:LEU:HA	1:130:A:VAL:HG23	20	0.67	0.12	0.66
(1,1739)	1:119:A:VAL:HG11	1:53:A:MET:HB2	20	0.67	0.1	0.64
(1,1739)	1:119:A:VAL:HG12	1:53:A:MET:HB2	20	0.67	0.1	0.64
(1,1739)	1:119:A:VAL:HG13	1:53:A:MET:HB2	20	0.67	0.1	0.64
(1,2019)	1:170:A:THR:HG23	1:93:A:LEU:HD11	20	0.66	0.19	0.6
(1,2019)	1:170:A:THR:HG22	1:93:A:LEU:HD12	20	0.66	0.19	0.6
(1,2019)	1:170:A:THR:HG22	1:93:A:LEU:HD11	20	0.66	0.19	0.6
(1,2019)	1:170:A:THR:HG21	1:93:A:LEU:HD12	20	0.66	0.19	0.6
(1,2019)	1:170:A:THR:HG23	1:93:A:LEU:HD12	20	0.66	0.19	0.6
(1,2019)	1:170:A:THR:HG23	1:93:A:LEU:HD13	20	0.66	0.19	0.6
(1,2019)	1:170:A:THR:HG21	1:93:A:LEU:HD13	20	0.66	0.19	0.6
(1,2019)	1:170:A:THR:HG22	1:93:A:LEU:HD13	20	0.66	0.19	0.6
(1,2773)	1:77:A:VAL:HA	1:152:A:VAL:HG13	20	0.66	0.06	0.66
(1,2773)	1:77:A:VAL:HA	1:152:A:VAL:HG12	20	0.66	0.06	0.66
(1,2773)	1:77:A:VAL:HA	1:152:A:VAL:HG11	20	0.66	0.06	0.66
(1,373)	1:30:A:LYS:HB2	1:33:A:SER:HB2	20	0.66	0.35	0.54
(1,2022)	1:93:A:LEU:HD11	1:72:A:VAL:H	20	0.66	0.22	0.61
(1,2022)	1:93:A:LEU:HD13	1:72:A:VAL:H	20	0.66	0.22	0.61
(1,2022)	1:93:A:LEU:HD12	1:72:A:VAL:H	20	0.66	0.22	0.61
(1,2179)	1:80:A:LYS:HD3	1:80:A:LYS:HB2	20	0.66	0.15	0.74
(1,1530)	1:167:A:ILE:HD11	1:168:A:GLN:HB3	20	0.66	0.14	0.63
(1,1530)	1:167:A:ILE:HD13	1:168:A:GLN:HB3	20	0.66	0.14	0.63
(1,1530)	1:167:A:ILE:HD12	1:168:A:GLN:HB3	20	0.66	0.14	0.63
(1,1163)	1:112:A:SER:H	1:111:A:ALA:HB1	20	0.66	0.04	0.66
(1,1163)	1:112:A:SER:H	1:111:A:ALA:HB3	20	0.66	0.04	0.66

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1163)	1:112:A:SER:H	1:111:A:ALA:HB2	20	0.66	0.04	0.66
(1,2943)	1:53:A:MET:HE3	1:53:A:MET:HG3	20	0.65	0.61	0.22
(1,2943)	1:53:A:MET:HE2	1:53:A:MET:HG3	20	0.65	0.61	0.22
(1,2943)	1:53:A:MET:HE1	1:53:A:MET:HG3	20	0.65	0.61	0.22
(1,159)	1:71:A:LEU:HD12	1:94:A:LEU:HA	20	0.65	0.11	0.67
(1,159)	1:71:A:LEU:HD13	1:94:A:LEU:HA	20	0.65	0.11	0.67
(1,159)	1:71:A:LEU:HD11	1:94:A:LEU:HA	20	0.65	0.11	0.67
(1,159)	1:71:A:LEU:HD23	1:94:A:LEU:HA	20	0.65	0.11	0.67
(1,159)	1:71:A:LEU:HD21	1:94:A:LEU:HA	20	0.65	0.11	0.67
(1,701)	1:137:A:LEU:H	1:130:A:VAL:HG21	20	0.65	0.41	0.52
(1,701)	1:137:A:LEU:H	1:130:A:VAL:HG22	20	0.65	0.41	0.52
(1,701)	1:137:A:LEU:H	1:130:A:VAL:HG23	20	0.65	0.41	0.52
(2,9)	1:93:A:LEU:H	1:73:A:ARG:O	20	0.65	0.15	0.68
(2,23)	1:163:A:TRP:H	1:159:A:GLU:O	20	0.65	0.04	0.66
(1,3260)	1:171:A:ILE:HA	1:125:A:LEU:HD13	20	0.65	0.07	0.64
(1,3260)	1:171:A:ILE:HA	1:125:A:LEU:HD11	20	0.65	0.07	0.64
(1,3260)	1:171:A:ILE:HA	1:125:A:LEU:HD12	20	0.65	0.07	0.64
(1,2739)	1:123:A:LYS:HD3	1:123:A:LYS:HA	20	0.65	0.23	0.66
(1,735)	1:99:A:VAL:H	1:99:A:VAL:HG21	20	0.65	0.02	0.65
(1,735)	1:99:A:VAL:H	1:99:A:VAL:HG23	20	0.65	0.02	0.65
(1,735)	1:99:A:VAL:H	1:99:A:VAL:HG22	20	0.65	0.02	0.65
(1,2451)	1:46:A:LYS:HD2	1:46:A:LYS:HE2	20	0.65	0.1	0.67
(1,2959)	1:110:A:PHE:HB2	1:119:A:VAL:HG11	20	0.65	0.13	0.71
(1,2959)	1:110:A:PHE:HB2	1:119:A:VAL:HG12	20	0.65	0.13	0.71
(1,2959)	1:110:A:PHE:HB2	1:119:A:VAL:HG13	20	0.65	0.13	0.71
(1,5)	1:120:A:ILE:H	1:97:A:ILE:HG23	20	0.64	0.12	0.62
(1,5)	1:120:A:ILE:H	1:97:A:ILE:HG21	20	0.64	0.12	0.62
(1,5)	1:120:A:ILE:H	1:97:A:ILE:HG22	20	0.64	0.12	0.62
(1,5)	1:120:A:ILE:H	1:97:A:ILE:HD13	20	0.64	0.12	0.62
(1,5)	1:120:A:ILE:H	1:97:A:ILE:HD11	20	0.64	0.12	0.62
(1,1470)	1:37:A:LYS:H	1:38:A:VAL:HG11	20	0.64	0.1	0.61
(1,1470)	1:37:A:LYS:H	1:38:A:VAL:HG12	20	0.64	0.1	0.61
(1,1470)	1:37:A:LYS:H	1:38:A:VAL:HG13	20	0.64	0.1	0.61
(1,2995)	1:24:A:ILE:HG13	1:24:A:ILE:HA	20	0.64	0.03	0.64
(1,627)	1:98:A:LEU:H	1:97:A:ILE:HG12	20	0.64	0.13	0.63
(2,25)	1:168:A:GLN:H	1:164:A:ILE:O	20	0.64	0.1	0.64
(1,2077)	1:182:A:ILE:HG13	1:182:A:ILE:HG23	20	0.63	0.07	0.62
(1,2077)	1:182:A:ILE:HG13	1:182:A:ILE:HG22	20	0.63	0.07	0.62
(1,2077)	1:182:A:ILE:HG13	1:182:A:ILE:HG21	20	0.63	0.07	0.62
(1,2206)	1:165:A:GLN:HB2	1:164:A:ILE:HG23	20	0.63	0.02	0.64
(1,2206)	1:165:A:GLN:HB2	1:164:A:ILE:HG21	20	0.63	0.02	0.64
(1,2206)	1:165:A:GLN:HB2	1:164:A:ILE:HG22	20	0.63	0.02	0.64

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,3310)	1:45:A:THR:HB	1:42:A:GLU:HB2	20	0.62	0.03	0.62
(1,2728)	1:127:A:VAL:HA	1:137:A:LEU:HD22	20	0.62	0.07	0.62
(1,2728)	1:127:A:VAL:HA	1:137:A:LEU:HD21	20	0.62	0.07	0.62
(1,2728)	1:127:A:VAL:HA	1:137:A:LEU:HD23	20	0.62	0.07	0.62
(1,2641)	1:85:A:ARG:HA	1:86:A:LEU:HD11	20	0.61	0.04	0.62
(1,2641)	1:85:A:ARG:HA	1:86:A:LEU:HD13	20	0.61	0.04	0.62
(1,2641)	1:85:A:ARG:HA	1:86:A:LEU:HD12	20	0.61	0.04	0.62
(1,397)	1:109:A:ILE:HA	1:110:A:PHE:HE2	20	0.61	0.07	0.6
(1,2282)	1:119:A:VAL:HB	1:97:A:ILE:HG21	20	0.61	0.05	0.61
(1,2282)	1:119:A:VAL:HB	1:97:A:ILE:HG22	20	0.61	0.05	0.61
(1,2282)	1:119:A:VAL:HB	1:97:A:ILE:HG23	20	0.61	0.05	0.61
(1,2324)	1:89:A:VAL:HG11	1:87:A:LYS:HB3	20	0.61	0.05	0.61
(1,2324)	1:89:A:VAL:HG12	1:87:A:LYS:HB3	20	0.61	0.05	0.61
(1,2324)	1:89:A:VAL:HG13	1:87:A:LYS:HB3	20	0.61	0.05	0.61
(1,3191)	1:33:A:SER:HA	1:32:A:ALA:HB2	20	0.61	0.04	0.6
(1,3191)	1:33:A:SER:HA	1:32:A:ALA:HB3	20	0.61	0.04	0.6
(1,3191)	1:33:A:SER:HA	1:32:A:ALA:HB1	20	0.61	0.04	0.6
(1,1566)	1:97:A:ILE:HD13	1:121:A:SER:HA	20	0.61	0.07	0.6
(1,1566)	1:97:A:ILE:HD11	1:121:A:SER:HA	20	0.61	0.07	0.6
(1,1566)	1:97:A:ILE:HD12	1:121:A:SER:HA	20	0.61	0.07	0.6
(1,1184)	1:109:A:ILE:H	1:109:A:ILE:HD13	20	0.6	0.07	0.62
(1,1184)	1:109:A:ILE:H	1:109:A:ILE:HD12	20	0.6	0.07	0.62
(1,1184)	1:109:A:ILE:H	1:109:A:ILE:HD11	20	0.6	0.07	0.62
(1,920)	1:31:A:VAL:H	1:32:A:ALA:HB2	20	0.6	0.06	0.62
(1,920)	1:31:A:VAL:H	1:32:A:ALA:HB3	20	0.6	0.06	0.62
(1,920)	1:31:A:VAL:H	1:32:A:ALA:HB1	20	0.6	0.06	0.62
(1,1835)	1:173:A:THR:HG22	1:176:A:ARG:HD3	20	0.6	0.42	0.38
(1,1835)	1:173:A:THR:HG23	1:176:A:ARG:HD3	20	0.6	0.42	0.38
(1,1835)	1:173:A:THR:HG21	1:176:A:ARG:HD3	20	0.6	0.42	0.38
(1,3448)	1:34:A:TYR:HD2	1:38:A:VAL:HG23	20	0.6	0.09	0.59
(1,3448)	1:34:A:TYR:HD2	1:38:A:VAL:HG21	20	0.6	0.09	0.59
(1,3448)	1:34:A:TYR:HD1	1:38:A:VAL:HG21	20	0.6	0.09	0.59
(1,3448)	1:34:A:TYR:HD1	1:38:A:VAL:HG23	20	0.6	0.09	0.59
(1,3448)	1:34:A:TYR:HD1	1:38:A:VAL:HG22	20	0.6	0.09	0.59
(2,4)	1:79:A:LEU:H	1:87:A:LYS:O	20	0.6	0.2	0.51
(1,3325)	1:112:A:SER:HA	1:53:A:MET:HE3	20	0.6	0.12	0.61
(1,3325)	1:112:A:SER:HA	1:53:A:MET:HE1	20	0.6	0.12	0.61
(1,3325)	1:112:A:SER:HA	1:53:A:MET:HE2	20	0.6	0.12	0.61
(1,2167)	1:67:A:LYS:HD3	1:67:A:LYS:H	20	0.59	0.12	0.64
(1,3352)	1:101:A:LEU:HD12	1:100:A:PHE:HA	20	0.59	0.03	0.6
(1,3352)	1:101:A:LEU:HD13	1:100:A:PHE:HA	20	0.59	0.03	0.6
(1,3352)	1:101:A:LEU:HD11	1:100:A:PHE:HA	20	0.59	0.03	0.6

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,360)	1:52:A:ILE:HA	1:60:A:MET:HE1	20	0.59	0.02	0.58
(1,360)	1:52:A:ILE:HA	1:60:A:MET:HE2	20	0.59	0.02	0.58
(1,360)	1:52:A:ILE:HA	1:60:A:MET:HE3	20	0.59	0.02	0.58
(1,3507)	1:43:A:ILE:HD13	1:108:A:TYR:HE2	20	0.59	0.07	0.58
(1,3507)	1:43:A:ILE:HD11	1:108:A:TYR:HE2	20	0.59	0.07	0.58
(1,3507)	1:43:A:ILE:HD12	1:108:A:TYR:HE2	20	0.59	0.07	0.58
(1,3263)	1:149:A:MET:HE1	1:142:A:MET:HE3	20	0.59	0.1	0.59
(1,3263)	1:149:A:MET:HE2	1:142:A:MET:HE1	20	0.59	0.1	0.59
(1,3263)	1:149:A:MET:HE2	1:142:A:MET:HE3	20	0.59	0.1	0.59
(1,3263)	1:149:A:MET:HE2	1:142:A:MET:HE2	20	0.59	0.1	0.59
(1,3263)	1:149:A:MET:HE1	1:142:A:MET:HE1	20	0.59	0.1	0.59
(1,3263)	1:149:A:MET:HE3	1:142:A:MET:HE1	20	0.59	0.1	0.59
(1,3263)	1:149:A:MET:HE3	1:142:A:MET:HE3	20	0.59	0.1	0.59
(1,3263)	1:149:A:MET:HE3	1:142:A:MET:HE2	20	0.59	0.1	0.59
(1,3429)	1:110:A:PHE:HZ	1:110:A:PHE:HD1	20	0.59	0.0	0.59
(1,100)	1:171:A:ILE:HD12	1:125:A:LEU:HB3	20	0.58	0.06	0.56
(1,100)	1:171:A:ILE:HD11	1:125:A:LEU:HB3	20	0.58	0.06	0.56
(1,100)	1:171:A:ILE:HD13	1:125:A:LEU:HB3	20	0.58	0.06	0.56
(1,3344)	1:149:A:MET:HE2	1:140:A:ILE:HG13	20	0.58	0.25	0.51
(1,3344)	1:149:A:MET:HE3	1:140:A:ILE:HG13	20	0.58	0.25	0.51
(1,3344)	1:149:A:MET:HE1	1:140:A:ILE:HG13	20	0.58	0.25	0.51
(1,101)	1:164:A:ILE:HD12	1:129:A:GLU:HB3	20	0.58	0.17	0.58
(1,101)	1:164:A:ILE:HD13	1:129:A:GLU:HB3	20	0.58	0.17	0.58
(1,101)	1:164:A:ILE:HD11	1:129:A:GLU:HB3	20	0.58	0.17	0.58
(1,2471)	1:157:A:LYS:HE3	1:157:A:LYS:HD3	20	0.58	0.01	0.58
(1,2945)	1:53:A:MET:HE1	1:52:A:ILE:HG21	20	0.58	0.04	0.57
(1,2945)	1:53:A:MET:HE3	1:52:A:ILE:HG22	20	0.58	0.04	0.57
(1,2945)	1:53:A:MET:HE1	1:52:A:ILE:HG22	20	0.58	0.04	0.57
(1,2945)	1:53:A:MET:HE3	1:52:A:ILE:HG23	20	0.58	0.04	0.57
(1,2945)	1:53:A:MET:HE1	1:52:A:ILE:HG23	20	0.58	0.04	0.57
(1,2945)	1:53:A:MET:HE3	1:52:A:ILE:HG21	20	0.58	0.04	0.57
(1,2945)	1:53:A:MET:HE2	1:52:A:ILE:HG22	20	0.58	0.04	0.57
(1,2945)	1:53:A:MET:HE2	1:52:A:ILE:HG21	20	0.58	0.04	0.57
(1,3312)	1:109:A:ILE:HA	1:109:A:ILE:HD13	20	0.57	0.02	0.58
(1,3312)	1:109:A:ILE:HA	1:109:A:ILE:HD12	20	0.57	0.02	0.58
(1,3312)	1:109:A:ILE:HA	1:109:A:ILE:HD11	20	0.57	0.02	0.58
(1,1453)	1:35:A:GLU:H	1:34:A:TYR:HB2	20	0.57	0.02	0.57
(1,2496)	1:140:A:ILE:HD12	1:128:A:ARG:HD3	20	0.57	0.05	0.56
(1,2496)	1:140:A:ILE:HD11	1:128:A:ARG:HD3	20	0.57	0.05	0.56
(1,2496)	1:140:A:ILE:HD13	1:128:A:ARG:HD3	20	0.57	0.05	0.56
(1,2144)	1:36:A:LYS:HD2	1:36:A:LYS:HB3	20	0.57	0.04	0.56
(1,1867)	1:19:A:LEU:HD22	1:19:A:LEU:HA	20	0.56	0.21	0.64

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1867)	1:19:A:LEU:HD21	1:19:A:LEU:HA	20	0.56	0.21	0.64
(1,1867)	1:19:A:LEU:HD23	1:19:A:LEU:HA	20	0.56	0.21	0.64
(1,124)	1:45:A:THR:HG21	1:46:A:LYS:HB3	20	0.56	0.05	0.56
(1,124)	1:45:A:THR:HG23	1:46:A:LYS:HB3	20	0.56	0.05	0.56
(1,124)	1:45:A:THR:HG22	1:46:A:LYS:HB3	20	0.56	0.05	0.56
(1,12)	1:140:A:ILE:H	1:127:A:VAL:HB	20	0.56	0.06	0.55
(1,455)	1:151:A:GLU:HB2	1:116:A:LYS:HD3	20	0.55	0.07	0.56
(1,455)	1:151:A:GLU:HB2	1:116:A:LYS:HD2	20	0.55	0.07	0.56
(1,2124)	1:137:A:LEU:HD12	1:137:A:LEU:HB3	20	0.55	0.04	0.56
(1,2124)	1:137:A:LEU:HD11	1:137:A:LEU:HB3	20	0.55	0.04	0.56
(1,2124)	1:137:A:LEU:HD13	1:137:A:LEU:HB3	20	0.55	0.04	0.56
(1,1843)	1:40:A:LEU:HD21	1:44:A:TYR:HA	20	0.55	0.06	0.55
(1,1843)	1:40:A:LEU:HD22	1:44:A:TYR:HA	20	0.55	0.06	0.55
(1,1843)	1:40:A:LEU:HD23	1:44:A:TYR:HA	20	0.55	0.06	0.55
(1,134)	1:77:A:VAL:HG11	1:163:A:TRP:HZ2	20	0.54	0.12	0.55
(1,134)	1:77:A:VAL:HG21	1:163:A:TRP:HZ2	20	0.54	0.12	0.55
(1,134)	1:77:A:VAL:HG12	1:163:A:TRP:HZ2	20	0.54	0.12	0.55
(1,134)	1:77:A:VAL:HG13	1:163:A:TRP:HZ2	20	0.54	0.12	0.55
(1,134)	1:77:A:VAL:HG22	1:163:A:TRP:HZ2	20	0.54	0.12	0.55
(1,134)	1:77:A:VAL:HG23	1:163:A:TRP:HZ2	20	0.54	0.12	0.55
(1,3271)	1:169:A:ASP:H	1:171:A:ILE:HD13	20	0.54	0.03	0.55
(1,3271)	1:169:A:ASP:H	1:171:A:ILE:HD12	20	0.54	0.03	0.55
(1,3271)	1:169:A:ASP:H	1:171:A:ILE:HD11	20	0.54	0.03	0.55
(1,3486)	1:138:A:PHE:HE2	1:128:A:ARG:HB3	20	0.54	0.2	0.6
(1,1946)	1:50:A:LYS:HG2	1:60:A:MET:HE2	20	0.54	0.33	0.4
(1,1946)	1:50:A:LYS:HG2	1:60:A:MET:HE3	20	0.54	0.33	0.4
(1,1946)	1:50:A:LYS:HG2	1:60:A:MET:HE1	20	0.54	0.33	0.4
(1,1208)	1:25:A:GLY:H	1:24:A:ILE:HD11	20	0.54	0.08	0.55
(1,1208)	1:25:A:GLY:H	1:24:A:ILE:HD13	20	0.54	0.08	0.55
(1,1208)	1:25:A:GLY:H	1:24:A:ILE:HD12	20	0.54	0.08	0.55
(1,2712)	1:46:A:LYS:HA	1:107:A:LYS:HB3	20	0.54	0.05	0.54
(1,432)	1:67:A:LYS:HE3	1:44:A:TYR:HD1	20	0.54	0.15	0.55
(1,432)	1:67:A:LYS:HE2	1:44:A:TYR:HD2	20	0.54	0.15	0.55
(1,432)	1:67:A:LYS:HE3	1:44:A:TYR:HD2	20	0.54	0.15	0.55
(1,2727)	1:139:A:LEU:HD22	1:127:A:VAL:HA	20	0.53	0.96	0.22
(1,2727)	1:139:A:LEU:HD23	1:127:A:VAL:HA	20	0.53	0.96	0.22
(1,2727)	1:139:A:LEU:HD21	1:127:A:VAL:HA	20	0.53	0.96	0.22
(1,2541)	1:136:A:GLY:HA2	1:130:A:VAL:HB	20	0.53	0.09	0.57
(1,160)	1:71:A:LEU:HD11	1:74:A:ASP:HA	20	0.53	0.16	0.52
(1,160)	1:71:A:LEU:HD12	1:74:A:ASP:HA	20	0.53	0.16	0.52
(1,160)	1:71:A:LEU:HD13	1:74:A:ASP:HA	20	0.53	0.16	0.52
(1,3399)	1:125:A:LEU:HD22	1:170:A:THR:HB	20	0.53	0.16	0.47

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,3399)	1:125:A:LEU:HD23	1:170:A:THR:HB	20	0.53	0.16	0.47
(1,3399)	1:125:A:LEU:HD21	1:170:A:THR:HB	20	0.53	0.16	0.47
(1,1677)	1:109:A:ILE:HG23	1:48:A:ASP:HA	20	0.52	0.03	0.52
(1,1677)	1:109:A:ILE:HG21	1:48:A:ASP:HA	20	0.52	0.03	0.52
(1,1677)	1:109:A:ILE:HG22	1:48:A:ASP:HA	20	0.52	0.03	0.52
(1,2720)	1:41:A:ASN:HA	1:44:A:TYR:HE1	20	0.52	0.12	0.55
(1,2720)	1:41:A:ASN:HA	1:44:A:TYR:HE2	20	0.52	0.12	0.55
(1,42)	1:76:A:SER:H	1:77:A:VAL:HG11	20	0.52	0.08	0.52
(1,42)	1:76:A:SER:H	1:77:A:VAL:HG13	20	0.52	0.08	0.52
(1,42)	1:76:A:SER:H	1:77:A:VAL:HG12	20	0.52	0.08	0.52
(1,42)	1:76:A:SER:H	1:77:A:VAL:HG21	20	0.52	0.08	0.52
(1,1564)	1:97:A:ILE:HD12	1:97:A:ILE:H	20	0.52	0.08	0.52
(1,1564)	1:97:A:ILE:HD13	1:97:A:ILE:H	20	0.52	0.08	0.52
(1,1564)	1:97:A:ILE:HD11	1:97:A:ILE:H	20	0.52	0.08	0.52
(1,813)	1:125:A:LEU:H	1:125:A:LEU:HB2	20	0.52	0.01	0.52
(1,170)	1:107:A:LYS:HG3	1:46:A:LYS:HA	20	0.52	0.07	0.5
(1,347)	1:162:A:SER:HB3	1:166:A:ILE:HD12	20	0.51	0.28	0.48
(1,347)	1:162:A:SER:HB3	1:166:A:ILE:HD11	20	0.51	0.28	0.48
(1,347)	1:162:A:SER:HB3	1:166:A:ILE:HD13	20	0.51	0.28	0.48
(1,2826)	1:147:A:PRO:HA	1:140:A:ILE:HG23	20	0.51	0.09	0.55
(1,2826)	1:147:A:PRO:HA	1:140:A:ILE:HG21	20	0.51	0.09	0.55
(1,2826)	1:147:A:PRO:HA	1:140:A:ILE:HG22	20	0.51	0.09	0.55
(1,56)	1:106:A:GLN:H	1:106:A:GLN:HG3	20	0.51	0.3	0.28
(1,56)	1:106:A:GLN:H	1:106:A:GLN:HB2	20	0.51	0.3	0.28
(1,465)	1:38:A:VAL:HG21	1:37:A:LYS:HE2	20	0.51	0.09	0.48
(1,465)	1:38:A:VAL:HG22	1:37:A:LYS:HE2	20	0.51	0.09	0.48
(1,465)	1:38:A:VAL:HG22	1:37:A:LYS:HE3	20	0.51	0.09	0.48
(1,465)	1:38:A:VAL:HG21	1:37:A:LYS:HE3	20	0.51	0.09	0.48
(1,465)	1:38:A:VAL:HG23	1:37:A:LYS:HE2	20	0.51	0.09	0.48
(1,465)	1:38:A:VAL:HG23	1:37:A:LYS:HE3	20	0.51	0.09	0.48
(1,3281)	1:101:A:LEU:HD11	1:109:A:ILE:H	20	0.51	0.02	0.5
(1,3281)	1:101:A:LEU:HD12	1:109:A:ILE:H	20	0.51	0.02	0.5
(1,3281)	1:101:A:LEU:HD13	1:109:A:ILE:H	20	0.51	0.02	0.5
(1,384)	1:169:A:ASP:HA	1:165:A:GLN:HG3	20	0.51	0.03	0.51
(1,3197)	1:111:A:ALA:HB1	1:118:A:THR:HA	20	0.51	0.05	0.48
(1,3197)	1:111:A:ALA:HB3	1:118:A:THR:HA	20	0.51	0.05	0.48
(1,3197)	1:111:A:ALA:HB2	1:118:A:THR:HA	20	0.51	0.05	0.48
(1,1088)	1:166:A:ILE:H	1:166:A:ILE:HD13	20	0.5	0.34	0.36
(1,1088)	1:166:A:ILE:H	1:166:A:ILE:HD12	20	0.5	0.34	0.36
(1,1088)	1:166:A:ILE:H	1:166:A:ILE:HD11	20	0.5	0.34	0.36
(1,1950)	1:94:A:LEU:HD23	1:71:A:LEU:HA	20	0.5	0.12	0.54
(1,1950)	1:94:A:LEU:HD22	1:71:A:LEU:HA	20	0.5	0.12	0.54

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1950)	1:94:A:LEU:HD21	1:71:A:LEU:HA	20	0.5	0.12	0.54
(1,3266)	1:52:A:ILE:HD13	1:60:A:MET:H	20	0.5	0.03	0.52
(1,3266)	1:52:A:ILE:HD11	1:60:A:MET:H	20	0.5	0.03	0.52
(1,3266)	1:52:A:ILE:HD12	1:60:A:MET:H	20	0.5	0.03	0.52
(1,1698)	1:91:A:ALA:HB1	1:98:A:LEU:HD23	20	0.5	0.08	0.51
(1,1698)	1:91:A:ALA:HB2	1:98:A:LEU:HD23	20	0.5	0.08	0.51
(1,1698)	1:91:A:ALA:HB1	1:98:A:LEU:HD21	20	0.5	0.08	0.51
(1,1698)	1:91:A:ALA:HB2	1:98:A:LEU:HD21	20	0.5	0.08	0.51
(1,1698)	1:91:A:ALA:HB2	1:98:A:LEU:HD22	20	0.5	0.08	0.51
(1,1698)	1:91:A:ALA:HB1	1:98:A:LEU:HD22	20	0.5	0.08	0.51
(1,1698)	1:91:A:ALA:HB3	1:98:A:LEU:HD21	20	0.5	0.08	0.51
(1,3427)	1:61:A:PHE:HZ	1:61:A:PHE:HD1	20	0.5	0.01	0.5
(1,3427)	1:61:A:PHE:HZ	1:61:A:PHE:HD2	20	0.5	0.01	0.5
(1,3100)	1:128:A:ARG:HB3	1:128:A:ARG:HD2	20	0.5	0.1	0.54
(1,3397)	1:45:A:THR:HG22	1:42:A:GLU:HG3	20	0.5	0.1	0.51
(1,3397)	1:45:A:THR:HG21	1:42:A:GLU:HG3	20	0.5	0.1	0.51
(1,3397)	1:45:A:THR:HG23	1:42:A:GLU:HG3	20	0.5	0.1	0.51
(1,3156)	1:142:A:MET:HE3	1:142:A:MET:HA	20	0.5	0.07	0.52
(1,3156)	1:142:A:MET:HE1	1:142:A:MET:HA	20	0.5	0.07	0.52
(1,3156)	1:142:A:MET:HE2	1:142:A:MET:HA	20	0.5	0.07	0.52
(1,3067)	1:130:A:VAL:HG13	1:130:A:VAL:HA	20	0.49	0.02	0.49
(1,3067)	1:130:A:VAL:HG11	1:130:A:VAL:HA	20	0.49	0.02	0.49
(1,3067)	1:130:A:VAL:HG12	1:130:A:VAL:HA	20	0.49	0.02	0.49
(1,482)	1:19:A:LEU:HG	1:19:A:LEU:HD21	20	0.49	0.04	0.5
(1,482)	1:19:A:LEU:HG	1:19:A:LEU:HD23	20	0.49	0.04	0.5
(1,482)	1:19:A:LEU:HG	1:19:A:LEU:HD22	20	0.49	0.04	0.5
(1,884)	1:129:A:GLU:H	1:128:A:ARG:HB2	20	0.49	0.12	0.48
(1,315)	1:82:A:ALA:HA	1:116:A:LYS:HG3	20	0.49	0.16	0.42
(1,1977)	1:101:A:LEU:HD13	1:110:A:PHE:HA	20	0.49	0.09	0.46
(1,1977)	1:101:A:LEU:HD11	1:110:A:PHE:HA	20	0.49	0.09	0.46
(1,1977)	1:101:A:LEU:HD12	1:110:A:PHE:HA	20	0.49	0.09	0.46
(1,272)	1:87:A:LYS:HE3	1:111:A:ALA:HB3	20	0.49	0.17	0.46
(1,272)	1:87:A:LYS:HE3	1:111:A:ALA:HB2	20	0.49	0.17	0.46
(1,272)	1:87:A:LYS:HE3	1:79:A:LEU:HB2	20	0.49	0.17	0.46
(1,272)	1:87:A:LYS:HE3	1:111:A:ALA:HB1	20	0.49	0.17	0.46
(1,1258)	1:75:A:GLY:H	1:74:A:ASP:HB3	20	0.49	0.04	0.49
(1,558)	1:93:A:LEU:H	1:91:A:ALA:HB1	20	0.49	0.05	0.5
(1,558)	1:93:A:LEU:H	1:91:A:ALA:HB2	20	0.49	0.05	0.5
(1,558)	1:93:A:LEU:H	1:91:A:ALA:HB3	20	0.49	0.05	0.5
(1,1560)	1:97:A:ILE:HD12	1:69:A:LYS:HE3	20	0.49	0.16	0.44
(1,1560)	1:97:A:ILE:HD11	1:69:A:LYS:HE3	20	0.49	0.16	0.44
(1,1560)	1:97:A:ILE:HD13	1:69:A:LYS:HE3	20	0.49	0.16	0.44

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,3308)	1:53:A:MET:HE3	1:119:A:VAL:H	20	0.49	0.1	0.45
(1,3308)	1:53:A:MET:HE2	1:119:A:VAL:H	20	0.49	0.1	0.45
(1,3308)	1:53:A:MET:HE1	1:119:A:VAL:H	20	0.49	0.1	0.45
(1,3021)	1:140:A:ILE:HD11	1:138:A:PHE:HE2	20	0.48	0.09	0.49
(1,3021)	1:140:A:ILE:HD12	1:138:A:PHE:HE2	20	0.48	0.09	0.49
(1,3021)	1:140:A:ILE:HD13	1:138:A:PHE:HE2	20	0.48	0.09	0.49
(1,1482)	1:60:A:MET:H	1:59:A:GLN:HB3	20	0.48	0.03	0.48
(1,1577)	1:164:A:ILE:HD13	1:164:A:ILE:HA	20	0.48	0.01	0.48
(1,1577)	1:164:A:ILE:HD11	1:164:A:ILE:HA	20	0.48	0.01	0.48
(1,1577)	1:164:A:ILE:HD12	1:164:A:ILE:HA	20	0.48	0.01	0.48
(1,1012)	1:47:A:THR:H	1:47:A:THR:HG23	20	0.48	0.03	0.47
(1,1012)	1:47:A:THR:H	1:47:A:THR:HG21	20	0.48	0.03	0.47
(1,1012)	1:47:A:THR:H	1:47:A:THR:HG22	20	0.48	0.03	0.47
(1,38)	1:138:A:PHE:H	1:164:A:ILE:HD12	20	0.48	0.07	0.47
(1,38)	1:138:A:PHE:H	1:164:A:ILE:HD13	20	0.48	0.07	0.47
(1,38)	1:138:A:PHE:H	1:164:A:ILE:HD11	20	0.48	0.07	0.47
(1,1866)	1:95:A:THR:HG23	1:72:A:VAL:HA	20	0.48	0.06	0.48
(1,1866)	1:95:A:THR:HG21	1:72:A:VAL:HA	20	0.48	0.06	0.48
(1,1866)	1:95:A:THR:HG22	1:72:A:VAL:HA	20	0.48	0.06	0.48
(1,1666)	1:97:A:ILE:HG23	1:119:A:VAL:HG23	20	0.48	0.17	0.53
(1,1666)	1:97:A:ILE:HG22	1:119:A:VAL:HG23	20	0.48	0.17	0.53
(1,1666)	1:97:A:ILE:HG22	1:119:A:VAL:HG22	20	0.48	0.17	0.53
(1,1666)	1:97:A:ILE:HG21	1:119:A:VAL:HG21	20	0.48	0.17	0.53
(1,1666)	1:97:A:ILE:HG23	1:119:A:VAL:HG21	20	0.48	0.17	0.53
(1,1666)	1:97:A:ILE:HG23	1:119:A:VAL:HG22	20	0.48	0.17	0.53
(1,1666)	1:97:A:ILE:HG22	1:119:A:VAL:HG21	20	0.48	0.17	0.53
(1,1666)	1:97:A:ILE:HG21	1:119:A:VAL:HG22	20	0.48	0.17	0.53
(1,1666)	1:97:A:ILE:HG21	1:119:A:VAL:HG23	20	0.48	0.17	0.53
(1,3169)	1:101:A:LEU:HD23	1:108:A:TYR:HA	20	0.48	0.02	0.48
(1,3169)	1:101:A:LEU:HD21	1:108:A:TYR:HA	20	0.48	0.02	0.48
(1,3169)	1:101:A:LEU:HD22	1:108:A:TYR:HA	20	0.48	0.02	0.48
(1,1342)	1:100:A:PHE:H	1:98:A:LEU:HD21	20	0.47	0.11	0.46
(1,1342)	1:100:A:PHE:H	1:98:A:LEU:HD23	20	0.47	0.11	0.46
(1,1342)	1:100:A:PHE:H	1:98:A:LEU:HD22	20	0.47	0.11	0.46
(1,2758)	1:44:A:TYR:HA	1:44:A:TYR:HE2	20	0.47	0.07	0.46
(1,2758)	1:44:A:TYR:HA	1:44:A:TYR:HE1	20	0.47	0.07	0.46
(1,3304)	1:119:A:VAL:HG21	1:110:A:PHE:HZ	20	0.47	0.03	0.46
(1,3304)	1:119:A:VAL:HG23	1:110:A:PHE:HZ	20	0.47	0.03	0.46
(1,3304)	1:119:A:VAL:HG22	1:110:A:PHE:HZ	20	0.47	0.03	0.46
(1,1742)	1:119:A:VAL:HG12	1:110:A:PHE:HE1	20	0.47	0.15	0.42
(1,1742)	1:119:A:VAL:HG13	1:110:A:PHE:HE1	20	0.47	0.15	0.42
(1,1742)	1:119:A:VAL:HG11	1:110:A:PHE:HE1	20	0.47	0.15	0.42

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1970)	1:101:A:LEU:HD13	1:99:A:VAL:HG21	20	0.46	0.04	0.47
(1,1970)	1:101:A:LEU:HD11	1:99:A:VAL:HG21	20	0.46	0.04	0.47
(1,1970)	1:101:A:LEU:HD12	1:99:A:VAL:HG21	20	0.46	0.04	0.47
(1,1970)	1:101:A:LEU:HD13	1:99:A:VAL:HG23	20	0.46	0.04	0.47
(1,1970)	1:101:A:LEU:HD12	1:99:A:VAL:HG23	20	0.46	0.04	0.47
(1,1970)	1:101:A:LEU:HD13	1:99:A:VAL:HG22	20	0.46	0.04	0.47
(1,1970)	1:101:A:LEU:HD11	1:99:A:VAL:HG23	20	0.46	0.04	0.47
(1,1970)	1:101:A:LEU:HD11	1:99:A:VAL:HG22	20	0.46	0.04	0.47
(1,1877)	1:66:A:LEU:HD23	1:44:A:TYR:HA	20	0.46	0.08	0.48
(1,1877)	1:66:A:LEU:HD21	1:44:A:TYR:HA	20	0.46	0.08	0.48
(1,1877)	1:66:A:LEU:HD22	1:44:A:TYR:HA	20	0.46	0.08	0.48
(1,1061)	1:172:A:ASN:H	1:171:A:ILE:HD11	20	0.46	0.04	0.46
(1,1061)	1:172:A:ASN:H	1:171:A:ILE:HD13	20	0.46	0.04	0.46
(1,1061)	1:172:A:ASN:H	1:171:A:ILE:HD12	20	0.46	0.04	0.46
(1,671)	1:140:A:ILE:H	1:140:A:ILE:HG23	20	0.46	0.02	0.46
(1,671)	1:140:A:ILE:H	1:140:A:ILE:HG21	20	0.46	0.02	0.46
(1,671)	1:140:A:ILE:H	1:140:A:ILE:HG22	20	0.46	0.02	0.46
(1,237)	1:20:A:VAL:HB	1:20:A:VAL:HG12	20	0.46	0.02	0.46
(1,237)	1:20:A:VAL:HG21	1:20:A:VAL:HB	20	0.46	0.02	0.46
(1,237)	1:20:A:VAL:HG23	1:20:A:VAL:HB	20	0.46	0.02	0.46
(1,237)	1:20:A:VAL:HB	1:20:A:VAL:HG13	20	0.46	0.02	0.46
(1,237)	1:20:A:VAL:HG22	1:20:A:VAL:HB	20	0.46	0.02	0.46
(1,237)	1:20:A:VAL:HB	1:20:A:VAL:HG11	20	0.46	0.02	0.46
(1,2477)	1:80:A:LYS:HE3	1:80:A:LYS:HB2	20	0.46	0.06	0.44
(1,3149)	1:47:A:THR:HG23	1:63:A:LYS:HE2	20	0.46	0.06	0.48
(1,3149)	1:47:A:THR:HG21	1:63:A:LYS:HE2	20	0.46	0.06	0.48
(1,3149)	1:47:A:THR:HG22	1:63:A:LYS:HE2	20	0.46	0.06	0.48
(1,1575)	1:164:A:ILE:HD11	1:161:A:ASN:HB3	20	0.45	0.14	0.49
(1,1575)	1:164:A:ILE:HD12	1:161:A:ASN:HB3	20	0.45	0.14	0.49
(1,1575)	1:164:A:ILE:HD13	1:161:A:ASN:HB3	20	0.45	0.14	0.49
(1,3185)	1:142:A:MET:HA	1:147:A:PRO:HB2	20	0.45	0.05	0.46
(1,2475)	1:80:A:LYS:HE2	1:86:A:LEU:HD12	20	0.45	0.03	0.46
(1,2475)	1:80:A:LYS:HE2	1:86:A:LEU:HD11	20	0.45	0.03	0.46
(1,2475)	1:80:A:LYS:HE2	1:86:A:LEU:HD13	20	0.45	0.03	0.46
(1,3198)	1:101:A:LEU:HD21	1:110:A:PHE:HZ	20	0.45	0.05	0.44
(1,3198)	1:101:A:LEU:HD22	1:110:A:PHE:HZ	20	0.45	0.05	0.44
(1,3198)	1:101:A:LEU:HD23	1:110:A:PHE:HZ	20	0.45	0.05	0.44
(1,3267)	1:167:A:ILE:HD11	1:171:A:ILE:H	20	0.45	0.04	0.46
(1,3267)	1:167:A:ILE:HD13	1:171:A:ILE:H	20	0.45	0.04	0.46
(1,3267)	1:167:A:ILE:HD12	1:171:A:ILE:H	20	0.45	0.04	0.46
(1,2440)	1:28:A:ASP:HB3	1:25:A:GLY:HA3	20	0.45	0.06	0.44
(1,3268)	1:163:A:TRP:H	1:164:A:ILE:HD11	20	0.45	0.02	0.44

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,3268)	1:163:A:TRP:H	1:164:A:ILE:HD12	20	0.45	0.02	0.44
(1,3268)	1:163:A:TRP:H	1:164:A:ILE:HD13	20	0.45	0.02	0.44
(1,1750)	1:145:A:THR:HG22	1:145:A:THR:HB	20	0.44	0.01	0.44
(1,1750)	1:145:A:THR:HG23	1:145:A:THR:HB	20	0.44	0.01	0.44
(1,1750)	1:145:A:THR:HG21	1:145:A:THR:HB	20	0.44	0.01	0.44
(1,3369)	1:174:A:LEU:HD21	1:95:A:THR:HG21	20	0.44	0.11	0.44
(1,3369)	1:174:A:LEU:HD23	1:95:A:THR:HG22	20	0.44	0.11	0.44
(1,3369)	1:174:A:LEU:HD23	1:95:A:THR:HG21	20	0.44	0.11	0.44
(1,3369)	1:174:A:LEU:HD22	1:95:A:THR:HG21	20	0.44	0.11	0.44
(1,3369)	1:174:A:LEU:HD23	1:95:A:THR:HG23	20	0.44	0.11	0.44
(1,3369)	1:174:A:LEU:HD21	1:95:A:THR:HG23	20	0.44	0.11	0.44
(1,3369)	1:174:A:LEU:HD21	1:95:A:THR:HG22	20	0.44	0.11	0.44
(1,3369)	1:174:A:LEU:HD22	1:95:A:THR:HG23	20	0.44	0.11	0.44
(1,3369)	1:174:A:LEU:HD22	1:95:A:THR:HG22	20	0.44	0.11	0.44
(1,667)	1:24:A:ILE:H	1:27:A:VAL:HG23	20	0.44	0.07	0.42
(1,667)	1:24:A:ILE:H	1:27:A:VAL:HG21	20	0.44	0.07	0.42
(1,667)	1:24:A:ILE:H	1:27:A:VAL:HG22	20	0.44	0.07	0.42
(1,3313)	1:109:A:ILE:HD13	1:104:A:LYS:HA	20	0.44	0.06	0.44
(1,3313)	1:109:A:ILE:HD12	1:104:A:LYS:HA	20	0.44	0.06	0.44
(1,3313)	1:109:A:ILE:HD11	1:104:A:LYS:HA	20	0.44	0.06	0.44
(1,116)	1:89:A:VAL:HG11	1:87:A:LYS:HD3	20	0.44	0.09	0.45
(1,116)	1:89:A:VAL:HG12	1:87:A:LYS:HD3	20	0.44	0.09	0.45
(1,116)	1:89:A:VAL:HG13	1:87:A:LYS:HD3	20	0.44	0.09	0.45
(1,3152)	1:97:A:ILE:HD12	1:65:A:ASP:HB3	20	0.44	0.21	0.41
(1,3152)	1:97:A:ILE:HD13	1:65:A:ASP:HB3	20	0.44	0.21	0.41
(1,3152)	1:97:A:ILE:HD11	1:65:A:ASP:HB3	20	0.44	0.21	0.41
(1,89)	1:127:A:VAL:H	1:127:A:VAL:HG23	20	0.44	0.08	0.44
(1,89)	1:127:A:VAL:H	1:127:A:VAL:HG11	20	0.44	0.08	0.44
(1,89)	1:127:A:VAL:H	1:127:A:VAL:HG21	20	0.44	0.08	0.44
(1,89)	1:127:A:VAL:H	1:127:A:VAL:HG22	20	0.44	0.08	0.44
(1,89)	1:127:A:VAL:H	1:127:A:VAL:HG13	20	0.44	0.08	0.44
(1,1720)	1:154:A:ALA:HB3	1:77:A:VAL:HG13	20	0.44	0.14	0.44
(1,1720)	1:154:A:ALA:HB3	1:77:A:VAL:HG12	20	0.44	0.14	0.44
(1,1720)	1:154:A:ALA:HB1	1:77:A:VAL:HG13	20	0.44	0.14	0.44
(1,1720)	1:154:A:ALA:HB1	1:77:A:VAL:HG12	20	0.44	0.14	0.44
(1,1720)	1:154:A:ALA:HB2	1:77:A:VAL:HG12	20	0.44	0.14	0.44
(1,1720)	1:154:A:ALA:HB1	1:77:A:VAL:HG11	20	0.44	0.14	0.44
(1,1720)	1:154:A:ALA:HB3	1:77:A:VAL:HG11	20	0.44	0.14	0.44
(1,1720)	1:154:A:ALA:HB2	1:77:A:VAL:HG11	20	0.44	0.14	0.44
(1,306)	1:24:A:ILE:HG23	1:25:A:GLY:HA3	20	0.44	0.02	0.44
(1,306)	1:24:A:ILE:HG21	1:25:A:GLY:HA3	20	0.44	0.02	0.44
(1,306)	1:24:A:ILE:HG22	1:25:A:GLY:HA3	20	0.44	0.02	0.44

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2384)	1:35:A:GLU:HG3	1:38:A:VAL:HG23	20	0.44	0.08	0.41
(1,2384)	1:35:A:GLU:HG3	1:38:A:VAL:HG21	20	0.44	0.08	0.41
(1,2384)	1:35:A:GLU:HG3	1:38:A:VAL:HG22	20	0.44	0.08	0.41
(1,148)	1:30:A:LYS:HG2	1:30:A:LYS:HD3	20	0.44	0.02	0.43
(2,26)	1:169:A:ASP:H	1:166:A:ILE:O	20	0.43	0.06	0.42
(1,2075)	1:98:A:LEU:HD11	1:100:A:PHE:HZ	20	0.43	0.09	0.46
(1,2075)	1:98:A:LEU:HD12	1:100:A:PHE:HZ	20	0.43	0.09	0.46
(1,2075)	1:98:A:LEU:HD13	1:100:A:PHE:HZ	20	0.43	0.09	0.46
(1,1504)	1:163:A:TRP:HE1	1:75:A:GLY:HA2	20	0.43	0.18	0.42
(1,1731)	1:31:A:VAL:HG11	1:32:A:ALA:HA	20	0.43	0.04	0.45
(1,1731)	1:31:A:VAL:HG13	1:32:A:ALA:HA	20	0.43	0.04	0.45
(1,1731)	1:31:A:VAL:HG12	1:32:A:ALA:HA	20	0.43	0.04	0.45
(1,2379)	1:178:A:GLU:HG2	1:178:A:GLU:HB2	20	0.43	0.27	0.45
(1,2942)	1:110:A:PHE:HB2	1:53:A:MET:HE2	20	0.43	0.09	0.4
(1,2942)	1:110:A:PHE:HB2	1:53:A:MET:HE3	20	0.43	0.09	0.4
(1,2942)	1:110:A:PHE:HB2	1:53:A:MET:HE1	20	0.43	0.09	0.4
(1,2793)	1:120:A:ILE:HD13	1:118:A:THR:HA	20	0.43	0.07	0.43
(1,2793)	1:120:A:ILE:HD11	1:118:A:THR:HA	20	0.43	0.07	0.43
(1,2793)	1:120:A:ILE:HD12	1:118:A:THR:HA	20	0.43	0.07	0.43
(1,2109)	1:24:A:ILE:HG12	1:24:A:ILE:HB	20	0.42	0.01	0.42
(1,290)	1:83:A:ALA:HB2	1:85:A:ARG:HD3	20	0.42	0.14	0.36
(1,290)	1:83:A:ALA:HB1	1:85:A:ARG:HD3	20	0.42	0.14	0.36
(1,290)	1:83:A:ALA:HB3	1:85:A:ARG:HD3	20	0.42	0.14	0.36
(1,14)	1:128:A:ARG:H	1:127:A:VAL:HB	20	0.42	0.02	0.42
(1,2582)	1:53:A:MET:HA	1:53:A:MET:HE2	20	0.42	0.04	0.42
(1,2582)	1:53:A:MET:HA	1:53:A:MET:HE3	20	0.42	0.04	0.42
(1,2582)	1:53:A:MET:HA	1:53:A:MET:HE1	20	0.42	0.04	0.42
(1,2567)	1:146:A:ASP:HA	1:147:A:PRO:HG2	20	0.42	0.07	0.43
(1,412)	1:30:A:LYS:HG3	1:30:A:LYS:HD2	20	0.42	0.06	0.43
(1,412)	1:21:A:LYS:HD2	1:14:A:ALA:HB1	20	0.42	0.06	0.43
(1,412)	1:21:A:LYS:HD2	1:21:A:LYS:HG3	20	0.42	0.06	0.43
(1,1957)	1:66:A:LEU:HD13	1:66:A:LEU:HB3	20	0.42	0.08	0.44
(1,1957)	1:66:A:LEU:HD12	1:66:A:LEU:HB3	20	0.42	0.08	0.44
(1,1957)	1:66:A:LEU:HD11	1:66:A:LEU:HB3	20	0.42	0.08	0.44
(1,1932)	1:94:A:LEU:HD23	1:94:A:LEU:HA	20	0.42	0.08	0.4
(1,1932)	1:94:A:LEU:HD22	1:94:A:LEU:HA	20	0.42	0.08	0.4
(1,1932)	1:94:A:LEU:HD21	1:94:A:LEU:HA	20	0.42	0.08	0.4
(1,363)	1:37:A:LYS:HA	1:37:A:LYS:HE3	20	0.41	0.14	0.36
(1,363)	1:37:A:LYS:HA	1:37:A:LYS:HE2	20	0.41	0.14	0.36
(1,1755)	1:99:A:VAL:HG22	1:99:A:VAL:HG13	20	0.41	0.02	0.4
(1,1755)	1:99:A:VAL:HG22	1:99:A:VAL:HG12	20	0.41	0.02	0.4
(1,1755)	1:99:A:VAL:HG21	1:99:A:VAL:HG13	20	0.41	0.02	0.4

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1755)	1:99:A:VAL:HG21	1:99:A:VAL:HG11	20	0.41	0.02	0.4
(1,1755)	1:99:A:VAL:HG23	1:99:A:VAL:HG11	20	0.41	0.02	0.4
(1,1755)	1:99:A:VAL:HG22	1:99:A:VAL:HG11	20	0.41	0.02	0.4
(1,1602)	1:149:A:MET:HE2	1:138:A:PHE:HD2	20	0.41	0.07	0.39
(1,1602)	1:149:A:MET:HE3	1:138:A:PHE:HD2	20	0.41	0.07	0.39
(1,1602)	1:149:A:MET:HE1	1:138:A:PHE:HD2	20	0.41	0.07	0.39
(1,1602)	1:149:A:MET:HE1	1:138:A:PHE:HD1	20	0.41	0.07	0.39
(1,1602)	1:149:A:MET:HE2	1:138:A:PHE:HD1	20	0.41	0.07	0.39
(2,21)	1:161:A:ASN:H	1:158:A:GLU:O	20	0.41	0.12	0.42
(1,171)	1:107:A:LYS:HG3	1:47:A:THR:HA	20	0.41	0.08	0.4
(1,1456)	1:35:A:GLU:H	1:35:A:GLU:HB3	20	0.4	0.01	0.41
(1,823)	1:86:A:LEU:H	1:85:A:ARG:HB2	20	0.4	0.08	0.4
(1,2767)	1:36:A:LYS:HG2	1:36:A:LYS:HA	20	0.4	0.03	0.39
(1,1642)	1:52:A:ILE:HG23	1:52:A:ILE:HG13	20	0.4	0.04	0.39
(1,1642)	1:52:A:ILE:HG21	1:52:A:ILE:HG13	20	0.4	0.04	0.39
(1,1642)	1:52:A:ILE:HG22	1:52:A:ILE:HG13	20	0.4	0.04	0.39
(1,2311)	1:59:A:GLN:HG2	1:59:A:GLN:HB2	20	0.4	0.01	0.4
(1,1958)	1:66:A:LEU:HD13	1:44:A:TYR:HB2	20	0.4	0.1	0.4
(1,1958)	1:66:A:LEU:HD12	1:44:A:TYR:HB2	20	0.4	0.1	0.4
(1,1958)	1:66:A:LEU:HD11	1:44:A:TYR:HB2	20	0.4	0.1	0.4
(1,2794)	1:34:A:TYR:HA	1:38:A:VAL:HG21	20	0.4	0.03	0.4
(1,2794)	1:34:A:TYR:HA	1:38:A:VAL:HG22	20	0.4	0.03	0.4
(1,2794)	1:34:A:TYR:HA	1:38:A:VAL:HG23	20	0.4	0.03	0.4
(1,3519)	1:44:A:TYR:HD1	1:44:A:TYR:HE1	20	0.4	0.01	0.4
(1,3519)	1:44:A:TYR:HD2	1:44:A:TYR:HE2	20	0.4	0.01	0.4
(1,3091)	1:55:A:MET:HE3	1:55:A:MET:HA	20	0.39	0.03	0.39
(1,3091)	1:55:A:MET:HE2	1:55:A:MET:HA	20	0.39	0.03	0.39
(1,3091)	1:55:A:MET:HE1	1:55:A:MET:HA	20	0.39	0.03	0.39
(1,168)	1:107:A:LYS:HG2	1:106:A:GLN:HG3	20	0.39	0.13	0.34
(1,1001)	1:119:A:VAL:H	1:119:A:VAL:HG23	20	0.39	0.07	0.38
(1,1001)	1:119:A:VAL:H	1:119:A:VAL:HG22	20	0.39	0.07	0.38
(1,1001)	1:119:A:VAL:H	1:119:A:VAL:HG21	20	0.39	0.07	0.38
(1,3116)	1:87:A:LYS:HE3	1:113:A:LEU:HD21	20	0.39	0.1	0.38
(1,3116)	1:87:A:LYS:HE3	1:113:A:LEU:HD22	20	0.39	0.1	0.38
(1,3116)	1:87:A:LYS:HE3	1:113:A:LEU:HD23	20	0.39	0.1	0.38
(1,1614)	1:171:A:ILE:HG22	1:174:A:LEU:HD11	20	0.39	0.09	0.42
(1,1614)	1:171:A:ILE:HG21	1:174:A:LEU:HD13	20	0.39	0.09	0.42
(1,1614)	1:171:A:ILE:HG23	1:174:A:LEU:HD11	20	0.39	0.09	0.42
(1,1614)	1:171:A:ILE:HG23	1:174:A:LEU:HD13	20	0.39	0.09	0.42
(1,1614)	1:171:A:ILE:HG23	1:174:A:LEU:HD12	20	0.39	0.09	0.42
(1,1614)	1:171:A:ILE:HG22	1:174:A:LEU:HD12	20	0.39	0.09	0.42
(1,1614)	1:171:A:ILE:HG21	1:174:A:LEU:HD11	20	0.39	0.09	0.42

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1614)	1:171:A:ILE:HG22	1:174:A:LEU:HD13	20	0.39	0.09	0.42
(1,1614)	1:171:A:ILE:HG21	1:174:A:LEU:HD12	20	0.39	0.09	0.42
(1,2657)	1:108:A:TYR:HA	1:109:A:ILE:HD13	20	0.39	0.13	0.4
(1,2657)	1:108:A:TYR:HA	1:109:A:ILE:HD12	20	0.39	0.13	0.4
(1,2657)	1:108:A:TYR:HA	1:109:A:ILE:HD11	20	0.39	0.13	0.4
(1,774)	1:42:A:GLU:H	1:42:A:GLU:HB3	20	0.39	0.01	0.39
(1,2401)	1:34:A:TYR:HB3	1:31:A:VAL:HG11	20	0.39	0.03	0.38
(1,2401)	1:34:A:TYR:HB3	1:31:A:VAL:HG13	20	0.39	0.03	0.38
(1,2401)	1:34:A:TYR:HB3	1:31:A:VAL:HG12	20	0.39	0.03	0.38
(1,3221)	1:152:A:VAL:HG22	1:150:A:VAL:H	20	0.38	0.08	0.39
(1,3221)	1:152:A:VAL:HG23	1:150:A:VAL:H	20	0.38	0.08	0.39
(1,3221)	1:152:A:VAL:HG21	1:150:A:VAL:H	20	0.38	0.08	0.39
(1,299)	1:85:A:ARG:HD2	1:84:A:GLY:HA2	20	0.38	0.17	0.3
(1,299)	1:85:A:ARG:HD3	1:84:A:GLY:HA2	20	0.38	0.17	0.3
(1,1627)	1:43:A:ILE:HG21	1:108:A:TYR:HE2	20	0.38	0.03	0.39
(1,1627)	1:43:A:ILE:HG22	1:108:A:TYR:HE2	20	0.38	0.03	0.39
(1,1627)	1:43:A:ILE:HG23	1:108:A:TYR:HE2	20	0.38	0.03	0.39
(1,139)	1:19:A:LEU:HD13	1:19:A:LEU:HG	20	0.38	0.03	0.38
(1,139)	1:19:A:LEU:HD11	1:19:A:LEU:HG	20	0.38	0.03	0.38
(1,139)	1:19:A:LEU:HD12	1:19:A:LEU:HG	20	0.38	0.03	0.38
(1,2924)	1:166:A:ILE:HD12	1:163:A:TRP:HA	20	0.38	0.12	0.37
(1,2924)	1:166:A:ILE:HD11	1:163:A:TRP:HA	20	0.38	0.12	0.37
(1,2924)	1:166:A:ILE:HD13	1:163:A:TRP:HA	20	0.38	0.12	0.37
(1,2599)	1:69:A:LYS:HA	1:69:A:LYS:HE2	20	0.38	0.07	0.38
(1,3230)	1:86:A:LEU:HD21	1:153:A:HIS:HD2	20	0.38	0.06	0.36
(1,3230)	1:86:A:LEU:HD23	1:153:A:HIS:HD2	20	0.38	0.06	0.36
(1,3230)	1:86:A:LEU:HD22	1:153:A:HIS:HD2	20	0.38	0.06	0.36
(1,1825)	1:45:A:THR:HG23	1:46:A:LYS:HA	20	0.38	0.05	0.38
(1,1825)	1:45:A:THR:HG21	1:46:A:LYS:HA	20	0.38	0.05	0.38
(1,1825)	1:45:A:THR:HG22	1:46:A:LYS:HA	20	0.38	0.05	0.38
(1,481)	1:149:A:MET:HG3	1:138:A:PHE:HZ	20	0.37	0.04	0.37
(1,2851)	1:38:A:VAL:HG13	1:38:A:VAL:HA	20	0.37	0.03	0.38
(1,2851)	1:38:A:VAL:HG11	1:38:A:VAL:HA	20	0.37	0.03	0.38
(1,2851)	1:38:A:VAL:HG12	1:38:A:VAL:HA	20	0.37	0.03	0.38
(1,549)	1:61:A:PHE:H	1:52:A:ILE:HG22	20	0.37	0.06	0.38
(1,549)	1:61:A:PHE:H	1:52:A:ILE:HG23	20	0.37	0.06	0.38
(1,549)	1:61:A:PHE:H	1:52:A:ILE:HG21	20	0.37	0.06	0.38
(1,852)	1:159:A:GLU:H	1:154:A:ALA:HB1	20	0.37	0.1	0.38
(1,852)	1:159:A:GLU:H	1:154:A:ALA:HB3	20	0.37	0.1	0.38
(1,852)	1:159:A:GLU:H	1:154:A:ALA:HB2	20	0.37	0.1	0.38
(1,912)	1:50:A:LYS:H	1:50:A:LYS:HB3	20	0.37	0.07	0.38
(1,396)	1:21:A:LYS:HA	1:21:A:LYS:HG2	20	0.37	0.05	0.36

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,396)	1:21:A:LYS:HA	1:21:A:LYS:HG3	20	0.37	0.05	0.36
(1,3053)	1:55:A:MET:HE3	1:119:A:VAL:H	20	0.36	0.07	0.36
(1,3053)	1:55:A:MET:HE2	1:119:A:VAL:H	20	0.36	0.07	0.36
(1,3053)	1:55:A:MET:HE1	1:119:A:VAL:H	20	0.36	0.07	0.36
(1,2721)	1:61:A:PHE:HA	1:61:A:PHE:HE2	20	0.36	0.05	0.36
(1,2721)	1:61:A:PHE:HA	1:61:A:PHE:HE1	20	0.36	0.05	0.36
(1,3094)	1:66:A:LEU:HB3	1:61:A:PHE:HE1	20	0.36	0.07	0.38
(1,1533)	1:52:A:ILE:HD11	1:52:A:ILE:HA	20	0.36	0.01	0.36
(1,1533)	1:52:A:ILE:HD12	1:52:A:ILE:HA	20	0.36	0.01	0.36
(1,1533)	1:52:A:ILE:HD13	1:52:A:ILE:HA	20	0.36	0.01	0.36
(1,1886)	1:174:A:LEU:HD23	1:174:A:LEU:HD13	20	0.36	0.06	0.35
(1,1886)	1:174:A:LEU:HD23	1:174:A:LEU:HD12	20	0.36	0.06	0.35
(1,1886)	1:174:A:LEU:HD21	1:174:A:LEU:HD13	20	0.36	0.06	0.35
(1,1886)	1:174:A:LEU:HD22	1:174:A:LEU:HD12	20	0.36	0.06	0.35
(1,1886)	1:174:A:LEU:HD21	1:174:A:LEU:HD11	20	0.36	0.06	0.35
(1,1886)	1:174:A:LEU:HD21	1:174:A:LEU:HD12	20	0.36	0.06	0.35
(1,1886)	1:174:A:LEU:HD22	1:174:A:LEU:HD11	20	0.36	0.06	0.35
(1,1886)	1:174:A:LEU:HD22	1:174:A:LEU:HD13	20	0.36	0.06	0.35
(1,505)	1:37:A:LYS:HE2	1:34:A:TYR:HD1	20	0.36	0.05	0.36
(1,505)	1:37:A:LYS:HE3	1:34:A:TYR:HD2	20	0.36	0.05	0.36
(1,505)	1:37:A:LYS:HE2	1:34:A:TYR:HD2	20	0.36	0.05	0.36
(1,878)	1:43:A:ILE:H	1:43:A:ILE:HD12	20	0.35	0.03	0.34
(1,878)	1:43:A:ILE:H	1:43:A:ILE:HD13	20	0.35	0.03	0.34
(1,878)	1:43:A:ILE:H	1:43:A:ILE:HD11	20	0.35	0.03	0.34
(1,2407)	1:38:A:VAL:HG13	1:41:A:ASN:HB3	20	0.35	0.08	0.37
(1,2407)	1:38:A:VAL:HG11	1:41:A:ASN:HB3	20	0.35	0.08	0.37
(1,2407)	1:38:A:VAL:HG12	1:41:A:ASN:HB3	20	0.35	0.08	0.37
(1,3278)	1:76:A:SER:H	1:77:A:VAL:HG22	20	0.35	0.02	0.35
(1,3278)	1:76:A:SER:H	1:77:A:VAL:HG21	20	0.35	0.02	0.35
(1,3278)	1:76:A:SER:H	1:77:A:VAL:HG23	20	0.35	0.02	0.35
(1,1167)	1:78:A:PHE:H	1:77:A:VAL:HG12	20	0.35	0.03	0.35
(1,1167)	1:78:A:PHE:H	1:77:A:VAL:HG11	20	0.35	0.03	0.35
(1,1167)	1:78:A:PHE:H	1:77:A:VAL:HG13	20	0.35	0.03	0.35
(1,1630)	1:24:A:ILE:HG23	1:24:A:ILE:HB	20	0.35	0.01	0.35
(1,1630)	1:24:A:ILE:HG21	1:24:A:ILE:HB	20	0.35	0.01	0.35
(1,1630)	1:24:A:ILE:HG22	1:24:A:ILE:HB	20	0.35	0.01	0.35
(1,1903)	1:86:A:LEU:HD13	1:78:A:PHE:HA	20	0.35	0.04	0.34
(1,1903)	1:86:A:LEU:HD12	1:78:A:PHE:HA	20	0.35	0.04	0.34
(1,1903)	1:86:A:LEU:HD11	1:78:A:PHE:HA	20	0.35	0.04	0.34
(1,2274)	1:31:A:VAL:HG21	1:31:A:VAL:HB	20	0.35	0.01	0.35
(1,2274)	1:31:A:VAL:HG23	1:31:A:VAL:HB	20	0.35	0.01	0.35
(1,2274)	1:31:A:VAL:HG22	1:31:A:VAL:HB	20	0.35	0.01	0.35

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2902)	1:46:A:LYS:HB2	1:108:A:TYR:HE2	20	0.35	0.03	0.34
(1,2473)	1:80:A:LYS:HE2	1:86:A:LEU:HD22	20	0.35	0.09	0.36
(1,2473)	1:80:A:LYS:HE2	1:86:A:LEU:HD21	20	0.35	0.09	0.36
(1,2473)	1:80:A:LYS:HE2	1:86:A:LEU:HD23	20	0.35	0.09	0.36
(1,825)	1:86:A:LEU:H	1:86:A:LEU:HB3	20	0.35	0.06	0.38
(1,938)	1:102:A:GLN:H	1:101:A:LEU:HB2	20	0.35	0.02	0.35
(1,302)	1:25:A:GLY:HA2	1:28:A:ASP:HB3	20	0.35	0.06	0.33
(1,1307)	1:63:A:LYS:H	1:47:A:THR:HG23	20	0.35	0.11	0.33
(1,1307)	1:63:A:LYS:H	1:47:A:THR:HG21	20	0.35	0.11	0.33
(1,1307)	1:63:A:LYS:H	1:47:A:THR:HG22	20	0.35	0.11	0.33
(1,3172)	1:101:A:LEU:HD21	1:110:A:PHE:HE1	20	0.34	0.06	0.36
(1,3172)	1:101:A:LEU:HD22	1:110:A:PHE:HE1	20	0.34	0.06	0.36
(1,3172)	1:101:A:LEU:HD23	1:110:A:PHE:HE1	20	0.34	0.06	0.36
(1,2383)	1:35:A:GLU:HG3	1:38:A:VAL:HG12	20	0.34	0.09	0.36
(1,2383)	1:35:A:GLU:HG3	1:38:A:VAL:HG13	20	0.34	0.09	0.36
(1,2383)	1:35:A:GLU:HG3	1:38:A:VAL:HG11	20	0.34	0.09	0.36
(1,3283)	1:88:A:GLU:HG2	1:78:A:PHE:H	20	0.34	0.03	0.34
(1,217)	1:37:A:LYS:HD3	1:37:A:LYS:HA	20	0.34	0.03	0.34
(1,349)	1:8:A:VAL:HG21	1:8:A:VAL:HA	20	0.34	0.07	0.33
(1,349)	1:8:A:VAL:HA	1:8:A:VAL:HG11	20	0.34	0.07	0.33
(1,349)	1:8:A:VAL:HG23	1:8:A:VAL:HA	20	0.34	0.07	0.33
(1,349)	1:8:A:VAL:HG22	1:8:A:VAL:HA	20	0.34	0.07	0.33
(1,349)	1:8:A:VAL:HA	1:8:A:VAL:HG13	20	0.34	0.07	0.33
(1,2564)	1:26:A:ALA:HB1	1:26:A:ALA:HA	20	0.34	0.01	0.34
(1,2564)	1:26:A:ALA:HB3	1:26:A:ALA:HA	20	0.34	0.01	0.34
(1,2564)	1:26:A:ALA:HB2	1:26:A:ALA:HA	20	0.34	0.01	0.34
(1,2222)	1:154:A:ALA:HB1	1:159:A:GLU:HB2	20	0.34	0.06	0.31
(1,2222)	1:154:A:ALA:HB2	1:159:A:GLU:HB2	20	0.34	0.06	0.31
(1,2222)	1:154:A:ALA:HB3	1:159:A:GLU:HB2	20	0.34	0.06	0.31
(1,2049)	1:113:A:LEU:HD13	1:113:A:LEU:HA	20	0.34	0.07	0.35
(1,2049)	1:113:A:LEU:HD12	1:113:A:LEU:HA	20	0.34	0.07	0.35
(1,2049)	1:113:A:LEU:HD11	1:113:A:LEU:HA	20	0.34	0.07	0.35
(1,2172)	1:46:A:LYS:HD3	1:46:A:LYS:HB2	20	0.34	0.04	0.34
(1,32)	1:139:A:LEU:H	1:138:A:PHE:HD1	20	0.33	0.04	0.34
(1,652)	1:171:A:ILE:H	1:171:A:ILE:HG23	20	0.33	0.02	0.32
(1,652)	1:171:A:ILE:H	1:171:A:ILE:HG22	20	0.33	0.02	0.32
(1,652)	1:171:A:ILE:H	1:171:A:ILE:HG21	20	0.33	0.02	0.32
(1,390)	1:170:A:THR:HA	1:171:A:ILE:HD11	20	0.33	0.05	0.35
(1,390)	1:170:A:THR:HA	1:171:A:ILE:HD13	20	0.33	0.05	0.35
(1,390)	1:170:A:THR:HA	1:72:A:VAL:HG12	20	0.33	0.05	0.35
(1,390)	1:170:A:THR:HA	1:171:A:ILE:HD12	20	0.33	0.05	0.35
(1,390)	1:170:A:THR:HA	1:72:A:VAL:HG11	20	0.33	0.05	0.35

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2768)	1:159:A:GLU:HG2	1:159:A:GLU:HA	20	0.33	0.16	0.25
(1,2493)	1:128:A:ARG:HB2	1:128:A:ARG:HD3	20	0.33	0.09	0.31
(1,1855)	1:62:A:ALA:HB2	1:63:A:LYS:HB3	20	0.33	0.02	0.32
(1,1855)	1:62:A:ALA:HB1	1:63:A:LYS:HB3	20	0.33	0.02	0.32
(1,1855)	1:62:A:ALA:HB3	1:63:A:LYS:HB3	20	0.33	0.02	0.32
(1,2278)	1:123:A:LYS:HB2	1:174:A:LEU:HD23	20	0.32	0.04	0.33
(1,2278)	1:123:A:LYS:HB2	1:174:A:LEU:HD22	20	0.32	0.04	0.33
(1,2278)	1:123:A:LYS:HB2	1:174:A:LEU:HD21	20	0.32	0.04	0.33
(1,2983)	1:36:A:LYS:HD3	1:36:A:LYS:HA	20	0.32	0.05	0.32
(1,1641)	1:82:A:ALA:HB2	1:82:A:ALA:HA	20	0.32	0.01	0.32
(1,1641)	1:82:A:ALA:HB1	1:82:A:ALA:HA	20	0.32	0.01	0.32
(1,1641)	1:82:A:ALA:HB3	1:82:A:ALA:HA	20	0.32	0.01	0.32
(1,367)	1:121:A:SER:HB2	1:185:A:GLU:HA	20	0.32	0.2	0.28
(1,1525)	1:166:A:ILE:HD13	1:169:A:ASP:HB3	20	0.32	0.14	0.27
(1,1525)	1:166:A:ILE:HD12	1:169:A:ASP:HB3	20	0.32	0.14	0.27
(1,1525)	1:166:A:ILE:HD11	1:169:A:ASP:HB3	20	0.32	0.14	0.27
(1,1284)	1:44:A:TYR:H	1:44:A:TYR:HD1	20	0.32	0.08	0.33
(1,1284)	1:44:A:TYR:H	1:44:A:TYR:HD2	20	0.32	0.08	0.33
(1,3321)	1:60:A:MET:HE1	1:60:A:MET:HA	20	0.32	0.04	0.32
(1,3321)	1:60:A:MET:HE2	1:60:A:MET:HA	20	0.32	0.04	0.32
(1,3321)	1:60:A:MET:HE3	1:60:A:MET:HA	20	0.32	0.04	0.32
(1,1580)	1:164:A:ILE:HG22	1:127:A:VAL:HB	20	0.32	0.04	0.32
(1,1580)	1:164:A:ILE:HG23	1:127:A:VAL:HB	20	0.32	0.04	0.32
(1,1580)	1:164:A:ILE:HG21	1:127:A:VAL:HB	20	0.32	0.04	0.32
(1,1994)	1:174:A:LEU:HD11	1:171:A:ILE:HB	20	0.32	0.08	0.3
(1,1994)	1:174:A:LEU:HD12	1:171:A:ILE:HB	20	0.32	0.08	0.3
(1,1994)	1:174:A:LEU:HD13	1:171:A:ILE:HB	20	0.32	0.08	0.3
(1,716)	1:141:A:SER:H	1:126:A:ILE:HD12	20	0.32	0.04	0.31
(1,716)	1:141:A:SER:H	1:126:A:ILE:HD13	20	0.32	0.04	0.31
(1,716)	1:141:A:SER:H	1:126:A:ILE:HD11	20	0.32	0.04	0.31
(1,79)	1:116:A:LYS:H	1:116:A:LYS:HD2	20	0.31	0.08	0.27
(1,79)	1:116:A:LYS:H	1:116:A:LYS:HD3	20	0.31	0.08	0.27
(1,1528)	1:52:A:ILE:HD12	1:52:A:ILE:HG12	20	0.31	0.01	0.31
(1,1528)	1:52:A:ILE:HD13	1:52:A:ILE:HG12	20	0.31	0.01	0.31
(1,1528)	1:52:A:ILE:HD11	1:52:A:ILE:HG12	20	0.31	0.01	0.31
(1,1684)	1:32:A:ALA:HB3	1:32:A:ALA:HA	20	0.31	0.03	0.32
(1,1684)	1:32:A:ALA:HB1	1:32:A:ALA:HA	20	0.31	0.03	0.32
(1,1684)	1:32:A:ALA:HB2	1:32:A:ALA:HA	20	0.31	0.03	0.32
(1,1620)	1:182:A:ILE:HG23	1:181:A:GLY:HA2	20	0.31	0.07	0.3
(1,1620)	1:182:A:ILE:HG22	1:181:A:GLY:HA2	20	0.31	0.07	0.3
(1,1620)	1:182:A:ILE:HG21	1:181:A:GLY:HA2	20	0.31	0.07	0.3
(1,1610)	1:60:A:MET:HE3	1:60:A:MET:HG3	20	0.31	0.09	0.35

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1610)	1:60:A:MET:HE2	1:60:A:MET:HG3	20	0.31	0.09	0.35
(1,1610)	1:60:A:MET:HE1	1:60:A:MET:HG3	20	0.31	0.09	0.35
(1,449)	1:31:A:VAL:HG12	1:30:A:LYS:HD3	20	0.31	0.05	0.31
(1,449)	1:31:A:VAL:HG11	1:30:A:LYS:HD3	20	0.31	0.05	0.31
(1,449)	1:31:A:VAL:HG13	1:30:A:LYS:HD3	20	0.31	0.05	0.31
(1,144)	1:30:A:LYS:HG3	1:30:A:LYS:HD2	20	0.31	0.02	0.31
(1,37)	1:169:A:ASP:H	1:167:A:ILE:HD11	20	0.31	0.07	0.29
(1,37)	1:169:A:ASP:H	1:167:A:ILE:HD13	20	0.31	0.07	0.29
(1,37)	1:169:A:ASP:H	1:167:A:ILE:HD12	20	0.31	0.07	0.29
(1,676)	1:111:A:ALA:H	1:101:A:LEU:HD22	20	0.31	0.03	0.31
(1,676)	1:111:A:ALA:H	1:101:A:LEU:HD23	20	0.31	0.03	0.31
(1,676)	1:111:A:ALA:H	1:101:A:LEU:HD21	20	0.31	0.03	0.31
(1,992)	1:27:A:VAL:H	1:26:A:ALA:HB2	20	0.3	0.08	0.31
(1,992)	1:27:A:VAL:H	1:26:A:ALA:HB1	20	0.3	0.08	0.31
(1,992)	1:27:A:VAL:H	1:26:A:ALA:HB3	20	0.3	0.08	0.31
(1,1350)	1:51:A:SER:H	1:109:A:ILE:HG23	20	0.3	0.03	0.3
(1,1350)	1:51:A:SER:H	1:109:A:ILE:HG21	20	0.3	0.03	0.3
(1,1350)	1:51:A:SER:H	1:109:A:ILE:HG22	20	0.3	0.03	0.3
(1,1767)	1:86:A:LEU:HD23	1:86:A:LEU:HB2	20	0.3	0.08	0.28
(1,1767)	1:86:A:LEU:HD22	1:86:A:LEU:HB2	20	0.3	0.08	0.28
(1,1767)	1:86:A:LEU:HD21	1:86:A:LEU:HB2	20	0.3	0.08	0.28
(1,2757)	1:163:A:TRP:HA	1:163:A:TRP:HZ2	20	0.3	0.02	0.31
(1,1052)	1:164:A:ILE:H	1:164:A:ILE:HD11	20	0.3	0.02	0.3
(1,1052)	1:164:A:ILE:H	1:164:A:ILE:HD12	20	0.3	0.02	0.3
(1,1052)	1:164:A:ILE:H	1:164:A:ILE:HD13	20	0.3	0.02	0.3
(1,3276)	1:111:A:ALA:HB2	1:109:A:ILE:H	20	0.3	0.04	0.3
(1,3276)	1:111:A:ALA:HB1	1:109:A:ILE:H	20	0.3	0.04	0.3
(1,3276)	1:111:A:ALA:HB3	1:109:A:ILE:H	20	0.3	0.04	0.3
(1,246)	1:87:A:LYS:HB2	1:79:A:LEU:HD23	20	0.3	0.28	0.24
(1,246)	1:87:A:LYS:HB2	1:79:A:LEU:HD21	20	0.3	0.28	0.24
(1,246)	1:87:A:LYS:HB2	1:79:A:LEU:HD22	20	0.3	0.28	0.24
(1,1539)	1:140:A:ILE:HD11	1:149:A:MET:HB2	20	0.3	0.08	0.3
(1,1539)	1:140:A:ILE:HD12	1:149:A:MET:HB2	20	0.3	0.08	0.3
(1,1539)	1:140:A:ILE:HD13	1:149:A:MET:HB2	20	0.3	0.08	0.3
(1,3207)	1:166:A:ILE:HG23	1:167:A:ILE:H	20	0.3	0.07	0.29
(1,3207)	1:166:A:ILE:HG21	1:167:A:ILE:H	20	0.3	0.07	0.29
(1,3207)	1:166:A:ILE:HG22	1:167:A:ILE:H	20	0.3	0.07	0.29
(1,1727)	1:31:A:VAL:HG12	1:31:A:VAL:HB	20	0.29	0.01	0.3
(1,1727)	1:31:A:VAL:HG11	1:31:A:VAL:HB	20	0.29	0.01	0.3
(1,1727)	1:31:A:VAL:HG13	1:31:A:VAL:HB	20	0.29	0.01	0.3
(1,2774)	1:77:A:VAL:HA	1:89:A:VAL:HG22	20	0.29	0.07	0.31
(1,2774)	1:77:A:VAL:HA	1:89:A:VAL:HG23	20	0.29	0.07	0.31

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2774)	1:77:A:VAL:HA	1:89:A:VAL:HG21	20	0.29	0.07	0.31
(1,46)	1:175:A:ASN:H	1:174:A:LEU:HG	20	0.29	0.09	0.3
(1,33)	1:107:A:LYS:H	1:106:A:GLN:HG3	20	0.29	0.14	0.22
(1,2903)	1:169:A:ASP:H	1:165:A:GLN:HG2	20	0.29	0.02	0.28
(1,1463)	1:85:A:ARG:H	1:85:A:ARG:HG3	20	0.29	0.07	0.3
(1,1060)	1:172:A:ASN:H	1:171:A:ILE:HG23	20	0.28	0.06	0.27
(1,1060)	1:172:A:ASN:H	1:171:A:ILE:HG22	20	0.28	0.06	0.27
(1,1060)	1:172:A:ASN:H	1:171:A:ILE:HG21	20	0.28	0.06	0.27
(1,2299)	1:102:A:GLN:HB3	1:89:A:VAL:HG12	20	0.28	0.06	0.29
(1,2299)	1:102:A:GLN:HB3	1:89:A:VAL:HG13	20	0.28	0.06	0.29
(1,2299)	1:102:A:GLN:HB3	1:89:A:VAL:HG11	20	0.28	0.06	0.29
(1,31)	1:139:A:LEU:H	1:149:A:MET:HG3	20	0.28	0.02	0.28
(1,548)	1:61:A:PHE:H	1:60:A:MET:HB2	20	0.28	0.04	0.3
(1,3370)	1:174:A:LEU:HD23	1:171:A:ILE:HA	20	0.28	0.07	0.26
(1,3370)	1:174:A:LEU:HD22	1:171:A:ILE:HA	20	0.28	0.07	0.26
(1,3370)	1:174:A:LEU:HD21	1:171:A:ILE:HA	20	0.28	0.07	0.26
(1,244)	1:87:A:LYS:HG2	1:87:A:LYS:HB3	20	0.28	0.01	0.28
(1,2873)	1:170:A:THR:HB	1:167:A:ILE:HG21	20	0.28	0.03	0.28
(1,2873)	1:170:A:THR:HB	1:167:A:ILE:HG23	20	0.28	0.03	0.28
(1,2873)	1:170:A:THR:HB	1:167:A:ILE:HG22	20	0.28	0.03	0.28
(1,295)	1:50:A:LYS:HE2	1:50:A:LYS:HA	20	0.28	0.06	0.27
(1,295)	1:50:A:LYS:HE3	1:50:A:LYS:HA	20	0.28	0.06	0.27
(1,1603)	1:149:A:MET:HE1	1:149:A:MET:HA	20	0.28	0.05	0.28
(1,1603)	1:149:A:MET:HE2	1:149:A:MET:HA	20	0.28	0.05	0.28
(1,1603)	1:149:A:MET:HE3	1:149:A:MET:HA	20	0.28	0.05	0.28
(1,3514)	1:35:A:GLU:HA	1:34:A:TYR:HE2	20	0.28	0.05	0.27
(1,3514)	1:35:A:GLU:HA	1:34:A:TYR:HE1	20	0.28	0.05	0.27
(1,2988)	1:43:A:ILE:HD12	1:40:A:LEU:HA	20	0.27	0.05	0.27
(1,2988)	1:43:A:ILE:HD13	1:40:A:LEU:HA	20	0.27	0.05	0.27
(1,2988)	1:43:A:ILE:HD11	1:40:A:LEU:HA	20	0.27	0.05	0.27
(1,3436)	1:78:A:PHE:HE2	1:78:A:PHE:HD2	20	0.27	0.0	0.27
(1,3436)	1:78:A:PHE:HE1	1:78:A:PHE:HD1	20	0.27	0.0	0.27
(1,2468)	1:80:A:LYS:HE3	1:80:A:LYS:HD3	20	0.27	0.01	0.27
(1,506)	1:35:A:GLU:HA	1:34:A:TYR:HD2	20	0.27	0.04	0.26
(1,506)	1:35:A:GLU:HA	1:34:A:TYR:HD1	20	0.27	0.04	0.26
(1,1011)	1:47:A:THR:H	1:46:A:LYS:HD2	20	0.27	0.07	0.26
(1,1923)	1:67:A:LYS:HG2	1:44:A:TYR:HD2	20	0.27	0.08	0.27
(1,1923)	1:67:A:LYS:HG2	1:44:A:TYR:HD1	20	0.27	0.08	0.27
(1,149)	1:30:A:LYS:HG2	1:30:A:LYS:HB2	20	0.27	0.01	0.27
(1,658)	1:122:A:LEU:H	1:97:A:ILE:HB	20	0.27	0.05	0.26
(1,393)	1:32:A:ALA:HA	1:31:A:VAL:HG22	20	0.26	0.02	0.26
(1,393)	1:31:A:VAL:HG11	1:32:A:ALA:HA	20	0.26	0.02	0.26

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,393)	1:32:A:ALA:HA	1:31:A:VAL:HG21	20	0.26	0.02	0.26
(1,393)	1:32:A:ALA:HA	1:31:A:VAL:HG23	20	0.26	0.02	0.26
(1,393)	1:31:A:VAL:HG12	1:32:A:ALA:HA	20	0.26	0.02	0.26
(1,1476)	1:142:A:MET:H	1:142:A:MET:HG3	20	0.26	0.05	0.25
(1,2494)	1:126:A:ILE:HD11	1:128:A:ARG:HD3	20	0.26	0.04	0.26
(1,2494)	1:126:A:ILE:HD12	1:128:A:ARG:HD3	20	0.26	0.04	0.26
(1,2494)	1:126:A:ILE:HD13	1:128:A:ARG:HD3	20	0.26	0.04	0.26
(1,493)	1:87:A:LYS:HG2	1:87:A:LYS:HD3	20	0.26	0.03	0.25
(1,2661)	1:101:A:LEU:HD11	1:108:A:TYR:HA	20	0.26	0.04	0.25
(1,2661)	1:101:A:LEU:HD12	1:108:A:TYR:HA	20	0.26	0.04	0.25
(1,2661)	1:101:A:LEU:HD13	1:108:A:TYR:HA	20	0.26	0.04	0.25
(1,1457)	1:107:A:LYS:H	1:104:A:LYS:HB2	20	0.25	0.1	0.22
(1,1643)	1:52:A:ILE:HG21	1:52:A:ILE:HB	20	0.25	0.02	0.25
(1,1643)	1:52:A:ILE:HG22	1:52:A:ILE:HB	20	0.25	0.02	0.25
(1,1643)	1:52:A:ILE:HG23	1:52:A:ILE:HB	20	0.25	0.02	0.25
(1,1415)	1:83:A:ALA:H	1:81:A:ASN:HA	20	0.25	0.03	0.25
(1,782)	1:92:A:VAL:H	1:99:A:VAL:HB	20	0.25	0.04	0.26
(1,950)	1:89:A:VAL:H	1:88:A:GLU:HG3	20	0.25	0.02	0.25
(1,1968)	1:46:A:LYS:HG2	1:46:A:LYS:HE3	20	0.25	0.01	0.25
(1,807)	1:163:A:TRP:H	1:163:A:TRP:HB3	20	0.25	0.02	0.24
(1,3046)	1:54:A:ARG:HA	1:59:A:GLN:HG2	20	0.25	0.05	0.26
(1,3222)	1:77:A:VAL:HG21	1:78:A:PHE:H	20	0.25	0.08	0.24
(1,3222)	1:77:A:VAL:HG23	1:78:A:PHE:H	20	0.25	0.08	0.24
(1,3222)	1:77:A:VAL:HG22	1:78:A:PHE:H	20	0.25	0.08	0.24
(1,1608)	1:60:A:MET:HE1	1:52:A:ILE:HG22	20	0.25	0.02	0.25
(1,1608)	1:60:A:MET:HE2	1:52:A:ILE:HG23	20	0.25	0.02	0.25
(1,1608)	1:60:A:MET:HE2	1:52:A:ILE:HG22	20	0.25	0.02	0.25
(1,1608)	1:60:A:MET:HE3	1:52:A:ILE:HG21	20	0.25	0.02	0.25
(1,1608)	1:60:A:MET:HE2	1:52:A:ILE:HG21	20	0.25	0.02	0.25
(1,1608)	1:60:A:MET:HE3	1:52:A:ILE:HG23	20	0.25	0.02	0.25
(1,1608)	1:60:A:MET:HE1	1:52:A:ILE:HG23	20	0.25	0.02	0.25
(1,2631)	1:80:A:LYS:HA	1:86:A:LEU:HD12	20	0.24	0.06	0.24
(1,2631)	1:80:A:LYS:HA	1:86:A:LEU:HD11	20	0.24	0.06	0.24
(1,2631)	1:80:A:LYS:HA	1:86:A:LEU:HD13	20	0.24	0.06	0.24
(1,1241)	1:96:A:ASP:H	1:95:A:THR:HG23	20	0.24	0.07	0.26
(1,1241)	1:96:A:ASP:H	1:95:A:THR:HG21	20	0.24	0.07	0.26
(1,1241)	1:96:A:ASP:H	1:95:A:THR:HG22	20	0.24	0.07	0.26
(1,699)	1:137:A:LEU:H	1:137:A:LEU:HD13	20	0.24	0.05	0.22
(1,699)	1:137:A:LEU:H	1:137:A:LEU:HD12	20	0.24	0.05	0.22
(1,699)	1:137:A:LEU:H	1:137:A:LEU:HD11	20	0.24	0.05	0.22
(1,3272)	1:98:A:LEU:H	1:97:A:ILE:HG23	20	0.24	0.05	0.24
(1,3272)	1:98:A:LEU:H	1:97:A:ILE:HG21	20	0.24	0.05	0.24

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,3272)	1:98:A:LEU:H	1:97:A:ILE:HG22	20	0.24	0.05	0.24
(1,1921)	1:67:A:LYS:HG2	1:44:A:TYR:HE2	20	0.24	0.1	0.22
(1,1921)	1:67:A:LYS:HG2	1:44:A:TYR:HE1	20	0.24	0.1	0.22
(1,2819)	1:121:A:SER:HA	1:121:A:SER:HB2	20	0.24	0.15	0.19
(1,3506)	1:108:A:TYR:HD2	1:108:A:TYR:HE2	20	0.24	0.0	0.24
(1,2464)	1:46:A:LYS:HE3	1:43:A:ILE:HG12	20	0.23	0.02	0.24
(1,1534)	1:140:A:ILE:HD13	1:140:A:ILE:HG13	20	0.23	0.03	0.24
(1,1534)	1:140:A:ILE:HD11	1:140:A:ILE:HG13	20	0.23	0.03	0.24
(1,1534)	1:140:A:ILE:HD12	1:140:A:ILE:HG13	20	0.23	0.03	0.24
(1,376)	1:30:A:LYS:HB3	1:31:A:VAL:HA	20	0.23	0.03	0.24
(1,289)	1:85:A:ARG:HG3	1:85:A:ARG:HD3	20	0.23	0.09	0.19
(1,289)	1:85:A:ARG:HG3	1:85:A:ARG:HD2	20	0.23	0.09	0.19
(1,1811)	1:38:A:VAL:HG12	1:38:A:VAL:HG23	20	0.22	0.05	0.22
(1,1811)	1:38:A:VAL:HG11	1:38:A:VAL:HG23	20	0.22	0.05	0.22
(1,1811)	1:38:A:VAL:HG11	1:38:A:VAL:HG21	20	0.22	0.05	0.22
(1,1811)	1:38:A:VAL:HG13	1:38:A:VAL:HG23	20	0.22	0.05	0.22
(1,1811)	1:38:A:VAL:HG12	1:38:A:VAL:HG22	20	0.22	0.05	0.22
(1,1811)	1:38:A:VAL:HG13	1:38:A:VAL:HG22	20	0.22	0.05	0.22
(1,1811)	1:38:A:VAL:HG12	1:38:A:VAL:HG21	20	0.22	0.05	0.22
(1,1811)	1:38:A:VAL:HG11	1:38:A:VAL:HG22	20	0.22	0.05	0.22
(1,1811)	1:38:A:VAL:HG13	1:38:A:VAL:HG21	20	0.22	0.05	0.22
(1,1652)	1:131:A:ALA:HB2	1:131:A:ALA:HA	20	0.22	0.01	0.22
(1,1652)	1:131:A:ALA:HB3	1:131:A:ALA:HA	20	0.22	0.01	0.22
(1,1652)	1:131:A:ALA:HB1	1:131:A:ALA:HA	20	0.22	0.01	0.22
(1,357)	1:34:A:TYR:HA	1:30:A:LYS:HE3	20	0.22	0.05	0.22
(1,357)	1:34:A:TYR:HA	1:30:A:LYS:HE2	20	0.22	0.05	0.22
(1,2876)	1:173:A:THR:HG23	1:173:A:THR:HB	20	0.22	0.01	0.22
(1,2876)	1:173:A:THR:HG21	1:173:A:THR:HB	20	0.22	0.01	0.22
(1,2876)	1:173:A:THR:HG22	1:173:A:THR:HB	20	0.22	0.01	0.22
(1,418)	1:149:A:MET:HG3	1:149:A:MET:HE2	20	0.21	0.02	0.21
(1,418)	1:149:A:MET:HG3	1:149:A:MET:HE3	20	0.21	0.02	0.21
(1,418)	1:149:A:MET:HG3	1:149:A:MET:HE1	20	0.21	0.02	0.21
(1,2099)	1:66:A:LEU:HG	1:97:A:ILE:HG13	20	0.21	0.07	0.2
(1,786)	1:87:A:LYS:H	1:87:A:LYS:HB2	20	0.21	0.04	0.2
(1,2241)	1:63:A:LYS:HD3	1:63:A:LYS:HA	20	0.2	0.03	0.22
(1,3372)	1:59:A:GLN:HG3	1:59:A:GLN:HB3	20	0.2	0.01	0.21
(1,3432)	1:100:A:PHE:HZ	1:100:A:PHE:HD2	20	0.2	0.0	0.2
(1,2950)	1:60:A:MET:HG2	1:60:A:MET:HE1	20	0.2	0.04	0.18
(1,2950)	1:60:A:MET:HG2	1:60:A:MET:HE2	20	0.2	0.04	0.18
(1,2950)	1:60:A:MET:HG2	1:60:A:MET:HE3	20	0.2	0.04	0.18
(1,1527)	1:52:A:ILE:HD11	1:52:A:ILE:HG13	20	0.2	0.01	0.2
(1,1527)	1:52:A:ILE:HD12	1:52:A:ILE:HG13	20	0.2	0.01	0.2

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1527)	1:52:A:ILE:HD13	1:52:A:ILE:HG13	20	0.2	0.01	0.2
(1,835)	1:12:A:ASP:H	1:174:A:LEU:HA	20	0.2	0.05	0.2
(1,440)	1:36:A:LYS:HE2	1:36:A:LYS:HD3	20	0.2	0.04	0.18
(1,1959)	1:66:A:LEU:HD11	1:66:A:LEU:HA	20	0.19	0.05	0.18
(1,1959)	1:66:A:LEU:HD13	1:66:A:LEU:HA	20	0.19	0.05	0.18
(1,1959)	1:66:A:LEU:HD12	1:66:A:LEU:HA	20	0.19	0.05	0.18
(1,1683)	1:83:A:ALA:HB1	1:83:A:ALA:HA	20	0.19	0.03	0.2
(1,1683)	1:83:A:ALA:HB3	1:83:A:ALA:HA	20	0.19	0.03	0.2
(1,1683)	1:83:A:ALA:HB2	1:83:A:ALA:HA	20	0.19	0.03	0.2
(1,401)	1:30:A:LYS:HB2	1:30:A:LYS:HA	20	0.19	0.01	0.19
(1,1624)	1:43:A:ILE:HG21	1:43:A:ILE:HG13	20	0.18	0.01	0.18
(1,1624)	1:43:A:ILE:HG22	1:43:A:ILE:HG13	20	0.18	0.01	0.18
(1,1624)	1:43:A:ILE:HG23	1:43:A:ILE:HG13	20	0.18	0.01	0.18
(1,1460)	1:85:A:ARG:H	1:83:A:ALA:HB3	20	0.18	0.02	0.18
(1,1460)	1:85:A:ARG:H	1:83:A:ALA:HB2	20	0.18	0.02	0.18
(1,1460)	1:85:A:ARG:H	1:83:A:ALA:HB1	20	0.18	0.02	0.18
(1,820)	1:86:A:LEU:H	1:85:A:ARG:H	20	0.18	0.03	0.18
(1,1942)	1:37:A:LYS:HG3	1:37:A:LYS:HA	20	0.18	0.03	0.17
(1,1829)	1:3:A:THR:HG23	1:3:A:THR:HB	20	0.18	0.01	0.18
(1,1829)	1:3:A:THR:HG21	1:3:A:THR:HB	20	0.18	0.01	0.18
(1,1829)	1:3:A:THR:HG22	1:3:A:THR:HB	20	0.18	0.01	0.18
(1,262)	1:24:A:ILE:HG23	1:24:A:ILE:HB	20	0.18	0.01	0.18
(1,262)	1:24:A:ILE:HG21	1:24:A:ILE:HB	20	0.18	0.01	0.18
(1,262)	1:24:A:ILE:HG22	1:24:A:ILE:HB	20	0.18	0.01	0.18
(1,2596)	1:32:A:ALA:HA	1:35:A:GLU:HB3	20	0.18	0.02	0.18
(1,184)	1:52:A:ILE:HD11	1:52:A:ILE:HG13	20	0.17	0.01	0.17
(1,184)	1:52:A:ILE:HD12	1:52:A:ILE:HG13	20	0.17	0.01	0.17
(1,184)	1:52:A:ILE:HD13	1:52:A:ILE:HG13	20	0.17	0.01	0.17
(1,940)	1:178:A:GLU:H	1:178:A:GLU:HA	20	0.17	0.04	0.16
(1,3106)	1:36:A:LYS:HD2	1:36:A:LYS:HE2	20	0.17	0.02	0.17
(1,2084)	1:52:A:ILE:HG13	1:52:A:ILE:HB	20	0.17	0.01	0.17
(1,918)	1:31:A:VAL:H	1:31:A:VAL:HB	20	0.16	0.01	0.16
(1,1870)	1:87:A:LYS:HG2	1:87:A:LYS:HE2	20	0.16	0.02	0.16
(1,3259)	1:38:A:VAL:HB	1:38:A:VAL:HG23	20	0.16	0.01	0.16
(1,3259)	1:38:A:VAL:HB	1:38:A:VAL:HG21	20	0.16	0.01	0.16
(1,3259)	1:38:A:VAL:HB	1:38:A:VAL:HG22	20	0.16	0.01	0.16
(1,815)	1:125:A:LEU:H	1:125:A:LEU:HG	20	0.15	0.02	0.15
(1,693)	1:28:A:ASP:H	1:27:A:VAL:HB	20	0.15	0.02	0.15
(1,3213)	1:174:A:LEU:HD23	1:174:A:LEU:HB2	20	0.15	0.04	0.13
(1,3213)	1:174:A:LEU:HD22	1:174:A:LEU:HB2	20	0.15	0.04	0.13
(1,3213)	1:174:A:LEU:HD21	1:174:A:LEU:HB2	20	0.15	0.04	0.13
(1,809)	1:163:A:TRP:H	1:164:A:ILE:HG13	20	0.14	0.01	0.14

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,581)	1:167:A:ILE:H	1:167:A:ILE:HB	20	0.14	0.01	0.14
(1,1976)	1:101:A:LEU:HD11	1:101:A:LEU:HA	20	0.14	0.02	0.14
(1,1976)	1:101:A:LEU:HD12	1:101:A:LEU:HA	20	0.14	0.02	0.14
(1,1976)	1:101:A:LEU:HD13	1:101:A:LEU:HA	20	0.14	0.02	0.14
(1,1628)	1:24:A:ILE:HG21	1:24:A:ILE:HD11	20	0.13	0.01	0.13
(1,1628)	1:24:A:ILE:HG21	1:24:A:ILE:HD13	20	0.13	0.01	0.13
(1,1628)	1:24:A:ILE:HG22	1:24:A:ILE:HD13	20	0.13	0.01	0.13
(1,1628)	1:24:A:ILE:HG23	1:24:A:ILE:HD13	20	0.13	0.01	0.13
(1,1628)	1:24:A:ILE:HG23	1:24:A:ILE:HD11	20	0.13	0.01	0.13
(1,1628)	1:24:A:ILE:HG21	1:24:A:ILE:HD12	20	0.13	0.01	0.13
(1,1628)	1:24:A:ILE:HG23	1:24:A:ILE:HD12	20	0.13	0.01	0.13
(1,776)	1:42:A:GLU:H	1:43:A:ILE:HB	20	0.13	0.02	0.12
(1,3225)	1:79:A:LEU:HD23	1:153:A:HIS:H	19	2.28	0.13	2.24
(1,3225)	1:79:A:LEU:HD21	1:153:A:HIS:H	19	2.28	0.13	2.24
(1,3225)	1:79:A:LEU:HD22	1:153:A:HIS:H	19	2.28	0.13	2.24
(1,2462)	1:87:A:LYS:HE3	1:79:A:LEU:HD11	19	2.16	0.11	2.13
(1,2462)	1:87:A:LYS:HE3	1:79:A:LEU:HD12	19	2.16	0.11	2.13
(1,2462)	1:87:A:LYS:HE3	1:79:A:LEU:HD13	19	2.16	0.11	2.13
(1,3166)	1:152:A:VAL:HG12	1:79:A:LEU:HD21	19	2.06	0.16	2.09
(1,3166)	1:152:A:VAL:HG12	1:79:A:LEU:HD22	19	2.06	0.16	2.09
(1,3166)	1:152:A:VAL:HG13	1:79:A:LEU:HD22	19	2.06	0.16	2.09
(1,3166)	1:152:A:VAL:HG11	1:79:A:LEU:HD23	19	2.06	0.16	2.09
(1,3166)	1:152:A:VAL:HG11	1:79:A:LEU:HD22	19	2.06	0.16	2.09
(1,3166)	1:152:A:VAL:HG12	1:79:A:LEU:HD23	19	2.06	0.16	2.09
(1,3166)	1:152:A:VAL:HG11	1:79:A:LEU:HD21	19	2.06	0.16	2.09
(1,3166)	1:152:A:VAL:HG13	1:79:A:LEU:HD21	19	2.06	0.16	2.09
(1,1686)	1:111:A:ALA:HB3	1:79:A:LEU:HD11	19	1.97	0.1	1.95
(1,1686)	1:111:A:ALA:HB2	1:79:A:LEU:HD12	19	1.97	0.1	1.95
(1,1686)	1:111:A:ALA:HB3	1:79:A:LEU:HD12	19	1.97	0.1	1.95
(1,1686)	1:111:A:ALA:HB1	1:79:A:LEU:HD11	19	1.97	0.1	1.95
(1,1686)	1:111:A:ALA:HB3	1:79:A:LEU:HD13	19	1.97	0.1	1.95
(1,1686)	1:111:A:ALA:HB2	1:79:A:LEU:HD13	19	1.97	0.1	1.95
(1,1686)	1:111:A:ALA:HB1	1:79:A:LEU:HD12	19	1.97	0.1	1.95
(1,1686)	1:111:A:ALA:HB1	1:79:A:LEU:HD13	19	1.97	0.1	1.95
(1,2463)	1:87:A:LYS:HE2	1:79:A:LEU:HD11	19	1.96	0.12	1.97
(1,2463)	1:87:A:LYS:HE2	1:79:A:LEU:HD12	19	1.96	0.12	1.97
(1,2463)	1:87:A:LYS:HE2	1:79:A:LEU:HD13	19	1.96	0.12	1.97
(1,1878)	1:66:A:LEU:HD22	1:61:A:PHE:HZ	19	1.85	0.08	1.88
(1,1878)	1:66:A:LEU:HD23	1:61:A:PHE:HZ	19	1.85	0.08	1.88
(1,1878)	1:66:A:LEU:HD21	1:61:A:PHE:HZ	19	1.85	0.08	1.88
(1,1817)	1:79:A:LEU:HD23	1:77:A:VAL:HG21	19	1.77	0.15	1.74
(1,1817)	1:79:A:LEU:HD21	1:77:A:VAL:HG23	19	1.77	0.15	1.74

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1817)	1:79:A:LEU:HD21	1:77:A:VAL:HG21	19	1.77	0.15	1.74
(1,1817)	1:79:A:LEU:HD22	1:77:A:VAL:HG23	19	1.77	0.15	1.74
(1,1817)	1:79:A:LEU:HD22	1:77:A:VAL:HG21	19	1.77	0.15	1.74
(1,1817)	1:79:A:LEU:HD21	1:77:A:VAL:HG22	19	1.77	0.15	1.74
(1,1817)	1:79:A:LEU:HD22	1:77:A:VAL:HG22	19	1.77	0.15	1.74
(1,1817)	1:79:A:LEU:HD23	1:77:A:VAL:HG23	19	1.77	0.15	1.74
(1,2043)	1:79:A:LEU:HD13	1:113:A:LEU:HD12	19	1.51	0.08	1.48
(1,2043)	1:79:A:LEU:HD11	1:113:A:LEU:HD11	19	1.51	0.08	1.48
(1,2043)	1:79:A:LEU:HD11	1:113:A:LEU:HD13	19	1.51	0.08	1.48
(1,2043)	1:79:A:LEU:HD12	1:113:A:LEU:HD13	19	1.51	0.08	1.48
(1,2043)	1:79:A:LEU:HD13	1:113:A:LEU:HD11	19	1.51	0.08	1.48
(1,2043)	1:79:A:LEU:HD13	1:113:A:LEU:HD13	19	1.51	0.08	1.48
(1,2043)	1:79:A:LEU:HD12	1:113:A:LEU:HD11	19	1.51	0.08	1.48
(1,2043)	1:79:A:LEU:HD12	1:113:A:LEU:HD12	19	1.51	0.08	1.48
(1,2043)	1:79:A:LEU:HD11	1:113:A:LEU:HD12	19	1.51	0.08	1.48
(1,2460)	1:96:A:ASP:HB3	1:94:A:LEU:HB2	19	1.48	0.72	1.61
(1,2364)	1:134:A:GLU:HG2	1:157:A:LYS:HB3	19	1.45	0.52	1.63
(1,1830)	1:118:A:THR:HG23	1:79:A:LEU:HD13	19	1.42	0.11	1.45
(1,1830)	1:118:A:THR:HG21	1:79:A:LEU:HD11	19	1.42	0.11	1.45
(1,1830)	1:118:A:THR:HG22	1:79:A:LEU:HD11	19	1.42	0.11	1.45
(1,1830)	1:118:A:THR:HG22	1:79:A:LEU:HD13	19	1.42	0.11	1.45
(1,1830)	1:118:A:THR:HG22	1:79:A:LEU:HD12	19	1.42	0.11	1.45
(1,1830)	1:118:A:THR:HG21	1:79:A:LEU:HD12	19	1.42	0.11	1.45
(1,1830)	1:118:A:THR:HG21	1:79:A:LEU:HD13	19	1.42	0.11	1.45
(1,1830)	1:118:A:THR:HG23	1:79:A:LEU:HD12	19	1.42	0.11	1.45
(1,1822)	1:79:A:LEU:HD23	1:78:A:PHE:HA	19	1.29	0.07	1.29
(1,1822)	1:79:A:LEU:HD21	1:78:A:PHE:HA	19	1.29	0.07	1.29
(1,1822)	1:79:A:LEU:HD22	1:78:A:PHE:HA	19	1.29	0.07	1.29
(1,3468)	1:138:A:PHE:HD1	1:151:A:GLU:HG3	19	1.27	0.25	1.19
(1,247)	1:87:A:LYS:HB2	1:79:A:LEU:HD11	19	1.25	0.03	1.25
(1,247)	1:87:A:LYS:HB2	1:79:A:LEU:HD12	19	1.25	0.03	1.25
(1,247)	1:87:A:LYS:HB2	1:79:A:LEU:HD13	19	1.25	0.03	1.25
(1,212)	1:79:A:LEU:HD11	1:87:A:LYS:HD3	19	1.2	0.06	1.22
(1,212)	1:79:A:LEU:HD12	1:87:A:LYS:HD3	19	1.2	0.06	1.22
(1,212)	1:79:A:LEU:HD13	1:87:A:LYS:HD3	19	1.2	0.06	1.22
(1,2952)	1:144:A:MET:HE3	1:144:A:MET:HG2	19	1.15	0.05	1.16
(1,2952)	1:144:A:MET:HE2	1:144:A:MET:HG2	19	1.15	0.05	1.16
(1,2952)	1:144:A:MET:HE1	1:144:A:MET:HG2	19	1.15	0.05	1.16
(1,416)	1:18:A:SER:HA	1:24:A:ILE:HD13	19	1.11	0.77	0.93
(1,416)	1:18:A:SER:HA	1:24:A:ILE:HD12	19	1.11	0.77	0.93
(1,416)	1:16:A:SER:HA	1:8:A:VAL:HG11	19	1.11	0.77	0.93
(1,416)	1:16:A:SER:HA	1:8:A:VAL:HG13	19	1.11	0.77	0.93

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,416)	1:18:A:SER:HA	1:19:A:LEU:HD11	19	1.11	0.77	0.93
(1,416)	1:18:A:SER:HA	1:19:A:LEU:HD13	19	1.11	0.77	0.93
(1,416)	1:16:A:SER:HA	1:8:A:VAL:HG12	19	1.11	0.77	0.93
(1,416)	1:18:A:SER:HA	1:24:A:ILE:HD11	19	1.11	0.77	0.93
(1,416)	1:18:A:SER:HA	1:19:A:LEU:HD12	19	1.11	0.77	0.93
(1,2520)	1:73:A:ARG:HD2	1:163:A:TRP:HZ2	19	1.06	0.3	1.17
(1,443)	1:21:A:LYS:HE3	1:20:A:VAL:HG22	19	1.04	0.74	0.75
(1,443)	1:21:A:LYS:HE3	1:20:A:VAL:HG23	19	1.04	0.74	0.75
(1,443)	1:21:A:LYS:HE2	1:20:A:VAL:HG21	19	1.04	0.74	0.75
(1,443)	1:21:A:LYS:HE2	1:20:A:VAL:HG23	19	1.04	0.74	0.75
(1,443)	1:21:A:LYS:HE2	1:20:A:VAL:HG22	19	1.04	0.74	0.75
(1,443)	1:21:A:LYS:HE3	1:20:A:VAL:HG21	19	1.04	0.74	0.75
(1,380)	1:171:A:ILE:HA	1:125:A:LEU:HD13	19	1.03	0.07	1.03
(1,380)	1:171:A:ILE:HA	1:125:A:LEU:HD11	19	1.03	0.07	1.03
(1,380)	1:171:A:ILE:HA	1:125:A:LEU:HD12	19	1.03	0.07	1.03
(1,1926)	1:19:A:LEU:HD11	1:18:A:SER:HB2	19	0.95	0.44	0.98
(1,1926)	1:19:A:LEU:HD12	1:18:A:SER:HB2	19	0.95	0.44	0.98
(1,1926)	1:19:A:LEU:HD13	1:18:A:SER:HB2	19	0.95	0.44	0.98
(1,1782)	1:150:A:VAL:HG13	1:150:A:VAL:HA	19	0.83	0.01	0.83
(1,1782)	1:150:A:VAL:HG12	1:150:A:VAL:HA	19	0.83	0.01	0.83
(1,1782)	1:150:A:VAL:HG11	1:150:A:VAL:HA	19	0.83	0.01	0.83
(1,829)	1:182:A:ILE:H	1:181:A:GLY:HA3	19	0.83	0.17	0.85
(1,2579)	1:79:A:LEU:HD22	1:79:A:LEU:HA	19	0.79	0.01	0.79
(1,2579)	1:79:A:LEU:HD23	1:79:A:LEU:HA	19	0.79	0.01	0.79
(1,2579)	1:79:A:LEU:HD21	1:79:A:LEU:HA	19	0.79	0.01	0.79
(1,137)	1:67:A:LYS:HG2	1:68:A:ARG:HB2	19	0.78	0.19	0.78
(2,20)	1:154:A:ALA:H	1:135:A:LYS:O	19	0.75	0.4	0.93
(1,2046)	1:79:A:LEU:HD13	1:100:A:PHE:HA	19	0.75	0.09	0.77
(1,2046)	1:79:A:LEU:HD11	1:100:A:PHE:HA	19	0.75	0.09	0.77
(1,2046)	1:79:A:LEU:HD12	1:100:A:PHE:HA	19	0.75	0.09	0.77
(1,1794)	1:113:A:LEU:HD21	1:79:A:LEU:HB2	19	0.74	0.19	0.82
(1,1794)	1:113:A:LEU:HD22	1:79:A:LEU:HB2	19	0.74	0.19	0.82
(1,1794)	1:113:A:LEU:HD23	1:79:A:LEU:HB2	19	0.74	0.19	0.82
(1,3224)	1:79:A:LEU:H	1:79:A:LEU:HD23	19	0.72	0.18	0.79
(1,3224)	1:79:A:LEU:H	1:79:A:LEU:HD21	19	0.72	0.18	0.79
(1,3224)	1:79:A:LEU:H	1:79:A:LEU:HD22	19	0.72	0.18	0.79
(1,253)	1:115:A:GLN:HG2	1:113:A:LEU:HB2	19	0.69	0.54	0.45
(1,1631)	1:126:A:ILE:HG22	1:126:A:ILE:HG13	19	0.63	0.03	0.62
(1,1631)	1:126:A:ILE:HG23	1:126:A:ILE:HG13	19	0.63	0.03	0.62
(1,1631)	1:126:A:ILE:HG21	1:126:A:ILE:HG13	19	0.63	0.03	0.62
(1,175)	1:67:A:LYS:HG3	1:37:A:LYS:HG2	19	0.6	0.13	0.58
(1,175)	1:37:A:LYS:HG2	1:38:A:VAL:HG21	19	0.6	0.13	0.58

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,175)	1:37:A:LYS:HG2	1:38:A:VAL:HG23	19	0.6	0.13	0.58
(2,2)	1:72:A:VAL:H	1:93:A:LEU:O	19	0.58	0.08	0.59
(1,348)	1:162:A:SER:HB2	1:161:A:ASN:HB3	19	0.57	0.24	0.63
(1,2845)	1:72:A:VAL:HG22	1:72:A:VAL:HA	19	0.57	0.01	0.57
(1,2845)	1:72:A:VAL:HG23	1:72:A:VAL:HA	19	0.57	0.01	0.57
(1,2845)	1:72:A:VAL:HG21	1:72:A:VAL:HA	19	0.57	0.01	0.57
(1,3307)	1:53:A:MET:HE1	1:61:A:PHE:HE1	19	0.57	0.03	0.57
(1,3307)	1:53:A:MET:HE2	1:61:A:PHE:HE1	19	0.57	0.03	0.57
(1,3307)	1:53:A:MET:HE3	1:61:A:PHE:HE1	19	0.57	0.03	0.57
(1,346)	1:159:A:GLU:HB3	1:162:A:SER:HB2	19	0.55	0.11	0.57
(1,346)	1:162:A:SER:HB2	1:158:A:GLU:HG3	19	0.55	0.11	0.57
(1,346)	1:159:A:GLU:HB3	1:162:A:SER:HB3	19	0.55	0.11	0.57
(1,1819)	1:79:A:LEU:HD21	1:150:A:VAL:HG11	19	0.55	0.07	0.57
(1,1819)	1:79:A:LEU:HD22	1:150:A:VAL:HG11	19	0.55	0.07	0.57
(1,1819)	1:79:A:LEU:HD22	1:150:A:VAL:HG12	19	0.55	0.07	0.57
(1,1819)	1:79:A:LEU:HD23	1:150:A:VAL:HG11	19	0.55	0.07	0.57
(1,1819)	1:79:A:LEU:HD23	1:150:A:VAL:HG13	19	0.55	0.07	0.57
(1,1819)	1:79:A:LEU:HD21	1:150:A:VAL:HG13	19	0.55	0.07	0.57
(1,1819)	1:79:A:LEU:HD23	1:150:A:VAL:HG12	19	0.55	0.07	0.57
(1,1819)	1:79:A:LEU:HD21	1:150:A:VAL:HG12	19	0.55	0.07	0.57
(1,1864)	1:95:A:THR:HG23	1:72:A:VAL:HB	19	0.52	0.07	0.5
(1,1864)	1:95:A:THR:HG21	1:72:A:VAL:HB	19	0.52	0.07	0.5
(1,1864)	1:95:A:THR:HG22	1:72:A:VAL:HB	19	0.52	0.07	0.5
(1,1590)	1:55:A:MET:HE1	1:55:A:MET:HG3	19	0.52	0.46	0.24
(1,1590)	1:55:A:MET:HE2	1:55:A:MET:HG3	19	0.52	0.46	0.24
(1,1590)	1:55:A:MET:HE3	1:55:A:MET:HG3	19	0.52	0.46	0.24
(1,1995)	1:174:A:LEU:HD12	1:12:A:ASP:HB2	19	0.52	0.13	0.53
(1,1995)	1:174:A:LEU:HD11	1:12:A:ASP:HB2	19	0.52	0.13	0.53
(1,1995)	1:174:A:LEU:HD13	1:12:A:ASP:HB2	19	0.52	0.13	0.53
(1,230)	1:67:A:LYS:HB3	1:67:A:LYS:HE2	19	0.5	0.06	0.5
(1,2216)	1:104:A:LYS:HD3	1:104:A:LYS:HG3	19	0.5	0.12	0.54
(1,3451)	1:66:A:LEU:HB3	1:44:A:TYR:HD2	19	0.49	0.12	0.48
(1,3451)	1:66:A:LEU:HB3	1:44:A:TYR:HD1	19	0.49	0.12	0.48
(1,279)	1:157:A:LYS:HG2	1:157:A:LYS:HE2	19	0.48	0.38	0.34
(1,542)	1:61:A:PHE:H	1:61:A:PHE:HD1	19	0.46	0.02	0.46
(1,2166)	1:67:A:LYS:HD3	1:67:A:LYS:HA	19	0.45	0.03	0.45
(1,3051)	1:55:A:MET:HE2	1:59:A:GLN:HE22	19	0.45	0.1	0.48
(1,3051)	1:55:A:MET:HE1	1:59:A:GLN:HE22	19	0.45	0.1	0.48
(1,3051)	1:55:A:MET:HE3	1:59:A:GLN:HE22	19	0.45	0.1	0.48
(1,1949)	1:94:A:LEU:HD23	1:69:A:LYS:HA	19	0.44	0.11	0.41
(1,1949)	1:94:A:LEU:HD21	1:69:A:LYS:HA	19	0.44	0.11	0.41
(1,1949)	1:94:A:LEU:HD22	1:69:A:LYS:HA	19	0.44	0.11	0.41

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,3294)	1:65:A:ASP:HA	1:61:A:PHE:HE2	19	0.42	0.12	0.44
(1,2673)	1:144:A:MET:HB2	1:144:A:MET:HA	19	0.41	0.01	0.41
(1,1710)	1:89:A:VAL:HG23	1:79:A:LEU:HG	19	0.39	0.03	0.4
(1,1710)	1:89:A:VAL:HG21	1:79:A:LEU:HG	19	0.39	0.03	0.4
(1,1710)	1:89:A:VAL:HG22	1:79:A:LEU:HG	19	0.39	0.03	0.4
(1,126)	1:95:A:THR:HG22	1:70:A:LYS:HD3	19	0.39	0.09	0.39
(1,126)	1:95:A:THR:HG23	1:70:A:LYS:HD3	19	0.39	0.09	0.39
(1,126)	1:95:A:THR:HG21	1:70:A:LYS:HD2	19	0.39	0.09	0.39
(1,126)	1:95:A:THR:HG21	1:70:A:LYS:HD3	19	0.39	0.09	0.39
(1,161)	1:71:A:LEU:HD12	1:93:A:LEU:H	19	0.39	0.16	0.38
(1,161)	1:71:A:LEU:HD13	1:93:A:LEU:H	19	0.39	0.16	0.38
(1,161)	1:71:A:LEU:HD11	1:93:A:LEU:H	19	0.39	0.16	0.38
(1,3264)	1:20:A:VAL:HG22	1:27:A:VAL:HA	19	0.39	0.27	0.32
(1,3264)	1:20:A:VAL:HG23	1:27:A:VAL:HA	19	0.39	0.27	0.32
(1,3264)	1:20:A:VAL:HG21	1:27:A:VAL:HA	19	0.39	0.27	0.32
(1,1275)	1:163:A:TRP:HE1	1:154:A:ALA:HB1	19	0.38	0.09	0.39
(1,1275)	1:163:A:TRP:HE1	1:154:A:ALA:HB2	19	0.38	0.09	0.39
(1,1275)	1:163:A:TRP:HE1	1:154:A:ALA:HB3	19	0.38	0.09	0.39
(1,3277)	1:111:A:ALA:HB1	1:100:A:PHE:HD2	19	0.38	0.1	0.38
(1,3277)	1:111:A:ALA:HB3	1:100:A:PHE:HD2	19	0.38	0.1	0.38
(1,3277)	1:111:A:ALA:HB2	1:100:A:PHE:HD2	19	0.38	0.1	0.38
(1,842)	1:110:A:PHE:H	1:109:A:ILE:HD11	19	0.37	0.07	0.38
(1,842)	1:110:A:PHE:H	1:109:A:ILE:HD13	19	0.37	0.07	0.38
(1,842)	1:110:A:PHE:H	1:109:A:ILE:HD12	19	0.37	0.07	0.38
(1,291)	1:54:A:ARG:HD3	1:54:A:ARG:HB2	19	0.36	0.25	0.28
(1,291)	1:54:A:ARG:HD2	1:54:A:ARG:HB2	19	0.36	0.25	0.28
(1,2975)	1:102:A:GLN:HG2	1:109:A:ILE:HD12	19	0.36	0.07	0.37
(1,2975)	1:102:A:GLN:HG2	1:109:A:ILE:HD11	19	0.36	0.07	0.37
(1,2975)	1:102:A:GLN:HG2	1:109:A:ILE:HD13	19	0.36	0.07	0.37
(1,2452)	1:46:A:LYS:HD3	1:46:A:LYS:HE3	19	0.35	0.0	0.35
(1,365)	1:76:A:SER:HB3	1:78:A:PHE:HD1	19	0.34	0.08	0.37
(1,365)	1:76:A:SER:HB2	1:78:A:PHE:HD1	19	0.34	0.08	0.37
(1,327)	1:104:A:LYS:HB3	1:104:A:LYS:HA	19	0.34	0.02	0.34
(1,327)	1:104:A:LYS:HA	1:104:A:LYS:HD3	19	0.34	0.02	0.34
(1,611)	1:81:A:ASN:H	1:86:A:LEU:HD22	19	0.34	0.12	0.32
(1,611)	1:81:A:ASN:H	1:86:A:LEU:HD21	19	0.34	0.12	0.32
(1,611)	1:81:A:ASN:H	1:86:A:LEU:HD23	19	0.34	0.12	0.32
(1,2157)	1:135:A:LYS:HD3	1:135:A:LYS:HB3	19	0.33	0.1	0.34
(1,353)	1:67:A:LYS:HE3	1:67:A:LYS:HA	19	0.33	0.11	0.3
(1,1311)	1:63:A:LYS:H	1:63:A:LYS:HD2	19	0.32	0.11	0.31
(1,1594)	1:55:A:MET:HE3	1:120:A:ILE:HA	19	0.32	0.1	0.32
(1,1594)	1:55:A:MET:HE2	1:120:A:ILE:HA	19	0.32	0.1	0.32

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1594)	1:55:A:MET:HE1	1:120:A:ILE:HA	19	0.32	0.1	0.32
(1,3400)	1:126:A:ILE:HG22	1:142:A:MET:HG2	19	0.32	0.03	0.32
(1,3400)	1:126:A:ILE:HG23	1:142:A:MET:HG2	19	0.32	0.03	0.32
(1,3400)	1:126:A:ILE:HG21	1:142:A:MET:HG2	19	0.32	0.03	0.32
(2,13)	1:101:A:LEU:H	1:90:A:GLN:O	19	0.3	0.06	0.3
(1,1787)	1:101:A:LEU:HD22	1:66:A:LEU:HD11	19	0.3	0.08	0.32
(1,1787)	1:101:A:LEU:HD22	1:66:A:LEU:HD12	19	0.3	0.08	0.32
(1,1787)	1:101:A:LEU:HD21	1:66:A:LEU:HD12	19	0.3	0.08	0.32
(1,1787)	1:101:A:LEU:HD22	1:66:A:LEU:HD13	19	0.3	0.08	0.32
(1,1787)	1:101:A:LEU:HD23	1:66:A:LEU:HD12	19	0.3	0.08	0.32
(1,1787)	1:101:A:LEU:HD23	1:66:A:LEU:HD13	19	0.3	0.08	0.32
(1,1787)	1:101:A:LEU:HD21	1:66:A:LEU:HD13	19	0.3	0.08	0.32
(1,1865)	1:95:A:THR:HG21	1:170:A:THR:HA	19	0.29	0.08	0.31
(1,1865)	1:95:A:THR:HG22	1:170:A:THR:HA	19	0.29	0.08	0.31
(1,1865)	1:95:A:THR:HG23	1:170:A:THR:HA	19	0.29	0.08	0.31
(1,339)	1:157:A:LYS:HA	1:134:A:GLU:HB3	19	0.29	0.12	0.27
(1,339)	1:157:A:LYS:HA	1:134:A:GLU:HB2	19	0.29	0.12	0.27
(1,1752)	1:89:A:VAL:HG13	1:79:A:LEU:HD11	19	0.29	0.05	0.29
(1,1752)	1:89:A:VAL:HG11	1:79:A:LEU:HD12	19	0.29	0.05	0.29
(1,1752)	1:89:A:VAL:HG13	1:79:A:LEU:HD12	19	0.29	0.05	0.29
(1,1752)	1:89:A:VAL:HG11	1:79:A:LEU:HD11	19	0.29	0.05	0.29
(1,1752)	1:89:A:VAL:HG12	1:79:A:LEU:HD11	19	0.29	0.05	0.29
(1,1752)	1:89:A:VAL:HG11	1:79:A:LEU:HD13	19	0.29	0.05	0.29
(1,1752)	1:89:A:VAL:HG12	1:79:A:LEU:HD13	19	0.29	0.05	0.29
(1,564)	1:104:A:LYS:H	1:103:A:GLU:HG3	19	0.29	0.11	0.31
(1,3236)	1:98:A:LEU:HD22	1:139:A:LEU:HB2	19	0.29	0.07	0.26
(1,3236)	1:98:A:LEU:HD21	1:139:A:LEU:HB2	19	0.29	0.07	0.26
(1,3236)	1:98:A:LEU:HD23	1:139:A:LEU:HB2	19	0.29	0.07	0.26
(1,142)	1:56:A:LYS:HG2	1:56:A:LYS:HD2	19	0.28	0.08	0.25
(1,142)	1:56:A:LYS:HG2	1:56:A:LYS:HD3	19	0.28	0.08	0.25
(1,1251)	1:84:A:GLY:H	1:83:A:ALA:HB3	19	0.27	0.04	0.27
(1,1251)	1:84:A:GLY:H	1:83:A:ALA:HB2	19	0.27	0.04	0.27
(1,1251)	1:84:A:GLY:H	1:83:A:ALA:HB1	19	0.27	0.04	0.27
(1,78)	1:107:A:LYS:H	1:103:A:GLU:HG2	19	0.27	0.1	0.26
(1,78)	1:107:A:LYS:H	1:103:A:GLU:HG3	19	0.27	0.1	0.26
(1,1763)	1:99:A:VAL:HG13	1:101:A:LEU:HG	19	0.25	0.08	0.26
(1,1763)	1:99:A:VAL:HG11	1:101:A:LEU:HG	19	0.25	0.08	0.26
(1,1763)	1:99:A:VAL:HG12	1:101:A:LEU:HG	19	0.25	0.08	0.26
(1,1860)	1:62:A:ALA:HB2	1:110:A:PHE:HE2	19	0.25	0.05	0.26
(1,1860)	1:62:A:ALA:HB1	1:110:A:PHE:HE2	19	0.25	0.05	0.26
(1,1860)	1:62:A:ALA:HB3	1:110:A:PHE:HE2	19	0.25	0.05	0.26
(1,1604)	1:149:A:MET:HE2	1:138:A:PHE:HA	19	0.25	0.09	0.24

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1604)	1:149:A:MET:HE3	1:138:A:PHE:HA	19	0.25	0.09	0.24
(1,1604)	1:149:A:MET:HE1	1:138:A:PHE:HA	19	0.25	0.09	0.24
(1,1400)	1:69:A:LYS:H	1:68:A:ARG:HB3	19	0.25	0.06	0.26
(1,2843)	1:31:A:VAL:HA	1:34:A:TYR:HE2	19	0.24	0.07	0.24
(1,2843)	1:31:A:VAL:HA	1:34:A:TYR:HE1	19	0.24	0.07	0.24
(1,1690)	1:111:A:ALA:HB2	1:102:A:GLN:HB3	19	0.23	0.13	0.17
(1,1690)	1:111:A:ALA:HB1	1:102:A:GLN:HB3	19	0.23	0.13	0.17
(1,1690)	1:111:A:ALA:HB3	1:102:A:GLN:HB3	19	0.23	0.13	0.17
(1,2119)	1:137:A:LEU:HD11	1:163:A:TRP:HB3	19	0.2	0.07	0.2
(1,2119)	1:137:A:LEU:HD13	1:163:A:TRP:HB3	19	0.2	0.07	0.2
(1,2119)	1:137:A:LEU:HD12	1:163:A:TRP:HB3	19	0.2	0.07	0.2
(1,3173)	1:101:A:LEU:HD22	1:110:A:PHE:HD1	19	0.2	0.04	0.19
(1,3173)	1:101:A:LEU:HD23	1:110:A:PHE:HD1	19	0.2	0.04	0.19
(1,3173)	1:101:A:LEU:HD21	1:110:A:PHE:HD1	19	0.2	0.04	0.19
(1,2789)	1:158:A:GLU:HG2	1:158:A:GLU:HA	19	0.2	0.04	0.2
(1,1918)	1:67:A:LYS:HG2	1:67:A:LYS:HD2	19	0.18	0.01	0.18
(1,1780)	1:150:A:VAL:HG11	1:150:A:VAL:HG23	19	0.18	0.03	0.17
(1,1780)	1:150:A:VAL:HG13	1:150:A:VAL:HG23	19	0.18	0.03	0.17
(1,1780)	1:150:A:VAL:HG13	1:150:A:VAL:HG21	19	0.18	0.03	0.17
(1,1780)	1:150:A:VAL:HG11	1:150:A:VAL:HG22	19	0.18	0.03	0.17
(1,1780)	1:150:A:VAL:HG13	1:150:A:VAL:HG22	19	0.18	0.03	0.17
(1,1780)	1:150:A:VAL:HG11	1:150:A:VAL:HG21	19	0.18	0.03	0.17
(1,1780)	1:150:A:VAL:HG12	1:150:A:VAL:HG23	19	0.18	0.03	0.17
(1,1780)	1:150:A:VAL:HG12	1:150:A:VAL:HG22	19	0.18	0.03	0.17
(1,3190)	1:36:A:LYS:HD2	1:33:A:SER:HA	19	0.18	0.04	0.18
(1,402)	1:176:A:ARG:HB2	1:176:A:ARG:HA	19	0.17	0.06	0.14
(1,402)	1:176:A:ARG:HB3	1:176:A:ARG:HA	19	0.17	0.06	0.14
(1,2261)	1:56:A:LYS:HG2	1:56:A:LYS:HB2	19	0.16	0.02	0.17
(1,1096)	1:76:A:SER:H	1:75:A:GLY:HA3	19	0.14	0.01	0.14
(1,3447)	1:34:A:TYR:HB2	1:34:A:TYR:HD1	19	0.14	0.01	0.14
(1,3447)	1:34:A:TYR:HB2	1:34:A:TYR:HD2	19	0.14	0.01	0.14
(1,2404)	1:34:A:TYR:HB2	1:34:A:TYR:HE1	19	0.12	0.01	0.12
(1,2404)	1:34:A:TYR:HB2	1:34:A:TYR:HE2	19	0.12	0.01	0.12
(1,2763)	1:67:A:LYS:HB3	1:67:A:LYS:HA	19	0.11	0.01	0.11
(1,1927)	1:19:A:LEU:HD13	1:11:A:GLU:HA	18	1.43	0.71	1.66
(1,1927)	1:19:A:LEU:HD11	1:11:A:GLU:HA	18	1.43	0.71	1.66
(1,1927)	1:19:A:LEU:HD12	1:11:A:GLU:HA	18	1.43	0.71	1.66
(2,16)	1:137:A:LEU:H	1:135:A:LYS:O	18	0.95	0.4	0.86
(1,276)	1:22:A:ASP:HB2	1:26:A:ALA:HB2	18	0.86	0.25	0.84
(1,276)	1:22:A:ASP:HB2	1:21:A:LYS:HG3	18	0.86	0.25	0.84
(1,276)	1:22:A:ASP:HB2	1:26:A:ALA:HB1	18	0.86	0.25	0.84
(1,276)	1:22:A:ASP:HB2	1:21:A:LYS:HG2	18	0.86	0.25	0.84

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,3241)	1:113:A:LEU:HD11	1:113:A:LEU:H	18	0.77	0.15	0.8
(1,3241)	1:113:A:LEU:HD13	1:113:A:LEU:H	18	0.77	0.15	0.8
(1,3241)	1:113:A:LEU:HD12	1:113:A:LEU:H	18	0.77	0.15	0.8
(1,489)	1:70:A:LYS:HB3	1:36:A:LYS:HE2	18	0.69	0.59	0.5
(1,2313)	1:168:A:GLN:HG2	1:164:A:ILE:HG23	18	0.66	0.21	0.74
(1,2313)	1:168:A:GLN:HG2	1:164:A:ILE:HG21	18	0.66	0.21	0.74
(1,2313)	1:168:A:GLN:HG2	1:164:A:ILE:HG22	18	0.66	0.21	0.74
(1,1904)	1:86:A:LEU:HD12	1:153:A:HIS:HD2	18	0.65	0.07	0.65
(1,1904)	1:86:A:LEU:HD11	1:153:A:HIS:HD2	18	0.65	0.07	0.65
(1,1904)	1:86:A:LEU:HD13	1:153:A:HIS:HD2	18	0.65	0.07	0.65
(1,320)	1:138:A:PHE:HA	1:139:A:LEU:HD22	18	0.62	0.09	0.62
(1,320)	1:138:A:PHE:HA	1:139:A:LEU:HD23	18	0.62	0.09	0.62
(1,320)	1:138:A:PHE:HA	1:139:A:LEU:HD21	18	0.62	0.09	0.62
(1,87)	1:9:A:GLU:H	1:8:A:VAL:HG13	18	0.62	0.36	0.66
(1,87)	1:9:A:GLU:H	1:8:A:VAL:HG22	18	0.62	0.36	0.66
(1,87)	1:9:A:GLU:H	1:8:A:VAL:HG11	18	0.62	0.36	0.66
(1,87)	1:9:A:GLU:H	1:8:A:VAL:HG12	18	0.62	0.36	0.66
(1,87)	1:9:A:GLU:H	1:8:A:VAL:HG23	18	0.62	0.36	0.66
(1,87)	1:9:A:GLU:H	1:8:A:VAL:HG21	18	0.62	0.36	0.66
(1,2359)	1:134:A:GLU:HG3	1:157:A:LYS:HB3	18	0.61	0.48	0.32
(1,439)	1:35:A:GLU:HB2	1:31:A:VAL:HG11	18	0.55	0.23	0.66
(1,439)	1:10:A:GLN:HB3	1:174:A:LEU:HD12	18	0.55	0.23	0.66
(1,439)	1:35:A:GLU:HB2	1:31:A:VAL:HG12	18	0.55	0.23	0.66
(1,439)	1:35:A:GLU:HB2	1:31:A:VAL:HG13	18	0.55	0.23	0.66
(1,439)	1:10:A:GLN:HB3	1:174:A:LEU:HD13	18	0.55	0.23	0.66
(1,439)	1:10:A:GLN:HB3	1:174:A:LEU:HD11	18	0.55	0.23	0.66
(1,2030)	1:124:A:LYS:HG3	1:123:A:LYS:HB3	18	0.49	0.09	0.48
(1,44)	1:117:A:SER:H	1:116:A:LYS:HD3	18	0.47	0.14	0.51
(1,2189)	1:171:A:ILE:HG22	1:123:A:LYS:HD3	18	0.44	0.2	0.4
(1,2189)	1:171:A:ILE:HG23	1:123:A:LYS:HD3	18	0.44	0.2	0.4
(1,2189)	1:171:A:ILE:HG21	1:123:A:LYS:HD3	18	0.44	0.2	0.4
(1,293)	1:67:A:LYS:HE3	1:64:A:GLU:HA	18	0.44	0.09	0.46
(1,1410)	1:172:A:ASN:HD22	1:168:A:GLN:HG3	18	0.43	0.51	0.2
(1,3401)	1:126:A:ILE:HG22	1:143:A:GLY:H	18	0.42	0.11	0.44
(1,3401)	1:126:A:ILE:HG21	1:143:A:GLY:H	18	0.42	0.11	0.44
(1,3401)	1:126:A:ILE:HG23	1:143:A:GLY:H	18	0.42	0.11	0.44
(1,516)	1:153:A:HIS:HD2	1:133:A:GLU:HB3	18	0.41	0.09	0.39
(1,516)	1:153:A:HIS:HD2	1:133:A:GLU:HB2	18	0.41	0.09	0.39
(1,3229)	1:86:A:LEU:HD21	1:153:A:HIS:HE1	18	0.39	0.18	0.41
(1,3229)	1:86:A:LEU:HD23	1:153:A:HIS:HE1	18	0.39	0.18	0.41
(1,3229)	1:86:A:LEU:HD22	1:153:A:HIS:HE1	18	0.39	0.18	0.41
(1,2713)	1:66:A:LEU:HD23	1:66:A:LEU:HA	18	0.32	0.08	0.31

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2713)	1:66:A:LEU:HD21	1:66:A:LEU:HA	18	0.32	0.08	0.31
(1,2713)	1:66:A:LEU:HD22	1:66:A:LEU:HA	18	0.32	0.08	0.31
(1,2962)	1:66:A:LEU:HG	1:65:A:ASP:HB3	18	0.31	0.34	0.14
(1,30)	1:139:A:LEU:H	1:139:A:LEU:HD22	18	0.31	0.06	0.29
(1,30)	1:139:A:LEU:H	1:139:A:LEU:HD23	18	0.31	0.06	0.29
(1,30)	1:139:A:LEU:H	1:139:A:LEU:HD21	18	0.31	0.06	0.29
(1,1687)	1:111:A:ALA:HB3	1:89:A:VAL:HG23	18	0.3	0.09	0.3
(1,1687)	1:111:A:ALA:HB2	1:89:A:VAL:HG21	18	0.3	0.09	0.3
(1,1687)	1:111:A:ALA:HB3	1:89:A:VAL:HG22	18	0.3	0.09	0.3
(1,1687)	1:111:A:ALA:HB2	1:89:A:VAL:HG23	18	0.3	0.09	0.3
(1,1687)	1:111:A:ALA:HB1	1:89:A:VAL:HG21	18	0.3	0.09	0.3
(1,1687)	1:111:A:ALA:HB1	1:89:A:VAL:HG23	18	0.3	0.09	0.3
(1,1687)	1:111:A:ALA:HB1	1:89:A:VAL:HG22	18	0.3	0.09	0.3
(1,1687)	1:111:A:ALA:HB3	1:89:A:VAL:HG21	18	0.3	0.09	0.3
(1,1687)	1:111:A:ALA:HB2	1:89:A:VAL:HG22	18	0.3	0.09	0.3
(1,3052)	1:55:A:MET:HE2	1:61:A:PHE:HZ	18	0.3	0.1	0.3
(1,3052)	1:55:A:MET:HE1	1:61:A:PHE:HZ	18	0.3	0.1	0.3
(1,3052)	1:55:A:MET:HE3	1:61:A:PHE:HZ	18	0.3	0.1	0.3
(1,1741)	1:119:A:VAL:HG12	1:110:A:PHE:HD1	18	0.29	0.09	0.28
(1,1741)	1:119:A:VAL:HG13	1:110:A:PHE:HD1	18	0.29	0.09	0.28
(1,1741)	1:119:A:VAL:HG11	1:110:A:PHE:HD1	18	0.29	0.09	0.28
(1,3391)	1:11:A:GLU:HB3	1:12:A:ASP:HB2	18	0.29	0.22	0.26
(1,477)	1:50:A:LYS:HD2	1:50:A:LYS:HE3	18	0.28	0.05	0.27
(1,477)	1:50:A:LYS:HD2	1:50:A:LYS:HE2	18	0.28	0.05	0.27
(1,1906)	1:86:A:LEU:HD13	1:78:A:PHE:HE2	18	0.25	0.06	0.24
(1,1906)	1:86:A:LEU:HD12	1:78:A:PHE:HE2	18	0.25	0.06	0.24
(1,1906)	1:86:A:LEU:HD11	1:78:A:PHE:HE2	18	0.25	0.06	0.24
(1,2955)	1:145:A:THR:HG23	1:146:A:ASP:HB3	18	0.25	0.04	0.26
(1,2955)	1:145:A:THR:HG21	1:146:A:ASP:HB3	18	0.25	0.04	0.26
(1,2955)	1:145:A:THR:HG22	1:146:A:ASP:HB3	18	0.25	0.04	0.26
(1,2442)	1:146:A:ASP:HB3	1:147:A:PRO:HD3	18	0.24	0.11	0.19
(1,190)	1:126:A:ILE:HD11	1:128:A:ARG:HG3	18	0.22	0.04	0.22
(1,190)	1:126:A:ILE:HD12	1:128:A:ARG:HG3	18	0.22	0.04	0.22
(1,190)	1:126:A:ILE:HD13	1:128:A:ARG:HG3	18	0.22	0.04	0.22
(1,3157)	1:22:A:ASP:HB2	1:22:A:ASP:HA	18	0.22	0.16	0.16
(1,828)	1:86:A:LEU:H	1:86:A:LEU:HD11	18	0.21	0.08	0.19
(1,828)	1:86:A:LEU:H	1:86:A:LEU:HD13	18	0.21	0.08	0.19
(1,828)	1:86:A:LEU:H	1:86:A:LEU:HD12	18	0.21	0.08	0.19
(1,1132)	1:66:A:LEU:H	1:66:A:LEU:HB3	18	0.2	0.02	0.21
(1,2900)	1:142:A:MET:HB2	1:126:A:ILE:HG12	18	0.2	0.05	0.21
(2,24)	1:167:A:ILE:H	1:163:A:TRP:O	18	0.2	0.07	0.17
(1,57)	1:75:A:GLY:H	1:77:A:VAL:HG22	18	0.2	0.06	0.18

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,57)	1:75:A:GLY:H	1:77:A:VAL:HG21	18	0.2	0.06	0.18
(1,57)	1:75:A:GLY:H	1:77:A:VAL:HG23	18	0.2	0.06	0.18
(1,993)	1:27:A:VAL:H	1:27:A:VAL:HG12	18	0.18	0.04	0.18
(1,993)	1:27:A:VAL:H	1:27:A:VAL:HG13	18	0.18	0.04	0.18
(1,993)	1:27:A:VAL:H	1:27:A:VAL:HG11	18	0.18	0.04	0.18
(1,841)	1:110:A:PHE:H	1:109:A:ILE:HG23	18	0.18	0.04	0.18
(1,841)	1:110:A:PHE:H	1:109:A:ILE:HG21	18	0.18	0.04	0.18
(1,841)	1:110:A:PHE:H	1:109:A:ILE:HG22	18	0.18	0.04	0.18
(1,1071)	1:162:A:SER:H	1:165:A:GLN:HE21	18	0.16	0.02	0.16
(1,2760)	1:20:A:VAL:HA	1:20:A:VAL:HB	18	0.16	0.08	0.13
(1,2051)	1:113:A:LEU:HD12	1:113:A:LEU:HD21	18	0.15	0.02	0.15
(1,2051)	1:113:A:LEU:HD11	1:113:A:LEU:HD22	18	0.15	0.02	0.15
(1,2051)	1:113:A:LEU:HD13	1:113:A:LEU:HD23	18	0.15	0.02	0.15
(1,2051)	1:113:A:LEU:HD11	1:113:A:LEU:HD23	18	0.15	0.02	0.15
(1,2051)	1:113:A:LEU:HD13	1:113:A:LEU:HD22	18	0.15	0.02	0.15
(1,2051)	1:113:A:LEU:HD12	1:113:A:LEU:HD22	18	0.15	0.02	0.15
(1,2051)	1:113:A:LEU:HD13	1:113:A:LEU:HD21	18	0.15	0.02	0.15
(1,2051)	1:113:A:LEU:HD12	1:113:A:LEU:HD23	18	0.15	0.02	0.15
(1,1388)	1:165:A:GLN:HE22	1:166:A:ILE:HG12	18	0.15	0.03	0.16
(1,2598)	1:32:A:ALA:HA	1:35:A:GLU:HA	18	0.15	0.05	0.12
(1,3423)	1:159:A:GLU:HB2	1:163:A:TRP:HD1	18	0.15	0.03	0.13
(1,2855)	1:43:A:ILE:HA	1:108:A:TYR:HE2	18	0.13	0.02	0.13
(1,1889)	1:174:A:LEU:HD22	1:174:A:LEU:HG	18	0.13	0.01	0.13
(1,1889)	1:174:A:LEU:HD23	1:174:A:LEU:HG	18	0.13	0.01	0.13
(1,1889)	1:174:A:LEU:HD21	1:174:A:LEU:HG	18	0.13	0.01	0.13
(1,2726)	1:127:A:VAL:HA	1:139:A:LEU:HB3	18	0.12	0.01	0.12
(1,1611)	1:182:A:ILE:HG21	1:182:A:ILE:HB	18	0.12	0.02	0.12
(1,1611)	1:182:A:ILE:HG23	1:182:A:ILE:HB	18	0.12	0.02	0.12
(1,1611)	1:182:A:ILE:HG22	1:182:A:ILE:HB	18	0.12	0.02	0.12
(1,2715)	1:4:A:LYS:HA	1:8:A:VAL:HG13	17	1.17	1.04	0.67
(1,2715)	1:4:A:LYS:HA	1:8:A:VAL:HG11	17	1.17	1.04	0.67
(1,2715)	1:4:A:LYS:HA	1:8:A:VAL:HG12	17	1.17	1.04	0.67
(1,2028)	1:124:A:LYS:HG2	1:123:A:LYS:HD3	17	0.97	0.22	0.98
(1,1935)	1:56:A:LYS:HG2	1:121:A:SER:HB2	17	0.93	0.74	0.63
(1,3387)	1:94:A:LEU:HD13	1:97:A:ILE:HD12	17	0.83	0.12	0.87
(1,3387)	1:94:A:LEU:HD11	1:97:A:ILE:HD13	17	0.83	0.12	0.87
(1,3387)	1:94:A:LEU:HD12	1:97:A:ILE:HD11	17	0.83	0.12	0.87
(1,3387)	1:94:A:LEU:HD12	1:97:A:ILE:HD13	17	0.83	0.12	0.87
(1,3387)	1:94:A:LEU:HD11	1:97:A:ILE:HD11	17	0.83	0.12	0.87
(1,3387)	1:94:A:LEU:HD11	1:97:A:ILE:HD12	17	0.83	0.12	0.87
(1,3387)	1:94:A:LEU:HD13	1:97:A:ILE:HD11	17	0.83	0.12	0.87
(1,210)	1:70:A:LYS:HD2	1:8:A:VAL:HG21	17	0.74	0.33	0.66

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,210)	1:70:A:LYS:HD2	1:8:A:VAL:HG11	17	0.74	0.33	0.66
(1,210)	1:70:A:LYS:HD2	1:8:A:VAL:HG23	17	0.74	0.33	0.66
(1,210)	1:70:A:LYS:HD3	1:8:A:VAL:HG21	17	0.74	0.33	0.66
(1,210)	1:70:A:LYS:HD3	1:8:A:VAL:HG23	17	0.74	0.33	0.66
(1,210)	1:70:A:LYS:HD3	1:8:A:VAL:HG22	17	0.74	0.33	0.66
(1,210)	1:70:A:LYS:HD2	1:8:A:VAL:HG13	17	0.74	0.33	0.66
(1,210)	1:70:A:LYS:HD2	1:8:A:VAL:HG22	17	0.74	0.33	0.66
(1,3383)	1:42:A:GLU:HG3	1:38:A:VAL:HG22	17	0.73	0.69	0.35
(1,3383)	1:42:A:GLU:HG3	1:38:A:VAL:HG23	17	0.73	0.69	0.35
(1,3383)	1:42:A:GLU:HG3	1:38:A:VAL:HG21	17	0.73	0.69	0.35
(1,375)	1:49:A:SER:HB3	1:63:A:LYS:HE3	17	0.73	0.21	0.66
(1,375)	1:49:A:SER:HB2	1:63:A:LYS:HE3	17	0.73	0.21	0.66
(1,300)	1:73:A:ARG:HD2	1:163:A:TRP:HH2	17	0.72	0.05	0.73
(1,58)	1:13:A:LEU:H	1:19:A:LEU:HD12	17	0.68	0.35	0.56
(1,58)	1:13:A:LEU:H	1:19:A:LEU:HD13	17	0.68	0.35	0.56
(1,58)	1:13:A:LEU:H	1:8:A:VAL:HG12	17	0.68	0.35	0.56
(1,58)	1:13:A:LEU:H	1:19:A:LEU:HD11	17	0.68	0.35	0.56
(1,58)	1:13:A:LEU:H	1:8:A:VAL:HG13	17	0.68	0.35	0.56
(1,58)	1:13:A:LEU:H	1:20:A:VAL:HG11	17	0.68	0.35	0.56
(1,58)	1:13:A:LEU:H	1:8:A:VAL:HG11	17	0.68	0.35	0.56
(1,317)	1:14:A:ALA:HA	1:8:A:VAL:HG12	17	0.64	0.19	0.61
(1,317)	1:14:A:ALA:HA	1:8:A:VAL:HG21	17	0.64	0.19	0.61
(1,317)	1:14:A:ALA:HA	1:8:A:VAL:HG13	17	0.64	0.19	0.61
(1,317)	1:14:A:ALA:HA	1:8:A:VAL:HG22	17	0.64	0.19	0.61
(1,317)	1:14:A:ALA:HA	1:8:A:VAL:HG11	17	0.64	0.19	0.61
(1,2818)	1:76:A:SER:HB3	1:78:A:PHE:HE1	17	0.63	0.71	0.19
(1,296)	1:19:A:LEU:HB2	1:11:A:GLU:HA	17	0.59	0.29	0.59
(1,296)	1:19:A:LEU:HB2	1:15:A:GLN:HA	17	0.59	0.29	0.59
(1,297)	1:19:A:LEU:HB3	1:18:A:SER:HB2	17	0.54	0.21	0.61
(1,297)	1:19:A:LEU:HB3	1:18:A:SER:HB3	17	0.54	0.21	0.61
(1,1149)	1:175:A:ASN:H	1:175:A:ASN:HB3	17	0.53	0.03	0.53
(1,2385)	1:159:A:GLU:HG3	1:154:A:ALA:HB1	17	0.52	0.09	0.55
(1,2385)	1:159:A:GLU:HG3	1:154:A:ALA:HB2	17	0.52	0.09	0.55
(1,2385)	1:159:A:GLU:HG3	1:154:A:ALA:HB3	17	0.52	0.09	0.55
(1,3380)	1:40:A:LEU:HG	1:43:A:ILE:HD12	17	0.45	0.13	0.48
(1,3380)	1:40:A:LEU:HG	1:43:A:ILE:HD13	17	0.45	0.13	0.48
(1,3380)	1:40:A:LEU:HG	1:43:A:ILE:HD11	17	0.45	0.13	0.48
(1,1691)	1:111:A:ALA:HB3	1:102:A:GLN:HG2	17	0.45	0.07	0.46
(1,1691)	1:111:A:ALA:HB2	1:102:A:GLN:HG2	17	0.45	0.07	0.46
(1,1691)	1:111:A:ALA:HB1	1:102:A:GLN:HG2	17	0.45	0.07	0.46
(1,371)	1:19:A:LEU:HB2	1:18:A:SER:HB2	17	0.45	0.26	0.4
(1,371)	1:18:A:SER:HB3	1:19:A:LEU:HB2	17	0.45	0.26	0.4

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2994)	1:11:A:GLU:HG2	1:11:A:GLU:HA	17	0.44	0.29	0.32
(1,1747)	1:72:A:VAL:HG23	1:95:A:THR:HG23	17	0.43	0.07	0.44
(1,1747)	1:72:A:VAL:HG23	1:95:A:THR:HG21	17	0.43	0.07	0.44
(1,1747)	1:72:A:VAL:HG22	1:95:A:THR:HG23	17	0.43	0.07	0.44
(1,1747)	1:72:A:VAL:HG21	1:95:A:THR:HG23	17	0.43	0.07	0.44
(1,1747)	1:72:A:VAL:HG23	1:95:A:THR:HG22	17	0.43	0.07	0.44
(1,1747)	1:72:A:VAL:HG21	1:95:A:THR:HG21	17	0.43	0.07	0.44
(1,1747)	1:72:A:VAL:HG22	1:95:A:THR:HG22	17	0.43	0.07	0.44
(1,3231)	1:86:A:LEU:HD21	1:153:A:HIS:HA	17	0.4	0.14	0.39
(1,3231)	1:86:A:LEU:HD23	1:153:A:HIS:HA	17	0.4	0.14	0.39
(1,3231)	1:86:A:LEU:HD22	1:153:A:HIS:HA	17	0.4	0.14	0.39
(1,345)	1:159:A:GLU:HG2	1:162:A:SER:HB2	17	0.38	0.18	0.36
(1,345)	1:159:A:GLU:HG2	1:162:A:SER:HB3	17	0.38	0.18	0.36
(1,2783)	1:117:A:SER:HA	1:55:A:MET:HB3	17	0.38	0.16	0.37
(1,2353)	1:133:A:GLU:HG3	1:130:A:VAL:HG11	17	0.38	0.24	0.35
(1,2353)	1:133:A:GLU:HG3	1:130:A:VAL:HG12	17	0.38	0.24	0.35
(1,2353)	1:133:A:GLU:HG3	1:130:A:VAL:HG13	17	0.38	0.24	0.35
(1,446)	1:22:A:ASP:HA	1:21:A:LYS:HG3	17	0.38	0.14	0.38
(1,154)	1:71:A:LEU:HD11	1:74:A:ASP:HB2	17	0.38	0.17	0.37
(1,154)	1:71:A:LEU:HD12	1:74:A:ASP:HB2	17	0.38	0.17	0.37
(1,154)	1:71:A:LEU:HD13	1:74:A:ASP:HB2	17	0.38	0.17	0.37
(1,154)	1:71:A:LEU:HD21	1:74:A:ASP:HB2	17	0.38	0.17	0.37
(1,2589)	1:113:A:LEU:HA	1:118:A:THR:HG22	17	0.37	0.03	0.37
(1,2589)	1:113:A:LEU:HA	1:118:A:THR:HG23	17	0.37	0.03	0.37
(1,2589)	1:113:A:LEU:HA	1:118:A:THR:HG21	17	0.37	0.03	0.37
(1,2266)	1:149:A:MET:HB3	1:138:A:PHE:HA	17	0.36	0.12	0.39
(1,1792)	1:122:A:LEU:HD13	1:122:A:LEU:HA	17	0.36	0.25	0.41
(1,1792)	1:122:A:LEU:HD11	1:122:A:LEU:HA	17	0.36	0.25	0.41
(1,1792)	1:122:A:LEU:HD12	1:122:A:LEU:HA	17	0.36	0.25	0.41
(1,3078)	1:134:A:GLU:HG3	1:134:A:GLU:HA	17	0.35	0.24	0.26
(1,1815)	1:173:A:THR:HG22	1:176:A:ARG:HB2	17	0.33	0.13	0.34
(1,1815)	1:173:A:THR:HG21	1:176:A:ARG:HB2	17	0.33	0.13	0.34
(1,1815)	1:173:A:THR:HG23	1:176:A:ARG:HB2	17	0.33	0.13	0.34
(1,1518)	1:109:A:ILE:HD12	1:102:A:GLN:HB2	17	0.3	0.1	0.3
(1,1518)	1:109:A:ILE:HD11	1:102:A:GLN:HB2	17	0.3	0.1	0.3
(1,1518)	1:109:A:ILE:HD13	1:102:A:GLN:HB2	17	0.3	0.1	0.3
(1,1636)	1:126:A:ILE:HD12	1:140:A:ILE:HG12	17	0.29	0.13	0.25
(1,1636)	1:126:A:ILE:HD13	1:140:A:ILE:HG12	17	0.29	0.13	0.25
(1,1636)	1:126:A:ILE:HD11	1:140:A:ILE:HG12	17	0.29	0.13	0.25
(1,1216)	1:118:A:THR:H	1:117:A:SER:HB2	17	0.28	0.08	0.3
(1,1649)	1:167:A:ILE:HG22	1:127:A:VAL:HB	17	0.23	0.07	0.23
(1,1649)	1:167:A:ILE:HG21	1:127:A:VAL:HB	17	0.23	0.07	0.23

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1649)	1:167:A:ILE:HG23	1:127:A:VAL:HB	17	0.23	0.07	0.23
(1,1057)	1:172:A:ASN:H	1:172:A:ASN:HB3	17	0.23	0.03	0.22
(1,767)	1:14:A:ALA:H	1:14:A:ALA:HA	17	0.21	0.04	0.21
(1,914)	1:50:A:LYS:H	1:50:A:LYS:HG3	17	0.2	0.03	0.21
(1,777)	1:92:A:VAL:H	1:100:A:PHE:HD1	17	0.2	0.04	0.19
(1,3055)	1:144:A:MET:HG3	1:145:A:THR:HG22	17	0.2	0.04	0.18
(1,3055)	1:144:A:MET:HG3	1:145:A:THR:HG21	17	0.2	0.04	0.18
(1,3055)	1:144:A:MET:HG3	1:145:A:THR:HG23	17	0.2	0.04	0.18
(1,1390)	1:184:A:SER:H	1:59:A:GLN:HG2	17	0.19	0.04	0.18
(1,601)	1:55:A:MET:H	1:55:A:MET:HB2	17	0.17	0.05	0.15
(1,282)	1:37:A:LYS:HE3	1:67:A:LYS:HG2	17	0.16	0.04	0.16
(1,282)	1:37:A:LYS:HE2	1:67:A:LYS:HG2	17	0.16	0.04	0.16
(1,1028)	1:138:A:PHE:H	1:130:A:VAL:HB	17	0.16	0.03	0.16
(1,3186)	1:33:A:SER:HB2	1:33:A:SER:HA	17	0.15	0.0	0.15
(1,3211)	1:26:A:ALA:HB1	1:29:A:SER:HB3	16	1.25	0.23	1.32
(1,3211)	1:26:A:ALA:HB3	1:29:A:SER:HB3	16	1.25	0.23	1.32
(1,3211)	1:26:A:ALA:HB2	1:29:A:SER:HB3	16	1.25	0.23	1.32
(1,3490)	1:51:A:SER:HB2	1:110:A:PHE:HD2	16	0.99	0.56	1.31
(1,370)	1:16:A:SER:HB3	1:4:A:LYS:HG2	16	0.89	0.38	0.83
(1,370)	1:18:A:SER:HB2	1:19:A:LEU:HG	16	0.89	0.38	0.83
(1,370)	1:18:A:SER:HB3	1:19:A:LEU:HG	16	0.89	0.38	0.83
(1,1318)	1:4:A:LYS:H	1:6:A:ASN:HD22	16	0.8	0.25	0.74
(1,3047)	1:54:A:ARG:HA	1:53:A:MET:HE2	16	0.79	0.27	0.91
(1,3047)	1:54:A:ARG:HA	1:53:A:MET:HE1	16	0.79	0.27	0.91
(1,3047)	1:54:A:ARG:HA	1:53:A:MET:HE3	16	0.79	0.27	0.91
(1,2821)	1:29:A:SER:HA	1:29:A:SER:HB2	16	0.72	0.0	0.72
(1,62)	1:4:A:LYS:H	1:5:A:ASP:HB2	16	0.71	0.48	0.53
(1,62)	1:4:A:LYS:H	1:2:A:MET:HG2	16	0.71	0.48	0.53
(1,1939)	1:50:A:LYS:HG3	1:60:A:MET:HE2	16	0.65	0.07	0.66
(1,1939)	1:50:A:LYS:HG3	1:60:A:MET:HE3	16	0.65	0.07	0.66
(1,1939)	1:50:A:LYS:HG3	1:60:A:MET:HE1	16	0.65	0.07	0.66
(1,2309)	1:168:A:GLN:HB3	1:168:A:GLN:HG3	16	0.64	0.13	0.68
(1,2469)	1:22:A:ASP:HB2	1:24:A:ILE:HG12	16	0.63	0.24	0.56
(1,1692)	1:111:A:ALA:HB3	1:102:A:GLN:HG3	16	0.39	0.04	0.38
(1,1692)	1:111:A:ALA:HB2	1:102:A:GLN:HG3	16	0.39	0.04	0.38
(1,1692)	1:111:A:ALA:HB1	1:102:A:GLN:HG3	16	0.39	0.04	0.38
(1,2219)	1:166:A:ILE:HG12	1:166:A:ILE:HG22	16	0.37	0.03	0.38
(1,2219)	1:166:A:ILE:HG12	1:166:A:ILE:HG23	16	0.37	0.03	0.38
(1,2219)	1:166:A:ILE:HG12	1:166:A:ILE:HG21	16	0.37	0.03	0.38
(1,1416)	1:79:A:LEU:H	1:89:A:VAL:HG22	16	0.32	0.09	0.33
(1,1416)	1:79:A:LEU:H	1:89:A:VAL:HG23	16	0.32	0.09	0.33
(1,1416)	1:79:A:LEU:H	1:89:A:VAL:HG21	16	0.32	0.09	0.33

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,431)	1:67:A:LYS:HE3	1:44:A:TYR:HE1	16	0.31	0.12	0.3
(1,431)	1:67:A:LYS:HE3	1:44:A:TYR:HE2	16	0.31	0.12	0.3
(1,827)	1:86:A:LEU:H	1:86:A:LEU:HD23	16	0.31	0.07	0.32
(1,827)	1:86:A:LEU:H	1:86:A:LEU:HD22	16	0.31	0.07	0.32
(1,827)	1:86:A:LEU:H	1:86:A:LEU:HD21	16	0.31	0.07	0.32
(1,851)	1:159:A:GLU:H	1:158:A:GLU:HB2	16	0.3	0.24	0.15
(1,2594)	1:14:A:ALA:HA	1:19:A:LEU:HB2	16	0.3	0.26	0.15
(1,1268)	1:153:A:HIS:H	1:152:A:VAL:HG13	16	0.3	0.03	0.3
(1,1268)	1:153:A:HIS:H	1:152:A:VAL:HG11	16	0.3	0.03	0.3
(1,1268)	1:153:A:HIS:H	1:152:A:VAL:HG12	16	0.3	0.03	0.3
(1,2956)	1:41:A:ASN:HB2	1:44:A:TYR:HD1	16	0.29	0.1	0.29
(1,2956)	1:41:A:ASN:HB2	1:44:A:TYR:HD2	16	0.29	0.1	0.29
(1,457)	1:92:A:VAL:H	1:98:A:LEU:HD21	16	0.27	0.07	0.29
(1,457)	1:92:A:VAL:H	1:98:A:LEU:HD23	16	0.27	0.07	0.29
(1,457)	1:92:A:VAL:H	1:98:A:LEU:HD22	16	0.27	0.07	0.29
(1,3159)	1:149:A:MET:HB3	1:140:A:ILE:HD11	16	0.24	0.04	0.24
(1,3159)	1:149:A:MET:HB3	1:140:A:ILE:HD12	16	0.24	0.04	0.24
(1,3159)	1:149:A:MET:HB3	1:140:A:ILE:HD13	16	0.24	0.04	0.24
(1,1940)	1:50:A:LYS:HG3	1:50:A:LYS:HA	16	0.22	0.02	0.21
(1,222)	1:159:A:GLU:HB3	1:162:A:SER:HB2	16	0.2	0.08	0.17
(1,222)	1:159:A:GLU:HB3	1:162:A:SER:HB3	16	0.2	0.08	0.17
(1,2756)	1:63:A:LYS:HA	1:44:A:TYR:HE2	16	0.19	0.07	0.18
(1,2756)	1:63:A:LYS:HA	1:44:A:TYR:HE1	16	0.19	0.07	0.18
(1,22)	1:130:A:VAL:H	1:129:A:GLU:HB3	16	0.17	0.05	0.16
(1,2199)	1:68:A:ARG:HG2	1:68:A:ARG:HB3	16	0.17	0.01	0.17
(1,379)	1:72:A:VAL:HA	1:71:A:LEU:HB3	16	0.15	0.04	0.15
(1,2082)	1:182:A:ILE:HG13	1:182:A:ILE:HA	16	0.14	0.03	0.14
(1,422)	1:37:A:LYS:HD2	1:37:A:LYS:HE2	16	0.14	0.02	0.14
(1,422)	1:37:A:LYS:HD3	1:37:A:LYS:HE3	16	0.14	0.02	0.14
(1,422)	1:37:A:LYS:HD3	1:37:A:LYS:HE2	16	0.14	0.02	0.14
(1,2080)	1:182:A:ILE:HG13	1:123:A:LYS:HB3	16	0.14	0.02	0.14
(1,1438)	1:172:A:ASN:H	1:173:A:THR:HB	16	0.12	0.02	0.12
(1,2875)	1:45:A:THR:HG22	1:45:A:THR:HB	16	0.12	0.01	0.12
(1,2875)	1:45:A:THR:HG23	1:45:A:THR:HB	16	0.12	0.01	0.12
(1,2875)	1:45:A:THR:HG21	1:45:A:THR:HB	16	0.12	0.01	0.12
(1,2214)	1:10:A:GLN:HB3	1:10:A:GLN:HB2	16	0.11	0.0	0.11
(1,2788)	1:158:A:GLU:HA	1:161:A:ASN:HB3	15	1.14	0.16	1.12
(1,2192)	1:15:A:GLN:HB2	1:18:A:SER:HA	15	0.84	0.56	1.12
(1,177)	1:124:A:LYS:HG3	1:124:A:LYS:HE2	15	0.73	0.07	0.75
(1,177)	1:124:A:LYS:HG3	1:124:A:LYS:HE3	15	0.73	0.07	0.75
(1,155)	1:71:A:LEU:HD22	1:39:A:ARG:HB2	15	0.72	0.06	0.72
(1,155)	1:71:A:LEU:HD23	1:39:A:ARG:HB2	15	0.72	0.06	0.72

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,155)	1:71:A:LEU:HD21	1:39:A:ARG:HB2	15	0.72	0.06	0.72
(1,3105)	1:39:A:ARG:HD3	1:39:A:ARG:HA	15	0.63	0.55	0.21
(1,2250)	1:119:A:VAL:HG21	1:53:A:MET:HG3	15	0.58	0.46	0.17
(1,2250)	1:119:A:VAL:HG22	1:53:A:MET:HG3	15	0.58	0.46	0.17
(1,2250)	1:119:A:VAL:HG23	1:53:A:MET:HG3	15	0.58	0.46	0.17
(1,405)	1:43:A:ILE:HD12	1:39:A:ARG:HG3	15	0.57	0.1	0.6
(1,405)	1:43:A:ILE:HD13	1:39:A:ARG:HG3	15	0.57	0.1	0.6
(1,405)	1:43:A:ILE:HD11	1:39:A:ARG:HG3	15	0.57	0.1	0.6
(1,197)	1:68:A:ARG:HG2	1:67:A:LYS:HE2	15	0.51	0.5	0.27
(1,2345)	1:115:A:GLN:HB2	1:115:A:GLN:HG2	15	0.5	0.02	0.49
(1,712)	1:74:A:ASP:H	1:71:A:LEU:HD11	15	0.42	0.13	0.4
(1,712)	1:74:A:ASP:H	1:71:A:LEU:HD12	15	0.42	0.13	0.4
(1,712)	1:74:A:ASP:H	1:71:A:LEU:HD13	15	0.42	0.13	0.4
(1,2432)	1:63:A:LYS:HE3	1:49:A:SER:HA	15	0.37	0.13	0.37
(1,3371)	1:67:A:LYS:HD2	1:67:A:LYS:HB3	15	0.35	0.14	0.32
(1,20)	1:11:A:GLU:H	1:178:A:GLU:H	15	0.33	0.12	0.34
(1,20)	1:11:A:GLU:H	1:13:A:LEU:H	15	0.33	0.12	0.34
(1,61)	1:79:A:LEU:H	1:87:A:LYS:HB2	15	0.32	0.05	0.33
(1,1583)	1:164:A:ILE:HG22	1:129:A:GLU:HG3	15	0.3	0.12	0.27
(1,1583)	1:164:A:ILE:HG21	1:129:A:GLU:HG3	15	0.3	0.12	0.27
(1,1583)	1:164:A:ILE:HG23	1:129:A:GLU:HG3	15	0.3	0.12	0.27
(1,243)	1:4:A:LYS:HB2	1:4:A:LYS:HE3	15	0.28	0.04	0.28
(1,243)	1:4:A:LYS:HB2	1:4:A:LYS:HE2	15	0.28	0.04	0.28
(1,507)	1:153:A:HIS:HE1	1:132:A:HIS:HD2	15	0.27	0.16	0.19
(1,507)	1:153:A:HIS:HE1	1:78:A:PHE:HD2	15	0.27	0.16	0.19
(1,3244)	1:94:A:LEU:HD11	1:92:A:VAL:H	15	0.27	0.06	0.25
(1,3244)	1:94:A:LEU:HD12	1:92:A:VAL:H	15	0.27	0.06	0.25
(1,3244)	1:94:A:LEU:HD13	1:92:A:VAL:H	15	0.27	0.06	0.25
(1,3238)	1:91:A:ALA:HA	1:98:A:LEU:HD21	15	0.27	0.05	0.28
(1,3238)	1:91:A:ALA:HA	1:98:A:LEU:HD23	15	0.27	0.05	0.28
(1,3238)	1:91:A:ALA:HA	1:98:A:LEU:HD22	15	0.27	0.05	0.28
(1,257)	1:103:A:GLU:HG2	1:106:A:GLN:HA	15	0.26	0.04	0.27
(1,2936)	1:159:A:GLU:HG2	1:159:A:GLU:HB2	15	0.25	0.01	0.25
(1,3301)	1:154:A:ALA:HB1	1:163:A:TRP:HD1	15	0.23	0.05	0.22
(1,3301)	1:154:A:ALA:HB2	1:163:A:TRP:HD1	15	0.23	0.05	0.22
(1,3301)	1:154:A:ALA:HB3	1:163:A:TRP:HD1	15	0.23	0.05	0.22
(1,981)	1:83:A:ALA:H	1:81:A:ASN:HB3	15	0.22	0.03	0.23
(1,2224)	1:159:A:GLU:HB3	1:159:A:GLU:HG3	15	0.21	0.01	0.21
(1,2605)	1:133:A:GLU:HA	1:130:A:VAL:HG12	15	0.2	0.11	0.17
(1,2605)	1:133:A:GLU:HA	1:130:A:VAL:HG13	15	0.2	0.11	0.17
(1,2605)	1:133:A:GLU:HA	1:130:A:VAL:HG11	15	0.2	0.11	0.17
(1,1074)	1:162:A:SER:H	1:161:A:ASN:HB3	15	0.19	0.04	0.2

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1522)	1:166:A:ILE:HD11	1:73:A:ARG:HB2	15	0.19	0.04	0.17
(1,1522)	1:166:A:ILE:HD13	1:73:A:ARG:HB2	15	0.19	0.04	0.17
(1,1522)	1:166:A:ILE:HD12	1:73:A:ARG:HB2	15	0.19	0.04	0.17
(1,24)	1:7:A:GLU:H	1:9:A:GLU:HG2	15	0.17	0.04	0.17
(1,24)	1:7:A:GLU:H	1:9:A:GLU:HG3	15	0.17	0.04	0.17
(1,582)	1:167:A:ILE:H	1:127:A:VAL:HG12	15	0.16	0.04	0.16
(1,582)	1:167:A:ILE:H	1:127:A:VAL:HG13	15	0.16	0.04	0.16
(1,582)	1:167:A:ILE:H	1:127:A:VAL:HG11	15	0.16	0.04	0.16
(1,2607)	1:153:A:HIS:HA	1:136:A:GLY:HA2	15	0.16	0.03	0.16
(1,697)	1:137:A:LEU:H	1:137:A:LEU:HG	15	0.14	0.03	0.14
(1,1503)	1:23:A:VAL:H	1:27:A:VAL:HB	15	0.14	0.03	0.13
(1,2411)	1:41:A:ASN:HB3	1:44:A:TYR:HB3	15	0.12	0.02	0.11
(1,2363)	1:42:A:GLU:HB3	1:42:A:GLU:HG3	15	0.12	0.0	0.12
(1,2155)	1:107:A:LYS:HD3	1:48:A:ASP:HA	14	1.24	0.57	1.5
(1,1467)	1:10:A:GLN:H	1:10:A:GLN:HB2	14	0.75	0.2	0.81
(1,2249)	1:53:A:MET:HG2	1:119:A:VAL:HG23	14	0.55	0.18	0.5
(1,2249)	1:53:A:MET:HG2	1:119:A:VAL:HG22	14	0.55	0.18	0.5
(1,2249)	1:53:A:MET:HG2	1:119:A:VAL:HG21	14	0.55	0.18	0.5
(1,199)	1:56:A:LYS:HD3	1:56:A:LYS:HB3	14	0.54	0.22	0.54
(1,199)	1:50:A:LYS:HD2	1:50:A:LYS:HB2	14	0.54	0.22	0.54
(1,3013)	1:156:A:SER:HA	1:135:A:LYS:HD3	14	0.4	0.29	0.33
(1,2508)	1:73:A:ARG:HD2	1:166:A:ILE:HG12	14	0.39	0.31	0.24
(1,3083)	1:5:A:ASP:HA	1:5:A:ASP:HB3	14	0.37	0.01	0.38
(1,1570)	1:171:A:ILE:HD12	1:122:A:LEU:HB3	14	0.36	0.16	0.35
(1,1570)	1:171:A:ILE:HD11	1:122:A:LEU:HB3	14	0.36	0.16	0.35
(1,1570)	1:171:A:ILE:HD13	1:122:A:LEU:HB3	14	0.36	0.16	0.35
(1,2017)	1:167:A:ILE:HG23	1:93:A:LEU:HD12	14	0.34	0.07	0.34
(1,2017)	1:167:A:ILE:HG23	1:93:A:LEU:HD11	14	0.34	0.07	0.34
(1,2017)	1:167:A:ILE:HG21	1:93:A:LEU:HD13	14	0.34	0.07	0.34
(1,2017)	1:167:A:ILE:HG21	1:93:A:LEU:HD12	14	0.34	0.07	0.34
(1,2017)	1:167:A:ILE:HG23	1:93:A:LEU:HD13	14	0.34	0.07	0.34
(1,2017)	1:167:A:ILE:HG22	1:93:A:LEU:HD13	14	0.34	0.07	0.34
(1,2017)	1:167:A:ILE:HG21	1:93:A:LEU:HD11	14	0.34	0.07	0.34
(1,85)	1:142:A:MET:H	1:141:A:SER:HB2	14	0.33	0.09	0.36
(2,11)	1:97:A:ILE:H	1:94:A:LEU:O	14	0.3	0.1	0.29
(1,1199)	1:67:A:LYS:H	1:67:A:LYS:HB3	14	0.28	0.05	0.29
(1,1779)	1:79:A:LEU:H	1:89:A:VAL:HG11	14	0.24	0.02	0.24
(1,1779)	1:79:A:LEU:H	1:89:A:VAL:HG12	14	0.24	0.02	0.24
(1,1779)	1:79:A:LEU:H	1:89:A:VAL:HG13	14	0.24	0.02	0.24
(1,1582)	1:164:A:ILE:HG21	1:129:A:GLU:HG2	14	0.24	0.06	0.24
(1,1582)	1:164:A:ILE:HG22	1:129:A:GLU:HG2	14	0.24	0.06	0.24
(1,1582)	1:164:A:ILE:HG23	1:129:A:GLU:HG2	14	0.24	0.06	0.24

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,3512)	1:101:A:LEU:HD11	1:108:A:TYR:HE2	14	0.23	0.06	0.24
(1,3512)	1:101:A:LEU:HD12	1:108:A:TYR:HE2	14	0.23	0.06	0.24
(1,3512)	1:101:A:LEU:HD13	1:108:A:TYR:HE2	14	0.23	0.06	0.24
(1,495)	1:10:A:GLN:HG3	1:10:A:GLN:HB3	14	0.23	0.04	0.24
(1,495)	1:10:A:GLN:HB3	1:10:A:GLN:HG2	14	0.23	0.04	0.24
(1,2356)	1:128:A:ARG:HB3	1:130:A:VAL:H	14	0.23	0.1	0.2
(1,1039)	1:170:A:THR:H	1:171:A:ILE:HD11	14	0.22	0.07	0.22
(1,1039)	1:170:A:THR:H	1:171:A:ILE:HD13	14	0.22	0.07	0.22
(1,1039)	1:170:A:THR:H	1:171:A:ILE:HD12	14	0.22	0.07	0.22
(1,27)	1:50:A:LYS:H	1:51:A:SER:HB2	14	0.2	0.09	0.17
(1,27)	1:50:A:LYS:H	1:51:A:SER:HB3	14	0.2	0.09	0.17
(1,515)	1:37:A:LYS:HD2	1:34:A:TYR:HE1	14	0.18	0.06	0.16
(1,515)	1:37:A:LYS:HD2	1:34:A:TYR:HE2	14	0.18	0.06	0.16
(1,1366)	1:135:A:LYS:H	1:135:A:LYS:HB2	14	0.17	0.04	0.18
(1,3226)	1:89:A:VAL:HG12	1:102:A:GLN:H	14	0.17	0.06	0.15
(1,3226)	1:89:A:VAL:HG13	1:102:A:GLN:H	14	0.17	0.06	0.15
(1,3226)	1:89:A:VAL:HG11	1:102:A:GLN:H	14	0.17	0.06	0.15
(1,103)	1:140:A:ILE:HD11	1:149:A:MET:HE3	14	0.16	0.04	0.15
(1,103)	1:140:A:ILE:HD12	1:149:A:MET:HE3	14	0.16	0.04	0.15
(1,103)	1:140:A:ILE:HD12	1:149:A:MET:HE2	14	0.16	0.04	0.15
(1,103)	1:149:A:MET:HE3	1:140:A:ILE:HG23	14	0.16	0.04	0.15
(1,103)	1:140:A:ILE:HD11	1:149:A:MET:HE1	14	0.16	0.04	0.15
(1,103)	1:140:A:ILE:HD13	1:149:A:MET:HE3	14	0.16	0.04	0.15
(1,103)	1:149:A:MET:HE3	1:140:A:ILE:HG22	14	0.16	0.04	0.15
(1,103)	1:140:A:ILE:HD13	1:149:A:MET:HE1	14	0.16	0.04	0.15
(1,103)	1:140:A:ILE:HD13	1:149:A:MET:HE2	14	0.16	0.04	0.15
(1,1142)	1:165:A:GLN:H	1:164:A:ILE:HG23	14	0.14	0.03	0.14
(1,1142)	1:165:A:GLN:H	1:164:A:ILE:HG21	14	0.14	0.03	0.14
(1,1142)	1:165:A:GLN:H	1:164:A:ILE:HG22	14	0.14	0.03	0.14
(1,639)	1:52:A:ILE:H	1:110:A:PHE:HD2	14	0.14	0.03	0.14
(1,2833)	1:63:A:LYS:HD2	1:49:A:SER:HB2	13	0.82	0.14	0.89
(1,1189)	1:64:A:GLU:H	1:64:A:GLU:HB3	13	0.67	0.01	0.67
(1,125)	1:62:A:ALA:HB2	1:64:A:GLU:HG2	13	0.64	0.21	0.64
(1,125)	1:62:A:ALA:HB3	1:64:A:GLU:HG3	13	0.64	0.21	0.64
(1,125)	1:62:A:ALA:HB2	1:64:A:GLU:HG3	13	0.64	0.21	0.64
(1,125)	1:62:A:ALA:HB1	1:64:A:GLU:HG3	13	0.64	0.21	0.64
(1,125)	1:62:A:ALA:HB1	1:64:A:GLU:HG2	13	0.64	0.21	0.64
(1,492)	1:95:A:THR:HG23	1:69:A:LYS:HB2	13	0.6	0.28	0.61
(1,492)	1:95:A:THR:HG22	1:10:A:GLN:HB2	13	0.6	0.28	0.61
(1,492)	1:95:A:THR:HG23	1:69:A:LYS:HB3	13	0.6	0.28	0.61
(1,492)	1:95:A:THR:HG21	1:10:A:GLN:HB2	13	0.6	0.28	0.61
(1,492)	1:95:A:THR:HG23	1:10:A:GLN:HB2	13	0.6	0.28	0.61

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,492)	1:95:A:THR:HG21	1:69:A:LYS:HB3	13	0.6	0.28	0.61
(1,492)	1:95:A:THR:HG22	1:69:A:LYS:HB2	13	0.6	0.28	0.61
(1,3341)	1:55:A:MET:HE3	1:61:A:PHE:HB2	13	0.6	0.06	0.59
(1,3341)	1:55:A:MET:HE2	1:61:A:PHE:HB2	13	0.6	0.06	0.59
(1,3341)	1:55:A:MET:HE1	1:61:A:PHE:HB2	13	0.6	0.06	0.59
(1,1426)	1:181:A:GLY:H	1:180:A:GLU:HB3	13	0.49	0.2	0.56
(1,898)	1:176:A:ARG:H	1:176:A:ARG:HD3	13	0.47	0.44	0.2
(1,2153)	1:64:A:GLU:HB2	1:44:A:TYR:HE2	13	0.43	0.07	0.41
(1,3237)	1:98:A:LEU:HD22	1:120:A:ILE:HG12	13	0.42	0.01	0.42
(1,3237)	1:98:A:LEU:HD23	1:120:A:ILE:HG12	13	0.42	0.01	0.42
(1,3237)	1:98:A:LEU:HD21	1:120:A:ILE:HG12	13	0.42	0.01	0.42
(1,584)	1:185:A:GLU:H	1:184:A:SER:HA	13	0.4	0.25	0.33
(1,2361)	1:129:A:GLU:HG3	1:129:A:GLU:HB3	13	0.39	0.0	0.39
(1,3103)	1:73:A:ARG:HD2	1:166:A:ILE:HG21	13	0.38	0.16	0.37
(1,3103)	1:73:A:ARG:HD2	1:166:A:ILE:HG23	13	0.38	0.16	0.37
(1,3103)	1:73:A:ARG:HD2	1:166:A:ILE:HG22	13	0.38	0.16	0.37
(1,1508)	1:69:A:LYS:H	1:68:A:ARG:HG2	13	0.32	0.34	0.15
(1,2360)	1:129:A:GLU:HG2	1:129:A:GLU:HB2	13	0.31	0.01	0.31
(1,2279)	1:123:A:LYS:HB2	1:174:A:LEU:HD13	13	0.25	0.11	0.24
(1,2279)	1:123:A:LYS:HB2	1:174:A:LEU:HD11	13	0.25	0.11	0.24
(1,2279)	1:123:A:LYS:HB2	1:174:A:LEU:HD12	13	0.25	0.11	0.24
(1,3450)	1:61:A:PHE:HD2	1:55:A:MET:HG2	13	0.24	0.03	0.24
(1,310)	1:14:A:ALA:HA	1:21:A:LYS:HD3	13	0.24	0.1	0.19
(1,310)	1:14:A:ALA:HA	1:21:A:LYS:HD2	13	0.24	0.1	0.19
(1,2076)	1:71:A:LEU:HG	1:39:A:ARG:HD3	13	0.22	0.11	0.15
(1,437)	1:37:A:LYS:HB3	1:34:A:TYR:HE1	13	0.21	0.06	0.21
(1,437)	1:37:A:LYS:HB3	1:34:A:TYR:HE2	13	0.21	0.06	0.21
(2,22)	1:162:A:SER:H	1:159:A:GLU:O	13	0.2	0.05	0.2
(1,486)	1:21:A:LYS:HD2	1:30:A:LYS:HA	13	0.19	0.13	0.15
(1,486)	1:21:A:LYS:HD3	1:30:A:LYS:HA	13	0.19	0.13	0.15
(1,1897)	1:86:A:LEU:HD21	1:86:A:LEU:HD13	13	0.17	0.05	0.15
(1,1897)	1:86:A:LEU:HD23	1:86:A:LEU:HD13	13	0.17	0.05	0.15
(1,1897)	1:86:A:LEU:HD23	1:86:A:LEU:HD11	13	0.17	0.05	0.15
(1,1897)	1:86:A:LEU:HD21	1:86:A:LEU:HD11	13	0.17	0.05	0.15
(1,1897)	1:86:A:LEU:HD22	1:86:A:LEU:HD11	13	0.17	0.05	0.15
(1,1897)	1:86:A:LEU:HD21	1:86:A:LEU:HD12	13	0.17	0.05	0.15
(1,1897)	1:86:A:LEU:HD22	1:86:A:LEU:HD12	13	0.17	0.05	0.15
(1,1804)	1:127:A:VAL:HG11	1:127:A:VAL:HA	13	0.15	0.04	0.15
(1,1804)	1:127:A:VAL:HG13	1:127:A:VAL:HA	13	0.15	0.04	0.15
(1,1804)	1:127:A:VAL:HG12	1:127:A:VAL:HA	13	0.15	0.04	0.15
(1,1077)	1:123:A:LYS:H	1:123:A:LYS:HB2	13	0.14	0.02	0.14
(1,2886)	1:169:A:ASP:HA	1:172:A:ASN:HB2	13	0.13	0.02	0.12

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2583)	1:53:A:MET:HA	1:53:A:MET:HG3	13	0.11	0.0	0.11
(1,1578)	1:182:A:ILE:HD11	1:182:A:ILE:HG12	13	0.11	0.0	0.11
(1,1578)	1:182:A:ILE:HD12	1:182:A:ILE:HG12	13	0.11	0.0	0.11
(1,1578)	1:182:A:ILE:HD13	1:182:A:ILE:HG12	13	0.11	0.0	0.11
(1,1844)	1:170:A:THR:HG23	1:122:A:LEU:HD23	12	1.37	0.24	1.41
(1,1844)	1:170:A:THR:HG22	1:122:A:LEU:HD23	12	1.37	0.24	1.41
(1,1844)	1:170:A:THR:HG21	1:122:A:LEU:HD23	12	1.37	0.24	1.41
(1,1844)	1:170:A:THR:HG21	1:122:A:LEU:HD21	12	1.37	0.24	1.41
(1,1844)	1:170:A:THR:HG23	1:122:A:LEU:HD21	12	1.37	0.24	1.41
(1,1844)	1:170:A:THR:HG21	1:122:A:LEU:HD22	12	1.37	0.24	1.41
(1,2492)	1:176:A:ARG:HB3	1:176:A:ARG:HD3	12	1.25	0.54	1.27
(1,2737)	1:134:A:GLU:HA	1:157:A:LYS:HG3	12	1.21	0.77	1.05
(1,3006)	1:22:A:ASP:HA	1:15:A:GLN:HB2	12	0.96	0.82	0.41
(1,2465)	1:50:A:LYS:HG2	1:50:A:LYS:HE3	12	0.65	0.27	0.53
(1,3005)	1:177:A:ASP:HB3	1:177:A:ASP:HA	12	0.56	0.01	0.57
(1,568)	1:88:A:GLU:H	1:78:A:PHE:HD2	12	0.5	0.13	0.55
(1,568)	1:88:A:GLU:H	1:78:A:PHE:HD1	12	0.5	0.13	0.55
(1,2394)	1:159:A:GLU:HG2	1:155:A:SER:HB2	12	0.48	0.12	0.46
(1,700)	1:137:A:LEU:H	1:137:A:LEU:HD23	12	0.37	0.07	0.36
(1,700)	1:137:A:LEU:H	1:137:A:LEU:HD22	12	0.37	0.07	0.36
(1,700)	1:137:A:LEU:H	1:137:A:LEU:HD21	12	0.37	0.07	0.36
(1,1726)	1:20:A:VAL:HG22	1:21:A:LYS:HA	12	0.35	0.42	0.16
(1,1726)	1:20:A:VAL:HG21	1:21:A:LYS:HA	12	0.35	0.42	0.16
(1,1726)	1:20:A:VAL:HG23	1:21:A:LYS:HA	12	0.35	0.42	0.16
(1,499)	1:36:A:LYS:HD3	1:36:A:LYS:HA	12	0.32	0.11	0.36
(1,499)	1:21:A:LYS:HD2	1:33:A:SER:HB2	12	0.32	0.11	0.36
(1,499)	1:50:A:LYS:HD2	1:49:A:SER:HB3	12	0.32	0.11	0.36
(1,140)	1:70:A:LYS:HG3	1:70:A:LYS:HD2	12	0.27	0.09	0.27
(1,140)	1:70:A:LYS:HG3	1:70:A:LYS:HD3	12	0.27	0.09	0.27
(1,586)	1:185:A:GLU:H	1:184:A:SER:HB2	12	0.27	0.19	0.18
(1,3529)	1:78:A:PHE:HE1	1:78:A:PHE:HB2	12	0.24	0.02	0.24
(1,2135)	1:126:A:ILE:HG13	1:140:A:ILE:HD12	12	0.23	0.1	0.21
(1,2135)	1:126:A:ILE:HG13	1:140:A:ILE:HD13	12	0.23	0.1	0.21
(1,2135)	1:126:A:ILE:HG13	1:140:A:ILE:HD11	12	0.23	0.1	0.21
(1,784)	1:92:A:VAL:H	1:98:A:LEU:HD21	12	0.22	0.04	0.22
(1,784)	1:92:A:VAL:H	1:98:A:LEU:HD23	12	0.22	0.04	0.22
(1,784)	1:92:A:VAL:H	1:98:A:LEU:HD22	12	0.22	0.04	0.22
(1,931)	1:121:A:SER:H	1:120:A:ILE:HG21	12	0.21	0.07	0.22
(1,931)	1:121:A:SER:H	1:120:A:ILE:HG23	12	0.21	0.07	0.22
(1,931)	1:121:A:SER:H	1:120:A:ILE:HG22	12	0.21	0.07	0.22
(1,1989)	1:174:A:LEU:HD13	1:123:A:LYS:HG3	12	0.19	0.04	0.2
(1,1989)	1:174:A:LEU:HD11	1:123:A:LYS:HG3	12	0.19	0.04	0.2

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1989)	1:174:A:LEU:HD12	1:123:A:LYS:HG3	12	0.19	0.04	0.2
(1,3174)	1:101:A:LEU:HD23	1:108:A:TYR:HD2	12	0.18	0.04	0.16
(1,3174)	1:101:A:LEU:HD21	1:108:A:TYR:HD2	12	0.18	0.04	0.16
(1,3174)	1:101:A:LEU:HD22	1:108:A:TYR:HD2	12	0.18	0.04	0.16
(1,3113)	1:80:A:LYS:HE2	1:80:A:LYS:HB2	12	0.16	0.03	0.16
(1,72)	1:39:A:ARG:H	1:39:A:ARG:HB3	12	0.15	0.02	0.15
(1,77)	1:46:A:LYS:H	1:46:A:LYS:HD2	12	0.13	0.02	0.12
(1,77)	1:46:A:LYS:H	1:46:A:LYS:HG3	12	0.13	0.02	0.12
(1,2230)	1:11:A:GLU:HB2	1:11:A:GLU:HA	12	0.13	0.01	0.13
(1,1100)	1:41:A:ASN:H	1:37:A:LYS:HA	12	0.12	0.02	0.12
(1,3368)	1:174:A:LEU:HD21	1:122:A:LEU:HD22	11	2.84	0.16	2.85
(1,3368)	1:174:A:LEU:HD23	1:122:A:LEU:HD22	11	2.84	0.16	2.85
(1,3368)	1:174:A:LEU:HD22	1:122:A:LEU:HD22	11	2.84	0.16	2.85
(1,3368)	1:174:A:LEU:HD22	1:122:A:LEU:HD23	11	2.84	0.16	2.85
(1,3368)	1:174:A:LEU:HD22	1:122:A:LEU:HD21	11	2.84	0.16	2.85
(1,2327)	1:4:A:LYS:HB2	1:8:A:VAL:HG13	11	1.64	1.5	0.46
(1,2327)	1:4:A:LYS:HB2	1:8:A:VAL:HG12	11	1.64	1.5	0.46
(1,2327)	1:4:A:LYS:HB2	1:8:A:VAL:HG11	11	1.64	1.5	0.46
(1,2837)	1:141:A:SER:HB2	1:144:A:MET:HE2	11	1.28	0.65	1.56
(1,2837)	1:141:A:SER:HB2	1:144:A:MET:HE1	11	1.28	0.65	1.56
(1,2837)	1:141:A:SER:HB2	1:144:A:MET:HE3	11	1.28	0.65	1.56
(1,99)	1:171:A:ILE:HD12	1:122:A:LEU:HB2	11	1.06	0.05	1.09
(1,99)	1:171:A:ILE:HD11	1:122:A:LEU:HB2	11	1.06	0.05	1.09
(1,99)	1:171:A:ILE:HD13	1:122:A:LEU:HB2	11	1.06	0.05	1.09
(1,3137)	1:107:A:LYS:HD3	1:46:A:LYS:HA	11	0.93	0.08	0.93
(1,2156)	1:107:A:LYS:HD3	1:48:A:ASP:HB2	11	0.92	0.08	0.93
(1,2908)	1:123:A:LYS:HB2	1:123:A:LYS:HE2	11	0.88	0.36	1.01
(1,2836)	1:141:A:SER:HB2	1:147:A:PRO:HB2	11	0.86	0.19	0.8
(1,3290)	1:39:A:ARG:HD3	1:38:A:VAL:HG12	11	0.71	0.18	0.84
(1,3290)	1:39:A:ARG:HD3	1:38:A:VAL:HG11	11	0.71	0.18	0.84
(1,3290)	1:39:A:ARG:HD3	1:38:A:VAL:HG13	11	0.71	0.18	0.84
(1,472)	1:135:A:LYS:HE3	1:135:A:LYS:HB3	11	0.67	0.13	0.65
(1,472)	1:135:A:LYS:HE2	1:135:A:LYS:HB3	11	0.67	0.13	0.65
(1,319)	1:22:A:ASP:HA	1:23:A:VAL:HG11	11	0.66	0.78	0.23
(1,319)	1:22:A:ASP:HA	1:23:A:VAL:HG12	11	0.66	0.78	0.23
(1,319)	1:22:A:ASP:HA	1:23:A:VAL:HG13	11	0.66	0.78	0.23
(1,319)	1:28:A:ASP:HA	1:31:A:VAL:HG21	11	0.66	0.78	0.23
(1,374)	1:33:A:SER:HB2	1:30:A:LYS:HE3	11	0.65	0.72	0.23
(1,374)	1:33:A:SER:HB2	1:30:A:LYS:HE2	11	0.65	0.72	0.23
(1,1497)	1:54:A:ARG:H	1:54:A:ARG:HB2	11	0.65	0.08	0.6
(1,2951)	1:144:A:MET:HE3	1:144:A:MET:HA	11	0.49	0.17	0.5
(1,2951)	1:144:A:MET:HE1	1:144:A:MET:HA	11	0.49	0.17	0.5

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2951)	1:144:A:MET:HE2	1:144:A:MET:HA	11	0.49	0.17	0.5
(1,2159)	1:107:A:LYS:HD3	1:107:A:LYS:HB2	11	0.49	0.03	0.5
(1,2141)	1:56:A:LYS:HD3	1:144:A:MET:HE2	11	0.46	0.29	0.38
(1,2141)	1:56:A:LYS:HD3	1:144:A:MET:HE1	11	0.46	0.29	0.38
(1,2141)	1:56:A:LYS:HD3	1:144:A:MET:HE3	11	0.46	0.29	0.38
(1,475)	1:109:A:ILE:HD11	1:51:A:SER:HB3	11	0.45	0.11	0.45
(1,475)	1:109:A:ILE:HD13	1:51:A:SER:HB3	11	0.45	0.11	0.45
(1,475)	1:109:A:ILE:HD12	1:51:A:SER:HB3	11	0.45	0.11	0.45
(1,2391)	1:151:A:GLU:HG3	1:80:A:LYS:HB3	11	0.43	0.39	0.26
(1,2708)	1:15:A:GLN:HB3	1:15:A:GLN:HA	11	0.42	0.17	0.5
(1,2188)	1:98:A:LEU:HD23	1:93:A:LEU:HD22	11	0.34	0.19	0.29
(1,2188)	1:98:A:LEU:HD21	1:93:A:LEU:HD22	11	0.34	0.19	0.29
(1,2188)	1:98:A:LEU:HD21	1:93:A:LEU:HD21	11	0.34	0.19	0.29
(1,2188)	1:98:A:LEU:HD21	1:93:A:LEU:HD23	11	0.34	0.19	0.29
(1,2188)	1:98:A:LEU:HD23	1:93:A:LEU:HD21	11	0.34	0.19	0.29
(1,2188)	1:98:A:LEU:HD22	1:93:A:LEU:HD23	11	0.34	0.19	0.29
(1,2188)	1:98:A:LEU:HD22	1:93:A:LEU:HD22	11	0.34	0.19	0.29
(1,2677)	1:144:A:MET:HG2	1:144:A:MET:HA	11	0.34	0.11	0.33
(1,294)	1:22:A:ASP:HB2	1:19:A:LEU:HA	11	0.32	0.17	0.27
(1,294)	1:22:A:ASP:HB2	1:17:A:LEU:HA	11	0.32	0.17	0.27
(1,294)	1:22:A:ASP:HB2	1:21:A:LYS:HA	11	0.32	0.17	0.27
(1,2253)	1:176:A:ARG:HB3	1:173:A:THR:HG23	11	0.3	0.07	0.34
(1,2253)	1:176:A:ARG:HB3	1:173:A:THR:HG21	11	0.3	0.07	0.34
(1,2253)	1:176:A:ARG:HB3	1:173:A:THR:HG22	11	0.3	0.07	0.34
(1,120)	1:122:A:LEU:HD22	1:122:A:LEU:HB3	11	0.28	0.05	0.28
(1,120)	1:122:A:LEU:HD23	1:122:A:LEU:HB3	11	0.28	0.05	0.28
(1,120)	1:122:A:LEU:HD21	1:122:A:LEU:HB3	11	0.28	0.05	0.28
(1,1289)	1:93:A:LEU:H	1:98:A:LEU:HD21	11	0.28	0.08	0.27
(1,1289)	1:93:A:LEU:H	1:98:A:LEU:HD22	11	0.28	0.08	0.27
(1,1289)	1:93:A:LEU:H	1:98:A:LEU:HD23	11	0.28	0.08	0.27
(1,2918)	1:141:A:SER:HB2	1:140:A:ILE:HG23	11	0.28	0.07	0.28
(1,2918)	1:141:A:SER:HB2	1:140:A:ILE:HG21	11	0.28	0.07	0.28
(1,2918)	1:141:A:SER:HB2	1:140:A:ILE:HG22	11	0.28	0.07	0.28
(1,2317)	1:67:A:LYS:HB3	1:44:A:TYR:HE2	11	0.27	0.16	0.24
(1,2317)	1:67:A:LYS:HB3	1:44:A:TYR:HE1	11	0.27	0.16	0.24
(1,2904)	1:140:A:ILE:HD11	1:128:A:ARG:HB3	11	0.21	0.09	0.19
(1,2904)	1:140:A:ILE:HD13	1:128:A:ARG:HB3	11	0.21	0.09	0.19
(1,2904)	1:140:A:ILE:HD12	1:128:A:ARG:HB3	11	0.21	0.09	0.19
(1,2271)	1:144:A:MET:HG2	1:144:A:MET:HB2	11	0.21	0.04	0.23
(1,214)	1:15:A:GLN:HB2	1:15:A:GLN:HG3	11	0.2	0.05	0.22
(1,214)	1:15:A:GLN:HB2	1:15:A:GLN:HG2	11	0.2	0.05	0.22
(1,1863)	1:95:A:THR:HG23	1:70:A:LYS:HG2	11	0.19	0.06	0.18

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1863)	1:95:A:THR:HG22	1:70:A:LYS:HG2	11	0.19	0.06	0.18
(1,1863)	1:95:A:THR:HG21	1:70:A:LYS:HG2	11	0.19	0.06	0.18
(1,223)	1:159:A:GLU:HB2	1:162:A:SER:HB2	11	0.18	0.07	0.17
(1,223)	1:159:A:GLU:HB2	1:162:A:SER:HB3	11	0.18	0.07	0.17
(1,385)	1:56:A:LYS:HB2	1:183:A:PRO:HA	11	0.18	0.04	0.18
(1,3022)	1:140:A:ILE:HD11	1:138:A:PHE:HA	11	0.17	0.03	0.17
(1,3022)	1:140:A:ILE:HD12	1:138:A:PHE:HA	11	0.17	0.03	0.17
(1,3022)	1:140:A:ILE:HD13	1:138:A:PHE:HA	11	0.17	0.03	0.17
(1,945)	1:89:A:VAL:H	1:78:A:PHE:HD1	11	0.17	0.06	0.14
(1,2897)	1:176:A:ARG:HB2	1:176:A:ARG:HA	11	0.16	0.0	0.16
(1,191)	1:176:A:ARG:HG2	1:176:A:ARG:HB2	11	0.16	0.02	0.16
(1,3332)	1:76:A:SER:HB3	1:88:A:GLU:HG2	11	0.13	0.03	0.12
(1,520)	1:20:A:VAL:HG23	1:20:A:VAL:HB	11	0.13	0.02	0.13
(1,520)	1:8:A:VAL:HG23	1:8:A:VAL:HB	11	0.13	0.02	0.13
(1,520)	1:8:A:VAL:HG21	1:8:A:VAL:HB	11	0.13	0.02	0.13
(1,520)	1:8:A:VAL:HG22	1:8:A:VAL:HB	11	0.13	0.02	0.13
(1,2551)	1:147:A:PRO:HD2	1:142:A:MET:HG2	11	0.13	0.02	0.13
(1,811)	1:125:A:LEU:H	1:123:A:LYS:HA	11	0.13	0.02	0.12
(1,2034)	1:123:A:LYS:HG2	1:123:A:LYS:HB3	11	0.11	0.01	0.11
(1,256)	1:64:A:GLU:HG2	1:67:A:LYS:HD3	10	0.97	0.34	1.07
(1,256)	1:64:A:GLU:HG3	1:67:A:LYS:HD3	10	0.97	0.34	1.07
(1,485)	1:64:A:GLU:HG2	1:67:A:LYS:HD3	10	0.45	0.13	0.48
(1,485)	1:64:A:GLU:HG3	1:67:A:LYS:HD3	10	0.45	0.13	0.48
(1,3250)	1:2:A:MET:HG2	1:2:A:MET:HB3	10	0.42	0.01	0.42
(1,229)	1:30:A:LYS:HB2	1:27:A:VAL:HG22	10	0.41	0.25	0.36
(1,229)	1:30:A:LYS:HB2	1:27:A:VAL:HG23	10	0.41	0.25	0.36
(1,229)	1:30:A:LYS:HB3	1:27:A:VAL:HG22	10	0.41	0.25	0.36
(1,229)	1:30:A:LYS:HB3	1:27:A:VAL:HG21	10	0.41	0.25	0.36
(1,229)	1:30:A:LYS:HB3	1:27:A:VAL:HG23	10	0.41	0.25	0.36
(1,3248)	1:2:A:MET:HG3	1:2:A:MET:HB2	10	0.37	0.02	0.38
(1,3215)	1:15:A:GLN:HB2	1:2:A:MET:HG3	10	0.36	0.16	0.38
(1,487)	1:40:A:LEU:HG	1:39:A:ARG:HG2	10	0.32	0.17	0.33
(1,487)	1:40:A:LEU:HG	1:39:A:ARG:HG3	10	0.32	0.17	0.33
(1,3092)	1:157:A:LYS:HA	1:157:A:LYS:HE2	10	0.31	0.1	0.31
(1,1301)	1:79:A:LEU:H	1:78:A:PHE:HD2	10	0.31	0.16	0.2
(1,1301)	1:79:A:LEU:H	1:78:A:PHE:HD1	10	0.31	0.16	0.2
(1,2812)	1:56:A:LYS:HA	1:56:A:LYS:HE2	10	0.29	0.29	0.19
(1,3346)	1:69:A:LYS:HD2	1:97:A:ILE:HD12	10	0.26	0.06	0.26
(1,3346)	1:69:A:LYS:HD2	1:97:A:ILE:HD11	10	0.26	0.06	0.26
(1,3346)	1:69:A:LYS:HD2	1:97:A:ILE:HD13	10	0.26	0.06	0.26
(1,761)	1:174:A:LEU:H	1:174:A:LEU:HD11	10	0.22	0.07	0.2
(1,761)	1:174:A:LEU:H	1:174:A:LEU:HD12	10	0.22	0.07	0.2

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,761)	1:174:A:LEU:H	1:174:A:LEU:HD13	10	0.22	0.07	0.2
(1,1359)	1:69:A:LYS:H	1:40:A:LEU:HD11	10	0.19	0.07	0.16
(1,1359)	1:69:A:LYS:H	1:40:A:LEU:HD13	10	0.19	0.07	0.16
(1,1359)	1:69:A:LYS:H	1:40:A:LEU:HD12	10	0.19	0.07	0.16
(1,1465)	1:5:A:ASP:H	1:5:A:ASP:HA	10	0.19	0.03	0.19
(1,1548)	1:120:A:ILE:HD11	1:139:A:LEU:HB2	10	0.19	0.05	0.18
(1,1548)	1:120:A:ILE:HD12	1:139:A:LEU:HB2	10	0.19	0.05	0.18
(1,1548)	1:120:A:ILE:HD13	1:139:A:LEU:HB2	10	0.19	0.05	0.18
(1,3010)	1:144:A:MET:HB3	1:144:A:MET:HG3	10	0.18	0.03	0.19
(1,2868)	1:167:A:ILE:HA	1:170:A:THR:HG21	10	0.18	0.06	0.16
(1,2868)	1:167:A:ILE:HA	1:170:A:THR:HG22	10	0.18	0.06	0.16
(1,2868)	1:167:A:ILE:HA	1:170:A:THR:HG23	10	0.18	0.06	0.16
(1,3516)	1:63:A:LYS:HE3	1:44:A:TYR:HE1	10	0.18	0.04	0.16
(1,3516)	1:63:A:LYS:HE3	1:44:A:TYR:HE2	10	0.18	0.04	0.16
(1,3183)	1:144:A:MET:HA	1:145:A:THR:HG22	10	0.17	0.07	0.15
(1,3183)	1:144:A:MET:HA	1:145:A:THR:HG23	10	0.17	0.07	0.15
(1,3183)	1:144:A:MET:HA	1:145:A:THR:HG21	10	0.17	0.07	0.15
(1,3488)	1:149:A:MET:HE2	1:138:A:PHE:HE2	10	0.16	0.05	0.15
(1,3488)	1:149:A:MET:HE3	1:138:A:PHE:HE2	10	0.16	0.05	0.15
(1,3488)	1:149:A:MET:HE1	1:138:A:PHE:HE2	10	0.16	0.05	0.15
(1,3488)	1:149:A:MET:HE2	1:138:A:PHE:HE1	10	0.16	0.05	0.15
(1,1079)	1:123:A:LYS:H	1:123:A:LYS:HG3	10	0.15	0.02	0.16
(1,3026)	1:55:A:MET:HG2	1:55:A:MET:HE3	10	0.11	0.01	0.11
(1,3026)	1:55:A:MET:HG2	1:55:A:MET:HE1	10	0.11	0.01	0.11
(1,3026)	1:55:A:MET:HG2	1:55:A:MET:HE2	10	0.11	0.01	0.11
(1,2969)	1:176:A:ARG:HA	1:176:A:ARG:HG2	9	0.87	0.09	0.86
(1,3090)	1:58:A:GLY:HA3	1:54:A:ARG:HG3	9	0.87	0.11	0.83
(1,3419)	1:135:A:LYS:HD3	1:135:A:LYS:HA	9	0.85	0.42	1.13
(1,2116)	1:176:A:ARG:HG3	1:11:A:GLU:HB3	9	0.76	0.14	0.74
(1,1498)	1:54:A:ARG:H	1:54:A:ARG:HG2	9	0.73	0.15	0.79
(1,39)	1:170:A:THR:H	1:174:A:LEU:HD12	9	0.73	0.52	0.83
(1,39)	1:170:A:THR:H	1:93:A:LEU:HD23	9	0.73	0.52	0.83
(1,39)	1:170:A:THR:H	1:174:A:LEU:HD11	9	0.73	0.52	0.83
(1,39)	1:170:A:THR:H	1:93:A:LEU:HD21	9	0.73	0.52	0.83
(1,39)	1:170:A:THR:H	1:93:A:LEU:HD22	9	0.73	0.52	0.83
(1,1485)	1:9:A:GLU:H	1:9:A:GLU:HB3	9	0.66	0.2	0.73
(1,2841)	1:16:A:SER:HB2	1:3:A:THR:HB	9	0.6	0.59	0.16
(1,2369)	1:134:A:GLU:HG3	1:135:A:LYS:HG2	9	0.57	0.39	0.44
(1,896)	1:176:A:ARG:H	1:176:A:ARG:HG2	9	0.56	0.05	0.57
(1,337)	1:184:A:SER:HA	1:185:A:GLU:HB3	9	0.49	0.2	0.46
(1,337)	1:184:A:SER:HA	1:55:A:MET:HB3	9	0.49	0.2	0.46
(1,2304)	1:123:A:LYS:HB3	1:123:A:LYS:HE2	9	0.39	0.26	0.28

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,943)	1:178:A:GLU:H	1:178:A:GLU:HG2	9	0.36	0.16	0.34
(1,1748)	1:72:A:VAL:HG21	1:95:A:THR:HA	9	0.31	0.22	0.24
(1,1748)	1:72:A:VAL:HG23	1:95:A:THR:HA	9	0.31	0.22	0.24
(1,1748)	1:72:A:VAL:HG22	1:95:A:THR:HA	9	0.31	0.22	0.24
(1,1116)	1:65:A:ASP:H	1:65:A:ASP:HB3	9	0.31	0.2	0.17
(1,338)	1:157:A:LYS:HA	1:157:A:LYS:HB3	9	0.3	0.01	0.3
(1,3242)	1:113:A:LEU:HD11	1:81:A:ASN:H	9	0.29	0.15	0.25
(1,3242)	1:113:A:LEU:HD12	1:81:A:ASN:H	9	0.29	0.15	0.25
(1,3242)	1:113:A:LEU:HD13	1:81:A:ASN:H	9	0.29	0.15	0.25
(1,3175)	1:33:A:SER:HB3	1:33:A:SER:HA	9	0.28	0.25	0.11
(1,2709)	1:4:A:LYS:HB3	1:4:A:LYS:HA	9	0.27	0.15	0.18
(1,351)	1:56:A:LYS:HG2	1:56:A:LYS:HA	9	0.25	0.09	0.25
(1,278)	1:30:A:LYS:HG2	1:30:A:LYS:HE2	9	0.25	0.02	0.25
(1,1593)	1:55:A:MET:HE3	1:121:A:SER:HB3	9	0.24	0.08	0.21
(1,1593)	1:55:A:MET:HE1	1:121:A:SER:HB3	9	0.24	0.08	0.21
(1,1593)	1:55:A:MET:HE2	1:121:A:SER:HB3	9	0.24	0.08	0.21
(1,897)	1:176:A:ARG:H	1:176:A:ARG:HG3	9	0.23	0.04	0.24
(1,3422)	1:176:A:ARG:HG3	1:176:A:ARG:HB2	9	0.23	0.01	0.23
(1,2896)	1:176:A:ARG:HB3	1:176:A:ARG:HA	9	0.22	0.02	0.23
(1,92)	1:17:A:LEU:H	1:18:A:SER:HB2	9	0.21	0.06	0.23
(1,92)	1:17:A:LEU:H	1:16:A:SER:HB3	9	0.21	0.06	0.23
(1,1846)	1:170:A:THR:HG21	1:72:A:VAL:HG13	9	0.2	0.04	0.21
(1,1846)	1:170:A:THR:HG23	1:72:A:VAL:HG12	9	0.2	0.04	0.21
(1,1846)	1:170:A:THR:HG22	1:72:A:VAL:HG13	9	0.2	0.04	0.21
(1,1846)	1:170:A:THR:HG23	1:72:A:VAL:HG13	9	0.2	0.04	0.21
(1,1846)	1:170:A:THR:HG21	1:72:A:VAL:HG12	9	0.2	0.04	0.21
(1,1846)	1:170:A:THR:HG21	1:72:A:VAL:HG11	9	0.2	0.04	0.21
(1,1846)	1:170:A:THR:HG22	1:72:A:VAL:HG11	9	0.2	0.04	0.21
(1,3)	1:185:A:GLU:H	1:185:A:GLU:HG3	9	0.18	0.06	0.18
(1,3)	1:185:A:GLU:H	1:185:A:GLU:HG2	9	0.18	0.06	0.18
(1,1274)	1:163:A:TRP:HE1	1:77:A:VAL:HG11	9	0.18	0.06	0.16
(1,1274)	1:163:A:TRP:HE1	1:77:A:VAL:HG12	9	0.18	0.06	0.16
(1,1274)	1:163:A:TRP:HE1	1:77:A:VAL:HG13	9	0.18	0.06	0.16
(1,1888)	1:174:A:LEU:HD23	1:123:A:LYS:HG2	9	0.18	0.05	0.18
(1,1888)	1:174:A:LEU:HD21	1:123:A:LYS:HG2	9	0.18	0.05	0.18
(1,1888)	1:174:A:LEU:HD22	1:123:A:LYS:HG2	9	0.18	0.05	0.18
(1,3376)	1:53:A:MET:HG2	1:119:A:VAL:HB	9	0.15	0.04	0.14
(1,3491)	1:62:A:ALA:HA	1:110:A:PHE:HD2	9	0.13	0.02	0.12
(1,1584)	1:164:A:ILE:HG21	1:165:A:GLN:HB3	9	0.12	0.01	0.12
(1,1584)	1:164:A:ILE:HG23	1:165:A:GLN:HB3	9	0.12	0.01	0.12
(1,1584)	1:164:A:ILE:HG22	1:165:A:GLN:HB3	9	0.12	0.01	0.12
(1,2083)	1:182:A:ILE:HG12	1:182:A:ILE:HA	9	0.12	0.01	0.12

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2919)	1:141:A:SER:HB2	1:56:A:LYS:HD3	8	1.63	0.1	1.64
(1,3394)	1:134:A:GLU:HG2	1:157:A:LYS:HG3	8	0.68	0.45	0.59
(1,2419)	1:106:A:GLN:HG3	1:105:A:ASP:HB3	8	0.6	0.16	0.62
(1,65)	1:15:A:GLN:H	1:15:A:GLN:HG2	8	0.57	0.1	0.6
(1,3214)	1:15:A:GLN:HB3	1:2:A:MET:HG2	8	0.57	0.32	0.52
(1,2091)	1:176:A:ARG:HG3	1:176:A:ARG:HD3	8	0.57	0.01	0.57
(1,2820)	1:16:A:SER:HB3	1:16:A:SER:HA	8	0.55	0.02	0.56
(1,2190)	1:123:A:LYS:HD3	1:180:A:GLU:HA	8	0.53	0.43	0.32
(1,1519)	1:109:A:ILE:HD13	1:104:A:LYS:HG2	8	0.52	0.2	0.62
(1,1519)	1:109:A:ILE:HD12	1:104:A:LYS:HG2	8	0.52	0.2	0.62
(1,1519)	1:109:A:ILE:HD11	1:104:A:LYS:HG2	8	0.52	0.2	0.62
(1,445)	1:70:A:LYS:HA	1:70:A:LYS:HD3	8	0.52	0.38	0.42
(1,445)	1:70:A:LYS:HA	1:70:A:LYS:HD2	8	0.52	0.38	0.42
(1,2213)	1:10:A:GLN:HB3	1:10:A:GLN:HG2	8	0.49	0.01	0.5
(1,404)	1:36:A:LYS:HA	1:35:A:GLU:HB3	8	0.43	0.1	0.48
(1,404)	1:56:A:LYS:HA	1:144:A:MET:HE2	8	0.43	0.1	0.48
(1,404)	1:56:A:LYS:HA	1:144:A:MET:HE3	8	0.43	0.1	0.48
(1,404)	1:56:A:LYS:HA	1:144:A:MET:HE1	8	0.43	0.1	0.48
(1,2753)	1:155:A:SER:HA	1:78:A:PHE:HD2	8	0.4	0.1	0.45
(1,2753)	1:155:A:SER:HA	1:78:A:PHE:HD1	8	0.4	0.1	0.45
(1,2669)	1:10:A:GLN:HA	1:10:A:GLN:HB2	8	0.4	0.08	0.44
(1,3501)	1:86:A:LEU:HB2	1:78:A:PHE:HD2	8	0.38	0.1	0.37
(1,269)	1:5:A:ASP:HB2	1:8:A:VAL:HG23	8	0.37	0.24	0.3
(1,269)	1:5:A:ASP:HB2	1:8:A:VAL:HG22	8	0.37	0.24	0.3
(1,269)	1:5:A:ASP:HB2	1:8:A:VAL:HG21	8	0.37	0.24	0.3
(1,2072)	1:98:A:LEU:HD13	1:93:A:LEU:HD22	8	0.34	0.17	0.32
(1,2072)	1:98:A:LEU:HD11	1:93:A:LEU:HD22	8	0.34	0.17	0.32
(1,2072)	1:98:A:LEU:HD13	1:93:A:LEU:HD21	8	0.34	0.17	0.32
(1,2072)	1:98:A:LEU:HD13	1:93:A:LEU:HD23	8	0.34	0.17	0.32
(1,2072)	1:98:A:LEU:HD12	1:93:A:LEU:HD21	8	0.34	0.17	0.32
(1,2072)	1:98:A:LEU:HD12	1:93:A:LEU:HD23	8	0.34	0.17	0.32
(1,942)	1:178:A:GLU:H	1:177:A:ASP:HB3	8	0.34	0.02	0.34
(1,1354)	1:15:A:GLN:H	1:15:A:GLN:HB2	8	0.32	0.18	0.29
(1,459)	1:15:A:GLN:HB2	1:4:A:LYS:HE3	8	0.31	0.08	0.28
(1,459)	1:15:A:GLN:HB2	1:4:A:LYS:HE2	8	0.31	0.08	0.28
(1,2197)	1:68:A:ARG:HB3	1:68:A:ARG:HD3	8	0.28	0.06	0.29
(1,273)	1:50:A:LYS:HG3	1:50:A:LYS:HE3	8	0.26	0.03	0.26
(1,3407)	1:55:A:MET:HE2	1:119:A:VAL:HA	8	0.25	0.05	0.26
(1,3407)	1:55:A:MET:HE1	1:119:A:VAL:HA	8	0.25	0.05	0.26
(1,3407)	1:55:A:MET:HE3	1:119:A:VAL:HA	8	0.25	0.05	0.26
(1,267)	1:22:A:ASP:HB3	1:22:A:ASP:HA	8	0.23	0.01	0.23
(1,267)	1:177:A:ASP:HB3	1:177:A:ASP:HA	8	0.23	0.01	0.23

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,23)	1:22:A:ASP:H	1:21:A:LYS:HG3	8	0.2	0.05	0.2
(1,23)	1:22:A:ASP:H	1:21:A:LYS:HG2	8	0.2	0.05	0.2
(1,3202)	1:152:A:VAL:HG23	1:137:A:LEU:HG	8	0.2	0.06	0.18
(1,3202)	1:152:A:VAL:HG21	1:137:A:LEU:HG	8	0.2	0.06	0.18
(1,3202)	1:152:A:VAL:HG22	1:137:A:LEU:HG	8	0.2	0.06	0.18
(1,304)	1:25:A:GLY:HA2	1:27:A:VAL:HB	8	0.17	0.05	0.15
(1,2542)	1:74:A:ASP:HB3	1:92:A:VAL:HG23	8	0.15	0.02	0.15
(1,2542)	1:74:A:ASP:HB3	1:92:A:VAL:HG21	8	0.15	0.02	0.15
(1,2542)	1:74:A:ASP:HB3	1:92:A:VAL:HG22	8	0.15	0.02	0.15
(1,3247)	1:2:A:MET:HG3	1:2:A:MET:HB3	8	0.15	0.04	0.12
(1,232)	1:30:A:LYS:HB3	1:30:A:LYS:HD3	8	0.14	0.03	0.13
(1,1222)	1:156:A:SER:H	1:154:A:ALA:HA	8	0.13	0.02	0.13
(1,2665)	1:70:A:LYS:HG2	1:70:A:LYS:HA	8	0.12	0.02	0.12
(1,2834)	1:33:A:SER:HB3	1:30:A:LYS:HG2	8	0.11	0.01	0.11
(1,1471)	1:37:A:LYS:H	1:37:A:LYS:HG3	8	0.11	0.01	0.11
(1,1484)	1:59:A:GLN:H	1:60:A:MET:H	8	0.11	0.01	0.12
(1,988)	1:158:A:GLU:H	1:158:A:GLU:HG3	7	0.92	0.1	0.96
(1,1544)	1:120:A:ILE:HD13	1:98:A:LEU:HD11	7	0.89	0.05	0.89
(1,1544)	1:120:A:ILE:HD11	1:98:A:LEU:HD12	7	0.89	0.05	0.89
(1,1544)	1:120:A:ILE:HD11	1:98:A:LEU:HD13	7	0.89	0.05	0.89
(1,2366)	1:42:A:GLU:HG3	1:38:A:VAL:HG13	7	0.89	0.49	1.25
(1,2366)	1:42:A:GLU:HG3	1:38:A:VAL:HG12	7	0.89	0.49	1.25
(1,2368)	1:134:A:GLU:HG3	1:135:A:LYS:HG3	7	0.82	0.56	1.19
(1,1434)	1:58:A:GLY:H	1:55:A:MET:HG2	7	0.76	0.16	0.83
(1,1549)	1:120:A:ILE:HD13	1:120:A:ILE:HB	7	0.74	0.03	0.74
(1,1549)	1:120:A:ILE:HD11	1:120:A:ILE:HB	7	0.74	0.03	0.74
(1,1661)	1:120:A:ILE:HG22	1:120:A:ILE:HG12	7	0.68	0.02	0.68
(1,1661)	1:120:A:ILE:HG23	1:120:A:ILE:HG12	7	0.68	0.02	0.68
(1,1661)	1:120:A:ILE:HG21	1:120:A:ILE:HG12	7	0.68	0.02	0.68
(1,1464)	1:180:A:GLU:H	1:180:A:GLU:HG2	7	0.62	0.18	0.62
(1,1828)	1:3:A:THR:HG21	1:3:A:THR:HA	7	0.61	0.06	0.63
(1,1828)	1:3:A:THR:HG23	1:3:A:THR:HA	7	0.61	0.06	0.63
(1,1828)	1:3:A:THR:HG22	1:3:A:THR:HA	7	0.61	0.06	0.63
(1,2032)	1:123:A:LYS:HG3	1:123:A:LYS:HE2	7	0.53	0.16	0.6
(1,1543)	1:120:A:ILE:HD11	1:98:A:LEU:HD21	7	0.52	0.05	0.53
(1,1543)	1:120:A:ILE:HD12	1:98:A:LEU:HD23	7	0.52	0.05	0.53
(1,1543)	1:120:A:ILE:HD12	1:98:A:LEU:HD22	7	0.52	0.05	0.53
(1,1543)	1:120:A:ILE:HD12	1:98:A:LEU:HD21	7	0.52	0.05	0.53
(1,331)	1:15:A:GLN:HA	1:15:A:GLN:HG2	7	0.47	0.24	0.51
(1,331)	1:15:A:GLN:HA	1:15:A:GLN:HG3	7	0.47	0.24	0.51
(1,1117)	1:65:A:ASP:H	1:64:A:GLU:HB2	7	0.45	0.26	0.35
(1,133)	1:86:A:LEU:HD12	1:153:A:HIS:HB2	7	0.43	0.15	0.49

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,133)	1:86:A:LEU:HD11	1:153:A:HIS:HB2	7	0.43	0.15	0.49
(1,133)	1:86:A:LEU:HD13	1:153:A:HIS:HB2	7	0.43	0.15	0.49
(1,391)	1:64:A:GLU:HG2	1:44:A:TYR:HE1	7	0.42	0.16	0.4
(1,391)	1:64:A:GLU:HG3	1:44:A:TYR:HE2	7	0.42	0.16	0.4
(1,391)	1:64:A:GLU:HG3	1:44:A:TYR:HE1	7	0.42	0.16	0.4
(1,110)	1:119:A:VAL:HG23	1:55:A:MET:HG2	7	0.42	0.08	0.39
(1,110)	1:119:A:VAL:HG22	1:55:A:MET:HG2	7	0.42	0.08	0.39
(1,110)	1:119:A:VAL:HG21	1:55:A:MET:HG2	7	0.42	0.08	0.39
(1,2832)	1:119:A:VAL:HA	1:120:A:ILE:HD12	7	0.34	0.11	0.36
(1,2832)	1:119:A:VAL:HA	1:120:A:ILE:HD13	7	0.34	0.11	0.36
(1,458)	1:15:A:GLN:HB3	1:4:A:LYS:HE3	7	0.32	0.13	0.26
(1,458)	1:15:A:GLN:HB3	1:4:A:LYS:HE2	7	0.32	0.13	0.26
(1,2490)	1:39:A:ARG:HD2	1:38:A:VAL:HG13	7	0.29	0.08	0.32
(1,2490)	1:39:A:ARG:HD2	1:38:A:VAL:HG11	7	0.29	0.08	0.32
(1,198)	1:56:A:LYS:HD3	1:121:A:SER:HB2	7	0.27	0.08	0.24
(1,198)	1:56:A:LYS:HD2	1:121:A:SER:HB2	7	0.27	0.08	0.24
(1,242)	1:4:A:LYS:HB3	1:4:A:LYS:HE2	7	0.24	0.09	0.21
(1,242)	1:4:A:LYS:HB3	1:4:A:LYS:HE3	7	0.24	0.09	0.21
(1,792)	1:87:A:LYS:H	1:78:A:PHE:HD1	7	0.22	0.03	0.21
(1,169)	1:30:A:LYS:HG3	1:21:A:LYS:HE3	7	0.21	0.1	0.15
(1,169)	1:30:A:LYS:HG3	1:21:A:LYS:HE2	7	0.21	0.1	0.15
(1,1936)	1:56:A:LYS:HG2	1:56:A:LYS:HA	7	0.21	0.06	0.23
(1,592)	1:120:A:ILE:H	1:120:A:ILE:HG12	7	0.18	0.01	0.18
(1,408)	1:49:A:SER:HB2	1:49:A:SER:HA	7	0.16	0.02	0.16
(1,1551)	1:120:A:ILE:HD11	1:100:A:PHE:HZ	7	0.16	0.01	0.16
(1,1551)	1:120:A:ILE:HD12	1:100:A:PHE:HZ	7	0.16	0.01	0.16
(1,1769)	1:86:A:LEU:HD23	1:78:A:PHE:HB2	7	0.16	0.04	0.15
(1,1769)	1:86:A:LEU:HD21	1:78:A:PHE:HB2	7	0.16	0.04	0.15
(1,1769)	1:86:A:LEU:HD22	1:78:A:PHE:HB2	7	0.16	0.04	0.15
(1,2894)	1:68:A:ARG:HB3	1:7:A:GLU:HA	7	0.16	0.06	0.14
(1,2889)	1:111:A:ALA:HB1	1:100:A:PHE:HA	7	0.15	0.04	0.15
(1,2889)	1:111:A:ALA:HB2	1:100:A:PHE:HA	7	0.15	0.04	0.15
(1,709)	1:74:A:ASP:H	1:73:A:ARG:HB3	7	0.15	0.02	0.14
(1,415)	1:18:A:SER:HA	1:18:A:SER:HB3	7	0.14	0.06	0.11
(1,1296)	1:67:A:LYS:H	1:69:A:LYS:HD2	7	0.13	0.02	0.13
(1,2240)	1:103:A:GLU:HB3	1:108:A:TYR:HE1	7	0.12	0.01	0.12
(1,2772)	1:29:A:SER:HA	1:32:A:ALA:HB3	7	0.12	0.02	0.11
(1,2772)	1:29:A:SER:HA	1:32:A:ALA:HB1	7	0.12	0.02	0.11
(1,2772)	1:29:A:SER:HA	1:32:A:ALA:HB2	7	0.12	0.02	0.11
(1,13)	1:26:A:ALA:H	1:25:A:GLY:HA3	7	0.11	0.01	0.11
(1,3056)	1:144:A:MET:HE1	1:145:A:THR:HG22	6	0.69	0.45	0.49
(1,3056)	1:144:A:MET:HE3	1:145:A:THR:HG21	6	0.69	0.45	0.49

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,3056)	1:144:A:MET:HE2	1:145:A:THR:HG23	6	0.69	0.45	0.49
(1,3056)	1:144:A:MET:HE1	1:145:A:THR:HG23	6	0.69	0.45	0.49
(1,3056)	1:144:A:MET:HE2	1:145:A:THR:HG21	6	0.69	0.45	0.49
(1,3019)	1:115:A:GLN:HG2	1:114:A:ASP:HB2	6	0.66	0.29	0.57
(1,484)	1:67:A:LYS:HD2	1:64:A:GLU:HG2	6	0.54	0.16	0.52
(1,484)	1:67:A:LYS:HD2	1:64:A:GLU:HG3	6	0.54	0.16	0.52
(1,3132)	1:4:A:LYS:HB3	1:4:A:LYS:HD3	6	0.52	0.2	0.62
(1,2810)	1:123:A:LYS:HA	1:123:A:LYS:HE2	6	0.5	0.02	0.5
(1,1425)	1:181:A:GLY:H	1:182:A:ILE:H	6	0.47	0.5	0.12
(1,369)	1:19:A:LEU:HB2	1:18:A:SER:HB2	6	0.41	0.13	0.46
(1,369)	1:16:A:SER:HB3	1:4:A:LYS:HG2	6	0.41	0.13	0.46
(1,2226)	1:11:A:GLU:HB3	1:177:A:ASP:HB3	6	0.36	0.17	0.33
(1,2294)	1:168:A:GLN:HG3	1:168:A:GLN:HA	6	0.34	0.1	0.38
(1,1644)	1:52:A:ILE:HG23	1:60:A:MET:HG2	6	0.32	0.09	0.35
(1,1644)	1:52:A:ILE:HG22	1:60:A:MET:HG2	6	0.32	0.09	0.35
(1,1644)	1:52:A:ILE:HG21	1:60:A:MET:HG2	6	0.32	0.09	0.35
(1,29)	1:8:A:VAL:H	1:8:A:VAL:HG23	6	0.32	0.06	0.31
(1,29)	1:8:A:VAL:H	1:8:A:VAL:HG22	6	0.32	0.06	0.31
(1,29)	1:8:A:VAL:H	1:8:A:VAL:HG21	6	0.32	0.06	0.31
(1,109)	1:97:A:ILE:HD13	1:119:A:VAL:HG21	6	0.3	0.11	0.3
(1,109)	1:97:A:ILE:HD11	1:119:A:VAL:HG22	6	0.3	0.11	0.3
(1,109)	1:97:A:ILE:HD13	1:119:A:VAL:HG23	6	0.3	0.11	0.3
(1,109)	1:97:A:ILE:HD13	1:119:A:VAL:HG22	6	0.3	0.11	0.3
(1,1367)	1:135:A:LYS:H	1:135:A:LYS:HG2	6	0.3	0.17	0.26
(1,1884)	1:174:A:LEU:HD21	1:12:A:ASP:HB2	6	0.28	0.08	0.32
(1,1884)	1:174:A:LEU:HD22	1:12:A:ASP:HB2	6	0.28	0.08	0.32
(1,1884)	1:174:A:LEU:HD23	1:12:A:ASP:HB2	6	0.28	0.08	0.32
(1,176)	1:124:A:LYS:HG2	1:124:A:LYS:HE3	6	0.25	0.04	0.28
(1,176)	1:124:A:LYS:HG2	1:124:A:LYS:HE2	6	0.25	0.04	0.28
(1,3034)	1:94:A:LEU:HD23	1:97:A:ILE:HG12	6	0.24	0.1	0.21
(1,3034)	1:94:A:LEU:HD22	1:97:A:ILE:HG12	6	0.24	0.1	0.21
(1,3034)	1:94:A:LEU:HD21	1:97:A:ILE:HG12	6	0.24	0.1	0.21
(1,2635)	1:6:A:ASN:HA	1:9:A:GLU:HB3	6	0.22	0.02	0.22
(1,271)	1:87:A:LYS:HE2	1:111:A:ALA:HB1	6	0.22	0.05	0.22
(1,271)	1:87:A:LYS:HE2	1:111:A:ALA:HB2	6	0.22	0.05	0.22
(1,271)	1:87:A:LYS:HE2	1:111:A:ALA:HB3	6	0.22	0.05	0.22
(1,870)	1:38:A:VAL:H	1:38:A:VAL:HG12	6	0.21	0.07	0.22
(1,870)	1:38:A:VAL:H	1:38:A:VAL:HG13	6	0.21	0.07	0.22
(1,870)	1:38:A:VAL:H	1:38:A:VAL:HG11	6	0.21	0.07	0.22
(1,587)	1:185:A:GLU:H	1:185:A:GLU:HB2	6	0.2	0.07	0.2
(1,1745)	1:77:A:VAL:HG13	1:163:A:TRP:HD1	6	0.2	0.08	0.2
(1,1745)	1:77:A:VAL:HG12	1:163:A:TRP:HD1	6	0.2	0.08	0.2

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1745)	1:77:A:VAL:HG11	1:163:A:TRP:HD1	6	0.2	0.08	0.2
(1,358)	1:155:A:SER:HA	1:135:A:LYS:HE2	6	0.19	0.05	0.19
(1,358)	1:155:A:SER:HA	1:135:A:LYS:HE3	6	0.19	0.05	0.19
(1,417)	1:156:A:SER:HB2	1:135:A:LYS:HE3	6	0.19	0.04	0.18
(1,417)	1:156:A:SER:HB2	1:135:A:LYS:HE2	6	0.19	0.04	0.18
(1,3517)	1:63:A:LYS:HG2	1:44:A:TYR:HE1	6	0.18	0.04	0.2
(1,3517)	1:63:A:LYS:HG2	1:44:A:TYR:HE2	6	0.18	0.04	0.2
(1,2912)	1:102:A:GLN:HA	1:89:A:VAL:HG23	6	0.18	0.05	0.17
(1,2912)	1:102:A:GLN:HA	1:89:A:VAL:HG21	6	0.18	0.05	0.17
(1,264)	1:81:A:ASN:HB2	1:79:A:LEU:HB3	6	0.17	0.06	0.15
(1,264)	1:81:A:ASN:HB2	1:83:A:ALA:HB2	6	0.17	0.06	0.15
(1,264)	1:81:A:ASN:HB2	1:83:A:ALA:HB1	6	0.17	0.06	0.15
(1,264)	1:81:A:ASN:HB2	1:83:A:ALA:HB3	6	0.17	0.06	0.15
(1,3007)	1:114:A:ASP:HB3	1:114:A:ASP:HA	6	0.17	0.0	0.17
(1,123)	1:150:A:VAL:HG23	1:79:A:LEU:HD21	6	0.16	0.06	0.14
(1,123)	1:150:A:VAL:HG23	1:79:A:LEU:HD22	6	0.16	0.06	0.14
(1,123)	1:150:A:VAL:HG21	1:79:A:LEU:HD22	6	0.16	0.06	0.14
(1,123)	1:79:A:LEU:HD22	1:152:A:VAL:HG21	6	0.16	0.06	0.14
(1,123)	1:150:A:VAL:HG21	1:79:A:LEU:HD21	6	0.16	0.06	0.14
(1,123)	1:150:A:VAL:HG23	1:79:A:LEU:HD23	6	0.16	0.06	0.14
(1,1929)	1:94:A:LEU:HD21	1:69:A:LYS:HD2	6	0.16	0.04	0.18
(1,1929)	1:94:A:LEU:HD22	1:69:A:LYS:HD2	6	0.16	0.04	0.18
(1,1929)	1:94:A:LEU:HD23	1:69:A:LYS:HD2	6	0.16	0.04	0.18
(1,555)	1:93:A:LEU:H	1:163:A:TRP:HZ2	6	0.16	0.06	0.14
(1,906)	1:116:A:LYS:H	1:117:A:SER:H	6	0.15	0.01	0.15
(1,855)	1:179:A:ASP:H	1:178:A:GLU:HB2	6	0.15	0.04	0.14
(1,2864)	1:118:A:THR:HB	1:113:A:LEU:HB2	6	0.14	0.04	0.14
(1,853)	1:179:A:ASP:H	1:178:A:GLU:HA	6	0.14	0.03	0.15
(1,1070)	1:162:A:SER:H	1:161:A:ASN:HD21	6	0.14	0.03	0.12
(1,204)	1:107:A:LYS:HD3	1:107:A:LYS:HG3	6	0.14	0.03	0.13
(1,192)	1:176:A:ARG:HG3	1:176:A:ARG:HB3	6	0.12	0.02	0.12
(1,2145)	1:36:A:LYS:HD2	1:71:A:LEU:HB2	6	0.12	0.01	0.12
(1,2521)	1:52:A:ILE:HB	1:110:A:PHE:HE2	6	0.12	0.0	0.12
(1,200)	1:36:A:LYS:HG3	1:36:A:LYS:HD3	6	0.11	0.01	0.12
(1,655)	1:122:A:LEU:H	1:123:A:LYS:H	6	0.11	0.01	0.11
(1,2328)	1:4:A:LYS:HB3	1:8:A:VAL:HG13	5	1.82	0.42	2.02
(1,2328)	1:4:A:LYS:HB3	1:8:A:VAL:HG12	5	1.82	0.42	2.02
(1,2328)	1:4:A:LYS:HB3	1:8:A:VAL:HG11	5	1.82	0.42	2.02
(1,1725)	1:8:A:VAL:HG22	1:8:A:VAL:HA	5	1.17	0.03	1.18
(1,1725)	1:8:A:VAL:HG23	1:8:A:VAL:HA	5	1.17	0.03	1.18
(1,1725)	1:8:A:VAL:HG21	1:8:A:VAL:HA	5	1.17	0.03	1.18
(1,2315)	1:4:A:LYS:HB3	1:4:A:LYS:HD2	5	0.98	0.05	0.96

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2920)	1:141:A:SER:HB2	1:56:A:LYS:HB3	5	0.81	0.36	0.81
(1,1014)	1:161:A:ASN:H	1:161:A:ASN:HD22	5	0.6	0.14	0.56
(1,962)	1:77:A:VAL:H	1:76:A:SER:HB3	5	0.56	0.06	0.55
(1,773)	1:42:A:GLU:H	1:42:A:GLU:HG3	5	0.47	0.05	0.46
(1,1075)	1:162:A:SER:H	1:161:A:ASN:HB2	5	0.45	0.03	0.45
(1,2696)	1:4:A:LYS:HA	1:4:A:LYS:HD2	5	0.44	0.09	0.47
(1,2424)	1:105:A:ASP:HB3	1:104:A:LYS:HG3	5	0.41	0.02	0.41
(1,1422)	1:134:A:GLU:H	1:135:A:LYS:HD2	5	0.41	0.38	0.2
(1,1797)	1:113:A:LEU:HD22	1:81:A:ASN:HB3	5	0.4	0.08	0.36
(1,1797)	1:113:A:LEU:HD21	1:81:A:ASN:HB3	5	0.4	0.08	0.36
(1,3265)	1:76:A:SER:HB2	1:76:A:SER:H	5	0.39	0.03	0.4
(1,2291)	1:4:A:LYS:HB3	1:9:A:GLU:HA	5	0.36	0.37	0.19
(1,2472)	1:157:A:LYS:HG2	1:157:A:LYS:HE3	5	0.35	0.23	0.21
(1,2751)	1:155:A:SER:HA	1:78:A:PHE:HE1	5	0.29	0.19	0.21
(1,2751)	1:155:A:SER:HA	1:78:A:PHE:HE2	5	0.29	0.19	0.21
(1,1672)	1:109:A:ILE:HG22	1:104:A:LYS:HB2	5	0.27	0.07	0.3
(1,1672)	1:109:A:ILE:HG21	1:104:A:LYS:HB2	5	0.27	0.07	0.3
(1,1672)	1:109:A:ILE:HG23	1:104:A:LYS:HB2	5	0.27	0.07	0.3
(1,285)	1:69:A:LYS:HE2	1:97:A:ILE:HB	5	0.22	0.05	0.21
(1,2292)	1:4:A:LYS:HB2	1:9:A:GLU:HA	5	0.22	0.09	0.2
(1,3363)	1:52:A:ILE:HG13	1:60:A:MET:HG2	5	0.22	0.02	0.21
(1,2374)	1:42:A:GLU:HG3	1:42:A:GLU:HA	5	0.2	0.02	0.21
(1,724)	1:19:A:LEU:H	1:18:A:SER:HA	5	0.19	0.05	0.15
(1,2441)	1:146:A:ASP:HB2	1:147:A:PRO:HD3	5	0.19	0.08	0.16
(1,3453)	1:67:A:LYS:HB3	1:44:A:TYR:HD2	5	0.19	0.07	0.17
(1,3453)	1:67:A:LYS:HB3	1:44:A:TYR:HD1	5	0.19	0.07	0.17
(1,1668)	1:97:A:ILE:HG23	1:121:A:SER:HB3	5	0.18	0.05	0.2
(1,1668)	1:97:A:ILE:HG21	1:121:A:SER:HB3	5	0.18	0.05	0.2
(1,2064)	1:137:A:LEU:HD21	1:164:A:ILE:HG12	5	0.18	0.09	0.11
(1,2064)	1:137:A:LEU:HD22	1:164:A:ILE:HG12	5	0.18	0.09	0.11
(1,2064)	1:137:A:LEU:HD23	1:164:A:ILE:HG12	5	0.18	0.09	0.11
(1,1110)	1:73:A:ARG:H	1:73:A:ARG:HB2	5	0.17	0.02	0.17
(1,1353)	1:15:A:GLN:H	1:15:A:GLN:HB3	5	0.17	0.02	0.17
(1,334)	1:7:A:GLU:HB2	1:7:A:GLU:HA	5	0.16	0.05	0.16
(1,334)	1:65:A:ASP:HB2	1:65:A:ASP:HA	5	0.16	0.05	0.16
(1,2182)	1:80:A:LYS:HD2	1:84:A:GLY:HA2	5	0.16	0.03	0.17
(1,2948)	1:53:A:MET:HE3	1:110:A:PHE:HE1	5	0.16	0.03	0.16
(1,2948)	1:53:A:MET:HE1	1:110:A:PHE:HE1	5	0.16	0.03	0.16
(1,2948)	1:53:A:MET:HE2	1:110:A:PHE:HE1	5	0.16	0.03	0.16
(1,2203)	1:42:A:GLU:HB3	1:39:A:ARG:HA	5	0.15	0.01	0.16
(1,2929)	1:166:A:ILE:HB	1:169:A:ASP:HB3	5	0.15	0.05	0.13
(1,3503)	1:78:A:PHE:HE1	1:78:A:PHE:H	5	0.15	0.05	0.13

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,238)	1:52:A:ILE:HD11	1:60:A:MET:HG2	5	0.15	0.02	0.15
(1,238)	1:52:A:ILE:HG22	1:60:A:MET:HG2	5	0.15	0.02	0.15
(1,238)	1:52:A:ILE:HD12	1:60:A:MET:HG2	5	0.15	0.02	0.15
(1,1229)	1:156:A:SER:H	1:154:A:ALA:HB3	5	0.15	0.04	0.15
(1,1229)	1:156:A:SER:H	1:154:A:ALA:HB1	5	0.15	0.04	0.15
(1,1229)	1:156:A:SER:H	1:154:A:ALA:HB2	5	0.15	0.04	0.15
(1,960)	1:77:A:VAL:H	1:90:A:GLN:HA	5	0.13	0.02	0.14
(1,2183)	1:80:A:LYS:HD3	1:153:A:HIS:HD2	5	0.13	0.03	0.12
(1,2809)	1:110:A:PHE:HA	1:52:A:ILE:HA	5	0.13	0.02	0.12
(1,3030)	1:69:A:LYS:HE2	1:97:A:ILE:H	5	0.13	0.01	0.13
(1,2033)	1:123:A:LYS:HG3	1:123:A:LYS:HB3	5	0.12	0.01	0.12
(1,1406)	1:172:A:ASN:HD22	1:172:A:ASN:HA	5	0.12	0.01	0.11
(1,1873)	1:66:A:LEU:HD21	1:66:A:LEU:HD12	5	0.12	0.01	0.12
(1,1873)	1:66:A:LEU:HD22	1:66:A:LEU:HD13	5	0.12	0.01	0.12
(1,2026)	1:37:A:LYS:HG2	1:34:A:TYR:HA	5	0.11	0.01	0.11
(1,895)	1:176:A:ARG:H	1:176:A:ARG:HB2	5	0.11	0.01	0.11
(1,1348)	1:51:A:SER:H	1:51:A:SER:HB3	4	0.93	0.02	0.94
(1,1925)	1:139:A:LEU:HD23	1:137:A:LEU:HG	4	0.67	0.46	0.68
(1,1925)	1:139:A:LEU:HD21	1:137:A:LEU:HG	4	0.67	0.46	0.68
(1,2916)	1:141:A:SER:HB3	1:120:A:ILE:HG22	4	0.62	0.26	0.76
(1,2916)	1:141:A:SER:HB3	1:120:A:ILE:HG23	4	0.62	0.26	0.76
(1,2916)	1:141:A:SER:HB3	1:120:A:ILE:HG21	4	0.62	0.26	0.76
(1,2970)	1:176:A:ARG:HD3	1:176:A:ARG:HA	4	0.59	0.1	0.62
(1,151)	1:50:A:LYS:HG2	1:49:A:SER:HB3	4	0.55	0.17	0.48
(1,151)	1:50:A:LYS:HG2	1:49:A:SER:HB2	4	0.55	0.17	0.48
(1,1386)	1:175:A:ASN:HD21	1:171:A:ILE:HG23	4	0.53	0.14	0.59
(1,1386)	1:175:A:ASN:HD21	1:171:A:ILE:HG22	4	0.53	0.14	0.59
(1,1386)	1:175:A:ASN:HD21	1:171:A:ILE:HG21	4	0.53	0.14	0.59
(1,2680)	1:50:A:LYS:HG2	1:50:A:LYS:HA	4	0.53	0.02	0.52
(1,913)	1:50:A:LYS:H	1:50:A:LYS:HG2	4	0.52	0.02	0.53
(1,2664)	1:68:A:ARG:HA	1:68:A:ARG:HG2	4	0.52	0.23	0.64
(1,2519)	1:68:A:ARG:HD3	1:68:A:ARG:HA	4	0.5	0.38	0.42
(1,3180)	1:35:A:GLU:HB3	1:35:A:GLU:HG2	4	0.43	0.0	0.43
(1,3216)	1:15:A:GLN:HB3	1:2:A:MET:HG3	4	0.39	0.1	0.43
(1,461)	1:98:A:LEU:HD23	1:93:A:LEU:HB2	4	0.38	0.13	0.33
(1,461)	1:98:A:LEU:HD21	1:93:A:LEU:HB2	4	0.38	0.13	0.33
(1,2218)	1:166:A:ILE:HG13	1:166:A:ILE:HG23	4	0.37	0.01	0.37
(1,2218)	1:166:A:ILE:HG13	1:166:A:ILE:HG21	4	0.37	0.01	0.37
(1,1526)	1:166:A:ILE:HD13	1:166:A:ILE:HA	4	0.36	0.01	0.36
(1,1526)	1:166:A:ILE:HD12	1:166:A:ILE:HA	4	0.36	0.01	0.36
(1,1355)	1:15:A:GLN:H	1:14:A:ALA:HB3	4	0.36	0.05	0.36
(1,1355)	1:15:A:GLN:H	1:14:A:ALA:HB1	4	0.36	0.05	0.36

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2378)	1:35:A:GLU:HG3	1:35:A:GLU:HA	4	0.35	0.01	0.36
(1,3127)	1:38:A:VAL:HG11	1:35:A:GLU:HG2	4	0.35	0.03	0.35
(1,3127)	1:38:A:VAL:HG13	1:35:A:GLU:HG2	4	0.35	0.03	0.35
(1,3127)	1:38:A:VAL:HG12	1:35:A:GLU:HG2	4	0.35	0.03	0.35
(1,17)	1:14:A:ALA:H	1:19:A:LEU:HB3	4	0.32	0.09	0.28
(1,17)	1:14:A:ALA:H	1:19:A:LEU:HB2	4	0.32	0.09	0.28
(1,925)	1:177:A:ASP:H	1:176:A:ARG:HG2	4	0.29	0.08	0.28
(1,2813)	1:157:A:LYS:HA	1:134:A:GLU:HG3	4	0.29	0.12	0.29
(1,1225)	1:156:A:SER:H	1:156:A:SER:HB2	4	0.28	0.21	0.16
(1,2012)	1:63:A:LYS:HG3	1:44:A:TYR:HE2	4	0.27	0.06	0.29
(1,2012)	1:63:A:LYS:HG3	1:44:A:TYR:HE1	4	0.27	0.06	0.29
(1,3008)	1:50:A:LYS:HD3	1:50:A:LYS:HA	4	0.27	0.02	0.28
(1,2445)	1:166:A:ILE:HD13	1:169:A:ASP:HB2	4	0.26	0.02	0.26
(1,2445)	1:166:A:ILE:HD12	1:169:A:ASP:HB2	4	0.26	0.02	0.26
(1,1600)	1:149:A:MET:HE1	1:138:A:PHE:HB2	4	0.23	0.07	0.26
(1,1600)	1:149:A:MET:HE3	1:138:A:PHE:HB2	4	0.23	0.07	0.26
(1,70)	1:106:A:GLN:HE22	1:106:A:GLN:HG2	4	0.22	0.01	0.22
(1,70)	1:106:A:GLN:HE22	1:106:A:GLN:HG3	4	0.22	0.01	0.22
(1,3043)	1:88:A:GLU:HB3	1:78:A:PHE:HD1	4	0.19	0.06	0.2
(1,2705)	1:135:A:LYS:HA	1:154:A:ALA:HB2	4	0.19	0.08	0.16
(1,2705)	1:135:A:LYS:HA	1:154:A:ALA:HB3	4	0.19	0.08	0.16
(1,1938)	1:50:A:LYS:HG3	1:50:A:LYS:HB2	4	0.17	0.0	0.17
(1,1532)	1:52:A:ILE:HD11	1:60:A:MET:HG2	4	0.16	0.04	0.15
(1,1532)	1:52:A:ILE:HD12	1:60:A:MET:HG2	4	0.16	0.04	0.15
(1,1532)	1:52:A:ILE:HD13	1:60:A:MET:HG2	4	0.16	0.04	0.15
(1,795)	1:11:A:GLU:H	1:10:A:GLN:HB3	4	0.15	0.03	0.15
(1,2209)	1:42:A:GLU:HB2	1:43:A:ILE:HD12	4	0.15	0.02	0.16
(1,2209)	1:42:A:GLU:HB2	1:43:A:ILE:HD11	4	0.15	0.02	0.16
(1,2209)	1:42:A:GLU:HB2	1:43:A:ILE:HD13	4	0.15	0.02	0.16
(1,2479)	1:80:A:LYS:HE3	1:84:A:GLY:HA3	4	0.14	0.02	0.16
(1,1395)	1:17:A:LEU:H	1:16:A:SER:HA	4	0.14	0.04	0.12
(1,3144)	1:34:A:TYR:HB2	1:31:A:VAL:HG21	4	0.14	0.04	0.12
(1,665)	1:24:A:ILE:H	1:24:A:ILE:HG12	4	0.14	0.02	0.14
(1,2088)	1:125:A:LEU:HG	1:167:A:ILE:HG21	4	0.13	0.02	0.14
(1,2127)	1:137:A:LEU:HD13	1:164:A:ILE:H	4	0.13	0.02	0.13
(1,2127)	1:137:A:LEU:HD12	1:164:A:ILE:H	4	0.13	0.02	0.13
(1,2127)	1:137:A:LEU:HD11	1:164:A:ILE:H	4	0.13	0.02	0.13
(1,1517)	1:109:A:ILE:HD13	1:111:A:ALA:HA	4	0.13	0.02	0.14
(1,1517)	1:109:A:ILE:HD12	1:111:A:ALA:HA	4	0.13	0.02	0.14
(1,924)	1:177:A:ASP:H	1:177:A:ASP:HB3	4	0.12	0.03	0.12
(1,2329)	1:165:A:GLN:HG3	1:166:A:ILE:HG12	4	0.12	0.01	0.12
(1,3528)	1:78:A:PHE:HE1	1:78:A:PHE:HB3	4	0.12	0.01	0.12

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,3528)	1:78:A:PHE:HE2	1:78:A:PHE:HB3	4	0.12	0.01	0.12
(1,11)	1:98:A:LEU:H	1:97:A:ILE:HG21	4	0.12	0.01	0.12
(1,11)	1:98:A:LEU:H	1:97:A:ILE:HG22	4	0.12	0.01	0.12
(1,216)	1:37:A:LYS:HG3	1:37:A:LYS:HD2	4	0.12	0.01	0.11
(1,1871)	1:87:A:LYS:HG2	1:87:A:LYS:HE3	4	0.12	0.01	0.12
(1,2227)	1:178:A:GLU:HB3	1:178:A:GLU:HA	4	0.12	0.03	0.1
(1,1943)	1:37:A:LYS:HG3	1:34:A:TYR:HD1	4	0.11	0.01	0.11
(1,1943)	1:37:A:LYS:HG3	1:34:A:TYR:HD2	4	0.11	0.01	0.11
(1,3532)	1:153:A:HIS:HD2	1:133:A:GLU:HG3	3	1.53	0.21	1.53
(1,532)	1:94:A:LEU:H	1:93:A:LEU:HD11	3	1.4	0.08	1.36
(1,532)	1:94:A:LEU:H	1:93:A:LEU:HD12	3	1.4	0.08	1.36
(1,3110)	1:36:A:LYS:HE2	1:33:A:SER:HB3	3	1.3	0.17	1.26
(1,3109)	1:36:A:LYS:HE3	1:33:A:SER:HB3	3	1.24	0.08	1.23
(1,3066)	1:33:A:SER:HB2	1:30:A:LYS:HG2	3	1.01	0.02	1.02
(1,1358)	1:69:A:LYS:H	1:69:A:LYS:HB2	3	0.94	0.02	0.95
(1,419)	1:117:A:SER:HB3	1:120:A:ILE:HD13	3	0.88	0.21	0.77
(1,419)	1:117:A:SER:HB3	1:120:A:ILE:HD12	3	0.88	0.21	0.77
(1,1174)	1:68:A:ARG:H	1:68:A:ARG:HG2	3	0.81	0.12	0.76
(1,1315)	1:179:A:ASP:H	1:179:A:ASP:HB3	3	0.8	0.0	0.8
(1,2016)	1:93:A:LEU:HD13	1:98:A:LEU:HG	3	0.73	0.08	0.69
(1,2016)	1:93:A:LEU:HD11	1:98:A:LEU:HG	3	0.73	0.08	0.69
(1,1937)	1:56:A:LYS:HG2	1:121:A:SER:HB3	3	0.66	0.55	0.41
(1,998)	1:119:A:VAL:H	1:117:A:SER:HB3	3	0.63	0.14	0.53
(1,211)	1:109:A:ILE:HD12	1:104:A:LYS:HD3	3	0.61	0.15	0.6
(1,211)	1:109:A:ILE:HD13	1:104:A:LYS:HD3	3	0.61	0.15	0.6
(1,387)	1:70:A:LYS:HB2	1:70:A:LYS:HD3	3	0.54	0.04	0.52
(1,387)	1:70:A:LYS:HB3	1:70:A:LYS:HD2	3	0.54	0.04	0.52
(1,2858)	1:176:A:ARG:HD3	1:173:A:THR:HA	3	0.53	0.05	0.52
(1,3158)	1:179:A:ASP:HA	1:179:A:ASP:HB2	3	0.53	0.0	0.53
(1,2215)	1:109:A:ILE:HD12	1:104:A:LYS:HD3	3	0.53	0.16	0.52
(1,2215)	1:109:A:ILE:HD13	1:104:A:LYS:HD3	3	0.53	0.16	0.52
(1,2865)	1:93:A:LEU:HD22	1:167:A:ILE:HA	3	0.51	0.16	0.57
(1,2865)	1:93:A:LEU:HD21	1:167:A:ILE:HA	3	0.51	0.16	0.57
(1,3023)	1:140:A:ILE:HD12	1:139:A:LEU:HA	3	0.51	0.04	0.5
(1,3023)	1:140:A:ILE:HD13	1:139:A:LEU:HA	3	0.51	0.04	0.5
(1,573)	1:113:A:LEU:H	1:112:A:SER:HB2	3	0.47	0.26	0.64
(1,3417)	1:47:A:THR:HG21	1:63:A:LYS:HE3	3	0.47	0.01	0.47
(1,3417)	1:47:A:THR:HG22	1:63:A:LYS:HE3	3	0.47	0.01	0.47
(1,1363)	1:90:A:GLN:HE22	1:90:A:GLN:HG3	3	0.44	0.12	0.53
(1,1042)	1:70:A:LYS:H	1:69:A:LYS:HB3	3	0.43	0.02	0.43
(1,3311)	1:102:A:GLN:HG3	1:109:A:ILE:HD11	3	0.42	0.02	0.42
(1,3311)	1:102:A:GLN:HG3	1:109:A:ILE:HD12	3	0.42	0.02	0.42

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,3311)	1:102:A:GLN:HG3	1:109:A:ILE:HD13	3	0.42	0.02	0.42
(1,1893)	1:94:A:LEU:HD12	1:71:A:LEU:HA	3	0.42	0.05	0.4
(1,1893)	1:94:A:LEU:HD11	1:71:A:LEU:HA	3	0.42	0.05	0.4
(1,1567)	1:171:A:ILE:HD12	1:174:A:LEU:HD13	3	0.4	0.11	0.46
(1,1567)	1:171:A:ILE:HD11	1:174:A:LEU:HD12	3	0.4	0.11	0.46
(1,1567)	1:171:A:ILE:HD11	1:174:A:LEU:HD11	3	0.4	0.11	0.46
(1,1975)	1:101:A:LEU:HD11	1:90:A:GLN:HG2	3	0.39	0.12	0.47
(1,1975)	1:101:A:LEU:HD13	1:90:A:GLN:HG2	3	0.39	0.12	0.47
(1,277)	1:157:A:LYS:HE3	1:134:A:GLU:HB3	3	0.38	0.06	0.35
(1,277)	1:157:A:LYS:HE3	1:134:A:GLU:HB2	3	0.38	0.06	0.35
(1,2822)	1:121:A:SER:HB2	1:185:A:GLU:HA	3	0.38	0.38	0.12
(1,1423)	1:134:A:GLU:H	1:134:A:GLU:HG2	3	0.38	0.14	0.48
(1,1294)	1:155:A:SER:H	1:155:A:SER:HB3	3	0.38	0.01	0.38
(1,893)	1:176:A:ARG:H	1:175:A:ASN:HB2	3	0.37	0.11	0.41
(1,1295)	1:118:A:THR:H	1:117:A:SER:HB3	3	0.34	0.01	0.35
(1,1466)	1:10:A:GLN:H	1:10:A:GLN:HG2	3	0.34	0.23	0.2
(1,3521)	1:133:A:GLU:HG2	1:132:A:HIS:HD2	3	0.33	0.12	0.35
(1,905)	1:97:A:ILE:H	1:94:A:LEU:HD21	3	0.31	0.2	0.17
(1,905)	1:97:A:ILE:H	1:94:A:LEU:HD22	3	0.31	0.2	0.17
(1,905)	1:97:A:ILE:H	1:94:A:LEU:HD23	3	0.31	0.2	0.17
(1,3457)	1:86:A:LEU:HD13	1:153:A:HIS:HE1	3	0.31	0.14	0.38
(1,3457)	1:86:A:LEU:HD11	1:153:A:HIS:HE1	3	0.31	0.14	0.38
(1,2312)	1:168:A:GLN:HG3	1:164:A:ILE:HG23	3	0.28	0.09	0.3
(1,2312)	1:168:A:GLN:HG3	1:164:A:ILE:HG22	3	0.28	0.09	0.3
(1,2312)	1:168:A:GLN:HG3	1:164:A:ILE:HG21	3	0.28	0.09	0.3
(1,1282)	1:22:A:ASP:H	1:22:A:ASP:HB2	3	0.28	0.01	0.27
(1,2844)	1:95:A:THR:HA	1:72:A:VAL:HG12	3	0.27	0.07	0.31
(1,2844)	1:95:A:THR:HA	1:72:A:VAL:HG11	3	0.27	0.07	0.31
(1,1663)	1:120:A:ILE:HG22	1:141:A:SER:HB2	3	0.26	0.13	0.25
(1,1663)	1:120:A:ILE:HG23	1:141:A:SER:HB2	3	0.26	0.13	0.25
(1,1885)	1:174:A:LEU:HD21	1:12:A:ASP:HB3	3	0.25	0.08	0.23
(1,1885)	1:174:A:LEU:HD22	1:12:A:ASP:HB3	3	0.25	0.08	0.23
(1,1885)	1:174:A:LEU:HD23	1:12:A:ASP:HB3	3	0.25	0.08	0.23
(1,3456)	1:133:A:GLU:HG3	1:153:A:HIS:HE1	3	0.25	0.03	0.25
(1,476)	1:37:A:LYS:HG3	1:68:A:ARG:HA	3	0.24	0.04	0.26
(1,476)	1:104:A:LYS:HA	1:104:A:LYS:HG2	3	0.24	0.04	0.26
(1,436)	1:18:A:SER:HB2	1:19:A:LEU:HG	3	0.23	0.1	0.19
(1,1080)	1:123:A:LYS:H	1:174:A:LEU:HD12	3	0.23	0.07	0.2
(1,1080)	1:123:A:LYS:H	1:174:A:LEU:HD13	3	0.23	0.07	0.2
(1,2350)	1:102:A:GLN:HG3	1:89:A:VAL:HG12	3	0.23	0.04	0.21
(1,2350)	1:102:A:GLN:HG3	1:89:A:VAL:HG11	3	0.23	0.04	0.21
(1,2350)	1:102:A:GLN:HG3	1:89:A:VAL:HG13	3	0.23	0.04	0.21

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,3381)	1:67:A:LYS:HA	1:40:A:LEU:HD11	3	0.22	0.07	0.26
(1,3381)	1:67:A:LYS:HA	1:40:A:LEU:HD13	3	0.22	0.07	0.26
(1,3381)	1:67:A:LYS:HA	1:40:A:LEU:HD12	3	0.22	0.07	0.26
(1,1592)	1:55:A:MET:HE3	1:121:A:SER:HB2	3	0.21	0.1	0.17
(1,1592)	1:55:A:MET:HE2	1:121:A:SER:HB2	3	0.21	0.1	0.17
(1,1579)	1:182:A:ILE:HD11	1:185:A:GLU:HA	3	0.2	0.05	0.18
(1,1579)	1:182:A:ILE:HD12	1:185:A:GLU:HA	3	0.2	0.05	0.18
(1,2803)	1:37:A:LYS:HA	1:40:A:LEU:HD11	3	0.19	0.07	0.19
(1,2803)	1:37:A:LYS:HA	1:40:A:LEU:HD13	3	0.19	0.07	0.19
(1,3119)	1:63:A:LYS:HD3	1:63:A:LYS:HE2	3	0.18	0.0	0.18
(1,3342)	1:55:A:MET:HE3	1:61:A:PHE:HB3	3	0.18	0.06	0.19
(1,3342)	1:55:A:MET:HE1	1:61:A:PHE:HB3	3	0.18	0.06	0.19
(1,1993)	1:174:A:LEU:HD13	1:174:A:LEU:HB3	3	0.17	0.04	0.17
(1,1993)	1:174:A:LEU:HD12	1:174:A:LEU:HB3	3	0.17	0.04	0.17
(1,3118)	1:63:A:LYS:HG2	1:63:A:LYS:HE3	3	0.16	0.0	0.16
(1,2330)	1:165:A:GLN:HG2	1:166:A:ILE:HG12	3	0.15	0.01	0.15
(1,3187)	1:33:A:SER:HA	1:36:A:LYS:HB2	3	0.15	0.01	0.15
(1,3455)	1:133:A:GLU:HG2	1:153:A:HIS:HE1	3	0.14	0.02	0.13
(1,1207)	1:25:A:GLY:H	1:24:A:ILE:HB	3	0.14	0.01	0.14
(1,241)	1:10:A:GLN:HB2	1:10:A:GLN:HG2	3	0.13	0.01	0.13
(1,1364)	1:135:A:LYS:H	1:135:A:LYS:HG3	3	0.13	0.01	0.13
(1,2893)	1:154:A:ALA:HB1	1:159:A:GLU:HA	3	0.13	0.01	0.13
(1,2893)	1:154:A:ALA:HB2	1:159:A:GLU:HA	3	0.13	0.01	0.13
(1,2740)	1:134:A:GLU:HG2	1:134:A:GLU:HA	3	0.13	0.02	0.12
(1,3189)	1:33:A:SER:HA	1:36:A:LYS:HG2	3	0.13	0.02	0.12
(1,215)	1:15:A:GLN:HB3	1:15:A:GLN:HG2	3	0.12	0.02	0.12
(1,215)	1:15:A:GLN:HB3	1:15:A:GLN:HG3	3	0.12	0.02	0.12
(1,255)	1:106:A:GLN:HG2	1:105:A:ASP:HB3	3	0.12	0.01	0.11
(1,723)	1:19:A:LEU:H	1:20:A:VAL:H	3	0.12	0.01	0.11
(1,985)	1:158:A:GLU:H	1:156:A:SER:HA	3	0.12	0.02	0.1
(1,1299)	1:107:A:LYS:H	1:104:A:LYS:HA	3	0.12	0.01	0.11
(1,2724)	1:76:A:SER:HA	1:89:A:VAL:H	3	0.12	0.0	0.12
(1,3420)	1:69:A:LYS:HA	1:69:A:LYS:HD2	3	0.12	0.02	0.11
(1,1138)	1:165:A:GLN:H	1:162:A:SER:HA	3	0.11	0.01	0.11
(1,344)	1:162:A:SER:HB3	1:162:A:SER:HA	3	0.11	0.01	0.1
(1,344)	1:162:A:SER:HB2	1:162:A:SER:HA	3	0.11	0.01	0.1
(1,2065)	1:139:A:LEU:HD21	1:137:A:LEU:HD22	2	1.7	0.02	1.7
(1,2065)	1:139:A:LEU:HD22	1:137:A:LEU:HD21	2	1.7	0.02	1.7
(1,114)	1:72:A:VAL:HG13	1:70:A:LYS:HB3	2	1.42	1.26	1.42
(1,114)	1:72:A:VAL:HG13	1:70:A:LYS:HB2	2	1.42	1.26	1.42
(1,2577)	1:139:A:LEU:HD22	1:139:A:LEU:HA	2	1.21	0.01	1.21
(1,2577)	1:139:A:LEU:HD23	1:139:A:LEU:HA	2	1.21	0.01	1.21

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,541)	1:91:A:ALA:H	1:90:A:GLN:HG3	2	1.04	0.01	1.04
(1,1041)	1:70:A:LYS:H	1:94:A:LEU:HB2	2	1.0	0.01	1.0
(1,3147)	1:5:A:ASP:HB3	1:8:A:VAL:HG21	2	0.76	0.01	0.76
(1,3147)	1:5:A:ASP:HB3	1:8:A:VAL:HG23	2	0.76	0.01	0.76
(1,2965)	1:46:A:LYS:HE3	1:108:A:TYR:HE2	2	0.56	0.46	0.56
(1,1568)	1:171:A:ILE:HD12	1:93:A:LEU:HD13	2	0.55	0.1	0.55
(1,1568)	1:171:A:ILE:HD13	1:93:A:LEU:HD11	2	0.55	0.1	0.55
(1,2375)	1:178:A:GLU:HG2	1:178:A:GLU:HA	2	0.5	0.36	0.5
(1,2504)	1:73:A:ARG:HD3	1:166:A:ILE:HG23	2	0.48	0.02	0.48
(1,2140)	1:56:A:LYS:HD2	1:121:A:SER:HB3	2	0.46	0.32	0.46
(1,2303)	1:144:A:MET:HG2	1:145:A:THR:HG21	2	0.45	0.04	0.45
(1,2303)	1:144:A:MET:HG2	1:145:A:THR:HG23	2	0.45	0.04	0.45
(1,2117)	1:139:A:LEU:HD11	1:100:A:PHE:HZ	2	0.45	0.05	0.45
(1,434)	1:22:A:ASP:HB3	1:21:A:LYS:HA	2	0.42	0.16	0.42
(1,3235)	1:125:A:LEU:HD22	1:171:A:ILE:H	2	0.42	0.07	0.42
(1,3235)	1:125:A:LEU:HD21	1:171:A:ILE:H	2	0.42	0.07	0.42
(1,3131)	1:4:A:LYS:HA	1:3:A:THR:HG23	2	0.38	0.12	0.38
(1,3131)	1:4:A:LYS:HA	1:3:A:THR:HG21	2	0.38	0.12	0.38
(1,8)	1:71:A:LEU:H	1:70:A:LYS:HB3	2	0.36	0.01	0.36
(1,48)	1:18:A:SER:H	1:18:A:SER:HB2	2	0.36	0.07	0.36
(1,3177)	1:158:A:GLU:HG2	1:158:A:GLU:HB3	2	0.35	0.13	0.35
(1,2500)	1:73:A:ARG:HD2	1:73:A:ARG:HG3	2	0.34	0.0	0.34
(1,1685)	1:26:A:ALA:HB3	1:20:A:VAL:HA	2	0.33	0.09	0.33
(1,1685)	1:26:A:ALA:HB1	1:20:A:VAL:HA	2	0.33	0.09	0.33
(1,2027)	1:124:A:LYS:HG2	1:123:A:LYS:HB3	2	0.31	0.04	0.31
(1,1377)	1:175:A:ASN:HD22	1:171:A:ILE:HG22	2	0.3	0.12	0.3
(1,1377)	1:175:A:ASN:HD22	1:171:A:ILE:HG23	2	0.3	0.12	0.3
(1,2505)	1:166:A:ILE:HD11	1:73:A:ARG:HD3	2	0.29	0.0	0.29
(1,2505)	1:166:A:ILE:HD13	1:73:A:ARG:HD3	2	0.29	0.0	0.29
(1,98)	1:140:A:ILE:HD11	1:142:A:MET:HE1	2	0.26	0.0	0.26
(1,98)	1:140:A:ILE:HD12	1:142:A:MET:HE1	2	0.26	0.0	0.26
(1,50)	1:64:A:GLU:H	1:64:A:GLU:HG2	2	0.26	0.03	0.26
(1,2185)	1:93:A:LEU:HD22	1:170:A:THR:HB	2	0.26	0.02	0.26
(1,2185)	1:93:A:LEU:HD21	1:170:A:THR:HB	2	0.26	0.02	0.26
(1,3395)	1:134:A:GLU:HG3	1:157:A:LYS:HG3	2	0.26	0.08	0.26
(1,3531)	1:153:A:HIS:HA	1:153:A:HIS:HD2	2	0.22	0.1	0.22
(1,444)	1:166:A:ILE:HG23	1:93:A:LEU:HB3	2	0.21	0.01	0.21
(1,444)	1:166:A:ILE:HG21	1:93:A:LEU:HB3	2	0.21	0.01	0.21
(1,894)	1:176:A:ARG:H	1:175:A:ASN:HB3	2	0.21	0.09	0.21
(1,1632)	1:126:A:ILE:HG21	1:140:A:ILE:HG21	2	0.21	0.09	0.21
(1,1632)	1:126:A:ILE:HG22	1:140:A:ILE:HG23	2	0.21	0.09	0.21
(1,2704)	1:122:A:LEU:HG	1:122:A:LEU:HA	2	0.21	0.0	0.21

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1875)	1:66:A:LEU:HD23	1:66:A:LEU:HB2	2	0.2	0.03	0.2
(1,474)	1:135:A:LYS:HD3	1:135:A:LYS:HE3	2	0.18	0.05	0.18
(1,474)	1:135:A:LYS:HD3	1:135:A:LYS:HE2	2	0.18	0.05	0.18
(1,1376)	1:76:A:SER:H	1:90:A:GLN:HE22	2	0.18	0.0	0.18
(1,2476)	1:80:A:LYS:HE3	1:86:A:LEU:HD11	2	0.18	0.01	0.18
(1,18)	1:42:A:GLU:H	1:38:A:VAL:HG11	2	0.18	0.0	0.18
(1,18)	1:42:A:GLU:H	1:38:A:VAL:HG13	2	0.18	0.0	0.18
(1,76)	1:181:A:GLY:H	1:181:A:GLY:HA2	2	0.18	0.03	0.18
(1,1421)	1:134:A:GLU:H	1:134:A:GLU:HG3	2	0.18	0.02	0.18
(1,3228)	1:99:A:VAL:HG23	1:92:A:VAL:H	2	0.16	0.04	0.16
(1,3228)	1:99:A:VAL:HG21	1:92:A:VAL:H	2	0.16	0.04	0.16
(1,333)	1:7:A:GLU:HA	1:6:A:ASN:HB3	2	0.16	0.0	0.16
(1,3032)	1:97:A:ILE:HG12	1:119:A:VAL:HG21	2	0.16	0.02	0.16
(1,3032)	1:97:A:ILE:HG12	1:119:A:VAL:HG22	2	0.16	0.02	0.16
(1,1265)	1:95:A:THR:H	1:94:A:LEU:HB2	2	0.16	0.02	0.16
(1,3515)	1:38:A:VAL:HG23	1:34:A:TYR:HE2	2	0.16	0.04	0.16
(1,3515)	1:38:A:VAL:HG22	1:34:A:TYR:HE2	2	0.16	0.04	0.16
(1,355)	1:89:A:VAL:HA	1:103:A:GLU:HB2	2	0.15	0.02	0.15
(1,1783)	1:101:A:LEU:HD22	1:66:A:LEU:HD22	2	0.15	0.03	0.15
(1,1783)	1:101:A:LEU:HD21	1:66:A:LEU:HD23	2	0.15	0.03	0.15
(1,2921)	1:185:A:GLU:HB2	1:185:A:GLU:HA	2	0.15	0.0	0.15
(1,146)	1:50:A:LYS:HG3	1:50:A:LYS:HE3	2	0.14	0.03	0.14
(1,352)	1:67:A:LYS:HA	1:40:A:LEU:HD23	2	0.14	0.02	0.14
(1,352)	1:67:A:LYS:HA	1:40:A:LEU:HD22	2	0.14	0.02	0.14
(1,711)	1:74:A:ASP:H	1:73:A:ARG:HG2	2	0.14	0.03	0.14
(1,1016)	1:161:A:ASN:H	1:158:A:GLU:HA	2	0.14	0.0	0.14
(1,2470)	1:157:A:LYS:HE3	1:134:A:GLU:HG3	2	0.14	0.04	0.14
(1,427)	1:28:A:ASP:HA	1:30:A:LYS:HB3	2	0.14	0.02	0.14
(1,429)	1:58:A:GLY:HA3	1:54:A:ARG:HD3	2	0.14	0.02	0.14
(1,429)	1:58:A:GLY:HA3	1:54:A:ARG:HD2	2	0.14	0.02	0.14
(1,2446)	1:28:A:ASP:HB2	1:27:A:VAL:HG12	2	0.14	0.02	0.14
(1,2446)	1:28:A:ASP:HB2	1:27:A:VAL:HG13	2	0.14	0.02	0.14
(1,68)	1:15:A:GLN:HE22	1:15:A:GLN:HG2	2	0.13	0.03	0.13
(1,663)	1:24:A:ILE:H	1:23:A:VAL:H	2	0.13	0.01	0.13
(1,641)	1:52:A:ILE:H	1:51:A:SER:HA	2	0.12	0.01	0.12
(1,102)	1:109:A:ILE:HD11	1:109:A:ILE:HG13	2	0.12	0.0	0.12
(1,102)	1:109:A:ILE:HD13	1:109:A:ILE:HG21	2	0.12	0.0	0.12
(1,722)	1:128:A:ARG:H	1:127:A:VAL:HG11	2	0.11	0.0	0.11
(1,722)	1:128:A:ARG:H	1:127:A:VAL:HG12	2	0.11	0.0	0.11
(1,2514)	1:157:A:LYS:HE3	1:157:A:LYS:HA	2	0.11	0.0	0.11
(1,3470)	1:66:A:LEU:HA	1:61:A:PHE:HE1	2	0.11	0.01	0.11
(1,527)	1:151:A:GLU:H	1:79:A:LEU:HA	2	0.11	0.0	0.11

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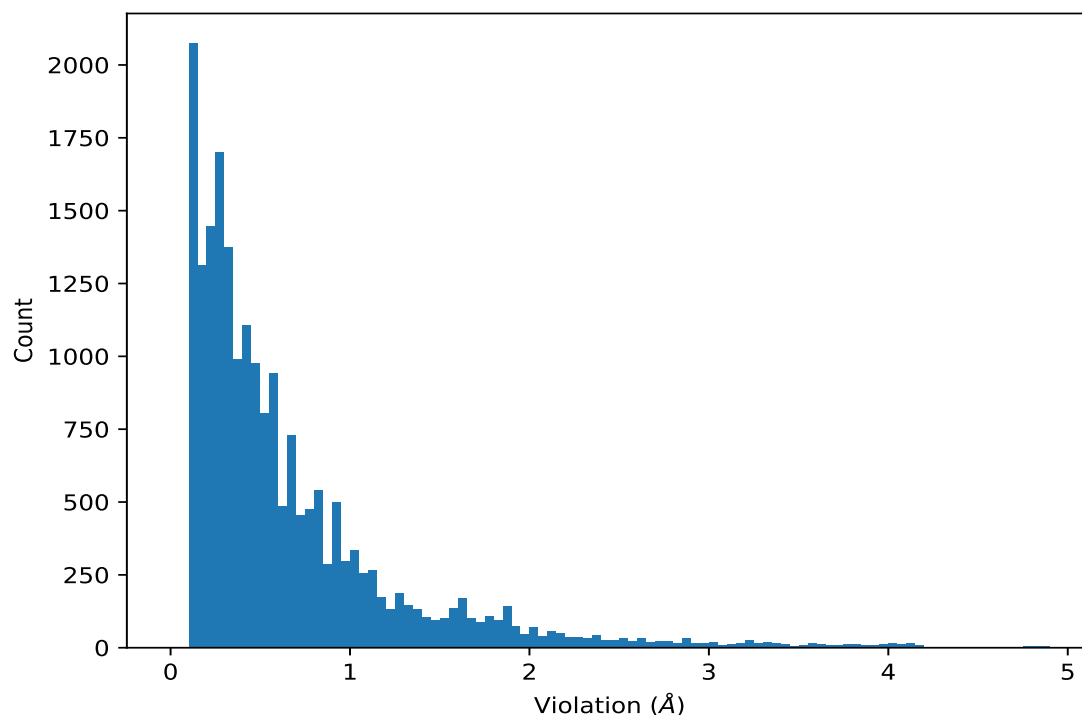
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,750)	1:160:A:ARG:H	1:159:A:GLU:HB2	2	0.11	0.0	0.11
(1,1347)	1:51:A:SER:H	1:50:A:LYS:HA	2	0.11	0.0	0.11
(1,1454)	1:35:A:GLU:H	1:35:A:GLU:HG2	2	0.11	0.0	0.11
(1,2676)	1:55:A:MET:HA	1:55:A:MET:HG3	2	0.11	0.0	0.11

¹Number of violated models, ²Standard 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)
(1,3382)	1:127:A:VAL:HG11	1:125:A:LEU:HB3	6	4.89
(1,3382)	1:127:A:VAL:HG13	1:125:A:LEU:HB3	17	4.89
(1,3382)	1:127:A:VAL:HG12	1:125:A:LEU:HB3	1	4.87
(1,3382)	1:127:A:VAL:HG11	1:125:A:LEU:HB3	7	4.86
(1,3382)	1:127:A:VAL:HG11	1:125:A:LEU:HB3	9	4.86
(1,3382)	1:127:A:VAL:HG11	1:125:A:LEU:HB3	13	4.86
(1,3382)	1:127:A:VAL:HG13	1:125:A:LEU:HB3	2	4.85
(1,3382)	1:127:A:VAL:HG13	1:125:A:LEU:HB3	15	4.84
(1,3382)	1:127:A:VAL:HG12	1:125:A:LEU:HB3	12	4.83
(1,3382)	1:127:A:VAL:HG13	1:125:A:LEU:HB3	16	4.82
(1,3382)	1:127:A:VAL:HG12	1:125:A:LEU:HB3	20	4.82
(1,3382)	1:127:A:VAL:HG13	1:125:A:LEU:HB3	14	4.81
(1,3382)	1:127:A:VAL:HG12	1:125:A:LEU:HB3	3	4.8
(1,3382)	1:127:A:VAL:HG13	1:125:A:LEU:HB3	5	4.8
(1,3382)	1:127:A:VAL:HG12	1:125:A:LEU:HB3	11	4.78
(1,3382)	1:127:A:VAL:HG11	1:125:A:LEU:HB3	18	4.77
(1,3382)	1:127:A:VAL:HG11	1:125:A:LEU:HB3	19	4.77
(1,3382)	1:127:A:VAL:HG11	1:125:A:LEU:HB3	4	4.73
(1,3382)	1:127:A:VAL:HG13	1:125:A:LEU:HB3	10	4.72
(1,3382)	1:127:A:VAL:HG12	1:125:A:LEU:HB3	8	4.69
(1,1754)	1:99:A:VAL:HG22	1:92:A:VAL:HG12	18	4.21
(1,490)	1:130:A:VAL:HG22	1:129:A:GLU:HG2	19	4.2
(1,1754)	1:99:A:VAL:HG22	1:92:A:VAL:HG13	1	4.19
(1,3469)	1:138:A:PHE:HD1	1:137:A:LEU:HD23	18	4.18
(1,490)	1:130:A:VAL:HG21	1:129:A:GLU:HG3	7	4.17
(1,490)	1:130:A:VAL:HG23	1:135:A:LYS:HB3	9	4.16
(1,490)	1:130:A:VAL:HG22	1:129:A:GLU:HG3	18	4.16
(1,1754)	1:99:A:VAL:HG21	1:92:A:VAL:HG12	3	4.15
(1,490)	1:130:A:VAL:HG22	1:129:A:GLU:HG3	16	4.15
(1,3469)	1:138:A:PHE:HD2	1:137:A:LEU:HD22	1	4.14
(1,490)	1:130:A:VAL:HG22	1:129:A:GLU:HG3	1	4.14
(1,490)	1:130:A:VAL:HG23	1:129:A:GLU:HG2	20	4.14
(1,3469)	1:138:A:PHE:HD2	1:137:A:LEU:HD21	4	4.13
(1,3469)	1:138:A:PHE:HD1	1:137:A:LEU:HD21	5	4.13
(1,3469)	1:138:A:PHE:HD2	1:137:A:LEU:HD21	6	4.13
(1,3469)	1:138:A:PHE:HD2	1:137:A:LEU:HD22	19	4.13
(1,3469)	1:138:A:PHE:HD2	1:137:A:LEU:HD21	20	4.13
(1,490)	1:130:A:VAL:HG23	1:129:A:GLU:HG3	4	4.13
(1,3469)	1:138:A:PHE:HD2	1:137:A:LEU:HD22	7	4.12
(1,3469)	1:138:A:PHE:HD1	1:137:A:LEU:HD21	9	4.12
(1,3469)	1:138:A:PHE:HD2	1:137:A:LEU:HD23	12	4.12
(1,3469)	1:138:A:PHE:HD2	1:137:A:LEU:HD23	16	4.12
(1,490)	1:130:A:VAL:HG23	1:129:A:GLU:HG2	12	4.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3469)	1:138:A:PHE:HD1	1:137:A:LEU:HD22	10	4.11
(1,3469)	1:138:A:PHE:HD2	1:137:A:LEU:HD23	14	4.11
(1,490)	1:130:A:VAL:HG22	1:129:A:GLU:HG2	8	4.11
(1,3469)	1:138:A:PHE:HD1	1:137:A:LEU:HD23	11	4.1
(1,3469)	1:138:A:PHE:HD1	1:137:A:LEU:HD23	15	4.1
(1,1754)	1:99:A:VAL:HG23	1:92:A:VAL:HG13	4	4.1
(1,1754)	1:99:A:VAL:HG23	1:92:A:VAL:HG12	9	4.1
(1,490)	1:130:A:VAL:HG23	1:129:A:GLU:HG2	5	4.1
(1,490)	1:130:A:VAL:HG23	1:129:A:GLU:HG2	6	4.1
(1,3469)	1:138:A:PHE:HD1	1:137:A:LEU:HD22	3	4.09
(1,1754)	1:99:A:VAL:HG22	1:92:A:VAL:HG13	10	4.08
(1,1754)	1:99:A:VAL:HG21	1:92:A:VAL:HG11	12	4.08
(1,490)	1:130:A:VAL:HG21	1:129:A:GLU:HG2	2	4.08
(1,490)	1:130:A:VAL:HG22	1:135:A:LYS:HB3	14	4.08
(1,490)	1:130:A:VAL:HG22	1:129:A:GLU:HG2	11	4.07
(1,1754)	1:99:A:VAL:HG21	1:92:A:VAL:HG11	13	4.04
(1,1754)	1:99:A:VAL:HG23	1:92:A:VAL:HG13	14	4.04
(1,490)	1:130:A:VAL:HG23	1:135:A:LYS:HB3	13	4.04
(1,1807)	1:127:A:VAL:HG22	1:168:A:GLN:HG3	20	4.03
(1,1754)	1:99:A:VAL:HG21	1:92:A:VAL:HG11	2	4.03
(1,490)	1:130:A:VAL:HG21	1:129:A:GLU:HG2	15	4.03
(1,490)	1:130:A:VAL:HG21	1:129:A:GLU:HG2	10	4.02
(1,3469)	1:138:A:PHE:HD2	1:137:A:LEU:HD21	8	4.01
(1,2623)	1:113:A:LEU:HA	1:79:A:LEU:HD11	3	4.01
(1,2623)	1:113:A:LEU:HA	1:79:A:LEU:HD13	4	4.01
(1,2623)	1:113:A:LEU:HA	1:79:A:LEU:HD13	10	4.01
(1,1807)	1:127:A:VAL:HG23	1:168:A:GLN:HG3	13	4.01
(1,1754)	1:99:A:VAL:HG21	1:92:A:VAL:HG13	17	4.0
(1,1754)	1:99:A:VAL:HG22	1:92:A:VAL:HG12	20	4.0
(1,3469)	1:138:A:PHE:HD2	1:137:A:LEU:HD22	13	3.99
(1,1754)	1:99:A:VAL:HG21	1:92:A:VAL:HG11	8	3.98
(1,490)	1:130:A:VAL:HG23	1:129:A:GLU:HG2	3	3.98
(1,2623)	1:113:A:LEU:HA	1:79:A:LEU:HD11	11	3.97
(1,2623)	1:113:A:LEU:HA	1:79:A:LEU:HD11	19	3.97
(1,1754)	1:99:A:VAL:HG23	1:92:A:VAL:HG13	11	3.97
(1,1754)	1:99:A:VAL:HG21	1:92:A:VAL:HG12	15	3.96
(1,1754)	1:99:A:VAL:HG21	1:92:A:VAL:HG11	16	3.96
(1,2623)	1:113:A:LEU:HA	1:79:A:LEU:HD12	8	3.95
(1,2623)	1:113:A:LEU:HA	1:79:A:LEU:HD12	13	3.95
(1,1754)	1:99:A:VAL:HG21	1:92:A:VAL:HG12	6	3.95
(1,2623)	1:113:A:LEU:HA	1:79:A:LEU:HD12	20	3.94
(1,2623)	1:113:A:LEU:HA	1:79:A:LEU:HD12	18	3.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3469)	1:138:A:PHE:HD1	1:137:A:LEU:HD23	2	3.92
(1,3469)	1:138:A:PHE:HD1	1:137:A:LEU:HD22	17	3.92
(1,1951)	1:66:A:LEU:HD13	1:92:A:VAL:HG11	13	3.92
(1,2623)	1:113:A:LEU:HA	1:79:A:LEU:HD13	15	3.91
(1,1951)	1:66:A:LEU:HD13	1:92:A:VAL:HG12	6	3.91
(1,1754)	1:99:A:VAL:HG21	1:92:A:VAL:HG11	5	3.91
(1,2623)	1:113:A:LEU:HA	1:79:A:LEU:HD13	16	3.89
(1,1807)	1:127:A:VAL:HG22	1:168:A:GLN:HG3	8	3.89
(1,2623)	1:113:A:LEU:HA	1:79:A:LEU:HD13	5	3.87
(1,2623)	1:113:A:LEU:HA	1:79:A:LEU:HD13	14	3.87
(1,2623)	1:113:A:LEU:HA	1:79:A:LEU:HD11	2	3.86
(1,1754)	1:99:A:VAL:HG21	1:92:A:VAL:HG13	7	3.86
(1,1807)	1:127:A:VAL:HG22	1:168:A:GLN:HG3	14	3.85
(1,1754)	1:99:A:VAL:HG21	1:92:A:VAL:HG11	19	3.85
(1,2623)	1:113:A:LEU:HA	1:79:A:LEU:HD13	9	3.84
(1,1951)	1:66:A:LEU:HD13	1:92:A:VAL:HG11	19	3.84
(1,2623)	1:113:A:LEU:HA	1:79:A:LEU:HD13	1	3.83
(1,2059)	1:125:A:LEU:HD12	1:127:A:VAL:HG11	9	3.83
(1,1951)	1:66:A:LEU:HD13	1:92:A:VAL:HG11	12	3.83
(1,1951)	1:66:A:LEU:HD12	1:92:A:VAL:HG12	15	3.83
(1,2623)	1:113:A:LEU:HA	1:79:A:LEU:HD13	6	3.81
(1,2059)	1:125:A:LEU:HD13	1:127:A:VAL:HG11	13	3.81
(1,1951)	1:66:A:LEU:HD12	1:92:A:VAL:HG13	1	3.81
(1,1951)	1:66:A:LEU:HD12	1:92:A:VAL:HG13	4	3.81
(1,1951)	1:66:A:LEU:HD13	1:92:A:VAL:HG13	10	3.81
(1,1951)	1:66:A:LEU:HD11	1:92:A:VAL:HG13	17	3.81
(1,1951)	1:66:A:LEU:HD12	1:92:A:VAL:HG12	18	3.81
(1,1951)	1:66:A:LEU:HD12	1:92:A:VAL:HG12	3	3.8
(1,1801)	1:127:A:VAL:HG12	1:139:A:LEU:HD21	13	3.8
(1,2623)	1:113:A:LEU:HA	1:79:A:LEU:HD12	17	3.79
(1,1951)	1:66:A:LEU:HD11	1:92:A:VAL:HG11	2	3.79
(1,1951)	1:66:A:LEU:HD13	1:92:A:VAL:HG13	14	3.78
(1,1951)	1:66:A:LEU:HD12	1:92:A:VAL:HG11	16	3.78
(1,3234)	1:125:A:LEU:HD23	1:98:A:LEU:H	5	3.76
(1,2623)	1:113:A:LEU:HA	1:79:A:LEU:HD12	7	3.76
(1,2059)	1:125:A:LEU:HD13	1:127:A:VAL:HG13	17	3.76
(1,1951)	1:66:A:LEU:HD13	1:92:A:VAL:HG12	20	3.76
(1,2059)	1:125:A:LEU:HD13	1:127:A:VAL:HG12	20	3.75
(1,1951)	1:66:A:LEU:HD11	1:92:A:VAL:HG11	5	3.75
(1,3234)	1:125:A:LEU:HD21	1:98:A:LEU:H	13	3.74
(1,1951)	1:66:A:LEU:HD13	1:92:A:VAL:HG12	9	3.74
(1,1951)	1:66:A:LEU:HD13	1:92:A:VAL:HG13	11	3.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3234)	1:125:A:LEU:HD22	1:98:A:LEU:H	14	3.73
(1,2059)	1:125:A:LEU:HD13	1:127:A:VAL:HG13	15	3.73
(1,2327)	1:4:A:LYS:HB2	1:8:A:VAL:HG13	15	3.71
(1,1951)	1:66:A:LEU:HD11	1:92:A:VAL:HG11	8	3.71
(1,3234)	1:125:A:LEU:HD23	1:98:A:LEU:H	11	3.7
(1,3234)	1:125:A:LEU:HD22	1:98:A:LEU:H	18	3.7
(1,1807)	1:127:A:VAL:HG21	1:168:A:GLN:HG3	15	3.7
(1,2059)	1:125:A:LEU:HD12	1:127:A:VAL:HG11	19	3.69
(1,3234)	1:125:A:LEU:HD23	1:98:A:LEU:H	10	3.68
(1,3234)	1:125:A:LEU:HD22	1:98:A:LEU:H	20	3.68
(1,2059)	1:125:A:LEU:HD12	1:127:A:VAL:HG12	1	3.68
(1,2606)	1:28:A:ASP:HA	1:31:A:VAL:HG21	16	3.67
(1,2059)	1:125:A:LEU:HD13	1:127:A:VAL:HG13	2	3.67
(1,2059)	1:125:A:LEU:HD11	1:127:A:VAL:HG11	7	3.67
(1,2059)	1:125:A:LEU:HD13	1:127:A:VAL:HG12	12	3.67
(1,3234)	1:125:A:LEU:HD23	1:98:A:LEU:H	3	3.65
(1,2059)	1:125:A:LEU:HD13	1:127:A:VAL:HG12	3	3.65
(1,2059)	1:125:A:LEU:HD11	1:127:A:VAL:HG11	6	3.65
(1,3234)	1:125:A:LEU:HD22	1:98:A:LEU:H	1	3.64
(1,3234)	1:125:A:LEU:HD21	1:98:A:LEU:H	9	3.64
(1,1874)	1:66:A:LEU:HD22	1:65:A:ASP:HB3	18	3.64
(1,2606)	1:28:A:ASP:HA	1:31:A:VAL:HG21	5	3.63
(1,1951)	1:66:A:LEU:HD12	1:92:A:VAL:HG13	7	3.63
(1,1801)	1:127:A:VAL:HG12	1:139:A:LEU:HD22	6	3.63
(1,3234)	1:125:A:LEU:HD23	1:98:A:LEU:H	17	3.62
(1,3460)	1:130:A:VAL:HG11	1:132:A:HIS:HE1	13	3.61
(1,2606)	1:28:A:ASP:HA	1:31:A:VAL:HG22	9	3.61
(1,2606)	1:28:A:ASP:HA	1:31:A:VAL:HG23	19	3.61
(1,3234)	1:125:A:LEU:HD23	1:98:A:LEU:H	4	3.59
(1,3234)	1:125:A:LEU:HD23	1:98:A:LEU:H	6	3.59
(1,2606)	1:28:A:ASP:HA	1:31:A:VAL:HG23	10	3.59
(1,2059)	1:125:A:LEU:HD12	1:127:A:VAL:HG13	5	3.59
(1,2059)	1:125:A:LEU:HD13	1:127:A:VAL:HG13	14	3.59
(1,1721)	1:154:A:ALA:HB3	1:137:A:LEU:HD13	8	3.59
(1,2606)	1:28:A:ASP:HA	1:31:A:VAL:HG22	3	3.58
(1,2606)	1:28:A:ASP:HA	1:31:A:VAL:HG23	18	3.58
(1,3460)	1:130:A:VAL:HG12	1:132:A:HIS:HE1	18	3.57
(1,2606)	1:28:A:ASP:HA	1:31:A:VAL:HG23	7	3.57
(1,2327)	1:4:A:LYS:HB2	1:8:A:VAL:HG13	2	3.57
(1,3234)	1:125:A:LEU:HD23	1:98:A:LEU:H	12	3.56
(1,2606)	1:28:A:ASP:HA	1:31:A:VAL:HG22	13	3.56
(1,2059)	1:125:A:LEU:HD13	1:127:A:VAL:HG13	16	3.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3234)	1:125:A:LEU:HD21	1:98:A:LEU:H	15	3.55
(1,2606)	1:28:A:ASP:HA	1:31:A:VAL:HG22	15	3.55
(1,3460)	1:130:A:VAL:HG11	1:132:A:HIS:HE1	15	3.54
(1,2606)	1:28:A:ASP:HA	1:31:A:VAL:HG23	2	3.54
(1,3234)	1:125:A:LEU:HD22	1:98:A:LEU:H	19	3.53
(1,2059)	1:125:A:LEU:HD12	1:127:A:VAL:HG12	11	3.53
(1,3234)	1:125:A:LEU:HD21	1:98:A:LEU:H	8	3.52
(1,2606)	1:28:A:ASP:HA	1:31:A:VAL:HG23	1	3.5
(1,2327)	1:4:A:LYS:HB2	1:8:A:VAL:HG13	4	3.5
(1,2606)	1:28:A:ASP:HA	1:31:A:VAL:HG23	4	3.48
(1,2606)	1:28:A:ASP:HA	1:31:A:VAL:HG23	11	3.47
(1,3460)	1:130:A:VAL:HG13	1:132:A:HIS:HE1	5	3.45
(1,3234)	1:125:A:LEU:HD22	1:98:A:LEU:H	7	3.45
(1,2727)	1:139:A:LEU:HD22	1:127:A:VAL:HA	6	3.45
(1,2606)	1:28:A:ASP:HA	1:31:A:VAL:HG21	12	3.45
(1,3255)	1:99:A:VAL:HG21	1:94:A:LEU:HB2	11	3.44
(1,2121)	1:137:A:LEU:HD13	1:160:A:ARG:HB3	8	3.44
(1,3460)	1:130:A:VAL:HG11	1:132:A:HIS:HE1	1	3.43
(1,3255)	1:99:A:VAL:HG22	1:94:A:LEU:HB2	7	3.43
(1,3255)	1:99:A:VAL:HG23	1:94:A:LEU:HB2	18	3.43
(1,2606)	1:28:A:ASP:HA	1:31:A:VAL:HG23	8	3.43
(1,2059)	1:125:A:LEU:HD11	1:127:A:VAL:HG11	18	3.43
(1,3460)	1:130:A:VAL:HG12	1:132:A:HIS:HE1	8	3.42
(1,3460)	1:130:A:VAL:HG13	1:132:A:HIS:HE1	9	3.42
(1,3234)	1:125:A:LEU:HD22	1:98:A:LEU:H	2	3.41
(1,2606)	1:28:A:ASP:HA	1:31:A:VAL:HG21	17	3.41
(1,1721)	1:154:A:ALA:HB3	1:137:A:LEU:HD11	14	3.41
(1,3255)	1:99:A:VAL:HG22	1:94:A:LEU:HB2	6	3.4
(1,3255)	1:99:A:VAL:HG23	1:94:A:LEU:HB2	20	3.4
(1,2727)	1:139:A:LEU:HD21	1:127:A:VAL:HA	13	3.4
(1,3255)	1:99:A:VAL:HG22	1:94:A:LEU:HB2	3	3.39
(1,3234)	1:125:A:LEU:HD21	1:98:A:LEU:H	16	3.39
(1,3460)	1:130:A:VAL:HG11	1:132:A:HIS:HE1	3	3.38
(1,3255)	1:99:A:VAL:HG22	1:94:A:LEU:HB2	12	3.38
(1,2059)	1:125:A:LEU:HD13	1:127:A:VAL:HG13	10	3.38
(1,1837)	1:92:A:VAL:HG21	1:66:A:LEU:HD13	17	3.38
(1,1837)	1:92:A:VAL:HG22	1:66:A:LEU:HD13	13	3.37
(1,3255)	1:99:A:VAL:HG22	1:94:A:LEU:HB2	16	3.36
(1,3223)	1:79:A:LEU:HD23	1:152:A:VAL:H	7	3.36
(1,2606)	1:28:A:ASP:HA	1:31:A:VAL:HG21	20	3.36
(1,1874)	1:66:A:LEU:HD23	1:65:A:ASP:HB3	5	3.36
(1,1837)	1:92:A:VAL:HG23	1:66:A:LEU:HD13	10	3.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1721)	1:154:A:ALA:HB2	1:137:A:LEU:HD11	6	3.36
(1,3255)	1:99:A:VAL:HG21	1:94:A:LEU:HB2	9	3.34
(1,3255)	1:99:A:VAL:HG22	1:94:A:LEU:HB2	13	3.34
(1,2606)	1:28:A:ASP:HA	1:31:A:VAL:HG21	14	3.34
(1,2059)	1:125:A:LEU:HD13	1:127:A:VAL:HG12	8	3.34
(1,1874)	1:66:A:LEU:HD22	1:65:A:ASP:HB3	1	3.34
(1,1837)	1:92:A:VAL:HG23	1:66:A:LEU:HD13	6	3.34
(1,1721)	1:154:A:ALA:HB1	1:137:A:LEU:HD12	3	3.34
(1,3460)	1:130:A:VAL:HG13	1:132:A:HIS:HE1	17	3.33
(1,1837)	1:92:A:VAL:HG21	1:66:A:LEU:HD11	2	3.33
(1,1837)	1:92:A:VAL:HG23	1:66:A:LEU:HD13	12	3.33
(1,443)	1:21:A:LYS:HE2	1:20:A:VAL:HG22	20	3.32
(1,3460)	1:130:A:VAL:HG13	1:132:A:HIS:HE1	10	3.31
(1,3460)	1:130:A:VAL:HG12	1:132:A:HIS:HE1	12	3.31
(1,3255)	1:99:A:VAL:HG21	1:94:A:LEU:HB2	4	3.31
(1,3255)	1:99:A:VAL:HG21	1:94:A:LEU:HB2	14	3.31
(1,2059)	1:125:A:LEU:HD11	1:127:A:VAL:HG11	4	3.31
(1,1837)	1:92:A:VAL:HG21	1:66:A:LEU:HD12	14	3.31
(1,1837)	1:92:A:VAL:HG23	1:66:A:LEU:HD12	16	3.31
(1,1837)	1:92:A:VAL:HG21	1:66:A:LEU:HD13	20	3.31
(1,1721)	1:154:A:ALA:HB1	1:137:A:LEU:HD11	15	3.31
(1,3460)	1:130:A:VAL:HG12	1:132:A:HIS:HE1	16	3.3
(1,3255)	1:99:A:VAL:HG22	1:94:A:LEU:HB2	2	3.3
(1,3223)	1:79:A:LEU:HD21	1:152:A:VAL:H	1	3.3
(1,3223)	1:79:A:LEU:HD23	1:152:A:VAL:H	20	3.3
(1,2606)	1:28:A:ASP:HA	1:31:A:VAL:HG21	6	3.3
(1,1721)	1:154:A:ALA:HB1	1:137:A:LEU:HD12	20	3.3
(1,3255)	1:99:A:VAL:HG23	1:94:A:LEU:HB2	10	3.29
(1,1793)	1:113:A:LEU:HD21	1:79:A:LEU:HD13	18	3.29
(1,3460)	1:130:A:VAL:HG12	1:132:A:HIS:HE1	20	3.28
(1,3255)	1:99:A:VAL:HG22	1:94:A:LEU:HB2	1	3.28
(1,1837)	1:92:A:VAL:HG22	1:66:A:LEU:HD12	4	3.28
(1,3460)	1:130:A:VAL:HG13	1:132:A:HIS:HE1	19	3.27
(1,3255)	1:99:A:VAL:HG22	1:94:A:LEU:HB2	5	3.25
(1,3223)	1:79:A:LEU:HD22	1:152:A:VAL:H	2	3.25
(1,2715)	1:4:A:LYS:HA	1:8:A:VAL:HG11	10	3.25
(1,1874)	1:66:A:LEU:HD22	1:65:A:ASP:HB3	15	3.25
(1,1837)	1:92:A:VAL:HG21	1:66:A:LEU:HD12	18	3.25
(1,3460)	1:130:A:VAL:HG11	1:132:A:HIS:HE1	11	3.24
(1,3223)	1:79:A:LEU:HD23	1:152:A:VAL:H	6	3.24
(1,3223)	1:79:A:LEU:HD22	1:152:A:VAL:H	9	3.24
(1,1837)	1:92:A:VAL:HG22	1:66:A:LEU:HD11	8	3.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1837)	1:92:A:VAL:HG22	1:66:A:LEU:HD12	9	3.24
(1,1837)	1:92:A:VAL:HG23	1:66:A:LEU:HD13	11	3.24
(1,1793)	1:113:A:LEU:HD23	1:79:A:LEU:HD11	4	3.24
(1,1793)	1:113:A:LEU:HD21	1:79:A:LEU:HD11	10	3.24
(1,1721)	1:154:A:ALA:HB3	1:137:A:LEU:HD11	16	3.24
(1,490)	1:130:A:VAL:HG23	1:135:A:LYS:HB3	17	3.24
(1,1837)	1:92:A:VAL:HG22	1:66:A:LEU:HD12	3	3.23
(1,1837)	1:92:A:VAL:HG23	1:66:A:LEU:HD12	15	3.23
(1,1793)	1:113:A:LEU:HD22	1:79:A:LEU:HD12	3	3.23
(1,3255)	1:99:A:VAL:HG22	1:94:A:LEU:HB2	17	3.22
(1,3223)	1:79:A:LEU:HD22	1:152:A:VAL:H	5	3.22
(1,2715)	1:4:A:LYS:HA	1:8:A:VAL:HG13	9	3.22
(1,1982)	1:40:A:LEU:HD13	1:92:A:VAL:HG23	1	3.22
(1,1793)	1:113:A:LEU:HD21	1:79:A:LEU:HD13	13	3.22
(1,1721)	1:154:A:ALA:HB3	1:137:A:LEU:HD12	2	3.22
(1,1721)	1:154:A:ALA:HB1	1:137:A:LEU:HD12	19	3.22
(1,3223)	1:79:A:LEU:HD21	1:152:A:VAL:H	15	3.21
(1,3223)	1:79:A:LEU:HD21	1:152:A:VAL:H	18	3.21
(1,3460)	1:130:A:VAL:HG13	1:132:A:HIS:HE1	14	3.2
(1,3223)	1:79:A:LEU:HD21	1:152:A:VAL:H	10	3.2
(1,3223)	1:79:A:LEU:HD23	1:152:A:VAL:H	11	3.2
(1,1837)	1:92:A:VAL:HG23	1:66:A:LEU:HD12	1	3.2
(1,3533)	1:130:A:VAL:HG23	1:153:A:HIS:HD2	18	3.19
(1,3223)	1:79:A:LEU:HD23	1:152:A:VAL:H	14	3.19
(1,1793)	1:113:A:LEU:HD21	1:79:A:LEU:HD11	1	3.19
(1,1721)	1:154:A:ALA:HB3	1:137:A:LEU:HD13	9	3.19
(1,3255)	1:99:A:VAL:HG21	1:94:A:LEU:HB2	8	3.18
(1,3223)	1:79:A:LEU:HD22	1:152:A:VAL:H	3	3.18
(1,3223)	1:79:A:LEU:HD22	1:152:A:VAL:H	16	3.18
(1,1721)	1:154:A:ALA:HB1	1:137:A:LEU:HD11	5	3.18
(1,3460)	1:130:A:VAL:HG11	1:132:A:HIS:HE1	6	3.17
(1,2999)	1:29:A:SER:HB3	1:21:A:LYS:HB2	8	3.17
(1,1721)	1:154:A:ALA:HB2	1:137:A:LEU:HD13	11	3.17
(1,3460)	1:130:A:VAL:HG11	1:132:A:HIS:HE1	4	3.16
(1,1837)	1:92:A:VAL:HG22	1:66:A:LEU:HD13	19	3.16
(1,1721)	1:154:A:ALA:HB1	1:137:A:LEU:HD12	4	3.16
(1,1721)	1:154:A:ALA:HB3	1:137:A:LEU:HD12	1	3.15
(1,1837)	1:92:A:VAL:HG22	1:66:A:LEU:HD11	5	3.14
(1,1793)	1:113:A:LEU:HD22	1:79:A:LEU:HD13	8	3.14
(1,3223)	1:79:A:LEU:HD22	1:152:A:VAL:H	17	3.13
(1,3223)	1:79:A:LEU:HD21	1:152:A:VAL:H	19	3.13
(1,3223)	1:79:A:LEU:HD22	1:152:A:VAL:H	13	3.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1793)	1:113:A:LEU:HD22	1:79:A:LEU:HD12	11	3.12
(1,3223)	1:79:A:LEU:HD22	1:152:A:VAL:H	4	3.11
(1,1793)	1:113:A:LEU:HD22	1:79:A:LEU:HD13	7	3.11
(1,1704)	1:92:A:VAL:HG12	1:101:A:LEU:HD22	3	3.11
(1,1704)	1:92:A:VAL:HG11	1:101:A:LEU:HD22	13	3.1
(1,3368)	1:174:A:LEU:HD21	1:122:A:LEU:HD22	7	3.09
(1,1704)	1:92:A:VAL:HG13	1:101:A:LEU:HD21	1	3.09
(1,1789)	1:125:A:LEU:HD22	1:93:A:LEU:HD12	8	3.08
(1,3460)	1:130:A:VAL:HG12	1:132:A:HIS:HE1	2	3.07
(1,3035)	1:97:A:ILE:HG12	1:99:A:VAL:HG22	1	3.07
(1,1982)	1:40:A:LEU:HD12	1:92:A:VAL:HG22	4	3.07
(1,1721)	1:154:A:ALA:HB1	1:137:A:LEU:HD11	12	3.06
(1,3368)	1:174:A:LEU:HD21	1:122:A:LEU:HD22	1	3.05
(1,1880)	1:66:A:LEU:HD22	1:61:A:PHE:HD2	8	3.05
(1,1704)	1:92:A:VAL:HG13	1:101:A:LEU:HD21	4	3.05
(1,1721)	1:154:A:ALA:HB1	1:137:A:LEU:HD11	10	3.04
(1,1704)	1:92:A:VAL:HG12	1:101:A:LEU:HD22	6	3.04
(1,1704)	1:92:A:VAL:HG13	1:101:A:LEU:HD23	10	3.04
(1,3368)	1:174:A:LEU:HD23	1:122:A:LEU:HD22	2	3.03
(1,1704)	1:92:A:VAL:HG12	1:101:A:LEU:HD22	9	3.03
(1,1704)	1:92:A:VAL:HG13	1:101:A:LEU:HD21	14	3.03
(1,1704)	1:92:A:VAL:HG12	1:101:A:LEU:HD23	18	3.03
(1,3035)	1:97:A:ILE:HG12	1:99:A:VAL:HG22	13	3.02
(1,3016)	1:151:A:GLU:HG2	1:150:A:VAL:HG11	20	3.02
(1,1793)	1:113:A:LEU:HD23	1:79:A:LEU:HD11	14	3.02
(1,1721)	1:154:A:ALA:HB1	1:137:A:LEU:HD11	7	3.02
(1,3223)	1:79:A:LEU:HD23	1:152:A:VAL:H	8	3.01
(1,1982)	1:40:A:LEU:HD12	1:92:A:VAL:HG22	8	3.01
(1,1837)	1:92:A:VAL:HG23	1:66:A:LEU:HD12	7	3.01
(1,1704)	1:92:A:VAL:HG11	1:101:A:LEU:HD21	12	3.01
(1,1704)	1:92:A:VAL:HG12	1:101:A:LEU:HD21	20	3.0
(1,3035)	1:97:A:ILE:HG12	1:99:A:VAL:HG22	7	2.99
(1,1793)	1:113:A:LEU:HD23	1:79:A:LEU:HD11	9	2.99
(1,1793)	1:113:A:LEU:HD23	1:79:A:LEU:HD12	19	2.99
(1,1704)	1:92:A:VAL:HG12	1:101:A:LEU:HD23	15	2.99
(1,443)	1:21:A:LYS:HE2	1:20:A:VAL:HG21	4	2.99
(1,3035)	1:97:A:ILE:HG12	1:99:A:VAL:HG22	15	2.98
(1,2999)	1:29:A:SER:HB3	1:21:A:LYS:HB2	18	2.98
(1,1721)	1:154:A:ALA:HB1	1:137:A:LEU:HD12	17	2.98
(1,3035)	1:97:A:ILE:HG12	1:99:A:VAL:HG21	4	2.97
(1,3035)	1:97:A:ILE:HG12	1:99:A:VAL:HG22	17	2.97
(1,3035)	1:97:A:ILE:HG12	1:99:A:VAL:HG22	19	2.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3035)	1:97:A:ILE:HG12	1:99:A:VAL:HG22	3	2.95
(1,3035)	1:97:A:ILE:HG12	1:99:A:VAL:HG22	6	2.95
(1,1982)	1:40:A:LEU:HD12	1:92:A:VAL:HG21	2	2.95
(1,1982)	1:40:A:LEU:HD13	1:92:A:VAL:HG22	13	2.95
(1,1982)	1:40:A:LEU:HD13	1:92:A:VAL:HG21	17	2.95
(1,2999)	1:29:A:SER:HB3	1:21:A:LYS:HB2	17	2.94
(1,2460)	1:96:A:ASP:HB3	1:94:A:LEU:HB2	19	2.94
(1,1982)	1:40:A:LEU:HD11	1:92:A:VAL:HG23	7	2.94
(1,1793)	1:113:A:LEU:HD22	1:79:A:LEU:HD11	16	2.94
(1,1704)	1:92:A:VAL:HG11	1:101:A:LEU:HD21	16	2.94
(1,1982)	1:40:A:LEU:HD12	1:92:A:VAL:HG23	16	2.93
(1,1704)	1:92:A:VAL:HG11	1:101:A:LEU:HD22	2	2.93
(1,1704)	1:92:A:VAL:HG11	1:101:A:LEU:HD22	8	2.93
(1,1704)	1:92:A:VAL:HG13	1:101:A:LEU:HD21	17	2.93
(1,3035)	1:97:A:ILE:HG12	1:99:A:VAL:HG22	2	2.92
(1,2737)	1:134:A:GLU:HA	1:157:A:LYS:HG3	14	2.92
(1,1982)	1:40:A:LEU:HD12	1:92:A:VAL:HG22	9	2.92
(1,1982)	1:40:A:LEU:HD12	1:92:A:VAL:HG21	14	2.92
(1,3368)	1:174:A:LEU:HD22	1:122:A:LEU:HD22	5	2.91
(1,3035)	1:97:A:ILE:HG12	1:99:A:VAL:HG23	18	2.91
(1,2327)	1:4:A:LYS:HB2	1:8:A:VAL:HG12	9	2.91
(1,3035)	1:97:A:ILE:HG12	1:99:A:VAL:HG21	9	2.9
(1,2460)	1:96:A:ASP:HB3	1:94:A:LEU:HB2	15	2.9
(1,1982)	1:40:A:LEU:HD11	1:92:A:VAL:HG23	15	2.9
(1,1793)	1:113:A:LEU:HD23	1:79:A:LEU:HD13	17	2.9
(1,1789)	1:125:A:LEU:HD23	1:93:A:LEU:HD11	5	2.9
(1,1704)	1:92:A:VAL:HG11	1:101:A:LEU:HD23	19	2.9
(1,1982)	1:40:A:LEU:HD13	1:92:A:VAL:HG22	3	2.89
(1,1721)	1:154:A:ALA:HB1	1:137:A:LEU:HD12	13	2.89
(1,3035)	1:97:A:ILE:HG12	1:99:A:VAL:HG22	5	2.88
(1,3035)	1:97:A:ILE:HG12	1:99:A:VAL:HG21	8	2.88
(1,2999)	1:29:A:SER:HB3	1:21:A:LYS:HB2	15	2.88
(1,1982)	1:40:A:LEU:HD12	1:92:A:VAL:HG21	18	2.88
(1,1704)	1:92:A:VAL:HG13	1:101:A:LEU:HD21	11	2.88
(1,1982)	1:40:A:LEU:HD11	1:92:A:VAL:HG23	6	2.87
(1,1982)	1:40:A:LEU:HD12	1:92:A:VAL:HG23	10	2.87
(1,3460)	1:130:A:VAL:HG11	1:132:A:HIS:HE1	7	2.86
(1,3035)	1:97:A:ILE:HG12	1:99:A:VAL:HG21	11	2.86
(1,2999)	1:29:A:SER:HB3	1:21:A:LYS:HB2	13	2.86
(1,2121)	1:137:A:LEU:HD11	1:160:A:ARG:HB3	12	2.86
(1,1982)	1:40:A:LEU:HD12	1:92:A:VAL:HG22	5	2.86
(1,1800)	1:127:A:VAL:HG11	1:125:A:LEU:HG	9	2.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3368)	1:174:A:LEU:HD22	1:122:A:LEU:HD23	6	2.85
(1,3368)	1:174:A:LEU:HD21	1:122:A:LEU:HD22	19	2.85
(1,2999)	1:29:A:SER:HB3	1:21:A:LYS:HB2	1	2.85
(1,2133)	1:68:A:ARG:HG2	1:67:A:LYS:HD2	7	2.85
(1,1982)	1:40:A:LEU:HD12	1:92:A:VAL:HG23	11	2.85
(1,1982)	1:40:A:LEU:HD13	1:92:A:VAL:HG22	19	2.85
(1,1800)	1:127:A:VAL:HG11	1:125:A:LEU:HG	13	2.85
(1,1800)	1:127:A:VAL:HG13	1:125:A:LEU:HG	17	2.85
(1,1793)	1:113:A:LEU:HD22	1:79:A:LEU:HD12	2	2.85
(1,105)	1:120:A:ILE:HG22	1:125:A:LEU:HD21	17	2.85
(1,3035)	1:97:A:ILE:HG12	1:99:A:VAL:HG23	20	2.84
(1,3035)	1:97:A:ILE:HG12	1:99:A:VAL:HG21	14	2.83
(1,3035)	1:97:A:ILE:HG12	1:99:A:VAL:HG22	16	2.83
(1,2262)	1:149:A:MET:HB2	1:147:A:PRO:HB3	2	2.83
(1,1793)	1:113:A:LEU:HD23	1:79:A:LEU:HD11	5	2.83
(1,1704)	1:92:A:VAL:HG11	1:101:A:LEU:HD22	5	2.83
(1,105)	1:120:A:ILE:HG21	1:125:A:LEU:HD23	2	2.83
(1,105)	1:120:A:ILE:HG21	1:125:A:LEU:HD22	9	2.83
(1,2999)	1:29:A:SER:HB3	1:21:A:LYS:HB2	7	2.82
(1,1982)	1:40:A:LEU:HD11	1:92:A:VAL:HG21	20	2.82
(1,1800)	1:127:A:VAL:HG11	1:125:A:LEU:HG	6	2.82
(1,1793)	1:113:A:LEU:HD23	1:79:A:LEU:HD13	20	2.82
(1,1721)	1:154:A:ALA:HB2	1:137:A:LEU:HD13	18	2.82
(1,2461)	1:96:A:ASP:HB2	1:185:A:GLU:HB3	2	2.81
(1,3035)	1:97:A:ILE:HG12	1:99:A:VAL:HG22	12	2.8
(1,2999)	1:29:A:SER:HB3	1:21:A:LYS:HB2	9	2.8
(1,1982)	1:40:A:LEU:HD12	1:92:A:VAL:HG23	12	2.8
(1,1800)	1:127:A:VAL:HG12	1:125:A:LEU:HG	1	2.8
(1,1793)	1:113:A:LEU:HD22	1:79:A:LEU:HD11	6	2.8
(1,2133)	1:68:A:ARG:HG2	1:67:A:LYS:HD2	4	2.79
(1,1800)	1:127:A:VAL:HG11	1:125:A:LEU:HG	7	2.79
(1,1800)	1:127:A:VAL:HG13	1:125:A:LEU:HG	15	2.79
(1,1800)	1:127:A:VAL:HG12	1:125:A:LEU:HG	20	2.79
(1,2251)	1:11:A:GLU:HB2	1:19:A:LEU:HD11	19	2.78
(1,2121)	1:137:A:LEU:HD13	1:160:A:ARG:HB3	9	2.78
(1,1800)	1:127:A:VAL:HG13	1:125:A:LEU:HG	2	2.78
(1,1793)	1:113:A:LEU:HD21	1:79:A:LEU:HD11	15	2.78
(1,3368)	1:174:A:LEU:HD22	1:122:A:LEU:HD23	15	2.77
(1,2251)	1:11:A:GLU:HB2	1:19:A:LEU:HD11	3	2.77
(1,1800)	1:127:A:VAL:HG12	1:125:A:LEU:HG	12	2.77
(1,3035)	1:97:A:ILE:HG12	1:99:A:VAL:HG23	10	2.76
(1,2262)	1:149:A:MET:HB2	1:147:A:PRO:HB3	11	2.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2133)	1:68:A:ARG:HG2	1:67:A:LYS:HD2	20	2.76
(1,2262)	1:149:A:MET:HB2	1:147:A:PRO:HB3	18	2.75
(1,2121)	1:137:A:LEU:HD11	1:160:A:ARG:HB3	15	2.75
(1,1800)	1:127:A:VAL:HG12	1:125:A:LEU:HG	3	2.75
(1,1800)	1:127:A:VAL:HG11	1:125:A:LEU:HG	19	2.75
(1,1800)	1:127:A:VAL:HG13	1:125:A:LEU:HG	16	2.74
(1,2389)	1:151:A:GLU:HG3	1:150:A:VAL:HG13	5	2.73
(1,2262)	1:149:A:MET:HB2	1:147:A:PRO:HB3	12	2.73
(1,2251)	1:11:A:GLU:HB2	1:19:A:LEU:HD12	12	2.73
(1,2121)	1:137:A:LEU:HD13	1:160:A:ARG:HB3	11	2.73
(1,1800)	1:127:A:VAL:HG13	1:125:A:LEU:HG	5	2.73
(1,1789)	1:125:A:LEU:HD22	1:93:A:LEU:HD13	1	2.73
(1,2121)	1:137:A:LEU:HD12	1:160:A:ARG:HB3	13	2.72
(1,1800)	1:127:A:VAL:HG13	1:125:A:LEU:HG	14	2.72
(1,1789)	1:125:A:LEU:HD23	1:93:A:LEU:HD12	10	2.72
(1,1545)	1:120:A:ILE:HD13	1:150:A:VAL:HG23	1	2.72
(1,2461)	1:96:A:ASP:HB2	1:185:A:GLU:HB3	14	2.71
(1,2262)	1:149:A:MET:HB2	1:147:A:PRO:HB3	6	2.71
(1,2262)	1:149:A:MET:HB2	1:147:A:PRO:HB3	9	2.71
(1,1704)	1:92:A:VAL:HG13	1:101:A:LEU:HD23	7	2.71
(1,2999)	1:29:A:SER:HB3	1:21:A:LYS:HB2	4	2.7
(1,2262)	1:149:A:MET:HB2	1:147:A:PRO:HB3	10	2.7
(1,2262)	1:149:A:MET:HB2	1:147:A:PRO:HB3	19	2.7
(1,1789)	1:125:A:LEU:HD21	1:93:A:LEU:HD12	13	2.7
(1,1789)	1:125:A:LEU:HD22	1:93:A:LEU:HD11	20	2.7
(1,1545)	1:120:A:ILE:HD12	1:150:A:VAL:HG23	3	2.7
(1,3368)	1:174:A:LEU:HD22	1:122:A:LEU:HD21	16	2.69
(1,2389)	1:151:A:GLU:HG3	1:150:A:VAL:HG12	3	2.69
(1,2262)	1:149:A:MET:HB2	1:147:A:PRO:HB3	4	2.69
(1,2121)	1:137:A:LEU:HD12	1:160:A:ARG:HB3	17	2.69
(1,2121)	1:137:A:LEU:HD12	1:160:A:ARG:HB3	19	2.69
(1,1800)	1:127:A:VAL:HG12	1:125:A:LEU:HG	11	2.69
(1,1789)	1:125:A:LEU:HD23	1:93:A:LEU:HD13	18	2.69
(1,114)	1:72:A:VAL:HG13	1:70:A:LYS:HB2	20	2.69
(1,105)	1:120:A:ILE:HG22	1:125:A:LEU:HD22	10	2.69
(1,2121)	1:137:A:LEU:HD12	1:160:A:ARG:HB3	2	2.68
(1,3368)	1:174:A:LEU:HD22	1:122:A:LEU:HD23	20	2.67
(1,1789)	1:125:A:LEU:HD21	1:93:A:LEU:HD11	4	2.67
(1,1789)	1:125:A:LEU:HD21	1:93:A:LEU:HD13	16	2.67
(1,1545)	1:120:A:ILE:HD12	1:150:A:VAL:HG21	5	2.67
(1,2999)	1:29:A:SER:HB3	1:21:A:LYS:HB2	11	2.66
(1,2461)	1:96:A:ASP:HB2	1:185:A:GLU:HB3	8	2.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2262)	1:149:A:MET:HB2	1:147:A:PRO:HB3	3	2.66
(1,1789)	1:125:A:LEU:HD23	1:93:A:LEU:HD11	12	2.66
(1,3368)	1:174:A:LEU:HD21	1:122:A:LEU:HD22	17	2.65
(1,2737)	1:134:A:GLU:HA	1:157:A:LYS:HG3	1	2.65
(1,2389)	1:151:A:GLU:HG3	1:150:A:VAL:HG12	1	2.65
(1,2389)	1:151:A:GLU:HG3	1:150:A:VAL:HG11	15	2.65
(1,2262)	1:149:A:MET:HB2	1:147:A:PRO:HB3	17	2.65
(1,2121)	1:137:A:LEU:HD11	1:160:A:ARG:HB3	14	2.65
(1,1874)	1:66:A:LEU:HD21	1:65:A:ASP:HB3	20	2.65
(1,416)	1:18:A:SER:HA	1:19:A:LEU:HD12	19	2.65
(1,2262)	1:149:A:MET:HB2	1:147:A:PRO:HB3	7	2.64
(1,2121)	1:137:A:LEU:HD12	1:160:A:ARG:HB3	20	2.64
(1,1874)	1:66:A:LEU:HD21	1:65:A:ASP:HB3	11	2.64
(1,1800)	1:127:A:VAL:HG11	1:125:A:LEU:HG	18	2.64
(1,1789)	1:125:A:LEU:HD21	1:93:A:LEU:HD13	9	2.64
(1,1789)	1:125:A:LEU:HD22	1:93:A:LEU:HD11	19	2.64
(1,1545)	1:120:A:ILE:HD12	1:150:A:VAL:HG23	9	2.64
(1,3368)	1:174:A:LEU:HD23	1:122:A:LEU:HD22	12	2.63
(1,2999)	1:29:A:SER:HB3	1:21:A:LYS:HB2	6	2.63
(1,2999)	1:29:A:SER:HB3	1:21:A:LYS:HB2	14	2.63
(1,2262)	1:149:A:MET:HB2	1:147:A:PRO:HB3	13	2.63
(1,2121)	1:137:A:LEU:HD12	1:160:A:ARG:HB3	4	2.63
(1,1800)	1:127:A:VAL:HG13	1:125:A:LEU:HG	10	2.63
(1,3168)	1:31:A:VAL:HG11	1:34:A:TYR:HE2	1	2.62
(1,2715)	1:4:A:LYS:HA	1:8:A:VAL:HG13	2	2.62
(1,105)	1:120:A:ILE:HG21	1:125:A:LEU:HD22	3	2.62
(1,2121)	1:137:A:LEU:HD12	1:160:A:ARG:HB3	3	2.61
(1,1800)	1:127:A:VAL:HG11	1:125:A:LEU:HG	4	2.61
(1,3225)	1:79:A:LEU:HD22	1:153:A:HIS:H	20	2.6
(1,2999)	1:29:A:SER:HB3	1:21:A:LYS:HB2	5	2.6
(1,2999)	1:29:A:SER:HB3	1:21:A:LYS:HB2	20	2.6
(1,1789)	1:125:A:LEU:HD22	1:93:A:LEU:HD12	7	2.6
(1,1789)	1:125:A:LEU:HD23	1:93:A:LEU:HD12	11	2.6
(1,1789)	1:125:A:LEU:HD23	1:93:A:LEU:HD11	17	2.6
(1,2262)	1:149:A:MET:HB2	1:147:A:PRO:HB3	14	2.59
(1,2121)	1:137:A:LEU:HD11	1:160:A:ARG:HB3	6	2.59
(1,1789)	1:125:A:LEU:HD22	1:93:A:LEU:HD12	2	2.59
(1,3168)	1:31:A:VAL:HG11	1:34:A:TYR:HE1	15	2.58
(1,2461)	1:96:A:ASP:HB2	1:185:A:GLU:HB3	13	2.58
(1,2327)	1:4:A:LYS:HB2	1:8:A:VAL:HG11	10	2.58
(1,2121)	1:137:A:LEU:HD11	1:160:A:ARG:HB3	16	2.58
(1,1978)	1:71:A:LEU:HD23	1:92:A:VAL:HG22	19	2.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1874)	1:66:A:LEU:HD23	1:65:A:ASP:HB3	3	2.58
(1,1729)	1:31:A:VAL:HG11	1:35:A:GLU:HG2	9	2.58
(1,105)	1:120:A:ILE:HG22	1:125:A:LEU:HD21	6	2.58
(1,2999)	1:29:A:SER:HB3	1:21:A:LYS:HB2	19	2.57
(1,2262)	1:149:A:MET:HB2	1:147:A:PRO:HB3	16	2.57
(1,2262)	1:149:A:MET:HB2	1:147:A:PRO:HB3	20	2.57
(1,1874)	1:66:A:LEU:HD21	1:65:A:ASP:HB3	13	2.57
(1,1789)	1:125:A:LEU:HD22	1:93:A:LEU:HD13	14	2.57
(1,1729)	1:31:A:VAL:HG13	1:35:A:GLU:HG2	10	2.57
(1,3168)	1:31:A:VAL:HG11	1:34:A:TYR:HE2	2	2.56
(1,1874)	1:66:A:LEU:HD22	1:65:A:ASP:HB3	12	2.56
(1,1874)	1:66:A:LEU:HD22	1:65:A:ASP:HB3	17	2.56
(1,1800)	1:127:A:VAL:HG12	1:125:A:LEU:HG	8	2.56
(1,1729)	1:31:A:VAL:HG11	1:35:A:GLU:HG2	7	2.56
(1,3168)	1:31:A:VAL:HG11	1:34:A:TYR:HE1	16	2.55
(1,2461)	1:96:A:ASP:HB2	1:185:A:GLU:HB3	10	2.54
(1,2262)	1:149:A:MET:HB2	1:147:A:PRO:HB3	5	2.54
(1,2251)	1:11:A:GLU:HB2	1:19:A:LEU:HD12	17	2.54
(1,1874)	1:66:A:LEU:HD22	1:65:A:ASP:HB3	2	2.54
(1,1874)	1:66:A:LEU:HD23	1:65:A:ASP:HB3	16	2.54
(1,1789)	1:125:A:LEU:HD23	1:93:A:LEU:HD11	3	2.54
(1,416)	1:18:A:SER:HA	1:19:A:LEU:HD13	12	2.54
(1,105)	1:120:A:ILE:HG21	1:125:A:LEU:HD23	15	2.54
(1,3225)	1:79:A:LEU:HD22	1:153:A:HIS:H	7	2.53
(1,2262)	1:149:A:MET:HB2	1:147:A:PRO:HB3	15	2.53
(1,1874)	1:66:A:LEU:HD22	1:65:A:ASP:HB3	10	2.53
(1,1545)	1:120:A:ILE:HD13	1:150:A:VAL:HG22	10	2.53
(1,1545)	1:120:A:ILE:HD12	1:150:A:VAL:HG21	15	2.53
(1,105)	1:120:A:ILE:HG21	1:125:A:LEU:HD22	13	2.53
(1,3168)	1:31:A:VAL:HG11	1:34:A:TYR:HE1	5	2.52
(1,3168)	1:31:A:VAL:HG11	1:34:A:TYR:HE1	11	2.52
(1,2121)	1:137:A:LEU:HD11	1:160:A:ARG:HB3	10	2.52
(1,1978)	1:71:A:LEU:HD21	1:92:A:VAL:HG22	9	2.52
(1,1729)	1:31:A:VAL:HG11	1:35:A:GLU:HG2	5	2.52
(1,1545)	1:120:A:ILE:HD12	1:150:A:VAL:HG23	20	2.52
(1,3168)	1:31:A:VAL:HG13	1:34:A:TYR:HE1	4	2.51
(1,2121)	1:137:A:LEU:HD12	1:160:A:ARG:HB3	1	2.51
(1,2121)	1:137:A:LEU:HD11	1:160:A:ARG:HB3	5	2.51
(1,1874)	1:66:A:LEU:HD23	1:65:A:ASP:HB3	6	2.51
(1,1874)	1:66:A:LEU:HD22	1:65:A:ASP:HB3	8	2.51
(1,1874)	1:66:A:LEU:HD22	1:65:A:ASP:HB3	9	2.51
(1,1874)	1:66:A:LEU:HD21	1:65:A:ASP:HB3	19	2.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1789)	1:125:A:LEU:HD21	1:93:A:LEU:HD11	15	2.51
(1,1545)	1:120:A:ILE:HD11	1:150:A:VAL:HG23	16	2.51
(1,3167)	1:34:A:TYR:HB2	1:31:A:VAL:HG12	14	2.5
(1,2389)	1:151:A:GLU:HG3	1:150:A:VAL:HG12	9	2.5
(1,1729)	1:31:A:VAL:HG11	1:35:A:GLU:HG2	3	2.5
(1,105)	1:120:A:ILE:HG22	1:125:A:LEU:HD21	7	2.5
(1,3168)	1:31:A:VAL:HG13	1:34:A:TYR:HE2	19	2.49
(1,3168)	1:31:A:VAL:HG13	1:34:A:TYR:HE1	20	2.49
(1,3167)	1:34:A:TYR:HB2	1:31:A:VAL:HG11	7	2.49
(1,3167)	1:34:A:TYR:HB2	1:31:A:VAL:HG12	8	2.49
(1,2389)	1:151:A:GLU:HG3	1:150:A:VAL:HG12	6	2.49
(1,1978)	1:71:A:LEU:HD22	1:92:A:VAL:HG21	4	2.49
(1,1729)	1:31:A:VAL:HG11	1:35:A:GLU:HG2	16	2.49
(1,1545)	1:120:A:ILE:HD13	1:150:A:VAL:HG22	14	2.48
(1,3255)	1:99:A:VAL:HG22	1:94:A:LEU:HB2	19	2.47
(1,1874)	1:66:A:LEU:HD21	1:65:A:ASP:HB3	4	2.47
(1,1789)	1:125:A:LEU:HD23	1:93:A:LEU:HD13	6	2.47
(1,1729)	1:31:A:VAL:HG12	1:35:A:GLU:HG2	8	2.47
(1,1729)	1:31:A:VAL:HG11	1:35:A:GLU:HG2	15	2.47
(1,1729)	1:31:A:VAL:HG13	1:35:A:GLU:HG2	18	2.47
(1,1545)	1:120:A:ILE:HD11	1:150:A:VAL:HG23	2	2.47
(1,105)	1:120:A:ILE:HG21	1:125:A:LEU:HD22	5	2.47
(1,105)	1:120:A:ILE:HG23	1:125:A:LEU:HD21	14	2.47
(1,3168)	1:31:A:VAL:HG11	1:34:A:TYR:HE2	9	2.46
(1,3168)	1:31:A:VAL:HG13	1:34:A:TYR:HE1	18	2.46
(1,3167)	1:34:A:TYR:HB2	1:31:A:VAL:HG13	19	2.46
(1,2262)	1:149:A:MET:HB2	1:147:A:PRO:HB3	8	2.46
(1,1874)	1:66:A:LEU:HD22	1:65:A:ASP:HB3	7	2.46
(1,1874)	1:66:A:LEU:HD22	1:65:A:ASP:HB3	14	2.46
(1,2461)	1:96:A:ASP:HB2	1:185:A:GLU:HB3	12	2.45
(1,2251)	1:11:A:GLU:HB2	1:19:A:LEU:HD13	9	2.45
(1,3168)	1:31:A:VAL:HG11	1:34:A:TYR:HE1	13	2.44
(1,1729)	1:31:A:VAL:HG13	1:35:A:GLU:HG2	4	2.44
(1,1729)	1:31:A:VAL:HG11	1:35:A:GLU:HG2	12	2.44
(1,1545)	1:120:A:ILE:HD11	1:150:A:VAL:HG23	6	2.44
(1,105)	1:120:A:ILE:HG21	1:125:A:LEU:HD21	1	2.44
(1,105)	1:120:A:ILE:HG22	1:125:A:LEU:HD22	11	2.44
(1,2121)	1:137:A:LEU:HD11	1:160:A:ARG:HB3	7	2.43
(1,1729)	1:31:A:VAL:HG13	1:35:A:GLU:HG2	19	2.43
(1,1545)	1:120:A:ILE:HD12	1:150:A:VAL:HG21	7	2.43
(1,3225)	1:79:A:LEU:HD23	1:153:A:HIS:H	1	2.42
(1,3167)	1:34:A:TYR:HB2	1:31:A:VAL:HG11	3	2.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2461)	1:96:A:ASP:HB2	1:185:A:GLU:HB3	1	2.42
(1,2461)	1:96:A:ASP:HB2	1:185:A:GLU:HB3	7	2.42
(1,1978)	1:71:A:LEU:HD23	1:92:A:VAL:HG23	12	2.42
(1,1545)	1:120:A:ILE:HD13	1:150:A:VAL:HG23	4	2.42
(1,1545)	1:120:A:ILE:HD12	1:150:A:VAL:HG21	18	2.42
(1,105)	1:120:A:ILE:HG21	1:125:A:LEU:HD23	8	2.42
(1,3168)	1:31:A:VAL:HG13	1:34:A:TYR:HE1	10	2.41
(1,3167)	1:34:A:TYR:HB2	1:31:A:VAL:HG11	2	2.41
(1,3167)	1:34:A:TYR:HB2	1:31:A:VAL:HG13	18	2.41
(1,2031)	1:124:A:LYS:HG3	1:123:A:LYS:HD3	13	2.41
(1,1978)	1:71:A:LEU:HD23	1:92:A:VAL:HG23	2	2.41
(1,1953)	1:66:A:LEU:HD13	1:40:A:LEU:HD23	1	2.41
(1,1729)	1:31:A:VAL:HG13	1:35:A:GLU:HG2	20	2.41
(1,105)	1:120:A:ILE:HG23	1:125:A:LEU:HD22	18	2.41
(1,3167)	1:34:A:TYR:HB2	1:31:A:VAL:HG11	9	2.4
(1,3167)	1:34:A:TYR:HB2	1:31:A:VAL:HG11	13	2.4
(1,3167)	1:34:A:TYR:HB2	1:31:A:VAL:HG11	17	2.4
(1,1978)	1:71:A:LEU:HD21	1:92:A:VAL:HG22	13	2.4
(1,1765)	1:99:A:VAL:HG11	1:110:A:PHE:HD1	8	2.4
(1,1545)	1:120:A:ILE:HD13	1:150:A:VAL:HG22	8	2.4
(1,3255)	1:99:A:VAL:HG22	1:94:A:LEU:HB2	15	2.39
(1,3168)	1:31:A:VAL:HG11	1:34:A:TYR:HE1	3	2.39
(1,3167)	1:34:A:TYR:HB2	1:31:A:VAL:HG13	10	2.39
(1,1978)	1:71:A:LEU:HD21	1:92:A:VAL:HG22	16	2.39
(1,1729)	1:31:A:VAL:HG11	1:35:A:GLU:HG2	1	2.39
(1,1729)	1:31:A:VAL:HG12	1:35:A:GLU:HG2	6	2.39
(1,105)	1:120:A:ILE:HG21	1:125:A:LEU:HD22	16	2.39
(1,3225)	1:79:A:LEU:HD23	1:153:A:HIS:H	10	2.38
(1,3225)	1:79:A:LEU:HD22	1:153:A:HIS:H	11	2.38
(1,3167)	1:34:A:TYR:HB2	1:31:A:VAL:HG12	6	2.38
(1,3024)	1:35:A:GLU:HA	1:31:A:VAL:HG11	9	2.38
(1,2251)	1:11:A:GLU:HB2	1:19:A:LEU:HD12	15	2.38
(1,2031)	1:124:A:LYS:HG3	1:123:A:LYS:HD3	18	2.38
(1,1978)	1:71:A:LEU:HD23	1:92:A:VAL:HG22	3	2.38
(1,1807)	1:127:A:VAL:HG22	1:168:A:GLN:HG3	7	2.38
(1,1545)	1:120:A:ILE:HD12	1:150:A:VAL:HG22	17	2.38
(1,1545)	1:120:A:ILE:HD13	1:150:A:VAL:HG23	19	2.38
(1,3168)	1:31:A:VAL:HG11	1:34:A:TYR:HE1	12	2.37
(1,3168)	1:31:A:VAL:HG11	1:34:A:TYR:HE1	17	2.37
(1,2462)	1:87:A:LYS:HE3	1:79:A:LEU:HD13	17	2.37
(1,2031)	1:124:A:LYS:HG3	1:123:A:LYS:HD3	9	2.37
(1,1978)	1:71:A:LEU:HD22	1:92:A:VAL:HG22	5	2.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1978)	1:71:A:LEU:HD21	1:92:A:VAL:HG23	6	2.37
(1,1978)	1:71:A:LEU:HD22	1:92:A:VAL:HG22	10	2.37
(1,105)	1:120:A:ILE:HG22	1:125:A:LEU:HD22	4	2.37
(1,3167)	1:34:A:TYR:HB2	1:31:A:VAL:HG13	4	2.36
(1,3167)	1:34:A:TYR:HB2	1:31:A:VAL:HG11	5	2.36
(1,3167)	1:34:A:TYR:HB2	1:31:A:VAL:HG11	11	2.36
(1,3167)	1:34:A:TYR:HB2	1:31:A:VAL:HG11	16	2.36
(1,2715)	1:4:A:LYS:HA	1:8:A:VAL:HG12	4	2.36
(1,2251)	1:11:A:GLU:HB2	1:19:A:LEU:HD13	2	2.36
(1,2251)	1:11:A:GLU:HB2	1:19:A:LEU:HD13	10	2.36
(1,2031)	1:124:A:LYS:HG3	1:123:A:LYS:HD3	12	2.36
(1,3168)	1:31:A:VAL:HG12	1:34:A:TYR:HE1	6	2.35
(1,3168)	1:31:A:VAL:HG11	1:34:A:TYR:HE1	7	2.35
(1,2251)	1:11:A:GLU:HB2	1:19:A:LEU:HD11	16	2.35
(1,2031)	1:124:A:LYS:HG3	1:123:A:LYS:HD3	20	2.35
(1,1807)	1:127:A:VAL:HG22	1:168:A:GLN:HG3	10	2.35
(1,3167)	1:34:A:TYR:HB2	1:31:A:VAL:HG11	1	2.34
(1,3167)	1:34:A:TYR:HB2	1:31:A:VAL:HG11	12	2.34
(1,3167)	1:34:A:TYR:HB2	1:31:A:VAL:HG11	15	2.34
(1,3167)	1:34:A:TYR:HB2	1:31:A:VAL:HG13	20	2.34
(1,3024)	1:35:A:GLU:HA	1:31:A:VAL:HG13	10	2.34
(1,2251)	1:11:A:GLU:HB2	1:19:A:LEU:HD13	8	2.34
(1,2031)	1:124:A:LYS:HG3	1:123:A:LYS:HD3	8	2.34
(1,1729)	1:31:A:VAL:HG12	1:35:A:GLU:HG2	14	2.34
(1,1545)	1:120:A:ILE:HD12	1:150:A:VAL:HG21	11	2.34
(1,219)	1:42:A:GLU:HB3	1:39:A:ARG:HB3	16	2.34
(1,105)	1:120:A:ILE:HG23	1:125:A:LEU:HD21	12	2.34
(1,105)	1:120:A:ILE:HG21	1:125:A:LEU:HD21	20	2.34
(1,3024)	1:35:A:GLU:HA	1:31:A:VAL:HG11	3	2.33
(1,3024)	1:35:A:GLU:HA	1:31:A:VAL:HG11	5	2.33
(1,3024)	1:35:A:GLU:HA	1:31:A:VAL:HG11	7	2.33
(1,3024)	1:35:A:GLU:HA	1:31:A:VAL:HG11	16	2.33
(1,2031)	1:124:A:LYS:HG3	1:123:A:LYS:HD3	3	2.33
(1,1978)	1:71:A:LEU:HD22	1:92:A:VAL:HG23	18	2.33
(1,1807)	1:127:A:VAL:HG22	1:168:A:GLN:HG3	11	2.33
(1,219)	1:42:A:GLU:HB3	1:39:A:ARG:HB3	11	2.33
(1,3225)	1:79:A:LEU:HD21	1:153:A:HIS:H	2	2.32
(1,2461)	1:96:A:ASP:HB2	1:185:A:GLU:HB3	18	2.32
(1,1978)	1:71:A:LEU:HD21	1:92:A:VAL:HG23	1	2.32
(1,1927)	1:19:A:LEU:HD12	1:11:A:GLU:HA	12	2.32
(1,1545)	1:120:A:ILE:HD12	1:150:A:VAL:HG23	13	2.32
(1,219)	1:42:A:GLU:HB3	1:39:A:ARG:HB3	7	2.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,219)	1:42:A:GLU:HB3	1:39:A:ARG:HB3	8	2.32
(1,3166)	1:152:A:VAL:HG11	1:79:A:LEU:HD23	11	2.31
(1,2999)	1:29:A:SER:HB3	1:21:A:LYS:HB2	12	2.31
(1,2462)	1:87:A:LYS:HE3	1:79:A:LEU:HD11	15	2.31
(1,2031)	1:124:A:LYS:HG3	1:123:A:LYS:HD3	19	2.31
(1,1807)	1:127:A:VAL:HG23	1:168:A:GLN:HG3	19	2.31
(1,3225)	1:79:A:LEU:HD21	1:153:A:HIS:H	5	2.3
(1,3024)	1:35:A:GLU:HA	1:31:A:VAL:HG13	18	2.3
(1,2462)	1:87:A:LYS:HE3	1:79:A:LEU:HD13	18	2.3
(1,1978)	1:71:A:LEU:HD21	1:92:A:VAL:HG22	7	2.3
(1,1978)	1:71:A:LEU:HD22	1:92:A:VAL:HG23	15	2.3
(1,219)	1:42:A:GLU:HB3	1:39:A:ARG:HB3	18	2.3
(1,105)	1:120:A:ILE:HG23	1:125:A:LEU:HD21	19	2.3
(1,2923)	1:127:A:VAL:HG23	1:164:A:ILE:HB	12	2.29
(1,2462)	1:87:A:LYS:HE3	1:79:A:LEU:HD11	4	2.29
(1,2389)	1:151:A:GLU:HG3	1:150:A:VAL:HG12	2	2.29
(1,2262)	1:149:A:MET:HB2	1:147:A:PRO:HB3	1	2.29
(1,2031)	1:124:A:LYS:HG3	1:123:A:LYS:HD3	7	2.29
(1,2031)	1:124:A:LYS:HG3	1:123:A:LYS:HD3	16	2.29
(1,1978)	1:71:A:LEU:HD21	1:92:A:VAL:HG23	17	2.29
(1,1880)	1:66:A:LEU:HD21	1:61:A:PHE:HD1	7	2.29
(1,3225)	1:79:A:LEU:HD21	1:153:A:HIS:H	16	2.28
(1,3024)	1:35:A:GLU:HA	1:31:A:VAL:HG12	8	2.28
(1,3024)	1:35:A:GLU:HA	1:31:A:VAL:HG13	19	2.28
(1,2461)	1:96:A:ASP:HB2	1:185:A:GLU:HB3	11	2.28
(1,2389)	1:151:A:GLU:HG3	1:150:A:VAL:HG11	10	2.28
(1,2251)	1:11:A:GLU:HB2	1:19:A:LEU:HD12	13	2.28
(1,1765)	1:99:A:VAL:HG12	1:110:A:PHE:HD1	15	2.28
(1,416)	1:18:A:SER:HA	1:19:A:LEU:HD11	9	2.28
(1,3225)	1:79:A:LEU:HD23	1:153:A:HIS:H	18	2.27
(1,3024)	1:35:A:GLU:HA	1:31:A:VAL:HG11	15	2.27
(1,2923)	1:127:A:VAL:HG22	1:164:A:ILE:HB	10	2.27
(1,1807)	1:127:A:VAL:HG21	1:168:A:GLN:HG3	6	2.27
(1,1765)	1:99:A:VAL:HG13	1:110:A:PHE:HD1	5	2.27
(1,3024)	1:35:A:GLU:HA	1:31:A:VAL:HG12	6	2.26
(1,2923)	1:127:A:VAL:HG22	1:164:A:ILE:HB	17	2.26
(1,2462)	1:87:A:LYS:HE3	1:79:A:LEU:HD13	8	2.26
(1,2031)	1:124:A:LYS:HG3	1:123:A:LYS:HD3	5	2.26
(1,1978)	1:71:A:LEU:HD22	1:92:A:VAL:HG23	14	2.26
(1,1546)	1:120:A:ILE:HD13	1:98:A:LEU:HB2	6	2.26
(1,3024)	1:35:A:GLU:HA	1:31:A:VAL:HG13	4	2.25
(1,2031)	1:124:A:LYS:HG3	1:123:A:LYS:HD3	11	2.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3225)	1:79:A:LEU:HD21	1:153:A:HIS:H	9	2.24
(1,3225)	1:79:A:LEU:HD23	1:153:A:HIS:H	19	2.24
(1,3024)	1:35:A:GLU:HA	1:31:A:VAL:HG11	2	2.24
(1,3024)	1:35:A:GLU:HA	1:31:A:VAL:HG11	13	2.24
(1,3024)	1:35:A:GLU:HA	1:31:A:VAL:HG13	20	2.24
(1,1651)	1:131:A:ALA:HB2	1:130:A:VAL:HG13	8	2.24
(1,1651)	1:131:A:ALA:HB3	1:130:A:VAL:HG11	17	2.24
(1,3225)	1:79:A:LEU:HD22	1:153:A:HIS:H	6	2.23
(1,3024)	1:35:A:GLU:HA	1:31:A:VAL:HG11	1	2.23
(1,3024)	1:35:A:GLU:HA	1:31:A:VAL:HG11	11	2.23
(1,3024)	1:35:A:GLU:HA	1:31:A:VAL:HG11	12	2.23
(1,3024)	1:35:A:GLU:HA	1:31:A:VAL:HG12	14	2.23
(1,1978)	1:71:A:LEU:HD21	1:92:A:VAL:HG21	8	2.23
(1,220)	1:42:A:GLU:HB3	1:38:A:VAL:HG13	13	2.23
(1,2923)	1:127:A:VAL:HG22	1:164:A:ILE:HB	2	2.22
(1,2715)	1:4:A:LYS:HA	1:8:A:VAL:HG13	15	2.22
(1,220)	1:42:A:GLU:HB3	1:38:A:VAL:HG11	2	2.22
(1,220)	1:42:A:GLU:HB3	1:38:A:VAL:HG12	12	2.22
(1,3166)	1:152:A:VAL:HG11	1:79:A:LEU:HD23	7	2.21
(1,3166)	1:152:A:VAL:HG12	1:79:A:LEU:HD22	9	2.21
(1,3166)	1:152:A:VAL:HG12	1:79:A:LEU:HD21	10	2.21
(1,1807)	1:127:A:VAL:HG23	1:168:A:GLN:HG3	4	2.21
(1,1807)	1:127:A:VAL:HG23	1:168:A:GLN:HG3	16	2.21
(1,1807)	1:127:A:VAL:HG22	1:168:A:GLN:HG3	17	2.21
(1,1546)	1:120:A:ILE:HD11	1:98:A:LEU:HB2	13	2.21
(1,500)	1:163:A:TRP:HE3	1:137:A:LEU:HD13	6	2.21
(1,3225)	1:79:A:LEU:HD21	1:153:A:HIS:H	3	2.2
(1,3024)	1:35:A:GLU:HA	1:31:A:VAL:HG11	17	2.2
(1,2923)	1:127:A:VAL:HG21	1:164:A:ILE:HB	6	2.2
(1,2031)	1:124:A:LYS:HG3	1:123:A:LYS:HD3	1	2.2
(1,1953)	1:66:A:LEU:HD13	1:40:A:LEU:HD23	15	2.2
(1,1765)	1:99:A:VAL:HG13	1:110:A:PHE:HD1	1	2.2
(1,1765)	1:99:A:VAL:HG11	1:110:A:PHE:HD1	9	2.2
(1,1765)	1:99:A:VAL:HG11	1:110:A:PHE:HD1	16	2.2
(1,1735)	1:130:A:VAL:HG11	1:138:A:PHE:HE2	8	2.2
(1,1546)	1:120:A:ILE:HD13	1:98:A:LEU:HB2	16	2.2
(1,3225)	1:79:A:LEU:HD21	1:153:A:HIS:H	17	2.19
(1,3168)	1:31:A:VAL:HG12	1:34:A:TYR:HE2	8	2.19
(1,2462)	1:87:A:LYS:HE3	1:79:A:LEU:HD12	2	2.19
(1,2462)	1:87:A:LYS:HE3	1:79:A:LEU:HD11	9	2.19
(1,2014)	1:93:A:LEU:HD11	1:98:A:LEU:HD23	4	2.19
(1,1807)	1:127:A:VAL:HG22	1:168:A:GLN:HG3	2	2.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1807)	1:127:A:VAL:HG22	1:168:A:GLN:HG3	5	2.19
(1,1807)	1:127:A:VAL:HG23	1:168:A:GLN:HG3	12	2.19
(1,1765)	1:99:A:VAL:HG12	1:110:A:PHE:HD1	7	2.19
(1,1765)	1:99:A:VAL:HG13	1:110:A:PHE:HD1	13	2.19
(1,1616)	1:171:A:ILE:HG21	1:124:A:LYS:HG3	4	2.19
(1,3225)	1:79:A:LEU:HD21	1:153:A:HIS:H	4	2.18
(1,3225)	1:79:A:LEU:HD22	1:153:A:HIS:H	14	2.18
(1,3166)	1:152:A:VAL:HG12	1:79:A:LEU:HD22	2	2.18
(1,3166)	1:152:A:VAL:HG11	1:79:A:LEU:HD23	6	2.18
(1,2923)	1:127:A:VAL:HG22	1:164:A:ILE:HB	11	2.18
(1,2031)	1:124:A:LYS:HG3	1:123:A:LYS:HD3	4	2.18
(1,2031)	1:124:A:LYS:HG3	1:123:A:LYS:HD3	14	2.18
(1,1927)	1:19:A:LEU:HD12	1:11:A:GLU:HA	17	2.18
(1,1765)	1:99:A:VAL:HG11	1:110:A:PHE:HD1	18	2.18
(1,1651)	1:131:A:ALA:HB3	1:130:A:VAL:HG12	7	2.18
(1,213)	1:123:A:LYS:HD3	1:181:A:GLY:HA2	11	2.18
(1,3166)	1:152:A:VAL:HG12	1:79:A:LEU:HD21	1	2.17
(1,2923)	1:127:A:VAL:HG22	1:164:A:ILE:HB	5	2.17
(1,2462)	1:87:A:LYS:HE3	1:79:A:LEU:HD13	7	2.17
(1,2462)	1:87:A:LYS:HE3	1:79:A:LEU:HD11	14	2.17
(1,1807)	1:127:A:VAL:HG22	1:168:A:GLN:HG3	1	2.17
(1,462)	1:94:A:LEU:HD21	1:93:A:LEU:H	6	2.17
(1,213)	1:123:A:LYS:HD3	1:181:A:GLY:HA2	14	2.17
(1,3523)	1:130:A:VAL:HG12	1:132:A:HIS:HD2	18	2.16
(1,2923)	1:127:A:VAL:HG22	1:164:A:ILE:HB	1	2.16
(1,2923)	1:127:A:VAL:HG22	1:164:A:ILE:HB	7	2.16
(1,2923)	1:127:A:VAL:HG22	1:164:A:ILE:HB	20	2.16
(1,1765)	1:99:A:VAL:HG11	1:110:A:PHE:HD1	10	2.16
(1,1651)	1:131:A:ALA:HB1	1:130:A:VAL:HG11	9	2.16
(1,1546)	1:120:A:ILE:HD11	1:98:A:LEU:HB2	7	2.16
(1,3279)	1:92:A:VAL:HG12	1:91:A:ALA:H	12	2.15
(1,3225)	1:79:A:LEU:HD23	1:153:A:HIS:H	15	2.15
(1,3168)	1:31:A:VAL:HG12	1:34:A:TYR:HE2	14	2.15
(1,3166)	1:152:A:VAL:HG13	1:79:A:LEU:HD21	18	2.15
(1,2389)	1:151:A:GLU:HG3	1:150:A:VAL:HG12	16	2.15
(1,1807)	1:127:A:VAL:HG23	1:168:A:GLN:HG3	18	2.15
(1,1765)	1:99:A:VAL:HG13	1:110:A:PHE:HD1	12	2.15
(1,1765)	1:99:A:VAL:HG13	1:110:A:PHE:HD1	14	2.15
(1,1765)	1:99:A:VAL:HG11	1:110:A:PHE:HD1	20	2.15
(1,1686)	1:111:A:ALA:HB1	1:79:A:LEU:HD11	5	2.15
(1,489)	1:70:A:LYS:HB3	1:36:A:LYS:HE2	15	2.15
(1,213)	1:123:A:LYS:HD3	1:181:A:GLY:HA2	1	2.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,213)	1:123:A:LYS:HD3	1:181:A:GLY:HA2	2	2.15
(1,3166)	1:152:A:VAL:HG11	1:79:A:LEU:HD21	15	2.14
(1,2923)	1:127:A:VAL:HG21	1:164:A:ILE:HB	15	2.14
(1,2461)	1:96:A:ASP:HB2	1:185:A:GLU:HB3	4	2.14
(1,1953)	1:66:A:LEU:HD13	1:40:A:LEU:HD22	4	2.14
(1,1880)	1:66:A:LEU:HD21	1:61:A:PHE:HD1	1	2.14
(1,1765)	1:99:A:VAL:HG12	1:110:A:PHE:HD1	17	2.14
(1,1765)	1:99:A:VAL:HG13	1:110:A:PHE:HD1	19	2.14
(1,1686)	1:111:A:ALA:HB3	1:79:A:LEU:HD11	15	2.14
(1,1651)	1:131:A:ALA:HB3	1:130:A:VAL:HG11	14	2.14
(1,1546)	1:120:A:ILE:HD11	1:98:A:LEU:HB2	17	2.14
(1,220)	1:42:A:GLU:HB3	1:38:A:VAL:HG12	5	2.14
(1,220)	1:42:A:GLU:HB3	1:38:A:VAL:HG11	15	2.14
(1,213)	1:123:A:LYS:HD3	1:181:A:GLY:HA2	19	2.14
(1,2923)	1:127:A:VAL:HG23	1:164:A:ILE:HB	16	2.13
(1,2923)	1:127:A:VAL:HG23	1:164:A:ILE:HB	18	2.13
(1,2463)	1:87:A:LYS:HE2	1:79:A:LEU:HD11	4	2.13
(1,2463)	1:87:A:LYS:HE2	1:79:A:LEU:HD13	17	2.13
(1,2462)	1:87:A:LYS:HE3	1:79:A:LEU:HD11	6	2.13
(1,1927)	1:19:A:LEU:HD13	1:11:A:GLU:HA	8	2.13
(1,1765)	1:99:A:VAL:HG13	1:110:A:PHE:HD1	6	2.13
(1,1651)	1:131:A:ALA:HB3	1:130:A:VAL:HG12	4	2.13
(1,1651)	1:131:A:ALA:HB3	1:130:A:VAL:HG13	16	2.13
(1,1410)	1:172:A:ASN:HD22	1:168:A:GLN:HG3	3	2.13
(1,213)	1:123:A:LYS:HD3	1:181:A:GLY:HA2	13	2.13
(1,3279)	1:92:A:VAL:HG11	1:91:A:ALA:H	1	2.12
(1,3279)	1:92:A:VAL:HG13	1:91:A:ALA:H	15	2.12
(1,3225)	1:79:A:LEU:HD22	1:153:A:HIS:H	8	2.12
(1,3006)	1:22:A:ASP:HA	1:15:A:GLN:HB2	7	2.12
(1,2923)	1:127:A:VAL:HG23	1:164:A:ILE:HB	13	2.12
(1,2463)	1:87:A:LYS:HE2	1:79:A:LEU:HD13	18	2.12
(1,2462)	1:87:A:LYS:HE3	1:79:A:LEU:HD11	16	2.12
(1,1765)	1:99:A:VAL:HG13	1:110:A:PHE:HD1	4	2.12
(1,1765)	1:99:A:VAL:HG13	1:110:A:PHE:HD1	11	2.12
(1,1651)	1:131:A:ALA:HB3	1:130:A:VAL:HG12	15	2.12
(1,1651)	1:131:A:ALA:HB1	1:130:A:VAL:HG13	20	2.12
(1,3225)	1:79:A:LEU:HD21	1:153:A:HIS:H	13	2.11
(1,2462)	1:87:A:LYS:HE3	1:79:A:LEU:HD11	1	2.11
(1,2462)	1:87:A:LYS:HE3	1:79:A:LEU:HD12	3	2.11
(1,1953)	1:66:A:LEU:HD13	1:40:A:LEU:HD23	9	2.11
(1,1953)	1:66:A:LEU:HD11	1:40:A:LEU:HD22	12	2.11
(1,1927)	1:19:A:LEU:HD11	1:11:A:GLU:HA	19	2.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1880)	1:66:A:LEU:HD23	1:61:A:PHE:HD1	11	2.11
(1,1765)	1:99:A:VAL:HG13	1:110:A:PHE:HD1	3	2.11
(1,1546)	1:120:A:ILE:HD11	1:98:A:LEU:HB2	9	2.11
(1,489)	1:70:A:LYS:HB3	1:36:A:LYS:HE2	10	2.11
(1,3279)	1:92:A:VAL:HG12	1:91:A:ALA:H	16	2.1
(1,2462)	1:87:A:LYS:HE3	1:79:A:LEU:HD12	19	2.1
(1,1978)	1:71:A:LEU:HD21	1:92:A:VAL:HG22	11	2.1
(1,1978)	1:71:A:LEU:HD21	1:92:A:VAL:HG21	20	2.1
(1,1953)	1:66:A:LEU:HD11	1:40:A:LEU:HD23	19	2.1
(1,1880)	1:66:A:LEU:HD22	1:61:A:PHE:HD1	12	2.1
(1,1765)	1:99:A:VAL:HG12	1:110:A:PHE:HD1	2	2.1
(1,1686)	1:111:A:ALA:HB1	1:79:A:LEU:HD13	18	2.1
(1,1546)	1:120:A:ILE:HD13	1:98:A:LEU:HB2	2	2.1
(1,213)	1:123:A:LYS:HD3	1:181:A:GLY:HA2	7	2.1
(1,213)	1:123:A:LYS:HD3	1:181:A:GLY:HA2	9	2.1
(1,3166)	1:152:A:VAL:HG12	1:79:A:LEU:HD22	5	2.09
(1,3006)	1:22:A:ASP:HA	1:15:A:GLN:HB2	20	2.09
(1,2923)	1:127:A:VAL:HG22	1:164:A:ILE:HB	14	2.09
(1,2463)	1:87:A:LYS:HE2	1:79:A:LEU:HD12	19	2.09
(1,2462)	1:87:A:LYS:HE3	1:79:A:LEU:HD13	13	2.09
(1,1953)	1:66:A:LEU:HD13	1:40:A:LEU:HD21	3	2.09
(1,1953)	1:66:A:LEU:HD11	1:40:A:LEU:HD23	13	2.09
(1,1953)	1:66:A:LEU:HD13	1:40:A:LEU:HD23	14	2.09
(1,1817)	1:79:A:LEU:HD22	1:77:A:VAL:HG23	7	2.09
(1,1686)	1:111:A:ALA:HB3	1:79:A:LEU:HD12	3	2.09
(1,1651)	1:131:A:ALA:HB1	1:130:A:VAL:HG12	6	2.09
(1,1616)	1:171:A:ILE:HG21	1:124:A:LYS:HG3	18	2.09
(1,319)	1:28:A:ASP:HA	1:31:A:VAL:HG21	20	2.09
(1,220)	1:42:A:GLU:HB3	1:38:A:VAL:HG12	20	2.09
(1,213)	1:123:A:LYS:HD3	1:181:A:GLY:HA2	5	2.09
(1,3166)	1:152:A:VAL:HG12	1:79:A:LEU:HD23	14	2.08
(1,2463)	1:87:A:LYS:HE2	1:79:A:LEU:HD11	15	2.08
(1,2462)	1:87:A:LYS:HE3	1:79:A:LEU:HD11	5	2.08
(1,1880)	1:66:A:LEU:HD23	1:61:A:PHE:HD1	3	2.08
(1,1880)	1:66:A:LEU:HD21	1:61:A:PHE:HD1	18	2.08
(1,1651)	1:131:A:ALA:HB3	1:130:A:VAL:HG13	12	2.08
(1,1616)	1:171:A:ILE:HG23	1:124:A:LYS:HG3	6	2.08
(1,1616)	1:171:A:ILE:HG22	1:124:A:LYS:HG3	16	2.08
(1,253)	1:115:A:GLN:HG2	1:113:A:LEU:HB2	11	2.08
(1,213)	1:123:A:LYS:HD3	1:181:A:GLY:HA2	20	2.08
(1,3279)	1:92:A:VAL:HG13	1:91:A:ALA:H	6	2.07
(1,2389)	1:151:A:GLU:HG3	1:150:A:VAL:HG11	7	2.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2328)	1:4:A:LYS:HB3	1:8:A:VAL:HG13	15	2.07
(1,1817)	1:79:A:LEU:HD23	1:77:A:VAL:HG21	10	2.07
(1,1651)	1:131:A:ALA:HB3	1:130:A:VAL:HG11	10	2.07
(1,3279)	1:92:A:VAL:HG11	1:91:A:ALA:H	4	2.06
(1,3279)	1:92:A:VAL:HG11	1:91:A:ALA:H	14	2.06
(1,2923)	1:127:A:VAL:HG23	1:164:A:ILE:HB	4	2.06
(1,2462)	1:87:A:LYS:HE3	1:79:A:LEU:HD11	10	2.06
(1,2003)	1:36:A:LYS:HG2	1:40:A:LEU:HD12	3	2.06
(1,1953)	1:66:A:LEU:HD12	1:40:A:LEU:HD22	2	2.06
(1,1953)	1:66:A:LEU:HD12	1:40:A:LEU:HD23	5	2.06
(1,1686)	1:111:A:ALA:HB3	1:79:A:LEU:HD13	7	2.06
(1,1651)	1:131:A:ALA:HB2	1:130:A:VAL:HG12	13	2.06
(1,220)	1:42:A:GLU:HB3	1:38:A:VAL:HG13	19	2.06
(1,213)	1:123:A:LYS:HD3	1:181:A:GLY:HA2	10	2.06
(1,3279)	1:92:A:VAL:HG11	1:91:A:ALA:H	11	2.05
(1,2923)	1:127:A:VAL:HG22	1:164:A:ILE:HB	8	2.05
(1,2923)	1:127:A:VAL:HG23	1:164:A:ILE:HB	19	2.05
(1,2461)	1:96:A:ASP:HB2	1:185:A:GLU:HB3	19	2.05
(1,2389)	1:151:A:GLU:HG3	1:150:A:VAL:HG12	8	2.05
(1,1927)	1:19:A:LEU:HD11	1:11:A:GLU:HA	3	2.05
(1,1880)	1:66:A:LEU:HD21	1:61:A:PHE:HD1	13	2.05
(1,1880)	1:66:A:LEU:HD23	1:61:A:PHE:HD1	20	2.05
(1,1702)	1:92:A:VAL:HG12	1:101:A:LEU:HD12	3	2.05
(1,1651)	1:131:A:ALA:HB2	1:130:A:VAL:HG11	5	2.05
(1,1616)	1:171:A:ILE:HG22	1:124:A:LYS:HG3	1	2.05
(1,3279)	1:92:A:VAL:HG12	1:91:A:ALA:H	2	2.04
(1,2463)	1:87:A:LYS:HE2	1:79:A:LEU:HD13	8	2.04
(1,2461)	1:96:A:ASP:HB2	1:185:A:GLU:HB3	17	2.04
(1,2328)	1:4:A:LYS:HB3	1:8:A:VAL:HG13	9	2.04
(1,1880)	1:66:A:LEU:HD21	1:61:A:PHE:HD1	4	2.04
(1,1734)	1:130:A:VAL:HG13	1:138:A:PHE:HZ	8	2.04
(1,1702)	1:92:A:VAL:HG11	1:101:A:LEU:HD11	13	2.04
(1,1686)	1:111:A:ALA:HB3	1:79:A:LEU:HD11	1	2.04
(1,1651)	1:131:A:ALA:HB3	1:130:A:VAL:HG12	1	2.04
(1,213)	1:123:A:LYS:HD3	1:181:A:GLY:HA2	3	2.04
(1,3523)	1:130:A:VAL:HG12	1:132:A:HIS:HD2	8	2.03
(1,3279)	1:92:A:VAL:HG12	1:91:A:ALA:H	13	2.03
(1,3166)	1:152:A:VAL:HG13	1:79:A:LEU:HD22	3	2.03
(1,2389)	1:151:A:GLU:HG3	1:150:A:VAL:HG12	11	2.03
(1,1953)	1:66:A:LEU:HD13	1:40:A:LEU:HD22	7	2.03
(1,1953)	1:66:A:LEU:HD11	1:40:A:LEU:HD22	17	2.03
(1,1880)	1:66:A:LEU:HD23	1:61:A:PHE:HD1	16	2.03

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1651)	1:131:A:ALA:HB1	1:130:A:VAL:HG13	2	2.03
(1,1651)	1:131:A:ALA:HB3	1:130:A:VAL:HG12	3	2.03
(1,220)	1:42:A:GLU:HB3	1:38:A:VAL:HG12	18	2.03
(1,213)	1:123:A:LYS:HD3	1:181:A:GLY:HA2	4	2.03
(1,3279)	1:92:A:VAL:HG13	1:91:A:ALA:H	3	2.02
(1,3166)	1:152:A:VAL:HG11	1:79:A:LEU:HD21	19	2.02
(1,2328)	1:4:A:LYS:HB3	1:8:A:VAL:HG12	4	2.02
(1,1953)	1:66:A:LEU:HD11	1:40:A:LEU:HD21	6	2.02
(1,1880)	1:66:A:LEU:HD22	1:61:A:PHE:HD1	17	2.02
(1,1702)	1:92:A:VAL:HG12	1:101:A:LEU:HD11	6	2.02
(1,1616)	1:171:A:ILE:HG23	1:124:A:LYS:HG3	11	2.02
(1,1616)	1:171:A:ILE:HG21	1:124:A:LYS:HG3	14	2.02
(1,466)	1:99:A:VAL:HG23	1:66:A:LEU:HA	20	2.02
(1,416)	1:18:A:SER:HA	1:24:A:ILE:HD11	20	2.02
(1,213)	1:123:A:LYS:HD3	1:181:A:GLY:HA2	8	2.02
(1,3279)	1:92:A:VAL:HG11	1:91:A:ALA:H	7	2.01
(1,3279)	1:92:A:VAL:HG11	1:91:A:ALA:H	17	2.01
(1,3006)	1:22:A:ASP:HA	1:15:A:GLN:HB2	6	2.01
(1,2923)	1:127:A:VAL:HG22	1:164:A:ILE:HB	9	2.01
(1,2463)	1:87:A:LYS:HE2	1:79:A:LEU:HD12	2	2.01
(1,1953)	1:66:A:LEU:HD13	1:40:A:LEU:HD23	18	2.01
(1,1880)	1:66:A:LEU:HD22	1:61:A:PHE:HD1	2	2.01
(1,1880)	1:66:A:LEU:HD23	1:61:A:PHE:HD1	5	2.01
(1,1880)	1:66:A:LEU:HD23	1:61:A:PHE:HD1	6	2.01
(1,1880)	1:66:A:LEU:HD22	1:61:A:PHE:HD1	9	2.01
(1,1702)	1:92:A:VAL:HG12	1:101:A:LEU:HD13	15	2.01
(1,1651)	1:131:A:ALA:HB3	1:130:A:VAL:HG11	19	2.01
(1,220)	1:42:A:GLU:HB3	1:38:A:VAL:HG11	9	2.01
(1,3279)	1:92:A:VAL:HG11	1:91:A:ALA:H	10	2.0
(1,3279)	1:92:A:VAL:HG13	1:91:A:ALA:H	18	2.0
(1,2923)	1:127:A:VAL:HG22	1:164:A:ILE:HB	3	2.0
(1,2463)	1:87:A:LYS:HE2	1:79:A:LEU:HD11	9	2.0
(1,2462)	1:87:A:LYS:HE3	1:79:A:LEU:HD12	11	2.0
(1,2389)	1:151:A:GLU:HG3	1:150:A:VAL:HG13	14	2.0
(1,2014)	1:93:A:LEU:HD13	1:98:A:LEU:HD23	5	2.0
(1,2003)	1:36:A:LYS:HG2	1:40:A:LEU:HD12	1	2.0
(1,2003)	1:36:A:LYS:HG2	1:40:A:LEU:HD13	20	2.0
(1,1953)	1:66:A:LEU:HD11	1:40:A:LEU:HD23	10	2.0
(1,1953)	1:66:A:LEU:HD11	1:40:A:LEU:HD23	20	2.0
(1,766)	1:80:A:LYS:H	1:79:A:LEU:HD22	10	2.0
(1,220)	1:42:A:GLU:HB3	1:38:A:VAL:HG12	3	2.0
(1,220)	1:42:A:GLU:HB3	1:38:A:VAL:HG12	6	2.0

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3279)	1:92:A:VAL:HG12	1:91:A:ALA:H	8	1.99
(1,2461)	1:96:A:ASP:HB2	1:185:A:GLU:HB3	9	1.99
(1,2328)	1:4:A:LYS:HB3	1:8:A:VAL:HG13	2	1.99
(1,2070)	1:125:A:LEU:HD21	1:98:A:LEU:HD12	10	1.99
(1,1817)	1:79:A:LEU:HD23	1:77:A:VAL:HG21	1	1.99
(1,1686)	1:111:A:ALA:HB1	1:79:A:LEU:HD11	9	1.99
(1,1651)	1:131:A:ALA:HB1	1:130:A:VAL:HG12	11	1.99
(1,1651)	1:131:A:ALA:HB3	1:130:A:VAL:HG13	18	1.99
(1,1640)	1:82:A:ALA:HB2	1:81:A:ASN:HB3	2	1.99
(1,1616)	1:171:A:ILE:HG21	1:124:A:LYS:HG3	5	1.99
(1,1616)	1:171:A:ILE:HG22	1:124:A:LYS:HG3	7	1.99
(1,500)	1:163:A:TRP:HE3	1:137:A:LEU:HD11	4	1.99
(1,3166)	1:152:A:VAL:HG11	1:79:A:LEU:HD23	20	1.98
(1,2837)	1:141:A:SER:HB2	1:144:A:MET:HE3	8	1.98
(1,2463)	1:87:A:LYS:HE2	1:79:A:LEU:HD13	7	1.98
(1,2389)	1:151:A:GLU:HG3	1:150:A:VAL:HG13	17	1.98
(1,2251)	1:11:A:GLU:HB2	1:19:A:LEU:HD13	1	1.98
(1,1880)	1:66:A:LEU:HD22	1:61:A:PHE:HD1	10	1.98
(1,1880)	1:66:A:LEU:HD21	1:61:A:PHE:HD1	19	1.98
(1,1878)	1:66:A:LEU:HD23	1:61:A:PHE:HZ	14	1.98
(1,1616)	1:171:A:ILE:HG23	1:124:A:LYS:HG3	13	1.98
(1,1616)	1:171:A:ILE:HG23	1:124:A:LYS:HG3	20	1.98
(1,220)	1:42:A:GLU:HB3	1:38:A:VAL:HG12	8	1.98
(1,220)	1:42:A:GLU:HB3	1:38:A:VAL:HG11	10	1.98
(1,220)	1:42:A:GLU:HB3	1:38:A:VAL:HG12	11	1.98
(1,3523)	1:130:A:VAL:HG12	1:132:A:HIS:HD2	4	1.97
(1,3279)	1:92:A:VAL:HG13	1:91:A:ALA:H	20	1.97
(1,2463)	1:87:A:LYS:HE2	1:79:A:LEU:HD11	5	1.97
(1,2364)	1:134:A:GLU:HG2	1:157:A:LYS:HB3	20	1.97
(1,1880)	1:66:A:LEU:HD22	1:61:A:PHE:HD1	15	1.97
(1,1702)	1:92:A:VAL:HG13	1:101:A:LEU:HD13	10	1.97
(1,1616)	1:171:A:ILE:HG23	1:124:A:LYS:HG3	8	1.97
(1,1616)	1:171:A:ILE:HG22	1:124:A:LYS:HG3	17	1.97
(1,3279)	1:92:A:VAL:HG12	1:91:A:ALA:H	5	1.96
(1,2837)	1:141:A:SER:HB2	1:144:A:MET:HE3	12	1.96
(1,1702)	1:92:A:VAL:HG13	1:101:A:LEU:HD12	1	1.96
(1,1702)	1:92:A:VAL:HG11	1:101:A:LEU:HD12	12	1.96
(1,1702)	1:92:A:VAL:HG13	1:101:A:LEU:HD12	14	1.96
(1,1686)	1:111:A:ALA:HB1	1:79:A:LEU:HD11	10	1.96
(1,1686)	1:111:A:ALA:HB3	1:79:A:LEU:HD11	14	1.96
(1,1640)	1:82:A:ALA:HB2	1:81:A:ASN:HB3	18	1.96
(1,766)	1:80:A:LYS:H	1:79:A:LEU:HD21	11	1.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,220)	1:42:A:GLU:HB3	1:38:A:VAL:HG13	1	1.96
(1,220)	1:42:A:GLU:HB3	1:38:A:VAL:HG11	4	1.96
(1,213)	1:123:A:LYS:HD3	1:181:A:GLY:HA2	18	1.96
(1,1878)	1:66:A:LEU:HD22	1:61:A:PHE:HZ	10	1.95
(1,1686)	1:111:A:ALA:HB1	1:79:A:LEU:HD13	13	1.95
(1,1686)	1:111:A:ALA:HB3	1:79:A:LEU:HD13	17	1.95
(1,921)	1:31:A:VAL:H	1:31:A:VAL:HG23	14	1.95
(1,374)	1:33:A:SER:HB2	1:30:A:LYS:HE2	3	1.95
(1,2463)	1:87:A:LYS:HE2	1:79:A:LEU:HD11	14	1.94
(1,2462)	1:87:A:LYS:HE3	1:79:A:LEU:HD13	20	1.94
(1,1953)	1:66:A:LEU:HD12	1:40:A:LEU:HD23	8	1.94
(1,1878)	1:66:A:LEU:HD21	1:61:A:PHE:HZ	19	1.94
(1,1702)	1:92:A:VAL:HG12	1:101:A:LEU:HD13	9	1.94
(1,1686)	1:111:A:ALA:HB2	1:79:A:LEU:HD12	19	1.94
(1,921)	1:31:A:VAL:H	1:31:A:VAL:HG22	11	1.94
(1,921)	1:31:A:VAL:H	1:31:A:VAL:HG21	13	1.94
(1,921)	1:31:A:VAL:H	1:31:A:VAL:HG23	17	1.94
(1,766)	1:80:A:LYS:H	1:79:A:LEU:HD23	17	1.94
(1,466)	1:99:A:VAL:HG22	1:66:A:LEU:HA	2	1.94
(1,3080)	1:129:A:GLU:HA	1:130:A:VAL:HG21	9	1.93
(1,2463)	1:87:A:LYS:HE2	1:79:A:LEU:HD13	13	1.93
(1,2031)	1:124:A:LYS:HG3	1:123:A:LYS:HD3	10	1.93
(1,2014)	1:93:A:LEU:HD13	1:98:A:LEU:HD23	1	1.93
(1,2003)	1:36:A:LYS:HG2	1:40:A:LEU:HD13	6	1.93
(1,2003)	1:36:A:LYS:HG2	1:40:A:LEU:HD11	12	1.93
(1,1935)	1:56:A:LYS:HG2	1:121:A:SER:HB2	3	1.93
(1,1702)	1:92:A:VAL:HG13	1:101:A:LEU:HD12	4	1.93
(1,1702)	1:92:A:VAL:HG12	1:101:A:LEU:HD13	20	1.93
(1,1640)	1:82:A:ALA:HB1	1:81:A:ASN:HB3	6	1.93
(1,921)	1:31:A:VAL:H	1:31:A:VAL:HG22	1	1.93
(1,921)	1:31:A:VAL:H	1:31:A:VAL:HG22	4	1.93
(1,921)	1:31:A:VAL:H	1:31:A:VAL:HG23	6	1.93
(1,921)	1:31:A:VAL:H	1:31:A:VAL:HG22	8	1.93
(1,921)	1:31:A:VAL:H	1:31:A:VAL:HG21	15	1.93
(1,921)	1:31:A:VAL:H	1:31:A:VAL:HG22	18	1.93
(1,921)	1:31:A:VAL:H	1:31:A:VAL:HG23	20	1.93
(1,220)	1:42:A:GLU:HB3	1:38:A:VAL:HG12	14	1.93
(1,220)	1:42:A:GLU:HB3	1:38:A:VAL:HG12	16	1.93
(1,3279)	1:92:A:VAL:HG13	1:91:A:ALA:H	9	1.92
(1,3279)	1:92:A:VAL:HG12	1:91:A:ALA:H	19	1.92
(1,3080)	1:129:A:GLU:HA	1:130:A:VAL:HG23	2	1.92
(1,3080)	1:129:A:GLU:HA	1:130:A:VAL:HG21	8	1.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3080)	1:129:A:GLU:HA	1:130:A:VAL:HG21	11	1.92
(1,2533)	1:84:A:GLY:HA2	1:85:A:ARG:HG3	13	1.92
(1,2389)	1:151:A:GLU:HG3	1:150:A:VAL:HG12	4	1.92
(1,2003)	1:36:A:LYS:HG2	1:40:A:LEU:HD11	18	1.92
(1,1880)	1:66:A:LEU:HD22	1:61:A:PHE:HD1	14	1.92
(1,1878)	1:66:A:LEU:HD23	1:61:A:PHE:HZ	6	1.92
(1,1686)	1:111:A:ALA:HB2	1:79:A:LEU:HD13	8	1.92
(1,1616)	1:171:A:ILE:HG22	1:124:A:LYS:HG3	15	1.92
(1,921)	1:31:A:VAL:H	1:31:A:VAL:HG22	2	1.92
(1,921)	1:31:A:VAL:H	1:31:A:VAL:HG21	3	1.92
(1,921)	1:31:A:VAL:H	1:31:A:VAL:HG23	12	1.92
(1,921)	1:31:A:VAL:H	1:31:A:VAL:HG22	19	1.92
(1,766)	1:80:A:LYS:H	1:79:A:LEU:HD22	1	1.92
(1,766)	1:80:A:LYS:H	1:79:A:LEU:HD21	7	1.92
(1,466)	1:99:A:VAL:HG22	1:66:A:LEU:HA	3	1.92
(1,466)	1:99:A:VAL:HG22	1:66:A:LEU:HA	6	1.92
(1,448)	1:30:A:LYS:HE2	1:31:A:VAL:HG11	20	1.92
(1,3080)	1:129:A:GLU:HA	1:130:A:VAL:HG22	12	1.91
(1,3080)	1:129:A:GLU:HA	1:130:A:VAL:HG21	13	1.91
(1,2533)	1:84:A:GLY:HA2	1:85:A:ARG:HG3	3	1.91
(1,2533)	1:84:A:GLY:HA2	1:85:A:ARG:HG3	17	1.91
(1,2533)	1:84:A:GLY:HA2	1:85:A:ARG:HG3	18	1.91
(1,2533)	1:84:A:GLY:HA2	1:85:A:ARG:HG3	19	1.91
(1,2003)	1:36:A:LYS:HG2	1:40:A:LEU:HD11	8	1.91
(1,2003)	1:36:A:LYS:HG2	1:40:A:LEU:HD12	17	1.91
(1,1878)	1:66:A:LEU:HD23	1:61:A:PHE:HZ	2	1.91
(1,1806)	1:127:A:VAL:HG23	1:164:A:ILE:HG12	12	1.91
(1,1640)	1:82:A:ALA:HB3	1:81:A:ASN:HB3	19	1.91
(1,921)	1:31:A:VAL:H	1:31:A:VAL:HG23	5	1.91
(1,921)	1:31:A:VAL:H	1:31:A:VAL:HG22	7	1.91
(1,921)	1:31:A:VAL:H	1:31:A:VAL:HG21	9	1.91
(1,921)	1:31:A:VAL:H	1:31:A:VAL:HG22	10	1.91
(1,921)	1:31:A:VAL:H	1:31:A:VAL:HG23	16	1.91
(1,466)	1:99:A:VAL:HG22	1:66:A:LEU:HA	5	1.91
(1,3383)	1:42:A:GLU:HG3	1:38:A:VAL:HG23	13	1.9
(1,3080)	1:129:A:GLU:HA	1:130:A:VAL:HG22	20	1.9
(1,2837)	1:141:A:SER:HB2	1:144:A:MET:HE1	13	1.9
(1,2533)	1:84:A:GLY:HA2	1:85:A:ARG:HG3	14	1.9
(1,2492)	1:176:A:ARG:HB3	1:176:A:ARG:HD3	11	1.9
(1,2463)	1:87:A:LYS:HE2	1:79:A:LEU:HD11	16	1.9
(1,2070)	1:125:A:LEU:HD21	1:98:A:LEU:HD13	9	1.9
(1,2070)	1:125:A:LEU:HD23	1:98:A:LEU:HD13	17	1.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2003)	1:36:A:LYS:HG2	1:40:A:LEU:HD11	9	1.9
(1,2003)	1:36:A:LYS:HG2	1:40:A:LEU:HD11	10	1.9
(1,2003)	1:36:A:LYS:HG2	1:40:A:LEU:HD11	16	1.9
(1,2003)	1:36:A:LYS:HG2	1:40:A:LEU:HD12	19	1.9
(1,1987)	1:174:A:LEU:HD11	1:125:A:LEU:HD23	5	1.9
(1,1941)	1:70:A:LYS:HG2	1:36:A:LYS:HE2	5	1.9
(1,1891)	1:174:A:LEU:HD23	1:123:A:LYS:HE2	11	1.9
(1,1879)	1:67:A:LYS:H	1:66:A:LEU:HD21	15	1.9
(1,1878)	1:66:A:LEU:HD22	1:61:A:PHE:HZ	15	1.9
(1,1686)	1:111:A:ALA:HB2	1:79:A:LEU:HD12	2	1.9
(1,1686)	1:111:A:ALA:HB3	1:79:A:LEU:HD11	6	1.9
(1,1640)	1:82:A:ALA:HB1	1:81:A:ASN:HB3	7	1.9
(1,1640)	1:82:A:ALA:HB3	1:81:A:ASN:HB3	20	1.9
(1,1623)	1:43:A:ILE:HG21	1:66:A:LEU:HD13	15	1.9
(1,766)	1:80:A:LYS:H	1:79:A:LEU:HD23	13	1.9
(1,466)	1:99:A:VAL:HG21	1:66:A:LEU:HA	9	1.9
(1,466)	1:99:A:VAL:HG23	1:66:A:LEU:HA	10	1.9
(1,39)	1:170:A:THR:H	1:174:A:LEU:HD12	1	1.9
(1,3080)	1:129:A:GLU:HA	1:130:A:VAL:HG22	3	1.89
(1,3080)	1:129:A:GLU:HA	1:130:A:VAL:HG23	10	1.89
(1,3080)	1:129:A:GLU:HA	1:130:A:VAL:HG23	15	1.89
(1,2533)	1:84:A:GLY:HA2	1:85:A:ARG:HG3	1	1.89
(1,2533)	1:84:A:GLY:HA2	1:85:A:ARG:HG3	9	1.89
(1,2533)	1:84:A:GLY:HA2	1:85:A:ARG:HG3	11	1.89
(1,2533)	1:84:A:GLY:HA2	1:85:A:ARG:HG3	15	1.89
(1,2533)	1:84:A:GLY:HA2	1:85:A:ARG:HG3	16	1.89
(1,2533)	1:84:A:GLY:HA2	1:85:A:ARG:HG3	20	1.89
(1,2463)	1:87:A:LYS:HE2	1:79:A:LEU:HD11	1	1.89
(1,2070)	1:125:A:LEU:HD22	1:98:A:LEU:HD12	2	1.89
(1,2003)	1:36:A:LYS:HG2	1:40:A:LEU:HD11	2	1.89
(1,1953)	1:66:A:LEU:HD11	1:40:A:LEU:HD22	11	1.89
(1,1878)	1:66:A:LEU:HD22	1:61:A:PHE:HZ	1	1.89
(1,1878)	1:66:A:LEU:HD23	1:61:A:PHE:HZ	5	1.89
(1,1878)	1:66:A:LEU:HD21	1:61:A:PHE:HZ	16	1.89
(1,1702)	1:92:A:VAL:HG11	1:101:A:LEU:HD11	19	1.89
(1,1686)	1:111:A:ALA:HB1	1:79:A:LEU:HD13	20	1.89
(1,1640)	1:82:A:ALA:HB3	1:81:A:ASN:HB3	17	1.89
(1,3383)	1:42:A:GLU:HG3	1:38:A:VAL:HG23	19	1.88
(1,3080)	1:129:A:GLU:HA	1:130:A:VAL:HG22	1	1.88
(1,3080)	1:129:A:GLU:HA	1:130:A:VAL:HG23	4	1.88
(1,3080)	1:129:A:GLU:HA	1:130:A:VAL:HG21	7	1.88
(1,3080)	1:129:A:GLU:HA	1:130:A:VAL:HG23	14	1.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3080)	1:129:A:GLU:HA	1:130:A:VAL:HG21	19	1.88
(1,2536)	1:97:A:ILE:HB	1:99:A:VAL:HG21	20	1.88
(1,2534)	1:84:A:GLY:HA3	1:85:A:ARG:HG3	4	1.88
(1,2534)	1:84:A:GLY:HA3	1:85:A:ARG:HG3	16	1.88
(1,2533)	1:84:A:GLY:HA2	1:85:A:ARG:HG3	5	1.88
(1,2533)	1:84:A:GLY:HA2	1:85:A:ARG:HG3	6	1.88
(1,2533)	1:84:A:GLY:HA2	1:85:A:ARG:HG3	7	1.88
(1,2463)	1:87:A:LYS:HE2	1:79:A:LEU:HD11	6	1.88
(1,2070)	1:125:A:LEU:HD22	1:98:A:LEU:HD12	19	1.88
(1,2003)	1:36:A:LYS:HG2	1:40:A:LEU:HD11	14	1.88
(1,1987)	1:174:A:LEU:HD13	1:125:A:LEU:HD22	19	1.88
(1,1879)	1:67:A:LYS:H	1:66:A:LEU:HD21	14	1.88
(1,1878)	1:66:A:LEU:HD23	1:61:A:PHE:HZ	9	1.88
(1,1686)	1:111:A:ALA:HB3	1:79:A:LEU:HD11	16	1.88
(1,766)	1:80:A:LYS:H	1:79:A:LEU:HD21	6	1.88
(1,766)	1:80:A:LYS:H	1:79:A:LEU:HD21	8	1.88
(1,500)	1:163:A:TRP:HE3	1:137:A:LEU:HD13	12	1.88
(1,500)	1:163:A:TRP:HE3	1:137:A:LEU:HD11	19	1.88
(1,466)	1:99:A:VAL:HG21	1:66:A:LEU:HA	11	1.88
(1,462)	1:94:A:LEU:HD23	1:93:A:LEU:H	13	1.88
(1,62)	1:4:A:LYS:H	1:2:A:MET:HG2	2	1.88
(1,3480)	1:34:A:TYR:HD2	1:31:A:VAL:HG11	1	1.87
(1,3480)	1:34:A:TYR:HD1	1:31:A:VAL:HG11	15	1.87
(1,3383)	1:42:A:GLU:HG3	1:38:A:VAL:HG22	5	1.87
(1,3166)	1:152:A:VAL:HG13	1:79:A:LEU:HD22	4	1.87
(1,3166)	1:152:A:VAL:HG11	1:79:A:LEU:HD22	17	1.87
(1,3080)	1:129:A:GLU:HA	1:130:A:VAL:HG22	5	1.87
(1,3080)	1:129:A:GLU:HA	1:130:A:VAL:HG22	6	1.87
(1,3003)	1:150:A:VAL:HG23	1:100:A:PHE:HZ	3	1.87
(1,2533)	1:84:A:GLY:HA2	1:85:A:ARG:HG3	2	1.87
(1,2533)	1:84:A:GLY:HA2	1:85:A:ARG:HG3	10	1.87
(1,2492)	1:176:A:ARG:HB3	1:176:A:ARG:HD3	10	1.87
(1,2463)	1:87:A:LYS:HE2	1:79:A:LEU:HD12	3	1.87
(1,2070)	1:125:A:LEU:HD22	1:98:A:LEU:HD11	8	1.87
(1,1987)	1:174:A:LEU:HD12	1:125:A:LEU:HD21	13	1.87
(1,1941)	1:70:A:LYS:HG2	1:36:A:LYS:HE2	8	1.87
(1,1941)	1:70:A:LYS:HG2	1:36:A:LYS:HE2	9	1.87
(1,1935)	1:56:A:LYS:HG2	1:121:A:SER:HB2	15	1.87
(1,1891)	1:174:A:LEU:HD21	1:123:A:LYS:HE2	14	1.87
(1,1879)	1:67:A:LYS:H	1:66:A:LEU:HD22	5	1.87
(1,1878)	1:66:A:LEU:HD22	1:61:A:PHE:HZ	13	1.87
(1,1817)	1:79:A:LEU:HD22	1:77:A:VAL:HG23	20	1.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1806)	1:127:A:VAL:HG22	1:164:A:ILE:HG12	10	1.87
(1,1806)	1:127:A:VAL:HG22	1:164:A:ILE:HG12	17	1.87
(1,1702)	1:92:A:VAL:HG11	1:101:A:LEU:HD11	2	1.87
(1,1640)	1:82:A:ALA:HB3	1:81:A:ASN:HB3	11	1.87
(1,1616)	1:171:A:ILE:HG22	1:124:A:LYS:HG3	19	1.87
(1,500)	1:163:A:TRP:HE3	1:137:A:LEU:HD13	7	1.87
(1,466)	1:99:A:VAL:HG22	1:66:A:LEU:HA	12	1.87
(1,448)	1:30:A:LYS:HE2	1:31:A:VAL:HG13	14	1.87
(1,3080)	1:129:A:GLU:HA	1:130:A:VAL:HG21	18	1.86
(1,2533)	1:84:A:GLY:HA2	1:85:A:ARG:HG3	4	1.86
(1,2533)	1:84:A:GLY:HA2	1:85:A:ARG:HG3	12	1.86
(1,2492)	1:176:A:ARG:HB3	1:176:A:ARG:HD3	1	1.86
(1,2492)	1:176:A:ARG:HB3	1:176:A:ARG:HD3	4	1.86
(1,2364)	1:134:A:GLU:HG2	1:157:A:LYS:HB3	10	1.86
(1,2364)	1:134:A:GLU:HG2	1:157:A:LYS:HB3	19	1.86
(1,2070)	1:125:A:LEU:HD23	1:98:A:LEU:HD12	12	1.86
(1,1953)	1:66:A:LEU:HD13	1:40:A:LEU:HD23	16	1.86
(1,1879)	1:67:A:LYS:H	1:66:A:LEU:HD21	10	1.86
(1,1879)	1:67:A:LYS:H	1:66:A:LEU:HD21	12	1.86
(1,1734)	1:130:A:VAL:HG13	1:138:A:PHE:HZ	19	1.86
(1,1616)	1:171:A:ILE:HG23	1:124:A:LYS:HG3	3	1.86
(1,500)	1:163:A:TRP:HE3	1:137:A:LEU:HD11	3	1.86
(1,466)	1:99:A:VAL:HG21	1:66:A:LEU:HA	14	1.86
(1,466)	1:99:A:VAL:HG23	1:66:A:LEU:HA	18	1.86
(1,374)	1:33:A:SER:HB2	1:30:A:LYS:HE3	1	1.86
(1,319)	1:22:A:ASP:HA	1:23:A:VAL:HG11	8	1.86
(1,3166)	1:152:A:VAL:HG11	1:79:A:LEU:HD22	13	1.85
(1,3166)	1:152:A:VAL:HG13	1:79:A:LEU:HD22	16	1.85
(1,3080)	1:129:A:GLU:HA	1:130:A:VAL:HG22	16	1.85
(1,2533)	1:84:A:GLY:HA2	1:85:A:ARG:HG3	8	1.85
(1,2463)	1:87:A:LYS:HE2	1:79:A:LEU:HD11	10	1.85
(1,2118)	1:137:A:LEU:HD13	1:160:A:ARG:HA	8	1.85
(1,2070)	1:125:A:LEU:HD23	1:98:A:LEU:HD13	5	1.85
(1,2003)	1:36:A:LYS:HG2	1:40:A:LEU:HD11	4	1.85
(1,2003)	1:36:A:LYS:HG2	1:40:A:LEU:HD11	5	1.85
(1,2003)	1:36:A:LYS:HG2	1:40:A:LEU:HD13	15	1.85
(1,1941)	1:70:A:LYS:HG2	1:36:A:LYS:HE2	2	1.85
(1,1941)	1:70:A:LYS:HG2	1:36:A:LYS:HE2	14	1.85
(1,1941)	1:70:A:LYS:HG2	1:36:A:LYS:HE2	16	1.85
(1,1941)	1:70:A:LYS:HG2	1:36:A:LYS:HE2	17	1.85
(1,1891)	1:174:A:LEU:HD21	1:123:A:LYS:HE2	5	1.85
(1,1879)	1:67:A:LYS:H	1:66:A:LEU:HD22	6	1.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1878)	1:66:A:LEU:HD21	1:61:A:PHE:HZ	18	1.85
(1,1735)	1:130:A:VAL:HG13	1:138:A:PHE:HE2	13	1.85
(1,1735)	1:130:A:VAL:HG12	1:138:A:PHE:HE2	19	1.85
(1,1734)	1:130:A:VAL:HG13	1:138:A:PHE:HZ	12	1.85
(1,1640)	1:82:A:ALA:HB3	1:81:A:ASN:HB3	10	1.85
(1,1640)	1:82:A:ALA:HB1	1:81:A:ASN:HB3	15	1.85
(1,1623)	1:43:A:ILE:HG23	1:66:A:LEU:HD11	19	1.85
(1,1616)	1:171:A:ILE:HG21	1:124:A:LYS:HG3	9	1.85
(1,766)	1:80:A:LYS:H	1:79:A:LEU:HD23	4	1.85
(1,448)	1:30:A:LYS:HE2	1:31:A:VAL:HG13	6	1.85
(1,3480)	1:34:A:TYR:HD1	1:31:A:VAL:HG11	16	1.84
(1,3414)	1:137:A:LEU:HD21	1:127:A:VAL:HB	3	1.84
(1,3379)	1:101:A:LEU:HG	1:92:A:VAL:HG12	3	1.84
(1,2070)	1:125:A:LEU:HD23	1:98:A:LEU:HD12	11	1.84
(1,2070)	1:125:A:LEU:HD22	1:98:A:LEU:HD12	20	1.84
(1,2003)	1:36:A:LYS:HG2	1:40:A:LEU:HD13	7	1.84
(1,1941)	1:70:A:LYS:HG2	1:36:A:LYS:HE2	1	1.84
(1,1941)	1:70:A:LYS:HG2	1:36:A:LYS:HE2	4	1.84
(1,1941)	1:70:A:LYS:HG2	1:36:A:LYS:HE2	11	1.84
(1,1879)	1:67:A:LYS:H	1:66:A:LEU:HD23	18	1.84
(1,1735)	1:130:A:VAL:HG12	1:138:A:PHE:HE1	12	1.84
(1,1702)	1:92:A:VAL:HG12	1:101:A:LEU:HD13	18	1.84
(1,213)	1:123:A:LYS:HD3	1:181:A:GLY:HA2	16	1.84
(1,35)	1:119:A:VAL:H	1:120:A:ILE:HG13	2	1.84
(1,35)	1:119:A:VAL:H	1:120:A:ILE:HG13	13	1.84
(1,3480)	1:34:A:TYR:HD2	1:31:A:VAL:HG11	2	1.83
(1,3480)	1:34:A:TYR:HD1	1:31:A:VAL:HG13	4	1.83
(1,3480)	1:34:A:TYR:HD1	1:31:A:VAL:HG11	5	1.83
(1,3480)	1:34:A:TYR:HD1	1:31:A:VAL:HG11	11	1.83
(1,3480)	1:34:A:TYR:HD2	1:31:A:VAL:HG13	19	1.83
(1,3016)	1:151:A:GLU:HG2	1:150:A:VAL:HG12	18	1.83
(1,2070)	1:125:A:LEU:HD23	1:98:A:LEU:HD13	3	1.83
(1,2003)	1:36:A:LYS:HG2	1:40:A:LEU:HD11	11	1.83
(1,1987)	1:174:A:LEU:HD12	1:125:A:LEU:HD22	20	1.83
(1,1891)	1:174:A:LEU:HD21	1:123:A:LYS:HE2	16	1.83
(1,1879)	1:67:A:LYS:H	1:66:A:LEU:HD21	8	1.83
(1,1817)	1:79:A:LEU:HD22	1:77:A:VAL:HG21	8	1.83
(1,1817)	1:79:A:LEU:HD22	1:77:A:VAL:HG23	11	1.83
(1,1735)	1:130:A:VAL:HG13	1:138:A:PHE:HE1	14	1.83
(1,1702)	1:92:A:VAL:HG13	1:101:A:LEU:HD11	17	1.83
(1,500)	1:163:A:TRP:HE3	1:137:A:LEU:HD12	11	1.83
(1,500)	1:163:A:TRP:HE3	1:137:A:LEU:HD13	16	1.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,448)	1:30:A:LYS:HE2	1:31:A:VAL:HG11	19	1.83
(1,132)	1:66:A:LEU:HD21	1:110:A:PHE:HD1	1	1.83
(1,35)	1:119:A:VAL:H	1:120:A:ILE:HG13	9	1.83
(1,3533)	1:130:A:VAL:HG23	1:153:A:HIS:HD2	8	1.82
(1,3414)	1:137:A:LEU:HD22	1:127:A:VAL:HB	8	1.82
(1,3080)	1:129:A:GLU:HA	1:130:A:VAL:HG22	17	1.82
(1,2536)	1:97:A:ILE:HB	1:99:A:VAL:HG22	11	1.82
(1,2534)	1:84:A:GLY:HA3	1:85:A:ARG:HG3	10	1.82
(1,2364)	1:134:A:GLU:HG2	1:157:A:LYS:HB3	4	1.82
(1,2031)	1:124:A:LYS:HG3	1:123:A:LYS:HD3	2	1.82
(1,1935)	1:56:A:LYS:HG2	1:121:A:SER:HB2	6	1.82
(1,1878)	1:66:A:LEU:HD21	1:61:A:PHE:HZ	3	1.82
(1,1878)	1:66:A:LEU:HD23	1:61:A:PHE:HZ	17	1.82
(1,1735)	1:130:A:VAL:HG13	1:138:A:PHE:HE1	17	1.82
(1,1702)	1:92:A:VAL:HG11	1:101:A:LEU:HD12	8	1.82
(1,1686)	1:111:A:ALA:HB1	1:79:A:LEU:HD11	4	1.82
(1,1640)	1:82:A:ALA:HB3	1:81:A:ASN:HB3	5	1.82
(1,766)	1:80:A:LYS:H	1:79:A:LEU:HD23	2	1.82
(1,766)	1:80:A:LYS:H	1:79:A:LEU:HD22	15	1.82
(1,766)	1:80:A:LYS:H	1:79:A:LEU:HD22	18	1.82
(1,500)	1:163:A:TRP:HE3	1:137:A:LEU:HD13	14	1.82
(1,466)	1:99:A:VAL:HG21	1:66:A:LEU:HA	8	1.82
(1,466)	1:99:A:VAL:HG22	1:66:A:LEU:HA	16	1.82
(1,3480)	1:34:A:TYR:HD1	1:31:A:VAL:HG13	20	1.81
(1,2534)	1:84:A:GLY:HA3	1:85:A:ARG:HG3	6	1.81
(1,2120)	1:137:A:LEU:HD13	1:163:A:TRP:HB2	8	1.81
(1,1926)	1:19:A:LEU:HD12	1:18:A:SER:HB2	7	1.81
(1,1806)	1:127:A:VAL:HG22	1:164:A:ILE:HG12	20	1.81
(1,1759)	1:99:A:VAL:HG12	1:101:A:LEU:HD22	8	1.81
(1,1759)	1:99:A:VAL:HG13	1:101:A:LEU:HD21	14	1.81
(1,1757)	1:99:A:VAL:HG21	1:92:A:VAL:HB	1	1.81
(1,1702)	1:92:A:VAL:HG13	1:101:A:LEU:HD11	11	1.81
(1,1702)	1:92:A:VAL:HG11	1:101:A:LEU:HD13	16	1.81
(1,1686)	1:111:A:ALA:HB1	1:79:A:LEU:HD12	11	1.81
(1,1640)	1:82:A:ALA:HB3	1:81:A:ASN:HB3	1	1.81
(1,500)	1:163:A:TRP:HE3	1:137:A:LEU:HD13	10	1.81
(1,448)	1:30:A:LYS:HE2	1:31:A:VAL:HG12	12	1.81
(1,220)	1:42:A:GLU:HB3	1:38:A:VAL:HG13	7	1.81
(1,220)	1:42:A:GLU:HB3	1:38:A:VAL:HG12	17	1.81
(1,132)	1:66:A:LEU:HD21	1:110:A:PHE:HD1	7	1.81
(1,3480)	1:34:A:TYR:HD1	1:31:A:VAL:HG13	18	1.8
(1,3414)	1:137:A:LEU:HD22	1:127:A:VAL:HB	19	1.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2837)	1:141:A:SER:HB2	1:144:A:MET:HE2	20	1.8
(1,2818)	1:76:A:SER:HB3	1:78:A:PHE:HE1	7	1.8
(1,2818)	1:76:A:SER:HB3	1:78:A:PHE:HE1	20	1.8
(1,2003)	1:36:A:LYS:HG2	1:40:A:LEU:HD12	13	1.8
(1,1941)	1:70:A:LYS:HG2	1:36:A:LYS:HE2	6	1.8
(1,1941)	1:70:A:LYS:HG2	1:36:A:LYS:HE2	18	1.8
(1,1941)	1:70:A:LYS:HG2	1:36:A:LYS:HE2	19	1.8
(1,1941)	1:70:A:LYS:HG2	1:36:A:LYS:HE2	20	1.8
(1,1807)	1:127:A:VAL:HG22	1:168:A:GLN:HG3	3	1.8
(1,1807)	1:127:A:VAL:HG22	1:168:A:GLN:HG3	9	1.8
(1,1806)	1:127:A:VAL:HG22	1:164:A:ILE:HG12	2	1.8
(1,1759)	1:99:A:VAL:HG13	1:101:A:LEU:HD21	4	1.8
(1,1735)	1:130:A:VAL:HG12	1:138:A:PHE:HE1	18	1.8
(1,1702)	1:92:A:VAL:HG11	1:101:A:LEU:HD11	5	1.8
(1,1623)	1:43:A:ILE:HG22	1:66:A:LEU:HD13	1	1.8
(1,1623)	1:43:A:ILE:HG22	1:66:A:LEU:HD11	13	1.8
(1,500)	1:163:A:TRP:HE3	1:137:A:LEU:HD11	13	1.8
(1,500)	1:163:A:TRP:HE3	1:137:A:LEU:HD11	17	1.8
(1,448)	1:30:A:LYS:HE2	1:31:A:VAL:HG12	5	1.8
(1,448)	1:30:A:LYS:HE2	1:31:A:VAL:HG12	17	1.8
(1,319)	1:22:A:ASP:HA	1:23:A:VAL:HG11	11	1.8
(1,3532)	1:153:A:HIS:HD2	1:133:A:GLU:HG3	18	1.79
(1,3480)	1:34:A:TYR:HD2	1:31:A:VAL:HG11	9	1.79
(1,3480)	1:34:A:TYR:HD1	1:31:A:VAL:HG13	10	1.79
(1,3379)	1:101:A:LEU:HG	1:92:A:VAL:HG11	5	1.79
(1,3016)	1:151:A:GLU:HG2	1:150:A:VAL:HG12	1	1.79
(1,3016)	1:151:A:GLU:HG2	1:150:A:VAL:HG13	14	1.79
(1,3015)	1:151:A:GLU:HG2	1:80:A:LYS:HB3	8	1.79
(1,2070)	1:125:A:LEU:HD22	1:98:A:LEU:HD13	7	1.79
(1,2070)	1:125:A:LEU:HD22	1:98:A:LEU:HD11	14	1.79
(1,2070)	1:125:A:LEU:HD21	1:98:A:LEU:HD11	15	1.79
(1,1987)	1:174:A:LEU:HD11	1:125:A:LEU:HD22	14	1.79
(1,1891)	1:174:A:LEU:HD23	1:123:A:LYS:HE2	1	1.79
(1,1878)	1:66:A:LEU:HD23	1:61:A:PHE:HZ	12	1.79
(1,1806)	1:127:A:VAL:HG21	1:164:A:ILE:HG12	6	1.79
(1,1759)	1:99:A:VAL:HG11	1:101:A:LEU:HD23	10	1.79
(1,1735)	1:130:A:VAL:HG11	1:138:A:PHE:HE1	7	1.79
(1,1735)	1:130:A:VAL:HG12	1:138:A:PHE:HE1	16	1.79
(1,1734)	1:130:A:VAL:HG12	1:138:A:PHE:HZ	18	1.79
(1,1623)	1:43:A:ILE:HG23	1:66:A:LEU:HD12	2	1.79
(1,500)	1:163:A:TRP:HE3	1:137:A:LEU:HD11	1	1.79
(1,500)	1:163:A:TRP:HE3	1:137:A:LEU:HD13	5	1.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,466)	1:99:A:VAL:HG22	1:66:A:LEU:HA	19	1.79
(1,448)	1:30:A:LYS:HE2	1:31:A:VAL:HG12	2	1.79
(1,35)	1:119:A:VAL:H	1:120:A:ILE:HG13	17	1.79
(1,3414)	1:137:A:LEU:HD23	1:127:A:VAL:HB	9	1.78
(1,3383)	1:42:A:GLU:HG3	1:38:A:VAL:HG22	1	1.78
(1,3015)	1:151:A:GLU:HG2	1:80:A:LYS:HB3	16	1.78
(1,2640)	1:128:A:ARG:HA	1:138:A:PHE:HB3	9	1.78
(1,2640)	1:128:A:ARG:HA	1:138:A:PHE:HB3	13	1.78
(1,2640)	1:128:A:ARG:HA	1:138:A:PHE:HB3	20	1.78
(1,2463)	1:87:A:LYS:HE2	1:79:A:LEU:HD12	11	1.78
(1,2461)	1:96:A:ASP:HB2	1:185:A:GLU:HB3	3	1.78
(1,2070)	1:125:A:LEU:HD22	1:98:A:LEU:HD12	1	1.78
(1,1987)	1:174:A:LEU:HD12	1:125:A:LEU:HD21	8	1.78
(1,1987)	1:174:A:LEU:HD13	1:125:A:LEU:HD21	9	1.78
(1,1941)	1:70:A:LYS:HG2	1:36:A:LYS:HE2	13	1.78
(1,1891)	1:174:A:LEU:HD22	1:123:A:LYS:HE2	4	1.78
(1,1879)	1:67:A:LYS:H	1:66:A:LEU:HD21	2	1.78
(1,1879)	1:67:A:LYS:H	1:66:A:LEU:HD21	9	1.78
(1,1806)	1:127:A:VAL:HG22	1:164:A:ILE:HG12	11	1.78
(1,1759)	1:99:A:VAL:HG11	1:101:A:LEU:HD22	9	1.78
(1,1759)	1:99:A:VAL:HG11	1:101:A:LEU:HD21	16	1.78
(1,1759)	1:99:A:VAL:HG12	1:101:A:LEU:HD21	17	1.78
(1,1757)	1:99:A:VAL:HG22	1:92:A:VAL:HB	18	1.78
(1,1640)	1:82:A:ALA:HB1	1:81:A:ASN:HB3	3	1.78
(1,1640)	1:82:A:ALA:HB2	1:81:A:ASN:HB3	13	1.78
(1,500)	1:163:A:TRP:HE3	1:137:A:LEU:HD12	9	1.78
(1,466)	1:99:A:VAL:HG22	1:66:A:LEU:HA	15	1.78
(1,448)	1:30:A:LYS:HE2	1:31:A:VAL:HG11	10	1.78
(1,448)	1:30:A:LYS:HE2	1:31:A:VAL:HG12	13	1.78
(1,3480)	1:34:A:TYR:HD1	1:31:A:VAL:HG11	13	1.77
(1,3468)	1:138:A:PHE:HD1	1:151:A:GLU:HG3	10	1.77
(1,3394)	1:134:A:GLU:HG2	1:157:A:LYS:HG3	14	1.77
(1,3379)	1:101:A:LEU:HG	1:92:A:VAL:HG13	1	1.77
(1,3003)	1:150:A:VAL:HG21	1:100:A:PHE:HZ	15	1.77
(1,2364)	1:134:A:GLU:HG2	1:157:A:LYS:HB3	6	1.77
(1,2070)	1:125:A:LEU:HD21	1:98:A:LEU:HD11	16	1.77
(1,2070)	1:125:A:LEU:HD23	1:98:A:LEU:HD13	18	1.77
(1,1987)	1:174:A:LEU:HD13	1:125:A:LEU:HD23	4	1.77
(1,1941)	1:70:A:LYS:HG2	1:36:A:LYS:HE2	3	1.77
(1,1941)	1:70:A:LYS:HG2	1:36:A:LYS:HE2	7	1.77
(1,1941)	1:70:A:LYS:HG2	1:36:A:LYS:HE2	15	1.77
(1,1878)	1:66:A:LEU:HD22	1:61:A:PHE:HZ	4	1.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1817)	1:79:A:LEU:HD23	1:77:A:VAL:HG23	18	1.77
(1,1806)	1:127:A:VAL:HG23	1:164:A:ILE:HG12	13	1.77
(1,1806)	1:127:A:VAL:HG21	1:164:A:ILE:HG12	15	1.77
(1,1623)	1:43:A:ILE:HG21	1:66:A:LEU:HD12	5	1.77
(1,1616)	1:171:A:ILE:HG21	1:124:A:LYS:HG3	12	1.77
(1,466)	1:99:A:VAL:HG22	1:66:A:LEU:HA	17	1.77
(1,462)	1:94:A:LEU:HD22	1:93:A:LEU:H	1	1.77
(1,448)	1:30:A:LYS:HE2	1:31:A:VAL:HG12	1	1.77
(1,448)	1:30:A:LYS:HE2	1:31:A:VAL:HG12	7	1.77
(1,448)	1:30:A:LYS:HE2	1:31:A:VAL:HG13	8	1.77
(1,448)	1:30:A:LYS:HE2	1:31:A:VAL:HG12	11	1.77
(1,3480)	1:34:A:TYR:HD1	1:31:A:VAL:HG11	3	1.76
(1,3414)	1:137:A:LEU:HD23	1:127:A:VAL:HB	14	1.76
(1,3379)	1:101:A:LEU:HG	1:92:A:VAL:HG11	12	1.76
(1,3379)	1:101:A:LEU:HG	1:92:A:VAL:HG12	15	1.76
(1,2640)	1:128:A:ARG:HA	1:138:A:PHE:HB3	7	1.76
(1,2640)	1:128:A:ARG:HA	1:138:A:PHE:HB3	8	1.76
(1,2640)	1:128:A:ARG:HA	1:138:A:PHE:HB3	14	1.76
(1,2536)	1:97:A:ILE:HB	1:99:A:VAL:HG23	5	1.76
(1,2480)	1:69:A:LYS:HE3	1:97:A:ILE:HG13	14	1.76
(1,1987)	1:174:A:LEU:HD11	1:125:A:LEU:HD21	16	1.76
(1,1987)	1:174:A:LEU:HD12	1:125:A:LEU:HD22	18	1.76
(1,1879)	1:67:A:LYS:H	1:66:A:LEU:HD22	20	1.76
(1,1878)	1:66:A:LEU:HD21	1:61:A:PHE:HZ	11	1.76
(1,1759)	1:99:A:VAL:HG11	1:101:A:LEU:HD21	20	1.76
(1,1734)	1:130:A:VAL:HG13	1:138:A:PHE:HZ	17	1.76
(1,766)	1:80:A:LYS:H	1:79:A:LEU:HD22	19	1.76
(1,766)	1:80:A:LYS:H	1:79:A:LEU:HD21	20	1.76
(1,448)	1:30:A:LYS:HE2	1:31:A:VAL:HG11	18	1.76
(1,416)	1:18:A:SER:HA	1:24:A:ILE:HD12	10	1.76
(1,3480)	1:34:A:TYR:HD1	1:31:A:VAL:HG11	12	1.75
(1,3015)	1:151:A:GLU:HG2	1:80:A:LYS:HB3	19	1.75
(1,2919)	1:141:A:SER:HB2	1:56:A:LYS:HD3	4	1.75
(1,2919)	1:141:A:SER:HB2	1:56:A:LYS:HD3	12	1.75
(1,2640)	1:128:A:ARG:HA	1:138:A:PHE:HB3	12	1.75
(1,2070)	1:125:A:LEU:HD21	1:98:A:LEU:HD11	13	1.75
(1,1927)	1:19:A:LEU:HD12	1:11:A:GLU:HA	18	1.75
(1,1806)	1:127:A:VAL:HG22	1:164:A:ILE:HG12	9	1.75
(1,1759)	1:99:A:VAL:HG12	1:101:A:LEU:HD22	2	1.75
(1,1759)	1:99:A:VAL:HG13	1:101:A:LEU:HD22	3	1.75
(1,1734)	1:130:A:VAL:HG11	1:138:A:PHE:HZ	11	1.75
(1,1623)	1:43:A:ILE:HG22	1:66:A:LEU:HD13	14	1.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,766)	1:80:A:LYS:H	1:79:A:LEU:HD21	14	1.75
(1,466)	1:99:A:VAL:HG22	1:66:A:LEU:HA	13	1.75
(1,448)	1:30:A:LYS:HE2	1:31:A:VAL:HG11	4	1.75
(1,253)	1:115:A:GLN:HG2	1:113:A:LEU:HB2	3	1.75
(1,3523)	1:130:A:VAL:HG12	1:132:A:HIS:HD2	20	1.74
(1,3480)	1:34:A:TYR:HD1	1:31:A:VAL:HG11	7	1.74
(1,3379)	1:101:A:LEU:HG	1:92:A:VAL:HG13	14	1.74
(1,2640)	1:128:A:ARG:HA	1:138:A:PHE:HB3	2	1.74
(1,2536)	1:97:A:ILE:HB	1:99:A:VAL:HG23	3	1.74
(1,2389)	1:151:A:GLU:HG3	1:150:A:VAL:HG13	19	1.74
(1,2070)	1:125:A:LEU:HD23	1:98:A:LEU:HD13	6	1.74
(1,1879)	1:67:A:LYS:H	1:66:A:LEU:HD21	17	1.74
(1,1879)	1:67:A:LYS:H	1:66:A:LEU:HD23	19	1.74
(1,1878)	1:66:A:LEU:HD21	1:61:A:PHE:HZ	20	1.74
(1,1817)	1:79:A:LEU:HD21	1:77:A:VAL:HG23	2	1.74
(1,1817)	1:79:A:LEU:HD21	1:77:A:VAL:HG23	5	1.74
(1,1817)	1:79:A:LEU:HD23	1:77:A:VAL:HG21	19	1.74
(1,1759)	1:99:A:VAL:HG13	1:101:A:LEU:HD22	13	1.74
(1,1757)	1:99:A:VAL:HG23	1:92:A:VAL:HB	4	1.74
(1,1757)	1:99:A:VAL:HG21	1:92:A:VAL:HB	13	1.74
(1,1735)	1:130:A:VAL:HG11	1:138:A:PHE:HE1	15	1.74
(1,766)	1:80:A:LYS:H	1:79:A:LEU:HD23	5	1.74
(1,500)	1:163:A:TRP:HE3	1:137:A:LEU:HD11	2	1.74
(1,448)	1:30:A:LYS:HE2	1:31:A:VAL:HG12	9	1.74
(1,248)	1:165:A:GLN:HG3	1:166:A:ILE:HG23	9	1.74
(1,132)	1:66:A:LEU:HD22	1:110:A:PHE:HD1	8	1.74
(1,132)	1:66:A:LEU:HD23	1:110:A:PHE:HD1	20	1.74
(1,3480)	1:34:A:TYR:HD1	1:31:A:VAL:HG12	6	1.73
(1,3480)	1:34:A:TYR:HD1	1:31:A:VAL:HG11	17	1.73
(1,3414)	1:137:A:LEU:HD21	1:127:A:VAL:HB	20	1.73
(1,3379)	1:101:A:LEU:HG	1:92:A:VAL:HG12	9	1.73
(1,3016)	1:151:A:GLU:HG2	1:150:A:VAL:HG13	5	1.73
(1,2640)	1:128:A:ARG:HA	1:138:A:PHE:HB3	1	1.73
(1,2536)	1:97:A:ILE:HB	1:99:A:VAL:HG23	12	1.73
(1,2534)	1:84:A:GLY:HA3	1:85:A:ARG:HG3	8	1.73
(1,2534)	1:84:A:GLY:HA3	1:85:A:ARG:HG3	12	1.73
(1,2480)	1:69:A:LYS:HE3	1:97:A:ILE:HG13	12	1.73
(1,2120)	1:137:A:LEU:HD11	1:163:A:TRP:HB2	6	1.73
(1,1879)	1:67:A:LYS:H	1:66:A:LEU:HD22	16	1.73
(1,1817)	1:79:A:LEU:HD22	1:77:A:VAL:HG23	6	1.73
(1,1806)	1:127:A:VAL:HG22	1:164:A:ILE:HG12	7	1.73
(1,1759)	1:99:A:VAL:HG11	1:101:A:LEU:HD22	5	1.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1759)	1:99:A:VAL:HG12	1:101:A:LEU:HD23	15	1.73
(1,1757)	1:99:A:VAL:HG21	1:92:A:VAL:HB	3	1.73
(1,1735)	1:130:A:VAL:HG11	1:138:A:PHE:HE1	4	1.73
(1,766)	1:80:A:LYS:H	1:79:A:LEU:HD23	16	1.73
(1,448)	1:30:A:LYS:HE2	1:31:A:VAL:HG12	3	1.73
(1,35)	1:119:A:VAL:H	1:120:A:ILE:HG13	6	1.73
(2,20)	1:154:A:ALA:H	1:135:A:LYS:O	17	1.72
(1,3414)	1:137:A:LEU:HD23	1:127:A:VAL:HB	5	1.72
(1,2640)	1:128:A:ARG:HA	1:138:A:PHE:HB3	3	1.72
(1,2640)	1:128:A:ARG:HA	1:138:A:PHE:HB3	11	1.72
(1,2640)	1:128:A:ARG:HA	1:138:A:PHE:HB3	15	1.72
(1,2640)	1:128:A:ARG:HA	1:138:A:PHE:HB3	16	1.72
(1,2536)	1:97:A:ILE:HB	1:99:A:VAL:HG23	7	1.72
(1,2534)	1:84:A:GLY:HA3	1:85:A:ARG:HG3	9	1.72
(1,2480)	1:69:A:LYS:HE3	1:97:A:ILE:HG13	5	1.72
(1,2463)	1:87:A:LYS:HE2	1:79:A:LEU:HD13	20	1.72
(1,2364)	1:134:A:GLU:HG2	1:157:A:LYS:HB3	17	1.72
(1,2065)	1:139:A:LEU:HD21	1:137:A:LEU:HD22	13	1.72
(1,1987)	1:174:A:LEU:HD11	1:125:A:LEU:HD23	12	1.72
(1,1941)	1:70:A:LYS:HG2	1:36:A:LYS:HE2	12	1.72
(1,1927)	1:19:A:LEU:HD13	1:11:A:GLU:HA	10	1.72
(1,1817)	1:79:A:LEU:HD21	1:77:A:VAL:HG23	9	1.72
(1,1806)	1:127:A:VAL:HG22	1:164:A:ILE:HG12	5	1.72
(1,1759)	1:99:A:VAL:HG13	1:101:A:LEU:HD21	11	1.72
(1,1759)	1:99:A:VAL:HG13	1:101:A:LEU:HD21	12	1.72
(1,1757)	1:99:A:VAL:HG23	1:92:A:VAL:HB	9	1.72
(1,1757)	1:99:A:VAL:HG22	1:92:A:VAL:HB	10	1.72
(1,1702)	1:92:A:VAL:HG13	1:101:A:LEU:HD12	7	1.72
(1,1623)	1:43:A:ILE:HG22	1:66:A:LEU:HD13	9	1.72
(1,466)	1:99:A:VAL:HG21	1:66:A:LEU:HA	4	1.72
(1,466)	1:99:A:VAL:HG22	1:66:A:LEU:HA	7	1.72
(1,197)	1:68:A:ARG:HG2	1:67:A:LYS:HE2	4	1.72
(1,3379)	1:101:A:LEU:HG	1:92:A:VAL:HG12	6	1.71
(1,3379)	1:101:A:LEU:HG	1:92:A:VAL:HG13	7	1.71
(1,3379)	1:101:A:LEU:HG	1:92:A:VAL:HG13	10	1.71
(1,3379)	1:101:A:LEU:HG	1:92:A:VAL:HG12	18	1.71
(1,3006)	1:22:A:ASP:HA	1:15:A:GLN:HB2	16	1.71
(1,3003)	1:150:A:VAL:HG23	1:100:A:PHE:HZ	18	1.71
(1,2818)	1:76:A:SER:HB3	1:78:A:PHE:HE1	9	1.71
(1,2640)	1:128:A:ARG:HA	1:138:A:PHE:HB3	4	1.71
(1,2070)	1:125:A:LEU:HD21	1:98:A:LEU:HD13	4	1.71
(1,1987)	1:174:A:LEU:HD12	1:125:A:LEU:HD23	11	1.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1879)	1:67:A:LYS:H	1:66:A:LEU:HD22	3	1.71
(1,1817)	1:79:A:LEU:HD21	1:77:A:VAL:HG22	17	1.71
(1,1759)	1:99:A:VAL:HG13	1:101:A:LEU:HD22	6	1.71
(1,1640)	1:82:A:ALA:HB2	1:81:A:ASN:HB3	14	1.71
(1,766)	1:80:A:LYS:H	1:79:A:LEU:HD23	9	1.71
(1,448)	1:30:A:LYS:HE2	1:31:A:VAL:HG12	15	1.71
(1,132)	1:66:A:LEU:HD21	1:110:A:PHE:HD1	18	1.71
(1,35)	1:119:A:VAL:H	1:120:A:ILE:HG13	7	1.71
(1,3414)	1:137:A:LEU:HD22	1:127:A:VAL:HB	1	1.7
(1,3414)	1:137:A:LEU:HD21	1:127:A:VAL:HB	10	1.7
(1,3379)	1:101:A:LEU:HG	1:92:A:VAL:HG11	13	1.7
(1,3176)	1:159:A:GLU:HG3	1:155:A:SER:HB2	1	1.7
(1,2818)	1:76:A:SER:HB3	1:78:A:PHE:HE1	17	1.7
(1,2640)	1:128:A:ARG:HA	1:138:A:PHE:HB3	17	1.7
(1,2364)	1:134:A:GLU:HG2	1:157:A:LYS:HB3	18	1.7
(1,2120)	1:137:A:LEU:HD13	1:163:A:TRP:HB2	18	1.7
(1,2068)	1:137:A:LEU:HD23	1:129:A:GLU:HA	10	1.7
(1,1987)	1:174:A:LEU:HD11	1:125:A:LEU:HD22	1	1.7
(1,1830)	1:118:A:THR:HG23	1:79:A:LEU:HD13	15	1.7
(1,1734)	1:130:A:VAL:HG11	1:138:A:PHE:HZ	15	1.7
(1,1432)	1:58:A:GLY:H	1:59:A:GLN:HB2	19	1.7
(1,3523)	1:130:A:VAL:HG12	1:132:A:HIS:HD2	16	1.69
(1,3414)	1:137:A:LEU:HD22	1:127:A:VAL:HB	15	1.69
(1,3414)	1:137:A:LEU:HD23	1:127:A:VAL:HB	16	1.69
(1,3414)	1:137:A:LEU:HD21	1:127:A:VAL:HB	17	1.69
(1,3413)	1:42:A:GLU:HB3	1:43:A:ILE:HG21	12	1.69
(1,3413)	1:42:A:GLU:HB3	1:43:A:ILE:HG22	17	1.69
(1,3166)	1:152:A:VAL:HG11	1:79:A:LEU:HD23	8	1.69
(1,3016)	1:151:A:GLU:HG2	1:150:A:VAL:HG11	7	1.69
(1,2364)	1:134:A:GLU:HG2	1:157:A:LYS:HB3	15	1.69
(1,2192)	1:15:A:GLN:HB2	1:18:A:SER:HA	11	1.69
(1,2120)	1:137:A:LEU:HD12	1:163:A:TRP:HB2	3	1.69
(1,1757)	1:99:A:VAL:HG21	1:92:A:VAL:HB	12	1.69
(1,1735)	1:130:A:VAL:HG12	1:138:A:PHE:HE1	20	1.69
(1,1623)	1:43:A:ILE:HG22	1:66:A:LEU:HD13	4	1.69
(1,448)	1:30:A:LYS:HE2	1:31:A:VAL:HG12	16	1.69
(1,248)	1:165:A:GLN:HG3	1:166:A:ILE:HG21	14	1.69
(1,35)	1:119:A:VAL:H	1:120:A:ILE:HG13	16	1.69
(1,3414)	1:137:A:LEU:HD21	1:127:A:VAL:HB	4	1.68
(1,3379)	1:101:A:LEU:HG	1:92:A:VAL:HG13	4	1.68
(1,3016)	1:151:A:GLU:HG2	1:150:A:VAL:HG12	3	1.68
(1,3016)	1:151:A:GLU:HG2	1:150:A:VAL:HG12	9	1.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3015)	1:151:A:GLU:HG2	1:80:A:LYS:HB3	4	1.68
(1,3015)	1:151:A:GLU:HG2	1:80:A:LYS:HB3	10	1.68
(1,3003)	1:150:A:VAL:HG22	1:100:A:PHE:HZ	1	1.68
(1,3003)	1:150:A:VAL:HG23	1:100:A:PHE:HZ	5	1.68
(1,3003)	1:150:A:VAL:HG21	1:100:A:PHE:HZ	7	1.68
(1,3003)	1:150:A:VAL:HG21	1:100:A:PHE:HZ	11	1.68
(1,2640)	1:128:A:ARG:HA	1:138:A:PHE:HB3	18	1.68
(1,2536)	1:97:A:ILE:HB	1:99:A:VAL:HG22	4	1.68
(1,2536)	1:97:A:ILE:HB	1:99:A:VAL:HG22	9	1.68
(1,2534)	1:84:A:GLY:HA3	1:85:A:ARG:HG3	3	1.68
(1,2534)	1:84:A:GLY:HA3	1:85:A:ARG:HG3	19	1.68
(1,2251)	1:11:A:GLU:HB2	1:19:A:LEU:HD12	18	1.68
(1,2065)	1:139:A:LEU:HD22	1:137:A:LEU:HD21	6	1.68
(1,1987)	1:174:A:LEU:HD12	1:125:A:LEU:HD21	15	1.68
(1,1927)	1:19:A:LEU:HD13	1:11:A:GLU:HA	9	1.68
(1,1927)	1:19:A:LEU:HD12	1:11:A:GLU:HA	13	1.68
(1,1817)	1:79:A:LEU:HD22	1:77:A:VAL:HG22	14	1.68
(1,1759)	1:99:A:VAL:HG13	1:101:A:LEU:HD21	1	1.68
(1,1759)	1:99:A:VAL:HG13	1:101:A:LEU:HD23	19	1.68
(1,1735)	1:130:A:VAL:HG11	1:138:A:PHE:HE1	11	1.68
(1,1734)	1:130:A:VAL:HG11	1:138:A:PHE:HZ	10	1.68
(1,1734)	1:130:A:VAL:HG11	1:138:A:PHE:HZ	13	1.68
(1,1623)	1:43:A:ILE:HG21	1:66:A:LEU:HD13	3	1.68
(1,1623)	1:43:A:ILE:HG23	1:66:A:LEU:HD11	17	1.68
(1,500)	1:163:A:TRP:HE3	1:137:A:LEU:HD12	18	1.68
(1,3523)	1:130:A:VAL:HG12	1:132:A:HIS:HD2	2	1.67
(1,3523)	1:130:A:VAL:HG11	1:132:A:HIS:HD2	7	1.67
(1,3468)	1:138:A:PHE:HD1	1:151:A:GLU:HG3	19	1.67
(1,3015)	1:151:A:GLU:HG2	1:80:A:LYS:HB3	3	1.67
(1,2919)	1:141:A:SER:HB2	1:56:A:LYS:HD3	7	1.67
(1,2818)	1:76:A:SER:HB3	1:78:A:PHE:HE1	14	1.67
(1,2534)	1:84:A:GLY:HA3	1:85:A:ARG:HG3	20	1.67
(1,2364)	1:134:A:GLU:HG2	1:157:A:LYS:HB3	8	1.67
(1,1935)	1:56:A:LYS:HG2	1:121:A:SER:HB2	9	1.67
(1,1879)	1:67:A:LYS:H	1:66:A:LEU:HD22	11	1.67
(1,1810)	1:127:A:VAL:HG22	1:168:A:GLN:H	20	1.67
(1,1806)	1:127:A:VAL:HG22	1:164:A:ILE:HG12	1	1.67
(1,1759)	1:99:A:VAL:HG12	1:101:A:LEU:HD23	7	1.67
(1,1757)	1:99:A:VAL:HG23	1:92:A:VAL:HB	8	1.67
(1,1734)	1:130:A:VAL:HG12	1:138:A:PHE:HZ	2	1.67
(1,1734)	1:130:A:VAL:HG13	1:138:A:PHE:HZ	14	1.67
(1,1432)	1:58:A:GLY:H	1:59:A:GLN:HB2	3	1.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,766)	1:80:A:LYS:H	1:79:A:LEU:HD23	3	1.67
(1,132)	1:66:A:LEU:HD23	1:110:A:PHE:HD1	5	1.67
(1,15)	1:128:A:ARG:H	1:126:A:ILE:HD12	13	1.67
(1,3523)	1:130:A:VAL:HG11	1:132:A:HIS:HD2	6	1.66
(1,3414)	1:137:A:LEU:HD22	1:127:A:VAL:HB	2	1.66
(1,3414)	1:137:A:LEU:HD22	1:127:A:VAL:HB	7	1.66
(1,3413)	1:42:A:GLU:HB3	1:43:A:ILE:HG22	2	1.66
(1,3413)	1:42:A:GLU:HB3	1:43:A:ILE:HG21	9	1.66
(1,3252)	1:99:A:VAL:HG13	1:110:A:PHE:HZ	6	1.66
(1,3016)	1:151:A:GLU:HG2	1:150:A:VAL:HG11	15	1.66
(1,3016)	1:151:A:GLU:HG2	1:150:A:VAL:HG13	19	1.66
(1,2841)	1:16:A:SER:HB2	1:3:A:THR:HB	8	1.66
(1,2536)	1:97:A:ILE:HB	1:99:A:VAL:HG23	16	1.66
(1,2480)	1:69:A:LYS:HE3	1:97:A:ILE:HG13	8	1.66
(1,2460)	1:96:A:ASP:HB3	1:94:A:LEU:HB2	2	1.66
(1,2460)	1:96:A:ASP:HB3	1:94:A:LEU:HB2	17	1.66
(1,2120)	1:137:A:LEU:HD12	1:163:A:TRP:HB2	4	1.66
(1,2120)	1:137:A:LEU:HD11	1:163:A:TRP:HB2	12	1.66
(1,1935)	1:56:A:LYS:HG2	1:121:A:SER:HB2	1	1.66
(1,1935)	1:56:A:LYS:HG2	1:121:A:SER:HB2	8	1.66
(1,1823)	1:79:A:LEU:HD23	1:100:A:PHE:HZ	11	1.66
(1,1817)	1:79:A:LEU:HD23	1:77:A:VAL:HG21	15	1.66
(1,1759)	1:99:A:VAL:HG11	1:101:A:LEU:HD23	18	1.66
(1,1757)	1:99:A:VAL:HG21	1:92:A:VAL:HB	2	1.66
(1,248)	1:165:A:GLN:HG3	1:166:A:ILE:HG22	4	1.66
(2,16)	1:137:A:LEU:H	1:135:A:LYS:O	8	1.65
(1,3413)	1:42:A:GLU:HB3	1:43:A:ILE:HG23	3	1.65
(1,3413)	1:42:A:GLU:HB3	1:43:A:ILE:HG22	6	1.65
(1,3379)	1:101:A:LEU:HG	1:92:A:VAL:HG12	20	1.65
(1,3176)	1:159:A:GLU:HG3	1:155:A:SER:HB2	3	1.65
(1,2919)	1:141:A:SER:HB2	1:56:A:LYS:HD3	10	1.65
(1,2536)	1:97:A:ILE:HB	1:99:A:VAL:HG23	17	1.65
(1,2534)	1:84:A:GLY:HA3	1:85:A:ARG:HG3	1	1.65
(1,2534)	1:84:A:GLY:HA3	1:85:A:ARG:HG3	11	1.65
(1,2534)	1:84:A:GLY:HA3	1:85:A:ARG:HG3	13	1.65
(1,2460)	1:96:A:ASP:HB3	1:94:A:LEU:HB2	4	1.65
(1,2460)	1:96:A:ASP:HB3	1:94:A:LEU:HB2	5	1.65
(1,2120)	1:137:A:LEU:HD12	1:163:A:TRP:HB2	20	1.65
(1,1987)	1:174:A:LEU:HD11	1:125:A:LEU:HD23	3	1.65
(1,1844)	1:170:A:THR:HG23	1:122:A:LEU:HD23	1	1.65
(1,1823)	1:79:A:LEU:HD23	1:100:A:PHE:HZ	14	1.65
(1,1810)	1:127:A:VAL:HG22	1:168:A:GLN:H	7	1.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1810)	1:127:A:VAL:HG22	1:168:A:GLN:H	8	1.65
(1,1806)	1:127:A:VAL:HG23	1:164:A:ILE:HG12	19	1.65
(1,1757)	1:99:A:VAL:HG21	1:92:A:VAL:HB	6	1.65
(1,1757)	1:99:A:VAL:HG23	1:92:A:VAL:HB	14	1.65
(1,1757)	1:99:A:VAL:HG21	1:92:A:VAL:HB	17	1.65
(1,1735)	1:130:A:VAL:HG11	1:138:A:PHE:HE1	6	1.65
(1,1735)	1:130:A:VAL:HG13	1:138:A:PHE:HE1	10	1.65
(1,1734)	1:130:A:VAL:HG12	1:138:A:PHE:HZ	16	1.65
(1,466)	1:99:A:VAL:HG22	1:66:A:LEU:HA	1	1.65
(1,132)	1:66:A:LEU:HD23	1:110:A:PHE:HD1	16	1.65
(1,3379)	1:101:A:LEU:HG	1:92:A:VAL:HG11	2	1.64
(1,3252)	1:99:A:VAL:HG13	1:110:A:PHE:HZ	19	1.64
(1,3016)	1:151:A:GLU:HG2	1:150:A:VAL:HG12	6	1.64
(1,3016)	1:151:A:GLU:HG2	1:150:A:VAL:HG11	10	1.64
(1,3016)	1:151:A:GLU:HG2	1:150:A:VAL:HG13	17	1.64
(1,3015)	1:151:A:GLU:HG2	1:80:A:LYS:HB3	13	1.64
(1,2963)	1:65:A:ASP:HB3	1:66:A:LEU:HB3	18	1.64
(1,2536)	1:97:A:ILE:HB	1:99:A:VAL:HG23	6	1.64
(1,2536)	1:97:A:ILE:HB	1:99:A:VAL:HG22	14	1.64
(1,2534)	1:84:A:GLY:HA3	1:85:A:ARG:HG3	7	1.64
(1,2534)	1:84:A:GLY:HA3	1:85:A:ARG:HG3	15	1.64
(1,2534)	1:84:A:GLY:HA3	1:85:A:ARG:HG3	18	1.64
(1,2155)	1:107:A:LYS:HD3	1:48:A:ASP:HA	10	1.64
(1,2043)	1:79:A:LEU:HD11	1:113:A:LEU:HD12	18	1.64
(1,1987)	1:174:A:LEU:HD11	1:125:A:LEU:HD23	17	1.64
(1,1927)	1:19:A:LEU:HD13	1:11:A:GLU:HA	2	1.64
(1,1878)	1:66:A:LEU:HD22	1:61:A:PHE:HZ	7	1.64
(1,1817)	1:79:A:LEU:HD21	1:77:A:VAL:HG23	3	1.64
(1,1735)	1:130:A:VAL:HG13	1:138:A:PHE:HE1	9	1.64
(1,1734)	1:130:A:VAL:HG11	1:138:A:PHE:HZ	7	1.64
(1,1623)	1:43:A:ILE:HG23	1:66:A:LEU:HD11	6	1.64
(1,1623)	1:43:A:ILE:HG22	1:66:A:LEU:HD11	12	1.64
(1,374)	1:33:A:SER:HB2	1:30:A:LYS:HE3	20	1.64
(1,210)	1:70:A:LYS:HD2	1:8:A:VAL:HG13	10	1.64
(1,132)	1:66:A:LEU:HD22	1:110:A:PHE:HD1	9	1.64
(1,132)	1:66:A:LEU:HD22	1:110:A:PHE:HD1	15	1.64
(1,3252)	1:99:A:VAL:HG13	1:110:A:PHE:HZ	12	1.63
(1,2919)	1:141:A:SER:HB2	1:56:A:LYS:HD3	13	1.63
(1,2536)	1:97:A:ILE:HB	1:99:A:VAL:HG21	18	1.63
(1,2534)	1:84:A:GLY:HA3	1:85:A:ARG:HG3	5	1.63
(1,2460)	1:96:A:ASP:HB3	1:94:A:LEU:HB2	11	1.63
(1,2364)	1:134:A:GLU:HG2	1:157:A:LYS:HB3	3	1.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2120)	1:137:A:LEU:HD13	1:163:A:TRP:HB2	9	1.63
(1,2120)	1:137:A:LEU:HD11	1:163:A:TRP:HB2	15	1.63
(1,2068)	1:137:A:LEU:HD22	1:129:A:GLU:HA	5	1.63
(1,2043)	1:79:A:LEU:HD11	1:113:A:LEU:HD11	11	1.63
(1,1987)	1:174:A:LEU:HD12	1:125:A:LEU:HD23	10	1.63
(1,1817)	1:79:A:LEU:HD21	1:77:A:VAL:HG22	13	1.63
(1,1810)	1:127:A:VAL:HG22	1:168:A:GLN:H	5	1.63
(1,1810)	1:127:A:VAL:HG23	1:168:A:GLN:H	16	1.63
(1,1806)	1:127:A:VAL:HG23	1:164:A:ILE:HG12	18	1.63
(1,1735)	1:130:A:VAL:HG13	1:138:A:PHE:HE1	5	1.63
(1,1734)	1:130:A:VAL:HG11	1:138:A:PHE:HZ	4	1.63
(1,1432)	1:58:A:GLY:H	1:59:A:GLN:HB2	12	1.63
(1,1432)	1:58:A:GLY:H	1:59:A:GLN:HB2	13	1.63
(1,1432)	1:58:A:GLY:H	1:59:A:GLN:HB2	20	1.63
(1,248)	1:165:A:GLN:HG3	1:166:A:ILE:HG21	18	1.63
(1,62)	1:4:A:LYS:H	1:2:A:MET:HG2	3	1.63
(1,3414)	1:137:A:LEU:HD22	1:127:A:VAL:HB	11	1.62
(1,3413)	1:42:A:GLU:HB3	1:43:A:ILE:HG21	1	1.62
(1,3413)	1:42:A:GLU:HB3	1:43:A:ILE:HG21	13	1.62
(1,3252)	1:99:A:VAL:HG13	1:110:A:PHE:HZ	14	1.62
(1,2534)	1:84:A:GLY:HA3	1:85:A:ARG:HG3	2	1.62
(1,2534)	1:84:A:GLY:HA3	1:85:A:ARG:HG3	17	1.62
(1,2460)	1:96:A:ASP:HB3	1:94:A:LEU:HB2	14	1.62
(1,2389)	1:151:A:GLU:HG3	1:150:A:VAL:HG13	13	1.62
(1,2364)	1:134:A:GLU:HG2	1:157:A:LYS:HB3	5	1.62
(1,2364)	1:134:A:GLU:HG2	1:157:A:LYS:HB3	7	1.62
(1,2120)	1:137:A:LEU:HD11	1:163:A:TRP:HB2	13	1.62
(1,1854)	1:62:A:ALA:HB1	1:52:A:ILE:HG13	1	1.62
(1,1844)	1:170:A:THR:HG21	1:122:A:LEU:HD23	5	1.62
(1,1823)	1:79:A:LEU:HD22	1:100:A:PHE:HZ	3	1.62
(1,1823)	1:79:A:LEU:HD23	1:100:A:PHE:HZ	7	1.62
(1,1810)	1:127:A:VAL:HG22	1:168:A:GLN:H	17	1.62
(1,1757)	1:99:A:VAL:HG21	1:92:A:VAL:HB	16	1.62
(1,1757)	1:99:A:VAL:HG22	1:92:A:VAL:HB	20	1.62
(1,1735)	1:130:A:VAL:HG11	1:138:A:PHE:HE1	3	1.62
(1,1734)	1:130:A:VAL:HG13	1:138:A:PHE:HZ	9	1.62
(1,1623)	1:43:A:ILE:HG21	1:66:A:LEU:HD12	8	1.62
(1,1432)	1:58:A:GLY:H	1:59:A:GLN:HB2	1	1.62
(1,1432)	1:58:A:GLY:H	1:59:A:GLN:HB2	14	1.62
(1,1030)	1:138:A:PHE:H	1:130:A:VAL:HG22	5	1.62
(1,248)	1:165:A:GLN:HG3	1:166:A:ILE:HG22	6	1.62
(1,132)	1:66:A:LEU:HD21	1:110:A:PHE:HD1	4	1.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,132)	1:66:A:LEU:HD23	1:110:A:PHE:HD1	11	1.62
(1,3510)	1:103:A:GLU:HG2	1:108:A:TYR:HE1	18	1.61
(1,3480)	1:34:A:TYR:HD2	1:31:A:VAL:HG12	8	1.61
(1,3414)	1:137:A:LEU:HD22	1:127:A:VAL:HB	18	1.61
(1,3413)	1:42:A:GLU:HB3	1:43:A:ILE:HG22	20	1.61
(1,3379)	1:101:A:LEU:HG	1:92:A:VAL:HG11	8	1.61
(1,3252)	1:99:A:VAL:HG12	1:110:A:PHE:HZ	2	1.61
(1,3016)	1:151:A:GLU:HG2	1:150:A:VAL:HG12	11	1.61
(1,3015)	1:151:A:GLU:HG2	1:80:A:LYS:HB3	11	1.61
(1,3015)	1:151:A:GLU:HG2	1:80:A:LYS:HB3	14	1.61
(1,3015)	1:151:A:GLU:HG2	1:80:A:LYS:HB3	17	1.61
(1,3006)	1:22:A:ASP:HA	1:15:A:GLN:HB2	11	1.61
(1,2919)	1:141:A:SER:HB2	1:56:A:LYS:HD3	9	1.61
(1,2837)	1:141:A:SER:HB2	1:144:A:MET:HE1	10	1.61
(1,2710)	1:178:A:GLU:HA	1:177:A:ASP:HB2	9	1.61
(1,2536)	1:97:A:ILE:HB	1:99:A:VAL:HG21	10	1.61
(1,2536)	1:97:A:ILE:HB	1:99:A:VAL:HG23	19	1.61
(1,2460)	1:96:A:ASP:HB3	1:94:A:LEU:HB2	7	1.61
(1,2460)	1:96:A:ASP:HB3	1:94:A:LEU:HB2	10	1.61
(1,2364)	1:134:A:GLU:HG2	1:157:A:LYS:HB3	2	1.61
(1,2155)	1:107:A:LYS:HD3	1:48:A:ASP:HA	7	1.61
(1,2155)	1:107:A:LYS:HD3	1:48:A:ASP:HA	14	1.61
(1,2120)	1:137:A:LEU:HD11	1:163:A:TRP:HB2	14	1.61
(1,2068)	1:137:A:LEU:HD23	1:129:A:GLU:HA	20	1.61
(1,1854)	1:62:A:ALA:HB2	1:52:A:ILE:HG13	6	1.61
(1,1854)	1:62:A:ALA:HB3	1:52:A:ILE:HG13	20	1.61
(1,1823)	1:79:A:LEU:HD23	1:100:A:PHE:HZ	6	1.61
(1,1823)	1:79:A:LEU:HD21	1:100:A:PHE:HZ	19	1.61
(1,1810)	1:127:A:VAL:HG23	1:168:A:GLN:H	12	1.61
(1,1806)	1:127:A:VAL:HG23	1:164:A:ILE:HG12	4	1.61
(1,1806)	1:127:A:VAL:HG22	1:164:A:ILE:HG12	8	1.61
(1,1757)	1:99:A:VAL:HG23	1:92:A:VAL:HB	11	1.61
(1,1735)	1:130:A:VAL:HG11	1:138:A:PHE:HE1	1	1.61
(1,1623)	1:43:A:ILE:HG22	1:66:A:LEU:HD11	10	1.61
(1,1623)	1:43:A:ILE:HG23	1:66:A:LEU:HD11	20	1.61
(1,1432)	1:58:A:GLY:H	1:59:A:GLN:HB2	16	1.61
(1,1030)	1:138:A:PHE:H	1:130:A:VAL:HG21	19	1.61
(1,500)	1:163:A:TRP:HE3	1:137:A:LEU:HD13	15	1.61
(1,208)	1:93:A:LEU:HD22	1:73:A:ARG:HB2	6	1.61
(1,3510)	1:103:A:GLU:HG2	1:108:A:TYR:HE1	17	1.6
(1,3413)	1:42:A:GLU:HB3	1:43:A:ILE:HG22	7	1.6
(1,3413)	1:42:A:GLU:HB3	1:43:A:ILE:HG21	14	1.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3413)	1:42:A:GLU:HB3	1:43:A:ILE:HG23	15	1.6
(1,3379)	1:101:A:LEU:HG	1:92:A:VAL:HG13	11	1.6
(1,3252)	1:99:A:VAL:HG13	1:110:A:PHE:HZ	13	1.6
(1,3015)	1:151:A:GLU:HG2	1:80:A:LYS:HB3	7	1.6
(1,2999)	1:29:A:SER:HB3	1:21:A:LYS:HB2	3	1.6
(1,2710)	1:178:A:GLU:HA	1:177:A:ASP:HB2	13	1.6
(1,2710)	1:178:A:GLU:HA	1:177:A:ASP:HB2	18	1.6
(1,2609)	1:107:A:LYS:HA	1:46:A:LYS:HD3	11	1.6
(1,2534)	1:84:A:GLY:HA3	1:85:A:ARG:HG3	14	1.6
(1,2460)	1:96:A:ASP:HB3	1:94:A:LEU:HB2	8	1.6
(1,2043)	1:79:A:LEU:HD13	1:113:A:LEU:HD12	1	1.6
(1,1854)	1:62:A:ALA:HB2	1:52:A:ILE:HG13	5	1.6
(1,1854)	1:62:A:ALA:HB2	1:52:A:ILE:HG13	10	1.6
(1,1854)	1:62:A:ALA:HB1	1:52:A:ILE:HG13	11	1.6
(1,1854)	1:62:A:ALA:HB2	1:52:A:ILE:HG13	15	1.6
(1,1854)	1:62:A:ALA:HB1	1:52:A:ILE:HG13	18	1.6
(1,1823)	1:79:A:LEU:HD21	1:100:A:PHE:HZ	1	1.6
(1,1823)	1:79:A:LEU:HD21	1:100:A:PHE:HZ	10	1.6
(1,1823)	1:79:A:LEU:HD22	1:100:A:PHE:HZ	13	1.6
(1,1806)	1:127:A:VAL:HG22	1:164:A:ILE:HG12	14	1.6
(1,1806)	1:127:A:VAL:HG23	1:164:A:ILE:HG12	16	1.6
(1,1734)	1:130:A:VAL:HG13	1:138:A:PHE:HZ	5	1.6
(1,1432)	1:58:A:GLY:H	1:59:A:GLN:HB2	6	1.6
(1,1030)	1:138:A:PHE:H	1:130:A:VAL:HG22	3	1.6
(1,248)	1:165:A:GLN:HG3	1:166:A:ILE:HG21	10	1.6
(1,132)	1:66:A:LEU:HD22	1:110:A:PHE:HD1	10	1.6
(1,132)	1:66:A:LEU:HD21	1:110:A:PHE:HD1	13	1.6
(1,3523)	1:130:A:VAL:HG11	1:132:A:HIS:HD2	11	1.59
(1,3510)	1:103:A:GLU:HG2	1:108:A:TYR:HE1	2	1.59
(1,3510)	1:103:A:GLU:HG2	1:108:A:TYR:HE1	3	1.59
(1,3510)	1:103:A:GLU:HG2	1:108:A:TYR:HE1	16	1.59
(1,3413)	1:42:A:GLU:HB3	1:43:A:ILE:HG21	4	1.59
(1,3252)	1:99:A:VAL:HG12	1:110:A:PHE:HZ	7	1.59
(1,3015)	1:151:A:GLU:HG2	1:80:A:LYS:HB3	18	1.59
(1,3003)	1:150:A:VAL:HG23	1:100:A:PHE:HZ	20	1.59
(1,2672)	1:106:A:GLN:HG3	1:105:A:ASP:HA	15	1.59
(1,2536)	1:97:A:ILE:HB	1:99:A:VAL:HG23	13	1.59
(1,2480)	1:69:A:LYS:HE3	1:97:A:ILE:HG13	11	1.59
(1,2460)	1:96:A:ASP:HB3	1:94:A:LEU:HB2	18	1.59
(1,2391)	1:151:A:GLU:HG3	1:80:A:LYS:HB3	20	1.59
(1,2043)	1:79:A:LEU:HD12	1:113:A:LEU:HD11	7	1.59
(1,1987)	1:174:A:LEU:HD11	1:125:A:LEU:HD22	2	1.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1927)	1:19:A:LEU:HD13	1:11:A:GLU:HA	1	1.59
(1,1879)	1:67:A:LYS:H	1:66:A:LEU:HD23	4	1.59
(1,1854)	1:62:A:ALA:HB1	1:52:A:ILE:HG13	2	1.59
(1,1854)	1:62:A:ALA:HB1	1:52:A:ILE:HG13	4	1.59
(1,1854)	1:62:A:ALA:HB1	1:52:A:ILE:HG13	12	1.59
(1,1823)	1:79:A:LEU:HD23	1:100:A:PHE:HZ	8	1.59
(1,1810)	1:127:A:VAL:HG22	1:168:A:GLN:H	10	1.59
(1,1810)	1:127:A:VAL:HG22	1:168:A:GLN:H	11	1.59
(1,1810)	1:127:A:VAL:HG23	1:168:A:GLN:H	13	1.59
(1,1810)	1:127:A:VAL:HG23	1:168:A:GLN:H	18	1.59
(1,1810)	1:127:A:VAL:HG23	1:168:A:GLN:H	19	1.59
(1,1806)	1:127:A:VAL:HG22	1:164:A:ILE:HG12	3	1.59
(1,1432)	1:58:A:GLY:H	1:59:A:GLN:HB2	5	1.59
(1,1432)	1:58:A:GLY:H	1:59:A:GLN:HB2	17	1.59
(1,1030)	1:138:A:PHE:H	1:130:A:VAL:HG21	17	1.59
(1,3510)	1:103:A:GLU:HG2	1:108:A:TYR:HE1	11	1.58
(1,3480)	1:34:A:TYR:HD2	1:31:A:VAL:HG12	14	1.58
(1,3468)	1:138:A:PHE:HD1	1:151:A:GLU:HG3	11	1.58
(1,3468)	1:138:A:PHE:HD1	1:151:A:GLU:HG3	18	1.58
(1,3413)	1:42:A:GLU:HB3	1:43:A:ILE:HG23	5	1.58
(1,3379)	1:101:A:LEU:HG	1:92:A:VAL:HG13	17	1.58
(1,3204)	1:101:A:LEU:HA	1:99:A:VAL:HG11	19	1.58
(1,3016)	1:151:A:GLU:HG2	1:150:A:VAL:HG13	13	1.58
(1,2999)	1:29:A:SER:HB3	1:21:A:LYS:HB2	10	1.58
(1,2919)	1:141:A:SER:HB2	1:56:A:LYS:HD3	8	1.58
(1,2825)	1:32:A:ALA:HB2	1:29:A:SER:HB2	14	1.58
(1,2710)	1:178:A:GLU:HA	1:177:A:ASP:HB2	7	1.58
(1,2480)	1:69:A:LYS:HE3	1:97:A:ILE:HG13	20	1.58
(1,2389)	1:151:A:GLU:HG3	1:150:A:VAL:HG11	20	1.58
(1,2128)	1:137:A:LEU:HD13	1:163:A:TRP:H	8	1.58
(1,2043)	1:79:A:LEU:HD12	1:113:A:LEU:HD13	8	1.58
(1,1933)	1:70:A:LYS:HG3	1:36:A:LYS:HE2	2	1.58
(1,1854)	1:62:A:ALA:HB1	1:52:A:ILE:HG13	7	1.58
(1,1854)	1:62:A:ALA:HB2	1:52:A:ILE:HG13	8	1.58
(1,1854)	1:62:A:ALA:HB3	1:52:A:ILE:HG13	14	1.58
(1,1823)	1:79:A:LEU:HD22	1:100:A:PHE:HZ	2	1.58
(1,1823)	1:79:A:LEU:HD22	1:100:A:PHE:HZ	9	1.58
(1,1817)	1:79:A:LEU:HD21	1:77:A:VAL:HG22	16	1.58
(1,1810)	1:127:A:VAL:HG22	1:168:A:GLN:H	1	1.58
(1,1810)	1:127:A:VAL:HG22	1:168:A:GLN:H	2	1.58
(1,1810)	1:127:A:VAL:HG23	1:168:A:GLN:H	4	1.58
(1,1810)	1:127:A:VAL:HG22	1:168:A:GLN:H	14	1.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1757)	1:99:A:VAL:HG21	1:92:A:VAL:HB	5	1.58
(1,1757)	1:99:A:VAL:HG21	1:92:A:VAL:HB	15	1.58
(1,1432)	1:58:A:GLY:H	1:59:A:GLN:HB2	2	1.58
(1,1432)	1:58:A:GLY:H	1:59:A:GLN:HB2	4	1.58
(1,1432)	1:58:A:GLY:H	1:59:A:GLN:HB2	10	1.58
(1,1030)	1:138:A:PHE:H	1:130:A:VAL:HG23	4	1.58
(1,373)	1:30:A:LYS:HB2	1:33:A:SER:HB2	20	1.58
(1,248)	1:165:A:GLN:HG3	1:166:A:ILE:HG21	19	1.58
(1,3523)	1:130:A:VAL:HG13	1:132:A:HIS:HD2	19	1.57
(1,3510)	1:103:A:GLU:HG2	1:108:A:TYR:HE1	4	1.57
(1,3414)	1:137:A:LEU:HD22	1:127:A:VAL:HB	13	1.57
(1,3379)	1:101:A:LEU:HG	1:92:A:VAL:HG11	16	1.57
(1,3252)	1:99:A:VAL:HG13	1:110:A:PHE:HZ	3	1.57
(1,3252)	1:99:A:VAL:HG11	1:110:A:PHE:HZ	10	1.57
(1,3252)	1:99:A:VAL:HG13	1:110:A:PHE:HZ	11	1.57
(1,3176)	1:159:A:GLU:HG3	1:155:A:SER:HB2	5	1.57
(1,3015)	1:151:A:GLU:HG2	1:80:A:LYS:HB3	12	1.57
(1,2672)	1:106:A:GLN:HG3	1:105:A:ASP:HA	12	1.57
(1,2640)	1:128:A:ARG:HA	1:138:A:PHE:HB3	5	1.57
(1,2120)	1:137:A:LEU:HD13	1:163:A:TRP:HB2	11	1.57
(1,2043)	1:79:A:LEU:HD12	1:113:A:LEU:HD13	4	1.57
(1,1987)	1:174:A:LEU:HD11	1:125:A:LEU:HD23	6	1.57
(1,1935)	1:56:A:LYS:HG2	1:121:A:SER:HB2	14	1.57
(1,1926)	1:19:A:LEU:HD11	1:18:A:SER:HB2	9	1.57
(1,1854)	1:62:A:ALA:HB3	1:52:A:ILE:HG13	3	1.57
(1,1854)	1:62:A:ALA:HB3	1:52:A:ILE:HG13	16	1.57
(1,1854)	1:62:A:ALA:HB1	1:52:A:ILE:HG13	17	1.57
(1,1854)	1:62:A:ALA:HB3	1:52:A:ILE:HG13	19	1.57
(1,1823)	1:79:A:LEU:HD22	1:100:A:PHE:HZ	5	1.57
(1,1823)	1:79:A:LEU:HD21	1:100:A:PHE:HZ	18	1.57
(1,1734)	1:130:A:VAL:HG11	1:138:A:PHE:HZ	6	1.57
(1,1030)	1:138:A:PHE:H	1:130:A:VAL:HG22	1	1.57
(1,370)	1:18:A:SER:HB3	1:19:A:LEU:HG	20	1.57
(1,132)	1:66:A:LEU:HD23	1:110:A:PHE:HD1	3	1.57
(1,117)	1:101:A:LEU:HD23	1:43:A:ILE:HG21	1	1.57
(1,3510)	1:103:A:GLU:HG2	1:108:A:TYR:HE1	7	1.56
(1,3413)	1:42:A:GLU:HB3	1:43:A:ILE:HG21	10	1.56
(1,3379)	1:101:A:LEU:HG	1:92:A:VAL:HG11	19	1.56
(1,3252)	1:99:A:VAL:HG12	1:110:A:PHE:HZ	17	1.56
(1,2999)	1:29:A:SER:HB3	1:21:A:LYS:HB2	2	1.56
(1,2837)	1:141:A:SER:HB2	1:144:A:MET:HE3	9	1.56
(1,2710)	1:178:A:GLU:HA	1:177:A:ASP:HB2	11	1.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2609)	1:107:A:LYS:HA	1:46:A:LYS:HD3	7	1.56
(1,2609)	1:107:A:LYS:HA	1:46:A:LYS:HD3	8	1.56
(1,2389)	1:151:A:GLU:HG3	1:150:A:VAL:HG12	18	1.56
(1,2155)	1:107:A:LYS:HD3	1:48:A:ASP:HA	3	1.56
(1,2155)	1:107:A:LYS:HD3	1:48:A:ASP:HA	12	1.56
(1,2068)	1:137:A:LEU:HD23	1:129:A:GLU:HA	17	1.56
(1,1854)	1:62:A:ALA:HB3	1:52:A:ILE:HG13	9	1.56
(1,1854)	1:62:A:ALA:HB2	1:52:A:ILE:HG13	13	1.56
(1,1844)	1:170:A:THR:HG23	1:122:A:LEU:HD21	20	1.56
(1,1823)	1:79:A:LEU:HD21	1:100:A:PHE:HZ	15	1.56
(1,1813)	1:31:A:VAL:HG21	1:32:A:ALA:HB1	13	1.56
(1,1813)	1:31:A:VAL:HG23	1:32:A:ALA:HB3	17	1.56
(1,1757)	1:99:A:VAL:HG21	1:92:A:VAL:HB	19	1.56
(1,1734)	1:130:A:VAL:HG11	1:138:A:PHE:HZ	3	1.56
(1,1432)	1:58:A:GLY:H	1:59:A:GLN:HB2	8	1.56
(1,1432)	1:58:A:GLY:H	1:59:A:GLN:HB2	15	1.56
(1,1432)	1:58:A:GLY:H	1:59:A:GLN:HB2	18	1.56
(1,1030)	1:138:A:PHE:H	1:130:A:VAL:HG23	10	1.56
(1,3510)	1:103:A:GLU:HG2	1:108:A:TYR:HE1	5	1.55
(1,3510)	1:103:A:GLU:HG2	1:108:A:TYR:HE1	12	1.55
(1,3510)	1:103:A:GLU:HG2	1:108:A:TYR:HE1	13	1.55
(1,3252)	1:99:A:VAL:HG13	1:110:A:PHE:HZ	1	1.55
(1,3211)	1:26:A:ALA:HB1	1:29:A:SER:HB3	1	1.55
(1,2536)	1:97:A:ILE:HB	1:99:A:VAL:HG23	2	1.55
(1,2068)	1:137:A:LEU:HD21	1:129:A:GLU:HA	1	1.55
(1,2043)	1:79:A:LEU:HD11	1:113:A:LEU:HD13	3	1.55
(1,2043)	1:79:A:LEU:HD13	1:113:A:LEU:HD12	10	1.55
(1,1817)	1:79:A:LEU:HD21	1:77:A:VAL:HG21	4	1.55
(1,1810)	1:127:A:VAL:HG21	1:168:A:GLN:H	6	1.55
(1,1734)	1:130:A:VAL:HG12	1:138:A:PHE:HZ	20	1.55
(1,1712)	1:119:A:VAL:HG21	1:99:A:VAL:HG12	4	1.55
(1,1432)	1:58:A:GLY:H	1:59:A:GLN:HB2	9	1.55
(1,1432)	1:58:A:GLY:H	1:59:A:GLN:HB2	11	1.55
(1,954)	1:139:A:LEU:H	1:137:A:LEU:HD22	13	1.55
(1,248)	1:165:A:GLN:HG3	1:166:A:ILE:HG23	20	1.55
(1,3510)	1:103:A:GLU:HG2	1:108:A:TYR:HE1	6	1.54
(1,3510)	1:103:A:GLU:HG2	1:108:A:TYR:HE1	8	1.54
(1,3510)	1:103:A:GLU:HG2	1:108:A:TYR:HE1	10	1.54
(1,3510)	1:103:A:GLU:HG2	1:108:A:TYR:HE1	19	1.54
(1,3252)	1:99:A:VAL:HG13	1:110:A:PHE:HZ	4	1.54
(1,3211)	1:26:A:ALA:HB1	1:29:A:SER:HB3	13	1.54
(1,2710)	1:178:A:GLU:HA	1:177:A:ASP:HB2	15	1.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2359)	1:134:A:GLU:HG3	1:157:A:LYS:HB3	11	1.54
(1,2068)	1:137:A:LEU:HD21	1:129:A:GLU:HA	7	1.54
(1,2068)	1:137:A:LEU:HD21	1:129:A:GLU:HA	19	1.54
(1,1844)	1:170:A:THR:HG23	1:122:A:LEU:HD21	15	1.54
(1,1830)	1:118:A:THR:HG21	1:79:A:LEU:HD13	14	1.54
(1,1823)	1:79:A:LEU:HD22	1:100:A:PHE:HZ	16	1.54
(1,1823)	1:79:A:LEU:HD23	1:100:A:PHE:HZ	20	1.54
(1,1810)	1:127:A:VAL:HG21	1:168:A:GLN:H	15	1.54
(1,1030)	1:138:A:PHE:H	1:130:A:VAL:HG22	20	1.54
(1,248)	1:165:A:GLN:HG3	1:166:A:ILE:HG21	15	1.54
(1,132)	1:66:A:LEU:HD22	1:110:A:PHE:HD1	12	1.54
(1,3532)	1:153:A:HIS:HD2	1:133:A:GLU:HG3	13	1.53
(1,3490)	1:51:A:SER:HB2	1:110:A:PHE:HD2	15	1.53
(1,3252)	1:99:A:VAL:HG11	1:110:A:PHE:HZ	16	1.53
(1,3204)	1:101:A:LEU:HA	1:99:A:VAL:HG13	15	1.53
(1,3176)	1:159:A:GLU:HG3	1:155:A:SER:HB2	13	1.53
(1,3110)	1:36:A:LYS:HE2	1:33:A:SER:HB3	1	1.53
(1,3015)	1:151:A:GLU:HG2	1:80:A:LYS:HB3	15	1.53
(1,3004)	1:165:A:GLN:HB2	1:162:A:SER:HA	9	1.53
(1,2710)	1:178:A:GLU:HA	1:177:A:ASP:HB2	8	1.53
(1,2672)	1:106:A:GLN:HG3	1:105:A:ASP:HA	3	1.53
(1,2609)	1:107:A:LYS:HA	1:46:A:LYS:HD3	17	1.53
(1,2536)	1:97:A:ILE:HB	1:99:A:VAL:HG23	15	1.53
(1,1933)	1:70:A:LYS:HG3	1:36:A:LYS:HE2	20	1.53
(1,1823)	1:79:A:LEU:HD22	1:100:A:PHE:HZ	4	1.53
(1,1813)	1:31:A:VAL:HG22	1:32:A:ALA:HB1	2	1.53
(1,1813)	1:31:A:VAL:HG22	1:32:A:ALA:HB1	11	1.53
(1,1716)	1:119:A:VAL:HG21	1:55:A:MET:HG3	6	1.53
(1,1030)	1:138:A:PHE:H	1:130:A:VAL:HG23	2	1.53
(1,248)	1:165:A:GLN:HG3	1:166:A:ILE:HG21	3	1.53
(1,248)	1:165:A:GLN:HG3	1:166:A:ILE:HG22	13	1.53
(1,3510)	1:103:A:GLU:HG2	1:108:A:TYR:HE1	1	1.52
(1,3510)	1:103:A:GLU:HG2	1:108:A:TYR:HE1	14	1.52
(1,3413)	1:42:A:GLU:HB3	1:43:A:ILE:HG22	19	1.52
(1,3252)	1:99:A:VAL:HG11	1:110:A:PHE:HZ	9	1.52
(1,3016)	1:151:A:GLU:HG2	1:150:A:VAL:HG12	8	1.52
(1,3003)	1:150:A:VAL:HG22	1:100:A:PHE:HZ	8	1.52
(1,2825)	1:32:A:ALA:HB3	1:29:A:SER:HB2	5	1.52
(1,2710)	1:178:A:GLU:HA	1:177:A:ASP:HB2	19	1.52
(1,2626)	1:153:A:HIS:HA	1:130:A:VAL:HG21	3	1.52
(1,2609)	1:107:A:LYS:HA	1:46:A:LYS:HD3	5	1.52
(1,2609)	1:107:A:LYS:HA	1:46:A:LYS:HD3	6	1.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2609)	1:107:A:LYS:HA	1:46:A:LYS:HD3	20	1.52
(1,2120)	1:137:A:LEU:HD11	1:163:A:TRP:HB2	10	1.52
(1,2120)	1:137:A:LEU:HD11	1:163:A:TRP:HB2	16	1.52
(1,1823)	1:79:A:LEU:HD22	1:100:A:PHE:HZ	17	1.52
(1,1757)	1:99:A:VAL:HG21	1:92:A:VAL:HB	7	1.52
(1,1623)	1:43:A:ILE:HG23	1:66:A:LEU:HD13	16	1.52
(1,532)	1:94:A:LEU:H	1:93:A:LEU:HD12	5	1.52
(1,132)	1:66:A:LEU:HD22	1:110:A:PHE:HD1	17	1.52
(1,3252)	1:99:A:VAL:HG11	1:110:A:PHE:HZ	8	1.51
(1,3176)	1:159:A:GLU:HG3	1:155:A:SER:HB2	20	1.51
(1,3016)	1:151:A:GLU:HG2	1:150:A:VAL:HG12	16	1.51
(1,3015)	1:151:A:GLU:HG2	1:80:A:LYS:HB3	6	1.51
(1,2943)	1:53:A:MET:HE3	1:53:A:MET:HG3	8	1.51
(1,2609)	1:107:A:LYS:HA	1:46:A:LYS:HD3	3	1.51
(1,2609)	1:107:A:LYS:HA	1:46:A:LYS:HD3	12	1.51
(1,2460)	1:96:A:ASP:HB3	1:94:A:LEU:HB2	1	1.51
(1,2196)	1:35:A:GLU:HB2	1:38:A:VAL:HG22	14	1.51
(1,2155)	1:107:A:LYS:HD3	1:48:A:ASP:HA	8	1.51
(1,2155)	1:107:A:LYS:HD3	1:48:A:ASP:HA	18	1.51
(1,2120)	1:137:A:LEU:HD12	1:163:A:TRP:HB2	2	1.51
(1,2043)	1:79:A:LEU:HD12	1:113:A:LEU:HD13	13	1.51
(1,2028)	1:124:A:LYS:HG2	1:123:A:LYS:HD3	2	1.51
(1,1927)	1:19:A:LEU:HD12	1:11:A:GLU:HA	15	1.51
(1,1926)	1:19:A:LEU:HD13	1:18:A:SER:HB2	13	1.51
(1,1830)	1:118:A:THR:HG23	1:79:A:LEU:HD13	1	1.51
(1,1813)	1:31:A:VAL:HG23	1:32:A:ALA:HB1	12	1.51
(1,1432)	1:58:A:GLY:H	1:59:A:GLN:HB2	7	1.51
(1,1030)	1:138:A:PHE:H	1:130:A:VAL:HG21	7	1.51
(1,1030)	1:138:A:PHE:H	1:130:A:VAL:HG21	11	1.51
(1,248)	1:165:A:GLN:HG3	1:166:A:ILE:HG21	8	1.51
(1,3413)	1:42:A:GLU:HB3	1:43:A:ILE:HG21	11	1.5
(1,3252)	1:99:A:VAL:HG12	1:110:A:PHE:HZ	15	1.5
(1,3252)	1:99:A:VAL:HG11	1:110:A:PHE:HZ	20	1.5
(1,3015)	1:151:A:GLU:HG2	1:80:A:LYS:HB3	9	1.5
(1,3003)	1:150:A:VAL:HG23	1:100:A:PHE:HZ	6	1.5
(1,2943)	1:53:A:MET:HE3	1:53:A:MET:HG3	4	1.5
(1,2825)	1:32:A:ALA:HB1	1:29:A:SER:HB2	4	1.5
(1,2710)	1:178:A:GLU:HA	1:177:A:ASP:HB2	16	1.5
(1,2672)	1:106:A:GLN:HG3	1:105:A:ASP:HA	6	1.5
(1,2640)	1:128:A:ARG:HA	1:138:A:PHE:HB3	6	1.5
(1,2609)	1:107:A:LYS:HA	1:46:A:LYS:HD3	15	1.5
(1,2609)	1:107:A:LYS:HA	1:46:A:LYS:HD3	16	1.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2609)	1:107:A:LYS:HA	1:46:A:LYS:HD3	18	1.5
(1,2068)	1:137:A:LEU:HD21	1:129:A:GLU:HA	2	1.5
(1,2068)	1:137:A:LEU:HD23	1:129:A:GLU:HA	3	1.5
(1,1879)	1:67:A:LYS:H	1:66:A:LEU:HD23	13	1.5
(1,1830)	1:118:A:THR:HG23	1:79:A:LEU:HD12	18	1.5
(1,1716)	1:119:A:VAL:HG21	1:55:A:MET:HG3	12	1.5
(1,1030)	1:138:A:PHE:H	1:130:A:VAL:HG21	13	1.5
(1,132)	1:66:A:LEU:HD23	1:110:A:PHE:HD1	6	1.5
(1,117)	1:101:A:LEU:HD21	1:43:A:ILE:HG21	9	1.5
(1,3510)	1:103:A:GLU:HG2	1:108:A:TYR:HE1	9	1.49
(1,3413)	1:42:A:GLU:HB3	1:43:A:ILE:HG22	16	1.49
(1,3252)	1:99:A:VAL:HG13	1:110:A:PHE:HZ	5	1.49
(1,3056)	1:144:A:MET:HE2	1:145:A:THR:HG23	8	1.49
(1,3015)	1:151:A:GLU:HG2	1:80:A:LYS:HB3	1	1.49
(1,2841)	1:16:A:SER:HB2	1:3:A:THR:HB	19	1.49
(1,2609)	1:107:A:LYS:HA	1:46:A:LYS:HD3	10	1.49
(1,2609)	1:107:A:LYS:HA	1:46:A:LYS:HD3	13	1.49
(1,2187)	1:93:A:LEU:HD21	1:125:A:LEU:HD21	16	1.49
(1,2155)	1:107:A:LYS:HD3	1:48:A:ASP:HA	5	1.49
(1,231)	1:147:A:PRO:HB3	1:126:A:ILE:HD12	19	1.49
(1,132)	1:66:A:LEU:HD22	1:110:A:PHE:HD1	2	1.49
(1,10)	1:98:A:LEU:H	1:122:A:LEU:HG	4	1.49
(2,16)	1:137:A:LEU:H	1:135:A:LYS:O	12	1.48
(1,3510)	1:103:A:GLU:HG2	1:108:A:TYR:HE1	20	1.48
(1,3490)	1:51:A:SER:HB2	1:110:A:PHE:HD2	5	1.48
(1,3413)	1:42:A:GLU:HB3	1:43:A:ILE:HG21	18	1.48
(1,3383)	1:42:A:GLU:HG3	1:38:A:VAL:HG21	7	1.48
(1,3264)	1:20:A:VAL:HG22	1:27:A:VAL:HA	20	1.48
(1,3016)	1:151:A:GLU:HG2	1:150:A:VAL:HG12	4	1.48
(1,3015)	1:151:A:GLU:HG2	1:80:A:LYS:HB3	2	1.48
(1,2943)	1:53:A:MET:HE2	1:53:A:MET:HG3	2	1.48
(1,2943)	1:53:A:MET:HE2	1:53:A:MET:HG3	5	1.48
(1,2943)	1:53:A:MET:HE2	1:53:A:MET:HG3	13	1.48
(1,2943)	1:53:A:MET:HE3	1:53:A:MET:HG3	17	1.48
(1,2672)	1:106:A:GLN:HG3	1:105:A:ASP:HA	11	1.48
(1,2672)	1:106:A:GLN:HG3	1:105:A:ASP:HA	14	1.48
(1,2626)	1:153:A:HIS:HA	1:130:A:VAL:HG21	6	1.48
(1,2609)	1:107:A:LYS:HA	1:46:A:LYS:HD3	4	1.48
(1,2120)	1:137:A:LEU:HD12	1:163:A:TRP:HB2	1	1.48
(1,2043)	1:79:A:LEU:HD13	1:113:A:LEU:HD13	6	1.48
(1,1972)	1:66:A:LEU:HD11	1:101:A:LEU:HD11	5	1.48
(1,1830)	1:118:A:THR:HG21	1:79:A:LEU:HD12	8	1.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1830)	1:118:A:THR:HG21	1:79:A:LEU:HD11	11	1.48
(1,1830)	1:118:A:THR:HG22	1:79:A:LEU:HD12	17	1.48
(1,1813)	1:31:A:VAL:HG23	1:32:A:ALA:HB1	20	1.48
(1,1030)	1:138:A:PHE:H	1:130:A:VAL:HG21	18	1.48
(1,248)	1:165:A:GLN:HG3	1:166:A:ILE:HG22	1	1.48
(1,246)	1:87:A:LYS:HB2	1:79:A:LEU:HD23	12	1.48
(1,132)	1:66:A:LEU:HD22	1:110:A:PHE:HD1	14	1.48
(1,3510)	1:103:A:GLU:HG2	1:108:A:TYR:HE1	15	1.47
(1,3204)	1:101:A:LEU:HA	1:99:A:VAL:HG11	5	1.47
(1,3204)	1:101:A:LEU:HA	1:99:A:VAL:HG13	7	1.47
(1,2999)	1:29:A:SER:HB3	1:21:A:LYS:HB2	16	1.47
(1,2943)	1:53:A:MET:HE2	1:53:A:MET:HG3	9	1.47
(1,2825)	1:32:A:ALA:HB3	1:29:A:SER:HB2	8	1.47
(1,2825)	1:32:A:ALA:HB3	1:29:A:SER:HB2	12	1.47
(1,2672)	1:106:A:GLN:HG3	1:105:A:ASP:HA	9	1.47
(1,2626)	1:153:A:HIS:HA	1:130:A:VAL:HG21	20	1.47
(1,2480)	1:69:A:LYS:HE3	1:97:A:ILE:HG13	3	1.47
(1,2460)	1:96:A:ASP:HB3	1:94:A:LEU:HB2	13	1.47
(1,2368)	1:134:A:GLU:HG3	1:135:A:LYS:HG3	11	1.47
(1,2160)	1:107:A:LYS:HD3	1:109:A:ILE:HG21	14	1.47
(1,2155)	1:107:A:LYS:HD3	1:48:A:ASP:HA	6	1.47
(1,2155)	1:107:A:LYS:HD3	1:48:A:ASP:HA	9	1.47
(1,2043)	1:79:A:LEU:HD13	1:113:A:LEU:HD13	15	1.47
(1,1987)	1:174:A:LEU:HD11	1:125:A:LEU:HD22	7	1.47
(1,1933)	1:70:A:LYS:HG3	1:36:A:LYS:HE2	5	1.47
(1,1844)	1:170:A:THR:HG23	1:122:A:LEU:HD23	17	1.47
(1,1813)	1:31:A:VAL:HG22	1:32:A:ALA:HB3	1	1.47
(1,1813)	1:31:A:VAL:HG23	1:32:A:ALA:HB2	6	1.47
(1,1813)	1:31:A:VAL:HG22	1:32:A:ALA:HB1	8	1.47
(1,1735)	1:130:A:VAL:HG12	1:138:A:PHE:HE1	2	1.47
(1,1734)	1:130:A:VAL:HG11	1:138:A:PHE:HZ	1	1.47
(1,1716)	1:119:A:VAL:HG23	1:55:A:MET:HG3	14	1.47
(1,1712)	1:119:A:VAL:HG22	1:99:A:VAL:HG12	1	1.47
(1,1623)	1:43:A:ILE:HG22	1:66:A:LEU:HD11	11	1.47
(1,197)	1:68:A:ARG:HG2	1:67:A:LYS:HE2	20	1.47
(1,3523)	1:130:A:VAL:HG13	1:132:A:HIS:HD2	9	1.46
(1,3414)	1:137:A:LEU:HD23	1:127:A:VAL:HB	12	1.46
(1,3396)	1:92:A:VAL:HA	1:73:A:ARG:HG3	20	1.46
(1,3176)	1:159:A:GLU:HG3	1:155:A:SER:HB2	10	1.46
(1,3003)	1:150:A:VAL:HG22	1:100:A:PHE:HZ	10	1.46
(1,2825)	1:32:A:ALA:HB2	1:29:A:SER:HB2	17	1.46
(1,2825)	1:32:A:ALA:HB3	1:29:A:SER:HB2	18	1.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2825)	1:32:A:ALA:HB3	1:29:A:SER:HB2	20	1.46
(1,2788)	1:158:A:GLU:HA	1:161:A:ASN:HB3	18	1.46
(1,2710)	1:178:A:GLU:HA	1:177:A:ASP:HB2	10	1.46
(1,2672)	1:106:A:GLN:HG3	1:105:A:ASP:HA	19	1.46
(1,2626)	1:153:A:HIS:HA	1:130:A:VAL:HG23	11	1.46
(1,2449)	1:46:A:LYS:HG2	1:46:A:LYS:HE2	19	1.46
(1,2133)	1:68:A:ARG:HG2	1:67:A:LYS:HD2	2	1.46
(1,2120)	1:137:A:LEU:HD12	1:163:A:TRP:HB2	19	1.46
(1,2043)	1:79:A:LEU:HD13	1:113:A:LEU:HD11	5	1.46
(1,2043)	1:79:A:LEU:HD13	1:113:A:LEU:HD13	9	1.46
(1,1926)	1:19:A:LEU:HD13	1:18:A:SER:HB2	20	1.46
(1,1830)	1:118:A:THR:HG22	1:79:A:LEU:HD13	6	1.46
(1,1813)	1:31:A:VAL:HG23	1:32:A:ALA:HB3	14	1.46
(1,1813)	1:31:A:VAL:HG23	1:32:A:ALA:HB1	16	1.46
(1,1716)	1:119:A:VAL:HG21	1:55:A:MET:HG3	7	1.46
(1,1716)	1:119:A:VAL:HG23	1:55:A:MET:HG3	19	1.46
(1,500)	1:163:A:TRP:HE3	1:137:A:LEU:HD12	8	1.46
(1,373)	1:30:A:LYS:HB2	1:33:A:SER:HB2	3	1.46
(1,132)	1:66:A:LEU:HD21	1:110:A:PHE:HD1	19	1.46
(1,117)	1:101:A:LEU:HD21	1:43:A:ILE:HG23	3	1.46
(1,3204)	1:101:A:LEU:HA	1:99:A:VAL:HG12	20	1.45
(1,3016)	1:151:A:GLU:HG2	1:150:A:VAL:HG12	2	1.45
(1,3015)	1:151:A:GLU:HG2	1:80:A:LYS:HB3	5	1.45
(1,3004)	1:165:A:GLN:HB2	1:162:A:SER:HA	20	1.45
(1,3003)	1:150:A:VAL:HG22	1:100:A:PHE:HZ	14	1.45
(1,2825)	1:32:A:ALA:HB1	1:29:A:SER:HB2	6	1.45
(1,2710)	1:178:A:GLU:HA	1:177:A:ASP:HB2	1	1.45
(1,2192)	1:15:A:GLN:HB2	1:18:A:SER:HA	16	1.45
(1,2068)	1:137:A:LEU:HD22	1:129:A:GLU:HA	16	1.45
(1,2043)	1:79:A:LEU:HD11	1:113:A:LEU:HD11	19	1.45
(1,1835)	1:173:A:THR:HG22	1:176:A:ARG:HD3	15	1.45
(1,1830)	1:118:A:THR:HG22	1:79:A:LEU:HD11	3	1.45
(1,1830)	1:118:A:THR:HG22	1:79:A:LEU:HD13	5	1.45
(1,1813)	1:31:A:VAL:HG22	1:32:A:ALA:HB2	4	1.45
(1,1810)	1:127:A:VAL:HG22	1:168:A:GLN:H	3	1.45
(1,208)	1:93:A:LEU:HD23	1:73:A:ARG:HB2	9	1.45
(1,3414)	1:137:A:LEU:HD21	1:127:A:VAL:HB	6	1.44
(1,3252)	1:99:A:VAL:HG11	1:110:A:PHE:HZ	18	1.44
(1,3211)	1:26:A:ALA:HB3	1:29:A:SER:HB3	7	1.44
(1,3003)	1:150:A:VAL:HG23	1:100:A:PHE:HZ	2	1.44
(1,2963)	1:65:A:ASP:HB3	1:66:A:LEU:HB3	5	1.44
(1,2710)	1:178:A:GLU:HA	1:177:A:ASP:HB2	4	1.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2609)	1:107:A:LYS:HA	1:46:A:LYS:HD3	1	1.44
(1,2609)	1:107:A:LYS:HA	1:46:A:LYS:HD3	2	1.44
(1,2487)	1:19:A:LEU:HD13	1:19:A:LEU:HB2	17	1.44
(1,2359)	1:134:A:GLU:HG3	1:157:A:LYS:HB3	12	1.44
(1,2192)	1:15:A:GLN:HB2	1:18:A:SER:HA	6	1.44
(1,2187)	1:93:A:LEU:HD23	1:125:A:LEU:HD22	7	1.44
(1,2043)	1:79:A:LEU:HD11	1:113:A:LEU:HD11	2	1.44
(1,1813)	1:31:A:VAL:HG23	1:32:A:ALA:HB1	5	1.44
(1,1716)	1:119:A:VAL:HG22	1:55:A:MET:HG3	3	1.44
(1,1712)	1:119:A:VAL:HG22	1:99:A:VAL:HG11	17	1.44
(1,1030)	1:138:A:PHE:H	1:130:A:VAL:HG22	12	1.44
(2,16)	1:137:A:LEU:H	1:135:A:LYS:O	17	1.43
(2,16)	1:137:A:LEU:H	1:135:A:LYS:O	18	1.43
(1,3204)	1:101:A:LEU:HA	1:99:A:VAL:HG11	6	1.43
(1,3003)	1:150:A:VAL:HG23	1:100:A:PHE:HZ	9	1.43
(1,2987)	1:38:A:VAL:HG23	1:41:A:ASN:HD22	17	1.43
(1,2825)	1:32:A:ALA:HB1	1:29:A:SER:HB2	7	1.43
(1,2487)	1:19:A:LEU:HD12	1:19:A:LEU:HB2	8	1.43
(1,2487)	1:19:A:LEU:HD11	1:19:A:LEU:HB2	12	1.43
(1,2487)	1:19:A:LEU:HD11	1:19:A:LEU:HB2	20	1.43
(1,2043)	1:79:A:LEU:HD13	1:113:A:LEU:HD11	14	1.43
(1,2043)	1:79:A:LEU:HD12	1:113:A:LEU:HD12	17	1.43
(1,1937)	1:56:A:LYS:HG2	1:121:A:SER:HB3	20	1.43
(1,1882)	1:66:A:LEU:HD22	1:61:A:PHE:HE2	8	1.43
(1,1835)	1:173:A:THR:HG22	1:176:A:ARG:HD3	12	1.43
(1,1830)	1:118:A:THR:HG23	1:79:A:LEU:HD13	16	1.43
(1,1813)	1:31:A:VAL:HG21	1:32:A:ALA:HB2	3	1.43
(1,1813)	1:31:A:VAL:HG22	1:32:A:ALA:HB2	10	1.43
(1,1813)	1:31:A:VAL:HG22	1:32:A:ALA:HB1	18	1.43
(1,1813)	1:31:A:VAL:HG22	1:32:A:ALA:HB3	19	1.43
(1,1729)	1:31:A:VAL:HG11	1:35:A:GLU:HG2	13	1.43
(1,1716)	1:119:A:VAL:HG23	1:55:A:MET:HG3	2	1.43
(1,1613)	1:171:A:ILE:HG23	1:125:A:LEU:HD11	14	1.43
(1,208)	1:93:A:LEU:HD22	1:73:A:ARG:HB2	14	1.43
(1,3468)	1:138:A:PHE:HD1	1:151:A:GLU:HG3	2	1.42
(1,3413)	1:42:A:GLU:HB3	1:43:A:ILE:HG23	8	1.42
(1,3396)	1:92:A:VAL:HA	1:73:A:ARG:HG3	2	1.42
(1,3335)	1:124:A:LYS:HA	1:171:A:ILE:HG13	11	1.42
(1,3211)	1:26:A:ALA:HB1	1:29:A:SER:HB3	18	1.42
(1,3204)	1:101:A:LEU:HA	1:99:A:VAL:HG11	14	1.42
(1,2919)	1:141:A:SER:HB2	1:56:A:LYS:HD3	20	1.42
(1,2487)	1:19:A:LEU:HD12	1:19:A:LEU:HB2	1	1.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2487)	1:19:A:LEU:HD13	1:19:A:LEU:HB2	3	1.42
(1,2487)	1:19:A:LEU:HD11	1:19:A:LEU:HB2	15	1.42
(1,2487)	1:19:A:LEU:HD13	1:19:A:LEU:HB2	19	1.42
(1,2155)	1:107:A:LYS:HD3	1:48:A:ASP:HA	15	1.42
(1,2133)	1:68:A:ARG:HG2	1:67:A:LYS:HD2	10	1.42
(1,2120)	1:137:A:LEU:HD11	1:163:A:TRP:HB2	7	1.42
(1,2068)	1:137:A:LEU:HD21	1:129:A:GLU:HA	15	1.42
(1,2043)	1:79:A:LEU:HD13	1:113:A:LEU:HD13	16	1.42
(1,2028)	1:124:A:LYS:HG2	1:123:A:LYS:HD3	10	1.42
(1,1844)	1:170:A:THR:HG22	1:122:A:LEU:HD23	12	1.42
(1,1830)	1:118:A:THR:HG23	1:79:A:LEU:HD12	20	1.42
(1,1822)	1:79:A:LEU:HD23	1:78:A:PHE:HA	18	1.42
(1,1810)	1:127:A:VAL:HG22	1:168:A:GLN:H	9	1.42
(1,1729)	1:31:A:VAL:HG11	1:35:A:GLU:HG2	11	1.42
(1,1712)	1:119:A:VAL:HG22	1:99:A:VAL:HG12	13	1.42
(1,1712)	1:119:A:VAL:HG22	1:99:A:VAL:HG13	18	1.42
(1,1623)	1:43:A:ILE:HG22	1:66:A:LEU:HD13	18	1.42
(1,1613)	1:171:A:ILE:HG22	1:125:A:LEU:HD13	11	1.42
(1,1030)	1:138:A:PHE:H	1:130:A:VAL:HG22	6	1.42
(1,1030)	1:138:A:PHE:H	1:130:A:VAL:HG21	9	1.42
(1,1030)	1:138:A:PHE:H	1:130:A:VAL:HG23	15	1.42
(1,1030)	1:138:A:PHE:H	1:130:A:VAL:HG22	16	1.42
(1,3204)	1:101:A:LEU:HA	1:99:A:VAL:HG11	11	1.41
(1,3204)	1:101:A:LEU:HA	1:99:A:VAL:HG12	16	1.41
(1,2825)	1:32:A:ALA:HB3	1:29:A:SER:HB2	11	1.41
(1,2626)	1:153:A:HIS:HA	1:130:A:VAL:HG23	7	1.41
(1,2536)	1:97:A:ILE:HB	1:99:A:VAL:HG22	8	1.41
(1,2487)	1:19:A:LEU:HD12	1:19:A:LEU:HB2	2	1.41
(1,2487)	1:19:A:LEU:HD12	1:19:A:LEU:HB2	10	1.41
(1,2487)	1:19:A:LEU:HD13	1:19:A:LEU:HB2	16	1.41
(1,2487)	1:19:A:LEU:HD11	1:19:A:LEU:HB2	18	1.41
(1,2480)	1:69:A:LYS:HE3	1:97:A:ILE:HG13	10	1.41
(1,2068)	1:137:A:LEU:HD22	1:129:A:GLU:HA	14	1.41
(1,1827)	1:45:A:THR:HG21	1:42:A:GLU:HB2	5	1.41
(1,1813)	1:31:A:VAL:HG21	1:32:A:ALA:HB2	9	1.41
(1,1726)	1:20:A:VAL:HG22	1:21:A:LYS:HA	20	1.41
(1,1030)	1:138:A:PHE:H	1:130:A:VAL:HG23	14	1.41
(1,445)	1:70:A:LYS:HA	1:70:A:LYS:HD3	10	1.41
(1,370)	1:18:A:SER:HB2	1:19:A:LEU:HG	8	1.41
(1,253)	1:115:A:GLN:HG2	1:113:A:LEU:HB2	12	1.41
(1,3523)	1:130:A:VAL:HG12	1:132:A:HIS:HD2	12	1.4
(1,3490)	1:51:A:SER:HB2	1:110:A:PHE:HD2	19	1.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3468)	1:138:A:PHE:HD1	1:151:A:GLU:HG3	15	1.4
(1,3204)	1:101:A:LEU:HA	1:99:A:VAL:HG11	3	1.4
(1,3204)	1:101:A:LEU:HA	1:99:A:VAL:HG12	10	1.4
(1,3004)	1:165:A:GLN:HB2	1:162:A:SER:HA	18	1.4
(1,2640)	1:128:A:ARG:HA	1:138:A:PHE:HB3	19	1.4
(1,2626)	1:153:A:HIS:HA	1:130:A:VAL:HG21	1	1.4
(1,2536)	1:97:A:ILE:HB	1:99:A:VAL:HG23	1	1.4
(1,2487)	1:19:A:LEU:HD11	1:19:A:LEU:HB2	13	1.4
(1,2369)	1:134:A:GLU:HG3	1:135:A:LYS:HG2	9	1.4
(1,2359)	1:134:A:GLU:HG3	1:157:A:LYS:HB3	16	1.4
(1,2068)	1:137:A:LEU:HD23	1:129:A:GLU:HA	4	1.4
(1,1844)	1:170:A:THR:HG22	1:122:A:LEU:HD23	19	1.4
(1,1827)	1:45:A:THR:HG21	1:42:A:GLU:HB2	20	1.4
(1,1822)	1:79:A:LEU:HD22	1:78:A:PHE:HA	11	1.4
(1,1813)	1:31:A:VAL:HG21	1:32:A:ALA:HB3	15	1.4
(1,1729)	1:31:A:VAL:HG11	1:35:A:GLU:HG2	17	1.4
(1,416)	1:18:A:SER:HA	1:24:A:ILE:HD12	8	1.4
(1,373)	1:30:A:LYS:HB2	1:33:A:SER:HB2	1	1.4
(1,248)	1:165:A:GLN:HG3	1:166:A:ILE:HG21	5	1.4
(1,117)	1:101:A:LEU:HD21	1:43:A:ILE:HG22	2	1.4
(1,117)	1:101:A:LEU:HD23	1:43:A:ILE:HG21	12	1.4
(1,117)	1:101:A:LEU:HD23	1:43:A:ILE:HG22	20	1.4
(1,15)	1:128:A:ARG:H	1:126:A:ILE:HD11	6	1.4
(1,3211)	1:26:A:ALA:HB1	1:29:A:SER:HB3	6	1.39
(1,2837)	1:141:A:SER:HB2	1:144:A:MET:HE1	4	1.39
(1,2626)	1:153:A:HIS:HA	1:130:A:VAL:HG22	4	1.39
(1,2609)	1:107:A:LYS:HA	1:46:A:LYS:HD3	9	1.39
(1,2487)	1:19:A:LEU:HD12	1:19:A:LEU:HB2	9	1.39
(1,2487)	1:19:A:LEU:HD12	1:19:A:LEU:HB2	11	1.39
(1,2461)	1:96:A:ASP:HB2	1:185:A:GLU:HB3	5	1.39
(1,2457)	1:87:A:LYS:HB2	1:87:A:LYS:HE2	19	1.39
(1,2133)	1:68:A:ARG:HG2	1:67:A:LYS:HD2	8	1.39
(1,2120)	1:137:A:LEU:HD12	1:163:A:TRP:HB2	17	1.39
(1,2118)	1:137:A:LEU:HD13	1:160:A:ARG:HA	11	1.39
(1,1933)	1:70:A:LYS:HG3	1:36:A:LYS:HE2	4	1.39
(1,1827)	1:45:A:THR:HG23	1:42:A:GLU:HB2	7	1.39
(1,1729)	1:31:A:VAL:HG11	1:35:A:GLU:HG2	2	1.39
(1,1712)	1:119:A:VAL:HG22	1:99:A:VAL:HG13	9	1.39
(1,1613)	1:171:A:ILE:HG23	1:125:A:LEU:HD11	12	1.39
(1,117)	1:101:A:LEU:HD21	1:43:A:ILE:HG21	13	1.39
(1,3490)	1:51:A:SER:HB2	1:110:A:PHE:HD2	9	1.38
(1,3490)	1:51:A:SER:HB2	1:110:A:PHE:HD2	12	1.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3468)	1:138:A:PHE:HD1	1:151:A:GLU:HG3	3	1.38
(1,3396)	1:92:A:VAL:HA	1:73:A:ARG:HG3	7	1.38
(1,3204)	1:101:A:LEU:HA	1:99:A:VAL:HG12	9	1.38
(1,3176)	1:159:A:GLU:HG3	1:155:A:SER:HB2	19	1.38
(1,2963)	1:65:A:ASP:HB3	1:66:A:LEU:HB3	15	1.38
(1,2626)	1:153:A:HIS:HA	1:130:A:VAL:HG21	5	1.38
(1,2487)	1:19:A:LEU:HD12	1:19:A:LEU:HB2	5	1.38
(1,2160)	1:107:A:LYS:HD3	1:109:A:ILE:HG23	18	1.38
(1,2128)	1:137:A:LEU:HD13	1:163:A:TRP:H	18	1.38
(1,2043)	1:79:A:LEU:HD11	1:113:A:LEU:HD11	20	1.38
(1,1935)	1:56:A:LYS:HG2	1:121:A:SER:HB2	16	1.38
(1,1827)	1:45:A:THR:HG22	1:42:A:GLU:HB2	19	1.38
(1,1613)	1:171:A:ILE:HG21	1:125:A:LEU:HD11	15	1.38
(1,370)	1:18:A:SER:HB2	1:19:A:LEU:HG	13	1.38
(1,248)	1:165:A:GLN:HG3	1:166:A:ILE:HG22	17	1.38
(1,117)	1:101:A:LEU:HD22	1:43:A:ILE:HG23	8	1.38
(1,9)	1:98:A:LEU:H	1:120:A:ILE:HG21	6	1.38
(1,3468)	1:138:A:PHE:HD1	1:151:A:GLU:HG3	8	1.37
(1,3396)	1:92:A:VAL:HA	1:73:A:ARG:HG3	16	1.37
(1,3361)	1:157:A:LYS:HA	1:160:A:ARG:HB2	1	1.37
(1,3335)	1:124:A:LYS:HA	1:171:A:ILE:HG13	8	1.37
(1,3335)	1:124:A:LYS:HA	1:171:A:ILE:HG13	13	1.37
(1,3335)	1:124:A:LYS:HA	1:171:A:ILE:HG13	14	1.37
(1,3211)	1:26:A:ALA:HB3	1:29:A:SER:HB3	4	1.37
(1,3204)	1:101:A:LEU:HA	1:99:A:VAL:HG11	13	1.37
(1,3176)	1:159:A:GLU:HG3	1:155:A:SER:HB2	11	1.37
(1,3004)	1:165:A:GLN:HB2	1:162:A:SER:HA	13	1.37
(1,3003)	1:150:A:VAL:HG23	1:100:A:PHE:HZ	19	1.37
(1,2460)	1:96:A:ASP:HB3	1:94:A:LEU:HB2	12	1.37
(1,2196)	1:35:A:GLU:HB2	1:38:A:VAL:HG21	19	1.37
(1,2187)	1:93:A:LEU:HD23	1:125:A:LEU:HD22	20	1.37
(1,2160)	1:107:A:LYS:HD3	1:109:A:ILE:HG21	3	1.37
(1,2160)	1:107:A:LYS:HD3	1:109:A:ILE:HG21	10	1.37
(1,2133)	1:68:A:ARG:HG2	1:67:A:LYS:HD2	15	1.37
(1,1926)	1:19:A:LEU:HD13	1:18:A:SER:HB2	18	1.37
(1,1830)	1:118:A:THR:HG21	1:79:A:LEU:HD11	19	1.37
(1,1827)	1:45:A:THR:HG23	1:42:A:GLU:HB2	12	1.37
(1,1822)	1:79:A:LEU:HD21	1:78:A:PHE:HA	2	1.37
(1,1712)	1:119:A:VAL:HG23	1:99:A:VAL:HG12	5	1.37
(1,1623)	1:43:A:ILE:HG23	1:66:A:LEU:HD13	7	1.37
(1,1410)	1:172:A:ASN:HD22	1:168:A:GLN:HG3	9	1.37
(1,500)	1:163:A:TRP:HE3	1:137:A:LEU:HD11	20	1.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,253)	1:115:A:GLN:HG2	1:113:A:LEU:HB2	13	1.37
(1,117)	1:101:A:LEU:HD23	1:43:A:ILE:HG22	17	1.37
(1,58)	1:13:A:LEU:H	1:8:A:VAL:HG12	8	1.37
(2,16)	1:137:A:LEU:H	1:135:A:LYS:O	15	1.36
(1,3490)	1:51:A:SER:HB2	1:110:A:PHE:HD2	1	1.36
(1,3396)	1:92:A:VAL:HA	1:73:A:ARG:HG3	6	1.36
(1,3396)	1:92:A:VAL:HA	1:73:A:ARG:HG3	8	1.36
(1,3396)	1:92:A:VAL:HA	1:73:A:ARG:HG3	17	1.36
(1,3335)	1:124:A:LYS:HA	1:171:A:ILE:HG13	4	1.36
(1,3211)	1:26:A:ALA:HB2	1:29:A:SER:HB3	14	1.36
(1,3004)	1:165:A:GLN:HB2	1:162:A:SER:HA	6	1.36
(1,3004)	1:165:A:GLN:HB2	1:162:A:SER:HA	7	1.36
(1,2944)	1:53:A:MET:HE3	1:53:A:MET:HB2	9	1.36
(1,2920)	1:141:A:SER:HB2	1:56:A:LYS:HB3	17	1.36
(1,2640)	1:128:A:ARG:HA	1:138:A:PHE:HB3	10	1.36
(1,2457)	1:87:A:LYS:HB2	1:87:A:LYS:HE2	5	1.36
(1,2364)	1:134:A:GLU:HG2	1:157:A:LYS:HB3	12	1.36
(1,2196)	1:35:A:GLU:HB2	1:38:A:VAL:HG23	1	1.36
(1,2196)	1:35:A:GLU:HB2	1:38:A:VAL:HG23	5	1.36
(1,2187)	1:93:A:LEU:HD22	1:125:A:LEU:HD22	8	1.36
(1,2133)	1:68:A:ARG:HG2	1:67:A:LYS:HD2	12	1.36
(1,2128)	1:137:A:LEU:HD11	1:163:A:TRP:H	12	1.36
(1,2128)	1:137:A:LEU:HD12	1:163:A:TRP:H	13	1.36
(1,2120)	1:137:A:LEU:HD11	1:163:A:TRP:HB2	5	1.36
(1,2118)	1:137:A:LEU:HD11	1:160:A:ARG:HA	12	1.36
(1,2068)	1:137:A:LEU:HD22	1:129:A:GLU:HA	9	1.36
(1,1827)	1:45:A:THR:HG22	1:42:A:GLU:HB2	11	1.36
(1,1613)	1:171:A:ILE:HG22	1:125:A:LEU:HD11	3	1.36
(1,532)	1:94:A:LEU:H	1:93:A:LEU:HD12	4	1.36
(1,248)	1:165:A:GLN:HG3	1:166:A:ILE:HG22	7	1.36
(1,231)	1:147:A:PRO:HB3	1:126:A:ILE:HD11	9	1.36
(1,3204)	1:101:A:LEU:HA	1:99:A:VAL:HG11	12	1.35
(1,3004)	1:165:A:GLN:HB2	1:162:A:SER:HA	15	1.35
(1,2825)	1:32:A:ALA:HB2	1:29:A:SER:HB2	19	1.35
(1,2658)	1:138:A:PHE:HA	1:137:A:LEU:HD22	18	1.35
(1,2626)	1:153:A:HIS:HA	1:130:A:VAL:HG21	16	1.35
(1,2457)	1:87:A:LYS:HB2	1:87:A:LYS:HE2	13	1.35
(1,2196)	1:35:A:GLU:HB2	1:38:A:VAL:HG21	3	1.35
(1,2128)	1:137:A:LEU:HD11	1:163:A:TRP:H	6	1.35
(1,2128)	1:137:A:LEU:HD13	1:163:A:TRP:H	11	1.35
(1,2068)	1:137:A:LEU:HD21	1:129:A:GLU:HA	11	1.35
(1,1941)	1:70:A:LYS:HG2	1:36:A:LYS:HE2	10	1.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1830)	1:118:A:THR:HG22	1:79:A:LEU:HD12	7	1.35
(1,1830)	1:118:A:THR:HG21	1:79:A:LEU:HD12	13	1.35
(1,1728)	1:31:A:VAL:HG11	1:35:A:GLU:HG3	11	1.35
(1,1613)	1:171:A:ILE:HG21	1:125:A:LEU:HD13	19	1.35
(1,248)	1:165:A:GLN:HG3	1:166:A:ILE:HG21	16	1.35
(1,3490)	1:51:A:SER:HB2	1:110:A:PHE:HD2	7	1.34
(1,3396)	1:92:A:VAL:HA	1:73:A:ARG:HG3	11	1.34
(1,3211)	1:26:A:ALA:HB1	1:29:A:SER:HB3	11	1.34
(1,3109)	1:36:A:LYS:HE3	1:33:A:SER:HB3	1	1.34
(1,3004)	1:165:A:GLN:HB2	1:162:A:SER:HA	8	1.34
(1,2825)	1:32:A:ALA:HB2	1:29:A:SER:HB2	1	1.34
(1,2658)	1:138:A:PHE:HA	1:137:A:LEU:HD23	13	1.34
(1,2609)	1:107:A:LYS:HA	1:46:A:LYS:HD3	14	1.34
(1,2487)	1:19:A:LEU:HD12	1:19:A:LEU:HB2	4	1.34
(1,2439)	1:28:A:ASP:HB2	1:25:A:GLY:HA3	2	1.34
(1,2196)	1:35:A:GLU:HB2	1:38:A:VAL:HG23	4	1.34
(1,2196)	1:35:A:GLU:HB2	1:38:A:VAL:HG23	6	1.34
(1,2196)	1:35:A:GLU:HB2	1:38:A:VAL:HG23	9	1.34
(1,2196)	1:35:A:GLU:HB2	1:38:A:VAL:HG22	16	1.34
(1,2196)	1:35:A:GLU:HB2	1:38:A:VAL:HG21	20	1.34
(1,2187)	1:93:A:LEU:HD21	1:125:A:LEU:HD23	12	1.34
(1,2160)	1:107:A:LYS:HD3	1:109:A:ILE:HG23	7	1.34
(1,2133)	1:68:A:ARG:HG2	1:67:A:LYS:HD2	16	1.34
(1,1879)	1:67:A:LYS:H	1:66:A:LEU:HD23	1	1.34
(1,1827)	1:45:A:THR:HG23	1:42:A:GLU:HB2	14	1.34
(1,1827)	1:45:A:THR:HG22	1:42:A:GLU:HB2	18	1.34
(1,1822)	1:79:A:LEU:HD21	1:78:A:PHE:HA	9	1.34
(1,1822)	1:79:A:LEU:HD21	1:78:A:PHE:HA	16	1.34
(1,1613)	1:171:A:ILE:HG23	1:125:A:LEU:HD13	5	1.34
(1,1613)	1:171:A:ILE:HG23	1:125:A:LEU:HD13	9	1.34
(1,1613)	1:171:A:ILE:HG21	1:125:A:LEU:HD11	17	1.34
(1,701)	1:137:A:LEU:H	1:130:A:VAL:HG21	20	1.34
(1,489)	1:70:A:LYS:HB3	1:36:A:LYS:HE2	12	1.34
(1,286)	1:39:A:ARG:HD2	1:71:A:LEU:HD23	1	1.34
(1,279)	1:157:A:LYS:HG2	1:157:A:LYS:HE2	14	1.34
(1,231)	1:147:A:PRO:HB3	1:126:A:ILE:HD13	13	1.34
(1,208)	1:93:A:LEU:HD23	1:73:A:ARG:HB2	19	1.34
(1,117)	1:101:A:LEU:HD22	1:43:A:ILE:HG23	15	1.34
(1,117)	1:101:A:LEU:HD21	1:43:A:ILE:HG22	16	1.34
(1,3335)	1:124:A:LYS:HA	1:171:A:ILE:HG13	3	1.33
(1,3335)	1:124:A:LYS:HA	1:171:A:ILE:HG13	5	1.33
(1,3335)	1:124:A:LYS:HA	1:171:A:ILE:HG13	18	1.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3004)	1:165:A:GLN:HB2	1:162:A:SER:HA	3	1.33
(1,2987)	1:38:A:VAL:HG23	1:41:A:ASN:HD22	2	1.33
(1,2944)	1:53:A:MET:HE3	1:53:A:MET:HB2	13	1.33
(1,2944)	1:53:A:MET:HE1	1:53:A:MET:HB2	17	1.33
(1,2825)	1:32:A:ALA:HB3	1:29:A:SER:HB2	13	1.33
(1,2788)	1:158:A:GLU:HA	1:161:A:ASN:HB3	10	1.33
(1,2626)	1:153:A:HIS:HA	1:130:A:VAL:HG22	2	1.33
(1,2626)	1:153:A:HIS:HA	1:130:A:VAL:HG22	10	1.33
(1,2487)	1:19:A:LEU:HD12	1:19:A:LEU:HB2	6	1.33
(1,2487)	1:19:A:LEU:HD13	1:19:A:LEU:HB2	7	1.33
(1,2439)	1:28:A:ASP:HB2	1:25:A:GLY:HA3	17	1.33
(1,2366)	1:42:A:GLU:HG3	1:38:A:VAL:HG12	5	1.33
(1,2196)	1:35:A:GLU:HB2	1:38:A:VAL:HG23	8	1.33
(1,2196)	1:35:A:GLU:HB2	1:38:A:VAL:HG23	18	1.33
(1,1933)	1:70:A:LYS:HG3	1:36:A:LYS:HE2	9	1.33
(1,1830)	1:118:A:THR:HG23	1:79:A:LEU:HD13	9	1.33
(1,1827)	1:45:A:THR:HG21	1:42:A:GLU:HB2	3	1.33
(1,1822)	1:79:A:LEU:HD22	1:78:A:PHE:HA	14	1.33
(1,1822)	1:79:A:LEU:HD23	1:78:A:PHE:HA	19	1.33
(1,532)	1:94:A:LEU:H	1:93:A:LEU:HD11	1	1.33
(1,414)	1:128:A:ARG:HA	1:164:A:ILE:HD11	6	1.33
(1,276)	1:22:A:ASP:HB2	1:26:A:ALA:HB2	11	1.33
(1,248)	1:165:A:GLN:HG3	1:166:A:ILE:HG23	2	1.33
(1,231)	1:147:A:PRO:HB3	1:120:A:ILE:HG23	4	1.33
(1,231)	1:147:A:PRO:HB3	1:126:A:ILE:HD11	16	1.33
(1,117)	1:101:A:LEU:HD23	1:43:A:ILE:HG21	18	1.33
(1,62)	1:4:A:LYS:H	1:2:A:MET:HG2	5	1.33
(1,3523)	1:130:A:VAL:HG13	1:132:A:HIS:HD2	14	1.32
(1,3335)	1:124:A:LYS:HA	1:171:A:ILE:HG13	1	1.32
(1,3335)	1:124:A:LYS:HA	1:171:A:ILE:HG13	9	1.32
(1,3335)	1:124:A:LYS:HA	1:171:A:ILE:HG13	16	1.32
(1,3105)	1:39:A:ARG:HD3	1:39:A:ARG:HA	14	1.32
(1,3105)	1:39:A:ARG:HD3	1:39:A:ARG:HA	17	1.32
(1,2944)	1:53:A:MET:HE3	1:53:A:MET:HB2	2	1.32
(1,2944)	1:53:A:MET:HE3	1:53:A:MET:HB2	5	1.32
(1,2658)	1:138:A:PHE:HA	1:137:A:LEU:HD21	6	1.32
(1,2626)	1:153:A:HIS:HA	1:130:A:VAL:HG22	15	1.32
(1,2487)	1:19:A:LEU:HD11	1:19:A:LEU:HB2	14	1.32
(1,2460)	1:96:A:ASP:HB3	1:94:A:LEU:HB2	20	1.32
(1,2457)	1:87:A:LYS:HB2	1:87:A:LYS:HE2	1	1.32
(1,2457)	1:87:A:LYS:HB2	1:87:A:LYS:HE2	2	1.32
(1,2192)	1:15:A:GLN:HB2	1:18:A:SER:HA	3	1.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2187)	1:93:A:LEU:HD22	1:125:A:LEU:HD23	10	1.32
(1,2160)	1:107:A:LYS:HD3	1:109:A:ILE:HG21	8	1.32
(1,2118)	1:137:A:LEU:HD11	1:160:A:ARG:HA	14	1.32
(1,2118)	1:137:A:LEU:HD12	1:160:A:ARG:HA	19	1.32
(1,1926)	1:19:A:LEU:HD11	1:18:A:SER:HB2	2	1.32
(1,1827)	1:45:A:THR:HG23	1:42:A:GLU:HB2	4	1.32
(1,1827)	1:45:A:THR:HG23	1:42:A:GLU:HB2	6	1.32
(1,1827)	1:45:A:THR:HG23	1:42:A:GLU:HB2	9	1.32
(1,1827)	1:45:A:THR:HG22	1:42:A:GLU:HB2	13	1.32
(1,1827)	1:45:A:THR:HG23	1:42:A:GLU:HB2	15	1.32
(1,1822)	1:79:A:LEU:HD21	1:78:A:PHE:HA	5	1.32
(1,1813)	1:31:A:VAL:HG22	1:32:A:ALA:HB2	7	1.32
(1,1712)	1:119:A:VAL:HG21	1:99:A:VAL:HG13	8	1.32
(1,1613)	1:171:A:ILE:HG23	1:125:A:LEU:HD12	18	1.32
(1,1607)	1:142:A:MET:HE3	1:142:A:MET:HB3	1	1.32
(1,279)	1:157:A:LYS:HG2	1:157:A:LYS:HE2	3	1.32
(1,248)	1:165:A:GLN:HG3	1:166:A:ILE:HG21	11	1.32
(1,87)	1:9:A:GLU:H	1:8:A:VAL:HG11	14	1.32
(1,3523)	1:130:A:VAL:HG11	1:132:A:HIS:HD2	15	1.31
(1,3523)	1:130:A:VAL:HG13	1:132:A:HIS:HD2	17	1.31
(1,3490)	1:51:A:SER:HB2	1:110:A:PHE:HD2	10	1.31
(1,3396)	1:92:A:VAL:HA	1:73:A:ARG:HG3	13	1.31
(1,3204)	1:101:A:LEU:HA	1:99:A:VAL:HG13	2	1.31
(1,3204)	1:101:A:LEU:HA	1:99:A:VAL:HG11	4	1.31
(1,3105)	1:39:A:ARG:HD3	1:39:A:ARG:HA	10	1.31
(1,2825)	1:32:A:ALA:HB2	1:29:A:SER:HB2	15	1.31
(1,2626)	1:153:A:HIS:HA	1:130:A:VAL:HG23	9	1.31
(1,2457)	1:87:A:LYS:HB2	1:87:A:LYS:HE2	7	1.31
(1,2160)	1:107:A:LYS:HD3	1:109:A:ILE:HG23	6	1.31
(1,2128)	1:137:A:LEU:HD12	1:163:A:TRP:H	4	1.31
(1,1827)	1:45:A:THR:HG21	1:42:A:GLU:HB2	2	1.31
(1,1827)	1:45:A:THR:HG22	1:42:A:GLU:HB2	10	1.31
(1,1822)	1:79:A:LEU:HD21	1:78:A:PHE:HA	17	1.31
(1,1616)	1:171:A:ILE:HG23	1:124:A:LYS:HG3	2	1.31
(1,1613)	1:171:A:ILE:HG23	1:125:A:LEU:HD12	4	1.31
(1,1613)	1:171:A:ILE:HG22	1:125:A:LEU:HD11	13	1.31
(1,1607)	1:142:A:MET:HE3	1:142:A:MET:HB3	18	1.31
(1,247)	1:87:A:LYS:HB2	1:79:A:LEU:HD13	8	1.31
(1,117)	1:101:A:LEU:HD23	1:43:A:ILE:HG21	14	1.31
(1,58)	1:13:A:LEU:H	1:19:A:LEU:HD11	12	1.31
(1,3490)	1:51:A:SER:HB2	1:110:A:PHE:HD2	8	1.3
(1,3396)	1:92:A:VAL:HA	1:73:A:ARG:HG3	3	1.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3396)	1:92:A:VAL:HA	1:73:A:ARG:HG3	10	1.3
(1,3335)	1:124:A:LYS:HA	1:171:A:ILE:HG13	10	1.3
(1,3105)	1:39:A:ARG:HD3	1:39:A:ARG:HA	4	1.3
(1,3004)	1:165:A:GLN:HB2	1:162:A:SER:HA	5	1.3
(1,2963)	1:65:A:ASP:HB3	1:66:A:LEU:HB3	1	1.3
(1,2944)	1:53:A:MET:HE1	1:53:A:MET:HB2	4	1.3
(1,2811)	1:36:A:LYS:HA	1:36:A:LYS:HE3	17	1.3
(1,2788)	1:158:A:GLU:HA	1:161:A:ASN:HB3	8	1.3
(1,2788)	1:158:A:GLU:HA	1:161:A:ASN:HB3	11	1.3
(1,2196)	1:35:A:GLU:HB2	1:38:A:VAL:HG21	15	1.3
(1,2192)	1:15:A:GLN:HB2	1:18:A:SER:HA	7	1.3
(1,2190)	1:123:A:LYS:HD3	1:180:A:GLU:HA	16	1.3
(1,2133)	1:68:A:ARG:HG2	1:67:A:LYS:HD2	9	1.3
(1,2128)	1:137:A:LEU:HD12	1:163:A:TRP:H	3	1.3
(1,1927)	1:19:A:LEU:HD11	1:11:A:GLU:HA	16	1.3
(1,1827)	1:45:A:THR:HG23	1:42:A:GLU:HB2	8	1.3
(1,1801)	1:127:A:VAL:HG12	1:139:A:LEU:HD21	9	1.3
(1,1613)	1:171:A:ILE:HG22	1:125:A:LEU:HD11	8	1.3
(1,1613)	1:171:A:ILE:HG22	1:125:A:LEU:HD11	20	1.3
(1,1607)	1:142:A:MET:HE1	1:142:A:MET:HB3	11	1.3
(1,1607)	1:142:A:MET:HE3	1:142:A:MET:HB3	14	1.3
(1,370)	1:18:A:SER:HB2	1:19:A:LEU:HG	9	1.3
(1,248)	1:165:A:GLN:HG3	1:166:A:ILE:HG23	12	1.3
(1,247)	1:87:A:LYS:HB2	1:79:A:LEU:HD11	14	1.3
(1,212)	1:79:A:LEU:HD12	1:87:A:LYS:HD3	2	1.3
(1,3523)	1:130:A:VAL:HG11	1:132:A:HIS:HD2	1	1.29
(1,3335)	1:124:A:LYS:HA	1:171:A:ILE:HG13	19	1.29
(1,3211)	1:26:A:ALA:HB3	1:29:A:SER:HB3	5	1.29
(1,3204)	1:101:A:LEU:HA	1:99:A:VAL:HG13	17	1.29
(1,3176)	1:159:A:GLU:HG3	1:155:A:SER:HB2	8	1.29
(1,3105)	1:39:A:ARG:HD3	1:39:A:ARG:HA	9	1.29
(1,3003)	1:150:A:VAL:HG23	1:100:A:PHE:HZ	13	1.29
(1,3003)	1:150:A:VAL:HG22	1:100:A:PHE:HZ	17	1.29
(1,2811)	1:36:A:LYS:HA	1:36:A:LYS:HE3	6	1.29
(1,2457)	1:87:A:LYS:HB2	1:87:A:LYS:HE2	10	1.29
(1,2439)	1:28:A:ASP:HB2	1:25:A:GLY:HA3	20	1.29
(1,2368)	1:134:A:GLU:HG3	1:135:A:LYS:HG3	5	1.29
(1,2196)	1:35:A:GLU:HB2	1:38:A:VAL:HG22	7	1.29
(1,2187)	1:93:A:LEU:HD23	1:125:A:LEU:HD22	2	1.29
(1,2187)	1:93:A:LEU:HD22	1:125:A:LEU:HD22	19	1.29
(1,2141)	1:56:A:LYS:HD3	1:144:A:MET:HE1	17	1.29
(1,2128)	1:137:A:LEU:HD11	1:163:A:TRP:H	14	1.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2118)	1:137:A:LEU:HD13	1:160:A:ARG:HA	9	1.29
(1,1830)	1:118:A:THR:HG23	1:79:A:LEU:HD13	10	1.29
(1,1822)	1:79:A:LEU:HD22	1:78:A:PHE:HA	7	1.29
(1,1822)	1:79:A:LEU:HD22	1:78:A:PHE:HA	20	1.29
(1,1680)	1:130:A:VAL:HG23	1:136:A:GLY:HA2	8	1.29
(1,1629)	1:24:A:ILE:HG23	1:24:A:ILE:HG13	4	1.29
(1,1629)	1:24:A:ILE:HG21	1:24:A:ILE:HG13	11	1.29
(1,1613)	1:171:A:ILE:HG21	1:125:A:LEU:HD13	1	1.29
(1,1613)	1:171:A:ILE:HG21	1:125:A:LEU:HD11	16	1.29
(1,1607)	1:142:A:MET:HE1	1:142:A:MET:HB3	10	1.29
(1,1607)	1:142:A:MET:HE2	1:142:A:MET:HB3	12	1.29
(1,296)	1:19:A:LEU:HB2	1:15:A:GLN:HA	18	1.29
(1,213)	1:123:A:LYS:HD3	1:181:A:GLY:HA2	12	1.29
(1,117)	1:101:A:LEU:HD21	1:43:A:ILE:HG22	6	1.29
(1,117)	1:101:A:LEU:HD22	1:43:A:ILE:HG21	10	1.29
(1,3396)	1:92:A:VAL:HA	1:73:A:ARG:HG3	19	1.28
(1,3217)	1:46:A:LYS:HD2	1:43:A:ILE:HB	7	1.28
(1,3217)	1:46:A:LYS:HD2	1:43:A:ILE:HB	11	1.28
(1,3204)	1:101:A:LEU:HA	1:99:A:VAL:HG12	8	1.28
(1,3176)	1:159:A:GLU:HG3	1:155:A:SER:HB2	16	1.28
(1,3019)	1:115:A:GLN:HG2	1:114:A:ASP:HB2	11	1.28
(1,3003)	1:150:A:VAL:HG23	1:100:A:PHE:HZ	4	1.28
(1,2987)	1:38:A:VAL:HG22	1:41:A:ASN:HD22	8	1.28
(1,2811)	1:36:A:LYS:HA	1:36:A:LYS:HE3	3	1.28
(1,2811)	1:36:A:LYS:HA	1:36:A:LYS:HE3	15	1.28
(1,2658)	1:138:A:PHE:HA	1:137:A:LEU:HD23	8	1.28
(1,2658)	1:138:A:PHE:HA	1:137:A:LEU:HD21	10	1.28
(1,2492)	1:176:A:ARG:HB3	1:176:A:ARG:HD3	6	1.28
(1,2480)	1:69:A:LYS:HE3	1:97:A:ILE:HG13	13	1.28
(1,2457)	1:87:A:LYS:HB2	1:87:A:LYS:HE2	16	1.28
(1,2439)	1:28:A:ASP:HB2	1:25:A:GLY:HA3	19	1.28
(1,2366)	1:42:A:GLU:HG3	1:38:A:VAL:HG13	19	1.28
(1,2196)	1:35:A:GLU:HB2	1:38:A:VAL:HG22	10	1.28
(1,2160)	1:107:A:LYS:HD3	1:109:A:ILE:HG22	5	1.28
(1,2128)	1:137:A:LEU:HD13	1:163:A:TRP:H	9	1.28
(1,2118)	1:137:A:LEU:HD12	1:160:A:ARG:HA	20	1.28
(1,1629)	1:24:A:ILE:HG21	1:24:A:ILE:HG13	1	1.28
(1,1629)	1:24:A:ILE:HG22	1:24:A:ILE:HG13	3	1.28
(1,1629)	1:24:A:ILE:HG21	1:24:A:ILE:HG13	6	1.28
(1,1629)	1:24:A:ILE:HG23	1:24:A:ILE:HG13	8	1.28
(1,1629)	1:24:A:ILE:HG23	1:24:A:ILE:HG13	12	1.28
(1,1629)	1:24:A:ILE:HG21	1:24:A:ILE:HG13	14	1.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1629)	1:24:A:ILE:HG22	1:24:A:ILE:HG13	16	1.28
(1,1629)	1:24:A:ILE:HG21	1:24:A:ILE:HG13	18	1.28
(1,1629)	1:24:A:ILE:HG21	1:24:A:ILE:HG13	19	1.28
(1,1607)	1:142:A:MET:HE1	1:142:A:MET:HB3	7	1.28
(1,1318)	1:4:A:LYS:H	1:6:A:ASN:HD22	19	1.28
(1,231)	1:147:A:PRO:HB3	1:126:A:ILE:HD12	2	1.28
(1,212)	1:79:A:LEU:HD11	1:87:A:LYS:HD3	9	1.28
(1,197)	1:68:A:ARG:HG2	1:67:A:LYS:HE2	7	1.28
(2,16)	1:137:A:LEU:H	1:135:A:LYS:O	19	1.27
(1,3532)	1:153:A:HIS:HD2	1:133:A:GLU:HG3	17	1.27
(1,3396)	1:92:A:VAL:HA	1:73:A:ARG:HG3	1	1.27
(1,3335)	1:124:A:LYS:HA	1:171:A:ILE:HG13	20	1.27
(1,3217)	1:46:A:LYS:HD2	1:43:A:ILE:HB	8	1.27
(1,3004)	1:165:A:GLN:HB2	1:162:A:SER:HA	12	1.27
(1,2987)	1:38:A:VAL:HG21	1:41:A:ASN:HD22	11	1.27
(1,2987)	1:38:A:VAL:HG23	1:41:A:ASN:HD22	20	1.27
(1,2811)	1:36:A:LYS:HA	1:36:A:LYS:HE3	9	1.27
(1,2811)	1:36:A:LYS:HA	1:36:A:LYS:HE3	16	1.27
(1,2737)	1:134:A:GLU:HA	1:157:A:LYS:HG3	8	1.27
(1,2492)	1:176:A:ARG:HB3	1:176:A:ARG:HD3	3	1.27
(1,2492)	1:176:A:ARG:HB3	1:176:A:ARG:HD3	5	1.27
(1,2480)	1:69:A:LYS:HE3	1:97:A:ILE:HG13	17	1.27
(1,2457)	1:87:A:LYS:HB2	1:87:A:LYS:HE2	9	1.27
(1,2359)	1:134:A:GLU:HG3	1:157:A:LYS:HB3	9	1.27
(1,2196)	1:35:A:GLU:HB2	1:38:A:VAL:HG22	12	1.27
(1,2192)	1:15:A:GLN:HB2	1:18:A:SER:HA	4	1.27
(1,2133)	1:68:A:ARG:HG2	1:67:A:LYS:HD2	18	1.27
(1,2128)	1:137:A:LEU:HD12	1:163:A:TRP:H	19	1.27
(1,2118)	1:137:A:LEU:HD12	1:160:A:ARG:HA	3	1.27
(1,2118)	1:137:A:LEU:HD11	1:160:A:ARG:HA	15	1.27
(1,2118)	1:137:A:LEU:HD12	1:160:A:ARG:HA	17	1.27
(1,2068)	1:137:A:LEU:HD21	1:129:A:GLU:HA	18	1.27
(1,2038)	1:123:A:LYS:HG2	1:171:A:ILE:HG12	15	1.27
(1,1972)	1:66:A:LEU:HD12	1:101:A:LEU:HD12	7	1.27
(1,1933)	1:70:A:LYS:HG3	1:36:A:LYS:HE2	19	1.27
(1,1879)	1:67:A:LYS:H	1:66:A:LEU:HD23	7	1.27
(1,1844)	1:170:A:THR:HG21	1:122:A:LEU:HD21	6	1.27
(1,1827)	1:45:A:THR:HG21	1:42:A:GLU:HB2	1	1.27
(1,1822)	1:79:A:LEU:HD21	1:78:A:PHE:HA	3	1.27
(1,1629)	1:24:A:ILE:HG23	1:24:A:ILE:HG13	5	1.27
(1,1629)	1:24:A:ILE:HG22	1:24:A:ILE:HG13	7	1.27
(1,1629)	1:24:A:ILE:HG21	1:24:A:ILE:HG13	9	1.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1629)	1:24:A:ILE:HG21	1:24:A:ILE:HG13	10	1.27
(1,1629)	1:24:A:ILE:HG23	1:24:A:ILE:HG13	13	1.27
(1,1629)	1:24:A:ILE:HG23	1:24:A:ILE:HG13	15	1.27
(1,1629)	1:24:A:ILE:HG21	1:24:A:ILE:HG13	17	1.27
(1,1629)	1:24:A:ILE:HG23	1:24:A:ILE:HG13	20	1.27
(1,247)	1:87:A:LYS:HB2	1:79:A:LEU:HD11	1	1.27
(1,247)	1:87:A:LYS:HB2	1:79:A:LEU:HD11	6	1.27
(1,247)	1:87:A:LYS:HB2	1:79:A:LEU:HD13	7	1.27
(1,212)	1:79:A:LEU:HD12	1:87:A:LYS:HD3	19	1.27
(1,9)	1:98:A:LEU:H	1:120:A:ILE:HG23	13	1.27
(1,3523)	1:130:A:VAL:HG11	1:132:A:HIS:HD2	13	1.26
(1,3490)	1:51:A:SER:HB2	1:110:A:PHE:HD2	2	1.26
(1,3396)	1:92:A:VAL:HA	1:73:A:ARG:HG3	9	1.26
(1,3396)	1:92:A:VAL:HA	1:73:A:ARG:HG3	12	1.26
(1,3361)	1:157:A:LYS:HA	1:160:A:ARG:HB2	5	1.26
(1,3220)	1:127:A:VAL:HG22	1:164:A:ILE:H	20	1.26
(1,3204)	1:101:A:LEU:HA	1:99:A:VAL:HG12	18	1.26
(1,3110)	1:36:A:LYS:HE2	1:33:A:SER:HB3	20	1.26
(1,3105)	1:39:A:ARG:HD3	1:39:A:ARG:HA	20	1.26
(1,3004)	1:165:A:GLN:HB2	1:162:A:SER:HA	1	1.26
(1,3004)	1:165:A:GLN:HB2	1:162:A:SER:HA	16	1.26
(1,3003)	1:150:A:VAL:HG23	1:100:A:PHE:HZ	16	1.26
(1,2987)	1:38:A:VAL:HG21	1:41:A:ASN:HD22	10	1.26
(1,2811)	1:36:A:LYS:HA	1:36:A:LYS:HE3	4	1.26
(1,2811)	1:36:A:LYS:HA	1:36:A:LYS:HE3	10	1.26
(1,2788)	1:158:A:GLU:HA	1:161:A:ASN:HB3	12	1.26
(1,2457)	1:87:A:LYS:HB2	1:87:A:LYS:HE2	3	1.26
(1,2457)	1:87:A:LYS:HB2	1:87:A:LYS:HE2	6	1.26
(1,2457)	1:87:A:LYS:HB2	1:87:A:LYS:HE2	12	1.26
(1,2457)	1:87:A:LYS:HB2	1:87:A:LYS:HE2	14	1.26
(1,2439)	1:28:A:ASP:HB2	1:25:A:GLY:HA3	14	1.26
(1,2366)	1:42:A:GLU:HG3	1:38:A:VAL:HG13	13	1.26
(1,2251)	1:11:A:GLU:HB2	1:19:A:LEU:HD12	20	1.26
(1,2118)	1:137:A:LEU:HD12	1:160:A:ARG:HA	4	1.26
(1,2118)	1:137:A:LEU:HD11	1:160:A:ARG:HA	6	1.26
(1,2090)	1:128:A:ARG:HG2	1:140:A:ILE:HD11	19	1.26
(1,1844)	1:170:A:THR:HG22	1:122:A:LEU:HD23	7	1.26
(1,1830)	1:118:A:THR:HG22	1:79:A:LEU:HD13	4	1.26
(1,1827)	1:45:A:THR:HG23	1:42:A:GLU:HB2	16	1.26
(1,1822)	1:79:A:LEU:HD21	1:78:A:PHE:HA	13	1.26
(1,1728)	1:31:A:VAL:HG11	1:35:A:GLU:HG3	13	1.26
(1,1629)	1:24:A:ILE:HG21	1:24:A:ILE:HG13	2	1.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1030)	1:138:A:PHE:H	1:130:A:VAL:HG21	8	1.26
(1,898)	1:176:A:ARG:H	1:176:A:ARG:HD3	1	1.26
(1,491)	1:76:A:SER:HB2	1:89:A:VAL:HG23	9	1.26
(1,414)	1:128:A:ARG:HA	1:164:A:ILE:HD12	18	1.26
(1,247)	1:87:A:LYS:HB2	1:79:A:LEU:HD12	11	1.26
(1,247)	1:87:A:LYS:HB2	1:79:A:LEU:HD13	13	1.26
(1,117)	1:101:A:LEU:HD21	1:43:A:ILE:HG21	11	1.26
(1,3468)	1:138:A:PHE:HD1	1:151:A:GLU:HG3	5	1.25
(1,3217)	1:46:A:LYS:HD2	1:43:A:ILE:HB	16	1.25
(1,3211)	1:26:A:ALA:HB1	1:29:A:SER:HB3	9	1.25
(1,3211)	1:26:A:ALA:HB3	1:29:A:SER:HB3	12	1.25
(1,2987)	1:38:A:VAL:HG21	1:41:A:ASN:HD22	16	1.25
(1,2811)	1:36:A:LYS:HA	1:36:A:LYS:HE3	11	1.25
(1,2658)	1:138:A:PHE:HA	1:137:A:LEU:HD22	11	1.25
(1,2658)	1:138:A:PHE:HA	1:137:A:LEU:HD22	19	1.25
(1,2626)	1:153:A:HIS:HA	1:130:A:VAL:HG23	13	1.25
(1,2465)	1:50:A:LYS:HG2	1:50:A:LYS:HE3	10	1.25
(1,2457)	1:87:A:LYS:HB2	1:87:A:LYS:HE2	11	1.25
(1,2457)	1:87:A:LYS:HB2	1:87:A:LYS:HE2	20	1.25
(1,2368)	1:134:A:GLU:HG3	1:135:A:LYS:HG3	2	1.25
(1,2366)	1:42:A:GLU:HG3	1:38:A:VAL:HG13	1	1.25
(1,2118)	1:137:A:LEU:HD12	1:160:A:ARG:HA	2	1.25
(1,1933)	1:70:A:LYS:HG3	1:36:A:LYS:HE2	7	1.25
(1,1933)	1:70:A:LYS:HG3	1:36:A:LYS:HE2	8	1.25
(1,1822)	1:79:A:LEU:HD23	1:78:A:PHE:HA	1	1.25
(1,1730)	1:31:A:VAL:HG11	1:31:A:VAL:HA	5	1.25
(1,1730)	1:31:A:VAL:HG12	1:31:A:VAL:HA	13	1.25
(1,1730)	1:31:A:VAL:HG12	1:31:A:VAL:HA	16	1.25
(1,1712)	1:119:A:VAL:HG23	1:99:A:VAL:HG13	16	1.25
(1,1613)	1:171:A:ILE:HG22	1:125:A:LEU:HD12	6	1.25
(1,1613)	1:171:A:ILE:HG21	1:125:A:LEU:HD12	7	1.25
(1,1607)	1:142:A:MET:HE3	1:142:A:MET:HB3	8	1.25
(1,1607)	1:142:A:MET:HE1	1:142:A:MET:HB3	9	1.25
(1,1607)	1:142:A:MET:HE2	1:142:A:MET:HB3	20	1.25
(1,414)	1:128:A:ARG:HA	1:164:A:ILE:HD12	4	1.25
(1,247)	1:87:A:LYS:HB2	1:79:A:LEU:HD12	2	1.25
(1,247)	1:87:A:LYS:HB2	1:79:A:LEU:HD11	5	1.25
(1,247)	1:87:A:LYS:HB2	1:79:A:LEU:HD11	16	1.25
(1,247)	1:87:A:LYS:HB2	1:79:A:LEU:HD13	17	1.25
(1,231)	1:147:A:PRO:HB3	1:126:A:ILE:HD12	8	1.25
(1,212)	1:79:A:LEU:HD11	1:87:A:LYS:HD3	5	1.25
(1,212)	1:79:A:LEU:HD13	1:87:A:LYS:HD3	17	1.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,163)	1:40:A:LEU:HD11	1:44:A:TYR:HB2	1	1.25
(1,117)	1:101:A:LEU:HD23	1:43:A:ILE:HG21	4	1.25
(1,117)	1:101:A:LEU:HD22	1:43:A:ILE:HG23	5	1.25
(1,3217)	1:46:A:LYS:HD2	1:43:A:ILE:HB	12	1.24
(1,3176)	1:159:A:GLU:HG3	1:155:A:SER:HB2	7	1.24
(1,3004)	1:165:A:GLN:HB2	1:162:A:SER:HA	14	1.24
(1,2987)	1:38:A:VAL:HG23	1:41:A:ASN:HD22	3	1.24
(1,2836)	1:141:A:SER:HB2	1:147:A:PRO:HB2	2	1.24
(1,2811)	1:36:A:LYS:HA	1:36:A:LYS:HE3	8	1.24
(1,2811)	1:36:A:LYS:HA	1:36:A:LYS:HE3	20	1.24
(1,2658)	1:138:A:PHE:HA	1:137:A:LEU:HD23	9	1.24
(1,2658)	1:138:A:PHE:HA	1:137:A:LEU:HD21	12	1.24
(1,2626)	1:153:A:HIS:HA	1:130:A:VAL:HG23	19	1.24
(1,2520)	1:73:A:ARG:HD2	1:163:A:TRP:HZ2	6	1.24
(1,2520)	1:73:A:ARG:HD2	1:163:A:TRP:HZ2	13	1.24
(1,2480)	1:69:A:LYS:HE3	1:97:A:ILE:HG13	4	1.24
(1,2480)	1:69:A:LYS:HE3	1:97:A:ILE:HG13	7	1.24
(1,2465)	1:50:A:LYS:HG2	1:50:A:LYS:HE3	2	1.24
(1,2439)	1:28:A:ASP:HB2	1:25:A:GLY:HA3	11	1.24
(1,2439)	1:28:A:ASP:HB2	1:25:A:GLY:HA3	15	1.24
(1,2160)	1:107:A:LYS:HD3	1:109:A:ILE:HG23	12	1.24
(1,2128)	1:137:A:LEU:HD11	1:163:A:TRP:H	16	1.24
(1,2128)	1:137:A:LEU:HD12	1:163:A:TRP:H	20	1.24
(1,2118)	1:137:A:LEU:HD12	1:160:A:ARG:HA	1	1.24
(1,2118)	1:137:A:LEU:HD12	1:160:A:ARG:HA	13	1.24
(1,1844)	1:170:A:THR:HG22	1:122:A:LEU:HD23	2	1.24
(1,1844)	1:170:A:THR:HG21	1:122:A:LEU:HD22	16	1.24
(1,1730)	1:31:A:VAL:HG12	1:31:A:VAL:HA	1	1.24
(1,1730)	1:31:A:VAL:HG13	1:31:A:VAL:HA	8	1.24
(1,1730)	1:31:A:VAL:HG11	1:31:A:VAL:HA	9	1.24
(1,1730)	1:31:A:VAL:HG12	1:31:A:VAL:HA	15	1.24
(1,1728)	1:31:A:VAL:HG11	1:35:A:GLU:HG3	2	1.24
(1,1613)	1:171:A:ILE:HG21	1:125:A:LEU:HD11	10	1.24
(1,1318)	1:4:A:LYS:H	1:6:A:ASN:HD22	4	1.24
(1,898)	1:176:A:ARG:H	1:176:A:ARG:HD3	4	1.24
(1,464)	1:112:A:SER:HB3	1:118:A:THR:HG22	11	1.24
(1,462)	1:94:A:LEU:HD23	1:93:A:LEU:H	19	1.24
(1,256)	1:64:A:GLU:HG3	1:67:A:LYS:HD3	7	1.24
(1,247)	1:87:A:LYS:HB2	1:79:A:LEU:HD11	9	1.24
(1,247)	1:87:A:LYS:HB2	1:79:A:LEU:HD11	15	1.24
(1,247)	1:87:A:LYS:HB2	1:79:A:LEU:HD13	18	1.24
(1,212)	1:79:A:LEU:HD13	1:87:A:LYS:HD3	18	1.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,163)	1:40:A:LEU:HD12	1:44:A:TYR:HB2	7	1.24
(2,8)	1:92:A:VAL:H	1:99:A:VAL:O	16	1.23
(1,3396)	1:92:A:VAL:HA	1:73:A:ARG:HG3	4	1.23
(1,3396)	1:92:A:VAL:HA	1:73:A:ARG:HG3	5	1.23
(1,3361)	1:157:A:LYS:HA	1:160:A:ARG:HB2	17	1.23
(1,3335)	1:124:A:LYS:HA	1:171:A:ILE:HG13	7	1.23
(1,3335)	1:124:A:LYS:HA	1:171:A:ILE:HG13	17	1.23
(1,3109)	1:36:A:LYS:HE3	1:33:A:SER:HB3	20	1.23
(1,2811)	1:36:A:LYS:HA	1:36:A:LYS:HE3	1	1.23
(1,2811)	1:36:A:LYS:HA	1:36:A:LYS:HE3	14	1.23
(1,2658)	1:138:A:PHE:HA	1:137:A:LEU:HD22	7	1.23
(1,2658)	1:138:A:PHE:HA	1:137:A:LEU:HD23	16	1.23
(1,2461)	1:96:A:ASP:HB2	1:185:A:GLU:HB3	15	1.23
(1,2128)	1:137:A:LEU:HD11	1:163:A:TRP:H	15	1.23
(1,1946)	1:50:A:LYS:HG2	1:60:A:MET:HE3	2	1.23
(1,1730)	1:31:A:VAL:HG12	1:31:A:VAL:HA	3	1.23
(1,1730)	1:31:A:VAL:HG11	1:31:A:VAL:HA	10	1.23
(1,1730)	1:31:A:VAL:HG12	1:31:A:VAL:HA	11	1.23
(1,1730)	1:31:A:VAL:HG12	1:31:A:VAL:HA	17	1.23
(1,1607)	1:142:A:MET:HE2	1:142:A:MET:HB3	16	1.23
(1,1135)	1:66:A:LEU:H	1:66:A:LEU:HD23	7	1.23
(1,416)	1:18:A:SER:HA	1:24:A:ILE:HD12	18	1.23
(1,256)	1:64:A:GLU:HG2	1:67:A:LYS:HD3	1	1.23
(1,256)	1:64:A:GLU:HG3	1:67:A:LYS:HD3	12	1.23
(1,247)	1:87:A:LYS:HB2	1:79:A:LEU:HD12	3	1.23
(1,247)	1:87:A:LYS:HB2	1:79:A:LEU:HD11	4	1.23
(1,231)	1:147:A:PRO:HB3	1:126:A:ILE:HD11	5	1.23
(1,212)	1:79:A:LEU:HD11	1:87:A:LYS:HD3	14	1.23
(2,8)	1:92:A:VAL:H	1:99:A:VAL:O	13	1.22
(1,3523)	1:130:A:VAL:HG13	1:132:A:HIS:HD2	5	1.22
(1,3490)	1:51:A:SER:HB2	1:110:A:PHE:HD2	17	1.22
(1,3335)	1:124:A:LYS:HA	1:171:A:ILE:HG13	12	1.22
(1,3220)	1:127:A:VAL:HG22	1:164:A:ILE:H	10	1.22
(1,3217)	1:46:A:LYS:HD2	1:43:A:ILE:HB	6	1.22
(1,3217)	1:46:A:LYS:HD2	1:43:A:ILE:HB	18	1.22
(1,3217)	1:46:A:LYS:HD2	1:43:A:ILE:HB	19	1.22
(1,3004)	1:165:A:GLN:HB2	1:162:A:SER:HA	10	1.22
(1,2658)	1:138:A:PHE:HA	1:137:A:LEU:HD23	15	1.22
(1,2626)	1:153:A:HIS:HA	1:130:A:VAL:HG22	14	1.22
(1,2577)	1:139:A:LEU:HD23	1:139:A:LEU:HA	6	1.22
(1,2392)	1:159:A:GLU:HG3	1:77:A:VAL:HG13	5	1.22
(1,2364)	1:134:A:GLU:HG2	1:157:A:LYS:HB3	13	1.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2133)	1:68:A:ARG:HG2	1:67:A:LYS:HD2	6	1.22
(1,2128)	1:137:A:LEU:HD11	1:163:A:TRP:H	10	1.22
(1,2118)	1:137:A:LEU:HD11	1:160:A:ARG:HA	16	1.22
(1,1946)	1:50:A:LYS:HG2	1:60:A:MET:HE3	4	1.22
(1,1933)	1:70:A:LYS:HG3	1:36:A:LYS:HE2	3	1.22
(1,1933)	1:70:A:LYS:HG3	1:36:A:LYS:HE2	11	1.22
(1,1822)	1:79:A:LEU:HD21	1:78:A:PHE:HA	4	1.22
(1,1822)	1:79:A:LEU:HD22	1:78:A:PHE:HA	8	1.22
(1,1730)	1:31:A:VAL:HG12	1:31:A:VAL:HA	2	1.22
(1,1730)	1:31:A:VAL:HG11	1:31:A:VAL:HA	4	1.22
(1,1730)	1:31:A:VAL:HG13	1:31:A:VAL:HA	6	1.22
(1,1730)	1:31:A:VAL:HG12	1:31:A:VAL:HA	7	1.22
(1,1730)	1:31:A:VAL:HG13	1:31:A:VAL:HA	14	1.22
(1,1730)	1:31:A:VAL:HG11	1:31:A:VAL:HA	18	1.22
(1,1725)	1:8:A:VAL:HG23	1:8:A:VAL:HA	4	1.22
(1,1712)	1:119:A:VAL:HG23	1:99:A:VAL:HG13	10	1.22
(1,1607)	1:142:A:MET:HE1	1:142:A:MET:HB3	5	1.22
(1,701)	1:137:A:LEU:H	1:130:A:VAL:HG23	7	1.22
(1,414)	1:128:A:ARG:HA	1:164:A:ILE:HD11	3	1.22
(1,212)	1:79:A:LEU:HD13	1:87:A:LYS:HD3	7	1.22
(1,212)	1:79:A:LEU:HD13	1:87:A:LYS:HD3	13	1.22
(1,212)	1:79:A:LEU:HD11	1:87:A:LYS:HD3	15	1.22
(2,8)	1:92:A:VAL:H	1:99:A:VAL:O	6	1.21
(2,8)	1:92:A:VAL:H	1:99:A:VAL:O	17	1.21
(1,3533)	1:130:A:VAL:HG21	1:153:A:HIS:HD2	20	1.21
(1,3217)	1:46:A:LYS:HD2	1:43:A:ILE:HB	1	1.21
(1,3217)	1:46:A:LYS:HD2	1:43:A:ILE:HB	5	1.21
(1,3217)	1:46:A:LYS:HD2	1:43:A:ILE:HB	9	1.21
(1,3204)	1:101:A:LEU:HA	1:99:A:VAL:HG11	1	1.21
(1,2987)	1:38:A:VAL:HG22	1:41:A:ASN:HD22	9	1.21
(1,2952)	1:144:A:MET:HE3	1:144:A:MET:HG2	6	1.21
(1,2952)	1:144:A:MET:HE1	1:144:A:MET:HG2	11	1.21
(1,2811)	1:36:A:LYS:HA	1:36:A:LYS:HE3	7	1.21
(1,2658)	1:138:A:PHE:HA	1:137:A:LEU:HD22	1	1.21
(1,2658)	1:138:A:PHE:HA	1:137:A:LEU:HD22	2	1.21
(1,2658)	1:138:A:PHE:HA	1:137:A:LEU:HD22	4	1.21
(1,2577)	1:139:A:LEU:HD22	1:139:A:LEU:HA	13	1.21
(1,2392)	1:159:A:GLU:HG3	1:77:A:VAL:HG13	8	1.21
(1,2187)	1:93:A:LEU:HD23	1:125:A:LEU:HD23	17	1.21
(1,2128)	1:137:A:LEU:HD12	1:163:A:TRP:H	2	1.21
(1,1827)	1:45:A:THR:HG22	1:42:A:GLU:HB2	17	1.21
(1,1822)	1:79:A:LEU:HD23	1:78:A:PHE:HA	15	1.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1801)	1:127:A:VAL:HG13	1:139:A:LEU:HD22	3	1.21
(1,1730)	1:31:A:VAL:HG12	1:31:A:VAL:HA	12	1.21
(1,1730)	1:31:A:VAL:HG11	1:31:A:VAL:HA	19	1.21
(1,954)	1:139:A:LEU:H	1:137:A:LEU:HD21	4	1.21
(1,954)	1:139:A:LEU:H	1:137:A:LEU:HD21	6	1.21
(1,898)	1:176:A:ARG:H	1:176:A:ARG:HD3	10	1.21
(1,276)	1:22:A:ASP:HB2	1:26:A:ALA:HB2	9	1.21
(1,247)	1:87:A:LYS:HB2	1:79:A:LEU:HD12	19	1.21
(1,231)	1:147:A:PRO:HB3	1:126:A:ILE:HD12	12	1.21
(2,8)	1:92:A:VAL:H	1:99:A:VAL:O	9	1.2
(1,3533)	1:130:A:VAL:HG21	1:153:A:HIS:HD2	6	1.2
(1,3217)	1:46:A:LYS:HD2	1:43:A:ILE:HB	3	1.2
(1,3004)	1:165:A:GLN:HB2	1:162:A:SER:HA	4	1.2
(1,2952)	1:144:A:MET:HE2	1:144:A:MET:HG2	2	1.2
(1,2952)	1:144:A:MET:HE3	1:144:A:MET:HG2	17	1.2
(1,2811)	1:36:A:LYS:HA	1:36:A:LYS:HE3	2	1.2
(1,2811)	1:36:A:LYS:HA	1:36:A:LYS:HE3	12	1.2
(1,2811)	1:36:A:LYS:HA	1:36:A:LYS:HE3	18	1.2
(1,2737)	1:134:A:GLU:HA	1:157:A:LYS:HG3	16	1.2
(1,2658)	1:138:A:PHE:HA	1:137:A:LEU:HD21	3	1.2
(1,2658)	1:138:A:PHE:HA	1:137:A:LEU:HD23	5	1.2
(1,2645)	1:142:A:MET:HA	1:147:A:PRO:HG2	15	1.2
(1,2626)	1:153:A:HIS:HA	1:130:A:VAL:HG23	17	1.2
(1,2520)	1:73:A:ARG:HD2	1:163:A:TRP:HZ2	3	1.2
(1,2492)	1:176:A:ARG:HB3	1:176:A:ARG:HD3	13	1.2
(1,2439)	1:28:A:ASP:HB2	1:25:A:GLY:HA3	6	1.2
(1,2439)	1:28:A:ASP:HB2	1:25:A:GLY:HA3	9	1.2
(1,2359)	1:134:A:GLU:HG3	1:157:A:LYS:HB3	13	1.2
(1,2133)	1:68:A:ARG:HG2	1:67:A:LYS:HD2	5	1.2
(1,2133)	1:68:A:ARG:HG2	1:67:A:LYS:HD2	14	1.2
(1,2128)	1:137:A:LEU:HD11	1:163:A:TRP:H	7	1.2
(1,2038)	1:123:A:LYS:HG2	1:171:A:ILE:HG12	6	1.2
(1,2019)	1:170:A:THR:HG21	1:93:A:LEU:HD12	5	1.2
(1,1801)	1:127:A:VAL:HG13	1:139:A:LEU:HD21	8	1.2
(1,1730)	1:31:A:VAL:HG11	1:31:A:VAL:HA	20	1.2
(1,1728)	1:31:A:VAL:HG11	1:35:A:GLU:HG3	17	1.2
(1,1607)	1:142:A:MET:HE1	1:142:A:MET:HB3	2	1.2
(1,1607)	1:142:A:MET:HE1	1:142:A:MET:HB3	15	1.2
(1,1425)	1:181:A:GLY:H	1:182:A:ILE:H	16	1.2
(1,701)	1:137:A:LEU:H	1:130:A:VAL:HG23	9	1.2
(1,388)	1:128:A:ARG:HB3	1:126:A:ILE:HD11	8	1.2
(1,370)	1:18:A:SER:HB2	1:19:A:LEU:HG	19	1.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,247)	1:87:A:LYS:HB2	1:79:A:LEU:HD11	10	1.2
(1,212)	1:79:A:LEU:HD11	1:87:A:LYS:HD3	16	1.2
(1,3523)	1:130:A:VAL:HG11	1:132:A:HIS:HD2	3	1.19
(1,3468)	1:138:A:PHE:HD1	1:151:A:GLU:HG3	7	1.19
(1,3344)	1:149:A:MET:HE2	1:140:A:ILE:HG13	11	1.19
(1,3220)	1:127:A:VAL:HG23	1:164:A:ILE:H	12	1.19
(1,3217)	1:46:A:LYS:HD2	1:43:A:ILE:HB	14	1.19
(1,3217)	1:46:A:LYS:HD2	1:43:A:ILE:HB	17	1.19
(1,3217)	1:46:A:LYS:HD2	1:43:A:ILE:HB	20	1.19
(1,3152)	1:97:A:ILE:HD13	1:65:A:ASP:HB3	18	1.19
(1,2987)	1:38:A:VAL:HG22	1:41:A:ASN:HD22	4	1.19
(1,2987)	1:38:A:VAL:HG22	1:41:A:ASN:HD22	18	1.19
(1,2984)	1:36:A:LYS:HE3	1:36:A:LYS:HB3	1	1.19
(1,2944)	1:53:A:MET:HE1	1:53:A:MET:HB2	8	1.19
(1,2811)	1:36:A:LYS:HA	1:36:A:LYS:HE3	5	1.19
(1,2811)	1:36:A:LYS:HA	1:36:A:LYS:HE3	13	1.19
(1,2645)	1:142:A:MET:HA	1:147:A:PRO:HG2	3	1.19
(1,2520)	1:73:A:ARG:HD2	1:163:A:TRP:HZ2	2	1.19
(1,2439)	1:28:A:ASP:HB2	1:25:A:GLY:HA3	8	1.19
(1,2368)	1:134:A:GLU:HG3	1:135:A:LYS:HG3	3	1.19
(1,2190)	1:123:A:LYS:HD3	1:180:A:GLU:HA	12	1.19
(1,2128)	1:137:A:LEU:HD12	1:163:A:TRP:H	1	1.19
(1,2128)	1:137:A:LEU:HD12	1:163:A:TRP:H	17	1.19
(1,2118)	1:137:A:LEU:HD13	1:160:A:ARG:HA	18	1.19
(1,2090)	1:128:A:ARG:HG2	1:140:A:ILE:HD11	5	1.19
(1,2038)	1:123:A:LYS:HG2	1:171:A:ILE:HG12	17	1.19
(1,1933)	1:70:A:LYS:HG3	1:36:A:LYS:HE2	1	1.19
(1,1925)	1:139:A:LEU:HD23	1:137:A:LEU:HG	13	1.19
(1,1712)	1:119:A:VAL:HG21	1:99:A:VAL:HG11	15	1.19
(1,1607)	1:142:A:MET:HE2	1:142:A:MET:HB3	4	1.19
(1,1088)	1:166:A:ILE:H	1:166:A:ILE:HD13	19	1.19
(1,701)	1:137:A:LEU:H	1:130:A:VAL:HG21	16	1.19
(1,380)	1:171:A:ILE:HA	1:125:A:LEU:HD12	18	1.19
(1,247)	1:87:A:LYS:HB2	1:79:A:LEU:HD13	20	1.19
(1,210)	1:70:A:LYS:HD2	1:8:A:VAL:HG11	9	1.19
(2,8)	1:92:A:VAL:H	1:99:A:VAL:O	20	1.18
(1,3335)	1:124:A:LYS:HA	1:171:A:ILE:HG13	15	1.18
(1,3233)	1:86:A:LEU:HD21	1:78:A:PHE:HE2	3	1.18
(1,3217)	1:46:A:LYS:HD2	1:43:A:ILE:HB	2	1.18
(1,2987)	1:38:A:VAL:HG22	1:41:A:ASN:HD22	6	1.18
(1,2987)	1:38:A:VAL:HG21	1:41:A:ASN:HD22	7	1.18
(1,2987)	1:38:A:VAL:HG23	1:41:A:ASN:HD22	13	1.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2952)	1:144:A:MET:HE3	1:144:A:MET:HG2	18	1.18
(1,2769)	1:159:A:GLU:HA	1:158:A:GLU:HG3	17	1.18
(1,2658)	1:138:A:PHE:HA	1:137:A:LEU:HD21	20	1.18
(1,2439)	1:28:A:ASP:HB2	1:25:A:GLY:HA3	3	1.18
(1,2439)	1:28:A:ASP:HB2	1:25:A:GLY:HA3	16	1.18
(1,2392)	1:159:A:GLU:HG3	1:77:A:VAL:HG13	13	1.18
(1,2392)	1:159:A:GLU:HG3	1:77:A:VAL:HG11	16	1.18
(1,2250)	1:119:A:VAL:HG23	1:53:A:MET:HG3	8	1.18
(1,1830)	1:118:A:THR:HG21	1:79:A:LEU:HD11	2	1.18
(1,1822)	1:79:A:LEU:HD22	1:78:A:PHE:HA	6	1.18
(1,1792)	1:122:A:LEU:HD13	1:122:A:LEU:HA	4	1.18
(1,1725)	1:8:A:VAL:HG21	1:8:A:VAL:HA	10	1.18
(1,1725)	1:8:A:VAL:HG22	1:8:A:VAL:HA	15	1.18
(1,1607)	1:142:A:MET:HE3	1:142:A:MET:HB3	3	1.18
(1,1135)	1:66:A:LEU:H	1:66:A:LEU:HD23	1	1.18
(1,954)	1:139:A:LEU:H	1:137:A:LEU:HD22	7	1.18
(1,701)	1:137:A:LEU:H	1:130:A:VAL:HG21	6	1.18
(1,453)	1:92:A:VAL:HG13	1:43:A:ILE:HG12	6	1.18
(1,419)	1:117:A:SER:HB3	1:120:A:ILE:HD12	12	1.18
(1,367)	1:121:A:SER:HB2	1:185:A:GLU:HA	20	1.18
(1,256)	1:64:A:GLU:HG2	1:67:A:LYS:HD3	19	1.18
(1,212)	1:79:A:LEU:HD11	1:87:A:LYS:HD3	4	1.18
(1,199)	1:50:A:LYS:HD2	1:50:A:LYS:HB2	17	1.18
(2,8)	1:92:A:VAL:H	1:99:A:VAL:O	2	1.17
(2,8)	1:92:A:VAL:H	1:99:A:VAL:O	8	1.17
(2,8)	1:92:A:VAL:H	1:99:A:VAL:O	11	1.17
(2,8)	1:92:A:VAL:H	1:99:A:VAL:O	14	1.17
(2,8)	1:92:A:VAL:H	1:99:A:VAL:O	15	1.17
(1,3419)	1:135:A:LYS:HD3	1:135:A:LYS:HA	2	1.17
(1,3220)	1:127:A:VAL:HG22	1:164:A:ILE:H	17	1.17
(1,2952)	1:144:A:MET:HE3	1:144:A:MET:HG2	7	1.17
(1,2952)	1:144:A:MET:HE2	1:144:A:MET:HG2	12	1.17
(1,2952)	1:144:A:MET:HE1	1:144:A:MET:HG2	13	1.17
(1,2890)	1:47:A:THR:HG21	1:108:A:TYR:HB3	19	1.17
(1,2609)	1:107:A:LYS:HA	1:46:A:LYS:HD3	19	1.17
(1,2520)	1:73:A:ARG:HD2	1:163:A:TRP:HZ2	1	1.17
(1,2520)	1:73:A:ARG:HD2	1:163:A:TRP:HZ2	5	1.17
(1,2520)	1:73:A:ARG:HD2	1:163:A:TRP:HZ2	10	1.17
(1,2520)	1:73:A:ARG:HD2	1:163:A:TRP:HZ2	11	1.17
(1,2520)	1:73:A:ARG:HD2	1:163:A:TRP:HZ2	16	1.17
(1,2520)	1:73:A:ARG:HD2	1:163:A:TRP:HZ2	17	1.17
(1,2520)	1:73:A:ARG:HD2	1:163:A:TRP:HZ2	19	1.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2448)	1:46:A:LYS:HE2	1:47:A:THR:HG23	19	1.17
(1,2439)	1:28:A:ASP:HB2	1:25:A:GLY:HA3	4	1.17
(1,2439)	1:28:A:ASP:HB2	1:25:A:GLY:HA3	7	1.17
(1,2392)	1:159:A:GLU:HG3	1:77:A:VAL:HG13	6	1.17
(1,2392)	1:159:A:GLU:HG3	1:77:A:VAL:HG13	20	1.17
(1,2024)	1:94:A:LEU:HD23	1:61:A:PHE:HE1	4	1.17
(1,1805)	1:127:A:VAL:HG22	1:137:A:LEU:HD21	10	1.17
(1,1712)	1:119:A:VAL:HG23	1:99:A:VAL:HG13	20	1.17
(1,1607)	1:142:A:MET:HE2	1:142:A:MET:HB3	13	1.17
(1,1599)	1:149:A:MET:HE3	1:149:A:MET:HB2	18	1.17
(1,1088)	1:166:A:ILE:H	1:166:A:ILE:HD12	5	1.17
(1,1088)	1:166:A:ILE:H	1:166:A:ILE:HD12	7	1.17
(1,491)	1:76:A:SER:HB2	1:89:A:VAL:HG22	14	1.17
(1,491)	1:76:A:SER:HB2	1:89:A:VAL:HG21	20	1.17
(1,416)	1:16:A:SER:HA	1:8:A:VAL:HG12	13	1.17
(1,414)	1:128:A:ARG:HA	1:164:A:ILE:HD11	17	1.17
(1,212)	1:79:A:LEU:HD11	1:87:A:LYS:HD3	6	1.17
(1,212)	1:79:A:LEU:HD11	1:87:A:LYS:HD3	10	1.17
(1,97)	1:166:A:ILE:HD11	1:163:A:TRP:HA	20	1.17
(1,87)	1:9:A:GLU:H	1:8:A:VAL:HG11	17	1.17
(2,19)	1:153:A:HIS:H	1:78:A:PHE:O	4	1.16
(2,8)	1:92:A:VAL:H	1:99:A:VAL:O	19	1.16
(1,3523)	1:130:A:VAL:HG13	1:132:A:HIS:HD2	10	1.16
(1,3468)	1:138:A:PHE:HD1	1:151:A:GLU:HG3	6	1.16
(1,3468)	1:138:A:PHE:HD1	1:151:A:GLU:HG3	9	1.16
(1,3468)	1:138:A:PHE:HD1	1:151:A:GLU:HG3	13	1.16
(1,3357)	1:19:A:LEU:HD22	1:19:A:LEU:HB3	4	1.16
(1,3344)	1:149:A:MET:HE3	1:140:A:ILE:HG13	18	1.16
(1,3335)	1:124:A:LYS:HA	1:171:A:ILE:HG13	6	1.16
(1,3233)	1:86:A:LEU:HD23	1:78:A:PHE:HE2	2	1.16
(1,3220)	1:127:A:VAL:HG22	1:164:A:ILE:H	2	1.16
(1,3217)	1:46:A:LYS:HD2	1:43:A:ILE:HB	13	1.16
(1,3217)	1:46:A:LYS:HD2	1:43:A:ILE:HB	15	1.16
(1,2985)	1:36:A:LYS:HE3	1:36:A:LYS:HB2	4	1.16
(1,2962)	1:66:A:LEU:HG	1:65:A:ASP:HB3	18	1.16
(1,2952)	1:144:A:MET:HE1	1:144:A:MET:HG2	5	1.16
(1,2952)	1:144:A:MET:HE2	1:144:A:MET:HG2	10	1.16
(1,2890)	1:47:A:THR:HG21	1:108:A:TYR:HB3	10	1.16
(1,2811)	1:36:A:LYS:HA	1:36:A:LYS:HE3	19	1.16
(1,2658)	1:138:A:PHE:HA	1:137:A:LEU:HD22	17	1.16
(1,2520)	1:73:A:ARG:HD2	1:163:A:TRP:HZ2	9	1.16
(1,2461)	1:96:A:ASP:HB2	1:185:A:GLU:HB3	20	1.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2259)	1:56:A:LYS:HB2	1:56:A:LYS:HD3	17	1.16
(1,2187)	1:93:A:LEU:HD23	1:125:A:LEU:HD23	18	1.16
(1,2160)	1:107:A:LYS:HD3	1:109:A:ILE:HG21	15	1.16
(1,2133)	1:68:A:ARG:HG2	1:67:A:LYS:HD2	13	1.16
(1,2068)	1:137:A:LEU:HD22	1:129:A:GLU:HA	12	1.16
(1,1933)	1:70:A:LYS:HG3	1:36:A:LYS:HE2	10	1.16
(1,1599)	1:149:A:MET:HE2	1:149:A:MET:HB2	11	1.16
(1,1088)	1:166:A:ILE:H	1:166:A:ILE:HD13	16	1.16
(1,954)	1:139:A:LEU:H	1:137:A:LEU:HD22	8	1.16
(1,464)	1:112:A:SER:HB2	1:118:A:THR:HG23	7	1.16
(1,414)	1:128:A:ARG:HA	1:164:A:ILE:HD13	14	1.16
(1,388)	1:128:A:ARG:HB3	1:126:A:ILE:HD11	12	1.16
(1,231)	1:147:A:PRO:HB3	1:126:A:ILE:HD12	10	1.16
(1,231)	1:147:A:PRO:HB3	1:126:A:ILE:HD13	20	1.16
(1,212)	1:79:A:LEU:HD11	1:87:A:LYS:HD3	1	1.16
(1,137)	1:67:A:LYS:HG2	1:68:A:ARG:HB2	19	1.16
(2,19)	1:153:A:HIS:H	1:78:A:PHE:O	12	1.15
(2,8)	1:92:A:VAL:H	1:99:A:VAL:O	4	1.15
(2,8)	1:92:A:VAL:H	1:99:A:VAL:O	10	1.15
(1,3419)	1:135:A:LYS:HD3	1:135:A:LYS:HA	3	1.15
(1,3391)	1:11:A:GLU:HB3	1:12:A:ASP:HB2	10	1.15
(1,3357)	1:19:A:LEU:HD23	1:19:A:LEU:HB3	3	1.15
(1,3357)	1:19:A:LEU:HD23	1:19:A:LEU:HB3	5	1.15
(1,3344)	1:149:A:MET:HE2	1:140:A:ILE:HG13	6	1.15
(1,3220)	1:127:A:VAL:HG22	1:164:A:ILE:H	11	1.15
(1,3217)	1:46:A:LYS:HD2	1:43:A:ILE:HB	4	1.15
(1,3217)	1:46:A:LYS:HD2	1:43:A:ILE:HB	10	1.15
(1,3004)	1:165:A:GLN:HB2	1:162:A:SER:HA	11	1.15
(1,3004)	1:165:A:GLN:HB2	1:162:A:SER:HA	19	1.15
(1,2987)	1:38:A:VAL:HG23	1:41:A:ASN:HD22	15	1.15
(1,2985)	1:36:A:LYS:HE3	1:36:A:LYS:HB2	11	1.15
(1,2952)	1:144:A:MET:HE3	1:144:A:MET:HG2	1	1.15
(1,2952)	1:144:A:MET:HE3	1:144:A:MET:HG2	15	1.15
(1,2825)	1:32:A:ALA:HB1	1:29:A:SER:HB2	9	1.15
(1,2520)	1:73:A:ARG:HD2	1:163:A:TRP:HZ2	8	1.15
(1,2469)	1:22:A:ASP:HB2	1:24:A:ILE:HG12	10	1.15
(1,2448)	1:46:A:LYS:HE2	1:47:A:THR:HG22	11	1.15
(1,2128)	1:137:A:LEU:HD11	1:163:A:TRP:H	5	1.15
(1,1933)	1:70:A:LYS:HG3	1:36:A:LYS:HE2	18	1.15
(1,1835)	1:173:A:THR:HG21	1:176:A:ARG:HD3	19	1.15
(1,1607)	1:142:A:MET:HE3	1:142:A:MET:HB3	19	1.15
(1,1599)	1:149:A:MET:HE2	1:149:A:MET:HB2	6	1.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1590)	1:55:A:MET:HE1	1:55:A:MET:HG3	12	1.15
(1,954)	1:139:A:LEU:H	1:137:A:LEU:HD23	16	1.15
(1,491)	1:76:A:SER:HB2	1:89:A:VAL:HG21	17	1.15
(1,463)	1:139:A:LEU:HD13	1:120:A:ILE:H	9	1.15
(1,453)	1:92:A:VAL:HG11	1:43:A:ILE:HG12	10	1.15
(1,388)	1:128:A:ARG:HB3	1:126:A:ILE:HD13	11	1.15
(1,388)	1:128:A:ARG:HB3	1:126:A:ILE:HD13	15	1.15
(1,212)	1:79:A:LEU:HD12	1:87:A:LYS:HD3	3	1.15
(1,117)	1:101:A:LEU:HD22	1:43:A:ILE:HG22	19	1.15
(1,58)	1:13:A:LEU:H	1:20:A:VAL:HG11	18	1.15
(2,19)	1:153:A:HIS:H	1:78:A:PHE:O	5	1.14
(2,19)	1:153:A:HIS:H	1:78:A:PHE:O	15	1.14
(2,19)	1:153:A:HIS:H	1:78:A:PHE:O	16	1.14
(2,8)	1:92:A:VAL:H	1:99:A:VAL:O	18	1.14
(1,3468)	1:138:A:PHE:HD1	1:151:A:GLU:HG3	12	1.14
(1,3419)	1:135:A:LYS:HD3	1:135:A:LYS:HA	5	1.14
(1,3419)	1:135:A:LYS:HD3	1:135:A:LYS:HA	20	1.14
(1,3396)	1:92:A:VAL:HA	1:73:A:ARG:HG3	14	1.14
(1,3357)	1:19:A:LEU:HD21	1:19:A:LEU:HB3	2	1.14
(1,3357)	1:19:A:LEU:HD22	1:19:A:LEU:HB3	10	1.14
(1,3357)	1:19:A:LEU:HD21	1:19:A:LEU:HB3	14	1.14
(1,3109)	1:36:A:LYS:HE3	1:33:A:SER:HB3	3	1.14
(1,2985)	1:36:A:LYS:HE3	1:36:A:LYS:HB2	7	1.14
(1,2985)	1:36:A:LYS:HE3	1:36:A:LYS:HB2	17	1.14
(1,2952)	1:144:A:MET:HE2	1:144:A:MET:HG2	4	1.14
(1,2952)	1:144:A:MET:HE3	1:144:A:MET:HG2	16	1.14
(1,2952)	1:144:A:MET:HE3	1:144:A:MET:HG2	19	1.14
(1,2908)	1:123:A:LYS:HB2	1:123:A:LYS:HE2	1	1.14
(1,2908)	1:123:A:LYS:HB2	1:123:A:LYS:HE2	15	1.14
(1,2788)	1:158:A:GLU:HA	1:161:A:ASN:HB3	6	1.14
(1,2658)	1:138:A:PHE:HA	1:137:A:LEU:HD23	14	1.14
(1,2520)	1:73:A:ARG:HD2	1:163:A:TRP:HZ2	7	1.14
(1,2448)	1:46:A:LYS:HE2	1:47:A:THR:HG22	4	1.14
(1,2392)	1:159:A:GLU:HG3	1:77:A:VAL:HG11	10	1.14
(1,2187)	1:93:A:LEU:HD21	1:125:A:LEU:HD23	6	1.14
(1,2160)	1:107:A:LYS:HD3	1:109:A:ILE:HG22	9	1.14
(1,2118)	1:137:A:LEU:HD11	1:160:A:ARG:HA	10	1.14
(1,2038)	1:123:A:LYS:HG2	1:171:A:ILE:HG12	7	1.14
(1,2019)	1:170:A:THR:HG23	1:93:A:LEU:HD11	1	1.14
(1,1927)	1:19:A:LEU:HD12	1:11:A:GLU:HA	20	1.14
(1,1725)	1:8:A:VAL:HG21	1:8:A:VAL:HA	9	1.14
(1,1425)	1:181:A:GLY:H	1:182:A:ILE:H	12	1.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1135)	1:66:A:LEU:H	1:66:A:LEU:HD22	11	1.14
(1,491)	1:76:A:SER:HB2	1:89:A:VAL:HG22	7	1.14
(1,450)	1:87:A:LYS:HD3	1:79:A:LEU:HD21	12	1.14
(1,388)	1:128:A:ARG:HB3	1:126:A:ILE:HD12	3	1.14
(1,388)	1:128:A:ARG:HB3	1:126:A:ILE:HD13	9	1.14
(1,388)	1:128:A:ARG:HB3	1:126:A:ILE:HD13	16	1.14
(1,276)	1:22:A:ASP:HB2	1:21:A:LYS:HG3	2	1.14
(1,231)	1:147:A:PRO:HB3	1:126:A:ILE:HD13	3	1.14
(1,231)	1:147:A:PRO:HB3	1:126:A:ILE:HD12	17	1.14
(1,212)	1:79:A:LEU:HD12	1:87:A:LYS:HD3	11	1.14
(1,212)	1:79:A:LEU:HD13	1:87:A:LYS:HD3	20	1.14
(2,8)	1:92:A:VAL:H	1:99:A:VAL:O	5	1.13
(2,8)	1:92:A:VAL:H	1:99:A:VAL:O	7	1.13
(2,6)	1:90:A:GLN:H	1:101:A:LEU:O	5	1.13
(2,6)	1:90:A:GLN:H	1:101:A:LEU:O	7	1.13
(1,3419)	1:135:A:LYS:HD3	1:135:A:LYS:HA	10	1.13
(1,3357)	1:19:A:LEU:HD21	1:19:A:LEU:HB3	1	1.13
(1,3357)	1:19:A:LEU:HD21	1:19:A:LEU:HB3	7	1.13
(1,3357)	1:19:A:LEU:HD23	1:19:A:LEU:HB3	8	1.13
(1,3357)	1:19:A:LEU:HD23	1:19:A:LEU:HB3	13	1.13
(1,3233)	1:86:A:LEU:HD21	1:78:A:PHE:HE2	8	1.13
(1,3233)	1:86:A:LEU:HD21	1:78:A:PHE:HE2	14	1.13
(1,3233)	1:86:A:LEU:HD22	1:78:A:PHE:HE2	15	1.13
(1,2987)	1:38:A:VAL:HG22	1:41:A:ASN:HD22	5	1.13
(1,2985)	1:36:A:LYS:HE3	1:36:A:LYS:HB2	6	1.13
(1,2984)	1:36:A:LYS:HE3	1:36:A:LYS:HB3	20	1.13
(1,2952)	1:144:A:MET:HE1	1:144:A:MET:HG2	3	1.13
(1,2812)	1:56:A:LYS:HA	1:56:A:LYS:HE2	6	1.13
(1,2737)	1:134:A:GLU:HA	1:157:A:LYS:HG3	11	1.13
(1,2732)	1:184:A:SER:HA	1:59:A:GLN:HB2	6	1.13
(1,2624)	1:107:A:LYS:HA	1:46:A:LYS:HG3	20	1.13
(1,2480)	1:69:A:LYS:HE3	1:97:A:ILE:HG13	15	1.13
(1,2448)	1:46:A:LYS:HE2	1:47:A:THR:HG21	7	1.13
(1,2448)	1:46:A:LYS:HE2	1:47:A:THR:HG21	13	1.13
(1,2448)	1:46:A:LYS:HE2	1:47:A:THR:HG23	14	1.13
(1,2392)	1:159:A:GLU:HG3	1:77:A:VAL:HG11	1	1.13
(1,2392)	1:159:A:GLU:HG3	1:77:A:VAL:HG13	3	1.13
(1,2364)	1:134:A:GLU:HG2	1:157:A:LYS:HB3	11	1.13
(1,2192)	1:15:A:GLN:HB2	1:18:A:SER:HA	20	1.13
(1,2187)	1:93:A:LEU:HD21	1:125:A:LEU:HD23	11	1.13
(1,2187)	1:93:A:LEU:HD22	1:125:A:LEU:HD21	13	1.13
(1,2156)	1:107:A:LYS:HD3	1:48:A:ASP:HB2	8	1.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2118)	1:137:A:LEU:HD11	1:160:A:ARG:HA	5	1.13
(1,2068)	1:137:A:LEU:HD23	1:129:A:GLU:HA	6	1.13
(1,2068)	1:137:A:LEU:HD21	1:129:A:GLU:HA	13	1.13
(1,2022)	1:93:A:LEU:HD12	1:72:A:VAL:H	4	1.13
(1,1946)	1:50:A:LYS:HG2	1:60:A:MET:HE3	12	1.13
(1,1822)	1:79:A:LEU:HD23	1:78:A:PHE:HA	10	1.13
(1,1725)	1:8:A:VAL:HG22	1:8:A:VAL:HA	2	1.13
(1,1496)	1:162:A:SER:H	1:154:A:ALA:HB1	2	1.13
(1,1135)	1:66:A:LEU:H	1:66:A:LEU:HD21	12	1.13
(1,1135)	1:66:A:LEU:H	1:66:A:LEU:HD23	13	1.13
(1,1135)	1:66:A:LEU:H	1:66:A:LEU:HD22	20	1.13
(1,954)	1:139:A:LEU:H	1:137:A:LEU:HD22	18	1.13
(1,462)	1:94:A:LEU:HD21	1:93:A:LEU:H	15	1.13
(1,388)	1:128:A:ARG:HB3	1:126:A:ILE:HD11	1	1.13
(1,231)	1:147:A:PRO:HB3	1:126:A:ILE:HD13	7	1.13
(1,87)	1:9:A:GLU:H	1:8:A:VAL:HG21	13	1.13
(2,19)	1:153:A:HIS:H	1:78:A:PHE:O	18	1.12
(2,8)	1:92:A:VAL:H	1:99:A:VAL:O	1	1.12
(2,8)	1:92:A:VAL:H	1:99:A:VAL:O	12	1.12
(1,3533)	1:130:A:VAL:HG21	1:153:A:HIS:HD2	3	1.12
(1,3468)	1:138:A:PHE:HD1	1:151:A:GLU:HG3	1	1.12
(1,3361)	1:157:A:LYS:HA	1:160:A:ARG:HB2	13	1.12
(1,3357)	1:19:A:LEU:HD21	1:19:A:LEU:HB3	9	1.12
(1,3357)	1:19:A:LEU:HD21	1:19:A:LEU:HB3	19	1.12
(1,3335)	1:124:A:LYS:HA	1:171:A:ILE:HG13	2	1.12
(1,3233)	1:86:A:LEU:HD23	1:78:A:PHE:HE2	9	1.12
(1,3220)	1:127:A:VAL:HG22	1:164:A:ILE:H	1	1.12
(1,3211)	1:26:A:ALA:HB1	1:29:A:SER:HB3	15	1.12
(1,3176)	1:159:A:GLU:HG3	1:155:A:SER:HB2	6	1.12
(1,3110)	1:36:A:LYS:HE2	1:33:A:SER:HB3	3	1.12
(1,2985)	1:36:A:LYS:HE3	1:36:A:LYS:HB2	8	1.12
(1,2985)	1:36:A:LYS:HE3	1:36:A:LYS:HB2	9	1.12
(1,2985)	1:36:A:LYS:HE3	1:36:A:LYS:HB2	10	1.12
(1,2952)	1:144:A:MET:HE3	1:144:A:MET:HG2	9	1.12
(1,2788)	1:158:A:GLU:HA	1:161:A:ASN:HB3	4	1.12
(1,2788)	1:158:A:GLU:HA	1:161:A:ASN:HB3	9	1.12
(1,2520)	1:73:A:ARG:HD2	1:163:A:TRP:HZ2	14	1.12
(1,2448)	1:46:A:LYS:HE2	1:47:A:THR:HG23	6	1.12
(1,2448)	1:46:A:LYS:HE2	1:47:A:THR:HG21	15	1.12
(1,2448)	1:46:A:LYS:HE2	1:47:A:THR:HG23	16	1.12
(1,2448)	1:46:A:LYS:HE2	1:47:A:THR:HG22	17	1.12
(1,2448)	1:46:A:LYS:HE2	1:47:A:THR:HG23	20	1.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2392)	1:159:A:GLU:HG3	1:77:A:VAL:HG12	7	1.12
(1,2192)	1:15:A:GLN:HB2	1:18:A:SER:HA	17	1.12
(1,2187)	1:93:A:LEU:HD21	1:125:A:LEU:HD21	15	1.12
(1,2038)	1:123:A:LYS:HG2	1:171:A:ILE:HG12	1	1.12
(1,2024)	1:94:A:LEU:HD22	1:61:A:PHE:HE1	11	1.12
(1,2022)	1:93:A:LEU:HD12	1:72:A:VAL:H	5	1.12
(1,1946)	1:50:A:LYS:HG2	1:60:A:MET:HE1	10	1.12
(1,1933)	1:70:A:LYS:HG3	1:36:A:LYS:HE2	14	1.12
(1,1833)	1:118:A:THR:HG22	1:100:A:PHE:HB3	7	1.12
(1,1801)	1:127:A:VAL:HG12	1:139:A:LEU:HD22	4	1.12
(1,1753)	1:97:A:ILE:HD11	1:99:A:VAL:HG23	20	1.12
(1,1726)	1:20:A:VAL:HG21	1:21:A:LYS:HA	4	1.12
(1,1712)	1:119:A:VAL:HG21	1:99:A:VAL:HG12	11	1.12
(1,1590)	1:55:A:MET:HE1	1:55:A:MET:HG3	6	1.12
(1,1496)	1:162:A:SER:H	1:154:A:ALA:HB1	16	1.12
(1,1135)	1:66:A:LEU:H	1:66:A:LEU:HD23	19	1.12
(1,464)	1:112:A:SER:HB3	1:118:A:THR:HG21	10	1.12
(1,453)	1:92:A:VAL:HG13	1:43:A:ILE:HG12	9	1.12
(1,443)	1:21:A:LYS:HE2	1:20:A:VAL:HG23	14	1.12
(1,414)	1:128:A:ARG:HA	1:164:A:ILE:HD13	13	1.12
(1,388)	1:128:A:ARG:HB3	1:126:A:ILE:HD11	2	1.12
(1,388)	1:128:A:ARG:HB3	1:126:A:ILE:HD12	13	1.12
(1,388)	1:128:A:ARG:HB3	1:126:A:ILE:HD11	14	1.12
(1,388)	1:128:A:ARG:HB3	1:126:A:ILE:HD11	17	1.12
(1,380)	1:171:A:ILE:HA	1:125:A:LEU:HD11	3	1.12
(1,301)	1:73:A:ARG:HD3	1:163:A:TRP:HH2	20	1.12
(1,231)	1:147:A:PRO:HB3	1:126:A:ILE:HD12	14	1.12
(1,99)	1:171:A:ILE:HD13	1:122:A:LEU:HB2	5	1.12
(1,99)	1:171:A:ILE:HD11	1:122:A:LEU:HB2	15	1.12
(2,19)	1:153:A:HIS:H	1:78:A:PHE:O	14	1.11
(2,10)	1:94:A:LEU:H	1:97:A:ILE:O	13	1.11
(2,8)	1:92:A:VAL:H	1:99:A:VAL:O	3	1.11
(2,6)	1:90:A:GLN:H	1:101:A:LEU:O	17	1.11
(2,5)	1:89:A:VAL:H	1:77:A:VAL:O	9	1.11
(2,1)	1:35:A:GLU:H	1:31:A:VAL:O	1	1.11
(1,3419)	1:135:A:LYS:HD3	1:135:A:LYS:HA	11	1.11
(1,3357)	1:19:A:LEU:HD23	1:19:A:LEU:HB3	16	1.11
(1,3220)	1:127:A:VAL:HG21	1:164:A:ILE:H	15	1.11
(1,3137)	1:107:A:LYS:HD3	1:46:A:LYS:HA	15	1.11
(1,2985)	1:36:A:LYS:HE3	1:36:A:LYS:HB2	16	1.11
(1,2660)	1:130:A:VAL:HG21	1:138:A:PHE:HA	17	1.11
(1,2448)	1:46:A:LYS:HE2	1:47:A:THR:HG21	3	1.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2448)	1:46:A:LYS:HE2	1:47:A:THR:HG23	8	1.11
(1,2448)	1:46:A:LYS:HE2	1:47:A:THR:HG23	12	1.11
(1,2392)	1:159:A:GLU:HG3	1:77:A:VAL:HG11	15	1.11
(1,2369)	1:134:A:GLU:HG3	1:135:A:LYS:HG2	13	1.11
(1,2210)	1:42:A:GLU:HB3	1:43:A:ILE:HD13	2	1.11
(1,2187)	1:93:A:LEU:HD21	1:125:A:LEU:HD21	4	1.11
(1,2038)	1:123:A:LYS:HG2	1:171:A:ILE:HG12	12	1.11
(1,2028)	1:124:A:LYS:HG2	1:123:A:LYS:HD3	12	1.11
(1,2022)	1:93:A:LEU:HD11	1:72:A:VAL:H	1	1.11
(1,1972)	1:66:A:LEU:HD12	1:101:A:LEU:HD13	15	1.11
(1,1933)	1:70:A:LYS:HG3	1:36:A:LYS:HE2	17	1.11
(1,1835)	1:173:A:THR:HG21	1:176:A:ARG:HD3	4	1.11
(1,1590)	1:55:A:MET:HE2	1:55:A:MET:HG3	2	1.11
(1,1590)	1:55:A:MET:HE2	1:55:A:MET:HG3	3	1.11
(1,1590)	1:55:A:MET:HE1	1:55:A:MET:HG3	7	1.11
(1,1590)	1:55:A:MET:HE3	1:55:A:MET:HG3	14	1.11
(1,1563)	1:97:A:ILE:HD12	1:61:A:PHE:HD1	14	1.11
(1,1422)	1:134:A:GLU:H	1:135:A:LYS:HD2	1	1.11
(1,1242)	1:96:A:ASP:H	1:122:A:LEU:HG	4	1.11
(1,954)	1:139:A:LEU:H	1:137:A:LEU:HD23	9	1.11
(1,559)	1:93:A:LEU:H	1:92:A:VAL:HG21	13	1.11
(1,460)	1:29:A:SER:HA	1:20:A:VAL:HG21	4	1.11
(1,453)	1:92:A:VAL:HG13	1:43:A:ILE:HG12	20	1.11
(1,388)	1:128:A:ARG:HB3	1:126:A:ILE:HD13	4	1.11
(1,388)	1:128:A:ARG:HB3	1:126:A:ILE:HD11	18	1.11
(1,388)	1:128:A:ARG:HB3	1:126:A:ILE:HD12	20	1.11
(1,253)	1:115:A:GLN:HG2	1:113:A:LEU:HB2	5	1.11
(1,219)	1:42:A:GLU:HB3	1:39:A:ARG:HB2	10	1.11
(1,137)	1:67:A:LYS:HG2	1:68:A:ARG:HB2	4	1.11
(1,99)	1:171:A:ILE:HD12	1:122:A:LEU:HB2	1	1.11
(1,97)	1:166:A:ILE:HD13	1:163:A:TRP:HA	9	1.11
(1,9)	1:98:A:LEU:H	1:120:A:ILE:HG23	16	1.11
(2,19)	1:153:A:HIS:H	1:78:A:PHE:O	3	1.1
(2,10)	1:94:A:LEU:H	1:97:A:ILE:O	9	1.1
(2,6)	1:90:A:GLN:H	1:101:A:LEU:O	8	1.1
(2,5)	1:89:A:VAL:H	1:77:A:VAL:O	4	1.1
(2,1)	1:35:A:GLU:H	1:31:A:VAL:O	5	1.1
(2,1)	1:35:A:GLU:H	1:31:A:VAL:O	14	1.1
(2,1)	1:35:A:GLU:H	1:31:A:VAL:O	20	1.1
(1,3357)	1:19:A:LEU:HD22	1:19:A:LEU:HB3	6	1.1
(1,3357)	1:19:A:LEU:HD21	1:19:A:LEU:HB3	15	1.1
(1,3357)	1:19:A:LEU:HD21	1:19:A:LEU:HB3	18	1.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3004)	1:165:A:GLN:HB2	1:162:A:SER:HA	2	1.1
(1,2987)	1:38:A:VAL:HG22	1:41:A:ASN:HD22	1	1.1
(1,2987)	1:38:A:VAL:HG21	1:41:A:ASN:HD22	12	1.1
(1,2985)	1:36:A:LYS:HE3	1:36:A:LYS:HB2	2	1.1
(1,2985)	1:36:A:LYS:HE3	1:36:A:LYS:HB2	12	1.1
(1,2984)	1:36:A:LYS:HE3	1:36:A:LYS:HB3	3	1.1
(1,2788)	1:158:A:GLU:HA	1:161:A:ASN:HB3	17	1.1
(1,2457)	1:87:A:LYS:HB2	1:87:A:LYS:HE2	18	1.1
(1,2448)	1:46:A:LYS:HE2	1:47:A:THR:HG21	1	1.1
(1,2448)	1:46:A:LYS:HE2	1:47:A:THR:HG21	2	1.1
(1,2448)	1:46:A:LYS:HE2	1:47:A:THR:HG21	9	1.1
(1,2448)	1:46:A:LYS:HE2	1:47:A:THR:HG21	18	1.1
(1,2291)	1:4:A:LYS:HB3	1:9:A:GLU:HA	3	1.1
(1,1981)	1:71:A:LEU:HD22	1:40:A:LEU:HB3	11	1.1
(1,1955)	1:66:A:LEU:HD11	1:99:A:VAL:HB	8	1.1
(1,1881)	1:66:A:LEU:HD21	1:110:A:PHE:HZ	7	1.1
(1,1835)	1:173:A:THR:HG23	1:176:A:ARG:HD3	10	1.1
(1,1590)	1:55:A:MET:HE1	1:55:A:MET:HG3	19	1.1
(1,1563)	1:97:A:ILE:HD13	1:61:A:PHE:HD2	12	1.1
(1,1496)	1:162:A:SER:H	1:154:A:ALA:HB1	14	1.1
(1,1135)	1:66:A:LEU:H	1:66:A:LEU:HD23	4	1.1
(1,701)	1:137:A:LEU:H	1:130:A:VAL:HG22	14	1.1
(1,491)	1:76:A:SER:HB3	1:89:A:VAL:HG21	8	1.1
(1,491)	1:76:A:SER:HB3	1:89:A:VAL:HG21	13	1.1
(1,460)	1:29:A:SER:HA	1:20:A:VAL:HG11	20	1.1
(1,453)	1:92:A:VAL:HG12	1:43:A:ILE:HG12	13	1.1
(1,453)	1:92:A:VAL:HG13	1:43:A:ILE:HG12	17	1.1
(1,279)	1:157:A:LYS:HG2	1:157:A:LYS:HE2	12	1.1
(1,231)	1:147:A:PRO:HB3	1:126:A:ILE:HD12	18	1.1
(1,99)	1:171:A:ILE:HD12	1:122:A:LEU:HB2	20	1.1
(2,19)	1:153:A:HIS:H	1:78:A:PHE:O	9	1.09
(2,10)	1:94:A:LEU:H	1:97:A:ILE:O	18	1.09
(2,6)	1:90:A:GLN:H	1:101:A:LEU:O	4	1.09
(2,5)	1:89:A:VAL:H	1:77:A:VAL:O	3	1.09
(2,1)	1:35:A:GLU:H	1:31:A:VAL:O	2	1.09
(2,1)	1:35:A:GLU:H	1:31:A:VAL:O	15	1.09
(2,1)	1:35:A:GLU:H	1:31:A:VAL:O	19	1.09
(1,3533)	1:130:A:VAL:HG21	1:153:A:HIS:HD2	1	1.09
(1,3361)	1:157:A:LYS:HA	1:160:A:ARG:HB2	10	1.09
(1,3357)	1:19:A:LEU:HD21	1:19:A:LEU:HB3	11	1.09
(1,3357)	1:19:A:LEU:HD22	1:19:A:LEU:HB3	17	1.09
(1,3233)	1:86:A:LEU:HD21	1:78:A:PHE:HE2	6	1.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3220)	1:127:A:VAL:HG21	1:164:A:ILE:H	6	1.09
(1,3090)	1:58:A:GLY:HA3	1:54:A:ARG:HG3	12	1.09
(1,3056)	1:144:A:MET:HE1	1:145:A:THR:HG22	14	1.09
(1,2985)	1:36:A:LYS:HE3	1:36:A:LYS:HB2	14	1.09
(1,2985)	1:36:A:LYS:HE3	1:36:A:LYS:HB2	15	1.09
(1,2952)	1:144:A:MET:HE3	1:144:A:MET:HG2	20	1.09
(1,2890)	1:47:A:THR:HG21	1:108:A:TYR:HB3	12	1.09
(1,2788)	1:158:A:GLU:HA	1:161:A:ASN:HB3	1	1.09
(1,2737)	1:134:A:GLU:HA	1:157:A:LYS:HG3	17	1.09
(1,2624)	1:107:A:LYS:HA	1:46:A:LYS:HG3	3	1.09
(1,2480)	1:69:A:LYS:HE3	1:97:A:ILE:HG13	1	1.09
(1,2448)	1:46:A:LYS:HE2	1:47:A:THR:HG23	5	1.09
(1,2448)	1:46:A:LYS:HE2	1:47:A:THR:HG23	10	1.09
(1,2392)	1:159:A:GLU:HG3	1:77:A:VAL:HG13	2	1.09
(1,2392)	1:159:A:GLU:HG3	1:77:A:VAL:HG11	17	1.09
(1,2381)	1:35:A:GLU:HG2	1:32:A:ALA:HB2	4	1.09
(1,2381)	1:35:A:GLU:HG2	1:32:A:ALA:HB1	20	1.09
(1,2116)	1:176:A:ARG:HG3	1:11:A:GLU:HB3	11	1.09
(1,1926)	1:19:A:LEU:HD12	1:18:A:SER:HB2	16	1.09
(1,1881)	1:66:A:LEU:HD21	1:110:A:PHE:HZ	1	1.09
(1,1833)	1:118:A:THR:HG22	1:100:A:PHE:HB3	6	1.09
(1,1607)	1:142:A:MET:HE3	1:142:A:MET:HB3	17	1.09
(1,1135)	1:66:A:LEU:H	1:66:A:LEU:HD22	3	1.09
(1,1135)	1:66:A:LEU:H	1:66:A:LEU:HD21	8	1.09
(1,1135)	1:66:A:LEU:H	1:66:A:LEU:HD21	17	1.09
(1,954)	1:139:A:LEU:H	1:137:A:LEU:HD21	20	1.09
(1,559)	1:93:A:LEU:H	1:92:A:VAL:HG21	19	1.09
(1,414)	1:128:A:ARG:HA	1:164:A:ILE:HD12	10	1.09
(1,388)	1:128:A:ARG:HB3	1:126:A:ILE:HD12	7	1.09
(1,380)	1:171:A:ILE:HA	1:125:A:LEU:HD11	8	1.09
(1,276)	1:22:A:ASP:HB2	1:21:A:LYS:HG2	15	1.09
(1,256)	1:64:A:GLU:HG3	1:67:A:LYS:HD3	16	1.09
(1,231)	1:147:A:PRO:HB3	1:126:A:ILE:HD11	15	1.09
(1,163)	1:40:A:LEU:HD13	1:44:A:TYR:HB2	4	1.09
(1,137)	1:67:A:LYS:HG2	1:68:A:ARG:HB2	13	1.09
(1,99)	1:171:A:ILE:HD13	1:122:A:LEU:HB2	12	1.09
(1,99)	1:171:A:ILE:HD12	1:122:A:LEU:HB2	17	1.09
(2,10)	1:94:A:LEU:H	1:97:A:ILE:O	17	1.08
(2,6)	1:90:A:GLN:H	1:101:A:LEU:O	9	1.08
(2,6)	1:90:A:GLN:H	1:101:A:LEU:O	19	1.08
(2,5)	1:89:A:VAL:H	1:77:A:VAL:O	7	1.08
(2,5)	1:89:A:VAL:H	1:77:A:VAL:O	14	1.08

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1)	1:35:A:GLU:H	1:31:A:VAL:O	4	1.08
(2,1)	1:35:A:GLU:H	1:31:A:VAL:O	16	1.08
(1,3533)	1:130:A:VAL:HG23	1:153:A:HIS:HD2	9	1.08
(1,3533)	1:130:A:VAL:HG21	1:153:A:HIS:HD2	16	1.08
(1,3361)	1:157:A:LYS:HA	1:160:A:ARG:HB2	11	1.08
(1,3357)	1:19:A:LEU:HD23	1:19:A:LEU:HB3	20	1.08
(1,3220)	1:127:A:VAL:HG22	1:164:A:ILE:H	5	1.08
(1,2985)	1:36:A:LYS:HE3	1:36:A:LYS:HB2	3	1.08
(1,2985)	1:36:A:LYS:HE3	1:36:A:LYS:HB2	13	1.08
(1,2985)	1:36:A:LYS:HE3	1:36:A:LYS:HB2	18	1.08
(1,2984)	1:36:A:LYS:HE3	1:36:A:LYS:HB3	15	1.08
(1,2984)	1:36:A:LYS:HE3	1:36:A:LYS:HB3	16	1.08
(1,2624)	1:107:A:LYS:HA	1:46:A:LYS:HG3	10	1.08
(1,2624)	1:107:A:LYS:HA	1:46:A:LYS:HG3	12	1.08
(1,2520)	1:73:A:ARG:HD2	1:163:A:TRP:HZ2	4	1.08
(1,2520)	1:73:A:ARG:HD2	1:163:A:TRP:HZ2	12	1.08
(1,2457)	1:87:A:LYS:HB2	1:87:A:LYS:HE2	4	1.08
(1,2381)	1:35:A:GLU:HG2	1:32:A:ALA:HB2	6	1.08
(1,2245)	1:163:A:TRP:HB3	1:164:A:ILE:HD13	6	1.08
(1,2210)	1:42:A:GLU:HB3	1:43:A:ILE:HD13	13	1.08
(1,2038)	1:123:A:LYS:HG2	1:171:A:ILE:HG12	16	1.08
(1,2024)	1:94:A:LEU:HD21	1:61:A:PHE:HE1	2	1.08
(1,1972)	1:66:A:LEU:HD13	1:101:A:LEU:HD12	6	1.08
(1,1805)	1:127:A:VAL:HG21	1:137:A:LEU:HD21	6	1.08
(1,1801)	1:127:A:VAL:HG12	1:139:A:LEU:HD22	19	1.08
(1,1801)	1:127:A:VAL:HG13	1:139:A:LEU:HD23	20	1.08
(1,1753)	1:97:A:ILE:HD11	1:99:A:VAL:HG23	18	1.08
(1,1613)	1:171:A:ILE:HG23	1:125:A:LEU:HD11	2	1.08
(1,1135)	1:66:A:LEU:H	1:66:A:LEU:HD23	18	1.08
(1,559)	1:93:A:LEU:H	1:92:A:VAL:HG23	20	1.08
(1,454)	1:151:A:GLU:HB2	1:113:A:LEU:HD12	1	1.08
(1,453)	1:92:A:VAL:HG13	1:43:A:ILE:HG12	3	1.08
(1,380)	1:171:A:ILE:HA	1:125:A:LEU:HD12	7	1.08
(1,380)	1:171:A:ILE:HA	1:125:A:LEU:HD11	14	1.08
(1,375)	1:49:A:SER:HB3	1:63:A:LYS:HE3	3	1.08
(1,286)	1:39:A:ARG:HD2	1:71:A:LEU:HD23	13	1.08
(1,286)	1:39:A:ARG:HD2	1:71:A:LEU:HD21	15	1.08
(1,99)	1:171:A:ILE:HD13	1:122:A:LEU:HB2	19	1.08
(1,47)	1:175:A:ASN:H	1:173:A:THR:HG23	1	1.08
(2,5)	1:89:A:VAL:H	1:77:A:VAL:O	19	1.07
(2,1)	1:35:A:GLU:H	1:31:A:VAL:O	3	1.07
(2,1)	1:35:A:GLU:H	1:31:A:VAL:O	18	1.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3361)	1:157:A:LYS:HA	1:160:A:ARG:HB2	16	1.07
(1,3220)	1:127:A:VAL:HG23	1:164:A:ILE:H	18	1.07
(1,3004)	1:165:A:GLN:HB2	1:162:A:SER:HA	17	1.07
(1,2985)	1:36:A:LYS:HE3	1:36:A:LYS:HB2	19	1.07
(1,2624)	1:107:A:LYS:HA	1:46:A:LYS:HG3	5	1.07
(1,2624)	1:107:A:LYS:HA	1:46:A:LYS:HG3	6	1.07
(1,2581)	1:53:A:MET:HA	1:119:A:VAL:HG11	3	1.07
(1,2581)	1:53:A:MET:HA	1:119:A:VAL:HG12	14	1.07
(1,2492)	1:176:A:ARG:HB3	1:176:A:ARG:HD3	7	1.07
(1,2392)	1:159:A:GLU:HG3	1:77:A:VAL:HG11	18	1.07
(1,2381)	1:35:A:GLU:HG2	1:32:A:ALA:HB2	7	1.07
(1,2381)	1:35:A:GLU:HG2	1:32:A:ALA:HB3	14	1.07
(1,2381)	1:35:A:GLU:HG2	1:32:A:ALA:HB3	15	1.07
(1,2250)	1:119:A:VAL:HG23	1:53:A:MET:HG3	9	1.07
(1,2250)	1:119:A:VAL:HG23	1:53:A:MET:HG3	13	1.07
(1,2250)	1:119:A:VAL:HG23	1:53:A:MET:HG3	17	1.07
(1,2245)	1:163:A:TRP:HB3	1:164:A:ILE:HD13	9	1.07
(1,2210)	1:42:A:GLU:HB3	1:43:A:ILE:HD12	15	1.07
(1,2187)	1:93:A:LEU:HD23	1:125:A:LEU:HD23	3	1.07
(1,2038)	1:123:A:LYS:HG2	1:171:A:ILE:HG12	5	1.07
(1,2024)	1:94:A:LEU:HD23	1:61:A:PHE:HE1	17	1.07
(1,1981)	1:71:A:LEU:HD22	1:40:A:LEU:HB3	8	1.07
(1,1981)	1:71:A:LEU:HD23	1:40:A:LEU:HB3	18	1.07
(1,1933)	1:70:A:LYS:HG3	1:36:A:LYS:HE2	13	1.07
(1,1135)	1:66:A:LEU:H	1:66:A:LEU:HD22	5	1.07
(1,954)	1:139:A:LEU:H	1:137:A:LEU:HD23	12	1.07
(1,954)	1:139:A:LEU:H	1:137:A:LEU:HD22	19	1.07
(1,464)	1:112:A:SER:HB3	1:118:A:THR:HG22	19	1.07
(1,414)	1:128:A:ARG:HA	1:164:A:ILE:HD11	9	1.07
(1,414)	1:128:A:ARG:HA	1:164:A:ILE:HD12	16	1.07
(1,286)	1:39:A:ARG:HD2	1:71:A:LEU:HD22	19	1.07
(1,210)	1:70:A:LYS:HD2	1:8:A:VAL:HG22	14	1.07
(2,19)	1:153:A:HIS:H	1:78:A:PHE:O	2	1.06
(2,10)	1:94:A:LEU:H	1:97:A:ILE:O	12	1.06
(2,6)	1:90:A:GLN:H	1:101:A:LEU:O	1	1.06
(2,6)	1:90:A:GLN:H	1:101:A:LEU:O	2	1.06
(2,5)	1:89:A:VAL:H	1:77:A:VAL:O	2	1.06
(2,5)	1:89:A:VAL:H	1:77:A:VAL:O	18	1.06
(2,1)	1:35:A:GLU:H	1:31:A:VAL:O	8	1.06
(2,1)	1:35:A:GLU:H	1:31:A:VAL:O	11	1.06
(2,1)	1:35:A:GLU:H	1:31:A:VAL:O	17	1.06
(1,3468)	1:138:A:PHE:HD1	1:151:A:GLU:HG3	4	1.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3357)	1:19:A:LEU:HD22	1:19:A:LEU:HB3	12	1.06
(1,2987)	1:38:A:VAL:HG23	1:41:A:ASN:HD22	19	1.06
(1,2985)	1:36:A:LYS:HE3	1:36:A:LYS:HB2	5	1.06
(1,2917)	1:141:A:SER:HB3	1:140:A:ILE:HG21	12	1.06
(1,2908)	1:123:A:LYS:HB2	1:123:A:LYS:HE2	5	1.06
(1,2645)	1:142:A:MET:HA	1:147:A:PRO:HG2	17	1.06
(1,2624)	1:107:A:LYS:HA	1:46:A:LYS:HG3	11	1.06
(1,2624)	1:107:A:LYS:HA	1:46:A:LYS:HG3	17	1.06
(1,2484)	1:36:A:LYS:HG3	1:36:A:LYS:HE3	15	1.06
(1,2480)	1:69:A:LYS:HE3	1:97:A:ILE:HG13	16	1.06
(1,2449)	1:46:A:LYS:HG2	1:46:A:LYS:HE2	1	1.06
(1,2449)	1:46:A:LYS:HG2	1:46:A:LYS:HE2	3	1.06
(1,2449)	1:46:A:LYS:HG2	1:46:A:LYS:HE2	4	1.06
(1,2449)	1:46:A:LYS:HG2	1:46:A:LYS:HE2	5	1.06
(1,2449)	1:46:A:LYS:HG2	1:46:A:LYS:HE2	10	1.06
(1,2449)	1:46:A:LYS:HG2	1:46:A:LYS:HE2	12	1.06
(1,2449)	1:46:A:LYS:HG2	1:46:A:LYS:HE2	13	1.06
(1,2449)	1:46:A:LYS:HG2	1:46:A:LYS:HE2	15	1.06
(1,2449)	1:46:A:LYS:HG2	1:46:A:LYS:HE2	17	1.06
(1,2449)	1:46:A:LYS:HG2	1:46:A:LYS:HE2	20	1.06
(1,2315)	1:4:A:LYS:HB3	1:4:A:LYS:HD2	13	1.06
(1,2210)	1:42:A:GLU:HB3	1:43:A:ILE:HD12	19	1.06
(1,2090)	1:128:A:ARG:HG2	1:140:A:ILE:HD13	1	1.06
(1,2028)	1:124:A:LYS:HG2	1:123:A:LYS:HD3	13	1.06
(1,2024)	1:94:A:LEU:HD21	1:61:A:PHE:HE1	7	1.06
(1,1925)	1:139:A:LEU:HD21	1:137:A:LEU:HG	6	1.06
(1,1835)	1:173:A:THR:HG22	1:176:A:ARG:HD3	1	1.06
(1,1833)	1:118:A:THR:HG23	1:100:A:PHE:HB3	18	1.06
(1,1833)	1:118:A:THR:HG23	1:100:A:PHE:HB3	20	1.06
(1,1805)	1:127:A:VAL:HG22	1:137:A:LEU:HD22	2	1.06
(1,1805)	1:127:A:VAL:HG22	1:137:A:LEU:HD23	5	1.06
(1,1805)	1:127:A:VAL:HG22	1:137:A:LEU:HD22	11	1.06
(1,1680)	1:130:A:VAL:HG21	1:136:A:GLY:HA2	12	1.06
(1,1341)	1:100:A:PHE:H	1:99:A:VAL:HG11	5	1.06
(1,1135)	1:66:A:LEU:H	1:66:A:LEU:HD21	2	1.06
(1,1135)	1:66:A:LEU:H	1:66:A:LEU:HD21	10	1.06
(1,954)	1:139:A:LEU:H	1:137:A:LEU:HD21	17	1.06
(1,944)	1:178:A:GLU:H	1:178:A:GLU:HB2	4	1.06
(1,559)	1:93:A:LEU:H	1:92:A:VAL:HG21	5	1.06
(1,559)	1:93:A:LEU:H	1:92:A:VAL:HG22	6	1.06
(1,463)	1:139:A:LEU:HD12	1:120:A:ILE:H	2	1.06
(1,453)	1:92:A:VAL:HG12	1:43:A:ILE:HG12	2	1.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,453)	1:92:A:VAL:HG12	1:43:A:ILE:HG12	5	1.06
(1,453)	1:92:A:VAL:HG13	1:43:A:ILE:HG12	15	1.06
(1,414)	1:128:A:ARG:HA	1:164:A:ILE:HD13	2	1.06
(1,414)	1:128:A:ARG:HA	1:164:A:ILE:HD13	15	1.06
(1,380)	1:171:A:ILE:HA	1:125:A:LEU:HD11	2	1.06
(1,380)	1:171:A:ILE:HA	1:125:A:LEU:HD13	11	1.06
(1,370)	1:16:A:SER:HB3	1:4:A:LYS:HG2	16	1.06
(1,231)	1:147:A:PRO:HB3	1:126:A:ILE:HD11	11	1.06
(1,97)	1:166:A:ILE:HD13	1:163:A:TRP:HA	14	1.06
(2,12)	1:99:A:VAL:H	1:92:A:VAL:O	13	1.05
(2,10)	1:94:A:LEU:H	1:97:A:ILE:O	1	1.05
(2,10)	1:94:A:LEU:H	1:97:A:ILE:O	4	1.05
(2,10)	1:94:A:LEU:H	1:97:A:ILE:O	16	1.05
(2,6)	1:90:A:GLN:H	1:101:A:LEU:O	10	1.05
(2,6)	1:90:A:GLN:H	1:101:A:LEU:O	11	1.05
(2,6)	1:90:A:GLN:H	1:101:A:LEU:O	14	1.05
(2,6)	1:90:A:GLN:H	1:101:A:LEU:O	16	1.05
(2,5)	1:89:A:VAL:H	1:77:A:VAL:O	5	1.05
(2,5)	1:89:A:VAL:H	1:77:A:VAL:O	12	1.05
(2,1)	1:35:A:GLU:H	1:31:A:VAL:O	6	1.05
(2,1)	1:35:A:GLU:H	1:31:A:VAL:O	7	1.05
(2,1)	1:35:A:GLU:H	1:31:A:VAL:O	10	1.05
(1,3220)	1:127:A:VAL:HG22	1:164:A:ILE:H	8	1.05
(1,3220)	1:127:A:VAL:HG22	1:164:A:ILE:H	14	1.05
(1,3211)	1:26:A:ALA:HB3	1:29:A:SER:HB3	17	1.05
(1,2985)	1:36:A:LYS:HE3	1:36:A:LYS:HB2	20	1.05
(1,2984)	1:36:A:LYS:HE3	1:36:A:LYS:HB3	17	1.05
(1,2969)	1:176:A:ARG:HA	1:176:A:ARG:HG2	7	1.05
(1,2908)	1:123:A:LYS:HB2	1:123:A:LYS:HE2	14	1.05
(1,2645)	1:142:A:MET:HA	1:147:A:PRO:HG2	11	1.05
(1,2645)	1:142:A:MET:HA	1:147:A:PRO:HG2	18	1.05
(1,2626)	1:153:A:HIS:HA	1:130:A:VAL:HG23	18	1.05
(1,2624)	1:107:A:LYS:HA	1:46:A:LYS:HG3	2	1.05
(1,2581)	1:53:A:MET:HA	1:119:A:VAL:HG12	18	1.05
(1,2449)	1:46:A:LYS:HG2	1:46:A:LYS:HE2	2	1.05
(1,2449)	1:46:A:LYS:HG2	1:46:A:LYS:HE2	6	1.05
(1,2449)	1:46:A:LYS:HG2	1:46:A:LYS:HE2	7	1.05
(1,2449)	1:46:A:LYS:HG2	1:46:A:LYS:HE2	8	1.05
(1,2449)	1:46:A:LYS:HG2	1:46:A:LYS:HE2	9	1.05
(1,2449)	1:46:A:LYS:HG2	1:46:A:LYS:HE2	11	1.05
(1,2449)	1:46:A:LYS:HG2	1:46:A:LYS:HE2	16	1.05
(1,2449)	1:46:A:LYS:HG2	1:46:A:LYS:HE2	18	1.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2439)	1:28:A:ASP:HB2	1:25:A:GLY:HA3	18	1.05
(1,2381)	1:35:A:GLU:HG2	1:32:A:ALA:HB2	10	1.05
(1,2118)	1:137:A:LEU:HD11	1:160:A:ARG:HA	7	1.05
(1,2090)	1:128:A:ARG:HG2	1:140:A:ILE:HD12	16	1.05
(1,2028)	1:124:A:LYS:HG2	1:123:A:LYS:HD3	9	1.05
(1,2024)	1:94:A:LEU:HD21	1:61:A:PHE:HE1	12	1.05
(1,2024)	1:94:A:LEU:HD21	1:61:A:PHE:HE1	18	1.05
(1,1972)	1:66:A:LEU:HD11	1:101:A:LEU:HD11	2	1.05
(1,1933)	1:70:A:LYS:HG3	1:36:A:LYS:HE2	12	1.05
(1,1926)	1:19:A:LEU:HD11	1:18:A:SER:HB2	1	1.05
(1,1833)	1:118:A:THR:HG21	1:100:A:PHE:HB3	11	1.05
(1,1833)	1:118:A:THR:HG21	1:100:A:PHE:HB3	14	1.05
(1,1833)	1:118:A:THR:HG23	1:100:A:PHE:HB3	15	1.05
(1,1805)	1:127:A:VAL:HG23	1:137:A:LEU:HD22	13	1.05
(1,1753)	1:97:A:ILE:HD11	1:99:A:VAL:HG22	1	1.05
(1,1753)	1:97:A:ILE:HD13	1:99:A:VAL:HG21	11	1.05
(1,1599)	1:149:A:MET:HE1	1:149:A:MET:HB2	10	1.05
(1,1496)	1:162:A:SER:H	1:154:A:ALA:HB2	19	1.05
(1,1341)	1:100:A:PHE:H	1:99:A:VAL:HG13	15	1.05
(1,1135)	1:66:A:LEU:H	1:66:A:LEU:HD22	6	1.05
(1,1135)	1:66:A:LEU:H	1:66:A:LEU:HD21	15	1.05
(1,559)	1:93:A:LEU:H	1:92:A:VAL:HG21	9	1.05
(1,541)	1:91:A:ALA:H	1:90:A:GLN:HG3	7	1.05
(1,491)	1:76:A:SER:HB3	1:89:A:VAL:HG22	5	1.05
(1,491)	1:76:A:SER:HB3	1:89:A:VAL:HG21	11	1.05
(1,491)	1:76:A:SER:HB3	1:89:A:VAL:HG21	16	1.05
(1,454)	1:151:A:GLU:HB2	1:113:A:LEU:HD11	7	1.05
(1,453)	1:92:A:VAL:HG11	1:43:A:ILE:HG12	14	1.05
(1,414)	1:128:A:ARG:HA	1:164:A:ILE:HD13	5	1.05
(1,380)	1:171:A:ILE:HA	1:125:A:LEU:HD12	6	1.05
(1,256)	1:64:A:GLU:HG2	1:67:A:LYS:HD3	20	1.05
(1,47)	1:175:A:ASN:H	1:173:A:THR:HG21	3	1.05
(2,19)	1:153:A:HIS:H	1:78:A:PHE:O	17	1.04
(2,18)	1:152:A:VAL:H	1:137:A:LEU:O	17	1.04
(2,17)	1:140:A:ILE:H	1:126:A:ILE:O	6	1.04
(2,10)	1:94:A:LEU:H	1:97:A:ILE:O	2	1.04
(2,10)	1:94:A:LEU:H	1:97:A:ILE:O	8	1.04
(2,5)	1:89:A:VAL:H	1:77:A:VAL:O	1	1.04
(2,5)	1:89:A:VAL:H	1:77:A:VAL:O	10	1.04
(2,5)	1:89:A:VAL:H	1:77:A:VAL:O	15	1.04
(2,1)	1:35:A:GLU:H	1:31:A:VAL:O	9	1.04
(2,1)	1:35:A:GLU:H	1:31:A:VAL:O	12	1.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1)	1:35:A:GLU:H	1:31:A:VAL:O	13	1.04
(1,3533)	1:130:A:VAL:HG21	1:153:A:HIS:HD2	5	1.04
(1,3533)	1:130:A:VAL:HG23	1:153:A:HIS:HD2	7	1.04
(1,3440)	1:103:A:GLU:HG2	1:108:A:TYR:HD1	8	1.04
(1,3251)	1:46:A:LYS:HE2	1:46:A:LYS:HA	19	1.04
(1,3220)	1:127:A:VAL:HG23	1:164:A:ILE:H	4	1.04
(1,3211)	1:26:A:ALA:HB2	1:29:A:SER:HB3	8	1.04
(1,2984)	1:36:A:LYS:HE3	1:36:A:LYS:HB3	4	1.04
(1,2917)	1:141:A:SER:HB3	1:140:A:ILE:HG21	10	1.04
(1,2519)	1:68:A:ARG:HD3	1:68:A:ARG:HA	20	1.04
(1,2449)	1:46:A:LYS:HG2	1:46:A:LYS:HE2	14	1.04
(1,2392)	1:159:A:GLU:HG3	1:77:A:VAL:HG12	14	1.04
(1,2250)	1:119:A:VAL:HG21	1:53:A:MET:HG3	2	1.04
(1,2250)	1:119:A:VAL:HG21	1:53:A:MET:HG3	5	1.04
(1,2210)	1:42:A:GLU:HB3	1:43:A:ILE:HD11	9	1.04
(1,2210)	1:42:A:GLU:HB3	1:43:A:ILE:HD11	14	1.04
(1,2210)	1:42:A:GLU:HB3	1:43:A:ILE:HD12	17	1.04
(1,2133)	1:68:A:ARG:HG2	1:67:A:LYS:HD2	11	1.04
(1,2090)	1:128:A:ARG:HG2	1:140:A:ILE:HD11	14	1.04
(1,2038)	1:123:A:LYS:HG2	1:171:A:ILE:HG12	2	1.04
(1,2038)	1:123:A:LYS:HG2	1:171:A:ILE:HG12	18	1.04
(1,1981)	1:71:A:LEU:HD22	1:40:A:LEU:HB3	16	1.04
(1,1933)	1:70:A:LYS:HG3	1:36:A:LYS:HE2	16	1.04
(1,1805)	1:127:A:VAL:HG22	1:137:A:LEU:HD21	3	1.04
(1,1805)	1:127:A:VAL:HG22	1:137:A:LEU:HD23	9	1.04
(1,1805)	1:127:A:VAL:HG22	1:137:A:LEU:HD21	17	1.04
(1,1496)	1:162:A:SER:H	1:154:A:ALA:HB2	7	1.04
(1,1341)	1:100:A:PHE:H	1:99:A:VAL:HG13	7	1.04
(1,1318)	1:4:A:LYS:H	1:6:A:ASN:HD22	1	1.04
(1,1245)	1:106:A:GLN:H	1:103:A:GLU:HG3	14	1.04
(1,954)	1:139:A:LEU:H	1:137:A:LEU:HD22	2	1.04
(1,863)	1:59:A:GLN:H	1:59:A:GLN:HB2	19	1.04
(1,559)	1:93:A:LEU:H	1:92:A:VAL:HG21	3	1.04
(1,491)	1:76:A:SER:HB3	1:89:A:VAL:HG21	19	1.04
(1,464)	1:112:A:SER:HB2	1:118:A:THR:HG22	13	1.04
(1,464)	1:112:A:SER:HB2	1:118:A:THR:HG21	18	1.04
(1,454)	1:151:A:GLU:HB2	1:113:A:LEU:HD11	2	1.04
(1,453)	1:92:A:VAL:HG12	1:43:A:ILE:HG12	19	1.04
(1,380)	1:171:A:ILE:HA	1:125:A:LEU:HD13	9	1.04
(1,375)	1:49:A:SER:HB3	1:63:A:LYS:HE3	20	1.04
(1,256)	1:64:A:GLU:HG2	1:67:A:LYS:HD3	11	1.04
(1,231)	1:147:A:PRO:HB3	1:126:A:ILE:HD12	6	1.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,163)	1:40:A:LEU:HD13	1:44:A:TYR:HB2	16	1.04
(1,99)	1:171:A:ILE:HD12	1:122:A:LEU:HB2	7	1.04
(1,39)	1:170:A:THR:H	1:174:A:LEU:HD11	5	1.04
(2,17)	1:140:A:ILE:H	1:126:A:ILE:O	11	1.03
(2,10)	1:94:A:LEU:H	1:97:A:ILE:O	14	1.03
(2,6)	1:90:A:GLN:H	1:101:A:LEU:O	6	1.03
(2,6)	1:90:A:GLN:H	1:101:A:LEU:O	18	1.03
(2,5)	1:89:A:VAL:H	1:77:A:VAL:O	16	1.03
(1,3361)	1:157:A:LYS:HA	1:160:A:ARG:HB2	3	1.03
(1,3240)	1:62:A:ALA:HB1	1:61:A:PHE:HD1	1	1.03
(1,3220)	1:127:A:VAL:HG22	1:164:A:ILE:H	3	1.03
(1,3220)	1:127:A:VAL:HG23	1:164:A:ILE:H	16	1.03
(1,3176)	1:159:A:GLU:HG3	1:155:A:SER:HB2	9	1.03
(1,3066)	1:33:A:SER:HB2	1:30:A:LYS:HG2	3	1.03
(1,3013)	1:156:A:SER:HA	1:135:A:LYS:HD3	3	1.03
(1,2908)	1:123:A:LYS:HB2	1:123:A:LYS:HE2	6	1.03
(1,2624)	1:107:A:LYS:HA	1:46:A:LYS:HG3	4	1.03
(1,2624)	1:107:A:LYS:HA	1:46:A:LYS:HG3	7	1.03
(1,2484)	1:36:A:LYS:HG3	1:36:A:LYS:HE3	6	1.03
(1,2480)	1:69:A:LYS:HE3	1:97:A:ILE:HG13	6	1.03
(1,2439)	1:28:A:ASP:HB2	1:25:A:GLY:HA3	12	1.03
(1,2352)	1:130:A:VAL:HG13	1:133:A:GLU:HG2	14	1.03
(1,2210)	1:42:A:GLU:HB3	1:43:A:ILE:HD11	3	1.03
(1,2210)	1:42:A:GLU:HB3	1:43:A:ILE:HD13	10	1.03
(1,1981)	1:71:A:LEU:HD22	1:40:A:LEU:HB3	7	1.03
(1,1926)	1:19:A:LEU:HD11	1:18:A:SER:HB2	10	1.03
(1,1833)	1:118:A:THR:HG23	1:100:A:PHE:HB3	1	1.03
(1,1833)	1:118:A:THR:HG23	1:100:A:PHE:HB3	16	1.03
(1,1805)	1:127:A:VAL:HG22	1:137:A:LEU:HD23	14	1.03
(1,1805)	1:127:A:VAL:HG23	1:137:A:LEU:HD23	16	1.03
(1,1805)	1:127:A:VAL:HG23	1:137:A:LEU:HD22	19	1.03
(1,1801)	1:127:A:VAL:HG12	1:139:A:LEU:HD23	7	1.03
(1,1801)	1:127:A:VAL:HG11	1:139:A:LEU:HD21	10	1.03
(1,1712)	1:119:A:VAL:HG22	1:99:A:VAL:HG11	2	1.03
(1,1496)	1:162:A:SER:H	1:154:A:ALA:HB2	20	1.03
(1,1318)	1:4:A:LYS:H	1:6:A:ASN:HD22	16	1.03
(1,1135)	1:66:A:LEU:H	1:66:A:LEU:HD21	9	1.03
(1,1135)	1:66:A:LEU:H	1:66:A:LEU:HD21	14	1.03
(1,1135)	1:66:A:LEU:H	1:66:A:LEU:HD22	16	1.03
(1,954)	1:139:A:LEU:H	1:137:A:LEU:HD22	1	1.03
(1,781)	1:92:A:VAL:H	1:92:A:VAL:HG11	9	1.03
(1,781)	1:92:A:VAL:H	1:92:A:VAL:HG13	13	1.03

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,701)	1:137:A:LEU:H	1:130:A:VAL:HG23	13	1.03
(1,559)	1:93:A:LEU:H	1:92:A:VAL:HG21	4	1.03
(1,559)	1:93:A:LEU:H	1:92:A:VAL:HG21	8	1.03
(1,559)	1:93:A:LEU:H	1:92:A:VAL:HG23	14	1.03
(1,559)	1:93:A:LEU:H	1:92:A:VAL:HG22	15	1.03
(1,541)	1:91:A:ALA:H	1:90:A:GLN:HG3	5	1.03
(1,464)	1:112:A:SER:HB3	1:118:A:THR:HG23	4	1.03
(1,464)	1:112:A:SER:HB3	1:118:A:THR:HG21	16	1.03
(1,464)	1:112:A:SER:HB3	1:118:A:THR:HG23	17	1.03
(1,454)	1:151:A:GLU:HB2	1:113:A:LEU:HD12	18	1.03
(1,416)	1:18:A:SER:HA	1:24:A:ILE:HD12	16	1.03
(1,414)	1:128:A:ARG:HA	1:164:A:ILE:HD12	1	1.03
(1,414)	1:128:A:ARG:HA	1:164:A:ILE:HD13	20	1.03
(1,380)	1:171:A:ILE:HA	1:125:A:LEU:HD11	15	1.03
(1,375)	1:49:A:SER:HB3	1:63:A:LYS:HE3	19	1.03
(1,254)	1:87:A:LYS:HB2	1:87:A:LYS:HD2	17	1.03
(1,212)	1:79:A:LEU:HD13	1:87:A:LYS:HD3	8	1.03
(1,99)	1:171:A:ILE:HD12	1:122:A:LEU:HB2	16	1.03
(1,36)	1:169:A:ASP:H	1:171:A:ILE:HD12	6	1.03
(1,9)	1:98:A:LEU:H	1:120:A:ILE:HG21	17	1.03
(2,20)	1:154:A:ALA:H	1:135:A:LYS:O	3	1.02
(2,20)	1:154:A:ALA:H	1:135:A:LYS:O	10	1.02
(2,19)	1:153:A:HIS:H	1:78:A:PHE:O	13	1.02
(2,16)	1:137:A:LEU:H	1:135:A:LYS:O	11	1.02
(2,10)	1:94:A:LEU:H	1:97:A:ILE:O	7	1.02
(2,10)	1:94:A:LEU:H	1:97:A:ILE:O	11	1.02
(2,10)	1:94:A:LEU:H	1:97:A:ILE:O	20	1.02
(2,7)	1:91:A:ALA:H	1:75:A:GLY:O	16	1.02
(2,4)	1:79:A:LEU:H	1:87:A:LYS:O	18	1.02
(1,3533)	1:130:A:VAL:HG23	1:153:A:HIS:HD2	11	1.02
(1,3468)	1:138:A:PHE:HD1	1:151:A:GLU:HG3	17	1.02
(1,3387)	1:94:A:LEU:HD11	1:97:A:ILE:HD13	7	1.02
(1,3240)	1:62:A:ALA:HB3	1:61:A:PHE:HD1	9	1.02
(1,3233)	1:86:A:LEU:HD23	1:78:A:PHE:HE2	12	1.02
(1,3233)	1:86:A:LEU:HD22	1:78:A:PHE:HE2	20	1.02
(1,3220)	1:127:A:VAL:HG23	1:164:A:ILE:H	19	1.02
(1,3163)	1:97:A:ILE:HG22	1:97:A:ILE:HG13	1	1.02
(1,3066)	1:33:A:SER:HB2	1:30:A:LYS:HG2	1	1.02
(1,2984)	1:36:A:LYS:HE3	1:36:A:LYS:HB3	6	1.02
(1,2917)	1:141:A:SER:HB3	1:140:A:ILE:HG23	9	1.02
(1,2890)	1:47:A:THR:HG22	1:108:A:TYR:HB3	1	1.02
(1,2890)	1:47:A:THR:HG22	1:108:A:TYR:HB3	3	1.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2890)	1:47:A:THR:HG21	1:108:A:TYR:HB3	6	1.02
(1,2841)	1:16:A:SER:HB2	1:3:A:THR:HB	13	1.02
(1,2836)	1:141:A:SER:HB2	1:147:A:PRO:HB2	1	1.02
(1,2836)	1:141:A:SER:HB2	1:147:A:PRO:HB2	19	1.02
(1,2739)	1:123:A:LYS:HD3	1:123:A:LYS:HA	7	1.02
(1,2739)	1:123:A:LYS:HD3	1:123:A:LYS:HA	8	1.02
(1,2732)	1:184:A:SER:HA	1:59:A:GLN:HB2	16	1.02
(1,2660)	1:130:A:VAL:HG23	1:138:A:PHE:HA	7	1.02
(1,2624)	1:107:A:LYS:HA	1:46:A:LYS:HG3	8	1.02
(1,2624)	1:107:A:LYS:HA	1:46:A:LYS:HG3	15	1.02
(1,2624)	1:107:A:LYS:HA	1:46:A:LYS:HG3	18	1.02
(1,2558)	1:91:A:ALA:HA	1:92:A:VAL:HG12	5	1.02
(1,2558)	1:91:A:ALA:HA	1:92:A:VAL:HG11	7	1.02
(1,2558)	1:91:A:ALA:HA	1:92:A:VAL:HG13	15	1.02
(1,2484)	1:36:A:LYS:HG3	1:36:A:LYS:HE3	10	1.02
(1,2484)	1:36:A:LYS:HG3	1:36:A:LYS:HE3	16	1.02
(1,2457)	1:87:A:LYS:HB2	1:87:A:LYS:HE2	17	1.02
(1,2381)	1:35:A:GLU:HG2	1:32:A:ALA:HB2	3	1.02
(1,2381)	1:35:A:GLU:HG2	1:32:A:ALA:HB1	12	1.02
(1,2381)	1:35:A:GLU:HG2	1:32:A:ALA:HB1	18	1.02
(1,2250)	1:119:A:VAL:HG22	1:53:A:MET:HG3	4	1.02
(1,2245)	1:163:A:TRP:HB3	1:164:A:ILE:HD12	14	1.02
(1,2245)	1:163:A:TRP:HB3	1:164:A:ILE:HD11	18	1.02
(1,2245)	1:163:A:TRP:HB3	1:164:A:ILE:HD12	19	1.02
(1,2245)	1:163:A:TRP:HB3	1:164:A:ILE:HD12	20	1.02
(1,2121)	1:137:A:LEU:HD13	1:160:A:ARG:HB3	18	1.02
(1,2038)	1:123:A:LYS:HG2	1:171:A:ILE:HG12	20	1.02
(1,2028)	1:124:A:LYS:HG2	1:123:A:LYS:HD3	8	1.02
(1,2028)	1:124:A:LYS:HG2	1:123:A:LYS:HD3	18	1.02
(1,2024)	1:94:A:LEU:HD22	1:61:A:PHE:HE1	9	1.02
(1,2024)	1:94:A:LEU:HD21	1:61:A:PHE:HE1	14	1.02
(1,1972)	1:66:A:LEU:HD13	1:101:A:LEU:HD11	19	1.02
(1,1881)	1:66:A:LEU:HD23	1:110:A:PHE:HZ	11	1.02
(1,1833)	1:118:A:THR:HG21	1:100:A:PHE:HB3	12	1.02
(1,1805)	1:127:A:VAL:HG22	1:137:A:LEU:HD21	20	1.02
(1,1801)	1:127:A:VAL:HG11	1:139:A:LEU:HD23	16	1.02
(1,1801)	1:127:A:VAL:HG12	1:139:A:LEU:HD22	18	1.02
(1,1766)	1:99:A:VAL:HG13	1:110:A:PHE:HE1	13	1.02
(1,1753)	1:97:A:ILE:HD11	1:99:A:VAL:HG22	16	1.02
(1,1496)	1:162:A:SER:H	1:154:A:ALA:HB2	4	1.02
(1,1496)	1:162:A:SER:H	1:154:A:ALA:HB2	15	1.02
(1,1434)	1:58:A:GLY:H	1:55:A:MET:HG2	19	1.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1365)	1:135:A:LYS:H	1:135:A:LYS:HD2	1	1.02
(1,1341)	1:100:A:PHE:H	1:99:A:VAL:HG11	12	1.02
(1,988)	1:158:A:GLU:H	1:158:A:GLU:HG3	14	1.02
(1,781)	1:92:A:VAL:H	1:92:A:VAL:HG11	3	1.02
(1,781)	1:92:A:VAL:H	1:92:A:VAL:HG11	6	1.02
(1,781)	1:92:A:VAL:H	1:92:A:VAL:HG11	18	1.02
(1,559)	1:93:A:LEU:H	1:92:A:VAL:HG22	1	1.02
(1,559)	1:93:A:LEU:H	1:92:A:VAL:HG23	2	1.02
(1,559)	1:93:A:LEU:H	1:92:A:VAL:HG22	10	1.02
(1,559)	1:93:A:LEU:H	1:92:A:VAL:HG22	11	1.02
(1,559)	1:93:A:LEU:H	1:92:A:VAL:HG23	18	1.02
(1,492)	1:95:A:THR:HG22	1:10:A:GLN:HB2	2	1.02
(1,464)	1:112:A:SER:HB3	1:118:A:THR:HG23	3	1.02
(1,462)	1:94:A:LEU:HD21	1:93:A:LEU:H	17	1.02
(1,453)	1:92:A:VAL:HG11	1:43:A:ILE:HG12	4	1.02
(1,375)	1:49:A:SER:HB3	1:63:A:LYS:HE3	18	1.02
(1,347)	1:162:A:SER:HB3	1:166:A:ILE:HD13	12	1.02
(1,276)	1:22:A:ASP:HB2	1:26:A:ALA:HB1	5	1.02
(1,256)	1:64:A:GLU:HG3	1:67:A:LYS:HD3	9	1.02
(1,254)	1:87:A:LYS:HB2	1:87:A:LYS:HD2	4	1.02
(1,254)	1:87:A:LYS:HB2	1:87:A:LYS:HD2	8	1.02
(1,97)	1:166:A:ILE:HD13	1:163:A:TRP:HA	19	1.02
(1,36)	1:169:A:ASP:H	1:171:A:ILE:HD12	4	1.02
(1,36)	1:169:A:ASP:H	1:171:A:ILE:HD13	20	1.02
(1,9)	1:98:A:LEU:H	1:120:A:ILE:HG22	7	1.02
(2,19)	1:153:A:HIS:H	1:78:A:PHE:O	19	1.01
(2,17)	1:140:A:ILE:H	1:126:A:ILE:O	1	1.01
(2,10)	1:94:A:LEU:H	1:97:A:ILE:O	6	1.01
(2,5)	1:89:A:VAL:H	1:77:A:VAL:O	11	1.01
(2,5)	1:89:A:VAL:H	1:77:A:VAL:O	17	1.01
(1,3440)	1:103:A:GLU:HG2	1:108:A:TYR:HD1	9	1.01
(1,3254)	1:99:A:VAL:HG13	1:119:A:VAL:HA	8	1.01
(1,3220)	1:127:A:VAL:HG22	1:164:A:ILE:H	9	1.01
(1,3137)	1:107:A:LYS:HD3	1:46:A:LYS:HA	9	1.01
(1,2985)	1:36:A:LYS:HE3	1:36:A:LYS:HB2	1	1.01
(1,2984)	1:36:A:LYS:HE3	1:36:A:LYS:HB3	8	1.01
(1,2984)	1:36:A:LYS:HE3	1:36:A:LYS:HB3	9	1.01
(1,2965)	1:46:A:LYS:HE3	1:108:A:TYR:HE2	19	1.01
(1,2917)	1:141:A:SER:HB3	1:140:A:ILE:HG21	4	1.01
(1,2908)	1:123:A:LYS:HB2	1:123:A:LYS:HE2	4	1.01
(1,2908)	1:123:A:LYS:HB2	1:123:A:LYS:HE2	16	1.01
(1,2890)	1:47:A:THR:HG22	1:108:A:TYR:HB3	7	1.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2833)	1:63:A:LYS:HD2	1:49:A:SER:HB2	5	1.01
(1,2788)	1:158:A:GLU:HA	1:161:A:ASN:HB3	7	1.01
(1,2737)	1:134:A:GLU:HA	1:157:A:LYS:HG3	18	1.01
(1,2660)	1:130:A:VAL:HG21	1:138:A:PHE:HA	20	1.01
(1,2594)	1:14:A:ALA:HA	1:19:A:LEU:HB2	14	1.01
(1,2581)	1:53:A:MET:HA	1:119:A:VAL:HG11	1	1.01
(1,2558)	1:91:A:ALA:HA	1:92:A:VAL:HG11	1	1.01
(1,2457)	1:87:A:LYS:HB2	1:87:A:LYS:HE2	8	1.01
(1,2439)	1:28:A:ASP:HB2	1:25:A:GLY:HA3	5	1.01
(1,2392)	1:159:A:GLU:HG3	1:77:A:VAL:HG13	11	1.01
(1,2245)	1:163:A:TRP:HB3	1:164:A:ILE:HD13	3	1.01
(1,2133)	1:68:A:ARG:HG2	1:67:A:LYS:HD2	19	1.01
(1,2090)	1:128:A:ARG:HG2	1:140:A:ILE:HD13	4	1.01
(1,1833)	1:118:A:THR:HG22	1:100:A:PHE:HB3	17	1.01
(1,1801)	1:127:A:VAL:HG11	1:139:A:LEU:HD23	15	1.01
(1,1766)	1:99:A:VAL:HG13	1:110:A:PHE:HE1	1	1.01
(1,1766)	1:99:A:VAL:HG11	1:110:A:PHE:HE1	8	1.01
(1,1753)	1:97:A:ILE:HD13	1:99:A:VAL:HG21	14	1.01
(1,1563)	1:97:A:ILE:HD11	1:61:A:PHE:HD1	10	1.01
(1,1341)	1:100:A:PHE:H	1:99:A:VAL:HG11	6	1.01
(1,1245)	1:106:A:GLN:H	1:103:A:GLU:HG3	9	1.01
(1,1041)	1:70:A:LYS:H	1:94:A:LEU:HB2	15	1.01
(1,988)	1:158:A:GLU:H	1:158:A:GLU:HG3	3	1.01
(1,781)	1:92:A:VAL:H	1:92:A:VAL:HG12	1	1.01
(1,781)	1:92:A:VAL:H	1:92:A:VAL:HG13	2	1.01
(1,781)	1:92:A:VAL:H	1:92:A:VAL:HG13	8	1.01
(1,781)	1:92:A:VAL:H	1:92:A:VAL:HG12	11	1.01
(1,781)	1:92:A:VAL:H	1:92:A:VAL:HG12	14	1.01
(1,781)	1:92:A:VAL:H	1:92:A:VAL:HG13	16	1.01
(1,781)	1:92:A:VAL:H	1:92:A:VAL:HG12	17	1.01
(1,781)	1:92:A:VAL:H	1:92:A:VAL:HG11	20	1.01
(1,559)	1:93:A:LEU:H	1:92:A:VAL:HG23	17	1.01
(1,491)	1:76:A:SER:HB3	1:89:A:VAL:HG23	15	1.01
(1,464)	1:112:A:SER:HB3	1:118:A:THR:HG23	5	1.01
(1,463)	1:139:A:LEU:HD13	1:120:A:ILE:H	12	1.01
(1,388)	1:128:A:ARG:HB3	1:126:A:ILE:HD11	19	1.01
(1,380)	1:171:A:ILE:HA	1:125:A:LEU:HD13	1	1.01
(1,380)	1:171:A:ILE:HA	1:125:A:LEU:HD11	10	1.01
(1,380)	1:171:A:ILE:HA	1:125:A:LEU:HD11	13	1.01
(1,380)	1:171:A:ILE:HA	1:125:A:LEU:HD11	16	1.01
(1,347)	1:162:A:SER:HB3	1:166:A:ILE:HD13	17	1.01
(1,254)	1:87:A:LYS:HB2	1:87:A:LYS:HD2	15	1.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,254)	1:87:A:LYS:HB2	1:87:A:LYS:HD2	18	1.01
(1,219)	1:42:A:GLU:HB3	1:39:A:ARG:HB2	17	1.01
(1,210)	1:70:A:LYS:HD2	1:8:A:VAL:HG22	13	1.01
(1,97)	1:166:A:ILE:HD13	1:163:A:TRP:HA	4	1.01
(2,20)	1:154:A:ALA:H	1:135:A:LYS:O	16	1.0
(2,18)	1:152:A:VAL:H	1:137:A:LEU:O	5	1.0
(2,14)	1:102:A:GLN:H	1:109:A:ILE:O	20	1.0
(2,10)	1:94:A:LEU:H	1:97:A:ILE:O	5	1.0
(2,7)	1:91:A:ALA:H	1:75:A:GLY:O	17	1.0
(2,5)	1:89:A:VAL:H	1:77:A:VAL:O	8	1.0
(1,3440)	1:103:A:GLU:HG2	1:108:A:TYR:HD1	13	1.0
(1,3361)	1:157:A:LYS:HA	1:160:A:ARG:HB2	7	1.0
(1,3233)	1:86:A:LEU:HD21	1:78:A:PHE:HE2	1	1.0
(1,3233)	1:86:A:LEU:HD21	1:78:A:PHE:HE2	10	1.0
(1,3233)	1:86:A:LEU:HD23	1:78:A:PHE:HE2	17	1.0
(1,3220)	1:127:A:VAL:HG22	1:164:A:ILE:H	7	1.0
(1,3214)	1:15:A:GLN:HB3	1:2:A:MET:HG2	14	1.0
(1,3176)	1:159:A:GLU:HG3	1:155:A:SER:HB2	15	1.0
(1,3163)	1:97:A:ILE:HG21	1:97:A:ILE:HG13	5	1.0
(1,3163)	1:97:A:ILE:HG21	1:97:A:ILE:HG13	13	1.0
(1,3163)	1:97:A:ILE:HG23	1:97:A:ILE:HG13	15	1.0
(1,3163)	1:97:A:ILE:HG22	1:97:A:ILE:HG13	17	1.0
(1,2984)	1:36:A:LYS:HE3	1:36:A:LYS:HB3	11	1.0
(1,2944)	1:53:A:MET:HE1	1:53:A:MET:HB2	10	1.0
(1,2944)	1:53:A:MET:HE3	1:53:A:MET:HB2	14	1.0
(1,2944)	1:53:A:MET:HE1	1:53:A:MET:HB2	16	1.0
(1,2917)	1:141:A:SER:HB3	1:140:A:ILE:HG22	8	1.0
(1,2908)	1:123:A:LYS:HB2	1:123:A:LYS:HE2	17	1.0
(1,2899)	1:142:A:MET:HB3	1:126:A:ILE:HG12	18	1.0
(1,2890)	1:47:A:THR:HG23	1:108:A:TYR:HB3	4	1.0
(1,2833)	1:63:A:LYS:HD2	1:49:A:SER:HB2	12	1.0
(1,2788)	1:158:A:GLU:HA	1:161:A:ASN:HB3	5	1.0
(1,2660)	1:130:A:VAL:HG21	1:138:A:PHE:HA	13	1.0
(1,2645)	1:142:A:MET:HA	1:147:A:PRO:HG2	5	1.0
(1,2624)	1:107:A:LYS:HA	1:46:A:LYS:HG3	16	1.0
(1,2581)	1:53:A:MET:HA	1:119:A:VAL:HG11	15	1.0
(1,2558)	1:91:A:ALA:HA	1:92:A:VAL:HG11	10	1.0
(1,2484)	1:36:A:LYS:HG3	1:36:A:LYS:HE3	17	1.0
(1,2439)	1:28:A:ASP:HB2	1:25:A:GLY:HA3	13	1.0
(1,2381)	1:35:A:GLU:HG2	1:32:A:ALA:HB3	19	1.0
(1,2353)	1:133:A:GLU:HG3	1:130:A:VAL:HG11	13	1.0
(1,2352)	1:130:A:VAL:HG11	1:133:A:GLU:HG2	6	1.0

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2315)	1:4:A:LYS:HB3	1:4:A:LYS:HD2	6	1.0
(1,2210)	1:42:A:GLU:HB3	1:43:A:ILE:HD12	4	1.0
(1,2210)	1:42:A:GLU:HB3	1:43:A:ILE:HD13	7	1.0
(1,2210)	1:42:A:GLU:HB3	1:43:A:ILE:HD12	20	1.0
(1,2024)	1:94:A:LEU:HD23	1:61:A:PHE:HE1	16	1.0
(1,1972)	1:66:A:LEU:HD12	1:101:A:LEU:HD12	14	1.0
(1,1881)	1:66:A:LEU:HD23	1:110:A:PHE:HZ	20	1.0
(1,1833)	1:118:A:THR:HG22	1:100:A:PHE:HB3	3	1.0
(1,1801)	1:127:A:VAL:HG11	1:139:A:LEU:HD21	14	1.0
(1,1766)	1:99:A:VAL:HG12	1:110:A:PHE:HE1	15	1.0
(1,1753)	1:97:A:ILE:HD13	1:99:A:VAL:HG21	8	1.0
(1,1496)	1:162:A:SER:H	1:154:A:ALA:HB2	3	1.0
(1,1041)	1:70:A:LYS:H	1:94:A:LEU:HB2	19	1.0
(1,781)	1:92:A:VAL:H	1:92:A:VAL:HG12	4	1.0
(1,781)	1:92:A:VAL:H	1:92:A:VAL:HG13	19	1.0
(1,559)	1:93:A:LEU:H	1:92:A:VAL:HG22	7	1.0
(1,559)	1:93:A:LEU:H	1:92:A:VAL:HG22	12	1.0
(1,491)	1:76:A:SER:HB3	1:89:A:VAL:HG22	6	1.0
(1,464)	1:112:A:SER:HB3	1:118:A:THR:HG22	2	1.0
(1,463)	1:139:A:LEU:HD11	1:120:A:ILE:H	8	1.0
(1,460)	1:29:A:SER:HA	1:20:A:VAL:HG22	5	1.0
(1,442)	1:31:A:VAL:HG21	1:30:A:LYS:HD3	10	1.0
(1,414)	1:128:A:ARG:HA	1:164:A:ILE:HD11	12	1.0
(1,392)	1:35:A:GLU:HB3	1:31:A:VAL:HG21	13	1.0
(1,286)	1:39:A:ARG:HD2	1:71:A:LEU:HD23	6	1.0
(1,286)	1:39:A:ARG:HD2	1:71:A:LEU:HD21	7	1.0
(1,115)	1:86:A:LEU:HD21	1:87:A:LYS:HD2	20	1.0
(1,36)	1:169:A:ASP:H	1:166:A:ILE:HD11	14	1.0
(1,9)	1:98:A:LEU:H	1:120:A:ILE:HG23	9	1.0
(2,17)	1:140:A:ILE:H	1:126:A:ILE:O	4	0.99
(2,17)	1:140:A:ILE:H	1:126:A:ILE:O	16	0.99
(2,17)	1:140:A:ILE:H	1:126:A:ILE:O	20	0.99
(2,14)	1:102:A:GLN:H	1:109:A:ILE:O	14	0.99
(2,14)	1:102:A:GLN:H	1:109:A:ILE:O	16	0.99
(2,7)	1:91:A:ALA:H	1:75:A:GLY:O	9	0.99
(2,7)	1:91:A:ALA:H	1:75:A:GLY:O	13	0.99
(2,7)	1:91:A:ALA:H	1:75:A:GLY:O	15	0.99
(2,5)	1:89:A:VAL:H	1:77:A:VAL:O	20	0.99
(1,3440)	1:103:A:GLU:HG2	1:108:A:TYR:HD1	15	0.99
(1,3387)	1:94:A:LEU:HD12	1:97:A:ILE:HD11	4	0.99
(1,3387)	1:94:A:LEU:HD12	1:97:A:ILE:HD11	9	0.99
(1,3361)	1:157:A:LYS:HA	1:160:A:ARG:HB2	4	0.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3233)	1:86:A:LEU:HD22	1:78:A:PHE:HE2	19	0.99
(1,3220)	1:127:A:VAL:HG23	1:164:A:ILE:H	13	0.99
(1,3163)	1:97:A:ILE:HG22	1:97:A:ILE:HG13	2	0.99
(1,3163)	1:97:A:ILE:HG23	1:97:A:ILE:HG13	3	0.99
(1,3163)	1:97:A:ILE:HG22	1:97:A:ILE:HG13	4	0.99
(1,3163)	1:97:A:ILE:HG21	1:97:A:ILE:HG13	7	0.99
(1,3163)	1:97:A:ILE:HG22	1:97:A:ILE:HG13	11	0.99
(1,3163)	1:97:A:ILE:HG22	1:97:A:ILE:HG13	12	0.99
(1,3163)	1:97:A:ILE:HG23	1:97:A:ILE:HG13	20	0.99
(1,3137)	1:107:A:LYS:HD3	1:46:A:LYS:HA	5	0.99
(1,3090)	1:58:A:GLY:HA3	1:54:A:ARG:HG3	3	0.99
(1,2944)	1:53:A:MET:HE1	1:53:A:MET:HB2	6	0.99
(1,2944)	1:53:A:MET:HE3	1:53:A:MET:HB2	15	0.99
(1,2944)	1:53:A:MET:HE2	1:53:A:MET:HB2	18	0.99
(1,2944)	1:53:A:MET:HE3	1:53:A:MET:HB2	20	0.99
(1,2917)	1:141:A:SER:HB3	1:140:A:ILE:HG22	7	0.99
(1,2899)	1:142:A:MET:HB3	1:126:A:ILE:HG12	9	0.99
(1,2890)	1:47:A:THR:HG21	1:108:A:TYR:HB3	5	0.99
(1,2788)	1:158:A:GLU:HA	1:161:A:ASN:HB3	15	0.99
(1,2624)	1:107:A:LYS:HA	1:46:A:LYS:HG3	13	0.99
(1,2624)	1:107:A:LYS:HA	1:46:A:LYS:HG3	14	0.99
(1,2581)	1:53:A:MET:HA	1:119:A:VAL:HG11	11	0.99
(1,2581)	1:53:A:MET:HA	1:119:A:VAL:HG11	20	0.99
(1,2508)	1:73:A:ARG:HD2	1:166:A:ILE:HG12	7	0.99
(1,2484)	1:36:A:LYS:HG3	1:36:A:LYS:HE3	9	0.99
(1,2480)	1:69:A:LYS:HE3	1:97:A:ILE:HG13	9	0.99
(1,2352)	1:130:A:VAL:HG13	1:133:A:GLU:HG2	9	0.99
(1,2245)	1:163:A:TRP:HB3	1:164:A:ILE:HD12	7	0.99
(1,2245)	1:163:A:TRP:HB3	1:164:A:ILE:HD12	15	0.99
(1,2210)	1:42:A:GLU:HB3	1:43:A:ILE:HD12	1	0.99
(1,2024)	1:94:A:LEU:HD23	1:61:A:PHE:HE1	19	0.99
(1,1881)	1:66:A:LEU:HD21	1:110:A:PHE:HZ	4	0.99
(1,1881)	1:66:A:LEU:HD21	1:110:A:PHE:HZ	13	0.99
(1,1805)	1:127:A:VAL:HG23	1:137:A:LEU:HD23	12	0.99
(1,1794)	1:113:A:LEU:HD21	1:79:A:LEU:HB2	1	0.99
(1,1563)	1:97:A:ILE:HD12	1:61:A:PHE:HD1	11	0.99
(1,1496)	1:162:A:SER:H	1:154:A:ALA:HB1	1	0.99
(1,954)	1:139:A:LEU:H	1:137:A:LEU:HD22	15	0.99
(1,863)	1:59:A:GLN:H	1:59:A:GLN:HB2	3	0.99
(1,863)	1:59:A:GLN:H	1:59:A:GLN:HB2	14	0.99
(1,819)	1:130:A:VAL:H	1:130:A:VAL:HG22	17	0.99
(1,781)	1:92:A:VAL:H	1:92:A:VAL:HG13	5	0.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,781)	1:92:A:VAL:H	1:92:A:VAL:HG12	7	0.99
(1,781)	1:92:A:VAL:H	1:92:A:VAL:HG12	10	0.99
(1,781)	1:92:A:VAL:H	1:92:A:VAL:HG13	12	0.99
(1,559)	1:93:A:LEU:H	1:92:A:VAL:HG22	16	0.99
(1,491)	1:76:A:SER:HB3	1:89:A:VAL:HG23	2	0.99
(1,460)	1:29:A:SER:HA	1:20:A:VAL:HG22	19	0.99
(1,454)	1:151:A:GLU:HB2	1:113:A:LEU:HD11	5	0.99
(1,443)	1:21:A:LYS:HE2	1:20:A:VAL:HG23	7	0.99
(1,442)	1:31:A:VAL:HG21	1:30:A:LYS:HD3	7	0.99
(1,442)	1:31:A:VAL:HG22	1:30:A:LYS:HD3	20	0.99
(1,163)	1:40:A:LEU:HD13	1:44:A:TYR:HB2	11	0.99
(1,125)	1:62:A:ALA:HB2	1:64:A:GLU:HG2	20	0.99
(1,36)	1:169:A:ASP:H	1:171:A:ILE:HD13	7	0.99
(2,20)	1:154:A:ALA:H	1:135:A:LYS:O	2	0.98
(2,17)	1:140:A:ILE:H	1:126:A:ILE:O	8	0.98
(2,14)	1:102:A:GLN:H	1:109:A:ILE:O	13	0.98
(2,7)	1:91:A:ALA:H	1:75:A:GLY:O	3	0.98
(2,7)	1:91:A:ALA:H	1:75:A:GLY:O	6	0.98
(2,7)	1:91:A:ALA:H	1:75:A:GLY:O	14	0.98
(2,7)	1:91:A:ALA:H	1:75:A:GLY:O	20	0.98
(2,5)	1:89:A:VAL:H	1:77:A:VAL:O	6	0.98
(2,4)	1:79:A:LEU:H	1:87:A:LYS:O	5	0.98
(1,3440)	1:103:A:GLU:HG2	1:108:A:TYR:HD1	14	0.98
(1,3240)	1:62:A:ALA:HB1	1:61:A:PHE:HD1	4	0.98
(1,3240)	1:62:A:ALA:HB3	1:61:A:PHE:HD1	16	0.98
(1,3163)	1:97:A:ILE:HG23	1:97:A:ILE:HG13	9	0.98
(1,3163)	1:97:A:ILE:HG22	1:97:A:ILE:HG13	16	0.98
(1,3066)	1:33:A:SER:HB2	1:30:A:LYS:HG2	20	0.98
(1,3047)	1:54:A:ARG:HA	1:53:A:MET:HE2	18	0.98
(1,2984)	1:36:A:LYS:HE3	1:36:A:LYS:HB3	14	0.98
(1,2944)	1:53:A:MET:HE2	1:53:A:MET:HB2	1	0.98
(1,2944)	1:53:A:MET:HE3	1:53:A:MET:HB2	11	0.98
(1,2917)	1:141:A:SER:HB3	1:140:A:ILE:HG22	20	0.98
(1,2908)	1:123:A:LYS:HB2	1:123:A:LYS:HE2	11	0.98
(1,2899)	1:142:A:MET:HB3	1:126:A:ILE:HG12	8	0.98
(1,2660)	1:130:A:VAL:HG23	1:138:A:PHE:HA	2	0.98
(1,2660)	1:130:A:VAL:HG23	1:138:A:PHE:HA	4	0.98
(1,2660)	1:130:A:VAL:HG23	1:138:A:PHE:HA	19	0.98
(1,2645)	1:142:A:MET:HA	1:147:A:PRO:HG2	6	0.98
(1,2645)	1:142:A:MET:HA	1:147:A:PRO:HG2	8	0.98
(1,2558)	1:91:A:ALA:HA	1:92:A:VAL:HG11	4	0.98
(1,2558)	1:91:A:ALA:HA	1:92:A:VAL:HG12	8	0.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2558)	1:91:A:ALA:HA	1:92:A:VAL:HG12	12	0.98
(1,2558)	1:91:A:ALA:HA	1:92:A:VAL:HG12	16	0.98
(1,2558)	1:91:A:ALA:HA	1:92:A:VAL:HG11	17	0.98
(1,2484)	1:36:A:LYS:HG3	1:36:A:LYS:HE3	3	0.98
(1,2480)	1:69:A:LYS:HE3	1:97:A:ILE:HG13	2	0.98
(1,2457)	1:87:A:LYS:HB2	1:87:A:LYS:HE2	15	0.98
(1,2352)	1:130:A:VAL:HG11	1:133:A:GLU:HG2	7	0.98
(1,2328)	1:4:A:LYS:HB3	1:8:A:VAL:HG11	10	0.98
(1,2245)	1:163:A:TRP:HB3	1:164:A:ILE:HD11	4	0.98
(1,2210)	1:42:A:GLU:HB3	1:43:A:ILE:HD11	5	0.98
(1,2195)	1:35:A:GLU:HB3	1:32:A:ALA:HB2	2	0.98
(1,2038)	1:123:A:LYS:HG2	1:171:A:ILE:HG12	3	0.98
(1,2028)	1:124:A:LYS:HG2	1:123:A:LYS:HD3	7	0.98
(1,2028)	1:124:A:LYS:HG2	1:123:A:LYS:HD3	19	0.98
(1,1955)	1:66:A:LEU:HD13	1:99:A:VAL:HB	10	0.98
(1,1926)	1:19:A:LEU:HD13	1:18:A:SER:HB2	15	0.98
(1,1881)	1:66:A:LEU:HD22	1:110:A:PHE:HZ	12	0.98
(1,1805)	1:127:A:VAL:HG22	1:137:A:LEU:HD22	7	0.98
(1,1766)	1:99:A:VAL:HG13	1:110:A:PHE:HE1	6	0.98
(1,1766)	1:99:A:VAL:HG13	1:110:A:PHE:HE1	14	0.98
(1,1766)	1:99:A:VAL:HG11	1:110:A:PHE:HE1	16	0.98
(1,1766)	1:99:A:VAL:HG13	1:110:A:PHE:HE1	19	0.98
(1,1753)	1:97:A:ILE:HD12	1:99:A:VAL:HG22	13	0.98
(1,1607)	1:142:A:MET:HE2	1:142:A:MET:HB3	6	0.98
(1,1508)	1:69:A:LYS:H	1:68:A:ARG:HG2	20	0.98
(1,1496)	1:162:A:SER:H	1:154:A:ALA:HB2	10	0.98
(1,1245)	1:106:A:GLN:H	1:103:A:GLU:HG3	1	0.98
(1,781)	1:92:A:VAL:H	1:92:A:VAL:HG11	15	0.98
(1,492)	1:95:A:THR:HG21	1:10:A:GLN:HB2	10	0.98
(1,491)	1:76:A:SER:HB3	1:89:A:VAL:HG22	10	0.98
(1,464)	1:112:A:SER:HB3	1:118:A:THR:HG22	14	0.98
(1,463)	1:139:A:LEU:HD13	1:120:A:ILE:H	11	0.98
(1,463)	1:139:A:LEU:HD13	1:120:A:ILE:H	14	0.98
(1,462)	1:94:A:LEU:HD21	1:93:A:LEU:H	8	0.98
(1,460)	1:29:A:SER:HA	1:20:A:VAL:HG21	8	0.98
(1,454)	1:151:A:GLU:HB2	1:113:A:LEU:HD11	14	0.98
(1,454)	1:151:A:GLU:HB2	1:113:A:LEU:HD13	15	0.98
(1,442)	1:31:A:VAL:HG23	1:30:A:LYS:HD3	3	0.98
(1,414)	1:128:A:ARG:HA	1:126:A:ILE:HD11	19	0.98
(1,347)	1:162:A:SER:HB3	1:166:A:ILE:HD11	2	0.98
(1,125)	1:62:A:ALA:HB2	1:64:A:GLU:HG2	11	0.98
(1,58)	1:13:A:LEU:H	1:19:A:LEU:HD13	19	0.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,36)	1:169:A:ASP:H	1:171:A:ILE:HD12	9	0.98
(2,20)	1:154:A:ALA:H	1:135:A:LYS:O	5	0.97
(2,18)	1:152:A:VAL:H	1:137:A:LEU:O	3	0.97
(2,17)	1:140:A:ILE:H	1:126:A:ILE:O	7	0.97
(2,17)	1:140:A:ILE:H	1:126:A:ILE:O	12	0.97
(2,17)	1:140:A:ILE:H	1:126:A:ILE:O	13	0.97
(2,10)	1:94:A:LEU:H	1:97:A:ILE:O	3	0.97
(2,7)	1:91:A:ALA:H	1:75:A:GLY:O	11	0.97
(2,7)	1:91:A:ALA:H	1:75:A:GLY:O	19	0.97
(2,6)	1:90:A:GLN:H	1:101:A:LEU:O	12	0.97
(2,5)	1:89:A:VAL:H	1:77:A:VAL:O	13	0.97
(2,4)	1:79:A:LEU:H	1:87:A:LYS:O	11	0.97
(1,3533)	1:130:A:VAL:HG22	1:153:A:HIS:HD2	4	0.97
(1,3440)	1:103:A:GLU:HG2	1:108:A:TYR:HD1	20	0.97
(1,3240)	1:62:A:ALA:HB2	1:61:A:PHE:HD1	10	0.97
(1,3240)	1:62:A:ALA:HB2	1:61:A:PHE:HD1	13	0.97
(1,3233)	1:86:A:LEU:HD21	1:78:A:PHE:HE2	18	0.97
(1,3163)	1:97:A:ILE:HG23	1:97:A:ILE:HG13	8	0.97
(1,3163)	1:97:A:ILE:HG22	1:97:A:ILE:HG13	10	0.97
(1,3163)	1:97:A:ILE:HG21	1:97:A:ILE:HG13	14	0.97
(1,3163)	1:97:A:ILE:HG23	1:97:A:ILE:HG13	19	0.97
(1,3142)	1:89:A:VAL:HG13	1:87:A:LYS:HE3	17	0.97
(1,2952)	1:144:A:MET:HE2	1:144:A:MET:HG2	14	0.97
(1,2737)	1:134:A:GLU:HA	1:157:A:LYS:HG3	6	0.97
(1,2381)	1:35:A:GLU:HG2	1:32:A:ALA:HB1	5	0.97
(1,2245)	1:163:A:TRP:HB3	1:164:A:ILE:HD13	12	0.97
(1,2210)	1:42:A:GLU:HB3	1:43:A:ILE:HD11	6	0.97
(1,2195)	1:35:A:GLU:HB3	1:32:A:ALA:HB2	16	0.97
(1,2090)	1:128:A:ARG:HG2	1:140:A:ILE:HD13	3	0.97
(1,2090)	1:128:A:ARG:HG2	1:140:A:ILE:HD13	7	0.97
(1,2090)	1:128:A:ARG:HG2	1:140:A:ILE:HD13	10	0.97
(1,2090)	1:128:A:ARG:HG2	1:140:A:ILE:HD12	13	0.97
(1,1972)	1:66:A:LEU:HD12	1:101:A:LEU:HD12	3	0.97
(1,1972)	1:66:A:LEU:HD13	1:101:A:LEU:HD12	13	0.97
(1,1955)	1:66:A:LEU:HD12	1:99:A:VAL:HB	9	0.97
(1,1955)	1:66:A:LEU:HD12	1:99:A:VAL:HB	16	0.97
(1,1881)	1:66:A:LEU:HD23	1:110:A:PHE:HZ	3	0.97
(1,1881)	1:66:A:LEU:HD22	1:110:A:PHE:HZ	9	0.97
(1,1833)	1:118:A:THR:HG21	1:100:A:PHE:HB3	8	0.97
(1,1833)	1:118:A:THR:HG23	1:100:A:PHE:HB3	9	0.97
(1,1805)	1:127:A:VAL:HG22	1:137:A:LEU:HD22	1	0.97
(1,1801)	1:127:A:VAL:HG11	1:139:A:LEU:HD22	17	0.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1799)	1:127:A:VAL:HG13	1:137:A:LEU:HD21	3	0.97
(1,1766)	1:99:A:VAL:HG13	1:110:A:PHE:HE1	5	0.97
(1,1766)	1:99:A:VAL:HG12	1:110:A:PHE:HE1	17	0.97
(1,1544)	1:120:A:ILE:HD11	1:98:A:LEU:HD13	16	0.97
(1,1496)	1:162:A:SER:H	1:154:A:ALA:HB2	5	0.97
(1,1496)	1:162:A:SER:H	1:154:A:ALA:HB1	9	0.97
(1,1358)	1:69:A:LYS:H	1:69:A:LYS:HB2	13	0.97
(1,1341)	1:100:A:PHE:H	1:99:A:VAL:HG11	3	0.97
(1,1341)	1:100:A:PHE:H	1:99:A:VAL:HG12	9	0.97
(1,1245)	1:106:A:GLN:H	1:103:A:GLU:HG3	6	0.97
(1,1174)	1:68:A:ARG:H	1:68:A:ARG:HG2	20	0.97
(1,988)	1:158:A:GLU:H	1:158:A:GLU:HG3	8	0.97
(1,954)	1:139:A:LEU:H	1:137:A:LEU:HD23	5	0.97
(1,884)	1:129:A:GLU:H	1:128:A:ARG:HB2	6	0.97
(1,863)	1:59:A:GLN:H	1:59:A:GLN:HB2	6	0.97
(1,863)	1:59:A:GLN:H	1:59:A:GLN:HB2	13	0.97
(1,863)	1:59:A:GLN:H	1:59:A:GLN:HB2	15	0.97
(1,492)	1:95:A:THR:HG21	1:69:A:LYS:HB3	15	0.97
(1,463)	1:139:A:LEU:HD12	1:120:A:ILE:H	4	0.97
(1,463)	1:139:A:LEU:HD12	1:120:A:ILE:H	17	0.97
(1,454)	1:151:A:GLU:HB2	1:113:A:LEU:HD11	11	0.97
(1,454)	1:151:A:GLU:HB2	1:113:A:LEU:HD12	17	0.97
(1,453)	1:92:A:VAL:HG11	1:43:A:ILE:HG12	1	0.97
(1,442)	1:31:A:VAL:HG22	1:30:A:LYS:HD3	16	0.97
(1,442)	1:31:A:VAL:HG21	1:30:A:LYS:HD3	19	0.97
(1,414)	1:128:A:ARG:HA	1:164:A:ILE:HD13	8	0.97
(1,410)	1:29:A:SER:HA	1:30:A:LYS:HB3	20	0.97
(1,392)	1:35:A:GLU:HB3	1:31:A:VAL:HG22	10	0.97
(1,392)	1:35:A:GLU:HB3	1:31:A:VAL:HG23	12	0.97
(1,392)	1:35:A:GLU:HB3	1:31:A:VAL:HG23	17	0.97
(1,380)	1:171:A:ILE:HA	1:125:A:LEU:HD11	17	0.97
(1,375)	1:49:A:SER:HB3	1:63:A:LYS:HE3	4	0.97
(1,317)	1:14:A:ALA:HA	1:8:A:VAL:HG13	19	0.97
(1,279)	1:157:A:LYS:HG2	1:157:A:LYS:HE2	1	0.97
(1,254)	1:87:A:LYS:HB2	1:87:A:LYS:HD2	19	0.97
(1,229)	1:30:A:LYS:HB3	1:27:A:VAL:HG23	20	0.97
(1,163)	1:40:A:LEU:HD13	1:44:A:TYR:HB2	18	0.97
(1,99)	1:171:A:ILE:HD11	1:122:A:LEU:HB2	6	0.97
(1,97)	1:166:A:ILE:HD13	1:163:A:TRP:HA	13	0.97
(1,97)	1:166:A:ILE:HD12	1:163:A:TRP:HA	18	0.97
(1,47)	1:175:A:ASN:H	1:173:A:THR:HG21	13	0.97
(1,36)	1:169:A:ASP:H	1:171:A:ILE:HD11	5	0.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,36)	1:169:A:ASP:H	1:171:A:ILE:HD13	16	0.97
(2,20)	1:154:A:ALA:H	1:135:A:LYS:O	20	0.96
(2,17)	1:140:A:ILE:H	1:126:A:ILE:O	17	0.96
(2,14)	1:102:A:GLN:H	1:109:A:ILE:O	4	0.96
(2,7)	1:91:A:ALA:H	1:75:A:GLY:O	2	0.96
(2,7)	1:91:A:ALA:H	1:75:A:GLY:O	8	0.96
(1,3240)	1:62:A:ALA:HB1	1:61:A:PHE:HD1	2	0.96
(1,3233)	1:86:A:LEU:HD22	1:78:A:PHE:HE2	13	0.96
(1,3142)	1:89:A:VAL:HG13	1:87:A:LYS:HE3	8	0.96
(1,3142)	1:89:A:VAL:HG13	1:87:A:LYS:HE3	18	0.96
(1,3137)	1:107:A:LYS:HD3	1:46:A:LYS:HA	3	0.96
(1,2994)	1:11:A:GLU:HG2	1:11:A:GLU:HA	7	0.96
(1,2944)	1:53:A:MET:HE1	1:53:A:MET:HB2	12	0.96
(1,2944)	1:53:A:MET:HE1	1:53:A:MET:HB2	19	0.96
(1,2917)	1:141:A:SER:HB3	1:140:A:ILE:HG21	13	0.96
(1,2890)	1:47:A:THR:HG22	1:108:A:TYR:HB3	18	0.96
(1,2836)	1:141:A:SER:HB2	1:147:A:PRO:HB2	14	0.96
(1,2788)	1:158:A:GLU:HA	1:161:A:ASN:HB3	3	0.96
(1,2660)	1:130:A:VAL:HG21	1:138:A:PHE:HA	1	0.96
(1,2624)	1:107:A:LYS:HA	1:46:A:LYS:HG3	9	0.96
(1,2581)	1:53:A:MET:HA	1:119:A:VAL:HG11	10	0.96
(1,2581)	1:53:A:MET:HA	1:119:A:VAL:HG12	12	0.96
(1,2439)	1:28:A:ASP:HB2	1:25:A:GLY:HA3	1	0.96
(1,2315)	1:4:A:LYS:HB3	1:4:A:LYS:HD2	8	0.96
(1,2315)	1:4:A:LYS:HB3	1:4:A:LYS:HD2	9	0.96
(1,2245)	1:163:A:TRP:HB3	1:164:A:ILE:HD11	16	0.96
(1,2156)	1:107:A:LYS:HD3	1:48:A:ASP:HB2	5	0.96
(1,2156)	1:107:A:LYS:HD3	1:48:A:ASP:HB2	12	0.96
(1,2133)	1:68:A:ARG:HG2	1:67:A:LYS:HD2	17	0.96
(1,2123)	1:137:A:LEU:HD13	1:152:A:VAL:HB	17	0.96
(1,2068)	1:137:A:LEU:HD21	1:129:A:GLU:HA	8	0.96
(1,2038)	1:123:A:LYS:HG2	1:171:A:ILE:HG12	19	0.96
(1,1972)	1:66:A:LEU:HD13	1:101:A:LEU:HD12	12	0.96
(1,1972)	1:66:A:LEU:HD13	1:101:A:LEU:HD13	20	0.96
(1,1881)	1:66:A:LEU:HD23	1:110:A:PHE:HZ	6	0.96
(1,1881)	1:66:A:LEU:HD21	1:110:A:PHE:HZ	18	0.96
(1,1805)	1:127:A:VAL:HG21	1:137:A:LEU:HD22	15	0.96
(1,1766)	1:99:A:VAL:HG12	1:110:A:PHE:HE1	2	0.96
(1,1766)	1:99:A:VAL:HG11	1:110:A:PHE:HE1	10	0.96
(1,1753)	1:97:A:ILE:HD12	1:99:A:VAL:HG22	7	0.96
(1,1753)	1:97:A:ILE:HD11	1:99:A:VAL:HG22	12	0.96
(1,1739)	1:119:A:VAL:HG13	1:53:A:MET:HB2	8	0.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1563)	1:97:A:ILE:HD11	1:61:A:PHE:HD1	13	0.96
(1,1496)	1:162:A:SER:H	1:154:A:ALA:HB3	6	0.96
(1,1467)	1:10:A:GLN:H	1:10:A:GLN:HB2	9	0.96
(1,1341)	1:100:A:PHE:H	1:99:A:VAL:HG12	16	0.96
(1,988)	1:158:A:GLU:H	1:158:A:GLU:HG3	12	0.96
(1,954)	1:139:A:LEU:H	1:137:A:LEU:HD21	3	0.96
(1,954)	1:139:A:LEU:H	1:137:A:LEU:HD23	14	0.96
(1,863)	1:59:A:GLN:H	1:59:A:GLN:HB2	5	0.96
(1,863)	1:59:A:GLN:H	1:59:A:GLN:HB2	8	0.96
(1,819)	1:130:A:VAL:H	1:130:A:VAL:HG23	2	0.96
(1,819)	1:130:A:VAL:H	1:130:A:VAL:HG22	3	0.96
(1,819)	1:130:A:VAL:H	1:130:A:VAL:HG22	6	0.96
(1,819)	1:130:A:VAL:H	1:130:A:VAL:HG21	9	0.96
(1,819)	1:130:A:VAL:H	1:130:A:VAL:HG21	11	0.96
(1,464)	1:112:A:SER:HB3	1:118:A:THR:HG21	20	0.96
(1,463)	1:139:A:LEU:HD13	1:120:A:ILE:H	10	0.96
(1,460)	1:29:A:SER:HA	1:20:A:VAL:HG21	2	0.96
(1,442)	1:31:A:VAL:HG22	1:30:A:LYS:HD3	12	0.96
(1,414)	1:128:A:ARG:HA	1:164:A:ILE:HD13	7	0.96
(1,380)	1:171:A:ILE:HA	1:125:A:LEU:HD11	20	0.96
(1,347)	1:162:A:SER:HB3	1:166:A:ILE:HD13	11	0.96
(1,286)	1:39:A:ARG:HD2	1:71:A:LEU:HD21	16	0.96
(1,254)	1:87:A:LYS:HB2	1:87:A:LYS:HD2	2	0.96
(1,254)	1:87:A:LYS:HB2	1:87:A:LYS:HD2	7	0.96
(1,254)	1:87:A:LYS:HB2	1:87:A:LYS:HD2	9	0.96
(1,254)	1:87:A:LYS:HB2	1:87:A:LYS:HD2	12	0.96
(1,117)	1:101:A:LEU:HD23	1:43:A:ILE:HG22	7	0.96
(1,99)	1:171:A:ILE:HD11	1:122:A:LEU:HB2	2	0.96
(1,47)	1:175:A:ASN:H	1:173:A:THR:HG22	4	0.96
(1,36)	1:169:A:ASP:H	1:166:A:ILE:HD11	11	0.96
(1,36)	1:169:A:ASP:H	1:171:A:ILE:HD11	12	0.96
(1,9)	1:98:A:LEU:H	1:120:A:ILE:HG23	2	0.96
(2,19)	1:153:A:HIS:H	1:78:A:PHE:O	6	0.95
(2,18)	1:152:A:VAL:H	1:137:A:LEU:O	2	0.95
(2,18)	1:152:A:VAL:H	1:137:A:LEU:O	16	0.95
(2,17)	1:140:A:ILE:H	1:126:A:ILE:O	5	0.95
(2,17)	1:140:A:ILE:H	1:126:A:ILE:O	9	0.95
(2,17)	1:140:A:ILE:H	1:126:A:ILE:O	15	0.95
(2,16)	1:137:A:LEU:H	1:135:A:LYS:O	2	0.95
(2,14)	1:102:A:GLN:H	1:109:A:ILE:O	10	0.95
(2,12)	1:99:A:VAL:H	1:92:A:VAL:O	6	0.95
(2,7)	1:91:A:ALA:H	1:75:A:GLY:O	10	0.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,7)	1:91:A:ALA:H	1:75:A:GLY:O	12	0.95
(1,3399)	1:125:A:LEU:HD22	1:170:A:THR:HB	8	0.95
(1,3240)	1:62:A:ALA:HB2	1:61:A:PHE:HD1	15	0.95
(1,3240)	1:62:A:ALA:HB1	1:61:A:PHE:HD1	17	0.95
(1,3240)	1:62:A:ALA:HB1	1:61:A:PHE:HD1	18	0.95
(1,3214)	1:15:A:GLN:HB3	1:2:A:MET:HG2	6	0.95
(1,3163)	1:97:A:ILE:HG21	1:97:A:ILE:HG13	6	0.95
(1,3137)	1:107:A:LYS:HD3	1:46:A:LYS:HA	6	0.95
(1,3047)	1:54:A:ARG:HA	1:53:A:MET:HE1	16	0.95
(1,2994)	1:11:A:GLU:HG2	1:11:A:GLU:HA	19	0.95
(1,2984)	1:36:A:LYS:HE3	1:36:A:LYS:HB3	2	0.95
(1,2944)	1:53:A:MET:HE2	1:53:A:MET:HB2	3	0.95
(1,2920)	1:141:A:SER:HB2	1:56:A:LYS:HB3	9	0.95
(1,2899)	1:142:A:MET:HB3	1:126:A:ILE:HG12	3	0.95
(1,2660)	1:130:A:VAL:HG21	1:138:A:PHE:HA	3	0.95
(1,2581)	1:53:A:MET:HA	1:119:A:VAL:HG13	16	0.95
(1,2558)	1:91:A:ALA:HA	1:92:A:VAL:HG12	2	0.95
(1,2558)	1:91:A:ALA:HA	1:92:A:VAL:HG11	11	0.95
(1,2558)	1:91:A:ALA:HA	1:92:A:VAL:HG11	14	0.95
(1,2484)	1:36:A:LYS:HG3	1:36:A:LYS:HE3	12	0.95
(1,2484)	1:36:A:LYS:HG3	1:36:A:LYS:HE3	14	0.95
(1,2381)	1:35:A:GLU:HG2	1:32:A:ALA:HB1	8	0.95
(1,2364)	1:134:A:GLU:HG2	1:157:A:LYS:HB3	16	0.95
(1,2313)	1:168:A:GLN:HG2	1:164:A:ILE:HG23	11	0.95
(1,2245)	1:163:A:TRP:HB3	1:164:A:ILE:HD12	5	0.95
(1,2245)	1:163:A:TRP:HB3	1:164:A:ILE:HD12	13	0.95
(1,2210)	1:42:A:GLU:HB3	1:43:A:ILE:HD12	12	0.95
(1,2195)	1:35:A:GLU:HB3	1:32:A:ALA:HB3	9	0.95
(1,2090)	1:128:A:ARG:HG2	1:140:A:ILE:HD11	9	0.95
(1,2090)	1:128:A:ARG:HG2	1:140:A:ILE:HD11	12	0.95
(1,1972)	1:66:A:LEU:HD13	1:101:A:LEU:HD13	10	0.95
(1,1882)	1:66:A:LEU:HD21	1:61:A:PHE:HE1	7	0.95
(1,1801)	1:127:A:VAL:HG13	1:139:A:LEU:HD21	11	0.95
(1,1766)	1:99:A:VAL:HG13	1:110:A:PHE:HE1	4	0.95
(1,1766)	1:99:A:VAL:HG12	1:110:A:PHE:HE1	7	0.95
(1,1766)	1:99:A:VAL:HG11	1:110:A:PHE:HE1	9	0.95
(1,1766)	1:99:A:VAL:HG13	1:110:A:PHE:HE1	11	0.95
(1,1766)	1:99:A:VAL:HG13	1:110:A:PHE:HE1	12	0.95
(1,1766)	1:99:A:VAL:HG11	1:110:A:PHE:HE1	18	0.95
(1,1753)	1:97:A:ILE:HD12	1:99:A:VAL:HG22	3	0.95
(1,1753)	1:97:A:ILE:HD13	1:99:A:VAL:HG21	4	0.95
(1,1753)	1:97:A:ILE:HD13	1:99:A:VAL:HG22	5	0.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1680)	1:130:A:VAL:HG23	1:136:A:GLY:HA2	19	0.95
(1,1378)	1:41:A:ASN:HD22	1:45:A:THR:HG21	16	0.95
(1,1358)	1:69:A:LYS:H	1:69:A:LYS:HB2	1	0.95
(1,1341)	1:100:A:PHE:H	1:99:A:VAL:HG11	19	0.95
(1,1318)	1:4:A:LYS:H	1:6:A:ASN:HD22	8	0.95
(1,863)	1:59:A:GLN:H	1:59:A:GLN:HB2	4	0.95
(1,863)	1:59:A:GLN:H	1:59:A:GLN:HB2	18	0.95
(1,819)	1:130:A:VAL:H	1:130:A:VAL:HG23	15	0.95
(1,491)	1:76:A:SER:HB3	1:89:A:VAL:HG22	4	0.95
(1,491)	1:76:A:SER:HB3	1:89:A:VAL:HG23	18	0.95
(1,464)	1:112:A:SER:HB3	1:118:A:THR:HG23	6	0.95
(1,464)	1:112:A:SER:HB3	1:118:A:THR:HG21	9	0.95
(1,463)	1:139:A:LEU:HD11	1:120:A:ILE:H	18	0.95
(1,462)	1:94:A:LEU:HD22	1:93:A:LEU:H	2	0.95
(1,442)	1:31:A:VAL:HG22	1:30:A:LYS:HD3	6	0.95
(1,442)	1:31:A:VAL:HG23	1:30:A:LYS:HD3	9	0.95
(1,414)	1:128:A:ARG:HA	1:164:A:ILE:HD11	11	0.95
(1,392)	1:35:A:GLU:HB3	1:31:A:VAL:HG23	6	0.95
(1,392)	1:35:A:GLU:HB3	1:31:A:VAL:HG22	11	0.95
(1,392)	1:35:A:GLU:HB3	1:31:A:VAL:HG23	20	0.95
(1,380)	1:171:A:ILE:HA	1:125:A:LEU:HD13	5	0.95
(1,380)	1:171:A:ILE:HA	1:125:A:LEU:HD11	12	0.95
(1,286)	1:39:A:ARG:HD2	1:71:A:LEU:HD23	18	0.95
(1,276)	1:22:A:ASP:HB2	1:26:A:ALA:HB2	1	0.95
(1,254)	1:87:A:LYS:HB2	1:87:A:LYS:HD2	1	0.95
(1,254)	1:87:A:LYS:HB2	1:87:A:LYS:HD2	3	0.95
(1,254)	1:87:A:LYS:HB2	1:87:A:LYS:HD2	10	0.95
(1,254)	1:87:A:LYS:HB2	1:87:A:LYS:HD2	14	0.95
(1,87)	1:9:A:GLU:H	1:8:A:VAL:HG13	1	0.95
(1,36)	1:169:A:ASP:H	1:166:A:ILE:HD13	8	0.95
(1,36)	1:169:A:ASP:H	1:166:A:ILE:HD12	15	0.95
(1,36)	1:169:A:ASP:H	1:171:A:ILE:HD11	19	0.95
(1,9)	1:98:A:LEU:H	1:120:A:ILE:HG23	8	0.95
(2,18)	1:152:A:VAL:H	1:137:A:LEU:O	15	0.94
(2,17)	1:140:A:ILE:H	1:126:A:ILE:O	2	0.94
(2,17)	1:140:A:ILE:H	1:126:A:ILE:O	3	0.94
(2,14)	1:102:A:GLN:H	1:109:A:ILE:O	5	0.94
(2,14)	1:102:A:GLN:H	1:109:A:ILE:O	6	0.94
(2,14)	1:102:A:GLN:H	1:109:A:ILE:O	11	0.94
(2,14)	1:102:A:GLN:H	1:109:A:ILE:O	17	0.94
(2,14)	1:102:A:GLN:H	1:109:A:ILE:O	19	0.94
(2,7)	1:91:A:ALA:H	1:75:A:GLY:O	4	0.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,7)	1:91:A:ALA:H	1:75:A:GLY:O	18	0.94
(2,6)	1:90:A:GLN:H	1:101:A:LEU:O	13	0.94
(2,6)	1:90:A:GLN:H	1:101:A:LEU:O	15	0.94
(1,3533)	1:130:A:VAL:HG22	1:153:A:HIS:HD2	15	0.94
(1,3533)	1:130:A:VAL:HG23	1:153:A:HIS:HD2	17	0.94
(1,3468)	1:138:A:PHE:HD1	1:151:A:GLU:HG3	14	0.94
(1,3440)	1:103:A:GLU:HG2	1:108:A:TYR:HD1	17	0.94
(1,3440)	1:103:A:GLU:HG2	1:108:A:TYR:HD1	18	0.94
(1,3387)	1:94:A:LEU:HD13	1:97:A:ILE:HD12	16	0.94
(1,3254)	1:99:A:VAL:HG12	1:119:A:VAL:HA	1	0.94
(1,3240)	1:62:A:ALA:HB3	1:61:A:PHE:HD1	19	0.94
(1,3047)	1:54:A:ARG:HA	1:53:A:MET:HE2	1	0.94
(1,2984)	1:36:A:LYS:HE3	1:36:A:LYS:HB3	5	0.94
(1,2984)	1:36:A:LYS:HE3	1:36:A:LYS:HB3	7	0.94
(1,2984)	1:36:A:LYS:HE3	1:36:A:LYS:HB3	10	0.94
(1,2969)	1:176:A:ARG:HA	1:176:A:ARG:HG2	13	0.94
(1,2917)	1:141:A:SER:HB3	1:140:A:ILE:HG22	17	0.94
(1,2899)	1:142:A:MET:HB3	1:126:A:ILE:HG12	4	0.94
(1,2836)	1:141:A:SER:HB2	1:147:A:PRO:HB2	16	0.94
(1,2833)	1:63:A:LYS:HD2	1:49:A:SER:HB2	11	0.94
(1,2732)	1:184:A:SER:HA	1:59:A:GLN:HB2	11	0.94
(1,2732)	1:184:A:SER:HA	1:59:A:GLN:HB2	17	0.94
(1,2645)	1:142:A:MET:HA	1:147:A:PRO:HG2	7	0.94
(1,2581)	1:53:A:MET:HA	1:119:A:VAL:HG12	7	0.94
(1,2558)	1:91:A:ALA:HA	1:92:A:VAL:HG13	6	0.94
(1,2484)	1:36:A:LYS:HG3	1:36:A:LYS:HE3	11	0.94
(1,2484)	1:36:A:LYS:HG3	1:36:A:LYS:HE3	13	0.94
(1,2210)	1:42:A:GLU:HB3	1:43:A:ILE:HD12	16	0.94
(1,2156)	1:107:A:LYS:HD3	1:48:A:ASP:HB2	9	0.94
(1,2149)	1:168:A:GLN:HB3	1:165:A:GLN:HA	5	0.94
(1,2038)	1:123:A:LYS:HG2	1:171:A:ILE:HG12	13	0.94
(1,2028)	1:124:A:LYS:HG2	1:123:A:LYS:HD3	3	0.94
(1,1981)	1:71:A:LEU:HD23	1:40:A:LEU:HB3	20	0.94
(1,1881)	1:66:A:LEU:HD22	1:110:A:PHE:HZ	17	0.94
(1,1805)	1:127:A:VAL:HG22	1:137:A:LEU:HD22	8	0.94
(1,1801)	1:127:A:VAL:HG13	1:139:A:LEU:HD22	1	0.94
(1,1801)	1:127:A:VAL:HG11	1:139:A:LEU:HD23	2	0.94
(1,1794)	1:113:A:LEU:HD22	1:79:A:LEU:HB2	7	0.94
(1,1766)	1:99:A:VAL:HG13	1:110:A:PHE:HE1	3	0.94
(1,1766)	1:99:A:VAL:HG11	1:110:A:PHE:HE1	20	0.94
(1,1753)	1:97:A:ILE:HD12	1:99:A:VAL:HG23	10	0.94
(1,1563)	1:97:A:ILE:HD13	1:61:A:PHE:HD1	16	0.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1546)	1:120:A:ILE:HD13	1:98:A:LEU:HB2	11	0.94
(1,1508)	1:69:A:LYS:H	1:68:A:ARG:HG2	7	0.94
(1,1496)	1:162:A:SER:H	1:154:A:ALA:HB1	8	0.94
(1,1348)	1:51:A:SER:H	1:51:A:SER:HB3	3	0.94
(1,1348)	1:51:A:SER:H	1:51:A:SER:HB3	11	0.94
(1,1348)	1:51:A:SER:H	1:51:A:SER:HB3	13	0.94
(1,1341)	1:100:A:PHE:H	1:99:A:VAL:HG12	20	0.94
(1,1245)	1:106:A:GLN:H	1:103:A:GLU:HG3	8	0.94
(1,863)	1:59:A:GLN:H	1:59:A:GLN:HB2	1	0.94
(1,863)	1:59:A:GLN:H	1:59:A:GLN:HB2	2	0.94
(1,863)	1:59:A:GLN:H	1:59:A:GLN:HB2	7	0.94
(1,863)	1:59:A:GLN:H	1:59:A:GLN:HB2	10	0.94
(1,829)	1:182:A:ILE:H	1:181:A:GLY:HA3	6	0.94
(1,819)	1:130:A:VAL:H	1:130:A:VAL:HG22	5	0.94
(1,819)	1:130:A:VAL:H	1:130:A:VAL:HG21	8	0.94
(1,819)	1:130:A:VAL:H	1:130:A:VAL:HG22	20	0.94
(1,491)	1:76:A:SER:HB3	1:89:A:VAL:HG22	1	0.94
(1,464)	1:112:A:SER:HB3	1:118:A:THR:HG22	8	0.94
(1,463)	1:139:A:LEU:HD11	1:120:A:ILE:H	3	0.94
(1,443)	1:21:A:LYS:HE3	1:20:A:VAL:HG22	17	0.94
(1,442)	1:31:A:VAL:HG21	1:30:A:LYS:HD3	4	0.94
(1,442)	1:31:A:VAL:HG22	1:30:A:LYS:HD3	14	0.94
(1,442)	1:31:A:VAL:HG23	1:30:A:LYS:HD3	15	0.94
(1,442)	1:31:A:VAL:HG21	1:30:A:LYS:HD3	18	0.94
(1,392)	1:35:A:GLU:HB3	1:31:A:VAL:HG21	3	0.94
(1,392)	1:35:A:GLU:HB3	1:31:A:VAL:HG22	4	0.94
(1,392)	1:35:A:GLU:HB3	1:31:A:VAL:HG21	15	0.94
(1,392)	1:35:A:GLU:HB3	1:31:A:VAL:HG23	16	0.94
(1,317)	1:14:A:ALA:HA	1:8:A:VAL:HG12	16	0.94
(1,286)	1:39:A:ARG:HD2	1:71:A:LEU:HD22	3	0.94
(1,276)	1:22:A:ASP:HB2	1:21:A:LYS:HG2	19	0.94
(1,254)	1:87:A:LYS:HB2	1:87:A:LYS:HD2	5	0.94
(1,254)	1:87:A:LYS:HB2	1:87:A:LYS:HD2	6	0.94
(1,254)	1:87:A:LYS:HB2	1:87:A:LYS:HD2	13	0.94
(1,254)	1:87:A:LYS:HB2	1:87:A:LYS:HD2	16	0.94
(1,219)	1:42:A:GLU:HB3	1:39:A:ARG:HB2	1	0.94
(1,104)	1:167:A:ILE:HG23	1:171:A:ILE:H	8	0.94
(1,97)	1:166:A:ILE:HD11	1:163:A:TRP:HA	3	0.94
(1,60)	1:44:A:TYR:H	1:43:A:ILE:HD11	5	0.94
(1,60)	1:44:A:TYR:H	1:43:A:ILE:HD11	6	0.94
(1,60)	1:44:A:TYR:H	1:43:A:ILE:HD11	9	0.94
(1,60)	1:44:A:TYR:H	1:43:A:ILE:HD12	12	0.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,58)	1:13:A:LEU:H	1:19:A:LEU:HD13	3	0.94
(2,20)	1:154:A:ALA:H	1:135:A:LYS:O	1	0.93
(2,20)	1:154:A:ALA:H	1:135:A:LYS:O	4	0.93
(2,20)	1:154:A:ALA:H	1:135:A:LYS:O	11	0.93
(2,18)	1:152:A:VAL:H	1:137:A:LEU:O	1	0.93
(2,18)	1:152:A:VAL:H	1:137:A:LEU:O	4	0.93
(2,18)	1:152:A:VAL:H	1:137:A:LEU:O	9	0.93
(2,14)	1:102:A:GLN:H	1:109:A:ILE:O	3	0.93
(2,14)	1:102:A:GLN:H	1:109:A:ILE:O	8	0.93
(2,12)	1:99:A:VAL:H	1:92:A:VAL:O	1	0.93
(2,6)	1:90:A:GLN:H	1:101:A:LEU:O	20	0.93
(1,3533)	1:130:A:VAL:HG22	1:153:A:HIS:HD2	2	0.93
(1,3533)	1:130:A:VAL:HG23	1:153:A:HIS:HD2	13	0.93
(1,3440)	1:103:A:GLU:HG2	1:108:A:TYR:HD1	6	0.93
(1,3387)	1:94:A:LEU:HD11	1:97:A:ILE:HD12	12	0.93
(1,3240)	1:62:A:ALA:HB3	1:61:A:PHE:HD1	14	0.93
(1,3211)	1:26:A:ALA:HB3	1:29:A:SER:HB3	20	0.93
(1,3142)	1:89:A:VAL:HG12	1:87:A:LYS:HE3	4	0.93
(1,3137)	1:107:A:LYS:HD3	1:46:A:LYS:HA	12	0.93
(1,3090)	1:58:A:GLY:HA3	1:54:A:ARG:HG3	14	0.93
(1,3047)	1:54:A:ARG:HA	1:53:A:MET:HE1	6	0.93
(1,3047)	1:54:A:ARG:HA	1:53:A:MET:HE3	11	0.93
(1,2994)	1:11:A:GLU:HG2	1:11:A:GLU:HA	15	0.93
(1,2899)	1:142:A:MET:HB3	1:126:A:ILE:HG12	1	0.93
(1,2899)	1:142:A:MET:HB3	1:126:A:ILE:HG12	7	0.93
(1,2899)	1:142:A:MET:HB3	1:126:A:ILE:HG12	13	0.93
(1,2898)	1:149:A:MET:HB3	1:138:A:PHE:HD1	17	0.93
(1,2739)	1:123:A:LYS:HD3	1:123:A:LYS:HA	18	0.93
(1,2732)	1:184:A:SER:HA	1:59:A:GLN:HB2	9	0.93
(1,2660)	1:130:A:VAL:HG21	1:138:A:PHE:HA	5	0.93
(1,2660)	1:130:A:VAL:HG22	1:138:A:PHE:HA	6	0.93
(1,2626)	1:153:A:HIS:HA	1:130:A:VAL:HG21	12	0.93
(1,2624)	1:107:A:LYS:HA	1:46:A:LYS:HG3	1	0.93
(1,2581)	1:53:A:MET:HA	1:119:A:VAL:HG12	19	0.93
(1,2510)	1:73:A:ARG:HD3	1:73:A:ARG:HA	4	0.93
(1,2510)	1:73:A:ARG:HD3	1:73:A:ARG:HA	14	0.93
(1,2508)	1:73:A:ARG:HD2	1:166:A:ILE:HG12	16	0.93
(1,2484)	1:36:A:LYS:HG3	1:36:A:LYS:HE3	18	0.93
(1,2480)	1:69:A:LYS:HE3	1:97:A:ILE:HG13	18	0.93
(1,2392)	1:159:A:GLU:HG3	1:77:A:VAL:HG12	19	0.93
(1,2381)	1:35:A:GLU:HG2	1:32:A:ALA:HB3	1	0.93
(1,2381)	1:35:A:GLU:HG2	1:32:A:ALA:HB1	16	0.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2245)	1:163:A:TRP:HB3	1:164:A:ILE:HD12	2	0.93
(1,2245)	1:163:A:TRP:HB3	1:164:A:ILE:HD11	10	0.93
(1,2210)	1:42:A:GLU:HB3	1:43:A:ILE:HD11	18	0.93
(1,2196)	1:35:A:GLU:HB2	1:38:A:VAL:HG21	17	0.93
(1,2171)	1:46:A:LYS:HD3	1:46:A:LYS:HB3	1	0.93
(1,2171)	1:46:A:LYS:HD3	1:46:A:LYS:HB3	2	0.93
(1,2171)	1:46:A:LYS:HD3	1:46:A:LYS:HB3	3	0.93
(1,2171)	1:46:A:LYS:HD3	1:46:A:LYS:HB3	4	0.93
(1,2171)	1:46:A:LYS:HD3	1:46:A:LYS:HB3	5	0.93
(1,2171)	1:46:A:LYS:HD3	1:46:A:LYS:HB3	8	0.93
(1,2171)	1:46:A:LYS:HD3	1:46:A:LYS:HB3	9	0.93
(1,2171)	1:46:A:LYS:HD3	1:46:A:LYS:HB3	10	0.93
(1,2171)	1:46:A:LYS:HD3	1:46:A:LYS:HB3	11	0.93
(1,2171)	1:46:A:LYS:HD3	1:46:A:LYS:HB3	12	0.93
(1,2171)	1:46:A:LYS:HD3	1:46:A:LYS:HB3	13	0.93
(1,2171)	1:46:A:LYS:HD3	1:46:A:LYS:HB3	15	0.93
(1,2171)	1:46:A:LYS:HD3	1:46:A:LYS:HB3	17	0.93
(1,2171)	1:46:A:LYS:HD3	1:46:A:LYS:HB3	18	0.93
(1,2171)	1:46:A:LYS:HD3	1:46:A:LYS:HB3	20	0.93
(1,2156)	1:107:A:LYS:HD3	1:48:A:ASP:HB2	7	0.93
(1,2156)	1:107:A:LYS:HD3	1:48:A:ASP:HB2	14	0.93
(1,2090)	1:128:A:ARG:HG2	1:140:A:ILE:HD13	20	0.93
(1,2014)	1:93:A:LEU:HD13	1:98:A:LEU:HD22	11	0.93
(1,1955)	1:66:A:LEU:HD12	1:99:A:VAL:HB	14	0.93
(1,1833)	1:118:A:THR:HG22	1:100:A:PHE:HB3	5	0.93
(1,1805)	1:127:A:VAL:HG23	1:137:A:LEU:HD21	4	0.93
(1,1753)	1:97:A:ILE:HD11	1:99:A:VAL:HG22	15	0.93
(1,1753)	1:97:A:ILE:HD13	1:99:A:VAL:HG22	17	0.93
(1,1599)	1:149:A:MET:HE1	1:149:A:MET:HB2	12	0.93
(1,1598)	1:149:A:MET:HE2	1:126:A:ILE:HD12	6	0.93
(1,1544)	1:120:A:ILE:HD11	1:98:A:LEU:HD12	6	0.93
(1,1467)	1:10:A:GLN:H	1:10:A:GLN:HB2	1	0.93
(1,1245)	1:106:A:GLN:H	1:103:A:GLU:HG3	12	0.93
(1,863)	1:59:A:GLN:H	1:59:A:GLN:HB2	9	0.93
(1,863)	1:59:A:GLN:H	1:59:A:GLN:HB2	11	0.93
(1,863)	1:59:A:GLN:H	1:59:A:GLN:HB2	17	0.93
(1,829)	1:182:A:ILE:H	1:181:A:GLY:HA3	13	0.93
(1,829)	1:182:A:ILE:H	1:181:A:GLY:HA3	20	0.93
(1,819)	1:130:A:VAL:H	1:130:A:VAL:HG22	1	0.93
(1,819)	1:130:A:VAL:H	1:130:A:VAL:HG23	4	0.93
(1,819)	1:130:A:VAL:H	1:130:A:VAL:HG21	7	0.93
(1,819)	1:130:A:VAL:H	1:130:A:VAL:HG23	10	0.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,819)	1:130:A:VAL:H	1:130:A:VAL:HG22	12	0.93
(1,819)	1:130:A:VAL:H	1:130:A:VAL:HG21	13	0.93
(1,819)	1:130:A:VAL:H	1:130:A:VAL:HG23	14	0.93
(1,819)	1:130:A:VAL:H	1:130:A:VAL:HG21	19	0.93
(1,491)	1:76:A:SER:HB3	1:89:A:VAL:HG21	3	0.93
(1,491)	1:76:A:SER:HB3	1:89:A:VAL:HG23	12	0.93
(1,463)	1:139:A:LEU:HD13	1:120:A:ILE:H	7	0.93
(1,463)	1:139:A:LEU:HD11	1:120:A:ILE:H	16	0.93
(1,460)	1:29:A:SER:HA	1:20:A:VAL:HG21	3	0.93
(1,454)	1:151:A:GLU:HB2	1:113:A:LEU:HD13	9	0.93
(1,453)	1:92:A:VAL:HG12	1:43:A:ILE:HG12	12	0.93
(1,442)	1:31:A:VAL:HG21	1:30:A:LYS:HD3	1	0.93
(1,442)	1:31:A:VAL:HG21	1:30:A:LYS:HD3	2	0.93
(1,416)	1:18:A:SER:HA	1:24:A:ILE:HD12	3	0.93
(1,410)	1:29:A:SER:HA	1:30:A:LYS:HB3	6	0.93
(1,392)	1:35:A:GLU:HB3	1:31:A:VAL:HG22	1	0.93
(1,392)	1:35:A:GLU:HB3	1:31:A:VAL:HG22	8	0.93
(1,392)	1:35:A:GLU:HB3	1:31:A:VAL:HG21	9	0.93
(1,392)	1:35:A:GLU:HB3	1:31:A:VAL:HG22	19	0.93
(1,348)	1:162:A:SER:HB2	1:161:A:ASN:HB3	4	0.93
(1,305)	1:26:A:ALA:HB2	1:25:A:GLY:HA3	7	0.93
(1,296)	1:19:A:LEU:HB2	1:11:A:GLU:HA	5	0.93
(1,286)	1:39:A:ARG:HD2	1:71:A:LEU:HD21	5	0.93
(1,254)	1:87:A:LYS:HB2	1:87:A:LYS:HD2	11	0.93
(1,254)	1:87:A:LYS:HB2	1:87:A:LYS:HD2	20	0.93
(1,219)	1:42:A:GLU:HB3	1:39:A:ARG:HB2	19	0.93
(1,60)	1:44:A:TYR:H	1:43:A:ILE:HD13	18	0.93
(1,36)	1:169:A:ASP:H	1:166:A:ILE:HD12	2	0.93
(2,19)	1:153:A:HIS:H	1:78:A:PHE:O	1	0.92
(2,18)	1:152:A:VAL:H	1:137:A:LEU:O	6	0.92
(2,14)	1:102:A:GLN:H	1:109:A:ILE:O	1	0.92
(2,14)	1:102:A:GLN:H	1:109:A:ILE:O	2	0.92
(2,14)	1:102:A:GLN:H	1:109:A:ILE:O	9	0.92
(2,14)	1:102:A:GLN:H	1:109:A:ILE:O	18	0.92
(2,7)	1:91:A:ALA:H	1:75:A:GLY:O	1	0.92
(1,3254)	1:99:A:VAL:HG11	1:119:A:VAL:HA	15	0.92
(1,3240)	1:62:A:ALA:HB2	1:61:A:PHE:HD1	6	0.92
(1,3233)	1:86:A:LEU:HD23	1:78:A:PHE:HE2	11	0.92
(1,3047)	1:54:A:ARG:HA	1:53:A:MET:HE2	3	0.92
(1,3047)	1:54:A:ARG:HA	1:53:A:MET:HE2	7	0.92
(1,2969)	1:176:A:ARG:HA	1:176:A:ARG:HG2	1	0.92
(1,2944)	1:53:A:MET:HE2	1:53:A:MET:HB2	7	0.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2898)	1:149:A:MET:HB3	1:138:A:PHE:HD1	7	0.92
(1,2890)	1:47:A:THR:HG22	1:108:A:TYR:HB3	15	0.92
(1,2890)	1:47:A:THR:HG21	1:108:A:TYR:HB3	20	0.92
(1,2822)	1:121:A:SER:HB2	1:185:A:GLU:HA	20	0.92
(1,2737)	1:134:A:GLU:HA	1:157:A:LYS:HG3	4	0.92
(1,2732)	1:184:A:SER:HA	1:59:A:GLN:HB2	12	0.92
(1,2558)	1:91:A:ALA:HA	1:92:A:VAL:HG13	3	0.92
(1,2558)	1:91:A:ALA:HA	1:92:A:VAL:HG13	18	0.92
(1,2484)	1:36:A:LYS:HG3	1:36:A:LYS:HE3	5	0.92
(1,2484)	1:36:A:LYS:HG3	1:36:A:LYS:HE3	8	0.92
(1,2484)	1:36:A:LYS:HG3	1:36:A:LYS:HE3	19	0.92
(1,2439)	1:28:A:ASP:HB2	1:25:A:GLY:HA3	10	0.92
(1,2171)	1:46:A:LYS:HD3	1:46:A:LYS:HB3	6	0.92
(1,2171)	1:46:A:LYS:HD3	1:46:A:LYS:HB3	7	0.92
(1,2171)	1:46:A:LYS:HD3	1:46:A:LYS:HB3	14	0.92
(1,2171)	1:46:A:LYS:HD3	1:46:A:LYS:HB3	16	0.92
(1,2133)	1:68:A:ARG:HG2	1:67:A:LYS:HD2	1	0.92
(1,2123)	1:137:A:LEU:HD13	1:152:A:VAL:HB	20	0.92
(1,2090)	1:128:A:ARG:HG2	1:140:A:ILE:HD12	15	0.92
(1,2024)	1:94:A:LEU:HD21	1:61:A:PHE:HE1	10	0.92
(1,2024)	1:94:A:LEU:HD22	1:61:A:PHE:HE1	20	0.92
(1,1972)	1:66:A:LEU:HD12	1:101:A:LEU:HD11	16	0.92
(1,1881)	1:66:A:LEU:HD22	1:110:A:PHE:HZ	10	0.92
(1,1881)	1:66:A:LEU:HD23	1:110:A:PHE:HZ	16	0.92
(1,1833)	1:118:A:THR:HG21	1:100:A:PHE:HB3	13	0.92
(1,1801)	1:127:A:VAL:HG11	1:139:A:LEU:HD21	5	0.92
(1,1799)	1:127:A:VAL:HG12	1:137:A:LEU:HD22	19	0.92
(1,1748)	1:72:A:VAL:HG21	1:95:A:THR:HA	20	0.92
(1,1680)	1:130:A:VAL:HG22	1:136:A:GLY:HA2	15	0.92
(1,1508)	1:69:A:LYS:H	1:68:A:ARG:HG2	4	0.92
(1,988)	1:158:A:GLU:H	1:158:A:GLU:HG3	18	0.92
(1,954)	1:139:A:LEU:H	1:137:A:LEU:HD21	10	0.92
(1,863)	1:59:A:GLN:H	1:59:A:GLN:HB2	12	0.92
(1,863)	1:59:A:GLN:H	1:59:A:GLN:HB2	20	0.92
(1,819)	1:130:A:VAL:H	1:130:A:VAL:HG22	16	0.92
(1,460)	1:29:A:SER:HA	1:20:A:VAL:HG23	6	0.92
(1,460)	1:29:A:SER:HA	1:20:A:VAL:HG23	11	0.92
(1,392)	1:35:A:GLU:HB3	1:31:A:VAL:HG23	5	0.92
(1,392)	1:35:A:GLU:HB3	1:31:A:VAL:HG22	18	0.92
(1,286)	1:39:A:ARG:HD2	1:71:A:LEU:HD21	8	0.92
(1,219)	1:42:A:GLU:HB3	1:39:A:ARG:HB2	2	0.92
(1,219)	1:42:A:GLU:HB3	1:39:A:ARG:HB2	3	0.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,160)	1:71:A:LEU:HD11	1:74:A:ASP:HA	16	0.92
(1,115)	1:86:A:LEU:HD23	1:87:A:LYS:HD2	3	0.92
(1,60)	1:44:A:TYR:H	1:43:A:ILE:HD12	4	0.92
(1,60)	1:44:A:TYR:H	1:43:A:ILE:HD11	14	0.92
(1,60)	1:44:A:TYR:H	1:43:A:ILE:HD12	20	0.92
(1,9)	1:98:A:LEU:H	1:120:A:ILE:HD11	20	0.92
(2,18)	1:152:A:VAL:H	1:137:A:LEU:O	14	0.91
(2,17)	1:140:A:ILE:H	1:126:A:ILE:O	18	0.91
(2,10)	1:94:A:LEU:H	1:97:A:ILE:O	19	0.91
(2,7)	1:91:A:ALA:H	1:75:A:GLY:O	5	0.91
(2,7)	1:91:A:ALA:H	1:75:A:GLY:O	7	0.91
(2,6)	1:90:A:GLN:H	1:101:A:LEU:O	3	0.91
(1,3440)	1:103:A:GLU:HG2	1:108:A:TYR:HD1	3	0.91
(1,3290)	1:39:A:ARG:HD3	1:38:A:VAL:HG12	10	0.91
(1,3254)	1:99:A:VAL:HG11	1:119:A:VAL:HA	2	0.91
(1,3254)	1:99:A:VAL:HG12	1:119:A:VAL:HA	19	0.91
(1,3240)	1:62:A:ALA:HB2	1:61:A:PHE:HD1	5	0.91
(1,3240)	1:62:A:ALA:HB1	1:61:A:PHE:HD1	11	0.91
(1,3142)	1:89:A:VAL:HG13	1:87:A:LYS:HE3	15	0.91
(1,3047)	1:54:A:ARG:HA	1:53:A:MET:HE1	12	0.91
(1,3047)	1:54:A:ARG:HA	1:53:A:MET:HE3	20	0.91
(1,2984)	1:36:A:LYS:HE3	1:36:A:LYS:HB3	18	0.91
(1,2962)	1:66:A:LEU:HG	1:65:A:ASP:HB3	1	0.91
(1,2899)	1:142:A:MET:HB3	1:126:A:ILE:HG12	14	0.91
(1,2899)	1:142:A:MET:HB3	1:126:A:ILE:HG12	15	0.91
(1,2899)	1:142:A:MET:HB3	1:126:A:ILE:HG12	17	0.91
(1,2899)	1:142:A:MET:HB3	1:126:A:ILE:HG12	20	0.91
(1,2890)	1:47:A:THR:HG22	1:108:A:TYR:HB3	2	0.91
(1,2660)	1:130:A:VAL:HG23	1:138:A:PHE:HA	14	0.91
(1,2645)	1:142:A:MET:HA	1:147:A:PRO:HG2	10	0.91
(1,2581)	1:53:A:MET:HA	1:119:A:VAL:HG13	6	0.91
(1,2558)	1:91:A:ALA:HA	1:92:A:VAL:HG13	9	0.91
(1,2558)	1:91:A:ALA:HA	1:92:A:VAL:HG12	13	0.91
(1,2558)	1:91:A:ALA:HA	1:92:A:VAL:HG12	19	0.91
(1,2558)	1:91:A:ALA:HA	1:92:A:VAL:HG13	20	0.91
(1,2510)	1:73:A:ARG:HD3	1:73:A:ARG:HA	6	0.91
(1,2381)	1:35:A:GLU:HG2	1:32:A:ALA:HB2	9	0.91
(1,2352)	1:130:A:VAL:HG12	1:133:A:GLU:HG2	20	0.91
(1,2245)	1:163:A:TRP:HB3	1:164:A:ILE:HD12	8	0.91
(1,2210)	1:42:A:GLU:HB3	1:43:A:ILE:HD13	11	0.91
(1,2123)	1:137:A:LEU:HD12	1:152:A:VAL:HB	6	0.91
(1,2123)	1:137:A:LEU:HD12	1:152:A:VAL:HB	7	0.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2024)	1:94:A:LEU:HD23	1:61:A:PHE:HE1	3	0.91
(1,2014)	1:93:A:LEU:HD12	1:98:A:LEU:HD22	20	0.91
(1,1972)	1:66:A:LEU:HD12	1:101:A:LEU:HD13	9	0.91
(1,1972)	1:66:A:LEU:HD13	1:101:A:LEU:HD12	17	0.91
(1,1955)	1:66:A:LEU:HD13	1:99:A:VAL:HB	17	0.91
(1,1881)	1:66:A:LEU:HD21	1:110:A:PHE:HZ	19	0.91
(1,1794)	1:113:A:LEU:HD21	1:79:A:LEU:HB2	18	0.91
(1,1778)	1:89:A:VAL:HG13	1:100:A:PHE:HD1	1	0.91
(1,1778)	1:89:A:VAL:HG11	1:100:A:PHE:HD1	5	0.91
(1,1753)	1:97:A:ILE:HD13	1:99:A:VAL:HG22	19	0.91
(1,1616)	1:171:A:ILE:HG22	1:124:A:LYS:HG3	10	0.91
(1,1563)	1:97:A:ILE:HD12	1:61:A:PHE:HD1	17	0.91
(1,1544)	1:120:A:ILE:HD11	1:98:A:LEU:HD12	17	0.91
(1,1467)	1:10:A:GLN:H	1:10:A:GLN:HB2	6	0.91
(1,1358)	1:69:A:LYS:H	1:69:A:LYS:HB2	19	0.91
(1,1341)	1:100:A:PHE:H	1:99:A:VAL:HG11	1	0.91
(1,1341)	1:100:A:PHE:H	1:99:A:VAL:HG13	2	0.91
(1,1341)	1:100:A:PHE:H	1:99:A:VAL:HG13	17	0.91
(1,863)	1:59:A:GLN:H	1:59:A:GLN:HB2	16	0.91
(1,829)	1:182:A:ILE:H	1:181:A:GLY:HA3	4	0.91
(1,829)	1:182:A:ILE:H	1:181:A:GLY:HA3	11	0.91
(1,463)	1:139:A:LEU:HD12	1:120:A:ILE:H	15	0.91
(1,462)	1:94:A:LEU:HD21	1:93:A:LEU:H	4	0.91
(1,460)	1:29:A:SER:HA	1:20:A:VAL:HG22	14	0.91
(1,454)	1:151:A:GLU:HB2	1:113:A:LEU:HD13	6	0.91
(1,442)	1:31:A:VAL:HG21	1:30:A:LYS:HD3	8	0.91
(1,442)	1:31:A:VAL:HG23	1:30:A:LYS:HD3	13	0.91
(1,410)	1:29:A:SER:HA	1:30:A:LYS:HB3	14	0.91
(1,380)	1:171:A:ILE:HA	1:125:A:LEU:HD13	19	0.91
(1,305)	1:26:A:ALA:HB3	1:25:A:GLY:HA3	1	0.91
(1,305)	1:26:A:ALA:HB3	1:25:A:GLY:HA3	13	0.91
(1,286)	1:39:A:ARG:HD2	1:71:A:LEU:HD22	11	0.91
(1,286)	1:39:A:ARG:HD2	1:71:A:LEU:HD22	12	0.91
(1,137)	1:67:A:LYS:HG2	1:68:A:ARG:HB2	20	0.91
(1,97)	1:166:A:ILE:HD12	1:163:A:TRP:HA	8	0.91
(1,60)	1:44:A:TYR:H	1:43:A:ILE:HD13	2	0.91
(1,60)	1:44:A:TYR:H	1:43:A:ILE:HD13	10	0.91
(2,19)	1:153:A:HIS:H	1:78:A:PHE:O	20	0.9
(2,17)	1:140:A:ILE:H	1:126:A:ILE:O	14	0.9
(2,14)	1:102:A:GLN:H	1:109:A:ILE:O	12	0.9
(2,10)	1:94:A:LEU:H	1:97:A:ILE:O	10	0.9
(2,10)	1:94:A:LEU:H	1:97:A:ILE:O	15	0.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3)	1:78:A:PHE:H	1:153:A:HIS:O	3	0.9
(2,3)	1:78:A:PHE:H	1:153:A:HIS:O	15	0.9
(1,3440)	1:103:A:GLU:HG2	1:108:A:TYR:HD1	4	0.9
(1,3361)	1:157:A:LYS:HA	1:160:A:ARG:HB2	8	0.9
(1,3290)	1:39:A:ARG:HD3	1:38:A:VAL:HG13	17	0.9
(1,3240)	1:62:A:ALA:HB3	1:61:A:PHE:HD1	3	0.9
(1,3240)	1:62:A:ALA:HB1	1:61:A:PHE:HD1	12	0.9
(1,3240)	1:62:A:ALA:HB3	1:61:A:PHE:HD1	20	0.9
(1,3233)	1:86:A:LEU:HD21	1:78:A:PHE:HE2	7	0.9
(1,3137)	1:107:A:LYS:HD3	1:46:A:LYS:HA	7	0.9
(1,3047)	1:54:A:ARG:HA	1:53:A:MET:HE1	19	0.9
(1,2969)	1:176:A:ARG:HA	1:176:A:ARG:HG2	4	0.9
(1,2899)	1:142:A:MET:HB3	1:126:A:ILE:HG12	2	0.9
(1,2899)	1:142:A:MET:HB3	1:126:A:ILE:HG12	12	0.9
(1,2833)	1:63:A:LYS:HD2	1:49:A:SER:HB2	1	0.9
(1,2833)	1:63:A:LYS:HD2	1:49:A:SER:HB2	8	0.9
(1,2732)	1:184:A:SER:HA	1:59:A:GLN:HB2	13	0.9
(1,2732)	1:184:A:SER:HA	1:59:A:GLN:HB2	14	0.9
(1,2510)	1:73:A:ARG:HD3	1:73:A:ARG:HA	19	0.9
(1,2508)	1:73:A:ARG:HD2	1:166:A:ILE:HG12	5	0.9
(1,2315)	1:4:A:LYS:HB3	1:4:A:LYS:HD2	20	0.9
(1,2245)	1:163:A:TRP:HB3	1:164:A:ILE:HD13	17	0.9
(1,2205)	1:165:A:GLN:HB2	1:166:A:ILE:HG12	3	0.9
(1,2205)	1:165:A:GLN:HB2	1:166:A:ILE:HG12	9	0.9
(1,2205)	1:165:A:GLN:HB2	1:166:A:ILE:HG12	20	0.9
(1,2156)	1:107:A:LYS:HD3	1:48:A:ASP:HB2	18	0.9
(1,2090)	1:128:A:ARG:HG2	1:140:A:ILE:HD12	6	0.9
(1,2090)	1:128:A:ARG:HG2	1:140:A:ILE:HD11	17	0.9
(1,2046)	1:79:A:LEU:HD11	1:100:A:PHE:HA	19	0.9
(1,2019)	1:170:A:THR:HG21	1:93:A:LEU:HD12	4	0.9
(1,2014)	1:93:A:LEU:HD13	1:98:A:LEU:HD22	8	0.9
(1,2014)	1:93:A:LEU:HD11	1:98:A:LEU:HD22	18	0.9
(1,1972)	1:66:A:LEU:HD11	1:101:A:LEU:HD12	8	0.9
(1,1972)	1:66:A:LEU:HD13	1:101:A:LEU:HD11	11	0.9
(1,1955)	1:66:A:LEU:HD12	1:99:A:VAL:HB	15	0.9
(1,1882)	1:66:A:LEU:HD21	1:61:A:PHE:HE1	1	0.9
(1,1881)	1:66:A:LEU:HD22	1:110:A:PHE:HZ	2	0.9
(1,1867)	1:19:A:LEU:HD22	1:19:A:LEU:HA	17	0.9
(1,1805)	1:127:A:VAL:HG23	1:137:A:LEU:HD22	18	0.9
(1,1753)	1:97:A:ILE:HD11	1:99:A:VAL:HG22	6	0.9
(1,1599)	1:149:A:MET:HE3	1:149:A:MET:HB2	3	0.9
(1,1563)	1:97:A:ILE:HD12	1:61:A:PHE:HD1	4	0.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1378)	1:41:A:ASN:HD22	1:45:A:THR:HG22	20	0.9
(1,1348)	1:51:A:SER:H	1:51:A:SER:HB3	4	0.9
(1,1341)	1:100:A:PHE:H	1:99:A:VAL:HG11	13	0.9
(1,1318)	1:4:A:LYS:H	1:6:A:ASN:HD22	11	0.9
(1,1245)	1:106:A:GLN:H	1:103:A:GLU:HG3	10	0.9
(1,954)	1:139:A:LEU:H	1:137:A:LEU:HD22	11	0.9
(1,819)	1:130:A:VAL:H	1:130:A:VAL:HG21	18	0.9
(1,464)	1:112:A:SER:HB3	1:118:A:THR:HG21	15	0.9
(1,462)	1:94:A:LEU:HD23	1:93:A:LEU:H	11	0.9
(1,462)	1:94:A:LEU:HD23	1:93:A:LEU:H	20	0.9
(1,454)	1:151:A:GLU:HB2	1:113:A:LEU:HD11	8	0.9
(1,454)	1:151:A:GLU:HB2	1:113:A:LEU:HD11	16	0.9
(1,392)	1:35:A:GLU:HB3	1:31:A:VAL:HG22	2	0.9
(1,392)	1:35:A:GLU:HB3	1:31:A:VAL:HG22	7	0.9
(1,348)	1:162:A:SER:HB2	1:161:A:ASN:HB3	9	0.9
(1,305)	1:26:A:ALA:HB1	1:25:A:GLY:HA3	8	0.9
(1,305)	1:26:A:ALA:HB3	1:25:A:GLY:HA3	9	0.9
(1,305)	1:26:A:ALA:HB1	1:25:A:GLY:HA3	14	0.9
(1,305)	1:26:A:ALA:HB2	1:25:A:GLY:HA3	16	0.9
(1,97)	1:166:A:ILE:HD12	1:163:A:TRP:HA	1	0.9
(1,60)	1:44:A:TYR:H	1:43:A:ILE:HD12	1	0.9
(1,60)	1:44:A:TYR:H	1:43:A:ILE:HD12	8	0.9
(1,60)	1:44:A:TYR:H	1:43:A:ILE:HD12	11	0.9
(1,60)	1:44:A:TYR:H	1:43:A:ILE:HD11	15	0.9
(1,60)	1:44:A:TYR:H	1:43:A:ILE:HD12	17	0.9
(1,56)	1:106:A:GLN:H	1:106:A:GLN:HB2	19	0.9
(1,39)	1:170:A:THR:H	1:174:A:LEU:HD11	4	0.9
(1,3533)	1:130:A:VAL:HG22	1:153:A:HIS:HD2	10	0.89
(1,3440)	1:103:A:GLU:HG2	1:108:A:TYR:HD1	2	0.89
(1,3440)	1:103:A:GLU:HG2	1:108:A:TYR:HD1	19	0.89
(1,3399)	1:125:A:LEU:HD21	1:170:A:THR:HB	4	0.89
(1,3240)	1:62:A:ALA:HB1	1:61:A:PHE:HD1	7	0.89
(1,3233)	1:86:A:LEU:HD22	1:78:A:PHE:HE2	4	0.89
(1,3135)	1:56:A:LYS:HB2	1:56:A:LYS:HE2	6	0.89
(1,3121)	1:46:A:LYS:HE3	1:47:A:THR:HG23	4	0.89
(1,3047)	1:54:A:ARG:HA	1:53:A:MET:HE1	10	0.89
(1,3047)	1:54:A:ARG:HA	1:53:A:MET:HE3	14	0.89
(1,3047)	1:54:A:ARG:HA	1:53:A:MET:HE3	15	0.89
(1,2946)	1:53:A:MET:HE2	1:52:A:ILE:HD12	7	0.89
(1,2946)	1:53:A:MET:HE2	1:52:A:ILE:HD13	18	0.89
(1,2899)	1:142:A:MET:HB3	1:126:A:ILE:HG12	5	0.89
(1,2898)	1:149:A:MET:HB3	1:138:A:PHE:HD1	5	0.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2890)	1:47:A:THR:HG22	1:108:A:TYR:HB3	9	0.89
(1,2833)	1:63:A:LYS:HD2	1:49:A:SER:HB2	14	0.89
(1,2833)	1:63:A:LYS:HD2	1:49:A:SER:HB2	15	0.89
(1,2660)	1:130:A:VAL:HG21	1:138:A:PHE:HA	11	0.89
(1,2629)	1:137:A:LEU:HA	1:130:A:VAL:HG23	19	0.89
(1,2530)	1:125:A:LEU:HB3	1:167:A:ILE:HG21	17	0.89
(1,2511)	1:157:A:LYS:HE3	1:134:A:GLU:HA	3	0.89
(1,2484)	1:36:A:LYS:HG3	1:36:A:LYS:HE3	4	0.89
(1,2484)	1:36:A:LYS:HG3	1:36:A:LYS:HE3	20	0.89
(1,2469)	1:22:A:ASP:HB2	1:24:A:ILE:HG12	19	0.89
(1,2352)	1:130:A:VAL:HG12	1:133:A:GLU:HG2	12	0.89
(1,2352)	1:130:A:VAL:HG12	1:133:A:GLU:HG2	18	0.89
(1,2245)	1:163:A:TRP:HB3	1:164:A:ILE:HD11	1	0.89
(1,2195)	1:35:A:GLU:HB3	1:32:A:ALA:HB2	8	0.89
(1,2123)	1:137:A:LEU:HD12	1:152:A:VAL:HB	16	0.89
(1,2090)	1:128:A:ARG:HG2	1:140:A:ILE:HD12	2	0.89
(1,2090)	1:128:A:ARG:HG2	1:140:A:ILE:HD13	8	0.89
(1,2038)	1:123:A:LYS:HG2	1:171:A:ILE:HG12	11	0.89
(1,2024)	1:94:A:LEU:HD23	1:61:A:PHE:HE1	5	0.89
(1,1988)	1:174:A:LEU:HD13	1:95:A:THR:HG23	12	0.89
(1,1981)	1:71:A:LEU:HD22	1:40:A:LEU:HB3	17	0.89
(1,1955)	1:66:A:LEU:HD12	1:99:A:VAL:HB	4	0.89
(1,1955)	1:66:A:LEU:HD12	1:99:A:VAL:HB	18	0.89
(1,1801)	1:127:A:VAL:HG13	1:139:A:LEU:HD21	12	0.89
(1,1794)	1:113:A:LEU:HD21	1:79:A:LEU:HB2	10	0.89
(1,1753)	1:97:A:ILE:HD13	1:99:A:VAL:HG21	9	0.89
(1,1680)	1:130:A:VAL:HG21	1:136:A:GLY:HA2	1	0.89
(1,1570)	1:171:A:ILE:HD11	1:122:A:LEU:HB3	4	0.89
(1,1546)	1:120:A:ILE:HD13	1:98:A:LEU:HB2	18	0.89
(1,1544)	1:120:A:ILE:HD11	1:98:A:LEU:HD13	13	0.89
(1,1530)	1:167:A:ILE:HD12	1:168:A:GLN:HB3	8	0.89
(1,1470)	1:37:A:LYS:H	1:38:A:VAL:HG11	13	0.89
(1,1341)	1:100:A:PHE:H	1:99:A:VAL:HG11	14	0.89
(1,1341)	1:100:A:PHE:H	1:99:A:VAL:HG12	18	0.89
(1,1245)	1:106:A:GLN:H	1:103:A:GLU:HG3	11	0.89
(1,489)	1:70:A:LYS:HB3	1:36:A:LYS:HE2	6	0.89
(1,472)	1:135:A:LYS:HE3	1:135:A:LYS:HB3	6	0.89
(1,463)	1:139:A:LEU:HD11	1:120:A:ILE:H	1	0.89
(1,463)	1:139:A:LEU:HD11	1:120:A:ILE:H	5	0.89
(1,454)	1:151:A:GLU:HB2	1:113:A:LEU:HD11	4	0.89
(1,454)	1:151:A:GLU:HB2	1:113:A:LEU:HD11	13	0.89
(1,397)	1:109:A:ILE:HA	1:110:A:PHE:HE2	8	0.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,392)	1:35:A:GLU:HB3	1:31:A:VAL:HG23	14	0.89
(1,337)	1:184:A:SER:HA	1:55:A:MET:HB3	16	0.89
(1,317)	1:14:A:ALA:HA	1:8:A:VAL:HG21	2	0.89
(1,315)	1:82:A:ALA:HA	1:116:A:LYS:HG3	19	0.89
(1,305)	1:26:A:ALA:HB2	1:25:A:GLY:HA3	2	0.89
(1,305)	1:26:A:ALA:HB3	1:25:A:GLY:HA3	18	0.89
(1,286)	1:39:A:ARG:HD2	1:71:A:LEU:HD23	10	0.89
(1,286)	1:39:A:ARG:HD2	1:71:A:LEU:HD23	20	0.89
(1,276)	1:22:A:ASP:HB2	1:26:A:ALA:HB2	18	0.89
(1,269)	1:5:A:ASP:HB2	1:8:A:VAL:HG21	8	0.89
(1,163)	1:40:A:LEU:HD12	1:44:A:TYR:HB2	6	0.89
(1,163)	1:40:A:LEU:HD11	1:44:A:TYR:HB2	13	0.89
(1,115)	1:86:A:LEU:HD22	1:87:A:LYS:HD2	2	0.89
(1,115)	1:86:A:LEU:HD23	1:87:A:LYS:HD2	6	0.89
(1,97)	1:166:A:ILE:HD11	1:163:A:TRP:HA	15	0.89
(1,60)	1:44:A:TYR:H	1:43:A:ILE:HD12	13	0.89
(1,56)	1:106:A:GLN:H	1:106:A:GLN:HB2	11	0.89
(1,56)	1:106:A:GLN:H	1:106:A:GLN:HB2	15	0.89
(1,47)	1:175:A:ASN:H	1:173:A:THR:HG22	7	0.89
(1,36)	1:169:A:ASP:H	1:166:A:ILE:HD13	1	0.89
(1,36)	1:169:A:ASP:H	1:166:A:ILE:HD11	17	0.89
(1,9)	1:98:A:LEU:H	1:120:A:ILE:HG21	10	0.89
(1,9)	1:98:A:LEU:H	1:120:A:ILE:HG23	18	0.89
(2,20)	1:154:A:ALA:H	1:135:A:LYS:O	6	0.88
(2,19)	1:153:A:HIS:H	1:78:A:PHE:O	10	0.88
(2,18)	1:152:A:VAL:H	1:137:A:LEU:O	12	0.88
(1,3440)	1:103:A:GLU:HG2	1:108:A:TYR:HD1	1	0.88
(1,3387)	1:94:A:LEU:HD11	1:97:A:ILE:HD13	3	0.88
(1,3387)	1:94:A:LEU:HD11	1:97:A:ILE:HD13	10	0.88
(1,3326)	1:50:A:LYS:HD2	1:50:A:LYS:HB2	1	0.88
(1,3290)	1:39:A:ARG:HD3	1:38:A:VAL:HG12	9	0.88
(1,3241)	1:113:A:LEU:HD13	1:113:A:LEU:H	19	0.88
(1,3214)	1:15:A:GLN:HB3	1:2:A:MET:HG2	7	0.88
(1,3163)	1:97:A:ILE:HG22	1:97:A:ILE:HG13	18	0.88
(1,3137)	1:107:A:LYS:HD3	1:46:A:LYS:HA	8	0.88
(1,2946)	1:53:A:MET:HE3	1:52:A:ILE:HD11	11	0.88
(1,2530)	1:125:A:LEU:HB3	1:167:A:ILE:HG21	5	0.88
(1,2530)	1:125:A:LEU:HB3	1:167:A:ILE:HG21	12	0.88
(1,2510)	1:73:A:ARG:HD3	1:73:A:ARG:HA	9	0.88
(1,2484)	1:36:A:LYS:HG3	1:36:A:LYS:HE3	1	0.88
(1,2484)	1:36:A:LYS:HG3	1:36:A:LYS:HE3	2	0.88
(1,2210)	1:42:A:GLU:HB3	1:43:A:ILE:HD13	8	0.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2123)	1:137:A:LEU:HD13	1:152:A:VAL:HB	2	0.88
(1,2123)	1:137:A:LEU:HD13	1:152:A:VAL:HB	4	0.88
(1,2038)	1:123:A:LYS:HG2	1:171:A:ILE:HG12	9	0.88
(1,2038)	1:123:A:LYS:HG2	1:171:A:ILE:HG12	14	0.88
(1,2028)	1:124:A:LYS:HG2	1:123:A:LYS:HD3	20	0.88
(1,2014)	1:93:A:LEU:HD13	1:98:A:LEU:HD22	10	0.88
(1,2014)	1:93:A:LEU:HD12	1:98:A:LEU:HD22	15	0.88
(1,1988)	1:174:A:LEU:HD13	1:95:A:THR:HG23	20	0.88
(1,1881)	1:66:A:LEU:HD22	1:110:A:PHE:HZ	8	0.88
(1,1881)	1:66:A:LEU:HD22	1:110:A:PHE:HZ	14	0.88
(1,1799)	1:127:A:VAL:HG12	1:137:A:LEU:HD23	9	0.88
(1,1794)	1:113:A:LEU:HD22	1:79:A:LEU:HB2	3	0.88
(1,1762)	1:99:A:VAL:HG11	1:66:A:LEU:HD11	8	0.88
(1,1680)	1:130:A:VAL:HG23	1:136:A:GLY:HA2	11	0.88
(1,1563)	1:97:A:ILE:HD13	1:61:A:PHE:HD1	20	0.88
(1,1544)	1:120:A:ILE:HD11	1:98:A:LEU:HD12	7	0.88
(1,1496)	1:162:A:SER:H	1:154:A:ALA:HB2	17	0.88
(1,1467)	1:10:A:GLN:H	1:10:A:GLN:HB2	16	0.88
(1,1341)	1:100:A:PHE:H	1:99:A:VAL:HG12	8	0.88
(1,1341)	1:100:A:PHE:H	1:99:A:VAL:HG11	11	0.88
(1,1245)	1:106:A:GLN:H	1:103:A:GLU:HG3	3	0.88
(1,829)	1:182:A:ILE:H	1:181:A:GLY:HA3	7	0.88
(1,829)	1:182:A:ILE:H	1:181:A:GLY:HA3	17	0.88
(1,463)	1:139:A:LEU:HD13	1:120:A:ILE:H	19	0.88
(1,462)	1:94:A:LEU:HD21	1:93:A:LEU:H	5	0.88
(1,462)	1:94:A:LEU:HD22	1:93:A:LEU:H	14	0.88
(1,460)	1:29:A:SER:HA	1:20:A:VAL:HG23	12	0.88
(1,454)	1:151:A:GLU:HB2	1:113:A:LEU:HD12	19	0.88
(1,442)	1:31:A:VAL:HG22	1:30:A:LYS:HD3	5	0.88
(1,442)	1:31:A:VAL:HG21	1:30:A:LYS:HD3	11	0.88
(1,410)	1:29:A:SER:HA	1:30:A:LYS:HB3	4	0.88
(1,410)	1:29:A:SER:HA	1:30:A:LYS:HB3	12	0.88
(1,371)	1:19:A:LEU:HB2	1:18:A:SER:HB2	12	0.88
(1,318)	1:125:A:LEU:HA	1:126:A:ILE:HG22	10	0.88
(1,305)	1:26:A:ALA:HB2	1:25:A:GLY:HA3	4	0.88
(1,305)	1:26:A:ALA:HB3	1:25:A:GLY:HA3	6	0.88
(1,291)	1:54:A:ARG:HD2	1:54:A:ARG:HB2	20	0.88
(1,219)	1:42:A:GLU:HB3	1:39:A:ARG:HB2	13	0.88
(1,210)	1:70:A:LYS:HD2	1:8:A:VAL:HG11	2	0.88
(1,115)	1:86:A:LEU:HD22	1:87:A:LYS:HD2	9	0.88
(1,115)	1:86:A:LEU:HD21	1:87:A:LYS:HD2	16	0.88
(1,104)	1:167:A:ILE:HG21	1:171:A:ILE:H	19	0.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,97)	1:166:A:ILE:HD13	1:163:A:TRP:HA	10	0.88
(1,60)	1:44:A:TYR:H	1:43:A:ILE:HD11	3	0.88
(1,56)	1:106:A:GLN:H	1:106:A:GLN:HB2	9	0.88
(1,56)	1:106:A:GLN:H	1:106:A:GLN:HB2	14	0.88
(1,36)	1:169:A:ASP:H	1:166:A:ILE:HD11	13	0.88
(1,36)	1:169:A:ASP:H	1:166:A:ILE:HD13	18	0.88
(1,16)	1:174:A:LEU:H	1:173:A:THR:HG23	12	0.88
(1,16)	1:174:A:LEU:H	1:173:A:THR:HG21	17	0.88
(2,27)	1:171:A:ILE:H	1:167:A:ILE:O	15	0.87
(2,16)	1:137:A:LEU:H	1:135:A:LYS:O	4	0.87
(2,14)	1:102:A:GLN:H	1:109:A:ILE:O	7	0.87
(2,14)	1:102:A:GLN:H	1:109:A:ILE:O	15	0.87
(1,3533)	1:130:A:VAL:HG22	1:153:A:HIS:HD2	14	0.87
(1,3533)	1:130:A:VAL:HG23	1:153:A:HIS:HD2	19	0.87
(1,3387)	1:94:A:LEU:HD13	1:97:A:ILE:HD12	2	0.87
(1,3387)	1:94:A:LEU:HD11	1:97:A:ILE:HD11	15	0.87
(1,3326)	1:50:A:LYS:HD2	1:50:A:LYS:HB2	8	0.87
(1,3326)	1:50:A:LYS:HD2	1:50:A:LYS:HB2	13	0.87
(1,3254)	1:99:A:VAL:HG13	1:119:A:VAL:HA	18	0.87
(1,3241)	1:113:A:LEU:HD13	1:113:A:LEU:H	5	0.87
(1,3241)	1:113:A:LEU:HD13	1:113:A:LEU:H	20	0.87
(1,3233)	1:86:A:LEU:HD22	1:78:A:PHE:HE2	5	0.87
(1,3224)	1:79:A:LEU:H	1:79:A:LEU:HD21	2	0.87
(1,3224)	1:79:A:LEU:H	1:79:A:LEU:HD21	9	0.87
(1,3176)	1:159:A:GLU:HG3	1:155:A:SER:HB2	18	0.87
(1,3121)	1:46:A:LYS:HE3	1:47:A:THR:HG22	1	0.87
(1,3121)	1:46:A:LYS:HE3	1:47:A:THR:HG22	9	0.87
(1,3121)	1:46:A:LYS:HE3	1:47:A:THR:HG21	10	0.87
(1,3121)	1:46:A:LYS:HE3	1:47:A:THR:HG21	12	0.87
(1,3121)	1:46:A:LYS:HE3	1:47:A:THR:HG22	15	0.87
(1,3121)	1:46:A:LYS:HE3	1:47:A:THR:HG22	18	0.87
(1,3107)	1:36:A:LYS:HG3	1:36:A:LYS:HE2	19	0.87
(1,2984)	1:36:A:LYS:HE3	1:36:A:LYS:HB3	13	0.87
(1,2890)	1:47:A:THR:HG23	1:108:A:TYR:HB3	11	0.87
(1,2830)	1:97:A:ILE:HG22	1:119:A:VAL:HA	19	0.87
(1,2732)	1:184:A:SER:HA	1:59:A:GLN:HB2	1	0.87
(1,2707)	1:46:A:LYS:HG2	1:46:A:LYS:HA	8	0.87
(1,2707)	1:46:A:LYS:HG2	1:46:A:LYS:HA	15	0.87
(1,2530)	1:125:A:LEU:HB3	1:167:A:ILE:HG21	7	0.87
(1,2530)	1:125:A:LEU:HB3	1:167:A:ILE:HG22	19	0.87
(1,2530)	1:125:A:LEU:HB3	1:167:A:ILE:HG22	20	0.87
(1,2510)	1:73:A:ARG:HD3	1:73:A:ARG:HA	7	0.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2510)	1:73:A:ARG:HD3	1:73:A:ARG:HA	12	0.87
(1,2510)	1:73:A:ARG:HD3	1:73:A:ARG:HA	16	0.87
(1,2469)	1:22:A:ASP:HB2	1:24:A:ILE:HG12	18	0.87
(1,2251)	1:11:A:GLU:HB2	1:19:A:LEU:HD12	11	0.87
(1,2205)	1:165:A:GLN:HB2	1:166:A:ILE:HG12	10	0.87
(1,2187)	1:93:A:LEU:HD22	1:125:A:LEU:HD22	1	0.87
(1,2187)	1:93:A:LEU:HD22	1:125:A:LEU:HD21	9	0.87
(1,2156)	1:107:A:LYS:HD3	1:48:A:ASP:HB2	15	0.87
(1,2123)	1:137:A:LEU:HD11	1:152:A:VAL:HB	9	0.87
(1,2123)	1:137:A:LEU:HD12	1:152:A:VAL:HB	10	0.87
(1,1955)	1:66:A:LEU:HD11	1:99:A:VAL:HB	2	0.87
(1,1955)	1:66:A:LEU:HD13	1:99:A:VAL:HB	11	0.87
(1,1882)	1:66:A:LEU:HD22	1:61:A:PHE:HE1	12	0.87
(1,1833)	1:118:A:THR:HG21	1:100:A:PHE:HB3	19	0.87
(1,1794)	1:113:A:LEU:HD23	1:79:A:LEU:HB2	14	0.87
(1,1753)	1:97:A:ILE:HD11	1:99:A:VAL:HG22	2	0.87
(1,1599)	1:149:A:MET:HE3	1:149:A:MET:HB2	2	0.87
(1,1563)	1:97:A:ILE:HD11	1:61:A:PHE:HD1	7	0.87
(1,1341)	1:100:A:PHE:H	1:99:A:VAL:HG12	10	0.87
(1,1245)	1:106:A:GLN:H	1:103:A:GLU:HG3	15	0.87
(1,1245)	1:106:A:GLN:H	1:103:A:GLU:HG3	16	0.87
(1,1117)	1:65:A:ASP:H	1:64:A:GLU:HB2	14	0.87
(1,627)	1:98:A:LEU:H	1:97:A:ILE:HG12	15	0.87
(1,472)	1:135:A:LYS:HE2	1:135:A:LYS:HB3	13	0.87
(1,460)	1:29:A:SER:HA	1:20:A:VAL:HG21	15	0.87
(1,454)	1:151:A:GLU:HB2	1:113:A:LEU:HD12	20	0.87
(1,410)	1:29:A:SER:HA	1:30:A:LYS:HB3	17	0.87
(1,388)	1:128:A:ARG:HB3	1:126:A:ILE:HD13	5	0.87
(1,305)	1:26:A:ALA:HB2	1:25:A:GLY:HA3	17	0.87
(1,137)	1:67:A:LYS:HG2	1:68:A:ARG:HB2	7	0.87
(1,97)	1:166:A:ILE:HD12	1:163:A:TRP:HA	6	0.87
(1,60)	1:44:A:TYR:H	1:43:A:ILE:HD11	16	0.87
(1,56)	1:106:A:GLN:H	1:106:A:GLN:HB2	3	0.87
(1,56)	1:106:A:GLN:H	1:106:A:GLN:HB2	6	0.87
(1,56)	1:106:A:GLN:H	1:106:A:GLN:HB2	12	0.87
(1,9)	1:98:A:LEU:H	1:120:A:ILE:HG21	1	0.87
(1,3440)	1:103:A:GLU:HG2	1:108:A:TYR:HD1	10	0.86
(1,3326)	1:50:A:LYS:HD2	1:50:A:LYS:HB2	7	0.86
(1,3241)	1:113:A:LEU:HD13	1:113:A:LEU:H	2	0.86
(1,3224)	1:79:A:LEU:H	1:79:A:LEU:HD22	14	0.86
(1,3121)	1:46:A:LYS:HE3	1:47:A:THR:HG21	5	0.86
(1,3121)	1:46:A:LYS:HE3	1:47:A:THR:HG21	8	0.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2969)	1:176:A:ARG:HA	1:176:A:ARG:HG2	10	0.86
(1,2962)	1:66:A:LEU:HG	1:65:A:ASP:HB3	5	0.86
(1,2946)	1:53:A:MET:HE2	1:52:A:ILE:HD13	1	0.86
(1,2946)	1:53:A:MET:HE1	1:52:A:ILE:HD12	10	0.86
(1,2946)	1:53:A:MET:HE3	1:52:A:ILE:HD13	14	0.86
(1,2946)	1:53:A:MET:HE3	1:52:A:ILE:HD12	15	0.86
(1,2946)	1:53:A:MET:HE1	1:52:A:ILE:HD13	19	0.86
(1,2899)	1:142:A:MET:HB3	1:126:A:ILE:HG12	10	0.86
(1,2788)	1:158:A:GLU:HA	1:161:A:ASN:HB3	20	0.86
(1,2707)	1:46:A:LYS:HG2	1:46:A:LYS:HA	4	0.86
(1,2707)	1:46:A:LYS:HG2	1:46:A:LYS:HA	18	0.86
(1,2660)	1:130:A:VAL:HG21	1:138:A:PHE:HA	9	0.86
(1,2660)	1:130:A:VAL:HG22	1:138:A:PHE:HA	16	0.86
(1,2624)	1:107:A:LYS:HA	1:46:A:LYS:HG3	19	0.86
(1,2530)	1:125:A:LEU:HB3	1:167:A:ILE:HG22	1	0.86
(1,2510)	1:73:A:ARG:HD3	1:73:A:ARG:HA	3	0.86
(1,2510)	1:73:A:ARG:HD3	1:73:A:ARG:HA	10	0.86
(1,2484)	1:36:A:LYS:HG3	1:36:A:LYS:HE3	7	0.86
(1,2469)	1:22:A:ASP:HB2	1:24:A:ILE:HG12	6	0.86
(1,2375)	1:178:A:GLU:HG2	1:178:A:GLU:HA	4	0.86
(1,2245)	1:163:A:TRP:HB3	1:164:A:ILE:HD13	11	0.86
(1,2205)	1:165:A:GLN:HB2	1:166:A:ILE:HG12	4	0.86
(1,2205)	1:165:A:GLN:HB2	1:166:A:ILE:HG12	8	0.86
(1,2205)	1:165:A:GLN:HB2	1:166:A:ILE:HG12	12	0.86
(1,2171)	1:46:A:LYS:HD3	1:46:A:LYS:HB3	19	0.86
(1,2156)	1:107:A:LYS:HD3	1:48:A:ASP:HB2	10	0.86
(1,2123)	1:137:A:LEU:HD13	1:152:A:VAL:HB	13	0.86
(1,2123)	1:137:A:LEU:HD12	1:152:A:VAL:HB	14	0.86
(1,1851)	1:170:A:THR:HG22	1:95:A:THR:HB	18	0.86
(1,1833)	1:118:A:THR:HG23	1:100:A:PHE:HB3	10	0.86
(1,1832)	1:118:A:THR:HG21	1:113:A:LEU:HB3	7	0.86
(1,1794)	1:113:A:LEU:HD21	1:79:A:LEU:HB2	13	0.86
(1,1760)	1:99:A:VAL:HG13	1:101:A:LEU:HD13	15	0.86
(1,1760)	1:99:A:VAL:HG12	1:101:A:LEU:HD13	20	0.86
(1,1563)	1:97:A:ILE:HD11	1:61:A:PHE:HD1	3	0.86
(1,1546)	1:120:A:ILE:HD11	1:98:A:LEU:HB2	14	0.86
(1,1544)	1:120:A:ILE:HD11	1:98:A:LEU:HD12	9	0.86
(1,1530)	1:167:A:ILE:HD13	1:168:A:GLN:HB3	13	0.86
(1,1530)	1:167:A:ILE:HD12	1:168:A:GLN:HB3	14	0.86
(1,1378)	1:41:A:ASN:HD22	1:45:A:THR:HG21	4	0.86
(1,1245)	1:106:A:GLN:H	1:103:A:GLU:HG3	20	0.86
(1,829)	1:182:A:ILE:H	1:181:A:GLY:HA3	1	0.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,829)	1:182:A:ILE:H	1:181:A:GLY:HA3	9	0.86
(1,627)	1:98:A:LEU:H	1:97:A:ILE:HG12	1	0.86
(1,497)	1:139:A:LEU:HA	1:128:A:ARG:HG3	1	0.86
(1,442)	1:31:A:VAL:HG22	1:30:A:LYS:HD3	17	0.86
(1,410)	1:29:A:SER:HA	1:30:A:LYS:HB3	19	0.86
(1,370)	1:16:A:SER:HB3	1:4:A:LYS:HG2	3	0.86
(1,317)	1:14:A:ALA:HA	1:8:A:VAL:HG12	15	0.86
(1,305)	1:26:A:ALA:HB2	1:25:A:GLY:HA3	5	0.86
(1,299)	1:85:A:ARG:HD2	1:84:A:GLY:HA2	16	0.86
(1,291)	1:54:A:ARG:HD2	1:54:A:ARG:HB2	2	0.86
(1,286)	1:39:A:ARG:HD2	1:71:A:LEU:HD22	17	0.86
(1,231)	1:147:A:PRO:HB3	1:126:A:ILE:HD12	1	0.86
(1,159)	1:71:A:LEU:HD12	1:94:A:LEU:HA	9	0.86
(1,115)	1:86:A:LEU:HD22	1:87:A:LYS:HD2	5	0.86
(1,115)	1:86:A:LEU:HD23	1:87:A:LYS:HD2	10	0.86
(1,115)	1:86:A:LEU:HD23	1:87:A:LYS:HD2	14	0.86
(1,104)	1:167:A:ILE:HG22	1:171:A:ILE:H	15	0.86
(1,60)	1:44:A:TYR:H	1:43:A:ILE:HD12	7	0.86
(1,58)	1:13:A:LEU:H	1:8:A:VAL:HG13	17	0.86
(1,9)	1:98:A:LEU:H	1:120:A:ILE:HG22	12	0.86
(1,5)	1:120:A:ILE:H	1:97:A:ILE:HG21	12	0.86
(2,18)	1:152:A:VAL:H	1:137:A:LEU:O	20	0.85
(2,16)	1:137:A:LEU:H	1:135:A:LYS:O	1	0.85
(1,3440)	1:103:A:GLU:HG2	1:108:A:TYR:HD1	16	0.85
(1,3361)	1:157:A:LYS:HA	1:160:A:ARG:HB2	12	0.85
(1,3340)	1:107:A:LYS:HG3	1:108:A:TYR:HB3	10	0.85
(1,3340)	1:107:A:LYS:HG3	1:108:A:TYR:HB3	20	0.85
(1,3254)	1:99:A:VAL:HG13	1:119:A:VAL:HA	10	0.85
(1,3240)	1:62:A:ALA:HB1	1:61:A:PHE:HD1	8	0.85
(1,3224)	1:79:A:LEU:H	1:79:A:LEU:HD22	7	0.85
(1,3224)	1:79:A:LEU:H	1:79:A:LEU:HD21	17	0.85
(1,3142)	1:89:A:VAL:HG12	1:87:A:LYS:HE3	1	0.85
(1,3137)	1:107:A:LYS:HD3	1:46:A:LYS:HA	18	0.85
(1,3121)	1:46:A:LYS:HE3	1:47:A:THR:HG22	7	0.85
(1,3121)	1:46:A:LYS:HE3	1:47:A:THR:HG22	13	0.85
(1,3121)	1:46:A:LYS:HE3	1:47:A:THR:HG21	20	0.85
(1,3107)	1:36:A:LYS:HG3	1:36:A:LYS:HE2	5	0.85
(1,3107)	1:36:A:LYS:HG3	1:36:A:LYS:HE2	12	0.85
(1,3090)	1:58:A:GLY:HA3	1:54:A:ARG:HG3	10	0.85
(1,2984)	1:36:A:LYS:HE3	1:36:A:LYS:HB3	12	0.85
(1,2946)	1:53:A:MET:HE2	1:52:A:ILE:HD13	3	0.85
(1,2946)	1:53:A:MET:HE1	1:52:A:ILE:HD11	12	0.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2946)	1:53:A:MET:HE3	1:52:A:ILE:HD11	20	0.85
(1,2899)	1:142:A:MET:HB3	1:126:A:ILE:HG12	11	0.85
(1,2739)	1:123:A:LYS:HD3	1:123:A:LYS:HA	19	0.85
(1,2707)	1:46:A:LYS:HG2	1:46:A:LYS:HA	11	0.85
(1,2707)	1:46:A:LYS:HG2	1:46:A:LYS:HA	13	0.85
(1,2530)	1:125:A:LEU:HB3	1:167:A:ILE:HG21	2	0.85
(1,2530)	1:125:A:LEU:HB3	1:167:A:ILE:HG21	11	0.85
(1,2530)	1:125:A:LEU:HB3	1:167:A:ILE:HG22	13	0.85
(1,2530)	1:125:A:LEU:HB3	1:167:A:ILE:HG21	14	0.85
(1,2530)	1:125:A:LEU:HB3	1:167:A:ILE:HG23	16	0.85
(1,2510)	1:73:A:ARG:HD3	1:73:A:ARG:HA	2	0.85
(1,2313)	1:168:A:GLN:HG2	1:164:A:ILE:HG22	7	0.85
(1,2205)	1:165:A:GLN:HB2	1:166:A:ILE:HG12	13	0.85
(1,2195)	1:35:A:GLU:HB3	1:32:A:ALA:HB3	10	0.85
(1,2149)	1:168:A:GLN:HB3	1:165:A:GLN:HA	7	0.85
(1,2123)	1:137:A:LEU:HD13	1:152:A:VAL:HB	1	0.85
(1,2123)	1:137:A:LEU:HD12	1:152:A:VAL:HB	5	0.85
(1,2123)	1:137:A:LEU:HD12	1:152:A:VAL:HB	12	0.85
(1,2046)	1:79:A:LEU:HD13	1:100:A:PHE:HA	4	0.85
(1,2046)	1:79:A:LEU:HD13	1:100:A:PHE:HA	15	0.85
(1,2046)	1:79:A:LEU:HD12	1:100:A:PHE:HA	17	0.85
(1,1988)	1:174:A:LEU:HD13	1:95:A:THR:HG21	11	0.85
(1,1955)	1:66:A:LEU:HD11	1:99:A:VAL:HB	5	0.85
(1,1955)	1:66:A:LEU:HD13	1:99:A:VAL:HB	6	0.85
(1,1955)	1:66:A:LEU:HD13	1:99:A:VAL:HB	12	0.85
(1,1882)	1:66:A:LEU:HD23	1:61:A:PHE:HE1	6	0.85
(1,1882)	1:66:A:LEU:HD23	1:61:A:PHE:HE1	11	0.85
(1,1882)	1:66:A:LEU:HD21	1:61:A:PHE:HE1	13	0.85
(1,1833)	1:118:A:THR:HG21	1:100:A:PHE:HB3	2	0.85
(1,1794)	1:113:A:LEU:HD23	1:79:A:LEU:HB2	4	0.85
(1,1778)	1:89:A:VAL:HG12	1:100:A:PHE:HD2	12	0.85
(1,1773)	1:98:A:LEU:HD23	1:98:A:LEU:HB2	6	0.85
(1,1773)	1:98:A:LEU:HD21	1:98:A:LEU:HB2	13	0.85
(1,1773)	1:98:A:LEU:HD23	1:98:A:LEU:HB2	16	0.85
(1,1773)	1:98:A:LEU:HD23	1:98:A:LEU:HB2	18	0.85
(1,1773)	1:98:A:LEU:HD22	1:98:A:LEU:HB2	19	0.85
(1,1773)	1:98:A:LEU:HD23	1:98:A:LEU:HB2	20	0.85
(1,1680)	1:130:A:VAL:HG21	1:136:A:GLY:HA2	5	0.85
(1,1599)	1:149:A:MET:HE1	1:149:A:MET:HB2	8	0.85
(1,1599)	1:149:A:MET:HE3	1:149:A:MET:HB2	9	0.85
(1,1598)	1:149:A:MET:HE2	1:126:A:ILE:HD11	11	0.85
(1,1563)	1:97:A:ILE:HD12	1:61:A:PHE:HD1	9	0.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1530)	1:167:A:ILE:HD12	1:168:A:GLN:HB3	15	0.85
(1,1530)	1:167:A:ILE:HD12	1:168:A:GLN:HB3	20	0.85
(1,1496)	1:162:A:SER:H	1:154:A:ALA:HB3	11	0.85
(1,1496)	1:162:A:SER:H	1:154:A:ALA:HB2	13	0.85
(1,1470)	1:37:A:LYS:H	1:38:A:VAL:HG12	2	0.85
(1,1434)	1:58:A:GLY:H	1:55:A:MET:HG2	6	0.85
(1,1434)	1:58:A:GLY:H	1:55:A:MET:HG2	14	0.85
(1,1378)	1:41:A:ASN:HD22	1:45:A:THR:HG23	18	0.85
(1,1117)	1:65:A:ASP:H	1:64:A:GLU:HB2	10	0.85
(1,974)	1:107:A:LYS:H	1:107:A:LYS:HB2	1	0.85
(1,829)	1:182:A:ILE:H	1:181:A:GLY:HA3	8	0.85
(1,829)	1:182:A:ILE:H	1:181:A:GLY:HA3	14	0.85
(1,829)	1:182:A:ILE:H	1:181:A:GLY:HA3	19	0.85
(1,764)	1:80:A:LYS:H	1:80:A:LYS:HD3	20	0.85
(1,462)	1:94:A:LEU:HD21	1:93:A:LEU:H	16	0.85
(1,454)	1:151:A:GLU:HB2	1:113:A:LEU:HD11	3	0.85
(1,443)	1:21:A:LYS:HE3	1:20:A:VAL:HG22	6	0.85
(1,410)	1:29:A:SER:HA	1:30:A:LYS:HB3	7	0.85
(1,410)	1:29:A:SER:HA	1:30:A:LYS:HB3	18	0.85
(1,305)	1:26:A:ALA:HB2	1:25:A:GLY:HA3	12	0.85
(1,276)	1:22:A:ASP:HB2	1:21:A:LYS:HG3	14	0.85
(1,219)	1:42:A:GLU:HB3	1:39:A:ARG:HB2	20	0.85
(1,163)	1:40:A:LEU:HD13	1:44:A:TYR:HB2	8	0.85
(1,115)	1:86:A:LEU:HD22	1:87:A:LYS:HD2	11	0.85
(1,47)	1:175:A:ASN:H	1:173:A:THR:HG21	10	0.85
(1,47)	1:175:A:ASN:H	1:173:A:THR:HG23	16	0.85
(1,39)	1:170:A:THR:H	1:93:A:LEU:HD21	6	0.85
(2,18)	1:152:A:VAL:H	1:137:A:LEU:O	7	0.84
(2,4)	1:79:A:LEU:H	1:87:A:LYS:O	12	0.84
(1,3468)	1:138:A:PHE:HD1	1:151:A:GLU:HG3	16	0.84
(1,3440)	1:103:A:GLU:HG2	1:108:A:TYR:HD1	5	0.84
(1,3326)	1:50:A:LYS:HD2	1:50:A:LYS:HB2	5	0.84
(1,3326)	1:50:A:LYS:HD2	1:50:A:LYS:HB2	9	0.84
(1,3290)	1:39:A:ARG:HD3	1:38:A:VAL:HG12	4	0.84
(1,3290)	1:39:A:ARG:HD3	1:38:A:VAL:HG13	14	0.84
(1,3290)	1:39:A:ARG:HD3	1:38:A:VAL:HG13	20	0.84
(1,3254)	1:99:A:VAL:HG12	1:119:A:VAL:HA	4	0.84
(1,3241)	1:113:A:LEU:HD11	1:113:A:LEU:H	10	0.84
(1,3241)	1:113:A:LEU:HD12	1:113:A:LEU:H	15	0.84
(1,3224)	1:79:A:LEU:H	1:79:A:LEU:HD21	13	0.84
(1,3224)	1:79:A:LEU:H	1:79:A:LEU:HD23	19	0.84
(1,3137)	1:107:A:LYS:HD3	1:46:A:LYS:HA	10	0.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3121)	1:46:A:LYS:HE3	1:47:A:THR:HG22	3	0.84
(1,3121)	1:46:A:LYS:HE3	1:47:A:THR:HG21	6	0.84
(1,3107)	1:36:A:LYS:HG3	1:36:A:LYS:HE2	2	0.84
(1,2994)	1:11:A:GLU:HG2	1:11:A:GLU:HA	5	0.84
(1,2969)	1:176:A:ARG:HA	1:176:A:ARG:HG2	3	0.84
(1,2963)	1:65:A:ASP:HB3	1:66:A:LEU:HB3	20	0.84
(1,2946)	1:53:A:MET:HE1	1:52:A:ILE:HD12	16	0.84
(1,2732)	1:184:A:SER:HA	1:59:A:GLN:HB2	10	0.84
(1,2707)	1:46:A:LYS:HG2	1:46:A:LYS:HA	2	0.84
(1,2707)	1:46:A:LYS:HG2	1:46:A:LYS:HA	10	0.84
(1,2707)	1:46:A:LYS:HG2	1:46:A:LYS:HA	17	0.84
(1,2530)	1:125:A:LEU:HB3	1:167:A:ILE:HG22	9	0.84
(1,2530)	1:125:A:LEU:HB3	1:167:A:ILE:HG23	15	0.84
(1,2510)	1:73:A:ARG:HD3	1:73:A:ARG:HA	5	0.84
(1,2510)	1:73:A:ARG:HD3	1:73:A:ARG:HA	8	0.84
(1,2510)	1:73:A:ARG:HD3	1:73:A:ARG:HA	13	0.84
(1,2469)	1:22:A:ASP:HB2	1:24:A:ILE:HG12	17	0.84
(1,2352)	1:130:A:VAL:HG12	1:133:A:GLU:HG2	16	0.84
(1,2313)	1:168:A:GLN:HG2	1:164:A:ILE:HG21	12	0.84
(1,2123)	1:137:A:LEU:HD11	1:152:A:VAL:HB	11	0.84
(1,2123)	1:137:A:LEU:HD13	1:152:A:VAL:HB	19	0.84
(1,2116)	1:176:A:ARG:HG3	1:11:A:GLU:HB3	4	0.84
(1,2038)	1:123:A:LYS:HG2	1:171:A:ILE:HG12	4	0.84
(1,2028)	1:124:A:LYS:HG2	1:123:A:LYS:HD3	11	0.84
(1,2016)	1:93:A:LEU:HD11	1:98:A:LEU:HG	5	0.84
(1,1988)	1:174:A:LEU:HD12	1:95:A:THR:HG22	9	0.84
(1,1988)	1:174:A:LEU:HD13	1:95:A:THR:HG21	13	0.84
(1,1988)	1:174:A:LEU:HD11	1:95:A:THR:HG23	18	0.84
(1,1955)	1:66:A:LEU:HD12	1:99:A:VAL:HB	3	0.84
(1,1910)	1:72:A:VAL:HG22	1:94:A:LEU:HA	20	0.84
(1,1882)	1:66:A:LEU:HD23	1:61:A:PHE:HE1	3	0.84
(1,1882)	1:66:A:LEU:HD23	1:61:A:PHE:HE1	16	0.84
(1,1881)	1:66:A:LEU:HD22	1:110:A:PHE:HZ	15	0.84
(1,1851)	1:170:A:THR:HG21	1:95:A:THR:HB	9	0.84
(1,1782)	1:150:A:VAL:HG12	1:150:A:VAL:HA	3	0.84
(1,1782)	1:150:A:VAL:HG13	1:150:A:VAL:HA	6	0.84
(1,1782)	1:150:A:VAL:HG12	1:150:A:VAL:HA	7	0.84
(1,1782)	1:150:A:VAL:HG12	1:150:A:VAL:HA	8	0.84
(1,1782)	1:150:A:VAL:HG11	1:150:A:VAL:HA	10	0.84
(1,1782)	1:150:A:VAL:HG12	1:150:A:VAL:HA	15	0.84
(1,1782)	1:150:A:VAL:HG11	1:150:A:VAL:HA	17	0.84
(1,1782)	1:150:A:VAL:HG13	1:150:A:VAL:HA	18	0.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1782)	1:150:A:VAL:HG13	1:150:A:VAL:HA	19	0.84
(1,1773)	1:98:A:LEU:HD21	1:98:A:LEU:HB2	1	0.84
(1,1773)	1:98:A:LEU:HD23	1:98:A:LEU:HB2	2	0.84
(1,1773)	1:98:A:LEU:HD22	1:98:A:LEU:HB2	7	0.84
(1,1773)	1:98:A:LEU:HD22	1:98:A:LEU:HB2	11	0.84
(1,1773)	1:98:A:LEU:HD23	1:98:A:LEU:HB2	14	0.84
(1,1773)	1:98:A:LEU:HD23	1:98:A:LEU:HB2	15	0.84
(1,1773)	1:98:A:LEU:HD23	1:98:A:LEU:HB2	17	0.84
(1,1712)	1:119:A:VAL:HG22	1:99:A:VAL:HG12	14	0.84
(1,1599)	1:149:A:MET:HE2	1:149:A:MET:HB2	1	0.84
(1,1599)	1:149:A:MET:HE2	1:149:A:MET:HB2	15	0.84
(1,1496)	1:162:A:SER:H	1:154:A:ALA:HB2	12	0.84
(1,1467)	1:10:A:GLN:H	1:10:A:GLN:HB2	13	0.84
(1,1378)	1:41:A:ASN:HD22	1:45:A:THR:HG21	7	0.84
(1,1245)	1:106:A:GLN:H	1:103:A:GLU:HG3	13	0.84
(1,974)	1:107:A:LYS:H	1:107:A:LYS:HB2	15	0.84
(1,829)	1:182:A:ILE:H	1:181:A:GLY:HA3	2	0.84
(1,829)	1:182:A:ILE:H	1:181:A:GLY:HA3	10	0.84
(1,829)	1:182:A:ILE:H	1:181:A:GLY:HA3	18	0.84
(1,460)	1:29:A:SER:HA	1:20:A:VAL:HG21	1	0.84
(1,460)	1:29:A:SER:HA	1:20:A:VAL:HG23	18	0.84
(1,439)	1:35:A:GLU:HB2	1:31:A:VAL:HG11	16	0.84
(1,410)	1:29:A:SER:HA	1:30:A:LYS:HB3	1	0.84
(1,410)	1:29:A:SER:HA	1:30:A:LYS:HB3	8	0.84
(1,371)	1:19:A:LEU:HB2	1:18:A:SER:HB2	8	0.84
(1,370)	1:18:A:SER:HB3	1:19:A:LEU:HG	7	0.84
(1,348)	1:162:A:SER:HB2	1:161:A:ASN:HB3	7	0.84
(1,305)	1:26:A:ALA:HB1	1:25:A:GLY:HA3	3	0.84
(1,305)	1:26:A:ALA:HB3	1:25:A:GLY:HA3	11	0.84
(1,305)	1:26:A:ALA:HB3	1:25:A:GLY:HA3	15	0.84
(1,305)	1:26:A:ALA:HB2	1:25:A:GLY:HA3	19	0.84
(1,151)	1:50:A:LYS:HG2	1:49:A:SER:HB2	12	0.84
(1,137)	1:67:A:LYS:HG2	1:68:A:ARG:HB2	5	0.84
(1,104)	1:167:A:ILE:HG23	1:171:A:ILE:H	5	0.84
(1,104)	1:167:A:ILE:HG23	1:171:A:ILE:H	12	0.84
(1,60)	1:44:A:TYR:H	1:43:A:ILE:HD12	19	0.84
(1,36)	1:169:A:ASP:H	1:166:A:ILE:HD12	3	0.84
(1,36)	1:169:A:ASP:H	1:166:A:ILE:HD11	10	0.84
(1,9)	1:98:A:LEU:H	1:120:A:ILE:HD11	4	0.84
(1,5)	1:120:A:ILE:H	1:97:A:ILE:HG23	5	0.84
(2,20)	1:154:A:ALA:H	1:135:A:LYS:O	7	0.83
(2,17)	1:140:A:ILE:H	1:126:A:ILE:O	10	0.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3326)	1:50:A:LYS:HD2	1:50:A:LYS:HB2	3	0.83
(1,3254)	1:99:A:VAL:HG11	1:119:A:VAL:HA	7	0.83
(1,3142)	1:89:A:VAL:HG11	1:87:A:LYS:HE3	11	0.83
(1,3137)	1:107:A:LYS:HD3	1:46:A:LYS:HA	14	0.83
(1,3121)	1:46:A:LYS:HE3	1:47:A:THR:HG22	2	0.83
(1,3121)	1:46:A:LYS:HE3	1:47:A:THR:HG23	11	0.83
(1,3121)	1:46:A:LYS:HE3	1:47:A:THR:HG23	19	0.83
(1,3107)	1:36:A:LYS:HG3	1:36:A:LYS:HE2	18	0.83
(1,3090)	1:58:A:GLY:HA3	1:54:A:ARG:HG3	1	0.83
(1,2833)	1:63:A:LYS:HD2	1:49:A:SER:HB2	7	0.83
(1,2830)	1:97:A:ILE:HG23	1:119:A:VAL:HA	7	0.83
(1,2732)	1:184:A:SER:HA	1:59:A:GLN:HB2	20	0.83
(1,2707)	1:46:A:LYS:HG2	1:46:A:LYS:HA	9	0.83
(1,2707)	1:46:A:LYS:HG2	1:46:A:LYS:HA	20	0.83
(1,2660)	1:130:A:VAL:HG21	1:138:A:PHE:HA	18	0.83
(1,2530)	1:125:A:LEU:HB3	1:167:A:ILE:HG21	3	0.83
(1,2530)	1:125:A:LEU:HB3	1:167:A:ILE:HG23	6	0.83
(1,2205)	1:165:A:GLN:HB2	1:166:A:ILE:HG12	2	0.83
(1,2205)	1:165:A:GLN:HB2	1:166:A:ILE:HG12	14	0.83
(1,2195)	1:35:A:GLU:HB3	1:32:A:ALA:HB1	14	0.83
(1,2188)	1:98:A:LEU:HD21	1:93:A:LEU:HD22	20	0.83
(1,2028)	1:124:A:LYS:HG2	1:123:A:LYS:HD3	5	0.83
(1,2024)	1:94:A:LEU:HD23	1:61:A:PHE:HE1	15	0.83
(1,1988)	1:174:A:LEU:HD12	1:95:A:THR:HG23	14	0.83
(1,1972)	1:66:A:LEU:HD12	1:101:A:LEU:HD13	4	0.83
(1,1933)	1:70:A:LYS:HG3	1:36:A:LYS:HE2	6	0.83
(1,1882)	1:66:A:LEU:HD22	1:61:A:PHE:HE1	2	0.83
(1,1882)	1:66:A:LEU:HD22	1:61:A:PHE:HE1	14	0.83
(1,1882)	1:66:A:LEU:HD21	1:61:A:PHE:HE1	19	0.83
(1,1782)	1:150:A:VAL:HG13	1:150:A:VAL:HA	9	0.83
(1,1782)	1:150:A:VAL:HG12	1:150:A:VAL:HA	11	0.83
(1,1782)	1:150:A:VAL:HG12	1:150:A:VAL:HA	16	0.83
(1,1782)	1:150:A:VAL:HG11	1:150:A:VAL:HA	20	0.83
(1,1773)	1:98:A:LEU:HD22	1:98:A:LEU:HB2	3	0.83
(1,1773)	1:98:A:LEU:HD21	1:98:A:LEU:HB2	4	0.83
(1,1773)	1:98:A:LEU:HD22	1:98:A:LEU:HB2	5	0.83
(1,1773)	1:98:A:LEU:HD22	1:98:A:LEU:HB2	8	0.83
(1,1773)	1:98:A:LEU:HD21	1:98:A:LEU:HB2	9	0.83
(1,1773)	1:98:A:LEU:HD22	1:98:A:LEU:HB2	10	0.83
(1,1773)	1:98:A:LEU:HD22	1:98:A:LEU:HB2	12	0.83
(1,1680)	1:130:A:VAL:HG22	1:136:A:GLY:HA2	4	0.83
(1,1599)	1:149:A:MET:HE3	1:149:A:MET:HB2	14	0.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1598)	1:149:A:MET:HE3	1:126:A:ILE:HD12	18	0.83
(1,1504)	1:163:A:TRP:HE1	1:75:A:GLY:HA2	5	0.83
(1,1498)	1:54:A:ARG:H	1:54:A:ARG:HG2	6	0.83
(1,1498)	1:54:A:ARG:H	1:54:A:ARG:HG2	18	0.83
(1,1467)	1:10:A:GLN:H	1:10:A:GLN:HB2	2	0.83
(1,1434)	1:58:A:GLY:H	1:55:A:MET:HG2	3	0.83
(1,1378)	1:41:A:ASN:HD22	1:45:A:THR:HG21	8	0.83
(1,1014)	1:161:A:ASN:H	1:161:A:ASN:HD22	14	0.83
(1,974)	1:107:A:LYS:H	1:107:A:LYS:HB2	3	0.83
(1,974)	1:107:A:LYS:H	1:107:A:LYS:HB2	9	0.83
(1,974)	1:107:A:LYS:H	1:107:A:LYS:HB2	11	0.83
(1,974)	1:107:A:LYS:H	1:107:A:LYS:HB2	19	0.83
(1,829)	1:182:A:ILE:H	1:181:A:GLY:HA3	5	0.83
(1,829)	1:182:A:ILE:H	1:181:A:GLY:HA3	15	0.83
(1,497)	1:139:A:LEU:HA	1:128:A:ARG:HG3	2	0.83
(1,489)	1:70:A:LYS:HB3	1:36:A:LYS:HE2	13	0.83
(1,464)	1:112:A:SER:HB3	1:118:A:THR:HG21	1	0.83
(1,454)	1:151:A:GLU:HB2	1:113:A:LEU:HD12	12	0.83
(1,388)	1:128:A:ARG:HB3	1:126:A:ILE:HD11	10	0.83
(1,305)	1:26:A:ALA:HB3	1:25:A:GLY:HA3	10	0.83
(1,280)	1:67:A:LYS:HG3	1:67:A:LYS:HE3	3	0.83
(1,276)	1:22:A:ASP:HB2	1:26:A:ALA:HB2	10	0.83
(1,276)	1:22:A:ASP:HB2	1:26:A:ALA:HB1	16	0.83
(1,175)	1:37:A:LYS:HG2	1:38:A:VAL:HG21	6	0.83
(1,115)	1:86:A:LEU:HD23	1:87:A:LYS:HD2	7	0.83
(1,115)	1:86:A:LEU:HD23	1:87:A:LYS:HD2	12	0.83
(1,62)	1:4:A:LYS:H	1:5:A:ASP:HB2	19	0.83
(1,47)	1:175:A:ASN:H	1:173:A:THR:HG22	6	0.83
(1,39)	1:170:A:THR:H	1:93:A:LEU:HD22	19	0.83
(1,16)	1:174:A:LEU:H	1:170:A:THR:HG22	9	0.83
(2,18)	1:152:A:VAL:H	1:137:A:LEU:O	13	0.82
(2,3)	1:78:A:PHE:H	1:153:A:HIS:O	4	0.82
(1,3326)	1:50:A:LYS:HD2	1:50:A:LYS:HB2	15	0.82
(1,3326)	1:50:A:LYS:HD2	1:50:A:LYS:HB2	17	0.82
(1,3254)	1:99:A:VAL:HG12	1:119:A:VAL:HA	5	0.82
(1,3254)	1:99:A:VAL:HG12	1:119:A:VAL:HA	13	0.82
(1,3254)	1:99:A:VAL:HG12	1:119:A:VAL:HA	14	0.82
(1,3241)	1:113:A:LEU:HD12	1:113:A:LEU:H	16	0.82
(1,3107)	1:36:A:LYS:HG3	1:36:A:LYS:HE2	13	0.82
(1,3107)	1:36:A:LYS:HG3	1:36:A:LYS:HE2	14	0.82
(1,3090)	1:58:A:GLY:HA3	1:54:A:ARG:HG3	15	0.82
(1,3078)	1:134:A:GLU:HG3	1:134:A:GLU:HA	11	0.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2963)	1:65:A:ASP:HB3	1:66:A:LEU:HB3	12	0.82
(1,2946)	1:53:A:MET:HE1	1:52:A:ILE:HD13	6	0.82
(1,2898)	1:149:A:MET:HB3	1:138:A:PHE:HD1	15	0.82
(1,2830)	1:97:A:ILE:HG22	1:119:A:VAL:HA	8	0.82
(1,2819)	1:121:A:SER:HA	1:121:A:SER:HB2	20	0.82
(1,2707)	1:46:A:LYS:HG2	1:46:A:LYS:HA	3	0.82
(1,2707)	1:46:A:LYS:HG2	1:46:A:LYS:HA	5	0.82
(1,2707)	1:46:A:LYS:HG2	1:46:A:LYS:HA	7	0.82
(1,2707)	1:46:A:LYS:HG2	1:46:A:LYS:HA	12	0.82
(1,2707)	1:46:A:LYS:HG2	1:46:A:LYS:HA	14	0.82
(1,2629)	1:137:A:LEU:HA	1:130:A:VAL:HG21	5	0.82
(1,2530)	1:125:A:LEU:HB3	1:167:A:ILE:HG21	10	0.82
(1,2510)	1:73:A:ARG:HD3	1:73:A:ARG:HA	17	0.82
(1,2353)	1:133:A:GLU:HG3	1:130:A:VAL:HG13	17	0.82
(1,2352)	1:130:A:VAL:HG13	1:133:A:GLU:HG2	10	0.82
(1,2205)	1:165:A:GLN:HB2	1:166:A:ILE:HG12	6	0.82
(1,2205)	1:165:A:GLN:HB2	1:166:A:ILE:HG12	11	0.82
(1,2205)	1:165:A:GLN:HB2	1:166:A:ILE:HG12	18	0.82
(1,2195)	1:35:A:GLU:HB3	1:32:A:ALA:HB3	3	0.82
(1,2195)	1:35:A:GLU:HB3	1:32:A:ALA:HB2	5	0.82
(1,2195)	1:35:A:GLU:HB3	1:32:A:ALA:HB1	17	0.82
(1,2189)	1:171:A:ILE:HG22	1:123:A:LYS:HD3	7	0.82
(1,2160)	1:107:A:LYS:HD3	1:109:A:ILE:HG21	4	0.82
(1,2156)	1:107:A:LYS:HD3	1:48:A:ASP:HB2	3	0.82
(1,2123)	1:137:A:LEU:HD13	1:152:A:VAL:HB	3	0.82
(1,2123)	1:137:A:LEU:HD12	1:152:A:VAL:HB	15	0.82
(1,2123)	1:137:A:LEU:HD11	1:152:A:VAL:HB	18	0.82
(1,2116)	1:176:A:ARG:HG3	1:11:A:GLU:HB3	5	0.82
(1,2090)	1:128:A:ARG:HG2	1:140:A:ILE:HD13	11	0.82
(1,2046)	1:79:A:LEU:HD12	1:100:A:PHE:HA	13	0.82
(1,2038)	1:123:A:LYS:HG2	1:171:A:ILE:HG12	8	0.82
(1,2014)	1:93:A:LEU:HD12	1:98:A:LEU:HD22	12	0.82
(1,1988)	1:174:A:LEU:HD12	1:95:A:THR:HG23	19	0.82
(1,1981)	1:71:A:LEU:HD23	1:40:A:LEU:HB3	10	0.82
(1,1965)	1:46:A:LYS:HG3	1:108:A:TYR:HE2	19	0.82
(1,1955)	1:66:A:LEU:HD13	1:99:A:VAL:HB	20	0.82
(1,1882)	1:66:A:LEU:HD22	1:61:A:PHE:HE1	10	0.82
(1,1881)	1:66:A:LEU:HD23	1:110:A:PHE:HZ	5	0.82
(1,1799)	1:127:A:VAL:HG13	1:137:A:LEU:HD22	8	0.82
(1,1794)	1:113:A:LEU:HD23	1:79:A:LEU:HB2	9	0.82
(1,1794)	1:113:A:LEU:HD23	1:79:A:LEU:HB2	19	0.82
(1,1782)	1:150:A:VAL:HG12	1:150:A:VAL:HA	4	0.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1782)	1:150:A:VAL:HG11	1:150:A:VAL:HA	5	0.82
(1,1782)	1:150:A:VAL:HG13	1:150:A:VAL:HA	13	0.82
(1,1760)	1:99:A:VAL:HG11	1:101:A:LEU:HD12	3	0.82
(1,1728)	1:31:A:VAL:HG11	1:35:A:GLU:HG3	9	0.82
(1,1712)	1:119:A:VAL:HG23	1:99:A:VAL:HG11	7	0.82
(1,1712)	1:119:A:VAL:HG23	1:99:A:VAL:HG12	12	0.82
(1,1654)	1:140:A:ILE:HG22	1:126:A:ILE:HG13	4	0.82
(1,1654)	1:140:A:ILE:HG22	1:126:A:ILE:HG13	13	0.82
(1,1599)	1:149:A:MET:HE2	1:149:A:MET:HB2	19	0.82
(1,1498)	1:54:A:ARG:H	1:54:A:ARG:HG2	14	0.82
(1,1467)	1:10:A:GLN:H	1:10:A:GLN:HB2	10	0.82
(1,1464)	1:180:A:GLU:H	1:180:A:GLU:HG2	18	0.82
(1,1378)	1:41:A:ASN:HD22	1:45:A:THR:HG22	2	0.82
(1,998)	1:119:A:VAL:H	1:117:A:SER:HB3	10	0.82
(1,988)	1:158:A:GLU:H	1:158:A:GLU:HG3	10	0.82
(1,974)	1:107:A:LYS:H	1:107:A:LYS:HB2	6	0.82
(1,974)	1:107:A:LYS:H	1:107:A:LYS:HB2	14	0.82
(1,974)	1:107:A:LYS:H	1:107:A:LYS:HB2	16	0.82
(1,974)	1:107:A:LYS:H	1:107:A:LYS:HB2	17	0.82
(1,974)	1:107:A:LYS:H	1:107:A:LYS:HB2	20	0.82
(1,764)	1:80:A:LYS:H	1:80:A:LYS:HD3	9	0.82
(1,497)	1:139:A:LEU:HA	1:128:A:ARG:HG3	3	0.82
(1,497)	1:139:A:LEU:HA	1:128:A:ARG:HG3	14	0.82
(1,464)	1:112:A:SER:HB3	1:118:A:THR:HG22	12	0.82
(1,410)	1:29:A:SER:HA	1:30:A:LYS:HB3	11	0.82
(1,370)	1:18:A:SER:HB2	1:19:A:LEU:HG	14	0.82
(1,320)	1:138:A:PHE:HA	1:139:A:LEU:HD21	8	0.82
(1,305)	1:26:A:ALA:HB2	1:25:A:GLY:HA3	20	0.82
(1,300)	1:73:A:ARG:HD2	1:163:A:TRP:HH2	19	0.82
(1,291)	1:54:A:ARG:HD2	1:54:A:ARG:HB2	5	0.82
(1,159)	1:71:A:LEU:HD13	1:94:A:LEU:HA	4	0.82
(1,137)	1:67:A:LYS:HG2	1:68:A:ARG:HB2	16	0.82
(1,104)	1:167:A:ILE:HG21	1:171:A:ILE:H	9	0.82
(1,104)	1:167:A:ILE:HG21	1:171:A:ILE:H	20	0.82
(1,97)	1:166:A:ILE:HD13	1:163:A:TRP:HA	5	0.82
(1,16)	1:174:A:LEU:H	1:173:A:THR:HG22	4	0.82
(1,16)	1:174:A:LEU:H	1:170:A:THR:HG23	6	0.82
(1,9)	1:98:A:LEU:H	1:120:A:ILE:HD11	3	0.82
(2,27)	1:171:A:ILE:H	1:167:A:ILE:O	5	0.81
(2,9)	1:93:A:LEU:H	1:73:A:ARG:O	1	0.81
(1,3440)	1:103:A:GLU:HG2	1:108:A:TYR:HD1	11	0.81
(1,3387)	1:94:A:LEU:HD13	1:97:A:ILE:HD11	17	0.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3340)	1:107:A:LYS:HG3	1:108:A:TYR:HB3	3	0.81
(1,3340)	1:107:A:LYS:HG3	1:108:A:TYR:HB3	6	0.81
(1,3340)	1:107:A:LYS:HG3	1:108:A:TYR:HB3	14	0.81
(1,3326)	1:50:A:LYS:HD2	1:50:A:LYS:HB2	16	0.81
(1,3326)	1:50:A:LYS:HD2	1:50:A:LYS:HB2	19	0.81
(1,3326)	1:50:A:LYS:HD2	1:50:A:LYS:HB2	20	0.81
(1,3263)	1:149:A:MET:HE3	1:142:A:MET:HE3	18	0.81
(1,3254)	1:99:A:VAL:HG12	1:119:A:VAL:HA	3	0.81
(1,3254)	1:99:A:VAL:HG12	1:119:A:VAL:HA	6	0.81
(1,3254)	1:99:A:VAL:HG11	1:119:A:VAL:HA	17	0.81
(1,3241)	1:113:A:LEU:HD13	1:113:A:LEU:H	14	0.81
(1,3224)	1:79:A:LEU:H	1:79:A:LEU:HD23	1	0.81
(1,3142)	1:89:A:VAL:HG13	1:87:A:LYS:HE3	7	0.81
(1,3142)	1:89:A:VAL:HG11	1:87:A:LYS:HE3	12	0.81
(1,3121)	1:46:A:LYS:HE3	1:47:A:THR:HG23	17	0.81
(1,3107)	1:36:A:LYS:HG3	1:36:A:LYS:HE2	1	0.81
(1,3107)	1:36:A:LYS:HG3	1:36:A:LYS:HE2	7	0.81
(1,3107)	1:36:A:LYS:HG3	1:36:A:LYS:HE2	8	0.81
(1,3078)	1:134:A:GLU:HG3	1:134:A:GLU:HA	16	0.81
(1,2969)	1:176:A:ARG:HA	1:176:A:ARG:HG2	6	0.81
(1,2963)	1:65:A:ASP:HB3	1:66:A:LEU:HB3	8	0.81
(1,2920)	1:141:A:SER:HB2	1:56:A:LYS:HB3	8	0.81
(1,2898)	1:149:A:MET:HB3	1:138:A:PHE:HD1	2	0.81
(1,2890)	1:47:A:THR:HG21	1:108:A:TYR:HB3	8	0.81
(1,2739)	1:123:A:LYS:HD3	1:123:A:LYS:HA	10	0.81
(1,2707)	1:46:A:LYS:HG2	1:46:A:LYS:HA	1	0.81
(1,2707)	1:46:A:LYS:HG2	1:46:A:LYS:HA	6	0.81
(1,2653)	1:80:A:LYS:HA	1:80:A:LYS:HD3	8	0.81
(1,2645)	1:142:A:MET:HA	1:147:A:PRO:HG2	12	0.81
(1,2629)	1:137:A:LEU:HA	1:130:A:VAL:HG21	1	0.81
(1,2629)	1:137:A:LEU:HA	1:130:A:VAL:HG22	4	0.81
(1,2579)	1:79:A:LEU:HD23	1:79:A:LEU:HA	10	0.81
(1,2510)	1:73:A:ARG:HD3	1:73:A:ARG:HA	1	0.81
(1,2510)	1:73:A:ARG:HD3	1:73:A:ARG:HA	11	0.81
(1,2480)	1:69:A:LYS:HE3	1:97:A:ILE:HG13	19	0.81
(1,2352)	1:130:A:VAL:HG11	1:133:A:GLU:HG2	1	0.81
(1,2205)	1:165:A:GLN:HB2	1:166:A:ILE:HG12	1	0.81
(1,2196)	1:35:A:GLU:HB2	1:38:A:VAL:HG22	11	0.81
(1,2187)	1:93:A:LEU:HD22	1:125:A:LEU:HD23	5	0.81
(1,2179)	1:80:A:LYS:HD3	1:80:A:LYS:HB2	12	0.81
(1,2156)	1:107:A:LYS:HD3	1:48:A:ASP:HB2	6	0.81
(1,2149)	1:168:A:GLN:HB3	1:165:A:GLN:HA	17	0.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2046)	1:79:A:LEU:HD13	1:100:A:PHE:HA	10	0.81
(1,2028)	1:124:A:LYS:HG2	1:123:A:LYS:HD3	16	0.81
(1,2022)	1:93:A:LEU:HD13	1:72:A:VAL:H	20	0.81
(1,1988)	1:174:A:LEU:HD12	1:95:A:THR:HG23	6	0.81
(1,1955)	1:66:A:LEU:HD13	1:99:A:VAL:HB	13	0.81
(1,1882)	1:66:A:LEU:HD21	1:61:A:PHE:HE1	18	0.81
(1,1882)	1:66:A:LEU:HD23	1:61:A:PHE:HE1	20	0.81
(1,1851)	1:170:A:THR:HG22	1:95:A:THR:HB	16	0.81
(1,1832)	1:118:A:THR:HG22	1:113:A:LEU:HB3	12	0.81
(1,1782)	1:150:A:VAL:HG13	1:150:A:VAL:HA	1	0.81
(1,1782)	1:150:A:VAL:HG12	1:150:A:VAL:HA	2	0.81
(1,1782)	1:150:A:VAL:HG11	1:150:A:VAL:HA	14	0.81
(1,1760)	1:99:A:VAL:HG12	1:101:A:LEU:HD13	10	0.81
(1,1680)	1:130:A:VAL:HG21	1:136:A:GLY:HA2	3	0.81
(1,1599)	1:149:A:MET:HE2	1:149:A:MET:HB2	5	0.81
(1,1560)	1:97:A:ILE:HD11	1:69:A:LYS:HE3	3	0.81
(1,1544)	1:120:A:ILE:HD13	1:98:A:LEU:HD11	2	0.81
(1,1498)	1:54:A:ARG:H	1:54:A:ARG:HG2	15	0.81
(1,1378)	1:41:A:ASN:HD22	1:45:A:THR:HG21	9	0.81
(1,1341)	1:100:A:PHE:H	1:99:A:VAL:HG11	4	0.81
(1,1315)	1:179:A:ASP:H	1:179:A:ASP:HB3	2	0.81
(1,974)	1:107:A:LYS:H	1:107:A:LYS:HB2	8	0.81
(1,974)	1:107:A:LYS:H	1:107:A:LYS:HB2	13	0.81
(1,829)	1:182:A:ILE:H	1:181:A:GLY:HA3	3	0.81
(1,764)	1:80:A:LYS:H	1:80:A:LYS:HD3	2	0.81
(1,764)	1:80:A:LYS:H	1:80:A:LYS:HD3	5	0.81
(1,764)	1:80:A:LYS:H	1:80:A:LYS:HD3	7	0.81
(1,764)	1:80:A:LYS:H	1:80:A:LYS:HD3	12	0.81
(1,497)	1:139:A:LEU:HA	1:128:A:ARG:HG3	7	0.81
(1,463)	1:139:A:LEU:HD22	1:120:A:ILE:H	13	0.81
(1,462)	1:94:A:LEU:HD21	1:93:A:LEU:H	3	0.81
(1,454)	1:151:A:GLU:HB2	1:113:A:LEU:HD13	10	0.81
(1,443)	1:21:A:LYS:HE2	1:20:A:VAL:HG23	13	0.81
(1,439)	1:35:A:GLU:HB2	1:31:A:VAL:HG11	9	0.81
(1,432)	1:67:A:LYS:HE3	1:44:A:TYR:HD1	5	0.81
(1,410)	1:29:A:SER:HA	1:30:A:LYS:HB3	3	0.81
(1,410)	1:29:A:SER:HA	1:30:A:LYS:HB3	15	0.81
(1,286)	1:39:A:ARG:HD2	1:71:A:LEU:HD21	2	0.81
(1,272)	1:87:A:LYS:HE3	1:79:A:LEU:HB2	17	0.81
(1,219)	1:42:A:GLU:HB3	1:39:A:ARG:HB2	5	0.81
(1,219)	1:42:A:GLU:HB3	1:39:A:ARG:HB2	9	0.81
(1,219)	1:42:A:GLU:HB3	1:39:A:ARG:HB2	14	0.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,163)	1:40:A:LEU:HD11	1:44:A:TYR:HB2	17	0.81
(1,137)	1:67:A:LYS:HG2	1:68:A:ARG:HB2	11	0.81
(1,115)	1:86:A:LEU:HD23	1:87:A:LYS:HD2	1	0.81
(1,104)	1:167:A:ILE:HG23	1:171:A:ILE:H	7	0.81
(1,97)	1:166:A:ILE:HD11	1:163:A:TRP:HA	16	0.81
(1,16)	1:174:A:LEU:H	1:173:A:THR:HG22	7	0.81
(1,9)	1:98:A:LEU:H	1:120:A:ILE:HG21	11	0.81
(1,9)	1:98:A:LEU:H	1:120:A:ILE:HG22	19	0.81
(2,19)	1:153:A:HIS:H	1:78:A:PHE:O	7	0.8
(1,3440)	1:103:A:GLU:HG2	1:108:A:TYR:HD1	12	0.8
(1,3371)	1:67:A:LYS:HD2	1:67:A:LYS:HB3	3	0.8
(1,3326)	1:50:A:LYS:HD2	1:50:A:LYS:HB2	6	0.8
(1,3326)	1:50:A:LYS:HD2	1:50:A:LYS:HB2	18	0.8
(1,3325)	1:112:A:SER:HA	1:53:A:MET:HE3	1	0.8
(1,3260)	1:171:A:ILE:HA	1:125:A:LEU:HD12	18	0.8
(1,3241)	1:113:A:LEU:HD12	1:113:A:LEU:H	13	0.8
(1,3241)	1:113:A:LEU:HD11	1:113:A:LEU:H	17	0.8
(1,3121)	1:46:A:LYS:HE3	1:47:A:THR:HG21	14	0.8
(1,3107)	1:36:A:LYS:HG3	1:36:A:LYS:HE2	9	0.8
(1,3107)	1:36:A:LYS:HG3	1:36:A:LYS:HE2	10	0.8
(1,3090)	1:58:A:GLY:HA3	1:54:A:ARG:HG3	8	0.8
(1,3090)	1:58:A:GLY:HA3	1:54:A:ARG:HG3	18	0.8
(1,3016)	1:151:A:GLU:HG2	1:150:A:VAL:HG13	12	0.8
(1,2984)	1:36:A:LYS:HE3	1:36:A:LYS:HB3	19	0.8
(1,2962)	1:66:A:LEU:HG	1:65:A:ASP:HB3	15	0.8
(1,2916)	1:141:A:SER:HB3	1:120:A:ILE:HG21	7	0.8
(1,2899)	1:142:A:MET:HB3	1:126:A:ILE:HG12	16	0.8
(1,2836)	1:141:A:SER:HB2	1:147:A:PRO:HB2	6	0.8
(1,2836)	1:141:A:SER:HB2	1:147:A:PRO:HB2	18	0.8
(1,2707)	1:46:A:LYS:HG2	1:46:A:LYS:HA	16	0.8
(1,2660)	1:130:A:VAL:HG23	1:138:A:PHE:HA	15	0.8
(1,2653)	1:80:A:LYS:HA	1:80:A:LYS:HD3	13	0.8
(1,2645)	1:142:A:MET:HA	1:147:A:PRO:HG2	14	0.8
(1,2581)	1:53:A:MET:HA	1:119:A:VAL:HG13	8	0.8
(1,2579)	1:79:A:LEU:HD21	1:79:A:LEU:HA	7	0.8
(1,2579)	1:79:A:LEU:HD21	1:79:A:LEU:HA	8	0.8
(1,2579)	1:79:A:LEU:HD21	1:79:A:LEU:HA	17	0.8
(1,2579)	1:79:A:LEU:HD22	1:79:A:LEU:HA	18	0.8
(1,2313)	1:168:A:GLN:HG2	1:164:A:ILE:HG22	5	0.8
(1,2205)	1:165:A:GLN:HB2	1:166:A:ILE:HG12	15	0.8
(1,2205)	1:165:A:GLN:HB2	1:166:A:ILE:HG12	17	0.8
(1,2179)	1:80:A:LYS:HD3	1:80:A:LYS:HB2	5	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2149)	1:168:A:GLN:HB3	1:165:A:GLN:HA	20	0.8
(1,2046)	1:79:A:LEU:HD13	1:100:A:PHE:HA	14	0.8
(1,2014)	1:93:A:LEU:HD12	1:98:A:LEU:HD21	3	0.8
(1,2014)	1:93:A:LEU:HD13	1:98:A:LEU:HD21	13	0.8
(1,1891)	1:174:A:LEU:HD21	1:123:A:LYS:HE2	15	0.8
(1,1882)	1:66:A:LEU:HD22	1:61:A:PHE:HE1	9	0.8
(1,1867)	1:19:A:LEU:HD22	1:19:A:LEU:HA	12	0.8
(1,1851)	1:170:A:THR:HG21	1:95:A:THR:HB	19	0.8
(1,1832)	1:118:A:THR:HG22	1:113:A:LEU:HB3	18	0.8
(1,1778)	1:89:A:VAL:HG13	1:100:A:PHE:HD1	4	0.8
(1,1778)	1:89:A:VAL:HG11	1:100:A:PHE:HD1	15	0.8
(1,1778)	1:89:A:VAL:HG12	1:100:A:PHE:HD1	18	0.8
(1,1599)	1:149:A:MET:HE1	1:149:A:MET:HB2	20	0.8
(1,1563)	1:97:A:ILE:HD13	1:61:A:PHE:HD1	6	0.8
(1,1549)	1:120:A:ILE:HD11	1:120:A:ILE:HB	7	0.8
(1,1496)	1:162:A:SER:H	1:154:A:ALA:HB3	18	0.8
(1,1467)	1:10:A:GLN:H	1:10:A:GLN:HB2	3	0.8
(1,1318)	1:4:A:LYS:H	1:6:A:ASN:HD22	13	0.8
(1,1315)	1:179:A:ASP:H	1:179:A:ASP:HB3	10	0.8
(1,1315)	1:179:A:ASP:H	1:179:A:ASP:HB3	16	0.8
(1,1245)	1:106:A:GLN:H	1:103:A:GLU:HG3	17	0.8
(1,1245)	1:106:A:GLN:H	1:103:A:GLU:HG3	18	0.8
(1,974)	1:107:A:LYS:H	1:107:A:LYS:HB2	2	0.8
(1,974)	1:107:A:LYS:H	1:107:A:LYS:HB2	4	0.8
(1,974)	1:107:A:LYS:H	1:107:A:LYS:HB2	7	0.8
(1,974)	1:107:A:LYS:H	1:107:A:LYS:HB2	10	0.8
(1,974)	1:107:A:LYS:H	1:107:A:LYS:HB2	12	0.8
(1,974)	1:107:A:LYS:H	1:107:A:LYS:HB2	18	0.8
(1,764)	1:80:A:LYS:H	1:80:A:LYS:HD3	1	0.8
(1,497)	1:139:A:LEU:HA	1:128:A:ARG:HG3	17	0.8
(1,462)	1:94:A:LEU:HD22	1:93:A:LEU:H	18	0.8
(1,460)	1:29:A:SER:HA	1:20:A:VAL:HG23	10	0.8
(1,410)	1:29:A:SER:HA	1:30:A:LYS:HB3	5	0.8
(1,331)	1:15:A:GLN:HA	1:15:A:GLN:HG3	19	0.8
(1,318)	1:125:A:LEU:HA	1:126:A:ILE:HG22	20	0.8
(1,317)	1:14:A:ALA:HA	1:8:A:VAL:HG22	5	0.8
(1,300)	1:73:A:ARG:HD2	1:163:A:TRP:HH2	9	0.8
(1,296)	1:19:A:LEU:HB2	1:15:A:GLN:HA	11	0.8
(1,276)	1:22:A:ASP:HB2	1:26:A:ALA:HB1	7	0.8
(1,276)	1:22:A:ASP:HB2	1:26:A:ALA:HB1	12	0.8
(1,211)	1:109:A:ILE:HD12	1:104:A:LYS:HD3	12	0.8
(1,210)	1:70:A:LYS:HD2	1:8:A:VAL:HG11	4	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,175)	1:37:A:LYS:HG2	1:38:A:VAL:HG23	12	0.8
(1,163)	1:40:A:LEU:HD12	1:44:A:TYR:HB2	20	0.8
(1,155)	1:71:A:LEU:HD22	1:39:A:ARG:HB2	6	0.8
(1,137)	1:67:A:LYS:HG2	1:68:A:ARG:HB2	9	0.8
(1,125)	1:62:A:ALA:HB1	1:64:A:GLU:HG2	19	0.8
(1,115)	1:86:A:LEU:HD21	1:87:A:LYS:HD2	19	0.8
(1,104)	1:167:A:ILE:HG23	1:171:A:ILE:H	11	0.8
(1,104)	1:167:A:ILE:HG21	1:171:A:ILE:H	13	0.8
(1,104)	1:167:A:ILE:HG23	1:171:A:ILE:H	14	0.8
(1,104)	1:167:A:ILE:HG23	1:171:A:ILE:H	17	0.8
(1,97)	1:166:A:ILE:HD13	1:163:A:TRP:HA	7	0.8
(1,16)	1:174:A:LEU:H	1:170:A:THR:HG21	3	0.8
(1,16)	1:174:A:LEU:H	1:173:A:THR:HG22	8	0.8
(1,16)	1:174:A:LEU:H	1:170:A:THR:HG23	13	0.8
(1,16)	1:174:A:LEU:H	1:173:A:THR:HG23	15	0.8
(1,16)	1:174:A:LEU:H	1:170:A:THR:HG23	18	0.8
(1,5)	1:120:A:ILE:H	1:97:A:ILE:HG21	19	0.8
(2,9)	1:93:A:LEU:H	1:73:A:ARG:O	4	0.79
(2,3)	1:78:A:PHE:H	1:153:A:HIS:O	19	0.79
(1,3340)	1:107:A:LYS:HG3	1:108:A:TYR:HB3	7	0.79
(1,3326)	1:50:A:LYS:HD2	1:50:A:LYS:HB2	11	0.79
(1,3326)	1:50:A:LYS:HD2	1:50:A:LYS:HB2	14	0.79
(1,3254)	1:99:A:VAL:HG12	1:119:A:VAL:HA	12	0.79
(1,3241)	1:113:A:LEU:HD12	1:113:A:LEU:H	6	0.79
(1,3241)	1:113:A:LEU:HD12	1:113:A:LEU:H	9	0.79
(1,3233)	1:86:A:LEU:HD22	1:78:A:PHE:HE2	16	0.79
(1,3224)	1:79:A:LEU:H	1:79:A:LEU:HD21	3	0.79
(1,3224)	1:79:A:LEU:H	1:79:A:LEU:HD23	15	0.79
(1,3142)	1:89:A:VAL:HG13	1:87:A:LYS:HE3	6	0.79
(1,3142)	1:89:A:VAL:HG12	1:87:A:LYS:HE3	9	0.79
(1,3121)	1:46:A:LYS:HE3	1:47:A:THR:HG21	16	0.79
(1,3107)	1:36:A:LYS:HG3	1:36:A:LYS:HE2	11	0.79
(1,2963)	1:65:A:ASP:HB3	1:66:A:LEU:HB3	11	0.79
(1,2959)	1:110:A:PHE:HB2	1:119:A:VAL:HG12	18	0.79
(1,2959)	1:110:A:PHE:HB2	1:119:A:VAL:HG11	20	0.79
(1,2898)	1:149:A:MET:HB3	1:138:A:PHE:HD1	4	0.79
(1,2898)	1:149:A:MET:HB3	1:138:A:PHE:HD1	13	0.79
(1,2898)	1:149:A:MET:HB3	1:138:A:PHE:HD1	14	0.79
(1,2898)	1:149:A:MET:HB3	1:138:A:PHE:HD1	20	0.79
(1,2830)	1:97:A:ILE:HG21	1:119:A:VAL:HA	13	0.79
(1,2629)	1:137:A:LEU:HA	1:130:A:VAL:HG22	10	0.79
(1,2579)	1:79:A:LEU:HD22	1:79:A:LEU:HA	1	0.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2579)	1:79:A:LEU:HD23	1:79:A:LEU:HA	2	0.79
(1,2579)	1:79:A:LEU:HD23	1:79:A:LEU:HA	4	0.79
(1,2579)	1:79:A:LEU:HD22	1:79:A:LEU:HA	15	0.79
(1,2579)	1:79:A:LEU:HD22	1:79:A:LEU:HA	19	0.79
(1,2366)	1:42:A:GLU:HG3	1:38:A:VAL:HG13	7	0.79
(1,2352)	1:130:A:VAL:HG11	1:133:A:GLU:HG2	3	0.79
(1,2313)	1:168:A:GLN:HG2	1:164:A:ILE:HG22	10	0.79
(1,2313)	1:168:A:GLN:HG2	1:164:A:ILE:HG21	18	0.79
(1,2187)	1:93:A:LEU:HD21	1:125:A:LEU:HD22	14	0.79
(1,2180)	1:80:A:LYS:HD2	1:80:A:LYS:HB2	19	0.79
(1,2179)	1:80:A:LYS:HD3	1:80:A:LYS:HB2	20	0.79
(1,2160)	1:107:A:LYS:HD3	1:109:A:ILE:HG22	17	0.79
(1,2149)	1:168:A:GLN:HB3	1:165:A:GLN:HA	16	0.79
(1,2046)	1:79:A:LEU:HD11	1:100:A:PHE:HA	2	0.79
(1,2024)	1:94:A:LEU:HD22	1:61:A:PHE:HE1	13	0.79
(1,2014)	1:93:A:LEU:HD13	1:98:A:LEU:HD22	7	0.79
(1,1988)	1:174:A:LEU:HD12	1:95:A:THR:HG23	17	0.79
(1,1933)	1:70:A:LYS:HG3	1:36:A:LYS:HE2	15	0.79
(1,1882)	1:66:A:LEU:HD21	1:61:A:PHE:HE1	4	0.79
(1,1882)	1:66:A:LEU:HD23	1:61:A:PHE:HE1	5	0.79
(1,1882)	1:66:A:LEU:HD22	1:61:A:PHE:HE1	17	0.79
(1,1778)	1:89:A:VAL:HG12	1:100:A:PHE:HD1	3	0.79
(1,1762)	1:99:A:VAL:HG12	1:66:A:LEU:HD12	15	0.79
(1,1762)	1:99:A:VAL:HG13	1:66:A:LEU:HD13	19	0.79
(1,1760)	1:99:A:VAL:HG13	1:101:A:LEU:HD11	19	0.79
(1,1739)	1:119:A:VAL:HG12	1:53:A:MET:HB2	9	0.79
(1,1728)	1:31:A:VAL:HG11	1:35:A:GLU:HG3	16	0.79
(1,1712)	1:119:A:VAL:HG23	1:99:A:VAL:HG12	6	0.79
(1,1654)	1:140:A:ILE:HG23	1:126:A:ILE:HG13	11	0.79
(1,1654)	1:140:A:ILE:HG21	1:126:A:ILE:HG13	18	0.79
(1,1598)	1:149:A:MET:HE1	1:126:A:ILE:HD12	19	0.79
(1,1546)	1:120:A:ILE:HD11	1:98:A:LEU:HB2	8	0.79
(1,1498)	1:54:A:ARG:H	1:54:A:ARG:HG2	3	0.79
(1,1467)	1:10:A:GLN:H	1:10:A:GLN:HB2	12	0.79
(1,974)	1:107:A:LYS:H	1:107:A:LYS:HB2	5	0.79
(1,764)	1:80:A:LYS:H	1:80:A:LYS:HD3	14	0.79
(1,764)	1:80:A:LYS:H	1:80:A:LYS:HD3	15	0.79
(1,764)	1:80:A:LYS:H	1:80:A:LYS:HD3	17	0.79
(1,764)	1:80:A:LYS:H	1:80:A:LYS:HD3	19	0.79
(1,497)	1:139:A:LEU:HA	1:128:A:ARG:HG3	16	0.79
(1,497)	1:139:A:LEU:HA	1:128:A:ARG:HG3	18	0.79
(1,472)	1:135:A:LYS:HE2	1:135:A:LYS:HB3	9	0.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,463)	1:139:A:LEU:HD13	1:120:A:ILE:H	20	0.79
(1,462)	1:94:A:LEU:HD23	1:93:A:LEU:H	9	0.79
(1,453)	1:92:A:VAL:HG13	1:43:A:ILE:HG12	11	0.79
(1,453)	1:92:A:VAL:HG11	1:43:A:ILE:HG12	16	0.79
(1,443)	1:21:A:LYS:HE3	1:20:A:VAL:HG23	2	0.79
(1,410)	1:29:A:SER:HA	1:30:A:LYS:HB3	10	0.79
(1,410)	1:29:A:SER:HA	1:30:A:LYS:HB3	13	0.79
(1,318)	1:125:A:LEU:HA	1:126:A:ILE:HG22	2	0.79
(1,318)	1:125:A:LEU:HA	1:126:A:ILE:HG23	8	0.79
(1,318)	1:125:A:LEU:HA	1:126:A:ILE:HG22	12	0.79
(1,163)	1:40:A:LEU:HD13	1:44:A:TYR:HB2	2	0.79
(1,163)	1:40:A:LEU:HD11	1:44:A:TYR:HB2	3	0.79
(1,159)	1:71:A:LEU:HD13	1:94:A:LEU:HA	17	0.79
(1,104)	1:167:A:ILE:HG21	1:171:A:ILE:H	1	0.79
(1,104)	1:167:A:ILE:HG23	1:171:A:ILE:H	10	0.79
(1,104)	1:167:A:ILE:HG23	1:171:A:ILE:H	18	0.79
(1,101)	1:164:A:ILE:HD11	1:129:A:GLU:HB3	3	0.79
(1,101)	1:164:A:ILE:HD13	1:129:A:GLU:HB3	5	0.79
(1,62)	1:4:A:LYS:H	1:5:A:ASP:HB2	15	0.79
(1,16)	1:174:A:LEU:H	1:173:A:THR:HG23	14	0.79
(1,16)	1:174:A:LEU:H	1:173:A:THR:HG22	20	0.79
(2,27)	1:171:A:ILE:H	1:167:A:ILE:O	8	0.78
(2,27)	1:171:A:ILE:H	1:167:A:ILE:O	13	0.78
(2,16)	1:137:A:LEU:H	1:135:A:LYS:O	3	0.78
(2,16)	1:137:A:LEU:H	1:135:A:LYS:O	5	0.78
(2,16)	1:137:A:LEU:H	1:135:A:LYS:O	10	0.78
(2,12)	1:99:A:VAL:H	1:92:A:VAL:O	11	0.78
(2,4)	1:79:A:LEU:H	1:87:A:LYS:O	20	0.78
(2,3)	1:78:A:PHE:H	1:153:A:HIS:O	8	0.78
(2,3)	1:78:A:PHE:H	1:153:A:HIS:O	16	0.78
(1,3340)	1:107:A:LYS:HG3	1:108:A:TYR:HB3	12	0.78
(1,3325)	1:112:A:SER:HA	1:53:A:MET:HE2	7	0.78
(1,3254)	1:99:A:VAL:HG13	1:119:A:VAL:HA	9	0.78
(1,3254)	1:99:A:VAL:HG12	1:119:A:VAL:HA	11	0.78
(1,3224)	1:79:A:LEU:H	1:79:A:LEU:HD21	4	0.78
(1,3224)	1:79:A:LEU:H	1:79:A:LEU:HD22	6	0.78
(1,3223)	1:79:A:LEU:HD21	1:152:A:VAL:H	12	0.78
(1,3107)	1:36:A:LYS:HG3	1:36:A:LYS:HE2	4	0.78
(1,3107)	1:36:A:LYS:HG3	1:36:A:LYS:HE2	20	0.78
(1,3078)	1:134:A:GLU:HG3	1:134:A:GLU:HA	12	0.78
(1,2959)	1:110:A:PHE:HB2	1:119:A:VAL:HG12	11	0.78
(1,2898)	1:149:A:MET:HB3	1:138:A:PHE:HD1	12	0.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2830)	1:97:A:ILE:HG21	1:119:A:VAL:HA	5	0.78
(1,2830)	1:97:A:ILE:HG22	1:119:A:VAL:HA	10	0.78
(1,2660)	1:130:A:VAL:HG23	1:138:A:PHE:HA	10	0.78
(1,2642)	1:85:A:ARG:HG3	1:85:A:ARG:HA	12	0.78
(1,2629)	1:137:A:LEU:HA	1:130:A:VAL:HG21	20	0.78
(1,2579)	1:79:A:LEU:HD23	1:79:A:LEU:HA	5	0.78
(1,2579)	1:79:A:LEU:HD21	1:79:A:LEU:HA	6	0.78
(1,2579)	1:79:A:LEU:HD22	1:79:A:LEU:HA	11	0.78
(1,2579)	1:79:A:LEU:HD23	1:79:A:LEU:HA	13	0.78
(1,2579)	1:79:A:LEU:HD21	1:79:A:LEU:HA	14	0.78
(1,2579)	1:79:A:LEU:HD21	1:79:A:LEU:HA	20	0.78
(1,2419)	1:106:A:GLN:HG3	1:105:A:ASP:HB3	3	0.78
(1,2304)	1:123:A:LYS:HB3	1:123:A:LYS:HE2	15	0.78
(1,2195)	1:35:A:GLU:HB3	1:32:A:ALA:HB2	11	0.78
(1,2195)	1:35:A:GLU:HB3	1:32:A:ALA:HB2	13	0.78
(1,2180)	1:80:A:LYS:HD2	1:80:A:LYS:HB2	6	0.78
(1,2180)	1:80:A:LYS:HD2	1:80:A:LYS:HB2	10	0.78
(1,2180)	1:80:A:LYS:HD2	1:80:A:LYS:HB2	13	0.78
(1,2180)	1:80:A:LYS:HD2	1:80:A:LYS:HB2	16	0.78
(1,2140)	1:56:A:LYS:HD2	1:121:A:SER:HB3	20	0.78
(1,2123)	1:137:A:LEU:HD11	1:152:A:VAL:HB	8	0.78
(1,2090)	1:128:A:ARG:HG2	1:140:A:ILE:HD12	18	0.78
(1,2046)	1:79:A:LEU:HD13	1:100:A:PHE:HA	16	0.78
(1,2014)	1:93:A:LEU:HD12	1:98:A:LEU:HD22	19	0.78
(1,1988)	1:174:A:LEU:HD11	1:95:A:THR:HG21	8	0.78
(1,1867)	1:19:A:LEU:HD23	1:19:A:LEU:HA	8	0.78
(1,1851)	1:170:A:THR:HG23	1:95:A:THR:HB	5	0.78
(1,1832)	1:118:A:THR:HG22	1:113:A:LEU:HB3	11	0.78
(1,1778)	1:89:A:VAL:HG13	1:100:A:PHE:HD1	10	0.78
(1,1762)	1:99:A:VAL:HG13	1:66:A:LEU:HD11	5	0.78
(1,1762)	1:99:A:VAL:HG13	1:66:A:LEU:HD13	6	0.78
(1,1760)	1:99:A:VAL:HG11	1:101:A:LEU:HD12	6	0.78
(1,1712)	1:119:A:VAL:HG21	1:99:A:VAL:HG12	3	0.78
(1,1654)	1:140:A:ILE:HG22	1:126:A:ILE:HG13	16	0.78
(1,1318)	1:4:A:LYS:H	1:6:A:ASN:HD22	3	0.78
(1,764)	1:80:A:LYS:H	1:80:A:LYS:HD3	3	0.78
(1,764)	1:80:A:LYS:H	1:80:A:LYS:HD3	10	0.78
(1,627)	1:98:A:LEU:H	1:97:A:ILE:HG12	19	0.78
(1,497)	1:139:A:LEU:HA	1:128:A:ARG:HG3	11	0.78
(1,443)	1:21:A:LYS:HE2	1:20:A:VAL:HG21	18	0.78
(1,370)	1:18:A:SER:HB2	1:19:A:LEU:HG	5	0.78
(1,348)	1:162:A:SER:HB2	1:161:A:ASN:HB3	18	0.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,318)	1:125:A:LEU:HA	1:126:A:ILE:HG22	3	0.78
(1,318)	1:142:A:MET:HA	1:126:A:ILE:HG22	5	0.78
(1,318)	1:125:A:LEU:HA	1:126:A:ILE:HG22	11	0.78
(1,296)	1:19:A:LEU:HB2	1:15:A:GLN:HA	2	0.78
(1,296)	1:19:A:LEU:HB2	1:15:A:GLN:HA	16	0.78
(1,163)	1:40:A:LEU:HD13	1:44:A:TYR:HB2	9	0.78
(1,155)	1:71:A:LEU:HD23	1:39:A:ARG:HB2	2	0.78
(1,137)	1:67:A:LYS:HG2	1:68:A:ARG:HB2	2	0.78
(1,134)	1:77:A:VAL:HG23	1:163:A:TRP:HZ2	13	0.78
(1,115)	1:86:A:LEU:HD21	1:87:A:LYS:HD2	13	0.78
(1,104)	1:167:A:ILE:HG23	1:171:A:ILE:H	4	0.78
(1,104)	1:167:A:ILE:HG22	1:171:A:ILE:H	16	0.78
(1,97)	1:166:A:ILE:HD11	1:163:A:TRP:HA	2	0.78
(1,62)	1:4:A:LYS:H	1:5:A:ASP:HB2	8	0.78
(1,16)	1:174:A:LEU:H	1:173:A:THR:HG22	19	0.78
(2,18)	1:152:A:VAL:H	1:137:A:LEU:O	18	0.77
(2,15)	1:109:A:ILE:H	1:102:A:GLN:O	1	0.77
(2,15)	1:109:A:ILE:H	1:102:A:GLN:O	5	0.77
(2,12)	1:99:A:VAL:H	1:92:A:VAL:O	9	0.77
(2,12)	1:99:A:VAL:H	1:92:A:VAL:O	14	0.77
(2,3)	1:78:A:PHE:H	1:153:A:HIS:O	14	0.77
(1,3340)	1:107:A:LYS:HG3	1:108:A:TYR:HB3	18	0.77
(1,3340)	1:107:A:LYS:HG3	1:108:A:TYR:HB3	19	0.77
(1,3260)	1:171:A:ILE:HA	1:125:A:LEU:HD12	4	0.77
(1,3157)	1:22:A:ASP:HB2	1:22:A:ASP:HA	13	0.77
(1,3147)	1:5:A:ASP:HB3	1:8:A:VAL:HG21	12	0.77
(1,3142)	1:89:A:VAL:HG13	1:87:A:LYS:HE3	14	0.77
(1,3107)	1:36:A:LYS:HG3	1:36:A:LYS:HE2	3	0.77
(1,3107)	1:36:A:LYS:HG3	1:36:A:LYS:HE2	17	0.77
(1,2989)	1:43:A:ILE:HA	1:43:A:ILE:HD11	12	0.77
(1,2989)	1:43:A:ILE:HA	1:43:A:ILE:HD11	17	0.77
(1,2959)	1:110:A:PHE:HB2	1:119:A:VAL:HG11	1	0.77
(1,2916)	1:141:A:SER:HB3	1:120:A:ILE:HG23	17	0.77
(1,2898)	1:149:A:MET:HB3	1:138:A:PHE:HD1	9	0.77
(1,2890)	1:47:A:THR:HG21	1:108:A:TYR:HB3	16	0.77
(1,2836)	1:141:A:SER:HB2	1:147:A:PRO:HB2	5	0.77
(1,2830)	1:97:A:ILE:HG23	1:119:A:VAL:HA	6	0.77
(1,2739)	1:123:A:LYS:HD3	1:123:A:LYS:HA	12	0.77
(1,2707)	1:46:A:LYS:HG2	1:46:A:LYS:HA	19	0.77
(1,2660)	1:130:A:VAL:HG22	1:138:A:PHE:HA	12	0.77
(1,2642)	1:85:A:ARG:HG3	1:85:A:ARG:HA	4	0.77
(1,2642)	1:85:A:ARG:HG3	1:85:A:ARG:HA	8	0.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2642)	1:85:A:ARG:HG3	1:85:A:ARG:HA	15	0.77
(1,2642)	1:85:A:ARG:HG3	1:85:A:ARG:HA	19	0.77
(1,2594)	1:14:A:ALA:HA	1:19:A:LEU:HB2	4	0.77
(1,2579)	1:79:A:LEU:HD23	1:79:A:LEU:HA	9	0.77
(1,2579)	1:79:A:LEU:HD23	1:79:A:LEU:HA	16	0.77
(1,2469)	1:22:A:ASP:HB2	1:24:A:ILE:HG12	4	0.77
(1,2419)	1:106:A:GLN:HG3	1:105:A:ASP:HB3	12	0.77
(1,2352)	1:130:A:VAL:HG13	1:133:A:GLU:HG2	19	0.77
(1,2313)	1:168:A:GLN:HG2	1:164:A:ILE:HG22	19	0.77
(1,2196)	1:35:A:GLU:HB2	1:38:A:VAL:HG21	2	0.77
(1,2180)	1:80:A:LYS:HD2	1:80:A:LYS:HB2	4	0.77
(1,2179)	1:80:A:LYS:HD3	1:80:A:LYS:HB2	14	0.77
(1,2160)	1:107:A:LYS:HD3	1:109:A:ILE:HG21	2	0.77
(1,2160)	1:107:A:LYS:HD3	1:109:A:ILE:HG23	11	0.77
(1,2149)	1:168:A:GLN:HB3	1:165:A:GLN:HA	8	0.77
(1,2149)	1:168:A:GLN:HB3	1:165:A:GLN:HA	12	0.77
(1,2116)	1:176:A:ARG:HG3	1:11:A:GLU:HB3	3	0.77
(1,2046)	1:79:A:LEU:HD12	1:100:A:PHE:HA	8	0.77
(1,2014)	1:93:A:LEU:HD11	1:98:A:LEU:HD23	14	0.77
(1,2014)	1:93:A:LEU:HD11	1:98:A:LEU:HD23	16	0.77
(1,1988)	1:174:A:LEU:HD12	1:95:A:THR:HG21	16	0.77
(1,1972)	1:66:A:LEU:HD12	1:101:A:LEU:HD11	18	0.77
(1,1965)	1:46:A:LYS:HG3	1:108:A:TYR:HE2	8	0.77
(1,1939)	1:50:A:LYS:HG3	1:60:A:MET:HE3	20	0.77
(1,1904)	1:86:A:LEU:HD13	1:153:A:HIS:HD2	3	0.77
(1,1882)	1:66:A:LEU:HD22	1:61:A:PHE:HE1	15	0.77
(1,1851)	1:170:A:THR:HG22	1:95:A:THR:HB	13	0.77
(1,1851)	1:170:A:THR:HG22	1:95:A:THR:HB	14	0.77
(1,1799)	1:127:A:VAL:HG11	1:137:A:LEU:HD23	14	0.77
(1,1778)	1:89:A:VAL:HG11	1:100:A:PHE:HD1	2	0.77
(1,1762)	1:99:A:VAL:HG12	1:66:A:LEU:HD11	2	0.77
(1,1762)	1:99:A:VAL:HG11	1:66:A:LEU:HD13	10	0.77
(1,1762)	1:99:A:VAL:HG13	1:66:A:LEU:HD12	14	0.77
(1,1598)	1:149:A:MET:HE1	1:126:A:ILE:HD12	1	0.77
(1,1598)	1:149:A:MET:HE2	1:126:A:ILE:HD12	2	0.77
(1,1598)	1:149:A:MET:HE3	1:126:A:ILE:HD12	8	0.77
(1,1464)	1:180:A:GLU:H	1:180:A:GLU:HG2	6	0.77
(1,1410)	1:172:A:ASN:HD22	1:168:A:GLN:HG3	15	0.77
(1,1378)	1:41:A:ASN:HD22	1:45:A:THR:HG23	11	0.77
(1,1151)	1:175:A:ASN:H	1:174:A:LEU:HD21	12	0.77
(1,764)	1:80:A:LYS:H	1:80:A:LYS:HD3	11	0.77
(1,764)	1:80:A:LYS:H	1:80:A:LYS:HD3	16	0.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,764)	1:80:A:LYS:H	1:80:A:LYS:HD3	18	0.77
(1,497)	1:139:A:LEU:HA	1:128:A:ARG:HG3	20	0.77
(1,489)	1:70:A:LYS:HB3	1:36:A:LYS:HE2	3	0.77
(1,453)	1:92:A:VAL:HG11	1:43:A:ILE:HG12	7	0.77
(1,439)	1:35:A:GLU:HB2	1:31:A:VAL:HG11	5	0.77
(1,439)	1:35:A:GLU:HB2	1:31:A:VAL:HG13	10	0.77
(1,419)	1:117:A:SER:HB3	1:120:A:ILE:HD13	10	0.77
(1,410)	1:29:A:SER:HA	1:30:A:LYS:HB3	2	0.77
(1,346)	1:159:A:GLU:HB3	1:162:A:SER:HB3	17	0.77
(1,318)	1:125:A:LEU:HA	1:126:A:ILE:HG21	1	0.77
(1,318)	1:125:A:LEU:HA	1:126:A:ILE:HG22	14	0.77
(1,299)	1:85:A:ARG:HD3	1:84:A:GLY:HA2	4	0.77
(1,276)	1:22:A:ASP:HB2	1:21:A:LYS:HG3	3	0.77
(1,226)	1:85:A:ARG:HB2	1:85:A:ARG:HD2	6	0.77
(1,208)	1:93:A:LEU:HD23	1:73:A:ARG:HB2	10	0.77
(1,177)	1:124:A:LYS:HG3	1:124:A:LYS:HE2	17	0.77
(1,163)	1:40:A:LEU:HD13	1:44:A:TYR:HB2	10	0.77
(1,163)	1:40:A:LEU:HD11	1:44:A:TYR:HB2	19	0.77
(1,155)	1:71:A:LEU:HD22	1:39:A:ARG:HB2	9	0.77
(1,104)	1:167:A:ILE:HG23	1:171:A:ILE:H	2	0.77
(1,97)	1:166:A:ILE:HD13	1:163:A:TRP:HA	17	0.77
(1,87)	1:9:A:GLU:H	1:8:A:VAL:HG13	19	0.77
(1,47)	1:175:A:ASN:H	1:173:A:THR:HG23	12	0.77
(1,16)	1:174:A:LEU:H	1:173:A:THR:HG21	10	0.77
(1,9)	1:98:A:LEU:H	1:120:A:ILE:HD11	5	0.77
(1,9)	1:98:A:LEU:H	1:120:A:ILE:HG21	15	0.77
(2,27)	1:171:A:ILE:H	1:167:A:ILE:O	18	0.76
(2,25)	1:168:A:GLN:H	1:164:A:ILE:O	6	0.76
(2,19)	1:153:A:HIS:H	1:78:A:PHE:O	8	0.76
(2,12)	1:99:A:VAL:H	1:92:A:VAL:O	16	0.76
(2,12)	1:99:A:VAL:H	1:92:A:VAL:O	17	0.76
(2,3)	1:78:A:PHE:H	1:153:A:HIS:O	18	0.76
(1,3448)	1:34:A:TYR:HD1	1:38:A:VAL:HG21	8	0.76
(1,3394)	1:134:A:GLU:HG2	1:157:A:LYS:HG3	18	0.76
(1,3340)	1:107:A:LYS:HG3	1:108:A:TYR:HB3	5	0.76
(1,3340)	1:107:A:LYS:HG3	1:108:A:TYR:HB3	13	0.76
(1,3340)	1:107:A:LYS:HG3	1:108:A:TYR:HB3	16	0.76
(1,3340)	1:107:A:LYS:HG3	1:108:A:TYR:HB3	17	0.76
(1,3325)	1:112:A:SER:HA	1:53:A:MET:HE3	18	0.76
(1,3241)	1:113:A:LEU:HD12	1:113:A:LEU:H	3	0.76
(1,3241)	1:113:A:LEU:HD12	1:113:A:LEU:H	4	0.76
(1,3241)	1:113:A:LEU:HD13	1:113:A:LEU:H	11	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3224)	1:79:A:LEU:H	1:79:A:LEU:HD22	8	0.76
(1,3147)	1:5:A:ASP:HB3	1:8:A:VAL:HG23	5	0.76
(1,2989)	1:43:A:ILE:HA	1:43:A:ILE:HD11	1	0.76
(1,2989)	1:43:A:ILE:HA	1:43:A:ILE:HD13	3	0.76
(1,2989)	1:43:A:ILE:HA	1:43:A:ILE:HD13	6	0.76
(1,2989)	1:43:A:ILE:HA	1:43:A:ILE:HD11	19	0.76
(1,2969)	1:176:A:ARG:HA	1:176:A:ARG:HG2	5	0.76
(1,2963)	1:65:A:ASP:HB3	1:66:A:LEU:HB3	13	0.76
(1,2959)	1:110:A:PHE:HB2	1:119:A:VAL:HG11	10	0.76
(1,2917)	1:141:A:SER:HB3	1:140:A:ILE:HG22	11	0.76
(1,2898)	1:149:A:MET:HB3	1:138:A:PHE:HD1	3	0.76
(1,2890)	1:47:A:THR:HG23	1:108:A:TYR:HB3	17	0.76
(1,2739)	1:123:A:LYS:HD3	1:123:A:LYS:HA	9	0.76
(1,2579)	1:79:A:LEU:HD23	1:79:A:LEU:HA	3	0.76
(1,2530)	1:125:A:LEU:HB3	1:167:A:ILE:HG21	8	0.76
(1,2530)	1:125:A:LEU:HB3	1:167:A:ILE:HG21	18	0.76
(1,2352)	1:130:A:VAL:HG11	1:133:A:GLU:HG2	15	0.76
(1,2313)	1:168:A:GLN:HG2	1:164:A:ILE:HG21	16	0.76
(1,2304)	1:123:A:LYS:HB3	1:123:A:LYS:HE2	6	0.76
(1,2249)	1:53:A:MET:HG2	1:119:A:VAL:HG21	7	0.76
(1,2249)	1:53:A:MET:HG2	1:119:A:VAL:HG23	19	0.76
(1,2195)	1:35:A:GLU:HB3	1:32:A:ALA:HB3	4	0.76
(1,2195)	1:35:A:GLU:HB3	1:32:A:ALA:HB2	12	0.76
(1,2180)	1:80:A:LYS:HD2	1:80:A:LYS:HB2	1	0.76
(1,2180)	1:80:A:LYS:HD2	1:80:A:LYS:HB2	17	0.76
(1,2179)	1:80:A:LYS:HD3	1:80:A:LYS:HB2	3	0.76
(1,2179)	1:80:A:LYS:HD3	1:80:A:LYS:HB2	9	0.76
(1,2179)	1:80:A:LYS:HD3	1:80:A:LYS:HB2	15	0.76
(1,2024)	1:94:A:LEU:HD21	1:61:A:PHE:HE1	1	0.76
(1,2019)	1:170:A:THR:HG23	1:93:A:LEU:HD13	9	0.76
(1,1977)	1:101:A:LEU:HD12	1:110:A:PHE:HA	7	0.76
(1,1955)	1:66:A:LEU:HD12	1:99:A:VAL:HB	1	0.76
(1,1955)	1:66:A:LEU:HD13	1:99:A:VAL:HB	19	0.76
(1,1867)	1:19:A:LEU:HD23	1:19:A:LEU:HA	20	0.76
(1,1851)	1:170:A:THR:HG22	1:95:A:THR:HB	6	0.76
(1,1851)	1:170:A:THR:HG21	1:95:A:THR:HB	20	0.76
(1,1832)	1:118:A:THR:HG23	1:113:A:LEU:HB3	3	0.76
(1,1778)	1:89:A:VAL:HG13	1:100:A:PHE:HD1	9	0.76
(1,1760)	1:99:A:VAL:HG11	1:101:A:LEU:HD13	4	0.76
(1,1760)	1:99:A:VAL:HG11	1:101:A:LEU:HD11	11	0.76
(1,1760)	1:99:A:VAL:HG11	1:101:A:LEU:HD12	14	0.76
(1,1739)	1:119:A:VAL:HG12	1:53:A:MET:HB2	4	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1739)	1:119:A:VAL:HG12	1:53:A:MET:HB2	17	0.76
(1,1728)	1:31:A:VAL:HG11	1:35:A:GLU:HG3	5	0.76
(1,1654)	1:140:A:ILE:HG21	1:126:A:ILE:HG13	9	0.76
(1,1599)	1:149:A:MET:HE1	1:149:A:MET:HB2	7	0.76
(1,1599)	1:149:A:MET:HE3	1:149:A:MET:HB2	17	0.76
(1,1598)	1:149:A:MET:HE3	1:126:A:ILE:HD13	13	0.76
(1,1563)	1:97:A:ILE:HD13	1:61:A:PHE:HD1	1	0.76
(1,1563)	1:97:A:ILE:HD13	1:61:A:PHE:HD1	2	0.76
(1,1549)	1:120:A:ILE:HD13	1:120:A:ILE:HB	16	0.76
(1,1504)	1:163:A:TRP:HE1	1:75:A:GLY:HA2	7	0.76
(1,1498)	1:54:A:ARG:H	1:54:A:ARG:HG2	10	0.76
(1,1497)	1:54:A:ARG:H	1:54:A:ARG:HB2	20	0.76
(1,1245)	1:106:A:GLN:H	1:103:A:GLU:HG3	5	0.76
(1,1174)	1:68:A:ARG:H	1:68:A:ARG:HG2	7	0.76
(1,943)	1:178:A:GLU:H	1:178:A:GLU:HG2	12	0.76
(1,764)	1:80:A:LYS:H	1:80:A:LYS:HD3	6	0.76
(1,497)	1:139:A:LEU:HA	1:128:A:ARG:HG3	4	0.76
(1,497)	1:139:A:LEU:HA	1:128:A:ARG:HG3	9	0.76
(1,497)	1:139:A:LEU:HA	1:128:A:ARG:HG3	12	0.76
(1,497)	1:139:A:LEU:HA	1:128:A:ARG:HG3	15	0.76
(1,462)	1:94:A:LEU:HD22	1:93:A:LEU:H	10	0.76
(1,439)	1:35:A:GLU:HB2	1:31:A:VAL:HG11	12	0.76
(1,375)	1:49:A:SER:HB3	1:63:A:LYS:HE3	11	0.76
(1,318)	1:125:A:LEU:HA	1:126:A:ILE:HG21	4	0.76
(1,318)	1:142:A:MET:HA	1:126:A:ILE:HG22	9	0.76
(1,315)	1:82:A:ALA:HA	1:116:A:LYS:HG3	16	0.76
(1,300)	1:73:A:ARG:HD2	1:163:A:TRP:HH2	11	0.76
(1,300)	1:73:A:ARG:HD2	1:163:A:TRP:HH2	14	0.76
(1,300)	1:73:A:ARG:HD2	1:163:A:TRP:HH2	17	0.76
(1,276)	1:22:A:ASP:HB2	1:26:A:ALA:HB1	20	0.76
(1,272)	1:87:A:LYS:HE3	1:79:A:LEU:HB2	15	0.76
(1,226)	1:85:A:ARG:HB2	1:85:A:ARG:HD2	10	0.76
(1,219)	1:42:A:GLU:HB3	1:39:A:ARG:HB2	4	0.76
(1,177)	1:124:A:LYS:HG3	1:124:A:LYS:HE2	3	0.76
(1,177)	1:124:A:LYS:HG3	1:124:A:LYS:HE2	7	0.76
(1,177)	1:124:A:LYS:HG3	1:124:A:LYS:HE3	16	0.76
(1,177)	1:124:A:LYS:HG3	1:124:A:LYS:HE2	18	0.76
(1,177)	1:124:A:LYS:HG3	1:124:A:LYS:HE2	20	0.76
(1,137)	1:67:A:LYS:HG2	1:68:A:ARG:HB2	1	0.76
(1,104)	1:167:A:ILE:HG22	1:171:A:ILE:H	6	0.76
(1,101)	1:164:A:ILE:HD11	1:129:A:GLU:HB3	11	0.76
(1,16)	1:174:A:LEU:H	1:170:A:THR:HG22	1	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,16)	1:174:A:LEU:H	1:173:A:THR:HG21	2	0.76
(1,16)	1:174:A:LEU:H	1:173:A:THR:HG23	11	0.76
(1,15)	1:128:A:ARG:H	1:139:A:LEU:HD21	11	0.76
(1,15)	1:128:A:ARG:H	1:139:A:LEU:HD21	14	0.76
(2,25)	1:168:A:GLN:H	1:164:A:ILE:O	4	0.75
(2,25)	1:168:A:GLN:H	1:164:A:ILE:O	16	0.75
(2,16)	1:137:A:LEU:H	1:135:A:LYS:O	20	0.75
(2,12)	1:99:A:VAL:H	1:92:A:VAL:O	8	0.75
(2,9)	1:93:A:LEU:H	1:73:A:ARG:O	6	0.75
(2,9)	1:93:A:LEU:H	1:73:A:ARG:O	17	0.75
(2,4)	1:79:A:LEU:H	1:87:A:LYS:O	16	0.75
(2,2)	1:72:A:VAL:H	1:93:A:LEU:O	1	0.75
(1,3527)	1:110:A:PHE:HZ	1:61:A:PHE:HD2	8	0.75
(1,3340)	1:107:A:LYS:HG3	1:108:A:TYR:HB3	11	0.75
(1,3224)	1:79:A:LEU:H	1:79:A:LEU:HD23	10	0.75
(1,3107)	1:36:A:LYS:HG3	1:36:A:LYS:HE2	16	0.75
(1,2989)	1:43:A:ILE:HA	1:43:A:ILE:HD11	4	0.75
(1,2989)	1:43:A:ILE:HA	1:43:A:ILE:HD13	5	0.75
(1,2989)	1:43:A:ILE:HA	1:43:A:ILE:HD13	9	0.75
(1,2989)	1:43:A:ILE:HA	1:43:A:ILE:HD12	10	0.75
(1,2989)	1:43:A:ILE:HA	1:43:A:ILE:HD13	14	0.75
(1,2989)	1:43:A:ILE:HA	1:43:A:ILE:HD11	20	0.75
(1,2946)	1:53:A:MET:HE3	1:52:A:ILE:HD12	2	0.75
(1,2946)	1:53:A:MET:HE1	1:52:A:ILE:HD12	17	0.75
(1,2916)	1:141:A:SER:HB3	1:120:A:ILE:HG22	13	0.75
(1,2898)	1:149:A:MET:HB3	1:138:A:PHE:HD1	16	0.75
(1,2836)	1:141:A:SER:HB2	1:147:A:PRO:HB2	11	0.75
(1,2830)	1:97:A:ILE:HG22	1:119:A:VAL:HA	11	0.75
(1,2830)	1:97:A:ILE:HG22	1:119:A:VAL:HA	12	0.75
(1,2830)	1:97:A:ILE:HG21	1:119:A:VAL:HA	17	0.75
(1,2800)	1:52:A:ILE:HG12	1:52:A:ILE:HA	2	0.75
(1,2800)	1:52:A:ILE:HG12	1:52:A:ILE:HA	6	0.75
(1,2800)	1:52:A:ILE:HG12	1:52:A:ILE:HA	9	0.75
(1,2800)	1:52:A:ILE:HG12	1:52:A:ILE:HA	11	0.75
(1,2800)	1:52:A:ILE:HG12	1:52:A:ILE:HA	12	0.75
(1,2800)	1:52:A:ILE:HG12	1:52:A:ILE:HA	17	0.75
(1,2800)	1:52:A:ILE:HG12	1:52:A:ILE:HA	18	0.75
(1,2800)	1:52:A:ILE:HG12	1:52:A:ILE:HA	19	0.75
(1,2773)	1:77:A:VAL:HA	1:152:A:VAL:HG12	6	0.75
(1,2773)	1:77:A:VAL:HA	1:152:A:VAL:HG12	17	0.75
(1,2653)	1:80:A:LYS:HA	1:80:A:LYS:HD3	11	0.75
(1,2642)	1:85:A:ARG:HG3	1:85:A:ARG:HA	9	0.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2530)	1:125:A:LEU:HB3	1:167:A:ILE:HG21	4	0.75
(1,2313)	1:168:A:GLN:HG2	1:164:A:ILE:HG23	1	0.75
(1,2180)	1:80:A:LYS:HD2	1:80:A:LYS:HB2	7	0.75
(1,2180)	1:80:A:LYS:HD2	1:80:A:LYS:HB2	8	0.75
(1,2179)	1:80:A:LYS:HD3	1:80:A:LYS:HB2	11	0.75
(1,2179)	1:80:A:LYS:HD3	1:80:A:LYS:HB2	18	0.75
(1,2160)	1:107:A:LYS:HD3	1:109:A:ILE:HG21	16	0.75
(1,2077)	1:182:A:ILE:HG13	1:182:A:ILE:HG21	6	0.75
(1,2028)	1:124:A:LYS:HG2	1:123:A:LYS:HD3	1	0.75
(1,2024)	1:94:A:LEU:HD23	1:61:A:PHE:HE1	6	0.75
(1,1965)	1:46:A:LYS:HG3	1:108:A:TYR:HE2	9	0.75
(1,1965)	1:46:A:LYS:HG3	1:108:A:TYR:HE2	11	0.75
(1,1965)	1:46:A:LYS:HG3	1:108:A:TYR:HE2	13	0.75
(1,1965)	1:46:A:LYS:HG3	1:108:A:TYR:HE2	16	0.75
(1,1965)	1:46:A:LYS:HG3	1:108:A:TYR:HE2	18	0.75
(1,1949)	1:94:A:LEU:HD22	1:69:A:LYS:HA	19	0.75
(1,1904)	1:86:A:LEU:HD11	1:153:A:HIS:HD2	15	0.75
(1,1832)	1:118:A:THR:HG22	1:113:A:LEU:HB3	14	0.75
(1,1832)	1:118:A:THR:HG21	1:113:A:LEU:HB3	16	0.75
(1,1832)	1:118:A:THR:HG21	1:113:A:LEU:HB3	20	0.75
(1,1794)	1:113:A:LEU:HD22	1:79:A:LEU:HB2	8	0.75
(1,1762)	1:99:A:VAL:HG11	1:66:A:LEU:HD12	16	0.75
(1,1760)	1:99:A:VAL:HG12	1:101:A:LEU:HD11	16	0.75
(1,1742)	1:119:A:VAL:HG11	1:110:A:PHE:HE1	8	0.75
(1,1739)	1:119:A:VAL:HG13	1:53:A:MET:HB2	13	0.75
(1,1728)	1:31:A:VAL:HG13	1:35:A:GLU:HG3	18	0.75
(1,1712)	1:119:A:VAL:HG22	1:99:A:VAL:HG12	19	0.75
(1,1599)	1:149:A:MET:HE3	1:149:A:MET:HB2	4	0.75
(1,1598)	1:149:A:MET:HE2	1:126:A:ILE:HD12	17	0.75
(1,1566)	1:97:A:ILE:HD12	1:121:A:SER:HA	8	0.75
(1,1563)	1:97:A:ILE:HD13	1:61:A:PHE:HD1	15	0.75
(1,1549)	1:120:A:ILE:HD13	1:120:A:ILE:HB	2	0.75
(1,1485)	1:9:A:GLU:H	1:9:A:GLU:HB3	16	0.75
(1,1470)	1:37:A:LYS:H	1:38:A:VAL:HG13	11	0.75
(1,1387)	1:165:A:GLN:HE22	1:165:A:GLN:HG3	1	0.75
(1,1387)	1:165:A:GLN:HE22	1:165:A:GLN:HG3	4	0.75
(1,1387)	1:165:A:GLN:HE22	1:165:A:GLN:HG3	5	0.75
(1,1387)	1:165:A:GLN:HE22	1:165:A:GLN:HG3	6	0.75
(1,1387)	1:165:A:GLN:HE22	1:165:A:GLN:HG3	7	0.75
(1,1387)	1:165:A:GLN:HE22	1:165:A:GLN:HG3	14	0.75
(1,1387)	1:165:A:GLN:HE22	1:165:A:GLN:HG3	16	0.75
(1,1387)	1:165:A:GLN:HE22	1:165:A:GLN:HG3	18	0.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1387)	1:165:A:GLN:HE22	1:165:A:GLN:HG3	20	0.75
(1,1378)	1:41:A:ASN:HD22	1:45:A:THR:HG22	1	0.75
(1,764)	1:80:A:LYS:H	1:80:A:LYS:HD3	4	0.75
(1,764)	1:80:A:LYS:H	1:80:A:LYS:HD3	8	0.75
(1,627)	1:98:A:LEU:H	1:97:A:ILE:HG12	2	0.75
(1,492)	1:95:A:THR:HG21	1:10:A:GLN:HB2	5	0.75
(1,484)	1:67:A:LYS:HD2	1:64:A:GLU:HG2	7	0.75
(1,460)	1:29:A:SER:HA	1:20:A:VAL:HG22	13	0.75
(1,443)	1:21:A:LYS:HE2	1:20:A:VAL:HG21	19	0.75
(1,416)	1:18:A:SER:HA	1:24:A:ILE:HD13	17	0.75
(1,348)	1:162:A:SER:HB2	1:161:A:ASN:HB3	15	0.75
(1,300)	1:73:A:ARG:HD2	1:163:A:TRP:HH2	2	0.75
(1,226)	1:85:A:ARG:HB2	1:85:A:ARG:HD2	16	0.75
(1,219)	1:42:A:GLU:HB3	1:39:A:ARG:HB2	15	0.75
(1,208)	1:93:A:LEU:HD23	1:73:A:ARG:HB2	8	0.75
(1,208)	1:93:A:LEU:HD23	1:73:A:ARG:HB2	13	0.75
(1,177)	1:124:A:LYS:HG3	1:124:A:LYS:HE2	1	0.75
(1,177)	1:124:A:LYS:HG3	1:124:A:LYS:HE2	4	0.75
(1,177)	1:124:A:LYS:HG3	1:124:A:LYS:HE3	8	0.75
(1,175)	1:67:A:LYS:HG3	1:37:A:LYS:HG2	15	0.75
(1,163)	1:40:A:LEU:HD13	1:44:A:TYR:HB2	14	0.75
(1,159)	1:71:A:LEU:HD21	1:94:A:LEU:HA	18	0.75
(1,155)	1:71:A:LEU:HD21	1:39:A:ARG:HB2	3	0.75
(1,155)	1:71:A:LEU:HD23	1:39:A:ARG:HB2	10	0.75
(1,125)	1:62:A:ALA:HB2	1:64:A:GLU:HG2	1	0.75
(1,125)	1:62:A:ALA:HB2	1:64:A:GLU:HG3	4	0.75
(1,115)	1:86:A:LEU:HD21	1:87:A:LYS:HD2	18	0.75
(1,16)	1:174:A:LEU:H	1:170:A:THR:HG23	16	0.75
(1,15)	1:128:A:ARG:H	1:139:A:LEU:HD21	12	0.75
(2,27)	1:171:A:ILE:H	1:167:A:ILE:O	10	0.74
(2,27)	1:171:A:ILE:H	1:167:A:ILE:O	14	0.74
(2,27)	1:171:A:ILE:H	1:167:A:ILE:O	17	0.74
(2,15)	1:109:A:ILE:H	1:102:A:GLN:O	2	0.74
(2,12)	1:99:A:VAL:H	1:92:A:VAL:O	15	0.74
(2,12)	1:99:A:VAL:H	1:92:A:VAL:O	18	0.74
(2,12)	1:99:A:VAL:H	1:92:A:VAL:O	20	0.74
(2,9)	1:93:A:LEU:H	1:73:A:ARG:O	9	0.74
(2,9)	1:93:A:LEU:H	1:73:A:ARG:O	12	0.74
(2,3)	1:78:A:PHE:H	1:153:A:HIS:O	20	0.74
(1,3486)	1:138:A:PHE:HE2	1:128:A:ARG:HB3	15	0.74
(1,3387)	1:94:A:LEU:HD11	1:97:A:ILE:HD13	19	0.74
(1,3361)	1:157:A:LYS:HA	1:160:A:ARG:HB2	6	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3361)	1:157:A:LYS:HA	1:160:A:ARG:HB2	15	0.74
(1,3254)	1:99:A:VAL:HG13	1:119:A:VAL:HA	20	0.74
(1,3231)	1:86:A:LEU:HD22	1:153:A:HIS:HA	16	0.74
(1,3176)	1:159:A:GLU:HG3	1:155:A:SER:HB2	12	0.74
(1,3142)	1:89:A:VAL:HG13	1:87:A:LYS:HE3	2	0.74
(1,3142)	1:89:A:VAL:HG12	1:87:A:LYS:HE3	10	0.74
(1,3142)	1:89:A:VAL:HG13	1:87:A:LYS:HE3	16	0.74
(1,3107)	1:36:A:LYS:HG3	1:36:A:LYS:HE2	15	0.74
(1,2989)	1:43:A:ILE:HA	1:43:A:ILE:HD12	2	0.74
(1,2963)	1:65:A:ASP:HB3	1:66:A:LEU:HB3	10	0.74
(1,2963)	1:65:A:ASP:HB3	1:66:A:LEU:HB3	19	0.74
(1,2959)	1:110:A:PHE:HB2	1:119:A:VAL:HG11	6	0.74
(1,2959)	1:110:A:PHE:HB2	1:119:A:VAL:HG13	16	0.74
(1,2946)	1:53:A:MET:HE3	1:52:A:ILE:HD12	9	0.74
(1,2830)	1:97:A:ILE:HG21	1:119:A:VAL:HA	4	0.74
(1,2800)	1:52:A:ILE:HG12	1:52:A:ILE:HA	1	0.74
(1,2800)	1:52:A:ILE:HG12	1:52:A:ILE:HA	3	0.74
(1,2800)	1:52:A:ILE:HG12	1:52:A:ILE:HA	4	0.74
(1,2800)	1:52:A:ILE:HG12	1:52:A:ILE:HA	5	0.74
(1,2800)	1:52:A:ILE:HG12	1:52:A:ILE:HA	7	0.74
(1,2800)	1:52:A:ILE:HG12	1:52:A:ILE:HA	10	0.74
(1,2800)	1:52:A:ILE:HG12	1:52:A:ILE:HA	13	0.74
(1,2800)	1:52:A:ILE:HG12	1:52:A:ILE:HA	14	0.74
(1,2800)	1:52:A:ILE:HG12	1:52:A:ILE:HA	15	0.74
(1,2800)	1:52:A:ILE:HG12	1:52:A:ILE:HA	16	0.74
(1,2800)	1:52:A:ILE:HG12	1:52:A:ILE:HA	20	0.74
(1,2773)	1:77:A:VAL:HA	1:152:A:VAL:HG12	13	0.74
(1,2732)	1:184:A:SER:HA	1:59:A:GLN:HB2	3	0.74
(1,2728)	1:127:A:VAL:HA	1:137:A:LEU:HD22	19	0.74
(1,2642)	1:85:A:ARG:HG3	1:85:A:ARG:HA	2	0.74
(1,2642)	1:85:A:ARG:HG3	1:85:A:ARG:HA	5	0.74
(1,2313)	1:168:A:GLN:HG2	1:164:A:ILE:HG22	17	0.74
(1,2195)	1:35:A:GLU:HB3	1:32:A:ALA:HB3	7	0.74
(1,2195)	1:35:A:GLU:HB3	1:32:A:ALA:HB1	15	0.74
(1,2189)	1:171:A:ILE:HG21	1:123:A:LYS:HD3	12	0.74
(1,2180)	1:80:A:LYS:HD2	1:80:A:LYS:HB2	2	0.74
(1,2180)	1:80:A:LYS:HD2	1:80:A:LYS:HB2	9	0.74
(1,2180)	1:80:A:LYS:HD2	1:80:A:LYS:HB2	15	0.74
(1,2179)	1:80:A:LYS:HD3	1:80:A:LYS:HB2	2	0.74
(1,2149)	1:168:A:GLN:HB3	1:165:A:GLN:HA	6	0.74
(1,2149)	1:168:A:GLN:HB3	1:165:A:GLN:HA	18	0.74
(1,2116)	1:176:A:ARG:HG3	1:11:A:GLU:HB3	10	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2046)	1:79:A:LEU:HD13	1:100:A:PHE:HA	6	0.74
(1,2046)	1:79:A:LEU:HD13	1:100:A:PHE:HA	9	0.74
(1,1988)	1:174:A:LEU:HD13	1:95:A:THR:HG21	3	0.74
(1,1988)	1:174:A:LEU:HD12	1:95:A:THR:HG21	5	0.74
(1,1965)	1:46:A:LYS:HG3	1:108:A:TYR:HE2	7	0.74
(1,1965)	1:46:A:LYS:HG3	1:108:A:TYR:HE2	14	0.74
(1,1965)	1:46:A:LYS:HG3	1:108:A:TYR:HE2	17	0.74
(1,1859)	1:62:A:ALA:HB2	1:110:A:PHE:HZ	7	0.74
(1,1799)	1:127:A:VAL:HG12	1:137:A:LEU:HD21	4	0.74
(1,1794)	1:113:A:LEU:HD22	1:79:A:LEU:HB2	2	0.74
(1,1778)	1:89:A:VAL:HG11	1:100:A:PHE:HD1	7	0.74
(1,1762)	1:99:A:VAL:HG12	1:66:A:LEU:HD13	17	0.74
(1,1760)	1:99:A:VAL:HG13	1:101:A:LEU:HD11	2	0.74
(1,1760)	1:99:A:VAL:HG12	1:101:A:LEU:HD13	9	0.74
(1,1728)	1:31:A:VAL:HG11	1:35:A:GLU:HG3	3	0.74
(1,1680)	1:130:A:VAL:HG22	1:136:A:GLY:HA2	2	0.74
(1,1654)	1:140:A:ILE:HG23	1:126:A:ILE:HG13	7	0.74
(1,1599)	1:149:A:MET:HE1	1:149:A:MET:HB2	16	0.74
(1,1598)	1:149:A:MET:HE1	1:126:A:ILE:HD11	15	0.74
(1,1598)	1:149:A:MET:HE3	1:126:A:ILE:HD11	16	0.74
(1,1566)	1:97:A:ILE:HD13	1:121:A:SER:HA	20	0.74
(1,1560)	1:97:A:ILE:HD12	1:69:A:LYS:HE3	18	0.74
(1,1549)	1:120:A:ILE:HD11	1:120:A:ILE:HB	9	0.74
(1,1497)	1:54:A:ARG:H	1:54:A:ARG:HB2	7	0.74
(1,1485)	1:9:A:GLU:H	1:9:A:GLU:HB3	4	0.74
(1,1485)	1:9:A:GLU:H	1:9:A:GLU:HB3	5	0.74
(1,1485)	1:9:A:GLU:H	1:9:A:GLU:HB3	14	0.74
(1,1464)	1:180:A:GLU:H	1:180:A:GLU:HG2	5	0.74
(1,1387)	1:165:A:GLN:HE22	1:165:A:GLN:HG3	2	0.74
(1,1387)	1:165:A:GLN:HE22	1:165:A:GLN:HG3	3	0.74
(1,1387)	1:165:A:GLN:HE22	1:165:A:GLN:HG3	8	0.74
(1,1387)	1:165:A:GLN:HE22	1:165:A:GLN:HG3	9	0.74
(1,1387)	1:165:A:GLN:HE22	1:165:A:GLN:HG3	10	0.74
(1,1387)	1:165:A:GLN:HE22	1:165:A:GLN:HG3	12	0.74
(1,1387)	1:165:A:GLN:HE22	1:165:A:GLN:HG3	13	0.74
(1,1387)	1:165:A:GLN:HE22	1:165:A:GLN:HG3	15	0.74
(1,1387)	1:165:A:GLN:HE22	1:165:A:GLN:HG3	17	0.74
(1,1387)	1:165:A:GLN:HE22	1:165:A:GLN:HG3	19	0.74
(1,1151)	1:175:A:ASN:H	1:174:A:LEU:HD23	5	0.74
(1,1151)	1:175:A:ASN:H	1:174:A:LEU:HD22	19	0.74
(1,764)	1:80:A:LYS:H	1:80:A:LYS:HD3	13	0.74
(1,627)	1:98:A:LEU:H	1:97:A:ILE:HG12	18	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,462)	1:94:A:LEU:HD22	1:93:A:LEU:H	7	0.74
(1,445)	1:70:A:LYS:HA	1:70:A:LYS:HD3	12	0.74
(1,443)	1:21:A:LYS:HE2	1:20:A:VAL:HG21	5	0.74
(1,443)	1:21:A:LYS:HE2	1:20:A:VAL:HG21	9	0.74
(1,439)	1:35:A:GLU:HB2	1:31:A:VAL:HG11	3	0.74
(1,410)	1:29:A:SER:HA	1:30:A:LYS:HB3	9	0.74
(1,348)	1:162:A:SER:HB2	1:161:A:ASN:HB3	1	0.74
(1,320)	1:138:A:PHE:HA	1:139:A:LEU:HD22	19	0.74
(1,300)	1:73:A:ARG:HD2	1:163:A:TRP:HH2	6	0.74
(1,297)	1:19:A:LEU:HB3	1:18:A:SER:HB3	18	0.74
(1,291)	1:54:A:ARG:HD2	1:54:A:ARG:HB2	9	0.74
(1,272)	1:87:A:LYS:HE3	1:79:A:LEU:HB2	4	0.74
(1,210)	1:70:A:LYS:HD3	1:8:A:VAL:HG22	20	0.74
(1,177)	1:124:A:LYS:HG3	1:124:A:LYS:HE3	6	0.74
(1,177)	1:124:A:LYS:HG3	1:124:A:LYS:HE3	9	0.74
(1,154)	1:71:A:LEU:HD11	1:74:A:ASP:HB2	16	0.74
(1,104)	1:167:A:ILE:HG23	1:171:A:ILE:H	3	0.74
(1,101)	1:164:A:ILE:HD11	1:129:A:GLU:HB3	6	0.74
(1,47)	1:175:A:ASN:H	1:173:A:THR:HG22	5	0.74
(1,47)	1:175:A:ASN:H	1:173:A:THR:HG23	9	0.74
(1,5)	1:120:A:ILE:H	1:97:A:ILE:HG23	4	0.74
(1,5)	1:120:A:ILE:H	1:97:A:ILE:HG21	10	0.74
(2,27)	1:171:A:ILE:H	1:167:A:ILE:O	20	0.73
(2,25)	1:168:A:GLN:H	1:164:A:ILE:O	7	0.73
(1,3507)	1:43:A:ILE:HD13	1:108:A:TYR:HE2	8	0.73
(1,3486)	1:138:A:PHE:HE2	1:128:A:ARG:HB3	8	0.73
(1,3486)	1:138:A:PHE:HE2	1:128:A:ARG:HB3	12	0.73
(1,3448)	1:34:A:TYR:HD1	1:38:A:VAL:HG23	14	0.73
(1,3387)	1:94:A:LEU:HD11	1:97:A:ILE:HD11	14	0.73
(1,3340)	1:107:A:LYS:HG3	1:108:A:TYR:HB3	4	0.73
(1,3340)	1:107:A:LYS:HG3	1:108:A:TYR:HB3	8	0.73
(1,3260)	1:171:A:ILE:HA	1:125:A:LEU:HD11	3	0.73
(1,3254)	1:99:A:VAL:HG13	1:119:A:VAL:HA	16	0.73
(1,3241)	1:113:A:LEU:HD11	1:113:A:LEU:H	12	0.73
(1,3229)	1:86:A:LEU:HD22	1:153:A:HIS:HE1	19	0.73
(1,3107)	1:36:A:LYS:HG3	1:36:A:LYS:HE2	6	0.73
(1,3013)	1:156:A:SER:HA	1:135:A:LYS:HD3	10	0.73
(1,2989)	1:43:A:ILE:HA	1:43:A:ILE:HD11	13	0.73
(1,2969)	1:176:A:ARG:HA	1:176:A:ARG:HG2	11	0.73
(1,2963)	1:65:A:ASP:HB3	1:66:A:LEU:HB3	2	0.73
(1,2963)	1:65:A:ASP:HB3	1:66:A:LEU:HB3	3	0.73
(1,2963)	1:65:A:ASP:HB3	1:66:A:LEU:HB3	17	0.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2959)	1:110:A:PHE:HB2	1:119:A:VAL:HG13	7	0.73
(1,2959)	1:110:A:PHE:HB2	1:119:A:VAL:HG13	12	0.73
(1,2917)	1:141:A:SER:HB3	1:140:A:ILE:HG23	18	0.73
(1,2890)	1:47:A:THR:HG21	1:108:A:TYR:HB3	14	0.73
(1,2830)	1:97:A:ILE:HG21	1:119:A:VAL:HA	2	0.73
(1,2830)	1:97:A:ILE:HG22	1:119:A:VAL:HA	20	0.73
(1,2800)	1:52:A:ILE:HG12	1:52:A:ILE:HA	8	0.73
(1,2773)	1:77:A:VAL:HA	1:152:A:VAL:HG12	8	0.73
(1,2732)	1:184:A:SER:HA	1:59:A:GLN:HB2	19	0.73
(1,2653)	1:80:A:LYS:HA	1:80:A:LYS:HD3	17	0.73
(1,2653)	1:80:A:LYS:HA	1:80:A:LYS:HD3	18	0.73
(1,2645)	1:142:A:MET:HA	1:147:A:PRO:HG2	16	0.73
(1,2642)	1:85:A:ARG:HG3	1:85:A:ARG:HA	10	0.73
(1,2629)	1:137:A:LEU:HA	1:130:A:VAL:HG21	3	0.73
(1,2581)	1:53:A:MET:HA	1:119:A:VAL:HG12	9	0.73
(1,2313)	1:168:A:GLN:HG2	1:164:A:ILE:HG23	6	0.73
(1,2195)	1:35:A:GLU:HB3	1:32:A:ALA:HB1	1	0.73
(1,2189)	1:171:A:ILE:HG21	1:123:A:LYS:HD3	18	0.73
(1,2180)	1:80:A:LYS:HD2	1:80:A:LYS:HB2	3	0.73
(1,2180)	1:80:A:LYS:HD2	1:80:A:LYS:HB2	14	0.73
(1,2180)	1:80:A:LYS:HD2	1:80:A:LYS:HB2	18	0.73
(1,2179)	1:80:A:LYS:HD3	1:80:A:LYS:HB2	7	0.73
(1,2149)	1:168:A:GLN:HB3	1:165:A:GLN:HA	10	0.73
(1,2149)	1:168:A:GLN:HB3	1:165:A:GLN:HA	11	0.73
(1,2149)	1:168:A:GLN:HB3	1:165:A:GLN:HA	13	0.73
(1,2077)	1:182:A:ILE:HG13	1:182:A:ILE:HG22	7	0.73
(1,2038)	1:123:A:LYS:HG2	1:171:A:ILE:HG12	10	0.73
(1,1988)	1:174:A:LEU:HD12	1:95:A:THR:HG21	4	0.73
(1,1965)	1:46:A:LYS:HG3	1:108:A:TYR:HE2	1	0.73
(1,1965)	1:46:A:LYS:HG3	1:108:A:TYR:HE2	2	0.73
(1,1965)	1:46:A:LYS:HG3	1:108:A:TYR:HE2	5	0.73
(1,1859)	1:62:A:ALA:HB3	1:110:A:PHE:HZ	10	0.73
(1,1851)	1:170:A:THR:HG23	1:95:A:THR:HB	2	0.73
(1,1851)	1:170:A:THR:HG22	1:95:A:THR:HB	15	0.73
(1,1844)	1:170:A:THR:HG23	1:122:A:LEU:HD23	4	0.73
(1,1832)	1:118:A:THR:HG23	1:113:A:LEU:HB3	6	0.73
(1,1832)	1:118:A:THR:HG21	1:113:A:LEU:HB3	15	0.73
(1,1799)	1:127:A:VAL:HG13	1:137:A:LEU:HD22	1	0.73
(1,1799)	1:127:A:VAL:HG13	1:137:A:LEU:HD21	20	0.73
(1,1778)	1:89:A:VAL:HG11	1:100:A:PHE:HD1	17	0.73
(1,1762)	1:99:A:VAL:HG13	1:66:A:LEU:HD13	12	0.73
(1,1760)	1:99:A:VAL:HG11	1:101:A:LEU:HD12	12	0.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1760)	1:99:A:VAL:HG11	1:101:A:LEU:HD12	13	0.73
(1,1739)	1:119:A:VAL:HG13	1:53:A:MET:HB2	5	0.73
(1,1720)	1:154:A:ALA:HB2	1:77:A:VAL:HG12	12	0.73
(1,1654)	1:140:A:ILE:HG21	1:126:A:ILE:HG13	5	0.73
(1,1598)	1:149:A:MET:HE2	1:126:A:ILE:HD13	3	0.73
(1,1598)	1:149:A:MET:HE2	1:126:A:ILE:HD11	4	0.73
(1,1598)	1:149:A:MET:HE1	1:126:A:ILE:HD11	5	0.73
(1,1598)	1:149:A:MET:HE2	1:126:A:ILE:HD11	9	0.73
(1,1563)	1:97:A:ILE:HD12	1:61:A:PHE:HD1	19	0.73
(1,1485)	1:9:A:GLU:H	1:9:A:GLU:HB3	7	0.73
(1,1387)	1:165:A:GLN:HE22	1:165:A:GLN:HG3	11	0.73
(1,1378)	1:41:A:ASN:HD22	1:45:A:THR:HG22	5	0.73
(1,1378)	1:41:A:ASN:HD22	1:45:A:THR:HG21	6	0.73
(1,1151)	1:175:A:ASN:H	1:174:A:LEU:HD23	16	0.73
(1,627)	1:98:A:LEU:H	1:97:A:ILE:HG12	7	0.73
(1,465)	1:38:A:VAL:HG22	1:37:A:LYS:HE2	13	0.73
(1,443)	1:21:A:LYS:HE2	1:20:A:VAL:HG23	15	0.73
(1,318)	1:125:A:LEU:HA	1:126:A:ILE:HG22	15	0.73
(1,318)	1:125:A:LEU:HA	1:126:A:ILE:HG23	16	0.73
(1,300)	1:73:A:ARG:HD2	1:163:A:TRP:HH2	1	0.73
(1,300)	1:73:A:ARG:HD2	1:163:A:TRP:HH2	8	0.73
(1,297)	1:19:A:LEU:HB3	1:18:A:SER:HB2	17	0.73
(1,226)	1:85:A:ARG:HB2	1:85:A:ARG:HD2	1	0.73
(1,226)	1:85:A:ARG:HB2	1:85:A:ARG:HD2	3	0.73
(1,226)	1:85:A:ARG:HB2	1:85:A:ARG:HD2	7	0.73
(1,177)	1:124:A:LYS:HG3	1:124:A:LYS:HE2	13	0.73
(1,177)	1:124:A:LYS:HG3	1:124:A:LYS:HE3	14	0.73
(1,175)	1:67:A:LYS:HG3	1:37:A:LYS:HG2	9	0.73
(1,175)	1:67:A:LYS:HG3	1:37:A:LYS:HG2	14	0.73
(1,163)	1:40:A:LEU:HD13	1:44:A:TYR:HB2	5	0.73
(1,159)	1:71:A:LEU:HD23	1:94:A:LEU:HA	11	0.73
(1,159)	1:71:A:LEU:HD12	1:94:A:LEU:HA	19	0.73
(1,155)	1:71:A:LEU:HD23	1:39:A:ARG:HB2	5	0.73
(1,115)	1:86:A:LEU:HD23	1:87:A:LYS:HD2	8	0.73
(1,101)	1:164:A:ILE:HD12	1:129:A:GLU:HB3	10	0.73
(1,101)	1:164:A:ILE:HD13	1:129:A:GLU:HB3	20	0.73
(1,87)	1:9:A:GLU:H	1:8:A:VAL:HG13	6	0.73
(1,15)	1:128:A:ARG:H	1:139:A:LEU:HD22	3	0.73
(1,15)	1:128:A:ARG:H	1:139:A:LEU:HD21	8	0.73
(1,15)	1:128:A:ARG:H	1:139:A:LEU:HD23	15	0.73
(1,15)	1:128:A:ARG:H	1:139:A:LEU:HD23	16	0.73
(1,15)	1:128:A:ARG:H	1:139:A:LEU:HD22	17	0.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,9)	1:98:A:LEU:H	1:120:A:ILE:HG22	14	0.73
(2,27)	1:171:A:ILE:H	1:167:A:ILE:O	7	0.72
(2,27)	1:171:A:ILE:H	1:167:A:ILE:O	12	0.72
(2,25)	1:168:A:GLN:H	1:164:A:ILE:O	1	0.72
(2,25)	1:168:A:GLN:H	1:164:A:ILE:O	18	0.72
(2,23)	1:163:A:TRP:H	1:159:A:GLU:O	20	0.72
(2,16)	1:137:A:LEU:H	1:135:A:LYS:O	14	0.72
(2,15)	1:109:A:ILE:H	1:102:A:GLN:O	8	0.72
(2,12)	1:99:A:VAL:H	1:92:A:VAL:O	2	0.72
(2,12)	1:99:A:VAL:H	1:92:A:VAL:O	7	0.72
(2,9)	1:93:A:LEU:H	1:73:A:ARG:O	16	0.72
(2,3)	1:78:A:PHE:H	1:153:A:HIS:O	9	0.72
(2,3)	1:78:A:PHE:H	1:153:A:HIS:O	10	0.72
(1,3507)	1:43:A:ILE:HD13	1:108:A:TYR:HE2	11	0.72
(1,3507)	1:43:A:ILE:HD12	1:108:A:TYR:HE2	16	0.72
(1,3486)	1:138:A:PHE:HE2	1:128:A:ARG:HB3	2	0.72
(1,3448)	1:34:A:TYR:HD1	1:38:A:VAL:HG23	18	0.72
(1,3387)	1:94:A:LEU:HD11	1:97:A:ILE:HD11	8	0.72
(1,3229)	1:86:A:LEU:HD22	1:153:A:HIS:HE1	13	0.72
(1,3142)	1:89:A:VAL:HG12	1:87:A:LYS:HE3	5	0.72
(1,3021)	1:140:A:ILE:HD11	1:138:A:PHE:HE2	2	0.72
(1,2989)	1:43:A:ILE:HA	1:43:A:ILE:HD11	7	0.72
(1,2989)	1:43:A:ILE:HA	1:43:A:ILE:HD13	15	0.72
(1,2963)	1:65:A:ASP:HB3	1:66:A:LEU:HB3	14	0.72
(1,2959)	1:110:A:PHE:HB2	1:119:A:VAL:HG12	15	0.72
(1,2951)	1:144:A:MET:HE2	1:144:A:MET:HA	15	0.72
(1,2898)	1:149:A:MET:HB3	1:138:A:PHE:HD1	1	0.72
(1,2837)	1:141:A:SER:HB2	1:144:A:MET:HE1	7	0.72
(1,2833)	1:63:A:LYS:HD2	1:49:A:SER:HB2	4	0.72
(1,2830)	1:97:A:ILE:HG23	1:119:A:VAL:HA	1	0.72
(1,2830)	1:97:A:ILE:HG22	1:119:A:VAL:HA	9	0.72
(1,2830)	1:97:A:ILE:HG21	1:119:A:VAL:HA	14	0.72
(1,2830)	1:97:A:ILE:HG21	1:119:A:VAL:HA	16	0.72
(1,2830)	1:97:A:ILE:HG23	1:119:A:VAL:HA	18	0.72
(1,2821)	1:29:A:SER:HA	1:29:A:SER:HB2	4	0.72
(1,2821)	1:29:A:SER:HA	1:29:A:SER:HB2	5	0.72
(1,2821)	1:29:A:SER:HA	1:29:A:SER:HB2	6	0.72
(1,2821)	1:29:A:SER:HA	1:29:A:SER:HB2	7	0.72
(1,2821)	1:29:A:SER:HA	1:29:A:SER:HB2	8	0.72
(1,2821)	1:29:A:SER:HA	1:29:A:SER:HB2	9	0.72
(1,2821)	1:29:A:SER:HA	1:29:A:SER:HB2	11	0.72
(1,2821)	1:29:A:SER:HA	1:29:A:SER:HB2	12	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2821)	1:29:A:SER:HA	1:29:A:SER:HB2	13	0.72
(1,2821)	1:29:A:SER:HA	1:29:A:SER:HB2	15	0.72
(1,2821)	1:29:A:SER:HA	1:29:A:SER:HB2	17	0.72
(1,2821)	1:29:A:SER:HA	1:29:A:SER:HB2	19	0.72
(1,2821)	1:29:A:SER:HA	1:29:A:SER:HB2	20	0.72
(1,2642)	1:85:A:ARG:HG3	1:85:A:ARG:HA	6	0.72
(1,2642)	1:85:A:ARG:HG3	1:85:A:ARG:HA	16	0.72
(1,2642)	1:85:A:ARG:HG3	1:85:A:ARG:HA	20	0.72
(1,2629)	1:137:A:LEU:HA	1:130:A:VAL:HG23	11	0.72
(1,2621)	1:86:A:LEU:HD12	1:86:A:LEU:HA	2	0.72
(1,2621)	1:86:A:LEU:HD11	1:86:A:LEU:HA	8	0.72
(1,2621)	1:86:A:LEU:HD13	1:86:A:LEU:HA	14	0.72
(1,2621)	1:86:A:LEU:HD13	1:86:A:LEU:HA	19	0.72
(1,2419)	1:106:A:GLN:HG3	1:105:A:ASP:HB3	6	0.72
(1,2392)	1:159:A:GLU:HG3	1:77:A:VAL:HG11	12	0.72
(1,2352)	1:130:A:VAL:HG12	1:133:A:GLU:HG2	2	0.72
(1,2352)	1:130:A:VAL:HG13	1:133:A:GLU:HG2	5	0.72
(1,2282)	1:119:A:VAL:HB	1:97:A:ILE:HG23	15	0.72
(1,2251)	1:11:A:GLU:HB2	1:19:A:LEU:HD13	5	0.72
(1,2226)	1:11:A:GLU:HB3	1:177:A:ASP:HB3	9	0.72
(1,2215)	1:109:A:ILE:HD12	1:104:A:LYS:HD3	12	0.72
(1,2180)	1:80:A:LYS:HD2	1:80:A:LYS:HB2	11	0.72
(1,2180)	1:80:A:LYS:HD2	1:80:A:LYS:HB2	20	0.72
(1,2167)	1:67:A:LYS:HD3	1:67:A:LYS:H	15	0.72
(1,2160)	1:107:A:LYS:HD3	1:109:A:ILE:HG22	20	0.72
(1,2149)	1:168:A:GLN:HB3	1:165:A:GLN:HA	19	0.72
(1,2116)	1:176:A:ARG:HG3	1:11:A:GLU:HB3	6	0.72
(1,2077)	1:182:A:ILE:HG13	1:182:A:ILE:HG21	8	0.72
(1,2028)	1:124:A:LYS:HG2	1:123:A:LYS:HD3	14	0.72
(1,1977)	1:101:A:LEU:HD12	1:110:A:PHE:HA	5	0.72
(1,1972)	1:66:A:LEU:HD12	1:101:A:LEU:HD13	1	0.72
(1,1965)	1:46:A:LYS:HG3	1:108:A:TYR:HE2	3	0.72
(1,1965)	1:46:A:LYS:HG3	1:108:A:TYR:HE2	4	0.72
(1,1965)	1:46:A:LYS:HG3	1:108:A:TYR:HE2	12	0.72
(1,1904)	1:86:A:LEU:HD13	1:153:A:HIS:HD2	9	0.72
(1,1904)	1:86:A:LEU:HD12	1:153:A:HIS:HD2	19	0.72
(1,1859)	1:62:A:ALA:HB2	1:110:A:PHE:HZ	12	0.72
(1,1851)	1:170:A:THR:HG23	1:95:A:THR:HB	7	0.72
(1,1794)	1:113:A:LEU:HD22	1:79:A:LEU:HB2	11	0.72
(1,1778)	1:89:A:VAL:HG13	1:100:A:PHE:HD1	20	0.72
(1,1762)	1:99:A:VAL:HG13	1:66:A:LEU:HD12	4	0.72
(1,1728)	1:31:A:VAL:HG13	1:35:A:GLU:HG3	19	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1654)	1:140:A:ILE:HG23	1:126:A:ILE:HG13	8	0.72
(1,1654)	1:140:A:ILE:HG23	1:126:A:ILE:HG13	20	0.72
(1,1599)	1:149:A:MET:HE1	1:149:A:MET:HB2	13	0.72
(1,1549)	1:120:A:ILE:HD13	1:120:A:ILE:HB	6	0.72
(1,1546)	1:120:A:ILE:HD11	1:98:A:LEU:HB2	12	0.72
(1,1519)	1:109:A:ILE:HD11	1:104:A:LYS:HG2	4	0.72
(1,1519)	1:109:A:ILE:HD12	1:104:A:LYS:HG2	12	0.72
(1,1497)	1:54:A:ARG:H	1:54:A:ARG:HB2	19	0.72
(1,1485)	1:9:A:GLU:H	1:9:A:GLU:HB3	17	0.72
(1,1245)	1:106:A:GLN:H	1:103:A:GLU:HG3	4	0.72
(1,1163)	1:112:A:SER:H	1:111:A:ALA:HB2	5	0.72
(1,1151)	1:175:A:ASN:H	1:174:A:LEU:HD23	14	0.72
(1,1151)	1:175:A:ASN:H	1:174:A:LEU:HD22	17	0.72
(1,1151)	1:175:A:ASN:H	1:174:A:LEU:HD23	20	0.72
(1,988)	1:158:A:GLU:H	1:158:A:GLU:HG3	17	0.72
(1,627)	1:98:A:LEU:H	1:97:A:ILE:HG12	17	0.72
(1,584)	1:185:A:GLU:H	1:184:A:SER:HA	16	0.72
(1,492)	1:95:A:THR:HG22	1:10:A:GLN:HB2	8	0.72
(1,475)	1:109:A:ILE:HD11	1:51:A:SER:HB3	8	0.72
(1,460)	1:29:A:SER:HA	1:20:A:VAL:HG22	16	0.72
(1,439)	1:10:A:GLN:HB3	1:174:A:LEU:HD12	19	0.72
(1,405)	1:43:A:ILE:HD12	1:39:A:ARG:HG3	1	0.72
(1,371)	1:19:A:LEU:HB2	1:18:A:SER:HB2	17	0.72
(1,300)	1:73:A:ARG:HD2	1:163:A:TRP:HH2	5	0.72
(1,226)	1:85:A:ARG:HB2	1:85:A:ARG:HD2	17	0.72
(1,226)	1:85:A:ARG:HB2	1:85:A:ARG:HD2	18	0.72
(1,226)	1:85:A:ARG:HB2	1:85:A:ARG:HD2	20	0.72
(1,177)	1:124:A:LYS:HG3	1:124:A:LYS:HE2	12	0.72
(1,160)	1:71:A:LEU:HD11	1:74:A:ASP:HA	1	0.72
(1,155)	1:71:A:LEU:HD21	1:39:A:ARG:HB2	12	0.72
(1,155)	1:71:A:LEU:HD22	1:39:A:ARG:HB2	14	0.72
(1,125)	1:62:A:ALA:HB2	1:64:A:GLU:HG3	3	0.72
(1,100)	1:171:A:ILE:HD12	1:125:A:LEU:HB3	13	0.72
(1,97)	1:166:A:ILE:HD13	1:163:A:TRP:HA	11	0.72
(1,87)	1:9:A:GLU:H	1:8:A:VAL:HG12	7	0.72
(1,15)	1:128:A:ARG:H	1:139:A:LEU:HD22	1	0.72
(1,12)	1:140:A:ILE:H	1:127:A:VAL:HB	4	0.72
(1,5)	1:120:A:ILE:H	1:97:A:ILE:HG23	1	0.72
(2,27)	1:171:A:ILE:H	1:167:A:ILE:O	4	0.71
(2,27)	1:171:A:ILE:H	1:167:A:ILE:O	6	0.71
(2,25)	1:168:A:GLN:H	1:164:A:ILE:O	19	0.71
(2,19)	1:153:A:HIS:H	1:78:A:PHE:O	11	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,15)	1:109:A:ILE:H	1:102:A:GLN:O	6	0.71
(2,3)	1:78:A:PHE:H	1:153:A:HIS:O	5	0.71
(1,3520)	1:132:A:HIS:HB3	1:132:A:HIS:HD2	9	0.71
(1,3520)	1:132:A:HIS:HB3	1:132:A:HIS:HD2	10	0.71
(1,3520)	1:132:A:HIS:HB3	1:132:A:HIS:HD2	13	0.71
(1,3448)	1:34:A:TYR:HD1	1:38:A:VAL:HG22	7	0.71
(1,3387)	1:94:A:LEU:HD11	1:97:A:ILE:HD12	20	0.71
(1,3361)	1:157:A:LYS:HA	1:160:A:ARG:HB2	2	0.71
(1,3340)	1:107:A:LYS:HG3	1:108:A:TYR:HB3	2	0.71
(1,3340)	1:107:A:LYS:HG3	1:108:A:TYR:HB3	9	0.71
(1,3340)	1:107:A:LYS:HG3	1:108:A:TYR:HB3	15	0.71
(1,3325)	1:112:A:SER:HA	1:53:A:MET:HE1	8	0.71
(1,3263)	1:149:A:MET:HE2	1:142:A:MET:HE1	11	0.71
(1,3013)	1:156:A:SER:HA	1:135:A:LYS:HD3	5	0.71
(1,2963)	1:65:A:ASP:HB3	1:66:A:LEU:HB3	6	0.71
(1,2898)	1:149:A:MET:HB3	1:138:A:PHE:HD1	10	0.71
(1,2821)	1:29:A:SER:HA	1:29:A:SER:HB2	1	0.71
(1,2821)	1:29:A:SER:HA	1:29:A:SER:HB2	14	0.71
(1,2821)	1:29:A:SER:HA	1:29:A:SER:HB2	18	0.71
(1,2773)	1:77:A:VAL:HA	1:152:A:VAL:HG12	5	0.71
(1,2739)	1:123:A:LYS:HD3	1:123:A:LYS:HA	13	0.71
(1,2739)	1:123:A:LYS:HD3	1:123:A:LYS:HA	16	0.71
(1,2653)	1:80:A:LYS:HA	1:80:A:LYS:HD3	1	0.71
(1,2653)	1:80:A:LYS:HA	1:80:A:LYS:HD3	19	0.71
(1,2642)	1:85:A:ARG:HG3	1:85:A:ARG:HA	1	0.71
(1,2642)	1:85:A:ARG:HG3	1:85:A:ARG:HA	7	0.71
(1,2642)	1:85:A:ARG:HG3	1:85:A:ARG:HA	11	0.71
(1,2642)	1:85:A:ARG:HG3	1:85:A:ARG:HA	14	0.71
(1,2621)	1:86:A:LEU:HD11	1:86:A:LEU:HA	3	0.71
(1,2621)	1:86:A:LEU:HD12	1:86:A:LEU:HA	13	0.71
(1,2621)	1:86:A:LEU:HD12	1:86:A:LEU:HA	15	0.71
(1,2621)	1:86:A:LEU:HD13	1:86:A:LEU:HA	17	0.71
(1,2379)	1:178:A:GLU:HG2	1:178:A:GLU:HB2	12	0.71
(1,2313)	1:168:A:GLN:HG2	1:164:A:ILE:HG21	2	0.71
(1,2304)	1:123:A:LYS:HB3	1:123:A:LYS:HE2	17	0.71
(1,2282)	1:119:A:VAL:HB	1:97:A:ILE:HG21	1	0.71
(1,2249)	1:53:A:MET:HG2	1:119:A:VAL:HG23	14	0.71
(1,2195)	1:35:A:GLU:HB3	1:32:A:ALA:HB2	18	0.71
(1,2195)	1:35:A:GLU:HB3	1:32:A:ALA:HB1	19	0.71
(1,2179)	1:80:A:LYS:HD3	1:80:A:LYS:HB2	8	0.71
(1,2167)	1:67:A:LYS:HD3	1:67:A:LYS:H	18	0.71
(1,2077)	1:182:A:ILE:HG13	1:182:A:ILE:HG23	18	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2046)	1:79:A:LEU:HD13	1:100:A:PHE:HA	1	0.71
(1,2019)	1:170:A:THR:HG21	1:93:A:LEU:HD13	14	0.71
(1,2014)	1:93:A:LEU:HD13	1:98:A:LEU:HD23	2	0.71
(1,1988)	1:174:A:LEU:HD12	1:95:A:THR:HG22	2	0.71
(1,1950)	1:94:A:LEU:HD21	1:71:A:LEU:HA	6	0.71
(1,1939)	1:50:A:LYS:HG3	1:60:A:MET:HE2	15	0.71
(1,1926)	1:19:A:LEU:HD11	1:18:A:SER:HB2	11	0.71
(1,1904)	1:86:A:LEU:HD11	1:153:A:HIS:HD2	2	0.71
(1,1867)	1:19:A:LEU:HD21	1:19:A:LEU:HA	16	0.71
(1,1851)	1:170:A:THR:HG21	1:95:A:THR:HB	17	0.71
(1,1832)	1:118:A:THR:HG22	1:113:A:LEU:HB3	1	0.71
(1,1799)	1:127:A:VAL:HG11	1:137:A:LEU:HD23	5	0.71
(1,1799)	1:127:A:VAL:HG11	1:137:A:LEU:HD21	10	0.71
(1,1799)	1:127:A:VAL:HG11	1:137:A:LEU:HD21	17	0.71
(1,1778)	1:89:A:VAL:HG12	1:100:A:PHE:HD1	19	0.71
(1,1760)	1:99:A:VAL:HG13	1:101:A:LEU:HD12	17	0.71
(1,1728)	1:31:A:VAL:HG12	1:35:A:GLU:HG3	14	0.71
(1,1666)	1:97:A:ILE:HG23	1:119:A:VAL:HG23	1	0.71
(1,1654)	1:140:A:ILE:HG21	1:126:A:ILE:HG13	14	0.71
(1,1631)	1:126:A:ILE:HG22	1:126:A:ILE:HG13	6	0.71
(1,1598)	1:149:A:MET:HE3	1:126:A:ILE:HD13	20	0.71
(1,1563)	1:97:A:ILE:HD12	1:61:A:PHE:HD1	5	0.71
(1,1549)	1:120:A:ILE:HD11	1:120:A:ILE:HB	17	0.71
(1,1504)	1:163:A:TRP:HE1	1:75:A:GLY:HA2	17	0.71
(1,1497)	1:54:A:ARG:H	1:54:A:ARG:HB2	16	0.71
(1,1470)	1:37:A:LYS:H	1:38:A:VAL:HG12	15	0.71
(1,1163)	1:112:A:SER:H	1:111:A:ALA:HB2	9	0.71
(1,1163)	1:112:A:SER:H	1:111:A:ALA:HB1	15	0.71
(1,1038)	1:170:A:THR:H	1:170:A:THR:HG22	15	0.71
(1,920)	1:31:A:VAL:H	1:32:A:ALA:HB1	6	0.71
(1,472)	1:135:A:LYS:HE3	1:135:A:LYS:HB3	7	0.71
(1,472)	1:135:A:LYS:HE2	1:135:A:LYS:HB3	14	0.71
(1,465)	1:38:A:VAL:HG22	1:37:A:LYS:HE2	2	0.71
(1,443)	1:21:A:LYS:HE2	1:20:A:VAL:HG21	11	0.71
(1,439)	1:35:A:GLU:HB2	1:31:A:VAL:HG12	8	0.71
(1,405)	1:43:A:ILE:HD12	1:39:A:ARG:HG3	12	0.71
(1,375)	1:49:A:SER:HB3	1:63:A:LYS:HE3	7	0.71
(1,371)	1:19:A:LEU:HB2	1:18:A:SER:HB2	18	0.71
(1,371)	1:19:A:LEU:HB2	1:18:A:SER:HB2	19	0.71
(1,348)	1:162:A:SER:HB2	1:161:A:ASN:HB3	10	0.71
(1,320)	1:138:A:PHE:HA	1:139:A:LEU:HD21	11	0.71
(1,317)	1:14:A:ALA:HA	1:8:A:VAL:HG12	1	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,300)	1:73:A:ARG:HD2	1:163:A:TRP:HH2	7	0.71
(1,296)	1:19:A:LEU:HB2	1:15:A:GLN:HA	7	0.71
(1,294)	1:22:A:ASP:HB2	1:21:A:LYS:HA	17	0.71
(1,226)	1:85:A:ARG:HB2	1:85:A:ARG:HD2	5	0.71
(1,226)	1:85:A:ARG:HB2	1:85:A:ARG:HD2	11	0.71
(1,226)	1:85:A:ARG:HB2	1:85:A:ARG:HD2	14	0.71
(1,175)	1:67:A:LYS:HG3	1:37:A:LYS:HG2	2	0.71
(1,159)	1:71:A:LEU:HD11	1:94:A:LEU:HA	14	0.71
(1,155)	1:71:A:LEU:HD22	1:39:A:ARG:HB2	13	0.71
(1,155)	1:71:A:LEU:HD23	1:39:A:ARG:HB2	15	0.71
(1,155)	1:71:A:LEU:HD21	1:39:A:ARG:HB2	19	0.71
(1,137)	1:67:A:LYS:HG2	1:68:A:ARG:HB2	8	0.71
(1,115)	1:86:A:LEU:HD21	1:87:A:LYS:HD2	15	0.71
(1,100)	1:171:A:ILE:HD11	1:125:A:LEU:HB3	9	0.71
(1,97)	1:166:A:ILE:HD13	1:163:A:TRP:HA	12	0.71
(1,87)	1:9:A:GLU:H	1:8:A:VAL:HG12	20	0.71
(1,47)	1:175:A:ASN:H	1:173:A:THR:HG23	14	0.71
(1,44)	1:117:A:SER:H	1:116:A:LYS:HD3	7	0.71
(1,15)	1:128:A:ARG:H	1:139:A:LEU:HD23	2	0.71
(1,15)	1:128:A:ARG:H	1:139:A:LEU:HD22	18	0.71
(1,5)	1:120:A:ILE:H	1:97:A:ILE:HG22	6	0.71
(2,23)	1:163:A:TRP:H	1:159:A:GLU:O	4	0.7
(2,23)	1:163:A:TRP:H	1:159:A:GLU:O	10	0.7
(2,18)	1:152:A:VAL:H	1:137:A:LEU:O	11	0.7
(1,3520)	1:132:A:HIS:HB3	1:132:A:HIS:HD2	7	0.7
(1,3520)	1:132:A:HIS:HB3	1:132:A:HIS:HD2	17	0.7
(1,3486)	1:138:A:PHE:HE2	1:128:A:ARG:HB3	11	0.7
(1,3387)	1:94:A:LEU:HD11	1:97:A:ILE:HD11	11	0.7
(1,3325)	1:112:A:SER:HA	1:53:A:MET:HE3	9	0.7
(1,3310)	1:45:A:THR:HB	1:42:A:GLU:HB2	16	0.7
(1,3260)	1:171:A:ILE:HA	1:125:A:LEU:HD11	8	0.7
(1,2989)	1:43:A:ILE:HA	1:43:A:ILE:HD13	16	0.7
(1,2963)	1:65:A:ASP:HB3	1:66:A:LEU:HB3	9	0.7
(1,2959)	1:110:A:PHE:HB2	1:119:A:VAL:HG13	19	0.7
(1,2773)	1:77:A:VAL:HA	1:152:A:VAL:HG11	7	0.7
(1,2715)	1:4:A:LYS:HA	1:8:A:VAL:HG12	12	0.7
(1,2653)	1:80:A:LYS:HA	1:80:A:LYS:HD3	3	0.7
(1,2642)	1:85:A:ARG:HG3	1:85:A:ARG:HA	17	0.7
(1,2642)	1:85:A:ARG:HG3	1:85:A:ARG:HA	18	0.7
(1,2621)	1:86:A:LEU:HD13	1:86:A:LEU:HA	1	0.7
(1,2621)	1:86:A:LEU:HD11	1:86:A:LEU:HA	6	0.7
(1,2621)	1:86:A:LEU:HD11	1:86:A:LEU:HA	7	0.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2621)	1:86:A:LEU:HD11	1:86:A:LEU:HA	9	0.7
(1,2621)	1:86:A:LEU:HD12	1:86:A:LEU:HA	10	0.7
(1,2379)	1:178:A:GLU:HG2	1:178:A:GLU:HB2	1	0.7
(1,2379)	1:178:A:GLU:HG2	1:178:A:GLU:HB2	2	0.7
(1,2379)	1:178:A:GLU:HG2	1:178:A:GLU:HB2	3	0.7
(1,2379)	1:178:A:GLU:HG2	1:178:A:GLU:HB2	14	0.7
(1,2379)	1:178:A:GLU:HG2	1:178:A:GLU:HB2	16	0.7
(1,2324)	1:89:A:VAL:HG11	1:87:A:LYS:HB3	11	0.7
(1,2249)	1:53:A:MET:HG2	1:119:A:VAL:HG22	3	0.7
(1,2249)	1:53:A:MET:HG2	1:119:A:VAL:HG21	12	0.7
(1,2180)	1:80:A:LYS:HD2	1:80:A:LYS:HB2	5	0.7
(1,2180)	1:80:A:LYS:HD2	1:80:A:LYS:HB2	12	0.7
(1,2149)	1:168:A:GLN:HB3	1:165:A:GLN:HA	4	0.7
(1,2024)	1:94:A:LEU:HD23	1:61:A:PHE:HE1	8	0.7
(1,2022)	1:93:A:LEU:HD12	1:72:A:VAL:H	18	0.7
(1,1995)	1:174:A:LEU:HD13	1:12:A:ASP:HB2	8	0.7
(1,1965)	1:46:A:LYS:HG3	1:108:A:TYR:HE2	20	0.7
(1,1904)	1:86:A:LEU:HD11	1:153:A:HIS:HD2	16	0.7
(1,1859)	1:62:A:ALA:HB2	1:110:A:PHE:HZ	1	0.7
(1,1859)	1:62:A:ALA:HB1	1:110:A:PHE:HZ	19	0.7
(1,1851)	1:170:A:THR:HG23	1:95:A:THR:HB	4	0.7
(1,1843)	1:40:A:LEU:HD21	1:44:A:TYR:HA	7	0.7
(1,1799)	1:127:A:VAL:HG11	1:137:A:LEU:HD23	16	0.7
(1,1778)	1:89:A:VAL:HG11	1:100:A:PHE:HD1	16	0.7
(1,1720)	1:154:A:ALA:HB3	1:77:A:VAL:HG12	18	0.7
(1,1666)	1:97:A:ILE:HG23	1:119:A:VAL:HG23	8	0.7
(1,1661)	1:120:A:ILE:HG22	1:120:A:ILE:HG12	9	0.7
(1,1654)	1:140:A:ILE:HG22	1:126:A:ILE:HG13	2	0.7
(1,1654)	1:140:A:ILE:HG22	1:126:A:ILE:HG13	12	0.7
(1,1566)	1:97:A:ILE:HD13	1:121:A:SER:HA	16	0.7
(1,1498)	1:54:A:ARG:H	1:54:A:ARG:HG2	1	0.7
(1,1497)	1:54:A:ARG:H	1:54:A:ARG:HB2	11	0.7
(1,1485)	1:9:A:GLU:H	1:9:A:GLU:HB3	18	0.7
(1,1485)	1:9:A:GLU:H	1:9:A:GLU:HB3	20	0.7
(1,1467)	1:10:A:GLN:H	1:10:A:GLN:HB2	4	0.7
(1,1467)	1:10:A:GLN:H	1:10:A:GLN:HB2	8	0.7
(1,1378)	1:41:A:ASN:HD22	1:45:A:THR:HG23	13	0.7
(1,1378)	1:41:A:ASN:HD22	1:45:A:THR:HG21	15	0.7
(1,1184)	1:109:A:ILE:H	1:109:A:ILE:HD12	6	0.7
(1,1184)	1:109:A:ILE:H	1:109:A:ILE:HD11	18	0.7
(1,1163)	1:112:A:SER:H	1:111:A:ALA:HB1	14	0.7
(1,1151)	1:175:A:ASN:H	1:174:A:LEU:HD21	2	0.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1038)	1:170:A:THR:H	1:170:A:THR:HG22	8	0.7
(1,1038)	1:170:A:THR:H	1:170:A:THR:HG21	9	0.7
(1,1038)	1:170:A:THR:H	1:170:A:THR:HG23	18	0.7
(1,443)	1:21:A:LYS:HE3	1:20:A:VAL:HG22	3	0.7
(1,443)	1:21:A:LYS:HE2	1:20:A:VAL:HG22	8	0.7
(1,443)	1:21:A:LYS:HE2	1:20:A:VAL:HG23	16	0.7
(1,439)	1:35:A:GLU:HB2	1:31:A:VAL:HG11	1	0.7
(1,371)	1:19:A:LEU:HB2	1:18:A:SER:HB2	3	0.7
(1,363)	1:37:A:LYS:HA	1:37:A:LYS:HE2	6	0.7
(1,363)	1:37:A:LYS:HA	1:37:A:LYS:HE2	12	0.7
(1,348)	1:162:A:SER:HB2	1:161:A:ASN:HB3	8	0.7
(1,320)	1:138:A:PHE:HA	1:139:A:LEU:HD21	14	0.7
(1,300)	1:73:A:ARG:HD2	1:163:A:TRP:HH2	13	0.7
(1,297)	1:19:A:LEU:HB3	1:18:A:SER:HB2	12	0.7
(1,297)	1:19:A:LEU:HB3	1:18:A:SER:HB2	19	0.7
(1,286)	1:39:A:ARG:HD2	1:71:A:LEU:HD23	14	0.7
(1,229)	1:30:A:LYS:HB3	1:27:A:VAL:HG21	17	0.7
(1,226)	1:85:A:ARG:HB2	1:85:A:ARG:HD2	13	0.7
(1,199)	1:56:A:LYS:HD3	1:56:A:LYS:HB3	13	0.7
(1,159)	1:71:A:LEU:HD23	1:94:A:LEU:HA	16	0.7
(1,155)	1:71:A:LEU:HD22	1:39:A:ARG:HB2	4	0.7
(1,134)	1:77:A:VAL:HG23	1:163:A:TRP:HZ2	17	0.7
(1,101)	1:164:A:ILE:HD13	1:129:A:GLU:HB3	15	0.7
(1,42)	1:76:A:SER:H	1:77:A:VAL:HG21	11	0.7
(1,5)	1:120:A:ILE:H	1:97:A:ILE:HG23	14	0.7
(2,23)	1:163:A:TRP:H	1:159:A:GLU:O	3	0.69
(2,23)	1:163:A:TRP:H	1:159:A:GLU:O	17	0.69
(2,15)	1:109:A:ILE:H	1:102:A:GLN:O	13	0.69
(2,12)	1:99:A:VAL:H	1:92:A:VAL:O	12	0.69
(2,9)	1:93:A:LEU:H	1:73:A:ARG:O	7	0.69
(2,9)	1:93:A:LEU:H	1:73:A:ARG:O	14	0.69
(2,3)	1:78:A:PHE:H	1:153:A:HIS:O	1	0.69
(2,3)	1:78:A:PHE:H	1:153:A:HIS:O	2	0.69
(1,3520)	1:132:A:HIS:HB3	1:132:A:HIS:HD2	3	0.69
(1,3520)	1:132:A:HIS:HB3	1:132:A:HIS:HD2	5	0.69
(1,3520)	1:132:A:HIS:HB3	1:132:A:HIS:HD2	12	0.69
(1,3520)	1:132:A:HIS:HB3	1:132:A:HIS:HD2	14	0.69
(1,3520)	1:132:A:HIS:HB3	1:132:A:HIS:HD2	15	0.69
(1,3520)	1:132:A:HIS:HB3	1:132:A:HIS:HD2	16	0.69
(1,3486)	1:138:A:PHE:HE2	1:128:A:ARG:HB3	17	0.69
(1,3451)	1:66:A:LEU:HB3	1:44:A:TYR:HD1	13	0.69
(1,3341)	1:55:A:MET:HE2	1:61:A:PHE:HB2	4	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3341)	1:55:A:MET:HE1	1:61:A:PHE:HB2	8	0.69
(1,3341)	1:55:A:MET:HE3	1:61:A:PHE:HB2	16	0.69
(1,3325)	1:112:A:SER:HA	1:53:A:MET:HE1	17	0.69
(1,3260)	1:171:A:ILE:HA	1:125:A:LEU:HD12	7	0.69
(1,3260)	1:171:A:ILE:HA	1:125:A:LEU:HD11	14	0.69
(1,3003)	1:150:A:VAL:HG22	1:100:A:PHE:HZ	12	0.69
(1,2995)	1:24:A:ILE:HG13	1:24:A:ILE:HA	13	0.69
(1,2963)	1:65:A:ASP:HB3	1:66:A:LEU:HB3	16	0.69
(1,2946)	1:53:A:MET:HE3	1:52:A:ILE:HD12	5	0.69
(1,2890)	1:47:A:THR:HG22	1:108:A:TYR:HB3	13	0.69
(1,2783)	1:117:A:SER:HA	1:55:A:MET:HB3	10	0.69
(1,2773)	1:77:A:VAL:HA	1:152:A:VAL:HG12	9	0.69
(1,2728)	1:127:A:VAL:HA	1:137:A:LEU:HD21	3	0.69
(1,2720)	1:41:A:ASN:HA	1:44:A:TYR:HE1	3	0.69
(1,2720)	1:41:A:ASN:HA	1:44:A:TYR:HE1	9	0.69
(1,2653)	1:80:A:LYS:HA	1:80:A:LYS:HD3	7	0.69
(1,2653)	1:80:A:LYS:HA	1:80:A:LYS:HD3	15	0.69
(1,2642)	1:85:A:ARG:HG3	1:85:A:ARG:HA	3	0.69
(1,2642)	1:85:A:ARG:HG3	1:85:A:ARG:HA	13	0.69
(1,2629)	1:137:A:LEU:HA	1:130:A:VAL:HG21	12	0.69
(1,2621)	1:86:A:LEU:HD11	1:86:A:LEU:HA	4	0.69
(1,2581)	1:53:A:MET:HA	1:119:A:VAL:HG12	17	0.69
(1,2519)	1:68:A:ARG:HD3	1:68:A:ARG:HA	1	0.69
(1,2384)	1:35:A:GLU:HG3	1:38:A:VAL:HG21	17	0.69
(1,2379)	1:178:A:GLU:HG2	1:178:A:GLU:HB2	4	0.69
(1,2379)	1:178:A:GLU:HG2	1:178:A:GLU:HB2	10	0.69
(1,2379)	1:178:A:GLU:HG2	1:178:A:GLU:HB2	15	0.69
(1,2379)	1:178:A:GLU:HG2	1:178:A:GLU:HB2	19	0.69
(1,2324)	1:89:A:VAL:HG12	1:87:A:LYS:HB3	14	0.69
(1,2309)	1:168:A:GLN:HB3	1:168:A:GLN:HG3	4	0.69
(1,2309)	1:168:A:GLN:HB3	1:168:A:GLN:HG3	10	0.69
(1,2309)	1:168:A:GLN:HB3	1:168:A:GLN:HG3	18	0.69
(1,2309)	1:168:A:GLN:HB3	1:168:A:GLN:HG3	19	0.69
(1,2249)	1:53:A:MET:HG2	1:119:A:VAL:HG21	6	0.69
(1,2196)	1:35:A:GLU:HB2	1:38:A:VAL:HG21	13	0.69
(1,2195)	1:35:A:GLU:HB3	1:32:A:ALA:HB3	6	0.69
(1,2179)	1:80:A:LYS:HD3	1:80:A:LYS:HB2	1	0.69
(1,2167)	1:67:A:LYS:HD3	1:67:A:LYS:H	17	0.69
(1,2160)	1:107:A:LYS:HD3	1:109:A:ILE:HG21	13	0.69
(1,2144)	1:36:A:LYS:HD2	1:36:A:LYS:HB3	1	0.69
(1,2077)	1:182:A:ILE:HG13	1:182:A:ILE:HG21	4	0.69
(1,2077)	1:182:A:ILE:HG13	1:182:A:ILE:HG22	19	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2022)	1:93:A:LEU:HD11	1:72:A:VAL:H	10	0.69
(1,2016)	1:93:A:LEU:HD11	1:98:A:LEU:HG	4	0.69
(1,1988)	1:174:A:LEU:HD11	1:95:A:THR:HG23	10	0.69
(1,1965)	1:46:A:LYS:HG3	1:108:A:TYR:HE2	15	0.69
(1,1939)	1:50:A:LYS:HG3	1:60:A:MET:HE3	3	0.69
(1,1926)	1:19:A:LEU:HD11	1:18:A:SER:HB2	6	0.69
(1,1904)	1:86:A:LEU:HD13	1:153:A:HIS:HD2	4	0.69
(1,1904)	1:86:A:LEU:HD13	1:153:A:HIS:HD2	6	0.69
(1,1867)	1:19:A:LEU:HD22	1:19:A:LEU:HA	15	0.69
(1,1859)	1:62:A:ALA:HB2	1:110:A:PHE:HZ	17	0.69
(1,1859)	1:62:A:ALA:HB1	1:110:A:PHE:HZ	20	0.69
(1,1833)	1:118:A:THR:HG22	1:100:A:PHE:HB3	4	0.69
(1,1832)	1:118:A:THR:HG23	1:113:A:LEU:HB3	5	0.69
(1,1778)	1:89:A:VAL:HG13	1:100:A:PHE:HD1	11	0.69
(1,1728)	1:31:A:VAL:HG11	1:35:A:GLU:HG3	7	0.69
(1,1661)	1:120:A:ILE:HG22	1:120:A:ILE:HG12	16	0.69
(1,1654)	1:140:A:ILE:HG23	1:126:A:ILE:HG13	17	0.69
(1,1598)	1:149:A:MET:HE2	1:126:A:ILE:HD12	14	0.69
(1,1549)	1:120:A:ILE:HD11	1:120:A:ILE:HB	13	0.69
(1,1519)	1:109:A:ILE:HD12	1:104:A:LYS:HG2	9	0.69
(1,1470)	1:37:A:LYS:H	1:38:A:VAL:HG13	8	0.69
(1,1426)	1:181:A:GLY:H	1:180:A:GLU:HB3	10	0.69
(1,1354)	1:15:A:GLN:H	1:15:A:GLN:HB2	14	0.69
(1,1318)	1:4:A:LYS:H	1:6:A:ASN:HD22	14	0.69
(1,1245)	1:106:A:GLN:H	1:103:A:GLU:HG3	7	0.69
(1,1189)	1:64:A:GLU:H	1:64:A:GLU:HB3	1	0.69
(1,1189)	1:64:A:GLU:H	1:64:A:GLU:HB3	8	0.69
(1,1174)	1:68:A:ARG:H	1:68:A:ARG:HG2	4	0.69
(1,1163)	1:112:A:SER:H	1:111:A:ALA:HB1	16	0.69
(1,1163)	1:112:A:SER:H	1:111:A:ALA:HB3	19	0.69
(1,1151)	1:175:A:ASN:H	1:174:A:LEU:HD22	3	0.69
(1,1151)	1:175:A:ASN:H	1:174:A:LEU:HD21	4	0.69
(1,1038)	1:170:A:THR:H	1:170:A:THR:HG23	14	0.69
(1,735)	1:99:A:VAL:H	1:99:A:VAL:HG21	1	0.69
(1,497)	1:139:A:LEU:HA	1:128:A:ARG:HG3	13	0.69
(1,484)	1:67:A:LYS:HD2	1:64:A:GLU:HG2	12	0.69
(1,432)	1:67:A:LYS:HE3	1:44:A:TYR:HD1	1	0.69
(1,419)	1:117:A:SER:HB3	1:120:A:ILE:HD13	8	0.69
(1,410)	1:29:A:SER:HA	1:30:A:LYS:HB3	16	0.69
(1,405)	1:43:A:ILE:HD11	1:39:A:ARG:HG3	5	0.69
(1,370)	1:16:A:SER:HB3	1:4:A:LYS:HG2	12	0.69
(1,320)	1:138:A:PHE:HA	1:139:A:LEU:HD21	5	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,315)	1:82:A:ALA:HA	1:116:A:LYS:HG3	10	0.69
(1,300)	1:73:A:ARG:HD2	1:163:A:TRP:HH2	4	0.69
(1,272)	1:87:A:LYS:HE3	1:79:A:LEU:HB2	8	0.69
(1,272)	1:87:A:LYS:HE3	1:79:A:LEU:HB2	18	0.69
(1,226)	1:85:A:ARG:HB2	1:85:A:ARG:HD2	2	0.69
(1,160)	1:71:A:LEU:HD13	1:74:A:ASP:HA	6	0.69
(1,159)	1:71:A:LEU:HD12	1:94:A:LEU:HA	20	0.69
(1,134)	1:77:A:VAL:HG12	1:163:A:TRP:HZ2	7	0.69
(1,100)	1:171:A:ILE:HD11	1:125:A:LEU:HB3	2	0.69
(1,16)	1:174:A:LEU:H	1:173:A:THR:HG22	5	0.69
(1,15)	1:128:A:ARG:H	1:139:A:LEU:HD23	7	0.69
(2,27)	1:171:A:ILE:H	1:167:A:ILE:O	11	0.68
(2,27)	1:171:A:ILE:H	1:167:A:ILE:O	16	0.68
(2,25)	1:168:A:GLN:H	1:164:A:ILE:O	2	0.68
(2,23)	1:163:A:TRP:H	1:159:A:GLU:O	12	0.68
(2,15)	1:109:A:ILE:H	1:102:A:GLN:O	11	0.68
(2,15)	1:109:A:ILE:H	1:102:A:GLN:O	18	0.68
(2,12)	1:99:A:VAL:H	1:92:A:VAL:O	5	0.68
(2,12)	1:99:A:VAL:H	1:92:A:VAL:O	19	0.68
(2,9)	1:93:A:LEU:H	1:73:A:ARG:O	2	0.68
(2,9)	1:93:A:LEU:H	1:73:A:ARG:O	8	0.68
(1,3520)	1:132:A:HIS:HB3	1:132:A:HIS:HD2	1	0.68
(1,3520)	1:132:A:HIS:HB3	1:132:A:HIS:HD2	6	0.68
(1,3520)	1:132:A:HIS:HB3	1:132:A:HIS:HD2	19	0.68
(1,3399)	1:125:A:LEU:HD23	1:170:A:THR:HB	18	0.68
(1,3387)	1:94:A:LEU:HD12	1:97:A:ILE:HD13	5	0.68
(1,3369)	1:174:A:LEU:HD21	1:95:A:THR:HG21	8	0.68
(1,3340)	1:107:A:LYS:HG3	1:108:A:TYR:HB3	1	0.68
(1,3327)	1:50:A:LYS:HG2	1:50:A:LYS:HD2	1	0.68
(1,3327)	1:50:A:LYS:HG2	1:50:A:LYS:HD2	3	0.68
(1,3327)	1:50:A:LYS:HG2	1:50:A:LYS:HD2	5	0.68
(1,3327)	1:50:A:LYS:HG2	1:50:A:LYS:HD2	6	0.68
(1,3327)	1:50:A:LYS:HG2	1:50:A:LYS:HD2	7	0.68
(1,3327)	1:50:A:LYS:HG2	1:50:A:LYS:HD2	9	0.68
(1,3327)	1:50:A:LYS:HG2	1:50:A:LYS:HD2	11	0.68
(1,3327)	1:50:A:LYS:HG2	1:50:A:LYS:HD2	13	0.68
(1,3327)	1:50:A:LYS:HG2	1:50:A:LYS:HD2	14	0.68
(1,3327)	1:50:A:LYS:HG2	1:50:A:LYS:HD2	15	0.68
(1,3327)	1:50:A:LYS:HG2	1:50:A:LYS:HD2	16	0.68
(1,3327)	1:50:A:LYS:HG2	1:50:A:LYS:HD2	17	0.68
(1,3327)	1:50:A:LYS:HG2	1:50:A:LYS:HD2	19	0.68
(1,3327)	1:50:A:LYS:HG2	1:50:A:LYS:HD2	20	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3241)	1:113:A:LEU:HD12	1:113:A:LEU:H	8	0.68
(1,3211)	1:26:A:ALA:HB3	1:29:A:SER:HB3	19	0.68
(1,3090)	1:58:A:GLY:HA3	1:54:A:ARG:HG3	6	0.68
(1,2995)	1:24:A:ILE:HG13	1:24:A:ILE:HA	20	0.68
(1,2989)	1:43:A:ILE:HA	1:43:A:ILE:HD11	11	0.68
(1,2946)	1:53:A:MET:HE1	1:52:A:ILE:HD13	8	0.68
(1,2945)	1:53:A:MET:HE1	1:52:A:ILE:HG23	8	0.68
(1,2920)	1:141:A:SER:HB2	1:56:A:LYS:HB3	20	0.68
(1,2830)	1:97:A:ILE:HG22	1:119:A:VAL:HA	15	0.68
(1,2773)	1:77:A:VAL:HA	1:152:A:VAL:HG13	1	0.68
(1,2758)	1:44:A:TYR:HA	1:44:A:TYR:HE2	3	0.68
(1,2732)	1:184:A:SER:HA	1:59:A:GLN:HB2	8	0.68
(1,2728)	1:127:A:VAL:HA	1:137:A:LEU:HD22	2	0.68
(1,2720)	1:41:A:ASN:HA	1:44:A:TYR:HE1	14	0.68
(1,2715)	1:4:A:LYS:HA	1:8:A:VAL:HG11	3	0.68
(1,2715)	1:4:A:LYS:HA	1:8:A:VAL:HG12	5	0.68
(1,2641)	1:85:A:ARG:HA	1:86:A:LEU:HD13	5	0.68
(1,2641)	1:85:A:ARG:HA	1:86:A:LEU:HD13	16	0.68
(1,2581)	1:53:A:MET:HA	1:119:A:VAL:HG13	5	0.68
(1,2392)	1:159:A:GLU:HG3	1:77:A:VAL:HG12	4	0.68
(1,2353)	1:133:A:GLU:HG3	1:130:A:VAL:HG12	18	0.68
(1,2352)	1:130:A:VAL:HG11	1:133:A:GLU:HG2	4	0.68
(1,2317)	1:67:A:LYS:HB3	1:44:A:TYR:HE1	12	0.68
(1,2309)	1:168:A:GLN:HB3	1:168:A:GLN:HG3	1	0.68
(1,2309)	1:168:A:GLN:HB3	1:168:A:GLN:HG3	2	0.68
(1,2309)	1:168:A:GLN:HB3	1:168:A:GLN:HG3	5	0.68
(1,2309)	1:168:A:GLN:HB3	1:168:A:GLN:HG3	6	0.68
(1,2309)	1:168:A:GLN:HB3	1:168:A:GLN:HG3	11	0.68
(1,2309)	1:168:A:GLN:HB3	1:168:A:GLN:HG3	12	0.68
(1,2309)	1:168:A:GLN:HB3	1:168:A:GLN:HG3	16	0.68
(1,2309)	1:168:A:GLN:HB3	1:168:A:GLN:HG3	17	0.68
(1,2195)	1:35:A:GLU:HB3	1:32:A:ALA:HB2	20	0.68
(1,2167)	1:67:A:LYS:HD3	1:67:A:LYS:H	4	0.68
(1,2149)	1:168:A:GLN:HB3	1:165:A:GLN:HA	1	0.68
(1,2149)	1:168:A:GLN:HB3	1:165:A:GLN:HA	14	0.68
(1,2131)	1:126:A:ILE:HG12	1:140:A:ILE:HD11	19	0.68
(1,2077)	1:182:A:ILE:HG13	1:182:A:ILE:HG22	15	0.68
(1,2031)	1:124:A:LYS:HG3	1:123:A:LYS:HD3	15	0.68
(1,1965)	1:46:A:LYS:HG3	1:108:A:TYR:HE2	6	0.68
(1,1939)	1:50:A:LYS:HG3	1:60:A:MET:HE2	1	0.68
(1,1939)	1:50:A:LYS:HG3	1:60:A:MET:HE1	11	0.68
(1,1867)	1:19:A:LEU:HD22	1:19:A:LEU:HA	10	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1864)	1:95:A:THR:HG23	1:72:A:VAL:HB	3	0.68
(1,1859)	1:62:A:ALA:HB3	1:110:A:PHE:HZ	8	0.68
(1,1859)	1:62:A:ALA:HB3	1:110:A:PHE:HZ	15	0.68
(1,1832)	1:118:A:THR:HG23	1:113:A:LEU:HB3	4	0.68
(1,1832)	1:118:A:THR:HG22	1:113:A:LEU:HB3	8	0.68
(1,1832)	1:118:A:THR:HG21	1:113:A:LEU:HB3	9	0.68
(1,1832)	1:118:A:THR:HG22	1:113:A:LEU:HB3	13	0.68
(1,1832)	1:118:A:THR:HG22	1:113:A:LEU:HB3	19	0.68
(1,1799)	1:127:A:VAL:HG11	1:137:A:LEU:HD22	15	0.68
(1,1778)	1:89:A:VAL:HG11	1:100:A:PHE:HD1	6	0.68
(1,1778)	1:89:A:VAL:HG12	1:100:A:PHE:HD1	8	0.68
(1,1778)	1:89:A:VAL:HG11	1:100:A:PHE:HD1	14	0.68
(1,1762)	1:99:A:VAL:HG11	1:66:A:LEU:HD12	9	0.68
(1,1739)	1:119:A:VAL:HG12	1:53:A:MET:HB2	2	0.68
(1,1728)	1:31:A:VAL:HG11	1:35:A:GLU:HG3	15	0.68
(1,1680)	1:130:A:VAL:HG23	1:136:A:GLY:HA2	18	0.68
(1,1666)	1:97:A:ILE:HG21	1:119:A:VAL:HG22	13	0.68
(1,1661)	1:120:A:ILE:HG23	1:120:A:ILE:HG12	6	0.68
(1,1661)	1:120:A:ILE:HG21	1:120:A:ILE:HG12	7	0.68
(1,1661)	1:120:A:ILE:HG23	1:120:A:ILE:HG12	17	0.68
(1,1598)	1:149:A:MET:HE3	1:126:A:ILE:HD12	10	0.68
(1,1598)	1:149:A:MET:HE3	1:126:A:ILE:HD12	12	0.68
(1,1566)	1:97:A:ILE:HD13	1:121:A:SER:HA	18	0.68
(1,1564)	1:97:A:ILE:HD12	1:97:A:ILE:H	16	0.68
(1,1546)	1:120:A:ILE:HD13	1:98:A:LEU:HB2	15	0.68
(1,1530)	1:167:A:ILE:HD13	1:168:A:GLN:HB3	11	0.68
(1,1519)	1:109:A:ILE:HD11	1:104:A:LYS:HG2	7	0.68
(1,1378)	1:41:A:ASN:HD22	1:45:A:THR:HG23	19	0.68
(1,1189)	1:64:A:GLU:H	1:64:A:GLU:HB3	4	0.68
(1,1189)	1:64:A:GLU:H	1:64:A:GLU:HB3	15	0.68
(1,1189)	1:64:A:GLU:H	1:64:A:GLU:HB3	17	0.68
(1,1189)	1:64:A:GLU:H	1:64:A:GLU:HB3	18	0.68
(1,1184)	1:109:A:ILE:H	1:109:A:ILE:HD12	8	0.68
(1,1184)	1:109:A:ILE:H	1:109:A:ILE:HD11	14	0.68
(1,1163)	1:112:A:SER:H	1:111:A:ALA:HB1	17	0.68
(1,1163)	1:112:A:SER:H	1:111:A:ALA:HB2	20	0.68
(1,1151)	1:175:A:ASN:H	1:174:A:LEU:HD22	8	0.68
(1,1038)	1:170:A:THR:H	1:170:A:THR:HG22	1	0.68
(1,1038)	1:170:A:THR:H	1:170:A:THR:HG23	5	0.68
(1,1038)	1:170:A:THR:H	1:170:A:THR:HG23	13	0.68
(1,1038)	1:170:A:THR:H	1:170:A:THR:HG21	17	0.68
(1,1038)	1:170:A:THR:H	1:170:A:THR:HG22	20	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1014)	1:161:A:ASN:H	1:161:A:ASN:HD22	16	0.68
(1,851)	1:159:A:GLU:H	1:158:A:GLU:HB2	3	0.68
(1,584)	1:185:A:GLU:H	1:184:A:SER:HA	14	0.68
(1,492)	1:95:A:THR:HG23	1:10:A:GLN:HB2	12	0.68
(1,460)	1:29:A:SER:HA	1:20:A:VAL:HG23	9	0.68
(1,315)	1:82:A:ALA:HA	1:116:A:LYS:HG3	3	0.68
(1,300)	1:73:A:ARG:HD2	1:163:A:TRP:HH2	3	0.68
(1,297)	1:19:A:LEU:HB3	1:18:A:SER:HB2	3	0.68
(1,290)	1:83:A:ALA:HB1	1:85:A:ARG:HD3	12	0.68
(1,163)	1:40:A:LEU:HD13	1:44:A:TYR:HB2	12	0.68
(1,159)	1:71:A:LEU:HD11	1:94:A:LEU:HA	6	0.68
(1,137)	1:67:A:LYS:HG2	1:68:A:ARG:HB2	17	0.68
(1,116)	1:89:A:VAL:HG13	1:87:A:LYS:HD3	12	0.68
(1,42)	1:76:A:SER:H	1:77:A:VAL:HG11	12	0.68
(2,27)	1:171:A:ILE:H	1:167:A:ILE:O	19	0.67
(2,21)	1:161:A:ASN:H	1:158:A:GLU:O	13	0.67
(2,15)	1:109:A:ILE:H	1:102:A:GLN:O	12	0.67
(2,15)	1:109:A:ILE:H	1:102:A:GLN:O	19	0.67
(2,12)	1:99:A:VAL:H	1:92:A:VAL:O	10	0.67
(2,9)	1:93:A:LEU:H	1:73:A:ARG:O	13	0.67
(2,3)	1:78:A:PHE:H	1:153:A:HIS:O	6	0.67
(2,2)	1:72:A:VAL:H	1:93:A:LEU:O	12	0.67
(1,3520)	1:132:A:HIS:HB3	1:132:A:HIS:HD2	4	0.67
(1,3520)	1:132:A:HIS:HB3	1:132:A:HIS:HD2	11	0.67
(1,3520)	1:132:A:HIS:HB3	1:132:A:HIS:HD2	20	0.67
(1,3448)	1:34:A:TYR:HD2	1:38:A:VAL:HG23	9	0.67
(1,3327)	1:50:A:LYS:HG2	1:50:A:LYS:HD2	8	0.67
(1,3327)	1:50:A:LYS:HG2	1:50:A:LYS:HD2	18	0.67
(1,3310)	1:45:A:THR:HB	1:42:A:GLU:HB2	9	0.67
(1,3308)	1:53:A:MET:HE2	1:119:A:VAL:H	9	0.67
(1,3263)	1:149:A:MET:HE1	1:142:A:MET:HE1	19	0.67
(1,3260)	1:171:A:ILE:HA	1:125:A:LEU:HD11	2	0.67
(1,3260)	1:171:A:ILE:HA	1:125:A:LEU:HD13	11	0.67
(1,3197)	1:111:A:ALA:HB2	1:118:A:THR:HA	9	0.67
(1,3191)	1:33:A:SER:HA	1:32:A:ALA:HB2	1	0.67
(1,3191)	1:33:A:SER:HA	1:32:A:ALA:HB2	5	0.67
(1,3142)	1:89:A:VAL:HG11	1:87:A:LYS:HE3	3	0.67
(1,3132)	1:4:A:LYS:HB3	1:4:A:LYS:HD3	20	0.67
(1,2989)	1:43:A:ILE:HA	1:43:A:ILE:HD11	8	0.67
(1,2989)	1:43:A:ILE:HA	1:43:A:ILE:HD12	18	0.67
(1,2970)	1:176:A:ARG:HD3	1:176:A:ARG:HA	1	0.67
(1,2951)	1:144:A:MET:HE3	1:144:A:MET:HA	20	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2946)	1:53:A:MET:HE1	1:52:A:ILE:HD13	4	0.67
(1,2946)	1:53:A:MET:HE3	1:52:A:ILE:HD13	13	0.67
(1,2865)	1:93:A:LEU:HD21	1:167:A:ILE:HA	4	0.67
(1,2833)	1:63:A:LYS:HD2	1:49:A:SER:HB2	20	0.67
(1,2830)	1:97:A:ILE:HG22	1:119:A:VAL:HA	3	0.67
(1,2773)	1:77:A:VAL:HA	1:152:A:VAL:HG12	2	0.67
(1,2739)	1:123:A:LYS:HD3	1:123:A:LYS:HA	11	0.67
(1,2728)	1:127:A:VAL:HA	1:137:A:LEU:HD22	1	0.67
(1,2728)	1:127:A:VAL:HA	1:137:A:LEU:HD22	8	0.67
(1,2715)	1:4:A:LYS:HA	1:8:A:VAL:HG11	19	0.67
(1,2664)	1:68:A:ARG:HA	1:68:A:ARG:HG2	4	0.67
(1,2657)	1:108:A:TYR:HA	1:109:A:ILE:HD13	8	0.67
(1,2653)	1:80:A:LYS:HA	1:80:A:LYS:HD3	14	0.67
(1,2645)	1:142:A:MET:HA	1:147:A:PRO:HG2	19	0.67
(1,2641)	1:85:A:ARG:HA	1:86:A:LEU:HD12	4	0.67
(1,2581)	1:53:A:MET:HA	1:119:A:VAL:HG13	13	0.67
(1,2496)	1:140:A:ILE:HD13	1:128:A:ARG:HD3	18	0.67
(1,2451)	1:46:A:LYS:HD2	1:46:A:LYS:HE2	1	0.67
(1,2451)	1:46:A:LYS:HD2	1:46:A:LYS:HE2	2	0.67
(1,2451)	1:46:A:LYS:HD2	1:46:A:LYS:HE2	3	0.67
(1,2451)	1:46:A:LYS:HD2	1:46:A:LYS:HE2	4	0.67
(1,2451)	1:46:A:LYS:HD2	1:46:A:LYS:HE2	5	0.67
(1,2451)	1:46:A:LYS:HD2	1:46:A:LYS:HE2	6	0.67
(1,2451)	1:46:A:LYS:HD2	1:46:A:LYS:HE2	7	0.67
(1,2451)	1:46:A:LYS:HD2	1:46:A:LYS:HE2	8	0.67
(1,2451)	1:46:A:LYS:HD2	1:46:A:LYS:HE2	9	0.67
(1,2451)	1:46:A:LYS:HD2	1:46:A:LYS:HE2	10	0.67
(1,2451)	1:46:A:LYS:HD2	1:46:A:LYS:HE2	11	0.67
(1,2451)	1:46:A:LYS:HD2	1:46:A:LYS:HE2	12	0.67
(1,2451)	1:46:A:LYS:HD2	1:46:A:LYS:HE2	13	0.67
(1,2451)	1:46:A:LYS:HD2	1:46:A:LYS:HE2	14	0.67
(1,2451)	1:46:A:LYS:HD2	1:46:A:LYS:HE2	15	0.67
(1,2451)	1:46:A:LYS:HD2	1:46:A:LYS:HE2	16	0.67
(1,2451)	1:46:A:LYS:HD2	1:46:A:LYS:HE2	17	0.67
(1,2451)	1:46:A:LYS:HD2	1:46:A:LYS:HE2	18	0.67
(1,2451)	1:46:A:LYS:HD2	1:46:A:LYS:HE2	20	0.67
(1,2352)	1:130:A:VAL:HG11	1:133:A:GLU:HG2	11	0.67
(1,2324)	1:89:A:VAL:HG11	1:87:A:LYS:HB3	9	0.67
(1,2309)	1:168:A:GLN:HB3	1:168:A:GLN:HG3	7	0.67
(1,2206)	1:165:A:GLN:HB2	1:164:A:ILE:HG23	11	0.67
(1,2192)	1:15:A:GLN:HB2	1:18:A:SER:HA	14	0.67
(1,2167)	1:67:A:LYS:HD3	1:67:A:LYS:H	10	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2167)	1:67:A:LYS:HD3	1:67:A:LYS:H	14	0.67
(1,2116)	1:176:A:ARG:HG3	1:11:A:GLU:HB3	7	0.67
(1,2046)	1:79:A:LEU:HD11	1:100:A:PHE:HA	3	0.67
(1,2046)	1:79:A:LEU:HD13	1:100:A:PHE:HA	5	0.67
(1,2019)	1:170:A:THR:HG21	1:93:A:LEU:HD13	18	0.67
(1,2014)	1:93:A:LEU:HD11	1:98:A:LEU:HD23	6	0.67
(1,1995)	1:174:A:LEU:HD11	1:12:A:ASP:HB2	2	0.67
(1,1981)	1:71:A:LEU:HD21	1:40:A:LEU:HB3	2	0.67
(1,1981)	1:71:A:LEU:HD23	1:40:A:LEU:HB3	6	0.67
(1,1955)	1:66:A:LEU:HD12	1:99:A:VAL:HB	7	0.67
(1,1939)	1:50:A:LYS:HG3	1:60:A:MET:HE1	5	0.67
(1,1939)	1:50:A:LYS:HG3	1:60:A:MET:HE2	18	0.67
(1,1859)	1:62:A:ALA:HB2	1:110:A:PHE:HZ	4	0.67
(1,1859)	1:62:A:ALA:HB3	1:110:A:PHE:HZ	6	0.67
(1,1859)	1:62:A:ALA:HB1	1:110:A:PHE:HZ	9	0.67
(1,1859)	1:62:A:ALA:HB2	1:110:A:PHE:HZ	11	0.67
(1,1859)	1:62:A:ALA:HB1	1:110:A:PHE:HZ	16	0.67
(1,1851)	1:170:A:THR:HG21	1:95:A:THR:HB	3	0.67
(1,1832)	1:118:A:THR:HG21	1:113:A:LEU:HB3	10	0.67
(1,1799)	1:127:A:VAL:HG11	1:137:A:LEU:HD22	2	0.67
(1,1762)	1:99:A:VAL:HG13	1:66:A:LEU:HD13	11	0.67
(1,1762)	1:99:A:VAL:HG13	1:66:A:LEU:HD13	13	0.67
(1,1760)	1:99:A:VAL:HG11	1:101:A:LEU:HD11	5	0.67
(1,1742)	1:119:A:VAL:HG13	1:110:A:PHE:HE1	4	0.67
(1,1739)	1:119:A:VAL:HG12	1:53:A:MET:HB2	18	0.67
(1,1728)	1:31:A:VAL:HG11	1:35:A:GLU:HG3	1	0.67
(1,1716)	1:119:A:VAL:HG21	1:55:A:MET:HG3	5	0.67
(1,1716)	1:119:A:VAL:HG22	1:55:A:MET:HG3	15	0.67
(1,1654)	1:140:A:ILE:HG22	1:126:A:ILE:HG13	10	0.67
(1,1575)	1:164:A:ILE:HD12	1:161:A:ASN:HB3	20	0.67
(1,1560)	1:97:A:ILE:HD13	1:69:A:LYS:HE3	20	0.67
(1,1546)	1:120:A:ILE:HD13	1:98:A:LEU:HB2	3	0.67
(1,1530)	1:167:A:ILE:HD13	1:168:A:GLN:HB3	2	0.67
(1,1525)	1:166:A:ILE:HD11	1:169:A:ASP:HB3	12	0.67
(1,1470)	1:37:A:LYS:H	1:38:A:VAL:HG13	16	0.67
(1,1470)	1:37:A:LYS:H	1:38:A:VAL:HG13	18	0.67
(1,1434)	1:58:A:GLY:H	1:55:A:MET:HG2	7	0.67
(1,1426)	1:181:A:GLY:H	1:180:A:GLU:HB3	2	0.67
(1,1318)	1:4:A:LYS:H	1:6:A:ASN:HD22	18	0.67
(1,1189)	1:64:A:GLU:H	1:64:A:GLU:HB3	2	0.67
(1,1189)	1:64:A:GLU:H	1:64:A:GLU:HB3	5	0.67
(1,1189)	1:64:A:GLU:H	1:64:A:GLU:HB3	19	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1189)	1:64:A:GLU:H	1:64:A:GLU:HB3	20	0.67
(1,1184)	1:109:A:ILE:H	1:109:A:ILE:HD11	15	0.67
(1,1163)	1:112:A:SER:H	1:111:A:ALA:HB1	6	0.67
(1,1163)	1:112:A:SER:H	1:111:A:ALA:HB3	8	0.67
(1,1151)	1:175:A:ASN:H	1:174:A:LEU:HD22	11	0.67
(1,1038)	1:170:A:THR:H	1:170:A:THR:HG23	3	0.67
(1,1038)	1:170:A:THR:H	1:170:A:THR:HG22	6	0.67
(1,1038)	1:170:A:THR:H	1:170:A:THR:HG22	10	0.67
(1,1038)	1:170:A:THR:H	1:170:A:THR:HG22	11	0.67
(1,1038)	1:170:A:THR:H	1:170:A:THR:HG21	12	0.67
(1,1038)	1:170:A:THR:H	1:170:A:THR:HG23	16	0.67
(1,735)	1:99:A:VAL:H	1:99:A:VAL:HG23	4	0.67
(1,735)	1:99:A:VAL:H	1:99:A:VAL:HG23	8	0.67
(1,735)	1:99:A:VAL:H	1:99:A:VAL:HG22	10	0.67
(1,735)	1:99:A:VAL:H	1:99:A:VAL:HG21	13	0.67
(1,735)	1:99:A:VAL:H	1:99:A:VAL:HG21	17	0.67
(1,627)	1:98:A:LEU:H	1:97:A:ILE:HG12	16	0.67
(1,573)	1:113:A:LEU:H	1:112:A:SER:HB2	11	0.67
(1,497)	1:139:A:LEU:HA	1:128:A:ARG:HG3	8	0.67
(1,443)	1:21:A:LYS:HE3	1:20:A:VAL:HG22	1	0.67
(1,432)	1:67:A:LYS:HE3	1:44:A:TYR:HD1	9	0.67
(1,391)	1:64:A:GLU:HG3	1:44:A:TYR:HE2	16	0.67
(1,331)	1:15:A:GLN:HA	1:15:A:GLN:HG2	3	0.67
(1,300)	1:73:A:ARG:HD2	1:163:A:TRP:HH2	16	0.67
(1,297)	1:19:A:LEU:HB3	1:18:A:SER:HB2	1	0.67
(1,210)	1:70:A:LYS:HD3	1:8:A:VAL:HG21	18	0.67
(1,163)	1:40:A:LEU:HD12	1:44:A:TYR:HB2	15	0.67
(1,155)	1:71:A:LEU:HD22	1:39:A:ARG:HB2	1	0.67
(1,155)	1:71:A:LEU:HD22	1:39:A:ARG:HB2	17	0.67
(1,137)	1:67:A:LYS:HG2	1:68:A:ARG:HB2	18	0.67
(1,134)	1:77:A:VAL:HG12	1:163:A:TRP:HZ2	10	0.67
(1,124)	1:45:A:THR:HG22	1:46:A:LYS:HB3	19	0.67
(1,115)	1:86:A:LEU:HD22	1:87:A:LYS:HD2	17	0.67
(1,101)	1:164:A:ILE:HD13	1:129:A:GLU:HB3	2	0.67
(1,65)	1:15:A:GLN:H	1:15:A:GLN:HG2	16	0.67
(1,47)	1:175:A:ASN:H	1:173:A:THR:HG23	11	0.67
(2,27)	1:171:A:ILE:H	1:167:A:ILE:O	1	0.66
(2,25)	1:168:A:GLN:H	1:164:A:ILE:O	14	0.66
(2,23)	1:163:A:TRP:H	1:159:A:GLU:O	8	0.66
(2,23)	1:163:A:TRP:H	1:159:A:GLU:O	11	0.66
(2,23)	1:163:A:TRP:H	1:159:A:GLU:O	15	0.66
(2,23)	1:163:A:TRP:H	1:159:A:GLU:O	18	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,18)	1:152:A:VAL:H	1:137:A:LEU:O	10	0.66
(2,15)	1:109:A:ILE:H	1:102:A:GLN:O	4	0.66
(2,15)	1:109:A:ILE:H	1:102:A:GLN:O	9	0.66
(2,15)	1:109:A:ILE:H	1:102:A:GLN:O	17	0.66
(2,12)	1:99:A:VAL:H	1:92:A:VAL:O	3	0.66
(2,9)	1:93:A:LEU:H	1:73:A:ARG:O	11	0.66
(1,3533)	1:130:A:VAL:HG21	1:153:A:HIS:HD2	12	0.66
(1,3520)	1:132:A:HIS:HB3	1:132:A:HIS:HD2	8	0.66
(1,3520)	1:132:A:HIS:HB3	1:132:A:HIS:HD2	18	0.66
(1,3486)	1:138:A:PHE:HE2	1:128:A:ARG:HB3	3	0.66
(1,3486)	1:138:A:PHE:HE2	1:128:A:ARG:HB3	20	0.66
(1,3448)	1:34:A:TYR:HD1	1:38:A:VAL:HG23	5	0.66
(1,3397)	1:45:A:THR:HG21	1:42:A:GLU:HG3	8	0.66
(1,3397)	1:45:A:THR:HG23	1:42:A:GLU:HG3	18	0.66
(1,3394)	1:134:A:GLU:HG2	1:157:A:LYS:HG3	17	0.66
(1,3349)	1:79:A:LEU:HD13	1:100:A:PHE:HZ	12	0.66
(1,3310)	1:45:A:THR:HB	1:42:A:GLU:HB2	8	0.66
(1,3310)	1:45:A:THR:HB	1:42:A:GLU:HB2	17	0.66
(1,3263)	1:149:A:MET:HE2	1:142:A:MET:HE1	17	0.66
(1,3260)	1:171:A:ILE:HA	1:125:A:LEU:HD12	6	0.66
(1,3191)	1:33:A:SER:HA	1:32:A:ALA:HB2	12	0.66
(1,3132)	1:4:A:LYS:HB3	1:4:A:LYS:HD3	8	0.66
(1,3132)	1:4:A:LYS:HB3	1:4:A:LYS:HD3	9	0.66
(1,2995)	1:24:A:ILE:HG13	1:24:A:ILE:HA	6	0.66
(1,2995)	1:24:A:ILE:HG13	1:24:A:ILE:HA	10	0.66
(1,2970)	1:176:A:ARG:HD3	1:176:A:ARG:HA	4	0.66
(1,2942)	1:110:A:PHE:HB2	1:53:A:MET:HE1	8	0.66
(1,2773)	1:77:A:VAL:HA	1:152:A:VAL:HG13	18	0.66
(1,2739)	1:123:A:LYS:HD3	1:123:A:LYS:HA	4	0.66
(1,2728)	1:127:A:VAL:HA	1:137:A:LEU:HD23	9	0.66
(1,2728)	1:127:A:VAL:HA	1:137:A:LEU:HD21	17	0.66
(1,2720)	1:41:A:ASN:HA	1:44:A:TYR:HE1	17	0.66
(1,2629)	1:137:A:LEU:HA	1:130:A:VAL:HG22	15	0.66
(1,2469)	1:22:A:ASP:HB2	1:24:A:ILE:HG12	14	0.66
(1,2392)	1:159:A:GLU:HG3	1:77:A:VAL:HG11	9	0.66
(1,2324)	1:89:A:VAL:HG12	1:87:A:LYS:HB3	6	0.66
(1,2324)	1:89:A:VAL:HG11	1:87:A:LYS:HB3	10	0.66
(1,2313)	1:168:A:GLN:HG2	1:164:A:ILE:HG23	4	0.66
(1,2282)	1:119:A:VAL:HB	1:97:A:ILE:HG22	2	0.66
(1,2206)	1:165:A:GLN:HB2	1:164:A:ILE:HG23	8	0.66
(1,2206)	1:165:A:GLN:HB2	1:164:A:ILE:HG22	10	0.66
(1,2179)	1:80:A:LYS:HD3	1:80:A:LYS:HB2	17	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2167)	1:67:A:LYS:HD3	1:67:A:LYS:H	6	0.66
(1,2077)	1:182:A:ILE:HG13	1:182:A:ILE:HG22	9	0.66
(1,2054)	1:113:A:LEU:HD11	1:150:A:VAL:HB	12	0.66
(1,2022)	1:93:A:LEU:HD13	1:72:A:VAL:H	15	0.66
(1,1995)	1:174:A:LEU:HD11	1:12:A:ASP:HB2	17	0.66
(1,1939)	1:50:A:LYS:HG3	1:60:A:MET:HE3	19	0.66
(1,1904)	1:86:A:LEU:HD12	1:153:A:HIS:HD2	1	0.66
(1,1867)	1:19:A:LEU:HD22	1:19:A:LEU:HA	1	0.66
(1,1867)	1:19:A:LEU:HD21	1:19:A:LEU:HA	3	0.66
(1,1859)	1:62:A:ALA:HB1	1:110:A:PHE:HZ	3	0.66
(1,1859)	1:62:A:ALA:HB3	1:110:A:PHE:HZ	5	0.66
(1,1859)	1:62:A:ALA:HB1	1:110:A:PHE:HZ	14	0.66
(1,1851)	1:170:A:THR:HG22	1:95:A:THR:HB	8	0.66
(1,1851)	1:170:A:THR:HG21	1:95:A:THR:HB	10	0.66
(1,1851)	1:170:A:THR:HG21	1:95:A:THR:HB	11	0.66
(1,1832)	1:118:A:THR:HG23	1:113:A:LEU:HB3	17	0.66
(1,1828)	1:3:A:THR:HG21	1:3:A:THR:HA	3	0.66
(1,1762)	1:99:A:VAL:HG13	1:66:A:LEU:HD12	3	0.66
(1,1760)	1:99:A:VAL:HG13	1:101:A:LEU:HD12	7	0.66
(1,1728)	1:31:A:VAL:HG12	1:35:A:GLU:HG3	8	0.66
(1,1728)	1:31:A:VAL:HG13	1:35:A:GLU:HG3	10	0.66
(1,1661)	1:120:A:ILE:HG22	1:120:A:ILE:HG12	2	0.66
(1,1631)	1:126:A:ILE:HG23	1:126:A:ILE:HG13	10	0.66
(1,1598)	1:149:A:MET:HE3	1:126:A:ILE:HD13	7	0.66
(1,1563)	1:97:A:ILE:HD13	1:61:A:PHE:HD1	18	0.66
(1,1530)	1:167:A:ILE:HD12	1:168:A:GLN:HB3	19	0.66
(1,1498)	1:54:A:ARG:H	1:54:A:ARG:HG2	12	0.66
(1,1470)	1:37:A:LYS:H	1:38:A:VAL:HG13	12	0.66
(1,1467)	1:10:A:GLN:H	1:10:A:GLN:HB2	5	0.66
(1,1466)	1:10:A:GLN:H	1:10:A:GLN:HG2	7	0.66
(1,1426)	1:181:A:GLY:H	1:180:A:GLU:HB3	1	0.66
(1,1426)	1:181:A:GLY:H	1:180:A:GLU:HB3	8	0.66
(1,1208)	1:25:A:GLY:H	1:24:A:ILE:HD13	2	0.66
(1,1189)	1:64:A:GLU:H	1:64:A:GLU:HB3	6	0.66
(1,1189)	1:64:A:GLU:H	1:64:A:GLU:HB3	11	0.66
(1,1184)	1:109:A:ILE:H	1:109:A:ILE:HD12	13	0.66
(1,1163)	1:112:A:SER:H	1:111:A:ALA:HB2	12	0.66
(1,1151)	1:175:A:ASN:H	1:174:A:LEU:HD22	10	0.66
(1,1151)	1:175:A:ASN:H	1:174:A:LEU:HD21	13	0.66
(1,1038)	1:170:A:THR:H	1:170:A:THR:HG21	2	0.66
(1,1038)	1:170:A:THR:H	1:170:A:THR:HG21	7	0.66
(1,920)	1:31:A:VAL:H	1:32:A:ALA:HB2	15	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,920)	1:31:A:VAL:H	1:32:A:ALA:HB2	19	0.66
(1,920)	1:31:A:VAL:H	1:32:A:ALA:HB3	20	0.66
(1,851)	1:159:A:GLU:H	1:158:A:GLU:HB2	18	0.66
(1,735)	1:99:A:VAL:H	1:99:A:VAL:HG21	2	0.66
(1,735)	1:99:A:VAL:H	1:99:A:VAL:HG23	14	0.66
(1,584)	1:185:A:GLU:H	1:184:A:SER:HA	12	0.66
(1,584)	1:185:A:GLU:H	1:184:A:SER:HA	13	0.66
(1,462)	1:94:A:LEU:HD22	1:93:A:LEU:H	12	0.66
(1,460)	1:29:A:SER:HA	1:20:A:VAL:HG22	7	0.66
(1,455)	1:151:A:GLU:HB2	1:116:A:LYS:HD2	19	0.66
(1,453)	1:92:A:VAL:HG12	1:43:A:ILE:HG12	8	0.66
(1,453)	1:92:A:VAL:HG12	1:43:A:ILE:HG12	18	0.66
(1,432)	1:67:A:LYS:HE3	1:44:A:TYR:HD2	7	0.66
(1,397)	1:109:A:ILE:HA	1:110:A:PHE:HE2	18	0.66
(1,375)	1:49:A:SER:HB2	1:63:A:LYS:HE3	13	0.66
(1,375)	1:49:A:SER:HB2	1:63:A:LYS:HE3	16	0.66
(1,363)	1:37:A:LYS:HA	1:37:A:LYS:HE2	3	0.66
(1,346)	1:162:A:SER:HB2	1:158:A:GLU:HG3	2	0.66
(1,345)	1:159:A:GLU:HG2	1:162:A:SER:HB2	4	0.66
(1,345)	1:159:A:GLU:HG2	1:162:A:SER:HB3	11	0.66
(1,345)	1:159:A:GLU:HG2	1:162:A:SER:HB3	12	0.66
(1,318)	1:125:A:LEU:HA	1:126:A:ILE:HG21	7	0.66
(1,318)	1:125:A:LEU:HA	1:126:A:ILE:HG23	13	0.66
(1,318)	1:125:A:LEU:HA	1:126:A:ILE:HG21	17	0.66
(1,317)	1:14:A:ALA:HA	1:8:A:VAL:HG11	12	0.66
(1,300)	1:73:A:ARG:HD2	1:163:A:TRP:HH2	12	0.66
(1,290)	1:83:A:ALA:HB3	1:85:A:ARG:HD3	15	0.66
(1,210)	1:70:A:LYS:HD3	1:8:A:VAL:HG22	7	0.66
(1,170)	1:107:A:LYS:HG3	1:46:A:LYS:HA	2	0.66
(1,161)	1:71:A:LEU:HD11	1:93:A:LEU:H	18	0.66
(1,159)	1:71:A:LEU:HD12	1:94:A:LEU:HA	1	0.66
(1,134)	1:77:A:VAL:HG11	1:163:A:TRP:HZ2	1	0.66
(1,87)	1:9:A:GLU:H	1:8:A:VAL:HG13	16	0.66
(1,87)	1:9:A:GLU:H	1:8:A:VAL:HG13	18	0.66
(1,65)	1:15:A:GLN:H	1:15:A:GLN:HG2	7	0.66
(1,62)	1:4:A:LYS:H	1:5:A:ASP:HB2	4	0.66
(1,47)	1:175:A:ASN:H	1:173:A:THR:HG22	8	0.66
(1,47)	1:175:A:ASN:H	1:173:A:THR:HG23	15	0.66
(1,47)	1:175:A:ASN:H	1:173:A:THR:HG21	17	0.66
(1,15)	1:128:A:ARG:H	1:139:A:LEU:HD21	10	0.66
(1,15)	1:128:A:ARG:H	1:139:A:LEU:HD23	20	0.66
(1,12)	1:140:A:ILE:H	1:127:A:VAL:HB	8	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,25)	1:168:A:GLN:H	1:164:A:ILE:O	3	0.65
(2,23)	1:163:A:TRP:H	1:159:A:GLU:O	7	0.65
(2,23)	1:163:A:TRP:H	1:159:A:GLU:O	13	0.65
(2,15)	1:109:A:ILE:H	1:102:A:GLN:O	3	0.65
(2,15)	1:109:A:ILE:H	1:102:A:GLN:O	7	0.65
(2,9)	1:93:A:LEU:H	1:73:A:ARG:O	10	0.65
(2,9)	1:93:A:LEU:H	1:73:A:ARG:O	19	0.65
(2,3)	1:78:A:PHE:H	1:153:A:HIS:O	7	0.65
(1,3520)	1:132:A:HIS:HB3	1:132:A:HIS:HD2	2	0.65
(1,3507)	1:43:A:ILE:HD11	1:108:A:TYR:HE2	18	0.65
(1,3448)	1:34:A:TYR:HD1	1:38:A:VAL:HG22	16	0.65
(1,3440)	1:103:A:GLU:HG2	1:108:A:TYR:HD1	7	0.65
(1,3361)	1:157:A:LYS:HA	1:160:A:ARG:HB2	19	0.65
(1,3327)	1:50:A:LYS:HG2	1:50:A:LYS:HD2	2	0.65
(1,3327)	1:50:A:LYS:HG2	1:50:A:LYS:HD2	4	0.65
(1,3327)	1:50:A:LYS:HG2	1:50:A:LYS:HD2	10	0.65
(1,3327)	1:50:A:LYS:HG2	1:50:A:LYS:HD2	12	0.65
(1,3308)	1:53:A:MET:HE3	1:119:A:VAL:H	17	0.65
(1,3263)	1:149:A:MET:HE2	1:142:A:MET:HE1	9	0.65
(1,3260)	1:171:A:ILE:HA	1:125:A:LEU:HD13	9	0.65
(1,3191)	1:33:A:SER:HA	1:32:A:ALA:HB3	3	0.65
(1,3191)	1:33:A:SER:HA	1:32:A:ALA:HB1	7	0.65
(1,2995)	1:24:A:ILE:HG13	1:24:A:ILE:HA	1	0.65
(1,2995)	1:24:A:ILE:HG13	1:24:A:ILE:HA	2	0.65
(1,2995)	1:24:A:ILE:HG13	1:24:A:ILE:HA	8	0.65
(1,2995)	1:24:A:ILE:HG13	1:24:A:ILE:HA	12	0.65
(1,2898)	1:149:A:MET:HB3	1:138:A:PHE:HD1	6	0.65
(1,2773)	1:77:A:VAL:HA	1:152:A:VAL:HG13	3	0.65
(1,2773)	1:77:A:VAL:HA	1:152:A:VAL:HG11	15	0.65
(1,2773)	1:77:A:VAL:HA	1:152:A:VAL:HG13	16	0.65
(1,2773)	1:77:A:VAL:HA	1:152:A:VAL:HG11	19	0.65
(1,2768)	1:159:A:GLU:HG2	1:159:A:GLU:HA	11	0.65
(1,2739)	1:123:A:LYS:HD3	1:123:A:LYS:HA	3	0.65
(1,2732)	1:184:A:SER:HA	1:59:A:GLN:HB2	5	0.65
(1,2728)	1:127:A:VAL:HA	1:137:A:LEU:HD22	13	0.65
(1,2712)	1:46:A:LYS:HA	1:107:A:LYS:HB3	15	0.65
(1,2664)	1:68:A:ARG:HA	1:68:A:ARG:HG2	7	0.65
(1,2653)	1:80:A:LYS:HA	1:80:A:LYS:HD3	2	0.65
(1,2653)	1:80:A:LYS:HA	1:80:A:LYS:HD3	4	0.65
(1,2641)	1:85:A:ARG:HA	1:86:A:LEU:HD11	12	0.65
(1,2629)	1:137:A:LEU:HA	1:130:A:VAL:HG23	7	0.65
(1,2621)	1:86:A:LEU:HD12	1:86:A:LEU:HA	16	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2581)	1:53:A:MET:HA	1:119:A:VAL:HG12	4	0.65
(1,2496)	1:140:A:ILE:HD11	1:128:A:ARG:HD3	8	0.65
(1,2394)	1:159:A:GLU:HG2	1:155:A:SER:HB2	3	0.65
(1,2381)	1:35:A:GLU:HG2	1:32:A:ALA:HB1	11	0.65
(1,2352)	1:130:A:VAL:HG12	1:133:A:GLU:HG2	8	0.65
(1,2324)	1:89:A:VAL:HG11	1:87:A:LYS:HB3	1	0.65
(1,2309)	1:168:A:GLN:HB3	1:168:A:GLN:HG3	3	0.65
(1,2309)	1:168:A:GLN:HB3	1:168:A:GLN:HG3	9	0.65
(1,2167)	1:67:A:LYS:HD3	1:67:A:LYS:H	1	0.65
(1,2167)	1:67:A:LYS:HD3	1:67:A:LYS:H	5	0.65
(1,2160)	1:107:A:LYS:HD3	1:109:A:ILE:HG23	1	0.65
(1,2141)	1:56:A:LYS:HD3	1:144:A:MET:HE2	1	0.65
(1,2046)	1:79:A:LEU:HD12	1:100:A:PHE:HA	7	0.65
(1,2046)	1:79:A:LEU:HD12	1:100:A:PHE:HA	18	0.65
(1,2031)	1:124:A:LYS:HG3	1:123:A:LYS:HD3	6	0.65
(1,2031)	1:124:A:LYS:HG3	1:123:A:LYS:HD3	17	0.65
(1,2022)	1:93:A:LEU:HD11	1:72:A:VAL:H	11	0.65
(1,2016)	1:93:A:LEU:HD13	1:98:A:LEU:HG	1	0.65
(1,2014)	1:93:A:LEU:HD12	1:98:A:LEU:HD23	17	0.65
(1,1995)	1:174:A:LEU:HD11	1:12:A:ASP:HB2	14	0.65
(1,1981)	1:71:A:LEU:HD22	1:40:A:LEU:HB3	3	0.65
(1,1981)	1:71:A:LEU:HD22	1:40:A:LEU:HB3	12	0.65
(1,1965)	1:46:A:LYS:HG3	1:108:A:TYR:HE2	10	0.65
(1,1939)	1:50:A:LYS:HG3	1:60:A:MET:HE2	14	0.65
(1,1867)	1:19:A:LEU:HD21	1:19:A:LEU:HA	13	0.65
(1,1851)	1:170:A:THR:HG21	1:95:A:THR:HB	1	0.65
(1,1851)	1:170:A:THR:HG21	1:95:A:THR:HB	12	0.65
(1,1828)	1:3:A:THR:HG23	1:3:A:THR:HA	4	0.65
(1,1762)	1:99:A:VAL:HG11	1:66:A:LEU:HD12	18	0.65
(1,1760)	1:99:A:VAL:HG12	1:101:A:LEU:HD11	18	0.65
(1,1742)	1:119:A:VAL:HG13	1:110:A:PHE:HE1	9	0.65
(1,1742)	1:119:A:VAL:HG11	1:110:A:PHE:HE1	13	0.65
(1,1739)	1:119:A:VAL:HG11	1:53:A:MET:HB2	3	0.65
(1,1739)	1:119:A:VAL:HG12	1:53:A:MET:HB2	14	0.65
(1,1728)	1:31:A:VAL:HG12	1:35:A:GLU:HG3	6	0.65
(1,1716)	1:119:A:VAL:HG22	1:55:A:MET:HG3	8	0.65
(1,1716)	1:119:A:VAL:HG22	1:55:A:MET:HG3	11	0.65
(1,1661)	1:120:A:ILE:HG22	1:120:A:ILE:HG12	13	0.65
(1,1654)	1:140:A:ILE:HG22	1:126:A:ILE:HG13	15	0.65
(1,1631)	1:126:A:ILE:HG21	1:126:A:ILE:HG13	16	0.65
(1,1566)	1:97:A:ILE:HD12	1:121:A:SER:HA	11	0.65
(1,1560)	1:97:A:ILE:HD11	1:69:A:LYS:HE3	17	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1530)	1:167:A:ILE:HD12	1:168:A:GLN:HB3	6	0.65
(1,1386)	1:175:A:ASN:HD21	1:171:A:ILE:HG22	16	0.65
(1,1318)	1:4:A:LYS:H	1:6:A:ASN:HD22	7	0.65
(1,1208)	1:25:A:GLY:H	1:24:A:ILE:HD11	17	0.65
(1,1189)	1:64:A:GLU:H	1:64:A:GLU:HB3	3	0.65
(1,1184)	1:109:A:ILE:H	1:109:A:ILE:HD12	2	0.65
(1,1184)	1:109:A:ILE:H	1:109:A:ILE:HD12	17	0.65
(1,1163)	1:112:A:SER:H	1:111:A:ALA:HB3	2	0.65
(1,1163)	1:112:A:SER:H	1:111:A:ALA:HB1	3	0.65
(1,1163)	1:112:A:SER:H	1:111:A:ALA:HB2	10	0.65
(1,1151)	1:175:A:ASN:H	1:174:A:LEU:HD23	18	0.65
(1,1038)	1:170:A:THR:H	1:170:A:THR:HG22	4	0.65
(1,920)	1:31:A:VAL:H	1:32:A:ALA:HB1	4	0.65
(1,735)	1:99:A:VAL:H	1:99:A:VAL:HG23	9	0.65
(1,735)	1:99:A:VAL:H	1:99:A:VAL:HG21	16	0.65
(1,735)	1:99:A:VAL:H	1:99:A:VAL:HG22	18	0.65
(1,584)	1:185:A:GLU:H	1:184:A:SER:HA	19	0.65
(1,497)	1:139:A:LEU:HA	1:128:A:ARG:HB2	10	0.65
(1,472)	1:135:A:LYS:HE2	1:135:A:LYS:HB3	12	0.65
(1,460)	1:29:A:SER:HA	1:20:A:VAL:HG21	17	0.65
(1,455)	1:151:A:GLU:HB2	1:116:A:LYS:HD3	15	0.65
(1,432)	1:67:A:LYS:HE3	1:44:A:TYR:HD1	16	0.65
(1,397)	1:109:A:ILE:HA	1:110:A:PHE:HE2	4	0.65
(1,388)	1:128:A:ARG:HB3	1:126:A:ILE:HD11	6	0.65
(1,375)	1:49:A:SER:HB3	1:63:A:LYS:HE3	8	0.65
(1,375)	1:49:A:SER:HB3	1:63:A:LYS:HE3	15	0.65
(1,337)	1:184:A:SER:HA	1:55:A:MET:HB3	6	0.65
(1,290)	1:83:A:ALA:HB3	1:85:A:ARG:HD3	4	0.65
(1,290)	1:83:A:ALA:HB1	1:85:A:ARG:HD3	8	0.65
(1,175)	1:67:A:LYS:HG3	1:37:A:LYS:HG2	19	0.65
(1,160)	1:71:A:LEU:HD13	1:74:A:ASP:HA	8	0.65
(1,160)	1:71:A:LEU:HD11	1:74:A:ASP:HA	19	0.65
(1,159)	1:71:A:LEU:HD12	1:94:A:LEU:HA	3	0.65
(1,137)	1:67:A:LYS:HG2	1:68:A:ARG:HB2	12	0.65
(1,15)	1:128:A:ARG:H	1:139:A:LEU:HD21	5	0.65
(1,15)	1:128:A:ARG:H	1:139:A:LEU:HD21	9	0.65
(1,12)	1:140:A:ILE:H	1:127:A:VAL:HB	16	0.65
(2,23)	1:163:A:TRP:H	1:159:A:GLU:O	1	0.64
(2,18)	1:152:A:VAL:H	1:137:A:LEU:O	8	0.64
(2,17)	1:140:A:ILE:H	1:126:A:ILE:O	19	0.64
(2,15)	1:109:A:ILE:H	1:102:A:GLN:O	15	0.64
(2,15)	1:109:A:ILE:H	1:102:A:GLN:O	20	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,9)	1:93:A:LEU:H	1:73:A:ARG:O	5	0.64
(2,2)	1:72:A:VAL:H	1:93:A:LEU:O	17	0.64
(1,3507)	1:43:A:ILE:HD13	1:108:A:TYR:HE2	7	0.64
(1,3448)	1:34:A:TYR:HD1	1:38:A:VAL:HG21	3	0.64
(1,3387)	1:94:A:LEU:HD13	1:97:A:ILE:HD11	18	0.64
(1,3369)	1:174:A:LEU:HD21	1:95:A:THR:HG23	10	0.64
(1,3352)	1:101:A:LEU:HD12	1:100:A:PHE:HA	15	0.64
(1,3352)	1:101:A:LEU:HD13	1:100:A:PHE:HA	19	0.64
(1,3341)	1:55:A:MET:HE3	1:61:A:PHE:HB2	17	0.64
(1,3325)	1:112:A:SER:HA	1:53:A:MET:HE1	4	0.64
(1,3310)	1:45:A:THR:HB	1:42:A:GLU:HB2	10	0.64
(1,3310)	1:45:A:THR:HB	1:42:A:GLU:HB2	18	0.64
(1,3308)	1:53:A:MET:HE3	1:119:A:VAL:H	8	0.64
(1,3263)	1:149:A:MET:HE2	1:142:A:MET:HE3	3	0.64
(1,3260)	1:171:A:ILE:HA	1:125:A:LEU:HD11	15	0.64
(1,3175)	1:33:A:SER:HB3	1:33:A:SER:HA	1	0.64
(1,3175)	1:33:A:SER:HB3	1:33:A:SER:HA	20	0.64
(1,3152)	1:97:A:ILE:HD12	1:65:A:ASP:HB3	1	0.64
(1,3142)	1:89:A:VAL:HG12	1:87:A:LYS:HE3	13	0.64
(1,3015)	1:151:A:GLU:HG2	1:80:A:LYS:HB3	20	0.64
(1,2995)	1:24:A:ILE:HG13	1:24:A:ILE:HA	5	0.64
(1,2995)	1:24:A:ILE:HG13	1:24:A:ILE:HA	15	0.64
(1,2995)	1:24:A:ILE:HG13	1:24:A:ILE:HA	17	0.64
(1,2995)	1:24:A:ILE:HG13	1:24:A:ILE:HA	19	0.64
(1,2951)	1:144:A:MET:HE3	1:144:A:MET:HA	13	0.64
(1,2924)	1:166:A:ILE:HD11	1:163:A:TRP:HA	20	0.64
(1,2833)	1:63:A:LYS:HD2	1:49:A:SER:HB2	3	0.64
(1,2833)	1:63:A:LYS:HD2	1:49:A:SER:HB2	19	0.64
(1,2773)	1:77:A:VAL:HA	1:152:A:VAL:HG11	20	0.64
(1,2720)	1:41:A:ASN:HA	1:44:A:TYR:HE1	6	0.64
(1,2715)	1:4:A:LYS:HA	1:8:A:VAL:HG13	1	0.64
(1,2653)	1:80:A:LYS:HA	1:80:A:LYS:HD3	6	0.64
(1,2641)	1:85:A:ARG:HA	1:86:A:LEU:HD11	19	0.64
(1,2629)	1:137:A:LEU:HA	1:130:A:VAL:HG22	2	0.64
(1,2621)	1:86:A:LEU:HD11	1:86:A:LEU:HA	11	0.64
(1,2621)	1:86:A:LEU:HD12	1:86:A:LEU:HA	18	0.64
(1,2621)	1:86:A:LEU:HD12	1:86:A:LEU:HA	20	0.64
(1,2419)	1:106:A:GLN:HG3	1:105:A:ASP:HB3	14	0.64
(1,2282)	1:119:A:VAL:HB	1:97:A:ILE:HG21	13	0.64
(1,2258)	1:56:A:LYS:HD3	1:56:A:LYS:HB3	17	0.64
(1,2206)	1:165:A:GLN:HB2	1:164:A:ILE:HG21	2	0.64
(1,2206)	1:165:A:GLN:HB2	1:164:A:ILE:HG22	5	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2206)	1:165:A:GLN:HB2	1:164:A:ILE:HG21	6	0.64
(1,2206)	1:165:A:GLN:HB2	1:164:A:ILE:HG21	12	0.64
(1,2206)	1:165:A:GLN:HB2	1:164:A:ILE:HG21	16	0.64
(1,2206)	1:165:A:GLN:HB2	1:164:A:ILE:HG21	18	0.64
(1,2206)	1:165:A:GLN:HB2	1:164:A:ILE:HG22	19	0.64
(1,2167)	1:67:A:LYS:HD3	1:67:A:LYS:H	20	0.64
(1,2149)	1:168:A:GLN:HB3	1:165:A:GLN:HA	2	0.64
(1,2149)	1:168:A:GLN:HB3	1:165:A:GLN:HA	15	0.64
(1,2077)	1:182:A:ILE:HG13	1:182:A:ILE:HG22	13	0.64
(1,2030)	1:124:A:LYS:HG3	1:123:A:LYS:HB3	5	0.64
(1,2022)	1:93:A:LEU:HD13	1:72:A:VAL:H	3	0.64
(1,2019)	1:170:A:THR:HG23	1:93:A:LEU:HD11	17	0.64
(1,1988)	1:174:A:LEU:HD12	1:95:A:THR:HG23	7	0.64
(1,1939)	1:50:A:LYS:HG3	1:60:A:MET:HE3	9	0.64
(1,1926)	1:19:A:LEU:HD12	1:18:A:SER:HB2	19	0.64
(1,1904)	1:86:A:LEU:HD12	1:153:A:HIS:HD2	14	0.64
(1,1867)	1:19:A:LEU:HD21	1:19:A:LEU:HA	9	0.64
(1,1864)	1:95:A:THR:HG22	1:72:A:VAL:HB	10	0.64
(1,1859)	1:62:A:ALA:HB2	1:110:A:PHE:HZ	2	0.64
(1,1828)	1:3:A:THR:HG23	1:3:A:THR:HA	8	0.64
(1,1819)	1:79:A:LEU:HD22	1:150:A:VAL:HG12	13	0.64
(1,1794)	1:113:A:LEU:HD23	1:79:A:LEU:HB2	17	0.64
(1,1762)	1:99:A:VAL:HG11	1:66:A:LEU:HD13	20	0.64
(1,1742)	1:119:A:VAL:HG11	1:110:A:PHE:HE1	5	0.64
(1,1742)	1:119:A:VAL:HG13	1:110:A:PHE:HE1	17	0.64
(1,1716)	1:119:A:VAL:HG21	1:55:A:MET:HG3	10	0.64
(1,1698)	1:91:A:ALA:HB1	1:98:A:LEU:HD21	20	0.64
(1,1636)	1:126:A:ILE:HD12	1:140:A:ILE:HG12	6	0.64
(1,1631)	1:126:A:ILE:HG23	1:126:A:ILE:HG13	11	0.64
(1,1575)	1:164:A:ILE:HD13	1:161:A:ASN:HB3	6	0.64
(1,1568)	1:171:A:ILE:HD13	1:93:A:LEU:HD11	5	0.64
(1,1566)	1:97:A:ILE:HD11	1:121:A:SER:HA	10	0.64
(1,1566)	1:97:A:ILE:HD12	1:121:A:SER:HA	14	0.64
(1,1564)	1:97:A:ILE:HD11	1:97:A:ILE:H	19	0.64
(1,1560)	1:97:A:ILE:HD11	1:69:A:LYS:HE3	7	0.64
(1,1525)	1:166:A:ILE:HD13	1:169:A:ASP:HB3	6	0.64
(1,1470)	1:37:A:LYS:H	1:38:A:VAL:HG13	6	0.64
(1,1378)	1:41:A:ASN:HD22	1:45:A:THR:HG23	10	0.64
(1,1225)	1:156:A:SER:H	1:156:A:SER:HB2	16	0.64
(1,1184)	1:109:A:ILE:H	1:109:A:ILE:HD11	4	0.64
(1,1184)	1:109:A:ILE:H	1:109:A:ILE:HD11	16	0.64
(1,1163)	1:112:A:SER:H	1:111:A:ALA:HB2	13	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,962)	1:77:A:VAL:H	1:76:A:SER:HB3	20	0.64
(1,920)	1:31:A:VAL:H	1:32:A:ALA:HB3	11	0.64
(1,920)	1:31:A:VAL:H	1:32:A:ALA:HB2	14	0.64
(1,920)	1:31:A:VAL:H	1:32:A:ALA:HB3	18	0.64
(1,851)	1:159:A:GLU:H	1:158:A:GLU:HB2	12	0.64
(1,735)	1:99:A:VAL:H	1:99:A:VAL:HG21	3	0.64
(1,735)	1:99:A:VAL:H	1:99:A:VAL:HG21	6	0.64
(1,735)	1:99:A:VAL:H	1:99:A:VAL:HG23	11	0.64
(1,627)	1:98:A:LEU:H	1:97:A:ILE:HG12	4	0.64
(1,627)	1:98:A:LEU:H	1:97:A:ILE:HG12	8	0.64
(1,573)	1:113:A:LEU:H	1:112:A:SER:HB2	1	0.64
(1,463)	1:139:A:LEU:HD23	1:120:A:ILE:H	6	0.64
(1,443)	1:21:A:LYS:HE3	1:20:A:VAL:HG21	10	0.64
(1,397)	1:109:A:ILE:HA	1:110:A:PHE:HE2	12	0.64
(1,397)	1:109:A:ILE:HA	1:110:A:PHE:HE2	17	0.64
(1,320)	1:138:A:PHE:HA	1:139:A:LEU:HD22	1	0.64
(1,320)	1:138:A:PHE:HA	1:139:A:LEU:HD21	10	0.64
(1,320)	1:138:A:PHE:HA	1:139:A:LEU:HD23	15	0.64
(1,300)	1:73:A:ARG:HD2	1:163:A:TRP:HH2	10	0.64
(1,297)	1:19:A:LEU:HB3	1:18:A:SER:HB2	13	0.64
(1,296)	1:19:A:LEU:HB2	1:15:A:GLN:HA	20	0.64
(1,210)	1:70:A:LYS:HD2	1:8:A:VAL:HG21	1	0.64
(1,210)	1:70:A:LYS:HD2	1:8:A:VAL:HG23	16	0.64
(1,175)	1:67:A:LYS:HG3	1:37:A:LYS:HG2	20	0.64
(1,170)	1:107:A:LYS:HG3	1:46:A:LYS:HA	19	0.64
(1,161)	1:71:A:LEU:HD12	1:93:A:LEU:H	16	0.64
(1,137)	1:67:A:LYS:HG2	1:68:A:ARG:HB2	10	0.64
(1,125)	1:62:A:ALA:HB2	1:64:A:GLU:HG3	17	0.64
(1,101)	1:164:A:ILE:HD13	1:129:A:GLU:HB3	19	0.64
(1,65)	1:15:A:GLN:H	1:15:A:GLN:HG2	11	0.64
(1,58)	1:13:A:LEU:H	1:19:A:LEU:HD12	1	0.64
(1,47)	1:175:A:ASN:H	1:173:A:THR:HG21	2	0.64
(1,5)	1:120:A:ILE:H	1:97:A:ILE:HG23	13	0.64
(2,27)	1:171:A:ILE:H	1:167:A:ILE:O	2	0.63
(2,25)	1:168:A:GLN:H	1:164:A:ILE:O	10	0.63
(2,25)	1:168:A:GLN:H	1:164:A:ILE:O	12	0.63
(2,23)	1:163:A:TRP:H	1:159:A:GLU:O	5	0.63
(2,23)	1:163:A:TRP:H	1:159:A:GLU:O	16	0.63
(2,15)	1:109:A:ILE:H	1:102:A:GLN:O	16	0.63
(2,12)	1:99:A:VAL:H	1:92:A:VAL:O	4	0.63
(2,9)	1:93:A:LEU:H	1:73:A:ARG:O	3	0.63
(2,2)	1:72:A:VAL:H	1:93:A:LEU:O	3	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3408)	1:52:A:ILE:HG23	1:61:A:PHE:HD2	8	0.63
(1,3399)	1:125:A:LEU:HD21	1:170:A:THR:HB	13	0.63
(1,3397)	1:45:A:THR:HG21	1:42:A:GLU:HG3	16	0.63
(1,3392)	1:154:A:ALA:HB1	1:160:A:ARG:HB2	18	0.63
(1,3352)	1:101:A:LEU:HD11	1:100:A:PHE:HA	12	0.63
(1,3325)	1:112:A:SER:HA	1:53:A:MET:HE3	5	0.63
(1,3325)	1:112:A:SER:HA	1:53:A:MET:HE1	15	0.63
(1,3310)	1:45:A:THR:HB	1:42:A:GLU:HB2	3	0.63
(1,3310)	1:45:A:THR:HB	1:42:A:GLU:HB2	11	0.63
(1,3310)	1:45:A:THR:HB	1:42:A:GLU:HB2	19	0.63
(1,3263)	1:149:A:MET:HE3	1:142:A:MET:HE3	8	0.63
(1,3191)	1:33:A:SER:HA	1:32:A:ALA:HB3	2	0.63
(1,3191)	1:33:A:SER:HA	1:32:A:ALA:HB2	16	0.63
(1,3175)	1:33:A:SER:HB3	1:33:A:SER:HA	3	0.63
(1,3152)	1:97:A:ILE:HD12	1:65:A:ASP:HB3	15	0.63
(1,2995)	1:24:A:ILE:HG13	1:24:A:ILE:HA	14	0.63
(1,2995)	1:24:A:ILE:HG13	1:24:A:ILE:HA	16	0.63
(1,2995)	1:24:A:ILE:HG13	1:24:A:ILE:HA	18	0.63
(1,2945)	1:53:A:MET:HE2	1:52:A:ILE:HG21	14	0.63
(1,2898)	1:149:A:MET:HB3	1:138:A:PHE:HD1	8	0.63
(1,2833)	1:63:A:LYS:HD2	1:49:A:SER:HB2	18	0.63
(1,2773)	1:77:A:VAL:HA	1:152:A:VAL:HG12	14	0.63
(1,2728)	1:127:A:VAL:HA	1:137:A:LEU:HD22	7	0.63
(1,2728)	1:127:A:VAL:HA	1:137:A:LEU:HD21	10	0.63
(1,2712)	1:46:A:LYS:HA	1:107:A:LYS:HB3	2	0.63
(1,2664)	1:68:A:ARG:HA	1:68:A:ARG:HG2	20	0.63
(1,2653)	1:80:A:LYS:HA	1:80:A:LYS:HD3	5	0.63
(1,2641)	1:85:A:ARG:HA	1:86:A:LEU:HD12	9	0.63
(1,2641)	1:85:A:ARG:HA	1:86:A:LEU:HD13	10	0.63
(1,2641)	1:85:A:ARG:HA	1:86:A:LEU:HD13	20	0.63
(1,2629)	1:137:A:LEU:HA	1:130:A:VAL:HG23	9	0.63
(1,2629)	1:137:A:LEU:HA	1:130:A:VAL:HG23	17	0.63
(1,2621)	1:86:A:LEU:HD12	1:86:A:LEU:HA	5	0.63
(1,2621)	1:86:A:LEU:HD13	1:86:A:LEU:HA	12	0.63
(1,2472)	1:157:A:LYS:HG2	1:157:A:LYS:HE3	3	0.63
(1,2472)	1:157:A:LYS:HG2	1:157:A:LYS:HE3	12	0.63
(1,2394)	1:159:A:GLU:HG2	1:155:A:SER:HB2	1	0.63
(1,2394)	1:159:A:GLU:HG2	1:155:A:SER:HB2	20	0.63
(1,2324)	1:89:A:VAL:HG13	1:87:A:LYS:HB3	3	0.63
(1,2324)	1:89:A:VAL:HG12	1:87:A:LYS:HB3	16	0.63
(1,2206)	1:165:A:GLN:HB2	1:164:A:ILE:HG22	7	0.63
(1,2206)	1:165:A:GLN:HB2	1:164:A:ILE:HG22	17	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2167)	1:67:A:LYS:HD3	1:67:A:LYS:H	2	0.63
(1,2144)	1:36:A:LYS:HD2	1:36:A:LYS:HB3	20	0.63
(1,2116)	1:176:A:ARG:HG3	1:11:A:GLU:HB3	13	0.63
(1,2077)	1:182:A:ILE:HG13	1:182:A:ILE:HG21	10	0.63
(1,2030)	1:124:A:LYS:HG3	1:123:A:LYS:HB3	11	0.63
(1,2022)	1:93:A:LEU:HD11	1:72:A:VAL:H	8	0.63
(1,2019)	1:170:A:THR:HG22	1:93:A:LEU:HD12	7	0.63
(1,2014)	1:93:A:LEU:HD11	1:98:A:LEU:HD21	9	0.63
(1,1939)	1:50:A:LYS:HG3	1:60:A:MET:HE3	6	0.63
(1,1939)	1:50:A:LYS:HG3	1:60:A:MET:HE1	7	0.63
(1,1939)	1:50:A:LYS:HG3	1:60:A:MET:HE3	17	0.63
(1,1935)	1:56:A:LYS:HG2	1:121:A:SER:HB2	20	0.63
(1,1904)	1:86:A:LEU:HD11	1:153:A:HIS:HD2	5	0.63
(1,1904)	1:86:A:LEU:HD12	1:153:A:HIS:HD2	17	0.63
(1,1859)	1:62:A:ALA:HB3	1:110:A:PHE:HZ	13	0.63
(1,1828)	1:3:A:THR:HG21	1:3:A:THR:HA	2	0.63
(1,1828)	1:3:A:THR:HG21	1:3:A:THR:HA	12	0.63
(1,1799)	1:127:A:VAL:HG12	1:137:A:LEU:HD22	7	0.63
(1,1778)	1:89:A:VAL:HG13	1:100:A:PHE:HD1	13	0.63
(1,1760)	1:99:A:VAL:HG11	1:101:A:LEU:HD13	1	0.63
(1,1728)	1:31:A:VAL:HG13	1:35:A:GLU:HG3	4	0.63
(1,1716)	1:119:A:VAL:HG23	1:55:A:MET:HG3	1	0.63
(1,1716)	1:119:A:VAL:HG21	1:55:A:MET:HG3	16	0.63
(1,1666)	1:97:A:ILE:HG22	1:119:A:VAL:HG22	17	0.63
(1,1654)	1:140:A:ILE:HG22	1:126:A:ILE:HG13	3	0.63
(1,1631)	1:126:A:ILE:HG23	1:126:A:ILE:HG13	5	0.63
(1,1631)	1:126:A:ILE:HG23	1:126:A:ILE:HG13	12	0.63
(1,1631)	1:126:A:ILE:HG23	1:126:A:ILE:HG13	20	0.63
(1,1560)	1:97:A:ILE:HD12	1:69:A:LYS:HE3	11	0.63
(1,1530)	1:167:A:ILE:HD11	1:168:A:GLN:HB3	1	0.63
(1,1530)	1:167:A:ILE:HD11	1:168:A:GLN:HB3	4	0.63
(1,1410)	1:172:A:ASN:HD22	1:168:A:GLN:HG3	5	0.63
(1,1386)	1:175:A:ASN:HD21	1:171:A:ILE:HG23	8	0.63
(1,1378)	1:41:A:ASN:HD22	1:45:A:THR:HG23	17	0.63
(1,1342)	1:100:A:PHE:H	1:98:A:LEU:HD23	6	0.63
(1,1318)	1:4:A:LYS:H	1:6:A:ASN:HD22	15	0.63
(1,1208)	1:25:A:GLY:H	1:24:A:ILE:HD11	5	0.63
(1,1151)	1:175:A:ASN:H	1:174:A:LEU:HD22	9	0.63
(1,1038)	1:170:A:THR:H	1:170:A:THR:HG23	19	0.63
(1,920)	1:31:A:VAL:H	1:32:A:ALA:HB3	13	0.63
(1,851)	1:159:A:GLU:H	1:158:A:GLU:HB2	8	0.63
(1,735)	1:99:A:VAL:H	1:99:A:VAL:HG21	12	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,735)	1:99:A:VAL:H	1:99:A:VAL:HG22	20	0.63
(1,712)	1:74:A:ASP:H	1:71:A:LEU:HD11	16	0.63
(1,667)	1:24:A:ILE:H	1:27:A:VAL:HG23	7	0.63
(1,611)	1:81:A:ASN:H	1:86:A:LEU:HD21	13	0.63
(1,568)	1:88:A:GLU:H	1:78:A:PHE:HD2	2	0.63
(1,568)	1:88:A:GLU:H	1:78:A:PHE:HD2	3	0.63
(1,455)	1:151:A:GLU:HB2	1:116:A:LYS:HD2	13	0.63
(1,432)	1:67:A:LYS:HE3	1:44:A:TYR:HD2	12	0.63
(1,432)	1:67:A:LYS:HE3	1:44:A:TYR:HD2	13	0.63
(1,432)	1:67:A:LYS:HE3	1:44:A:TYR:HD1	17	0.63
(1,405)	1:43:A:ILE:HD13	1:39:A:ARG:HG3	2	0.63
(1,360)	1:52:A:ILE:HA	1:60:A:MET:HE2	8	0.63
(1,348)	1:162:A:SER:HB2	1:161:A:ASN:HB3	3	0.63
(1,348)	1:162:A:SER:HB2	1:161:A:ASN:HB3	5	0.63
(1,347)	1:162:A:SER:HB3	1:166:A:ILE:HD11	7	0.63
(1,345)	1:159:A:GLU:HG2	1:162:A:SER:HB2	9	0.63
(1,318)	1:125:A:LEU:HA	1:126:A:ILE:HG23	18	0.63
(1,286)	1:39:A:ARG:HD2	1:71:A:LEU:HD23	4	0.63
(1,226)	1:85:A:ARG:HB2	1:85:A:ARG:HD2	15	0.63
(1,208)	1:93:A:LEU:HD21	1:73:A:ARG:HB2	17	0.63
(1,175)	1:67:A:LYS:HG3	1:37:A:LYS:HG2	1	0.63
(1,170)	1:107:A:LYS:HG3	1:46:A:LYS:HA	16	0.63
(1,160)	1:71:A:LEU:HD12	1:74:A:ASP:HA	12	0.63
(1,125)	1:62:A:ALA:HB3	1:64:A:GLU:HG3	6	0.63
(1,124)	1:45:A:THR:HG23	1:46:A:LYS:HB3	16	0.63
(1,15)	1:128:A:ARG:H	1:139:A:LEU:HD22	4	0.63
(1,5)	1:120:A:ILE:H	1:97:A:ILE:HG22	15	0.63
(2,25)	1:168:A:GLN:H	1:164:A:ILE:O	5	0.62
(2,25)	1:168:A:GLN:H	1:164:A:ILE:O	11	0.62
(2,25)	1:168:A:GLN:H	1:164:A:ILE:O	17	0.62
(2,23)	1:163:A:TRP:H	1:159:A:GLU:O	6	0.62
(2,23)	1:163:A:TRP:H	1:159:A:GLU:O	9	0.62
(2,23)	1:163:A:TRP:H	1:159:A:GLU:O	14	0.62
(2,2)	1:72:A:VAL:H	1:93:A:LEU:O	7	0.62
(1,3361)	1:157:A:LYS:HA	1:160:A:ARG:HB2	20	0.62
(1,3352)	1:101:A:LEU:HD13	1:100:A:PHE:HA	2	0.62
(1,3352)	1:101:A:LEU:HD11	1:100:A:PHE:HA	6	0.62
(1,3341)	1:55:A:MET:HE3	1:61:A:PHE:HB2	20	0.62
(1,3310)	1:45:A:THR:HB	1:42:A:GLU:HB2	4	0.62
(1,3310)	1:45:A:THR:HB	1:42:A:GLU:HB2	6	0.62
(1,3310)	1:45:A:THR:HB	1:42:A:GLU:HB2	12	0.62
(1,3310)	1:45:A:THR:HB	1:42:A:GLU:HB2	14	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3307)	1:53:A:MET:HE1	1:61:A:PHE:HE1	1	0.62
(1,3260)	1:171:A:ILE:HA	1:125:A:LEU:HD13	1	0.62
(1,3260)	1:171:A:ILE:HA	1:125:A:LEU:HD11	10	0.62
(1,3260)	1:171:A:ILE:HA	1:125:A:LEU:HD11	13	0.62
(1,3260)	1:171:A:ILE:HA	1:125:A:LEU:HD11	16	0.62
(1,3242)	1:113:A:LEU:HD13	1:81:A:ASN:H	12	0.62
(1,3198)	1:101:A:LEU:HD23	1:110:A:PHE:HZ	7	0.62
(1,3191)	1:33:A:SER:HA	1:32:A:ALA:HB3	10	0.62
(1,3019)	1:115:A:GLN:HG2	1:114:A:ASP:HB2	19	0.62
(1,2995)	1:24:A:ILE:HG13	1:24:A:ILE:HA	3	0.62
(1,2995)	1:24:A:ILE:HG13	1:24:A:ILE:HA	4	0.62
(1,2994)	1:11:A:GLU:HG2	1:11:A:GLU:HA	20	0.62
(1,2959)	1:110:A:PHE:HB2	1:119:A:VAL:HG12	2	0.62
(1,2945)	1:53:A:MET:HE3	1:52:A:ILE:HG22	10	0.62
(1,2945)	1:53:A:MET:HE2	1:52:A:ILE:HG22	15	0.62
(1,2898)	1:149:A:MET:HB3	1:138:A:PHE:HD1	11	0.62
(1,2836)	1:141:A:SER:HB2	1:147:A:PRO:HB2	3	0.62
(1,2826)	1:147:A:PRO:HA	1:140:A:ILE:HG21	4	0.62
(1,2739)	1:123:A:LYS:HD3	1:123:A:LYS:HA	5	0.62
(1,2737)	1:134:A:GLU:HA	1:157:A:LYS:HG3	10	0.62
(1,2728)	1:127:A:VAL:HA	1:137:A:LEU:HD23	14	0.62
(1,2728)	1:127:A:VAL:HA	1:137:A:LEU:HD23	16	0.62
(1,2641)	1:85:A:ARG:HA	1:86:A:LEU:HD13	2	0.62
(1,2641)	1:85:A:ARG:HA	1:86:A:LEU:HD12	6	0.62
(1,2641)	1:85:A:ARG:HA	1:86:A:LEU:HD12	7	0.62
(1,2641)	1:85:A:ARG:HA	1:86:A:LEU:HD12	8	0.62
(1,2629)	1:137:A:LEU:HA	1:130:A:VAL:HG21	16	0.62
(1,2594)	1:14:A:ALA:HA	1:19:A:LEU:HB2	11	0.62
(1,2541)	1:136:A:GLY:HA2	1:130:A:VAL:HB	1	0.62
(1,2541)	1:136:A:GLY:HA2	1:130:A:VAL:HB	18	0.62
(1,2496)	1:140:A:ILE:HD13	1:128:A:ARG:HD3	12	0.62
(1,2496)	1:140:A:ILE:HD11	1:128:A:ARG:HD3	15	0.62
(1,2477)	1:80:A:LYS:HE3	1:80:A:LYS:HB2	16	0.62
(1,2394)	1:159:A:GLU:HG2	1:155:A:SER:HB2	5	0.62
(1,2324)	1:89:A:VAL:HG11	1:87:A:LYS:HB3	13	0.62
(1,2282)	1:119:A:VAL:HB	1:97:A:ILE:HG23	8	0.62
(1,2282)	1:119:A:VAL:HB	1:97:A:ILE:HG22	17	0.62
(1,2206)	1:165:A:GLN:HB2	1:164:A:ILE:HG21	14	0.62
(1,2189)	1:171:A:ILE:HG23	1:123:A:LYS:HD3	8	0.62
(1,2189)	1:171:A:ILE:HG22	1:123:A:LYS:HD3	10	0.62
(1,2077)	1:182:A:ILE:HG13	1:182:A:ILE:HG21	3	0.62
(1,2077)	1:182:A:ILE:HG13	1:182:A:ILE:HG21	11	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2030)	1:124:A:LYS:HG3	1:123:A:LYS:HB3	15	0.62
(1,1988)	1:174:A:LEU:HD13	1:95:A:THR:HG22	15	0.62
(1,1958)	1:66:A:LEU:HD13	1:44:A:TYR:HB2	7	0.62
(1,1949)	1:94:A:LEU:HD23	1:69:A:LYS:HA	15	0.62
(1,1939)	1:50:A:LYS:HG3	1:60:A:MET:HE1	16	0.62
(1,1904)	1:86:A:LEU:HD12	1:153:A:HIS:HD2	12	0.62
(1,1867)	1:19:A:LEU:HD22	1:19:A:LEU:HA	2	0.62
(1,1867)	1:19:A:LEU:HD21	1:19:A:LEU:HA	19	0.62
(1,1859)	1:62:A:ALA:HB2	1:110:A:PHE:HZ	18	0.62
(1,1819)	1:79:A:LEU:HD21	1:150:A:VAL:HG12	19	0.62
(1,1762)	1:99:A:VAL:HG12	1:66:A:LEU:HD12	7	0.62
(1,1739)	1:119:A:VAL:HG11	1:53:A:MET:HB2	1	0.62
(1,1739)	1:119:A:VAL:HG12	1:53:A:MET:HB2	7	0.62
(1,1680)	1:130:A:VAL:HG22	1:136:A:GLY:HA2	10	0.62
(1,1666)	1:97:A:ILE:HG21	1:119:A:VAL:HG21	5	0.62
(1,1654)	1:140:A:ILE:HG21	1:126:A:ILE:HG13	1	0.62
(1,1631)	1:126:A:ILE:HG22	1:126:A:ILE:HG13	1	0.62
(1,1631)	1:126:A:ILE:HG23	1:126:A:ILE:HG13	2	0.62
(1,1631)	1:126:A:ILE:HG23	1:126:A:ILE:HG13	3	0.62
(1,1631)	1:126:A:ILE:HG23	1:126:A:ILE:HG13	14	0.62
(1,1631)	1:126:A:ILE:HG23	1:126:A:ILE:HG13	15	0.62
(1,1631)	1:126:A:ILE:HG22	1:126:A:ILE:HG13	17	0.62
(1,1575)	1:164:A:ILE:HD12	1:161:A:ASN:HB3	5	0.62
(1,1530)	1:167:A:ILE:HD11	1:168:A:GLN:HB3	7	0.62
(1,1525)	1:166:A:ILE:HD11	1:169:A:ASP:HB3	11	0.62
(1,1464)	1:180:A:GLU:H	1:180:A:GLU:HG2	4	0.62
(1,1318)	1:4:A:LYS:H	1:6:A:ASN:HD22	2	0.62
(1,1318)	1:4:A:LYS:H	1:6:A:ASN:HD22	10	0.62
(1,1163)	1:112:A:SER:H	1:111:A:ALA:HB2	11	0.62
(1,920)	1:31:A:VAL:H	1:32:A:ALA:HB1	7	0.62
(1,896)	1:176:A:ARG:H	1:176:A:ARG:HG2	3	0.62
(1,851)	1:159:A:GLU:H	1:158:A:GLU:HB2	14	0.62
(1,735)	1:99:A:VAL:H	1:99:A:VAL:HG21	5	0.62
(1,735)	1:99:A:VAL:H	1:99:A:VAL:HG21	15	0.62
(1,735)	1:99:A:VAL:H	1:99:A:VAL:HG21	19	0.62
(1,627)	1:98:A:LEU:H	1:97:A:ILE:HG12	9	0.62
(1,586)	1:185:A:GLU:H	1:184:A:SER:HB2	3	0.62
(1,455)	1:151:A:GLU:HB2	1:116:A:LYS:HD3	17	0.62
(1,455)	1:151:A:GLU:HB2	1:116:A:LYS:HD2	20	0.62
(1,439)	1:10:A:GLN:HB3	1:174:A:LEU:HD13	20	0.62
(1,405)	1:43:A:ILE:HD12	1:39:A:ARG:HG3	4	0.62
(1,405)	1:43:A:ILE:HD12	1:39:A:ARG:HG3	19	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,397)	1:109:A:ILE:HA	1:110:A:PHE:HE2	20	0.62
(1,373)	1:30:A:LYS:HB2	1:33:A:SER:HB2	6	0.62
(1,370)	1:18:A:SER:HB2	1:19:A:LEU:HG	6	0.62
(1,360)	1:52:A:ILE:HA	1:60:A:MET:HE2	12	0.62
(1,347)	1:162:A:SER:HB3	1:166:A:ILE:HD12	16	0.62
(1,346)	1:159:A:GLU:HB3	1:162:A:SER:HB2	1	0.62
(1,346)	1:159:A:GLU:HB3	1:162:A:SER:HB2	19	0.62
(1,320)	1:138:A:PHE:HA	1:139:A:LEU:HD22	3	0.62
(1,320)	1:138:A:PHE:HA	1:139:A:LEU:HD21	12	0.62
(1,320)	1:138:A:PHE:HA	1:139:A:LEU:HD22	18	0.62
(1,296)	1:19:A:LEU:HB2	1:11:A:GLU:HA	10	0.62
(1,208)	1:93:A:LEU:HD22	1:73:A:ARG:HB2	11	0.62
(1,199)	1:56:A:LYS:HD3	1:56:A:LYS:HB3	5	0.62
(1,199)	1:56:A:LYS:HD3	1:56:A:LYS:HB3	18	0.62
(1,168)	1:107:A:LYS:HG2	1:106:A:GLN:HG3	15	0.62
(1,115)	1:86:A:LEU:HD21	1:87:A:LYS:HD2	4	0.62
(1,100)	1:171:A:ILE:HD12	1:125:A:LEU:HB3	7	0.62
(1,44)	1:117:A:SER:H	1:116:A:LYS:HD3	18	0.62
(2,27)	1:171:A:ILE:H	1:167:A:ILE:O	9	0.61
(2,23)	1:163:A:TRP:H	1:159:A:GLU:O	2	0.61
(2,15)	1:109:A:ILE:H	1:102:A:GLN:O	14	0.61
(2,3)	1:78:A:PHE:H	1:153:A:HIS:O	11	0.61
(2,2)	1:72:A:VAL:H	1:93:A:LEU:O	16	0.61
(1,3507)	1:43:A:ILE:HD13	1:108:A:TYR:HE2	13	0.61
(1,3486)	1:138:A:PHE:HE2	1:128:A:ARG:HB3	7	0.61
(1,3486)	1:138:A:PHE:HE2	1:128:A:ARG:HB3	9	0.61
(1,3451)	1:66:A:LEU:HB3	1:44:A:TYR:HD2	19	0.61
(1,3352)	1:101:A:LEU:HD11	1:100:A:PHE:HA	17	0.61
(1,3341)	1:55:A:MET:HE3	1:61:A:PHE:HB2	15	0.61
(1,3325)	1:112:A:SER:HA	1:53:A:MET:HE3	2	0.61
(1,3325)	1:112:A:SER:HA	1:53:A:MET:HE3	13	0.61
(1,3310)	1:45:A:THR:HB	1:42:A:GLU:HB2	2	0.61
(1,3310)	1:45:A:THR:HB	1:42:A:GLU:HB2	13	0.61
(1,3310)	1:45:A:THR:HB	1:42:A:GLU:HB2	15	0.61
(1,3308)	1:53:A:MET:HE2	1:119:A:VAL:H	5	0.61
(1,3308)	1:53:A:MET:HE2	1:119:A:VAL:H	13	0.61
(1,3307)	1:53:A:MET:HE3	1:61:A:PHE:HE1	10	0.61
(1,3307)	1:53:A:MET:HE3	1:61:A:PHE:HE1	16	0.61
(1,3263)	1:149:A:MET:HE2	1:142:A:MET:HE2	6	0.61
(1,3191)	1:33:A:SER:HA	1:32:A:ALA:HB3	18	0.61
(1,3191)	1:33:A:SER:HA	1:32:A:ALA:HB3	20	0.61
(1,3103)	1:73:A:ARG:HD2	1:166:A:ILE:HG21	4	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3021)	1:140:A:ILE:HD13	1:138:A:PHE:HE2	19	0.61
(1,2995)	1:24:A:ILE:HG13	1:24:A:ILE:HA	7	0.61
(1,2917)	1:141:A:SER:HB3	1:140:A:ILE:HG23	1	0.61
(1,2917)	1:141:A:SER:HB3	1:140:A:ILE:HG23	14	0.61
(1,2917)	1:141:A:SER:HB3	1:140:A:ILE:HG21	15	0.61
(1,2768)	1:159:A:GLU:HG2	1:159:A:GLU:HA	12	0.61
(1,2737)	1:134:A:GLU:HA	1:157:A:LYS:HG3	13	0.61
(1,2720)	1:41:A:ASN:HA	1:44:A:TYR:HE1	5	0.61
(1,2712)	1:46:A:LYS:HA	1:107:A:LYS:HB3	4	0.61
(1,2653)	1:80:A:LYS:HA	1:80:A:LYS:HD3	12	0.61
(1,2581)	1:53:A:MET:HA	1:119:A:VAL:HG12	2	0.61
(1,2496)	1:140:A:ILE:HD12	1:128:A:ARG:HD3	7	0.61
(1,2496)	1:140:A:ILE:HD13	1:128:A:ARG:HD3	14	0.61
(1,2381)	1:35:A:GLU:HG2	1:32:A:ALA:HB1	2	0.61
(1,2381)	1:35:A:GLU:HG2	1:32:A:ALA:HB3	17	0.61
(1,2324)	1:89:A:VAL:HG12	1:87:A:LYS:HB3	2	0.61
(1,2324)	1:89:A:VAL:HG12	1:87:A:LYS:HB3	5	0.61
(1,2324)	1:89:A:VAL:HG13	1:87:A:LYS:HB3	12	0.61
(1,2282)	1:119:A:VAL:HB	1:97:A:ILE:HG22	3	0.61
(1,2282)	1:119:A:VAL:HB	1:97:A:ILE:HG23	7	0.61
(1,2282)	1:119:A:VAL:HB	1:97:A:ILE:HG23	9	0.61
(1,2282)	1:119:A:VAL:HB	1:97:A:ILE:HG21	14	0.61
(1,2282)	1:119:A:VAL:HB	1:97:A:ILE:HG22	16	0.61
(1,2206)	1:165:A:GLN:HB2	1:164:A:ILE:HG23	1	0.61
(1,2206)	1:165:A:GLN:HB2	1:164:A:ILE:HG21	13	0.61
(1,2206)	1:165:A:GLN:HB2	1:164:A:ILE:HG22	15	0.61
(1,2077)	1:182:A:ILE:HG13	1:182:A:ILE:HG23	14	0.61
(1,2032)	1:123:A:LYS:HG3	1:123:A:LYS:HE2	11	0.61
(1,2032)	1:123:A:LYS:HG3	1:123:A:LYS:HE2	14	0.61
(1,2030)	1:124:A:LYS:HG3	1:123:A:LYS:HB3	19	0.61
(1,2019)	1:170:A:THR:HG23	1:93:A:LEU:HD11	15	0.61
(1,1995)	1:174:A:LEU:HD11	1:12:A:ASP:HB2	5	0.61
(1,1939)	1:50:A:LYS:HG3	1:60:A:MET:HE1	13	0.61
(1,1864)	1:95:A:THR:HG23	1:72:A:VAL:HB	4	0.61
(1,1843)	1:40:A:LEU:HD21	1:44:A:TYR:HA	6	0.61
(1,1832)	1:118:A:THR:HG22	1:113:A:LEU:HB3	2	0.61
(1,1828)	1:3:A:THR:HG22	1:3:A:THR:HA	18	0.61
(1,1819)	1:79:A:LEU:HD22	1:150:A:VAL:HG11	4	0.61
(1,1819)	1:79:A:LEU:HD22	1:150:A:VAL:HG11	16	0.61
(1,1720)	1:154:A:ALA:HB1	1:77:A:VAL:HG12	13	0.61
(1,1666)	1:97:A:ILE:HG22	1:119:A:VAL:HG22	15	0.61
(1,1631)	1:126:A:ILE:HG23	1:126:A:ILE:HG13	4	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1631)	1:126:A:ILE:HG23	1:126:A:ILE:HG13	7	0.61
(1,1631)	1:126:A:ILE:HG22	1:126:A:ILE:HG13	8	0.61
(1,1631)	1:126:A:ILE:HG23	1:126:A:ILE:HG13	9	0.61
(1,1566)	1:97:A:ILE:HD13	1:121:A:SER:HA	1	0.61
(1,1546)	1:120:A:ILE:HD11	1:98:A:LEU:HB2	19	0.61
(1,1530)	1:167:A:ILE:HD13	1:168:A:GLN:HB3	10	0.61
(1,1530)	1:167:A:ILE:HD12	1:168:A:GLN:HB3	12	0.61
(1,1530)	1:167:A:ILE:HD12	1:168:A:GLN:HB3	16	0.61
(1,1530)	1:167:A:ILE:HD13	1:168:A:GLN:HB3	18	0.61
(1,1470)	1:37:A:LYS:H	1:38:A:VAL:HG11	1	0.61
(1,1470)	1:37:A:LYS:H	1:38:A:VAL:HG11	7	0.61
(1,1470)	1:37:A:LYS:H	1:38:A:VAL:HG11	19	0.61
(1,1453)	1:35:A:GLU:H	1:34:A:TYR:HB2	8	0.61
(1,1434)	1:58:A:GLY:H	1:55:A:MET:HG2	2	0.61
(1,1426)	1:181:A:GLY:H	1:180:A:GLU:HB3	19	0.61
(1,1342)	1:100:A:PHE:H	1:98:A:LEU:HD23	17	0.61
(1,1245)	1:106:A:GLN:H	1:103:A:GLU:HG3	2	0.61
(1,1151)	1:175:A:ASN:H	1:174:A:LEU:HD23	15	0.61
(1,962)	1:77:A:VAL:H	1:76:A:SER:HB3	17	0.61
(1,920)	1:31:A:VAL:H	1:32:A:ALA:HB2	17	0.61
(1,896)	1:176:A:ARG:H	1:176:A:ARG:HG2	10	0.61
(1,701)	1:137:A:LEU:H	1:130:A:VAL:HG21	1	0.61
(1,584)	1:185:A:GLU:H	1:184:A:SER:HA	8	0.61
(1,492)	1:95:A:THR:HG23	1:69:A:LYS:HB3	3	0.61
(1,492)	1:95:A:THR:HG21	1:10:A:GLN:HB2	16	0.61
(1,487)	1:40:A:LEU:HG	1:39:A:ARG:HG3	7	0.61
(1,472)	1:135:A:LYS:HE3	1:135:A:LYS:HB3	18	0.61
(1,446)	1:22:A:ASP:HA	1:21:A:LYS:HG3	8	0.61
(1,432)	1:67:A:LYS:HE3	1:44:A:TYR:HD1	19	0.61
(1,405)	1:43:A:ILE:HD12	1:39:A:ARG:HG3	13	0.61
(1,397)	1:109:A:ILE:HA	1:110:A:PHE:HE2	6	0.61
(1,397)	1:109:A:ILE:HA	1:110:A:PHE:HE2	10	0.61
(1,397)	1:109:A:ILE:HA	1:110:A:PHE:HE2	19	0.61
(1,375)	1:49:A:SER:HB2	1:63:A:LYS:HE3	9	0.61
(1,360)	1:52:A:ILE:HA	1:60:A:MET:HE1	14	0.61
(1,360)	1:52:A:ILE:HA	1:60:A:MET:HE2	17	0.61
(1,348)	1:162:A:SER:HB2	1:161:A:ASN:HB3	6	0.61
(1,347)	1:162:A:SER:HB3	1:166:A:ILE:HD11	19	0.61
(1,346)	1:159:A:GLU:HB3	1:162:A:SER:HB2	7	0.61
(1,331)	1:15:A:GLN:HA	1:15:A:GLN:HG2	17	0.61
(1,317)	1:14:A:ALA:HA	1:8:A:VAL:HG12	8	0.61
(1,317)	1:14:A:ALA:HA	1:8:A:VAL:HG13	10	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,297)	1:19:A:LEU:HB3	1:18:A:SER:HB2	8	0.61
(1,297)	1:19:A:LEU:HB3	1:18:A:SER:HB2	10	0.61
(1,199)	1:56:A:LYS:HD3	1:56:A:LYS:HB3	19	0.61
(1,168)	1:107:A:LYS:HG2	1:106:A:GLN:HG3	12	0.61
(1,160)	1:71:A:LEU:HD13	1:74:A:ASP:HA	18	0.61
(1,137)	1:67:A:LYS:HG2	1:68:A:ARG:HB2	6	0.61
(1,124)	1:45:A:THR:HG23	1:46:A:LYS:HB3	12	0.61
(1,100)	1:171:A:ILE:HD11	1:125:A:LEU:HB3	6	0.61
(1,65)	1:15:A:GLN:H	1:15:A:GLN:HG2	20	0.61
(1,44)	1:117:A:SER:H	1:116:A:LYS:HD3	2	0.61
(1,44)	1:117:A:SER:H	1:116:A:LYS:HD3	15	0.61
(1,42)	1:76:A:SER:H	1:77:A:VAL:HG13	5	0.61
(1,38)	1:138:A:PHE:H	1:164:A:ILE:HD11	17	0.61
(1,12)	1:140:A:ILE:H	1:127:A:VAL:HB	10	0.61
(1,12)	1:140:A:ILE:H	1:127:A:VAL:HB	18	0.61
(1,5)	1:120:A:ILE:H	1:97:A:ILE:HG22	8	0.61
(1,5)	1:120:A:ILE:H	1:97:A:ILE:HD13	11	0.61
(1,5)	1:120:A:ILE:H	1:97:A:ILE:HG23	18	0.61
(1,5)	1:120:A:ILE:H	1:97:A:ILE:HD11	20	0.61
(2,27)	1:171:A:ILE:H	1:167:A:ILE:O	3	0.6
(2,26)	1:169:A:ASP:H	1:166:A:ILE:O	20	0.6
(2,2)	1:72:A:VAL:H	1:93:A:LEU:O	4	0.6
(2,2)	1:72:A:VAL:H	1:93:A:LEU:O	6	0.6
(2,2)	1:72:A:VAL:H	1:93:A:LEU:O	11	0.6
(1,3507)	1:43:A:ILE:HD13	1:108:A:TYR:HE2	1	0.6
(1,3451)	1:66:A:LEU:HB3	1:44:A:TYR:HD1	12	0.6
(1,3448)	1:34:A:TYR:HD2	1:38:A:VAL:HG21	19	0.6
(1,3448)	1:34:A:TYR:HD1	1:38:A:VAL:HG21	20	0.6
(1,3401)	1:126:A:ILE:HG22	1:143:A:GLY:H	20	0.6
(1,3394)	1:134:A:GLU:HG2	1:157:A:LYS:HG3	8	0.6
(1,3352)	1:101:A:LEU:HD12	1:100:A:PHE:HA	1	0.6
(1,3352)	1:101:A:LEU:HD13	1:100:A:PHE:HA	16	0.6
(1,3352)	1:101:A:LEU:HD13	1:100:A:PHE:HA	18	0.6
(1,3352)	1:101:A:LEU:HD12	1:100:A:PHE:HA	20	0.6
(1,3344)	1:149:A:MET:HE1	1:140:A:ILE:HG13	10	0.6
(1,3312)	1:109:A:ILE:HA	1:109:A:ILE:HD11	6	0.6
(1,3312)	1:109:A:ILE:HA	1:109:A:ILE:HD12	14	0.6
(1,3312)	1:109:A:ILE:HA	1:109:A:ILE:HD12	18	0.6
(1,3307)	1:53:A:MET:HE3	1:61:A:PHE:HE1	6	0.6
(1,3307)	1:53:A:MET:HE2	1:61:A:PHE:HE1	20	0.6
(1,3294)	1:65:A:ASP:HA	1:61:A:PHE:HE2	14	0.6
(1,3271)	1:169:A:ASP:H	1:171:A:ILE:HD12	10	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3263)	1:149:A:MET:HE2	1:142:A:MET:HE1	2	0.6
(1,3263)	1:149:A:MET:HE1	1:142:A:MET:HE1	5	0.6
(1,3231)	1:86:A:LEU:HD21	1:153:A:HIS:HA	10	0.6
(1,3229)	1:86:A:LEU:HD23	1:153:A:HIS:HE1	17	0.6
(1,3224)	1:79:A:LEU:H	1:79:A:LEU:HD21	16	0.6
(1,3191)	1:33:A:SER:HA	1:32:A:ALA:HB2	8	0.6
(1,3191)	1:33:A:SER:HA	1:32:A:ALA:HB2	14	0.6
(1,3116)	1:87:A:LYS:HE3	1:113:A:LEU:HD21	15	0.6
(1,3019)	1:115:A:GLN:HG2	1:114:A:ASP:HB2	16	0.6
(1,2951)	1:144:A:MET:HE1	1:144:A:MET:HA	10	0.6
(1,2945)	1:53:A:MET:HE1	1:52:A:ILE:HG22	3	0.6
(1,2945)	1:53:A:MET:HE3	1:52:A:ILE:HG22	16	0.6
(1,2917)	1:141:A:SER:HB3	1:140:A:ILE:HG21	3	0.6
(1,2917)	1:141:A:SER:HB3	1:140:A:ILE:HG23	6	0.6
(1,2898)	1:149:A:MET:HB3	1:138:A:PHE:HD1	19	0.6
(1,2858)	1:176:A:ARG:HD3	1:173:A:THR:HA	1	0.6
(1,2826)	1:147:A:PRO:HA	1:140:A:ILE:HG22	8	0.6
(1,2826)	1:147:A:PRO:HA	1:140:A:ILE:HG21	10	0.6
(1,2773)	1:77:A:VAL:HA	1:152:A:VAL:HG13	4	0.6
(1,2768)	1:159:A:GLU:HG2	1:159:A:GLU:HA	4	0.6
(1,2768)	1:159:A:GLU:HG2	1:159:A:GLU:HA	9	0.6
(1,2728)	1:127:A:VAL:HA	1:137:A:LEU:HD23	5	0.6
(1,2720)	1:41:A:ASN:HA	1:44:A:TYR:HE1	4	0.6
(1,2720)	1:41:A:ASN:HA	1:44:A:TYR:HE1	16	0.6
(1,2712)	1:46:A:LYS:HA	1:107:A:LYS:HB3	19	0.6
(1,2653)	1:80:A:LYS:HA	1:80:A:LYS:HD3	10	0.6
(1,2645)	1:142:A:MET:HA	1:147:A:PRO:HG2	1	0.6
(1,2641)	1:85:A:ARG:HA	1:86:A:LEU:HD11	1	0.6
(1,2641)	1:85:A:ARG:HA	1:86:A:LEU:HD13	18	0.6
(1,2541)	1:136:A:GLY:HA2	1:130:A:VAL:HB	3	0.6
(1,2541)	1:136:A:GLY:HA2	1:130:A:VAL:HB	8	0.6
(1,2541)	1:136:A:GLY:HA2	1:130:A:VAL:HB	15	0.6
(1,2496)	1:140:A:ILE:HD13	1:128:A:ARG:HD3	11	0.6
(1,2496)	1:140:A:ILE:HD13	1:128:A:ARG:HD3	17	0.6
(1,2465)	1:50:A:LYS:HG2	1:50:A:LYS:HE3	12	0.6
(1,2419)	1:106:A:GLN:HG3	1:105:A:ASP:HB3	9	0.6
(1,2419)	1:106:A:GLN:HG3	1:105:A:ASP:HB3	15	0.6
(1,2381)	1:35:A:GLU:HG2	1:32:A:ALA:HB1	13	0.6
(1,2206)	1:165:A:GLN:HB2	1:164:A:ILE:HG21	3	0.6
(1,2206)	1:165:A:GLN:HB2	1:164:A:ILE:HG23	4	0.6
(1,2179)	1:80:A:LYS:HD3	1:80:A:LYS:HB2	19	0.6
(1,2167)	1:67:A:LYS:HD3	1:67:A:LYS:H	8	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2160)	1:107:A:LYS:HD3	1:109:A:ILE:HG23	19	0.6
(1,2144)	1:36:A:LYS:HD2	1:36:A:LYS:HB3	3	0.6
(1,2077)	1:182:A:ILE:HG13	1:182:A:ILE:HG22	17	0.6
(1,2032)	1:123:A:LYS:HG3	1:123:A:LYS:HE2	4	0.6
(1,2032)	1:123:A:LYS:HG3	1:123:A:LYS:HE2	16	0.6
(1,2019)	1:170:A:THR:HG22	1:93:A:LEU:HD11	12	0.6
(1,2019)	1:170:A:THR:HG22	1:93:A:LEU:HD13	19	0.6
(1,1932)	1:94:A:LEU:HD21	1:94:A:LEU:HA	13	0.6
(1,1843)	1:40:A:LEU:HD23	1:44:A:TYR:HA	9	0.6
(1,1835)	1:173:A:THR:HG22	1:176:A:ARG:HD3	11	0.6
(1,1819)	1:79:A:LEU:HD22	1:150:A:VAL:HG12	17	0.6
(1,1762)	1:99:A:VAL:HG13	1:66:A:LEU:HD12	1	0.6
(1,1739)	1:119:A:VAL:HG13	1:53:A:MET:HB2	16	0.6
(1,1716)	1:119:A:VAL:HG23	1:55:A:MET:HG3	17	0.6
(1,1698)	1:91:A:ALA:HB1	1:98:A:LEU:HD23	1	0.6
(1,1677)	1:109:A:ILE:HG21	1:48:A:ASP:HA	13	0.6
(1,1666)	1:97:A:ILE:HG23	1:119:A:VAL:HG22	9	0.6
(1,1631)	1:126:A:ILE:HG21	1:126:A:ILE:HG13	13	0.6
(1,1602)	1:149:A:MET:HE1	1:138:A:PHE:HD1	8	0.6
(1,1575)	1:164:A:ILE:HD13	1:161:A:ASN:HB3	3	0.6
(1,1566)	1:97:A:ILE:HD12	1:121:A:SER:HA	4	0.6
(1,1566)	1:97:A:ILE:HD13	1:121:A:SER:HA	6	0.6
(1,1564)	1:97:A:ILE:HD11	1:97:A:ILE:H	17	0.6
(1,1563)	1:97:A:ILE:HD12	1:61:A:PHE:HD1	8	0.6
(1,1497)	1:54:A:ARG:H	1:54:A:ARG:HB2	2	0.6
(1,1497)	1:54:A:ARG:H	1:54:A:ARG:HB2	5	0.6
(1,1470)	1:37:A:LYS:H	1:38:A:VAL:HG13	5	0.6
(1,1453)	1:35:A:GLU:H	1:34:A:TYR:HB2	7	0.6
(1,1342)	1:100:A:PHE:H	1:98:A:LEU:HD21	9	0.6
(1,1318)	1:4:A:LYS:H	1:6:A:ASN:HD22	9	0.6
(1,1208)	1:25:A:GLY:H	1:24:A:ILE:HD12	15	0.6
(1,1163)	1:112:A:SER:H	1:111:A:ALA:HB2	4	0.6
(1,920)	1:31:A:VAL:H	1:32:A:ALA:HB2	1	0.6
(1,905)	1:97:A:ILE:H	1:94:A:LEU:HD22	19	0.6
(1,712)	1:74:A:ASP:H	1:71:A:LEU:HD11	20	0.6
(1,627)	1:98:A:LEU:H	1:97:A:ILE:HG12	13	0.6
(1,586)	1:185:A:GLU:H	1:184:A:SER:HB2	5	0.6
(1,497)	1:139:A:LEU:HA	1:128:A:ARG:HB2	5	0.6
(1,461)	1:98:A:LEU:HD23	1:93:A:LEU:HB2	4	0.6
(1,405)	1:43:A:ILE:HD11	1:39:A:ARG:HG3	9	0.6
(1,397)	1:109:A:ILE:HA	1:110:A:PHE:HE2	2	0.6
(1,387)	1:70:A:LYS:HB3	1:70:A:LYS:HD2	6	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,370)	1:18:A:SER:HB2	1:19:A:LEU:HG	11	0.6
(1,363)	1:37:A:LYS:HA	1:37:A:LYS:HE2	15	0.6
(1,360)	1:52:A:ILE:HA	1:60:A:MET:HE2	3	0.6
(1,360)	1:52:A:ILE:HA	1:60:A:MET:HE3	10	0.6
(1,360)	1:52:A:ILE:HA	1:60:A:MET:HE1	15	0.6
(1,360)	1:52:A:ILE:HA	1:60:A:MET:HE1	18	0.6
(1,345)	1:159:A:GLU:HG2	1:162:A:SER:HB2	18	0.6
(1,315)	1:82:A:ALA:HA	1:116:A:LYS:HG3	13	0.6
(1,299)	1:85:A:ARG:HD2	1:84:A:GLY:HA2	10	0.6
(1,297)	1:19:A:LEU:HB3	1:18:A:SER:HB2	2	0.6
(1,230)	1:67:A:LYS:HB3	1:67:A:LYS:HE2	6	0.6
(1,230)	1:67:A:LYS:HB3	1:67:A:LYS:HE2	18	0.6
(1,226)	1:85:A:ARG:HB2	1:85:A:ARG:HD2	19	0.6
(1,211)	1:109:A:ILE:HD13	1:104:A:LYS:HD3	19	0.6
(1,161)	1:71:A:LEU:HD11	1:93:A:LEU:H	8	0.6
(1,124)	1:45:A:THR:HG23	1:46:A:LYS:HB3	6	0.6
(1,124)	1:45:A:THR:HG23	1:46:A:LYS:HB3	9	0.6
(1,124)	1:45:A:THR:HG22	1:46:A:LYS:HB3	17	0.6
(1,101)	1:164:A:ILE:HD13	1:129:A:GLU:HB3	13	0.6
(1,100)	1:171:A:ILE:HD12	1:125:A:LEU:HB3	3	0.6
(1,100)	1:171:A:ILE:HD12	1:125:A:LEU:HB3	18	0.6
(1,100)	1:171:A:ILE:HD12	1:125:A:LEU:HB3	20	0.6
(1,47)	1:175:A:ASN:H	1:173:A:THR:HG22	19	0.6
(1,5)	1:120:A:ILE:H	1:97:A:ILE:HG21	3	0.6
(2,25)	1:168:A:GLN:H	1:164:A:ILE:O	9	0.59
(2,18)	1:152:A:VAL:H	1:137:A:LEU:O	19	0.59
(2,15)	1:109:A:ILE:H	1:102:A:GLN:O	10	0.59
(2,2)	1:72:A:VAL:H	1:93:A:LEU:O	14	0.59
(1,3507)	1:43:A:ILE:HD12	1:108:A:TYR:HE2	3	0.59
(1,3507)	1:43:A:ILE:HD12	1:108:A:TYR:HE2	15	0.59
(1,3507)	1:43:A:ILE:HD13	1:108:A:TYR:HE2	20	0.59
(1,3486)	1:138:A:PHE:HE2	1:128:A:ARG:HB3	13	0.59
(1,3451)	1:66:A:LEU:HB3	1:44:A:TYR:HD2	11	0.59
(1,3429)	1:110:A:PHE:HZ	1:110:A:PHE:HD1	1	0.59
(1,3429)	1:110:A:PHE:HZ	1:110:A:PHE:HD1	2	0.59
(1,3429)	1:110:A:PHE:HZ	1:110:A:PHE:HD1	4	0.59
(1,3429)	1:110:A:PHE:HZ	1:110:A:PHE:HD1	6	0.59
(1,3429)	1:110:A:PHE:HZ	1:110:A:PHE:HD1	9	0.59
(1,3429)	1:110:A:PHE:HZ	1:110:A:PHE:HD1	10	0.59
(1,3429)	1:110:A:PHE:HZ	1:110:A:PHE:HD1	12	0.59
(1,3429)	1:110:A:PHE:HZ	1:110:A:PHE:HD1	13	0.59
(1,3429)	1:110:A:PHE:HZ	1:110:A:PHE:HD1	14	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3429)	1:110:A:PHE:HZ	1:110:A:PHE:HD1	15	0.59
(1,3429)	1:110:A:PHE:HZ	1:110:A:PHE:HD1	16	0.59
(1,3429)	1:110:A:PHE:HZ	1:110:A:PHE:HD1	17	0.59
(1,3429)	1:110:A:PHE:HZ	1:110:A:PHE:HD1	19	0.59
(1,3429)	1:110:A:PHE:HZ	1:110:A:PHE:HD1	20	0.59
(1,3397)	1:45:A:THR:HG23	1:42:A:GLU:HG3	11	0.59
(1,3352)	1:101:A:LEU:HD11	1:100:A:PHE:HA	3	0.59
(1,3352)	1:101:A:LEU:HD11	1:100:A:PHE:HA	7	0.59
(1,3341)	1:55:A:MET:HE2	1:61:A:PHE:HB2	9	0.59
(1,3325)	1:112:A:SER:HA	1:53:A:MET:HE3	3	0.59
(1,3325)	1:112:A:SER:HA	1:53:A:MET:HE1	14	0.59
(1,3312)	1:109:A:ILE:HA	1:109:A:ILE:HD12	4	0.59
(1,3312)	1:109:A:ILE:HA	1:109:A:ILE:HD11	7	0.59
(1,3312)	1:109:A:ILE:HA	1:109:A:ILE:HD11	8	0.59
(1,3312)	1:109:A:ILE:HA	1:109:A:ILE:HD13	12	0.59
(1,3312)	1:109:A:ILE:HA	1:109:A:ILE:HD13	17	0.59
(1,3310)	1:45:A:THR:HB	1:42:A:GLU:HB2	1	0.59
(1,3308)	1:53:A:MET:HE2	1:119:A:VAL:H	2	0.59
(1,3307)	1:53:A:MET:HE2	1:61:A:PHE:HE1	14	0.59
(1,3304)	1:119:A:VAL:HG23	1:110:A:PHE:HZ	8	0.59
(1,3271)	1:169:A:ASP:H	1:171:A:ILE:HD13	1	0.59
(1,3156)	1:142:A:MET:HE3	1:142:A:MET:HA	17	0.59
(1,3100)	1:128:A:ARG:HB3	1:128:A:ARG:HD2	12	0.59
(1,3052)	1:55:A:MET:HE1	1:61:A:PHE:HZ	8	0.59
(1,3051)	1:55:A:MET:HE1	1:59:A:GLN:HE22	2	0.59
(1,3051)	1:55:A:MET:HE2	1:59:A:GLN:HE22	15	0.59
(1,2995)	1:24:A:ILE:HG13	1:24:A:ILE:HA	9	0.59
(1,2945)	1:53:A:MET:HE1	1:52:A:ILE:HG21	17	0.59
(1,2942)	1:110:A:PHE:HB2	1:53:A:MET:HE1	4	0.59
(1,2917)	1:141:A:SER:HB3	1:140:A:ILE:HG23	5	0.59
(1,2898)	1:149:A:MET:HB3	1:138:A:PHE:HD1	18	0.59
(1,2845)	1:72:A:VAL:HG23	1:72:A:VAL:HA	5	0.59
(1,2845)	1:72:A:VAL:HG23	1:72:A:VAL:HA	16	0.59
(1,2845)	1:72:A:VAL:HG22	1:72:A:VAL:HA	18	0.59
(1,2826)	1:147:A:PRO:HA	1:140:A:ILE:HG22	7	0.59
(1,2826)	1:147:A:PRO:HA	1:140:A:ILE:HG21	13	0.59
(1,2826)	1:147:A:PRO:HA	1:140:A:ILE:HG21	16	0.59
(1,2728)	1:127:A:VAL:HA	1:137:A:LEU:HD21	4	0.59
(1,2728)	1:127:A:VAL:HA	1:137:A:LEU:HD22	15	0.59
(1,2728)	1:127:A:VAL:HA	1:137:A:LEU:HD22	18	0.59
(1,2653)	1:80:A:LYS:HA	1:80:A:LYS:HD3	9	0.59
(1,2641)	1:85:A:ARG:HA	1:86:A:LEU:HD12	3	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2541)	1:136:A:GLY:HA2	1:130:A:VAL:HB	2	0.59
(1,2541)	1:136:A:GLY:HA2	1:130:A:VAL:HB	12	0.59
(1,2471)	1:157:A:LYS:HE3	1:157:A:LYS:HD3	3	0.59
(1,2471)	1:157:A:LYS:HE3	1:157:A:LYS:HD3	7	0.59
(1,2471)	1:157:A:LYS:HE3	1:157:A:LYS:HD3	9	0.59
(1,2471)	1:157:A:LYS:HE3	1:157:A:LYS:HD3	12	0.59
(1,2471)	1:157:A:LYS:HE3	1:157:A:LYS:HD3	14	0.59
(1,2471)	1:157:A:LYS:HE3	1:157:A:LYS:HD3	15	0.59
(1,2471)	1:157:A:LYS:HE3	1:157:A:LYS:HD3	18	0.59
(1,2471)	1:157:A:LYS:HE3	1:157:A:LYS:HD3	19	0.59
(1,2465)	1:50:A:LYS:HG2	1:50:A:LYS:HE3	3	0.59
(1,2385)	1:159:A:GLU:HG3	1:154:A:ALA:HB2	20	0.59
(1,2352)	1:130:A:VAL:HG13	1:133:A:GLU:HG2	17	0.59
(1,2206)	1:165:A:GLN:HB2	1:164:A:ILE:HG22	20	0.59
(1,2167)	1:67:A:LYS:HD3	1:67:A:LYS:H	7	0.59
(1,2167)	1:67:A:LYS:HD3	1:67:A:LYS:H	11	0.59
(1,2124)	1:137:A:LEU:HD11	1:137:A:LEU:HB3	10	0.59
(1,2116)	1:176:A:ARG:HG3	1:11:A:GLU:HB3	1	0.59
(1,2077)	1:182:A:ILE:HG13	1:182:A:ILE:HG23	1	0.59
(1,2072)	1:98:A:LEU:HD11	1:93:A:LEU:HD22	7	0.59
(1,2032)	1:123:A:LYS:HG3	1:123:A:LYS:HE2	5	0.59
(1,2028)	1:124:A:LYS:HG2	1:123:A:LYS:HD3	4	0.59
(1,2022)	1:93:A:LEU:HD12	1:72:A:VAL:H	16	0.59
(1,2019)	1:170:A:THR:HG22	1:93:A:LEU:HD11	3	0.59
(1,1988)	1:174:A:LEU:HD12	1:95:A:THR:HG21	1	0.59
(1,1981)	1:71:A:LEU:HD23	1:40:A:LEU:HB3	9	0.59
(1,1946)	1:50:A:LYS:HG2	1:60:A:MET:HE3	8	0.59
(1,1864)	1:95:A:THR:HG23	1:72:A:VAL:HB	8	0.59
(1,1864)	1:95:A:THR:HG22	1:72:A:VAL:HB	14	0.59
(1,1843)	1:40:A:LEU:HD22	1:44:A:TYR:HA	14	0.59
(1,1819)	1:79:A:LEU:HD22	1:150:A:VAL:HG11	2	0.59
(1,1819)	1:79:A:LEU:HD23	1:150:A:VAL:HG12	14	0.59
(1,1819)	1:79:A:LEU:HD23	1:150:A:VAL:HG13	20	0.59
(1,1799)	1:127:A:VAL:HG12	1:137:A:LEU:HD22	18	0.59
(1,1739)	1:119:A:VAL:HG11	1:53:A:MET:HB2	11	0.59
(1,1739)	1:119:A:VAL:HG12	1:53:A:MET:HB2	12	0.59
(1,1739)	1:119:A:VAL:HG11	1:53:A:MET:HB2	15	0.59
(1,1728)	1:31:A:VAL:HG13	1:35:A:GLU:HG3	20	0.59
(1,1716)	1:119:A:VAL:HG23	1:55:A:MET:HG3	13	0.59
(1,1698)	1:91:A:ALA:HB1	1:98:A:LEU:HD23	13	0.59
(1,1640)	1:82:A:ALA:HB1	1:81:A:ASN:HB3	12	0.59
(1,1631)	1:126:A:ILE:HG22	1:126:A:ILE:HG13	18	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1566)	1:97:A:ILE:HD12	1:121:A:SER:HA	19	0.59
(1,1564)	1:97:A:ILE:HD11	1:97:A:ILE:H	10	0.59
(1,1560)	1:97:A:ILE:HD12	1:69:A:LYS:HE3	4	0.59
(1,1546)	1:120:A:ILE:HD11	1:98:A:LEU:HB2	10	0.59
(1,1497)	1:54:A:ARG:H	1:54:A:ARG:HB2	4	0.59
(1,1464)	1:180:A:GLU:H	1:180:A:GLU:HG2	11	0.59
(1,1453)	1:35:A:GLU:H	1:34:A:TYR:HB2	12	0.59
(1,1453)	1:35:A:GLU:H	1:34:A:TYR:HB2	18	0.59
(1,1426)	1:181:A:GLY:H	1:180:A:GLU:HB3	3	0.59
(1,1342)	1:100:A:PHE:H	1:98:A:LEU:HD23	16	0.59
(1,1208)	1:25:A:GLY:H	1:24:A:ILE:HD12	20	0.59
(1,1184)	1:109:A:ILE:H	1:109:A:ILE:HD13	1	0.59
(1,1184)	1:109:A:ILE:H	1:109:A:ILE:HD13	5	0.59
(1,1163)	1:112:A:SER:H	1:111:A:ALA:HB1	7	0.59
(1,1149)	1:175:A:ASN:H	1:175:A:ASN:HB3	1	0.59
(1,1149)	1:175:A:ASN:H	1:175:A:ASN:HB3	13	0.59
(1,898)	1:176:A:ARG:H	1:176:A:ARG:HD3	11	0.59
(1,896)	1:176:A:ARG:H	1:176:A:ARG:HG2	4	0.59
(1,735)	1:99:A:VAL:H	1:99:A:VAL:HG21	7	0.59
(1,667)	1:24:A:ILE:H	1:27:A:VAL:HG22	9	0.59
(1,627)	1:98:A:LEU:H	1:97:A:ILE:HG12	6	0.59
(1,568)	1:88:A:GLU:H	1:78:A:PHE:HD1	15	0.59
(1,485)	1:64:A:GLU:HG3	1:67:A:LYS:HD3	7	0.59
(1,472)	1:135:A:LYS:HE2	1:135:A:LYS:HB3	15	0.59
(1,455)	1:151:A:GLU:HB2	1:116:A:LYS:HD3	2	0.59
(1,434)	1:22:A:ASP:HB3	1:21:A:LYS:HA	19	0.59
(1,397)	1:109:A:ILE:HA	1:110:A:PHE:HE2	11	0.59
(1,397)	1:109:A:ILE:HA	1:110:A:PHE:HE2	14	0.59
(1,373)	1:30:A:LYS:HB2	1:33:A:SER:HB2	12	0.59
(1,369)	1:19:A:LEU:HB2	1:18:A:SER:HB2	8	0.59
(1,360)	1:52:A:ILE:HA	1:60:A:MET:HE1	1	0.59
(1,360)	1:52:A:ILE:HA	1:60:A:MET:HE2	2	0.59
(1,346)	1:159:A:GLU:HB3	1:162:A:SER:HB2	5	0.59
(1,337)	1:184:A:SER:HA	1:185:A:GLU:HB3	12	0.59
(1,320)	1:138:A:PHE:HA	1:139:A:LEU:HD23	20	0.59
(1,315)	1:82:A:ALA:HA	1:116:A:LYS:HG3	20	0.59
(1,297)	1:19:A:LEU:HB3	1:18:A:SER:HB2	16	0.59
(1,296)	1:19:A:LEU:HB2	1:15:A:GLN:HA	6	0.59
(1,226)	1:85:A:ARG:HB2	1:85:A:ARG:HD2	4	0.59
(1,226)	1:85:A:ARG:HB2	1:85:A:ARG:HD2	8	0.59
(1,226)	1:85:A:ARG:HB2	1:85:A:ARG:HD2	9	0.59
(1,226)	1:85:A:ARG:HB2	1:85:A:ARG:HD2	12	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,219)	1:42:A:GLU:HB3	1:39:A:ARG:HB2	12	0.59
(1,208)	1:93:A:LEU:HD21	1:73:A:ARG:HB2	3	0.59
(1,170)	1:107:A:LYS:HG3	1:46:A:LYS:HA	1	0.59
(1,161)	1:71:A:LEU:HD13	1:93:A:LEU:H	15	0.59
(1,154)	1:71:A:LEU:HD11	1:74:A:ASP:HB2	1	0.59
(1,154)	1:71:A:LEU:HD11	1:74:A:ASP:HB2	10	0.59
(1,124)	1:45:A:THR:HG21	1:46:A:LYS:HB3	3	0.59
(1,89)	1:127:A:VAL:H	1:127:A:VAL:HG11	8	0.59
(1,58)	1:13:A:LEU:H	1:19:A:LEU:HD12	11	0.59
(1,42)	1:76:A:SER:H	1:77:A:VAL:HG12	7	0.59
(1,42)	1:76:A:SER:H	1:77:A:VAL:HG11	18	0.59
(1,38)	1:138:A:PHE:H	1:164:A:ILE:HD12	18	0.59
(2,21)	1:161:A:ASN:H	1:158:A:GLU:O	16	0.58
(2,2)	1:72:A:VAL:H	1:93:A:LEU:O	2	0.58
(2,2)	1:72:A:VAL:H	1:93:A:LEU:O	13	0.58
(1,3451)	1:66:A:LEU:HB3	1:44:A:TYR:HD2	3	0.58
(1,3448)	1:34:A:TYR:HD1	1:38:A:VAL:HG21	17	0.58
(1,3429)	1:110:A:PHE:HZ	1:110:A:PHE:HD1	3	0.58
(1,3429)	1:110:A:PHE:HZ	1:110:A:PHE:HD1	5	0.58
(1,3429)	1:110:A:PHE:HZ	1:110:A:PHE:HD1	7	0.58
(1,3429)	1:110:A:PHE:HZ	1:110:A:PHE:HD1	8	0.58
(1,3429)	1:110:A:PHE:HZ	1:110:A:PHE:HD1	11	0.58
(1,3429)	1:110:A:PHE:HZ	1:110:A:PHE:HD1	18	0.58
(1,3394)	1:134:A:GLU:HG2	1:157:A:LYS:HG3	10	0.58
(1,3312)	1:109:A:ILE:HA	1:109:A:ILE:HD12	2	0.58
(1,3312)	1:109:A:ILE:HA	1:109:A:ILE:HD13	3	0.58
(1,3312)	1:109:A:ILE:HA	1:109:A:ILE:HD13	9	0.58
(1,3312)	1:109:A:ILE:HA	1:109:A:ILE:HD13	13	0.58
(1,3312)	1:109:A:ILE:HA	1:109:A:ILE:HD11	16	0.58
(1,3310)	1:45:A:THR:HB	1:42:A:GLU:HB2	20	0.58
(1,3307)	1:53:A:MET:HE2	1:61:A:PHE:HE1	15	0.58
(1,3307)	1:53:A:MET:HE1	1:61:A:PHE:HE1	18	0.58
(1,3271)	1:169:A:ASP:H	1:171:A:ILE:HD13	3	0.58
(1,3263)	1:149:A:MET:HE1	1:142:A:MET:HE1	15	0.58
(1,3260)	1:171:A:ILE:HA	1:125:A:LEU:HD11	17	0.58
(1,3197)	1:111:A:ALA:HB2	1:118:A:THR:HA	5	0.58
(1,3191)	1:33:A:SER:HA	1:32:A:ALA:HB1	4	0.58
(1,3191)	1:33:A:SER:HA	1:32:A:ALA:HB2	17	0.58
(1,3156)	1:142:A:MET:HE1	1:142:A:MET:HA	2	0.58
(1,3132)	1:4:A:LYS:HB3	1:4:A:LYS:HD3	6	0.58
(1,3103)	1:73:A:ARG:HD2	1:166:A:ILE:HG22	20	0.58
(1,3013)	1:156:A:SER:HA	1:135:A:LYS:HD3	11	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2970)	1:176:A:ARG:HD3	1:176:A:ARG:HA	10	0.58
(1,2959)	1:110:A:PHE:HB2	1:119:A:VAL:HG13	14	0.58
(1,2945)	1:53:A:MET:HE1	1:52:A:ILE:HG21	1	0.58
(1,2945)	1:53:A:MET:HE1	1:52:A:ILE:HG21	4	0.58
(1,2924)	1:166:A:ILE:HD13	1:163:A:TRP:HA	9	0.58
(1,2917)	1:141:A:SER:HB3	1:140:A:ILE:HG22	19	0.58
(1,2845)	1:72:A:VAL:HG22	1:72:A:VAL:HA	2	0.58
(1,2845)	1:72:A:VAL:HG22	1:72:A:VAL:HA	15	0.58
(1,2826)	1:147:A:PRO:HA	1:140:A:ILE:HG22	19	0.58
(1,2826)	1:147:A:PRO:HA	1:140:A:ILE:HG22	20	0.58
(1,2773)	1:77:A:VAL:HA	1:152:A:VAL:HG12	10	0.58
(1,2739)	1:123:A:LYS:HD3	1:123:A:LYS:HA	14	0.58
(1,2732)	1:184:A:SER:HA	1:59:A:GLN:HB2	4	0.58
(1,2732)	1:184:A:SER:HA	1:59:A:GLN:HB2	7	0.58
(1,2728)	1:127:A:VAL:HA	1:137:A:LEU:HD21	20	0.58
(1,2720)	1:41:A:ASN:HA	1:44:A:TYR:HE1	2	0.58
(1,2715)	1:4:A:LYS:HA	1:8:A:VAL:HG13	8	0.58
(1,2708)	1:15:A:GLN:HB3	1:15:A:GLN:HA	6	0.58
(1,2708)	1:15:A:GLN:HB3	1:15:A:GLN:HA	20	0.58
(1,2677)	1:144:A:MET:HG2	1:144:A:MET:HA	8	0.58
(1,2641)	1:85:A:ARG:HA	1:86:A:LEU:HD13	15	0.58
(1,2641)	1:85:A:ARG:HA	1:86:A:LEU:HD11	17	0.58
(1,2623)	1:113:A:LEU:HA	1:79:A:LEU:HD11	12	0.58
(1,2541)	1:136:A:GLY:HA2	1:130:A:VAL:HB	5	0.58
(1,2541)	1:136:A:GLY:HA2	1:130:A:VAL:HB	11	0.58
(1,2541)	1:136:A:GLY:HA2	1:130:A:VAL:HB	19	0.58
(1,2496)	1:140:A:ILE:HD11	1:128:A:ARG:HD3	13	0.58
(1,2471)	1:157:A:LYS:HE3	1:157:A:LYS:HD3	2	0.58
(1,2471)	1:157:A:LYS:HE3	1:157:A:LYS:HD3	8	0.58
(1,2471)	1:157:A:LYS:HE3	1:157:A:LYS:HD3	11	0.58
(1,2471)	1:157:A:LYS:HE3	1:157:A:LYS:HD3	16	0.58
(1,2471)	1:157:A:LYS:HE3	1:157:A:LYS:HD3	20	0.58
(1,2385)	1:159:A:GLU:HG3	1:154:A:ALA:HB1	16	0.58
(1,2282)	1:119:A:VAL:HB	1:97:A:ILE:HG21	4	0.58
(1,2282)	1:119:A:VAL:HB	1:97:A:ILE:HG22	10	0.58
(1,2282)	1:119:A:VAL:HB	1:97:A:ILE:HG22	11	0.58
(1,2144)	1:36:A:LYS:HD2	1:36:A:LYS:HB3	2	0.58
(1,2144)	1:36:A:LYS:HD2	1:36:A:LYS:HB3	5	0.58
(1,2124)	1:137:A:LEU:HD12	1:137:A:LEU:HB3	1	0.58
(1,2124)	1:137:A:LEU:HD13	1:137:A:LEU:HB3	18	0.58
(1,2091)	1:176:A:ARG:HG3	1:176:A:ARG:HD3	12	0.58
(1,2091)	1:176:A:ARG:HG3	1:176:A:ARG:HD3	19	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2077)	1:182:A:ILE:HG13	1:182:A:ILE:HG22	12	0.58
(1,2022)	1:93:A:LEU:HD11	1:72:A:VAL:H	7	0.58
(1,2019)	1:170:A:THR:HG21	1:93:A:LEU:HD13	16	0.58
(1,1981)	1:71:A:LEU:HD23	1:40:A:LEU:HB3	4	0.58
(1,1950)	1:94:A:LEU:HD22	1:71:A:LEU:HA	5	0.58
(1,1950)	1:94:A:LEU:HD23	1:71:A:LEU:HA	10	0.58
(1,1843)	1:40:A:LEU:HD21	1:44:A:TYR:HA	3	0.58
(1,1819)	1:79:A:LEU:HD21	1:150:A:VAL:HG13	10	0.58
(1,1794)	1:113:A:LEU:HD22	1:79:A:LEU:HB2	16	0.58
(1,1739)	1:119:A:VAL:HG13	1:53:A:MET:HB2	6	0.58
(1,1739)	1:119:A:VAL:HG12	1:53:A:MET:HB2	19	0.58
(1,1739)	1:119:A:VAL:HG11	1:53:A:MET:HB2	20	0.58
(1,1716)	1:119:A:VAL:HG23	1:55:A:MET:HG3	18	0.58
(1,1698)	1:91:A:ALA:HB1	1:98:A:LEU:HD21	3	0.58
(1,1575)	1:164:A:ILE:HD11	1:161:A:ASN:HB3	18	0.58
(1,1566)	1:97:A:ILE:HD11	1:121:A:SER:HA	7	0.58
(1,1470)	1:37:A:LYS:H	1:38:A:VAL:HG13	3	0.58
(1,1453)	1:35:A:GLU:H	1:34:A:TYR:HB2	2	0.58
(1,1453)	1:35:A:GLU:H	1:34:A:TYR:HB2	10	0.58
(1,1453)	1:35:A:GLU:H	1:34:A:TYR:HB2	16	0.58
(1,1163)	1:112:A:SER:H	1:111:A:ALA:HB1	1	0.58
(1,1151)	1:175:A:ASN:H	1:174:A:LEU:HD22	1	0.58
(1,1151)	1:175:A:ASN:H	1:174:A:LEU:HD22	7	0.58
(1,920)	1:31:A:VAL:H	1:32:A:ALA:HB3	12	0.58
(1,896)	1:176:A:ARG:H	1:176:A:ARG:HG2	1	0.58
(1,627)	1:98:A:LEU:H	1:97:A:ILE:HG12	3	0.58
(1,586)	1:185:A:GLU:H	1:184:A:SER:HB2	6	0.58
(1,497)	1:139:A:LEU:HA	1:128:A:ARG:HB2	19	0.58
(1,485)	1:64:A:GLU:HG3	1:67:A:LYS:HD3	12	0.58
(1,465)	1:38:A:VAL:HG23	1:37:A:LYS:HE2	11	0.58
(1,465)	1:38:A:VAL:HG22	1:37:A:LYS:HE2	19	0.58
(1,455)	1:151:A:GLU:HB2	1:116:A:LYS:HD3	6	0.58
(1,446)	1:22:A:ASP:HA	1:21:A:LYS:HG3	19	0.58
(1,397)	1:109:A:ILE:HA	1:110:A:PHE:HE2	7	0.58
(1,397)	1:109:A:ILE:HA	1:110:A:PHE:HE2	9	0.58
(1,360)	1:52:A:ILE:HA	1:60:A:MET:HE2	6	0.58
(1,360)	1:52:A:ILE:HA	1:60:A:MET:HE3	7	0.58
(1,360)	1:52:A:ILE:HA	1:60:A:MET:HE2	9	0.58
(1,360)	1:52:A:ILE:HA	1:60:A:MET:HE3	11	0.58
(1,360)	1:52:A:ILE:HA	1:60:A:MET:HE3	16	0.58
(1,360)	1:52:A:ILE:HA	1:60:A:MET:HE2	19	0.58
(1,347)	1:162:A:SER:HB3	1:166:A:ILE:HD11	5	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,346)	1:159:A:GLU:HB3	1:162:A:SER:HB2	16	0.58
(1,297)	1:19:A:LEU:HB3	1:18:A:SER:HB3	20	0.58
(1,293)	1:67:A:LYS:HE3	1:64:A:GLU:HA	19	0.58
(1,210)	1:70:A:LYS:HD3	1:8:A:VAL:HG23	6	0.58
(1,175)	1:67:A:LYS:HG3	1:37:A:LYS:HG2	13	0.58
(1,159)	1:71:A:LEU:HD13	1:94:A:LEU:HA	7	0.58
(1,159)	1:71:A:LEU:HD13	1:94:A:LEU:HA	13	0.58
(1,135)	1:157:A:LYS:HG2	1:134:A:GLU:HB3	9	0.58
(1,134)	1:77:A:VAL:HG21	1:163:A:TRP:HZ2	11	0.58
(1,133)	1:86:A:LEU:HD12	1:153:A:HIS:HB2	18	0.58
(1,124)	1:45:A:THR:HG21	1:46:A:LYS:HB3	1	0.58
(1,124)	1:45:A:THR:HG23	1:46:A:LYS:HB3	14	0.58
(1,100)	1:171:A:ILE:HD11	1:125:A:LEU:HB3	14	0.58
(1,89)	1:127:A:VAL:H	1:127:A:VAL:HG11	20	0.58
(1,65)	1:15:A:GLN:H	1:15:A:GLN:HG2	6	0.58
(1,47)	1:175:A:ASN:H	1:173:A:THR:HG23	18	0.58
(2,2)	1:72:A:VAL:H	1:93:A:LEU:O	19	0.57
(2,2)	1:72:A:VAL:H	1:93:A:LEU:O	20	0.57
(1,3507)	1:43:A:ILE:HD11	1:108:A:TYR:HE2	2	0.57
(1,3486)	1:138:A:PHE:HE2	1:128:A:ARG:HB3	16	0.57
(1,3451)	1:66:A:LEU:HB3	1:44:A:TYR:HD2	20	0.57
(1,3448)	1:34:A:TYR:HD1	1:38:A:VAL:HG22	10	0.57
(1,3399)	1:125:A:LEU:HD21	1:170:A:THR:HB	9	0.57
(1,3380)	1:40:A:LEU:HG	1:43:A:ILE:HD11	9	0.57
(1,3380)	1:40:A:LEU:HG	1:43:A:ILE:HD11	14	0.57
(1,3352)	1:101:A:LEU:HD13	1:100:A:PHE:HA	11	0.57
(1,3341)	1:55:A:MET:HE2	1:61:A:PHE:HB2	5	0.57
(1,3341)	1:55:A:MET:HE3	1:61:A:PHE:HB2	10	0.57
(1,3341)	1:55:A:MET:HE1	1:61:A:PHE:HB2	18	0.57
(1,3313)	1:109:A:ILE:HD11	1:104:A:LYS:HA	20	0.57
(1,3310)	1:45:A:THR:HB	1:42:A:GLU:HB2	7	0.57
(1,3307)	1:53:A:MET:HE1	1:61:A:PHE:HE1	9	0.57
(1,3307)	1:53:A:MET:HE3	1:61:A:PHE:HE1	19	0.57
(1,3294)	1:65:A:ASP:HA	1:61:A:PHE:HE2	6	0.57
(1,3271)	1:169:A:ASP:H	1:171:A:ILE:HD13	13	0.57
(1,3263)	1:149:A:MET:HE1	1:142:A:MET:HE3	1	0.57
(1,3263)	1:149:A:MET:HE3	1:142:A:MET:HE2	20	0.57
(1,3260)	1:171:A:ILE:HA	1:125:A:LEU:HD13	5	0.57
(1,3260)	1:171:A:ILE:HA	1:125:A:LEU:HD11	12	0.57
(1,3260)	1:171:A:ILE:HA	1:125:A:LEU:HD11	20	0.57
(1,3214)	1:15:A:GLN:HB3	1:2:A:MET:HG2	19	0.57
(1,3191)	1:33:A:SER:HA	1:32:A:ALA:HB3	9	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3191)	1:33:A:SER:HA	1:32:A:ALA:HB3	11	0.57
(1,3156)	1:142:A:MET:HE3	1:142:A:MET:HA	3	0.57
(1,3156)	1:142:A:MET:HE2	1:142:A:MET:HA	6	0.57
(1,3100)	1:128:A:ARG:HB3	1:128:A:ARG:HD2	8	0.57
(1,3100)	1:128:A:ARG:HB3	1:128:A:ARG:HD2	9	0.57
(1,3100)	1:128:A:ARG:HB3	1:128:A:ARG:HD2	11	0.57
(1,3021)	1:140:A:ILE:HD11	1:138:A:PHE:HE2	8	0.57
(1,3005)	1:177:A:ASP:HB3	1:177:A:ASP:HA	1	0.57
(1,3005)	1:177:A:ASP:HB3	1:177:A:ASP:HA	4	0.57
(1,3005)	1:177:A:ASP:HB3	1:177:A:ASP:HA	8	0.57
(1,3005)	1:177:A:ASP:HB3	1:177:A:ASP:HA	10	0.57
(1,3005)	1:177:A:ASP:HB3	1:177:A:ASP:HA	11	0.57
(1,3005)	1:177:A:ASP:HB3	1:177:A:ASP:HA	15	0.57
(1,3005)	1:177:A:ASP:HB3	1:177:A:ASP:HA	16	0.57
(1,2945)	1:53:A:MET:HE3	1:52:A:ILE:HG21	9	0.57
(1,2945)	1:53:A:MET:HE1	1:52:A:ILE:HG22	18	0.57
(1,2945)	1:53:A:MET:HE3	1:52:A:ILE:HG21	19	0.57
(1,2945)	1:53:A:MET:HE2	1:52:A:ILE:HG21	20	0.57
(1,2917)	1:141:A:SER:HB3	1:140:A:ILE:HG21	2	0.57
(1,2865)	1:93:A:LEU:HD22	1:167:A:ILE:HA	1	0.57
(1,2845)	1:72:A:VAL:HG22	1:72:A:VAL:HA	7	0.57
(1,2845)	1:72:A:VAL:HG21	1:72:A:VAL:HA	8	0.57
(1,2845)	1:72:A:VAL:HG23	1:72:A:VAL:HA	9	0.57
(1,2845)	1:72:A:VAL:HG23	1:72:A:VAL:HA	11	0.57
(1,2845)	1:72:A:VAL:HG21	1:72:A:VAL:HA	12	0.57
(1,2845)	1:72:A:VAL:HG23	1:72:A:VAL:HA	13	0.57
(1,2845)	1:72:A:VAL:HG23	1:72:A:VAL:HA	14	0.57
(1,2845)	1:72:A:VAL:HG23	1:72:A:VAL:HA	17	0.57
(1,2845)	1:72:A:VAL:HG21	1:72:A:VAL:HA	19	0.57
(1,2826)	1:147:A:PRO:HA	1:140:A:ILE:HG23	9	0.57
(1,2783)	1:117:A:SER:HA	1:55:A:MET:HB3	18	0.57
(1,2773)	1:77:A:VAL:HA	1:152:A:VAL:HG11	11	0.57
(1,2768)	1:159:A:GLU:HG2	1:159:A:GLU:HA	18	0.57
(1,2720)	1:41:A:ASN:HA	1:44:A:TYR:HE1	10	0.57
(1,2629)	1:137:A:LEU:HA	1:130:A:VAL:HG22	14	0.57
(1,2567)	1:146:A:ASP:HA	1:147:A:PRO:HG2	19	0.57
(1,2496)	1:140:A:ILE:HD12	1:128:A:ARG:HD3	3	0.57
(1,2493)	1:128:A:ARG:HB2	1:128:A:ARG:HD3	6	0.57
(1,2471)	1:157:A:LYS:HE3	1:157:A:LYS:HD3	5	0.57
(1,2471)	1:157:A:LYS:HE3	1:157:A:LYS:HD3	6	0.57
(1,2471)	1:157:A:LYS:HE3	1:157:A:LYS:HD3	13	0.57
(1,2471)	1:157:A:LYS:HE3	1:157:A:LYS:HD3	17	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2391)	1:151:A:GLU:HG3	1:80:A:LYS:HB3	19	0.57
(1,2385)	1:159:A:GLU:HG3	1:154:A:ALA:HB2	7	0.57
(1,2385)	1:159:A:GLU:HG3	1:154:A:ALA:HB1	14	0.57
(1,2385)	1:159:A:GLU:HG3	1:154:A:ALA:HB2	19	0.57
(1,2359)	1:134:A:GLU:HG3	1:157:A:LYS:HB3	20	0.57
(1,2324)	1:89:A:VAL:HG12	1:87:A:LYS:HB3	7	0.57
(1,2324)	1:89:A:VAL:HG11	1:87:A:LYS:HB3	20	0.57
(1,2282)	1:119:A:VAL:HB	1:97:A:ILE:HG21	18	0.57
(1,2282)	1:119:A:VAL:HB	1:97:A:ILE:HG22	19	0.57
(1,2251)	1:11:A:GLU:HB2	1:19:A:LEU:HD11	7	0.57
(1,2206)	1:165:A:GLN:HB2	1:164:A:ILE:HG23	9	0.57
(1,2144)	1:36:A:LYS:HD2	1:36:A:LYS:HB3	4	0.57
(1,2144)	1:36:A:LYS:HD2	1:36:A:LYS:HB3	14	0.57
(1,2144)	1:36:A:LYS:HD2	1:36:A:LYS:HB3	15	0.57
(1,2144)	1:36:A:LYS:HD2	1:36:A:LYS:HB3	16	0.57
(1,2124)	1:137:A:LEU:HD12	1:137:A:LEU:HB3	2	0.57
(1,2124)	1:137:A:LEU:HD12	1:137:A:LEU:HB3	4	0.57
(1,2124)	1:137:A:LEU:HD11	1:137:A:LEU:HB3	5	0.57
(1,2124)	1:137:A:LEU:HD13	1:137:A:LEU:HB3	11	0.57
(1,2124)	1:137:A:LEU:HD11	1:137:A:LEU:HB3	15	0.57
(1,2124)	1:137:A:LEU:HD12	1:137:A:LEU:HB3	17	0.57
(1,2091)	1:176:A:ARG:HG3	1:176:A:ARG:HD3	3	0.57
(1,2091)	1:176:A:ARG:HG3	1:176:A:ARG:HD3	5	0.57
(1,2091)	1:176:A:ARG:HG3	1:176:A:ARG:HD3	6	0.57
(1,2091)	1:176:A:ARG:HG3	1:176:A:ARG:HD3	15	0.57
(1,2077)	1:182:A:ILE:HG13	1:182:A:ILE:HG21	5	0.57
(1,2075)	1:98:A:LEU:HD13	1:100:A:PHE:HZ	8	0.57
(1,2046)	1:79:A:LEU:HD11	1:100:A:PHE:HA	11	0.57
(1,2032)	1:123:A:LYS:HG3	1:123:A:LYS:HE2	1	0.57
(1,2022)	1:93:A:LEU:HD13	1:72:A:VAL:H	12	0.57
(1,2022)	1:93:A:LEU:HD11	1:72:A:VAL:H	13	0.57
(1,2019)	1:170:A:THR:HG21	1:93:A:LEU:HD12	6	0.57
(1,1995)	1:174:A:LEU:HD12	1:12:A:ASP:HB2	20	0.57
(1,1950)	1:94:A:LEU:HD21	1:71:A:LEU:HA	13	0.57
(1,1950)	1:94:A:LEU:HD22	1:71:A:LEU:HA	16	0.57
(1,1904)	1:86:A:LEU:HD11	1:153:A:HIS:HD2	13	0.57
(1,1877)	1:66:A:LEU:HD21	1:44:A:TYR:HA	8	0.57
(1,1866)	1:95:A:THR:HG22	1:72:A:VAL:HA	18	0.57
(1,1843)	1:40:A:LEU:HD23	1:44:A:TYR:HA	8	0.57
(1,1819)	1:79:A:LEU:HD23	1:150:A:VAL:HG11	6	0.57
(1,1799)	1:127:A:VAL:HG13	1:137:A:LEU:HD22	11	0.57
(1,1760)	1:99:A:VAL:HG12	1:101:A:LEU:HD12	8	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1728)	1:31:A:VAL:HG11	1:35:A:GLU:HG3	12	0.57
(1,1716)	1:119:A:VAL:HG23	1:55:A:MET:HG3	9	0.57
(1,1698)	1:91:A:ALA:HB2	1:98:A:LEU:HD23	6	0.57
(1,1677)	1:109:A:ILE:HG21	1:48:A:ASP:HA	16	0.57
(1,1666)	1:97:A:ILE:HG21	1:119:A:VAL:HG21	4	0.57
(1,1642)	1:52:A:ILE:HG22	1:52:A:ILE:HG13	8	0.57
(1,1566)	1:97:A:ILE:HD11	1:121:A:SER:HA	3	0.57
(1,1566)	1:97:A:ILE:HD13	1:121:A:SER:HA	15	0.57
(1,1564)	1:97:A:ILE:HD11	1:97:A:ILE:H	11	0.57
(1,1530)	1:167:A:ILE:HD11	1:168:A:GLN:HB3	17	0.57
(1,1497)	1:54:A:ARG:H	1:54:A:ARG:HB2	17	0.57
(1,1470)	1:37:A:LYS:H	1:38:A:VAL:HG12	4	0.57
(1,1453)	1:35:A:GLU:H	1:34:A:TYR:HB2	6	0.57
(1,1453)	1:35:A:GLU:H	1:34:A:TYR:HB2	13	0.57
(1,1453)	1:35:A:GLU:H	1:34:A:TYR:HB2	14	0.57
(1,1453)	1:35:A:GLU:H	1:34:A:TYR:HB2	17	0.57
(1,1342)	1:100:A:PHE:H	1:98:A:LEU:HD22	7	0.57
(1,1342)	1:100:A:PHE:H	1:98:A:LEU:HD21	13	0.57
(1,1208)	1:25:A:GLY:H	1:24:A:ILE:HD11	1	0.57
(1,1208)	1:25:A:GLY:H	1:24:A:ILE:HD12	14	0.57
(1,1149)	1:175:A:ASN:H	1:175:A:ASN:HB3	11	0.57
(1,896)	1:176:A:ARG:H	1:176:A:ARG:HG2	6	0.57
(1,712)	1:74:A:ASP:H	1:71:A:LEU:HD12	12	0.57
(1,700)	1:137:A:LEU:H	1:137:A:LEU:HD22	17	0.57
(1,627)	1:98:A:LEU:H	1:97:A:ILE:HG12	10	0.57
(1,568)	1:88:A:GLU:H	1:78:A:PHE:HD2	14	0.57
(1,558)	1:93:A:LEU:H	1:91:A:ALA:HB1	1	0.57
(1,507)	1:153:A:HIS:HE1	1:132:A:HIS:HD2	10	0.57
(1,485)	1:64:A:GLU:HG2	1:67:A:LYS:HD3	1	0.57
(1,472)	1:135:A:LYS:HE2	1:135:A:LYS:HB3	16	0.57
(1,465)	1:38:A:VAL:HG22	1:37:A:LYS:HE2	20	0.57
(1,458)	1:15:A:GLN:HB3	1:4:A:LYS:HE2	17	0.57
(1,455)	1:151:A:GLU:HB2	1:116:A:LYS:HD3	9	0.57
(1,455)	1:151:A:GLU:HB2	1:116:A:LYS:HD3	12	0.57
(1,405)	1:43:A:ILE:HD11	1:39:A:ARG:HG3	15	0.57
(1,397)	1:109:A:ILE:HA	1:110:A:PHE:HE2	16	0.57
(1,360)	1:52:A:ILE:HA	1:60:A:MET:HE2	4	0.57
(1,360)	1:52:A:ILE:HA	1:60:A:MET:HE3	5	0.57
(1,346)	1:159:A:GLU:HB3	1:162:A:SER:HB2	3	0.57
(1,346)	1:159:A:GLU:HB3	1:162:A:SER:HB2	8	0.57
(1,346)	1:159:A:GLU:HB3	1:162:A:SER:HB2	10	0.57
(1,346)	1:159:A:GLU:HB3	1:162:A:SER:HB2	13	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,320)	1:138:A:PHE:HA	1:139:A:LEU:HD23	2	0.57
(1,299)	1:85:A:ARG:HD2	1:84:A:GLY:HA2	6	0.57
(1,297)	1:19:A:LEU:HB3	1:18:A:SER:HB2	9	0.57
(1,290)	1:83:A:ALA:HB2	1:85:A:ARG:HD3	9	0.57
(1,286)	1:39:A:ARG:HD2	1:71:A:LEU:HD23	9	0.57
(1,171)	1:107:A:LYS:HG3	1:47:A:THR:HA	8	0.57
(1,170)	1:107:A:LYS:HG3	1:46:A:LYS:HA	9	0.57
(1,168)	1:107:A:LYS:HG2	1:106:A:GLN:HG3	19	0.57
(1,160)	1:71:A:LEU:HD12	1:74:A:ASP:HA	7	0.57
(1,159)	1:71:A:LEU:HD11	1:94:A:LEU:HA	5	0.57
(1,134)	1:77:A:VAL:HG21	1:163:A:TRP:HZ2	2	0.57
(1,133)	1:86:A:LEU:HD11	1:153:A:HIS:HB2	11	0.57
(1,126)	1:95:A:THR:HG21	1:70:A:LYS:HD3	18	0.57
(1,124)	1:45:A:THR:HG21	1:46:A:LYS:HB3	2	0.57
(1,101)	1:164:A:ILE:HD11	1:129:A:GLU:HB3	9	0.57
(1,101)	1:164:A:ILE:HD11	1:129:A:GLU:HB3	12	0.57
(1,44)	1:117:A:SER:H	1:116:A:LYS:HD3	11	0.57
(1,42)	1:76:A:SER:H	1:77:A:VAL:HG11	17	0.57
(1,38)	1:138:A:PHE:H	1:164:A:ILE:HD11	9	0.57
(1,12)	1:140:A:ILE:H	1:127:A:VAL:HB	17	0.57
(2,16)	1:137:A:LEU:H	1:135:A:LYS:O	16	0.56
(2,9)	1:93:A:LEU:H	1:73:A:ARG:O	20	0.56
(1,3507)	1:43:A:ILE:HD12	1:108:A:TYR:HE2	5	0.56
(1,3507)	1:43:A:ILE:HD12	1:108:A:TYR:HE2	9	0.56
(1,3507)	1:43:A:ILE:HD13	1:108:A:TYR:HE2	19	0.56
(1,3451)	1:66:A:LEU:HB3	1:44:A:TYR:HD2	18	0.56
(1,3448)	1:34:A:TYR:HD1	1:38:A:VAL:HG23	6	0.56
(1,3401)	1:126:A:ILE:HG23	1:143:A:GLY:H	16	0.56
(1,3399)	1:125:A:LEU:HD23	1:170:A:THR:HB	10	0.56
(1,3399)	1:125:A:LEU:HD22	1:170:A:THR:HB	14	0.56
(1,3397)	1:45:A:THR:HG21	1:42:A:GLU:HG3	7	0.56
(1,3352)	1:101:A:LEU:HD13	1:100:A:PHE:HA	5	0.56
(1,3352)	1:101:A:LEU:HD12	1:100:A:PHE:HA	9	0.56
(1,3352)	1:101:A:LEU:HD12	1:100:A:PHE:HA	10	0.56
(1,3352)	1:101:A:LEU:HD11	1:100:A:PHE:HA	14	0.56
(1,3344)	1:149:A:MET:HE1	1:140:A:ILE:HG13	12	0.56
(1,3312)	1:109:A:ILE:HA	1:109:A:ILE:HD11	5	0.56
(1,3312)	1:109:A:ILE:HA	1:109:A:ILE:HD13	10	0.56
(1,3308)	1:53:A:MET:HE3	1:119:A:VAL:H	4	0.56
(1,3307)	1:53:A:MET:HE2	1:61:A:PHE:HE1	4	0.56
(1,3290)	1:39:A:ARG:HD3	1:38:A:VAL:HG13	18	0.56
(1,3271)	1:169:A:ASP:H	1:171:A:ILE:HD12	6	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3266)	1:52:A:ILE:HD12	1:60:A:MET:H	9	0.56
(1,3263)	1:149:A:MET:HE3	1:142:A:MET:HE1	10	0.56
(1,3263)	1:149:A:MET:HE2	1:142:A:MET:HE3	14	0.56
(1,3231)	1:86:A:LEU:HD22	1:153:A:HIS:HA	4	0.56
(1,3191)	1:33:A:SER:HA	1:32:A:ALA:HB3	13	0.56
(1,3191)	1:33:A:SER:HA	1:32:A:ALA:HB2	15	0.56
(1,3191)	1:33:A:SER:HA	1:32:A:ALA:HB2	19	0.56
(1,3156)	1:142:A:MET:HE2	1:142:A:MET:HA	13	0.56
(1,3156)	1:142:A:MET:HE3	1:142:A:MET:HA	19	0.56
(1,3116)	1:87:A:LYS:HE3	1:113:A:LEU:HD22	8	0.56
(1,3103)	1:73:A:ARG:HD2	1:166:A:ILE:HG22	9	0.56
(1,3103)	1:73:A:ARG:HD2	1:166:A:ILE:HG23	14	0.56
(1,3100)	1:128:A:ARG:HB3	1:128:A:ARG:HD2	7	0.56
(1,3100)	1:128:A:ARG:HB3	1:128:A:ARG:HD2	16	0.56
(1,3023)	1:140:A:ILE:HD12	1:139:A:LEU:HA	6	0.56
(1,3013)	1:156:A:SER:HA	1:135:A:LYS:HD3	1	0.56
(1,3013)	1:156:A:SER:HA	1:135:A:LYS:HD3	2	0.56
(1,3005)	1:177:A:ASP:HB3	1:177:A:ASP:HA	7	0.56
(1,3005)	1:177:A:ASP:HB3	1:177:A:ASP:HA	9	0.56
(1,3005)	1:177:A:ASP:HB3	1:177:A:ASP:HA	19	0.56
(1,2995)	1:24:A:ILE:HG13	1:24:A:ILE:HA	11	0.56
(1,2959)	1:110:A:PHE:HB2	1:119:A:VAL:HG12	3	0.56
(1,2945)	1:53:A:MET:HE3	1:52:A:ILE:HG23	5	0.56
(1,2945)	1:53:A:MET:HE3	1:52:A:ILE:HG23	6	0.56
(1,2845)	1:72:A:VAL:HG22	1:72:A:VAL:HA	1	0.56
(1,2845)	1:72:A:VAL:HG22	1:72:A:VAL:HA	4	0.56
(1,2845)	1:72:A:VAL:HG21	1:72:A:VAL:HA	10	0.56
(1,2826)	1:147:A:PRO:HA	1:140:A:ILE:HG21	12	0.56
(1,2820)	1:16:A:SER:HB3	1:16:A:SER:HA	1	0.56
(1,2820)	1:16:A:SER:HB3	1:16:A:SER:HA	5	0.56
(1,2820)	1:16:A:SER:HB3	1:16:A:SER:HA	13	0.56
(1,2820)	1:16:A:SER:HB3	1:16:A:SER:HA	14	0.56
(1,2739)	1:123:A:LYS:HD3	1:123:A:LYS:HA	1	0.56
(1,2732)	1:184:A:SER:HA	1:59:A:GLN:HB2	18	0.56
(1,2712)	1:46:A:LYS:HA	1:107:A:LYS:HB3	5	0.56
(1,2712)	1:46:A:LYS:HA	1:107:A:LYS:HB3	17	0.56
(1,2708)	1:15:A:GLN:HB3	1:15:A:GLN:HA	7	0.56
(1,2708)	1:15:A:GLN:HB3	1:15:A:GLN:HA	11	0.56
(1,2653)	1:80:A:LYS:HA	1:80:A:LYS:HD3	20	0.56
(1,2641)	1:85:A:ARG:HA	1:86:A:LEU:HD12	11	0.56
(1,2629)	1:137:A:LEU:HA	1:130:A:VAL:HG23	13	0.56
(1,2541)	1:136:A:GLY:HA2	1:130:A:VAL:HB	4	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2508)	1:73:A:ARG:HD2	1:166:A:ILE:HG12	19	0.56
(1,2496)	1:140:A:ILE:HD12	1:128:A:ARG:HD3	16	0.56
(1,2496)	1:140:A:ILE:HD12	1:128:A:ARG:HD3	20	0.56
(1,2477)	1:80:A:LYS:HE3	1:80:A:LYS:HB2	6	0.56
(1,2471)	1:157:A:LYS:HE3	1:157:A:LYS:HD3	4	0.56
(1,2471)	1:157:A:LYS:HE3	1:157:A:LYS:HD3	10	0.56
(1,2469)	1:22:A:ASP:HB2	1:24:A:ILE:HG12	16	0.56
(1,2465)	1:50:A:LYS:HG2	1:50:A:LYS:HE3	1	0.56
(1,2440)	1:28:A:ASP:HB3	1:25:A:GLY:HA3	7	0.56
(1,2432)	1:63:A:LYS:HE3	1:49:A:SER:HA	1	0.56
(1,2385)	1:159:A:GLU:HG3	1:154:A:ALA:HB3	6	0.56
(1,2324)	1:89:A:VAL:HG12	1:87:A:LYS:HB3	15	0.56
(1,2282)	1:119:A:VAL:HB	1:97:A:ILE:HG22	12	0.56
(1,2282)	1:119:A:VAL:HB	1:97:A:ILE:HG22	20	0.56
(1,2189)	1:171:A:ILE:HG22	1:123:A:LYS:HD3	19	0.56
(1,2179)	1:80:A:LYS:HD3	1:80:A:LYS:HB2	13	0.56
(1,2144)	1:36:A:LYS:HD2	1:36:A:LYS:HB3	7	0.56
(1,2144)	1:36:A:LYS:HD2	1:36:A:LYS:HB3	8	0.56
(1,2144)	1:36:A:LYS:HD2	1:36:A:LYS:HB3	9	0.56
(1,2144)	1:36:A:LYS:HD2	1:36:A:LYS:HB3	17	0.56
(1,2124)	1:137:A:LEU:HD12	1:137:A:LEU:HB3	3	0.56
(1,2124)	1:137:A:LEU:HD11	1:137:A:LEU:HB3	12	0.56
(1,2091)	1:176:A:ARG:HG3	1:176:A:ARG:HD3	13	0.56
(1,2046)	1:79:A:LEU:HD12	1:100:A:PHE:HA	20	0.56
(1,2019)	1:170:A:THR:HG23	1:93:A:LEU:HD12	8	0.56
(1,1977)	1:101:A:LEU:HD13	1:110:A:PHE:HA	15	0.56
(1,1950)	1:94:A:LEU:HD23	1:71:A:LEU:HA	2	0.56
(1,1950)	1:94:A:LEU:HD23	1:71:A:LEU:HA	14	0.56
(1,1926)	1:19:A:LEU:HD12	1:18:A:SER:HB2	3	0.56
(1,1904)	1:86:A:LEU:HD13	1:153:A:HIS:HD2	7	0.56
(1,1843)	1:40:A:LEU:HD22	1:44:A:TYR:HA	2	0.56
(1,1843)	1:40:A:LEU:HD23	1:44:A:TYR:HA	5	0.56
(1,1843)	1:40:A:LEU:HD23	1:44:A:TYR:HA	16	0.56
(1,1819)	1:79:A:LEU:HD23	1:150:A:VAL:HG11	8	0.56
(1,1797)	1:113:A:LEU:HD21	1:81:A:ASN:HB3	12	0.56
(1,1741)	1:119:A:VAL:HG12	1:110:A:PHE:HD1	2	0.56
(1,1739)	1:119:A:VAL:HG11	1:53:A:MET:HB2	10	0.56
(1,1716)	1:119:A:VAL:HG22	1:55:A:MET:HG3	4	0.56
(1,1716)	1:119:A:VAL:HG21	1:55:A:MET:HG3	20	0.56
(1,1677)	1:109:A:ILE:HG22	1:48:A:ASP:HA	8	0.56
(1,1666)	1:97:A:ILE:HG21	1:119:A:VAL:HG22	18	0.56
(1,1566)	1:97:A:ILE:HD12	1:121:A:SER:HA	9	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1564)	1:97:A:ILE:HD12	1:97:A:ILE:H	6	0.56
(1,1564)	1:97:A:ILE:HD12	1:97:A:ILE:H	15	0.56
(1,1546)	1:120:A:ILE:HD11	1:98:A:LEU:HB2	1	0.56
(1,1543)	1:120:A:ILE:HD11	1:98:A:LEU:HD21	2	0.56
(1,1543)	1:120:A:ILE:HD12	1:98:A:LEU:HD23	7	0.56
(1,1497)	1:54:A:ARG:H	1:54:A:ARG:HB2	13	0.56
(1,1470)	1:37:A:LYS:H	1:38:A:VAL:HG12	9	0.56
(1,1470)	1:37:A:LYS:H	1:38:A:VAL:HG13	17	0.56
(1,1457)	1:107:A:LYS:H	1:104:A:LYS:HB2	1	0.56
(1,1453)	1:35:A:GLU:H	1:34:A:TYR:HB2	3	0.56
(1,1453)	1:35:A:GLU:H	1:34:A:TYR:HB2	4	0.56
(1,1453)	1:35:A:GLU:H	1:34:A:TYR:HB2	9	0.56
(1,1453)	1:35:A:GLU:H	1:34:A:TYR:HB2	11	0.56
(1,1453)	1:35:A:GLU:H	1:34:A:TYR:HB2	19	0.56
(1,1426)	1:181:A:GLY:H	1:180:A:GLU:HB3	7	0.56
(1,1426)	1:181:A:GLY:H	1:180:A:GLU:HB3	15	0.56
(1,1342)	1:100:A:PHE:H	1:98:A:LEU:HD23	2	0.56
(1,1307)	1:63:A:LYS:H	1:47:A:THR:HG23	7	0.56
(1,1258)	1:75:A:GLY:H	1:74:A:ASP:HB3	3	0.56
(1,1258)	1:75:A:GLY:H	1:74:A:ASP:HB3	5	0.56
(1,1258)	1:75:A:GLY:H	1:74:A:ASP:HB3	18	0.56
(1,1208)	1:25:A:GLY:H	1:24:A:ILE:HD13	3	0.56
(1,1208)	1:25:A:GLY:H	1:24:A:ILE:HD13	8	0.56
(1,1184)	1:109:A:ILE:H	1:109:A:ILE:HD11	7	0.56
(1,1163)	1:112:A:SER:H	1:111:A:ALA:HB2	18	0.56
(1,1151)	1:175:A:ASN:H	1:174:A:LEU:HD21	6	0.56
(1,1149)	1:175:A:ASN:H	1:175:A:ASN:HB3	4	0.56
(1,1149)	1:175:A:ASN:H	1:175:A:ASN:HB3	6	0.56
(1,1014)	1:161:A:ASN:H	1:161:A:ASN:HD22	19	0.56
(1,920)	1:31:A:VAL:H	1:32:A:ALA:HB3	2	0.56
(1,701)	1:137:A:LEU:H	1:130:A:VAL:HG22	4	0.56
(1,701)	1:137:A:LEU:H	1:130:A:VAL:HG21	5	0.56
(1,568)	1:88:A:GLU:H	1:78:A:PHE:HD2	9	0.56
(1,472)	1:135:A:LYS:HE2	1:135:A:LYS:HB3	17	0.56
(1,455)	1:151:A:GLU:HB2	1:116:A:LYS:HD3	8	0.56
(1,432)	1:67:A:LYS:HE3	1:44:A:TYR:HD1	20	0.56
(1,397)	1:109:A:ILE:HA	1:110:A:PHE:HE2	5	0.56
(1,397)	1:109:A:ILE:HA	1:110:A:PHE:HE2	13	0.56
(1,384)	1:169:A:ASP:HA	1:165:A:GLN:HG3	4	0.56
(1,375)	1:49:A:SER:HB2	1:63:A:LYS:HE3	2	0.56
(1,373)	1:30:A:LYS:HB2	1:33:A:SER:HB2	2	0.56
(1,373)	1:30:A:LYS:HB2	1:33:A:SER:HB2	14	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,373)	1:30:A:LYS:HB2	1:33:A:SER:HB2	18	0.56
(1,370)	1:16:A:SER:HB3	1:4:A:LYS:HG2	15	0.56
(1,360)	1:52:A:ILE:HA	1:60:A:MET:HE2	20	0.56
(1,348)	1:162:A:SER:HB2	1:161:A:ASN:HB3	20	0.56
(1,346)	1:159:A:GLU:HB3	1:162:A:SER:HB2	14	0.56
(1,318)	1:125:A:LEU:HA	1:126:A:ILE:HG21	6	0.56
(1,315)	1:82:A:ALA:HA	1:116:A:LYS:HG3	4	0.56
(1,276)	1:22:A:ASP:HB2	1:21:A:LYS:HG3	4	0.56
(1,230)	1:67:A:LYS:HB3	1:67:A:LYS:HE2	10	0.56
(1,230)	1:67:A:LYS:HB3	1:67:A:LYS:HE2	14	0.56
(1,230)	1:67:A:LYS:HB3	1:67:A:LYS:HE2	15	0.56
(1,175)	1:67:A:LYS:HG3	1:37:A:LYS:HG2	5	0.56
(1,175)	1:67:A:LYS:HG3	1:37:A:LYS:HG2	8	0.56
(1,170)	1:107:A:LYS:HG3	1:46:A:LYS:HA	4	0.56
(1,170)	1:107:A:LYS:HG3	1:46:A:LYS:HA	17	0.56
(1,168)	1:107:A:LYS:HG2	1:106:A:GLN:HG3	3	0.56
(1,160)	1:71:A:LEU:HD12	1:74:A:ASP:HA	15	0.56
(1,159)	1:71:A:LEU:HD13	1:94:A:LEU:HA	15	0.56
(1,155)	1:71:A:LEU:HD23	1:39:A:ARG:HB2	20	0.56
(1,154)	1:71:A:LEU:HD13	1:74:A:ASP:HB2	6	0.56
(1,134)	1:77:A:VAL:HG13	1:163:A:TRP:HZ2	6	0.56
(1,134)	1:77:A:VAL:HG11	1:163:A:TRP:HZ2	18	0.56
(1,126)	1:95:A:THR:HG21	1:70:A:LYS:HD3	7	0.56
(1,124)	1:45:A:THR:HG22	1:46:A:LYS:HB3	10	0.56
(1,124)	1:45:A:THR:HG21	1:46:A:LYS:HB3	20	0.56
(1,110)	1:119:A:VAL:HG21	1:55:A:MET:HG2	6	0.56
(1,101)	1:164:A:ILE:HD13	1:129:A:GLU:HB3	8	0.56
(1,100)	1:171:A:ILE:HD13	1:125:A:LEU:HB3	8	0.56
(1,100)	1:171:A:ILE:HD11	1:125:A:LEU:HB3	11	0.56
(1,100)	1:171:A:ILE:HD12	1:125:A:LEU:HB3	17	0.56
(1,100)	1:171:A:ILE:HD13	1:125:A:LEU:HB3	19	0.56
(1,65)	1:15:A:GLN:H	1:15:A:GLN:HG2	8	0.56
(1,62)	1:4:A:LYS:H	1:5:A:ASP:HB2	20	0.56
(1,58)	1:13:A:LEU:H	1:19:A:LEU:HD11	13	0.56
(1,12)	1:140:A:ILE:H	1:127:A:VAL:HB	1	0.56
(1,12)	1:140:A:ILE:H	1:127:A:VAL:HB	15	0.56
(2,25)	1:168:A:GLN:H	1:164:A:ILE:O	13	0.55
(2,2)	1:72:A:VAL:H	1:93:A:LEU:O	8	0.55
(1,3486)	1:138:A:PHE:HE2	1:128:A:ARG:HB3	18	0.55
(1,3451)	1:66:A:LEU:HB3	1:44:A:TYR:HD2	15	0.55
(1,3397)	1:45:A:THR:HG21	1:42:A:GLU:HG3	15	0.55
(1,3394)	1:134:A:GLU:HG2	1:157:A:LYS:HG3	6	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3393)	1:154:A:ALA:HB2	1:160:A:ARG:HB3	18	0.55
(1,3369)	1:174:A:LEU:HD23	1:95:A:THR:HG22	2	0.55
(1,3352)	1:101:A:LEU:HD12	1:100:A:PHE:HA	4	0.55
(1,3352)	1:101:A:LEU:HD11	1:100:A:PHE:HA	13	0.55
(1,3341)	1:55:A:MET:HE3	1:61:A:PHE:HB2	1	0.55
(1,3312)	1:109:A:ILE:HA	1:109:A:ILE:HD13	1	0.55
(1,3312)	1:109:A:ILE:HA	1:109:A:ILE:HD11	11	0.55
(1,3312)	1:109:A:ILE:HA	1:109:A:ILE:HD12	15	0.55
(1,3312)	1:109:A:ILE:HA	1:109:A:ILE:HD11	20	0.55
(1,3310)	1:45:A:THR:HB	1:42:A:GLU:HB2	5	0.55
(1,3307)	1:53:A:MET:HE1	1:61:A:PHE:HE1	2	0.55
(1,3307)	1:53:A:MET:HE2	1:61:A:PHE:HE1	11	0.55
(1,3294)	1:65:A:ASP:HA	1:61:A:PHE:HE2	2	0.55
(1,3277)	1:111:A:ALA:HB3	1:100:A:PHE:HD2	8	0.55
(1,3271)	1:169:A:ASP:H	1:171:A:ILE:HD12	2	0.55
(1,3271)	1:169:A:ASP:H	1:171:A:ILE:HD12	4	0.55
(1,3271)	1:169:A:ASP:H	1:171:A:ILE:HD11	8	0.55
(1,3271)	1:169:A:ASP:H	1:171:A:ILE:HD12	15	0.55
(1,3271)	1:169:A:ASP:H	1:171:A:ILE:HD13	18	0.55
(1,3271)	1:169:A:ASP:H	1:171:A:ILE:HD13	20	0.55
(1,3215)	1:15:A:GLN:HB2	1:2:A:MET:HG3	5	0.55
(1,3197)	1:111:A:ALA:HB3	1:118:A:THR:HA	2	0.55
(1,3197)	1:111:A:ALA:HB3	1:118:A:THR:HA	8	0.55
(1,3197)	1:111:A:ALA:HB1	1:118:A:THR:HA	15	0.55
(1,3156)	1:142:A:MET:HE2	1:142:A:MET:HA	4	0.55
(1,3156)	1:142:A:MET:HE1	1:142:A:MET:HA	5	0.55
(1,3156)	1:142:A:MET:HE2	1:142:A:MET:HA	16	0.55
(1,3152)	1:97:A:ILE:HD11	1:65:A:ASP:HB3	5	0.55
(1,3100)	1:128:A:ARG:HB3	1:128:A:ARG:HD2	2	0.55
(1,3100)	1:128:A:ARG:HB3	1:128:A:ARG:HD2	4	0.55
(1,3100)	1:128:A:ARG:HB3	1:128:A:ARG:HD2	20	0.55
(1,3067)	1:130:A:VAL:HG13	1:130:A:VAL:HA	8	0.55
(1,3019)	1:115:A:GLN:HG2	1:114:A:ASP:HB2	6	0.55
(1,3006)	1:22:A:ASP:HA	1:15:A:GLN:HB2	14	0.55
(1,3005)	1:177:A:ASP:HB3	1:177:A:ASP:HA	13	0.55
(1,3005)	1:177:A:ASP:HB3	1:177:A:ASP:HA	18	0.55
(1,2945)	1:53:A:MET:HE3	1:52:A:ILE:HG22	2	0.55
(1,2945)	1:53:A:MET:HE3	1:52:A:ILE:HG23	13	0.55
(1,2917)	1:141:A:SER:HB3	1:140:A:ILE:HG21	16	0.55
(1,2845)	1:72:A:VAL:HG23	1:72:A:VAL:HA	3	0.55
(1,2845)	1:72:A:VAL:HG22	1:72:A:VAL:HA	6	0.55
(1,2820)	1:16:A:SER:HB3	1:16:A:SER:HA	6	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2820)	1:16:A:SER:HB3	1:16:A:SER:HA	9	0.55
(1,2820)	1:16:A:SER:HB3	1:16:A:SER:HA	20	0.55
(1,2773)	1:77:A:VAL:HA	1:152:A:VAL:HG11	12	0.55
(1,2728)	1:127:A:VAL:HA	1:137:A:LEU:HD21	6	0.55
(1,2712)	1:46:A:LYS:HA	1:107:A:LYS:HB3	3	0.55
(1,2708)	1:15:A:GLN:HB3	1:15:A:GLN:HA	16	0.55
(1,2680)	1:50:A:LYS:HG2	1:50:A:LYS:HA	10	0.55
(1,2605)	1:133:A:GLU:HA	1:130:A:VAL:HG11	17	0.55
(1,2541)	1:136:A:GLY:HA2	1:130:A:VAL:HB	10	0.55
(1,2541)	1:136:A:GLY:HA2	1:130:A:VAL:HB	17	0.55
(1,2496)	1:140:A:ILE:HD12	1:128:A:ARG:HD3	1	0.55
(1,2496)	1:140:A:ILE:HD12	1:128:A:ARG:HD3	4	0.55
(1,2477)	1:80:A:LYS:HE3	1:80:A:LYS:HB2	4	0.55
(1,2471)	1:157:A:LYS:HE3	1:157:A:LYS:HD3	1	0.55
(1,2469)	1:22:A:ASP:HB2	1:24:A:ILE:HG12	12	0.55
(1,2440)	1:28:A:ASP:HB3	1:25:A:GLY:HA3	11	0.55
(1,2385)	1:159:A:GLU:HG3	1:154:A:ALA:HB1	1	0.55
(1,2385)	1:159:A:GLU:HG3	1:154:A:ALA:HB2	5	0.55
(1,2385)	1:159:A:GLU:HG3	1:154:A:ALA:HB1	8	0.55
(1,2385)	1:159:A:GLU:HG3	1:154:A:ALA:HB2	15	0.55
(1,2384)	1:35:A:GLU:HG3	1:38:A:VAL:HG22	11	0.55
(1,2324)	1:89:A:VAL:HG13	1:87:A:LYS:HB3	19	0.55
(1,2282)	1:119:A:VAL:HB	1:97:A:ILE:HG21	5	0.55
(1,2282)	1:119:A:VAL:HB	1:97:A:ILE:HG23	6	0.55
(1,2216)	1:104:A:LYS:HD3	1:104:A:LYS:HG3	1	0.55
(1,2216)	1:104:A:LYS:HD3	1:104:A:LYS:HG3	2	0.55
(1,2216)	1:104:A:LYS:HD3	1:104:A:LYS:HG3	10	0.55
(1,2216)	1:104:A:LYS:HD3	1:104:A:LYS:HG3	15	0.55
(1,2216)	1:104:A:LYS:HD3	1:104:A:LYS:HG3	20	0.55
(1,2190)	1:123:A:LYS:HD3	1:180:A:GLU:HA	3	0.55
(1,2167)	1:67:A:LYS:HD3	1:67:A:LYS:H	9	0.55
(1,2144)	1:36:A:LYS:HD2	1:36:A:LYS:HB3	11	0.55
(1,2144)	1:36:A:LYS:HD2	1:36:A:LYS:HB3	18	0.55
(1,2124)	1:137:A:LEU:HD11	1:137:A:LEU:HB3	6	0.55
(1,2124)	1:137:A:LEU:HD11	1:137:A:LEU:HB3	7	0.55
(1,2124)	1:137:A:LEU:HD11	1:137:A:LEU:HB3	16	0.55
(1,2124)	1:137:A:LEU:HD12	1:137:A:LEU:HB3	19	0.55
(1,2077)	1:182:A:ILE:HG13	1:182:A:ILE:HG22	2	0.55
(1,2019)	1:170:A:THR:HG22	1:93:A:LEU:HD12	2	0.55
(1,2019)	1:170:A:THR:HG23	1:93:A:LEU:HD12	10	0.55
(1,1995)	1:174:A:LEU:HD12	1:12:A:ASP:HB2	3	0.55
(1,1995)	1:174:A:LEU:HD11	1:12:A:ASP:HB2	6	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1995)	1:174:A:LEU:HD12	1:12:A:ASP:HB2	11	0.55
(1,1981)	1:71:A:LEU:HD23	1:40:A:LEU:HB3	1	0.55
(1,1981)	1:71:A:LEU:HD22	1:40:A:LEU:HB3	19	0.55
(1,1970)	1:101:A:LEU:HD13	1:99:A:VAL:HG23	4	0.55
(1,1950)	1:94:A:LEU:HD21	1:71:A:LEU:HA	9	0.55
(1,1950)	1:94:A:LEU:HD23	1:71:A:LEU:HA	12	0.55
(1,1949)	1:94:A:LEU:HD21	1:69:A:LYS:HA	13	0.55
(1,1932)	1:94:A:LEU:HD23	1:94:A:LEU:HA	1	0.55
(1,1932)	1:94:A:LEU:HD22	1:94:A:LEU:HA	6	0.55
(1,1904)	1:86:A:LEU:HD11	1:153:A:HIS:HD2	20	0.55
(1,1843)	1:40:A:LEU:HD23	1:44:A:TYR:HA	13	0.55
(1,1843)	1:40:A:LEU:HD22	1:44:A:TYR:HA	17	0.55
(1,1843)	1:40:A:LEU:HD23	1:44:A:TYR:HA	18	0.55
(1,1720)	1:154:A:ALA:HB3	1:77:A:VAL:HG12	2	0.55
(1,1720)	1:154:A:ALA:HB2	1:77:A:VAL:HG11	11	0.55
(1,1698)	1:91:A:ALA:HB2	1:98:A:LEU:HD23	2	0.55
(1,1698)	1:91:A:ALA:HB2	1:98:A:LEU:HD23	5	0.55
(1,1698)	1:91:A:ALA:HB1	1:98:A:LEU:HD23	9	0.55
(1,1602)	1:149:A:MET:HE2	1:138:A:PHE:HD1	19	0.55
(1,1575)	1:164:A:ILE:HD13	1:161:A:ASN:HB3	11	0.55
(1,1566)	1:97:A:ILE:HD12	1:121:A:SER:HA	17	0.55
(1,1564)	1:97:A:ILE:HD12	1:97:A:ILE:H	12	0.55
(1,1543)	1:120:A:ILE:HD12	1:98:A:LEU:HD22	9	0.55
(1,1519)	1:109:A:ILE:HD12	1:104:A:LYS:HG2	3	0.55
(1,1504)	1:163:A:TRP:HE1	1:75:A:GLY:HA2	15	0.55
(1,1497)	1:54:A:ARG:H	1:54:A:ARG:HB2	9	0.55
(1,1470)	1:37:A:LYS:H	1:38:A:VAL:HG13	14	0.55
(1,1464)	1:180:A:GLU:H	1:180:A:GLU:HG2	7	0.55
(1,1453)	1:35:A:GLU:H	1:34:A:TYR:HB2	1	0.55
(1,1453)	1:35:A:GLU:H	1:34:A:TYR:HB2	5	0.55
(1,1453)	1:35:A:GLU:H	1:34:A:TYR:HB2	20	0.55
(1,1386)	1:175:A:ASN:HD21	1:171:A:ILE:HG21	18	0.55
(1,1378)	1:41:A:ASN:HD22	1:45:A:THR:HG21	12	0.55
(1,1301)	1:79:A:LEU:H	1:78:A:PHE:HD2	18	0.55
(1,1208)	1:25:A:GLY:H	1:24:A:ILE:HD11	6	0.55
(1,1208)	1:25:A:GLY:H	1:24:A:ILE:HD11	19	0.55
(1,1184)	1:109:A:ILE:H	1:109:A:ILE:HD12	12	0.55
(1,1149)	1:175:A:ASN:H	1:175:A:ASN:HB3	9	0.55
(1,1149)	1:175:A:ASN:H	1:175:A:ASN:HB3	14	0.55
(1,1061)	1:172:A:ASN:H	1:171:A:ILE:HD11	20	0.55
(1,962)	1:77:A:VAL:H	1:76:A:SER:HB3	14	0.55
(1,920)	1:31:A:VAL:H	1:32:A:ALA:HB1	3	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,920)	1:31:A:VAL:H	1:32:A:ALA:HB3	5	0.55
(1,913)	1:50:A:LYS:H	1:50:A:LYS:HG2	12	0.55
(1,896)	1:176:A:ARG:H	1:176:A:ARG:HG2	13	0.55
(1,823)	1:86:A:LEU:H	1:85:A:ARG:HB2	10	0.55
(1,568)	1:88:A:GLU:H	1:78:A:PHE:HD2	8	0.55
(1,516)	1:153:A:HIS:HD2	1:133:A:GLU:HB3	17	0.55
(1,482)	1:19:A:LEU:HG	1:19:A:LEU:HD23	14	0.55
(1,482)	1:19:A:LEU:HG	1:19:A:LEU:HD23	15	0.55
(1,455)	1:151:A:GLU:HB2	1:116:A:LYS:HD3	14	0.55
(1,455)	1:151:A:GLU:HB2	1:116:A:LYS:HD2	16	0.55
(1,405)	1:43:A:ILE:HD11	1:39:A:ARG:HG3	6	0.55
(1,405)	1:43:A:ILE:HD11	1:39:A:ARG:HG3	14	0.55
(1,404)	1:36:A:LYS:HA	1:35:A:GLU:HB3	4	0.55
(1,397)	1:109:A:ILE:HA	1:110:A:PHE:HE2	1	0.55
(1,397)	1:109:A:ILE:HA	1:110:A:PHE:HE2	3	0.55
(1,384)	1:169:A:ASP:HA	1:165:A:GLN:HG3	7	0.55
(1,375)	1:49:A:SER:HB3	1:63:A:LYS:HE3	12	0.55
(1,346)	1:159:A:GLU:HB3	1:162:A:SER:HB2	15	0.55
(1,337)	1:184:A:SER:HA	1:185:A:GLU:HB3	8	0.55
(1,318)	1:142:A:MET:HA	1:126:A:ILE:HG22	19	0.55
(1,296)	1:19:A:LEU:HB2	1:15:A:GLN:HA	15	0.55
(1,290)	1:83:A:ALA:HB2	1:85:A:ARG:HD3	19	0.55
(1,230)	1:67:A:LYS:HB3	1:67:A:LYS:HE2	17	0.55
(1,230)	1:67:A:LYS:HB3	1:67:A:LYS:HE2	20	0.55
(1,199)	1:56:A:LYS:HD3	1:56:A:LYS:HB3	11	0.55
(1,170)	1:107:A:LYS:HG3	1:46:A:LYS:HA	20	0.55
(1,159)	1:71:A:LEU:HD13	1:94:A:LEU:HA	12	0.55
(1,134)	1:77:A:VAL:HG22	1:163:A:TRP:HZ2	12	0.55
(1,124)	1:45:A:THR:HG21	1:46:A:LYS:HB3	5	0.55
(1,116)	1:89:A:VAL:HG11	1:87:A:LYS:HD3	11	0.55
(1,100)	1:171:A:ILE:HD11	1:125:A:LEU:HB3	4	0.55
(1,100)	1:171:A:ILE:HD12	1:125:A:LEU:HB3	16	0.55
(1,58)	1:13:A:LEU:H	1:19:A:LEU:HD13	7	0.55
(1,42)	1:76:A:SER:H	1:77:A:VAL:HG13	2	0.55
(1,12)	1:140:A:ILE:H	1:127:A:VAL:HB	5	0.55
(1,12)	1:140:A:ILE:H	1:127:A:VAL:HB	11	0.55
(1,12)	1:140:A:ILE:H	1:127:A:VAL:HB	14	0.55
(1,5)	1:120:A:ILE:H	1:97:A:ILE:HG21	17	0.55
(2,21)	1:161:A:ASN:H	1:158:A:GLU:O	1	0.54
(2,3)	1:78:A:PHE:H	1:153:A:HIS:O	12	0.54
(1,3507)	1:43:A:ILE:HD13	1:108:A:TYR:HE2	12	0.54
(1,3507)	1:43:A:ILE:HD12	1:108:A:TYR:HE2	14	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3501)	1:86:A:LEU:HB2	1:78:A:PHE:HD2	1	0.54
(1,3397)	1:45:A:THR:HG21	1:42:A:GLU:HG3	9	0.54
(1,3397)	1:45:A:THR:HG23	1:42:A:GLU:HG3	10	0.54
(1,3325)	1:112:A:SER:HA	1:53:A:MET:HE1	12	0.54
(1,3325)	1:112:A:SER:HA	1:53:A:MET:HE1	20	0.54
(1,3307)	1:53:A:MET:HE1	1:61:A:PHE:HE1	7	0.54
(1,3307)	1:53:A:MET:HE1	1:61:A:PHE:HE1	13	0.54
(1,3271)	1:169:A:ASP:H	1:171:A:ILE:HD12	11	0.54
(1,3266)	1:52:A:ILE:HD11	1:60:A:MET:H	17	0.54
(1,3266)	1:52:A:ILE:HD13	1:60:A:MET:H	18	0.54
(1,3263)	1:149:A:MET:HE2	1:142:A:MET:HE2	4	0.54
(1,3263)	1:149:A:MET:HE3	1:142:A:MET:HE1	7	0.54
(1,3263)	1:149:A:MET:HE3	1:142:A:MET:HE2	12	0.54
(1,3215)	1:15:A:GLN:HB2	1:2:A:MET:HG3	8	0.54
(1,3191)	1:33:A:SER:HA	1:32:A:ALA:HB1	6	0.54
(1,3158)	1:179:A:ASP:HA	1:179:A:ASP:HB2	10	0.54
(1,3156)	1:142:A:MET:HE1	1:142:A:MET:HA	9	0.54
(1,3100)	1:128:A:ARG:HB3	1:128:A:ARG:HD2	3	0.54
(1,3100)	1:128:A:ARG:HB3	1:128:A:ARG:HD2	13	0.54
(1,3067)	1:130:A:VAL:HG12	1:130:A:VAL:HA	13	0.54
(1,3019)	1:115:A:GLN:HG2	1:114:A:ASP:HB2	2	0.54
(1,2959)	1:110:A:PHE:HB2	1:119:A:VAL:HG13	5	0.54
(1,2959)	1:110:A:PHE:HB2	1:119:A:VAL:HG12	17	0.54
(1,2945)	1:53:A:MET:HE2	1:52:A:ILE:HG22	11	0.54
(1,2945)	1:53:A:MET:HE3	1:52:A:ILE:HG22	12	0.54
(1,2924)	1:166:A:ILE:HD13	1:163:A:TRP:HA	14	0.54
(1,2810)	1:123:A:LYS:HA	1:123:A:LYS:HE2	16	0.54
(1,2783)	1:117:A:SER:HA	1:55:A:MET:HB3	1	0.54
(1,2783)	1:117:A:SER:HA	1:55:A:MET:HB3	11	0.54
(1,2758)	1:44:A:TYR:HA	1:44:A:TYR:HE2	5	0.54
(1,2732)	1:184:A:SER:HA	1:59:A:GLN:HB2	15	0.54
(1,2712)	1:46:A:LYS:HA	1:107:A:LYS:HB3	1	0.54
(1,2712)	1:46:A:LYS:HA	1:107:A:LYS:HB3	9	0.54
(1,2712)	1:46:A:LYS:HA	1:107:A:LYS:HB3	12	0.54
(1,2680)	1:50:A:LYS:HG2	1:50:A:LYS:HA	4	0.54
(1,2657)	1:108:A:TYR:HA	1:109:A:ILE:HD12	2	0.54
(1,2657)	1:108:A:TYR:HA	1:109:A:ILE:HD11	18	0.54
(1,2641)	1:85:A:ARG:HA	1:86:A:LEU:HD11	14	0.54
(1,2567)	1:146:A:ASP:HA	1:147:A:PRO:HG2	20	0.54
(1,2477)	1:80:A:LYS:HE3	1:80:A:LYS:HB2	10	0.54
(1,2442)	1:146:A:ASP:HB3	1:147:A:PRO:HD3	15	0.54
(1,2385)	1:159:A:GLU:HG3	1:154:A:ALA:HB2	3	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2385)	1:159:A:GLU:HG3	1:154:A:ALA:HB2	10	0.54
(1,2324)	1:89:A:VAL:HG13	1:87:A:LYS:HB3	8	0.54
(1,2324)	1:89:A:VAL:HG13	1:87:A:LYS:HB3	18	0.54
(1,2216)	1:104:A:LYS:HD3	1:104:A:LYS:HG3	3	0.54
(1,2216)	1:104:A:LYS:HD3	1:104:A:LYS:HG3	4	0.54
(1,2216)	1:104:A:LYS:HD3	1:104:A:LYS:HG3	5	0.54
(1,2216)	1:104:A:LYS:HD3	1:104:A:LYS:HG3	7	0.54
(1,2216)	1:104:A:LYS:HD3	1:104:A:LYS:HG3	8	0.54
(1,2216)	1:104:A:LYS:HD3	1:104:A:LYS:HG3	11	0.54
(1,2216)	1:104:A:LYS:HD3	1:104:A:LYS:HG3	13	0.54
(1,2216)	1:104:A:LYS:HD3	1:104:A:LYS:HG3	14	0.54
(1,2216)	1:104:A:LYS:HD3	1:104:A:LYS:HG3	16	0.54
(1,2216)	1:104:A:LYS:HD3	1:104:A:LYS:HG3	18	0.54
(1,2189)	1:171:A:ILE:HG21	1:123:A:LYS:HD3	9	0.54
(1,2167)	1:67:A:LYS:HD3	1:67:A:LYS:H	19	0.54
(1,2153)	1:64:A:GLU:HB2	1:44:A:TYR:HE2	3	0.54
(1,2144)	1:36:A:LYS:HD2	1:36:A:LYS:HB3	6	0.54
(1,2144)	1:36:A:LYS:HD2	1:36:A:LYS:HB3	13	0.54
(1,2144)	1:36:A:LYS:HD2	1:36:A:LYS:HB3	19	0.54
(1,2124)	1:137:A:LEU:HD12	1:137:A:LEU:HB3	20	0.54
(1,2072)	1:98:A:LEU:HD12	1:93:A:LEU:HD23	16	0.54
(1,2030)	1:124:A:LYS:HG3	1:123:A:LYS:HB3	14	0.54
(1,1958)	1:66:A:LEU:HD13	1:44:A:TYR:HB2	1	0.54
(1,1950)	1:94:A:LEU:HD22	1:71:A:LEU:HA	8	0.54
(1,1949)	1:94:A:LEU:HD23	1:69:A:LYS:HA	1	0.54
(1,1926)	1:19:A:LEU:HD13	1:18:A:SER:HB2	14	0.54
(1,1904)	1:86:A:LEU:HD11	1:153:A:HIS:HD2	10	0.54
(1,1877)	1:66:A:LEU:HD21	1:44:A:TYR:HA	10	0.54
(1,1867)	1:19:A:LEU:HD21	1:19:A:LEU:HA	18	0.54
(1,1866)	1:95:A:THR:HG21	1:72:A:VAL:HA	2	0.54
(1,1866)	1:95:A:THR:HG23	1:72:A:VAL:HA	11	0.54
(1,1866)	1:95:A:THR:HG23	1:72:A:VAL:HA	16	0.54
(1,1819)	1:79:A:LEU:HD22	1:150:A:VAL:HG11	9	0.54
(1,1743)	1:150:A:VAL:HG22	1:79:A:LEU:HD22	12	0.54
(1,1677)	1:109:A:ILE:HG22	1:48:A:ASP:HA	4	0.54
(1,1677)	1:109:A:ILE:HG21	1:48:A:ASP:HA	6	0.54
(1,1677)	1:109:A:ILE:HG23	1:48:A:ASP:HA	9	0.54
(1,1677)	1:109:A:ILE:HG22	1:48:A:ASP:HA	14	0.54
(1,1666)	1:97:A:ILE:HG22	1:119:A:VAL:HG21	16	0.54
(1,1560)	1:97:A:ILE:HD12	1:69:A:LYS:HE3	15	0.54
(1,1482)	1:60:A:MET:H	1:59:A:GLN:HB3	3	0.54
(1,1482)	1:60:A:MET:H	1:59:A:GLN:HB3	6	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1453)	1:35:A:GLU:H	1:34:A:TYR:HB2	15	0.54
(1,1367)	1:135:A:LYS:H	1:135:A:LYS:HG2	17	0.54
(1,1342)	1:100:A:PHE:H	1:98:A:LEU:HD21	5	0.54
(1,1284)	1:44:A:TYR:H	1:44:A:TYR:HD1	16	0.54
(1,1275)	1:163:A:TRP:HE1	1:154:A:ALA:HB2	13	0.54
(1,1258)	1:75:A:GLY:H	1:74:A:ASP:HB3	4	0.54
(1,1208)	1:25:A:GLY:H	1:24:A:ILE:HD13	4	0.54
(1,1208)	1:25:A:GLY:H	1:24:A:ILE:HD13	10	0.54
(1,1208)	1:25:A:GLY:H	1:24:A:ILE:HD11	12	0.54
(1,1208)	1:25:A:GLY:H	1:24:A:ILE:HD13	13	0.54
(1,1184)	1:109:A:ILE:H	1:109:A:ILE:HD13	10	0.54
(1,1184)	1:109:A:ILE:H	1:109:A:ILE:HD11	20	0.54
(1,1149)	1:175:A:ASN:H	1:175:A:ASN:HB3	17	0.54
(1,1116)	1:65:A:ASP:H	1:65:A:ASP:HB3	18	0.54
(1,1012)	1:47:A:THR:H	1:47:A:THR:HG22	14	0.54
(1,962)	1:77:A:VAL:H	1:76:A:SER:HB3	7	0.54
(1,913)	1:50:A:LYS:H	1:50:A:LYS:HG2	4	0.54
(1,896)	1:176:A:ARG:H	1:176:A:ARG:HG2	7	0.54
(1,852)	1:159:A:GLU:H	1:154:A:ALA:HB1	1	0.54
(1,813)	1:125:A:LEU:H	1:125:A:LEU:HB2	6	0.54
(1,568)	1:88:A:GLU:H	1:78:A:PHE:HD2	5	0.54
(1,516)	1:153:A:HIS:HD2	1:133:A:GLU:HB2	4	0.54
(1,516)	1:153:A:HIS:HD2	1:133:A:GLU:HB3	9	0.54
(1,489)	1:70:A:LYS:HB3	1:36:A:LYS:HE2	7	0.54
(1,489)	1:70:A:LYS:HB3	1:36:A:LYS:HE2	17	0.54
(1,486)	1:21:A:LYS:HD3	1:30:A:LYS:HA	6	0.54
(1,485)	1:64:A:GLU:HG2	1:67:A:LYS:HD3	13	0.54
(1,482)	1:19:A:LEU:HG	1:19:A:LEU:HD23	4	0.54
(1,482)	1:19:A:LEU:HG	1:19:A:LEU:HD21	5	0.54
(1,482)	1:19:A:LEU:HG	1:19:A:LEU:HD22	7	0.54
(1,455)	1:151:A:GLU:HB2	1:116:A:LYS:HD2	4	0.54
(1,455)	1:151:A:GLU:HB2	1:116:A:LYS:HD3	11	0.54
(1,446)	1:22:A:ASP:HA	1:21:A:LYS:HG3	11	0.54
(1,432)	1:67:A:LYS:HE3	1:44:A:TYR:HD1	2	0.54
(1,416)	1:18:A:SER:HA	1:24:A:ILE:HD11	15	0.54
(1,397)	1:109:A:ILE:HA	1:110:A:PHE:HE2	15	0.54
(1,391)	1:64:A:GLU:HG2	1:44:A:TYR:HE1	12	0.54
(1,384)	1:169:A:ASP:HA	1:165:A:GLN:HG3	19	0.54
(1,373)	1:30:A:LYS:HB2	1:33:A:SER:HB2	5	0.54
(1,373)	1:30:A:LYS:HB2	1:33:A:SER:HB2	19	0.54
(1,360)	1:52:A:ILE:HA	1:60:A:MET:HE3	13	0.54
(1,346)	1:159:A:GLU:HB3	1:162:A:SER:HB2	6	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,346)	1:159:A:GLU:HB3	1:162:A:SER:HB3	11	0.54
(1,320)	1:138:A:PHE:HA	1:139:A:LEU:HD21	9	0.54
(1,320)	1:138:A:PHE:HA	1:139:A:LEU:HD23	16	0.54
(1,272)	1:87:A:LYS:HE3	1:111:A:ALA:HB2	2	0.54
(1,269)	1:5:A:ASP:HB2	1:8:A:VAL:HG22	6	0.54
(1,230)	1:67:A:LYS:HB3	1:67:A:LYS:HE2	1	0.54
(1,199)	1:56:A:LYS:HD3	1:56:A:LYS:HB3	7	0.54
(1,171)	1:107:A:LYS:HG3	1:47:A:THR:HA	18	0.54
(1,160)	1:71:A:LEU:HD11	1:74:A:ASP:HA	10	0.54
(1,159)	1:71:A:LEU:HD23	1:94:A:LEU:HA	8	0.54
(1,134)	1:77:A:VAL:HG13	1:163:A:TRP:HZ2	16	0.54
(1,125)	1:62:A:ALA:HB3	1:64:A:GLU:HG3	15	0.54
(1,124)	1:45:A:THR:HG23	1:46:A:LYS:HB3	15	0.54
(1,100)	1:171:A:ILE:HD11	1:125:A:LEU:HB3	15	0.54
(1,44)	1:117:A:SER:H	1:116:A:LYS:HD3	9	0.54
(1,38)	1:138:A:PHE:H	1:164:A:ILE:HD13	13	0.54
(2,23)	1:163:A:TRP:H	1:159:A:GLU:O	19	0.53
(2,4)	1:79:A:LEU:H	1:87:A:LYS:O	3	0.53
(2,4)	1:79:A:LEU:H	1:87:A:LYS:O	14	0.53
(1,3507)	1:43:A:ILE:HD13	1:108:A:TYR:HE2	17	0.53
(1,3380)	1:40:A:LEU:HG	1:43:A:ILE:HD12	1	0.53
(1,3380)	1:40:A:LEU:HG	1:43:A:ILE:HD11	5	0.53
(1,3380)	1:40:A:LEU:HG	1:43:A:ILE:HD12	12	0.53
(1,3352)	1:101:A:LEU:HD11	1:100:A:PHE:HA	8	0.53
(1,3312)	1:109:A:ILE:HA	1:109:A:ILE:HD11	19	0.53
(1,3307)	1:53:A:MET:HE1	1:61:A:PHE:HE1	5	0.53
(1,3307)	1:53:A:MET:HE3	1:61:A:PHE:HE1	12	0.53
(1,3294)	1:65:A:ASP:HA	1:61:A:PHE:HE2	19	0.53
(1,3290)	1:39:A:ARG:HD3	1:38:A:VAL:HG13	16	0.53
(1,3281)	1:101:A:LEU:HD12	1:109:A:ILE:H	2	0.53
(1,3281)	1:101:A:LEU:HD11	1:109:A:ILE:H	4	0.53
(1,3281)	1:101:A:LEU:HD13	1:109:A:ILE:H	17	0.53
(1,3271)	1:169:A:ASP:H	1:171:A:ILE:HD13	7	0.53
(1,3271)	1:169:A:ASP:H	1:171:A:ILE:HD12	14	0.53
(1,3266)	1:52:A:ILE:HD11	1:60:A:MET:H	12	0.53
(1,3266)	1:52:A:ILE:HD12	1:60:A:MET:H	15	0.53
(1,3215)	1:15:A:GLN:HB2	1:2:A:MET:HG3	15	0.53
(1,3197)	1:111:A:ALA:HB1	1:118:A:THR:HA	16	0.53
(1,3158)	1:179:A:ASP:HA	1:179:A:ASP:HB2	2	0.53
(1,3158)	1:179:A:ASP:HA	1:179:A:ASP:HB2	16	0.53
(1,3142)	1:89:A:VAL:HG11	1:87:A:LYS:HE3	19	0.53
(1,3100)	1:128:A:ARG:HB3	1:128:A:ARG:HD2	15	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3100)	1:128:A:ARG:HB3	1:128:A:ARG:HD2	17	0.53
(1,3021)	1:140:A:ILE:HD12	1:138:A:PHE:HE2	4	0.53
(1,2994)	1:11:A:GLU:HG2	1:11:A:GLU:HA	18	0.53
(1,2951)	1:144:A:MET:HE2	1:144:A:MET:HA	17	0.53
(1,2826)	1:147:A:PRO:HA	1:140:A:ILE:HG22	17	0.53
(1,2793)	1:120:A:ILE:HD11	1:118:A:THR:HA	6	0.53
(1,2793)	1:120:A:ILE:HD13	1:118:A:THR:HA	19	0.53
(1,2758)	1:44:A:TYR:HA	1:44:A:TYR:HE2	20	0.53
(1,2753)	1:155:A:SER:HA	1:78:A:PHE:HD2	7	0.53
(1,2720)	1:41:A:ASN:HA	1:44:A:TYR:HE1	15	0.53
(1,2712)	1:46:A:LYS:HA	1:107:A:LYS:HB3	6	0.53
(1,2696)	1:4:A:LYS:HA	1:4:A:LYS:HD2	2	0.53
(1,2657)	1:108:A:TYR:HA	1:109:A:ILE:HD11	15	0.53
(1,2645)	1:142:A:MET:HA	1:147:A:PRO:HG2	20	0.53
(1,2496)	1:140:A:ILE:HD11	1:128:A:ARG:HD3	2	0.53
(1,2496)	1:140:A:ILE:HD13	1:128:A:ARG:HD3	9	0.53
(1,2465)	1:50:A:LYS:HG2	1:50:A:LYS:HE3	4	0.53
(1,2465)	1:50:A:LYS:HG2	1:50:A:LYS:HE3	8	0.53
(1,2465)	1:50:A:LYS:HG2	1:50:A:LYS:HE3	13	0.53
(1,2440)	1:28:A:ASP:HB3	1:25:A:GLY:HA3	14	0.53
(1,2391)	1:151:A:GLU:HG3	1:80:A:LYS:HB3	18	0.53
(1,2385)	1:159:A:GLU:HG3	1:154:A:ALA:HB1	2	0.53
(1,2385)	1:159:A:GLU:HG3	1:154:A:ALA:HB2	17	0.53
(1,2324)	1:89:A:VAL:HG12	1:87:A:LYS:HB3	17	0.53
(1,2266)	1:149:A:MET:HB3	1:138:A:PHE:HA	8	0.53
(1,2266)	1:149:A:MET:HB3	1:138:A:PHE:HA	13	0.53
(1,2189)	1:171:A:ILE:HG23	1:123:A:LYS:HD3	3	0.53
(1,2091)	1:176:A:ARG:HG3	1:176:A:ARG:HD3	7	0.53
(1,2077)	1:182:A:ILE:HG13	1:182:A:ILE:HG23	20	0.53
(1,2075)	1:98:A:LEU:HD11	1:100:A:PHE:HZ	11	0.53
(1,2075)	1:98:A:LEU:HD12	1:100:A:PHE:HZ	18	0.53
(1,2022)	1:93:A:LEU:HD11	1:72:A:VAL:H	2	0.53
(1,1995)	1:174:A:LEU:HD12	1:12:A:ASP:HB2	1	0.53
(1,1995)	1:174:A:LEU:HD11	1:12:A:ASP:HB2	4	0.53
(1,1995)	1:174:A:LEU:HD11	1:12:A:ASP:HB2	16	0.53
(1,1981)	1:71:A:LEU:HD23	1:40:A:LEU:HB3	13	0.53
(1,1977)	1:101:A:LEU:HD12	1:110:A:PHE:HA	12	0.53
(1,1977)	1:101:A:LEU:HD11	1:110:A:PHE:HA	19	0.53
(1,1958)	1:66:A:LEU:HD13	1:44:A:TYR:HB2	16	0.53
(1,1950)	1:94:A:LEU:HD23	1:71:A:LEU:HA	7	0.53
(1,1877)	1:66:A:LEU:HD22	1:44:A:TYR:HA	20	0.53
(1,1866)	1:95:A:THR:HG23	1:72:A:VAL:HA	3	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1864)	1:95:A:THR:HG22	1:72:A:VAL:HB	19	0.53
(1,1843)	1:40:A:LEU:HD23	1:44:A:TYR:HA	10	0.53
(1,1843)	1:40:A:LEU:HD23	1:44:A:TYR:HA	19	0.53
(1,1799)	1:127:A:VAL:HG12	1:137:A:LEU:HD22	13	0.53
(1,1698)	1:91:A:ALA:HB3	1:98:A:LEU:HD21	18	0.53
(1,1691)	1:111:A:ALA:HB1	1:102:A:GLN:HG2	4	0.53
(1,1677)	1:109:A:ILE:HG21	1:48:A:ASP:HA	18	0.53
(1,1575)	1:164:A:ILE:HD12	1:161:A:ASN:HB3	8	0.53
(1,1575)	1:164:A:ILE:HD13	1:161:A:ASN:HB3	12	0.53
(1,1566)	1:97:A:ILE:HD13	1:121:A:SER:HA	2	0.53
(1,1566)	1:97:A:ILE:HD11	1:121:A:SER:HA	13	0.53
(1,1564)	1:97:A:ILE:HD12	1:97:A:ILE:H	1	0.53
(1,1543)	1:120:A:ILE:HD12	1:98:A:LEU:HD21	17	0.53
(1,1504)	1:163:A:TRP:HE1	1:75:A:GLY:HA2	12	0.53
(1,1482)	1:60:A:MET:H	1:59:A:GLN:HB3	9	0.53
(1,1470)	1:37:A:LYS:H	1:38:A:VAL:HG12	10	0.53
(1,1467)	1:10:A:GLN:H	1:10:A:GLN:HB2	14	0.53
(1,1363)	1:90:A:GLN:HE22	1:90:A:GLN:HG3	5	0.53
(1,1363)	1:90:A:GLN:HE22	1:90:A:GLN:HG3	7	0.53
(1,1149)	1:175:A:ASN:H	1:175:A:ASN:HB3	15	0.53
(1,1149)	1:175:A:ASN:H	1:175:A:ASN:HB3	20	0.53
(1,1116)	1:65:A:ASP:H	1:65:A:ASP:HB3	5	0.53
(1,1116)	1:65:A:ASP:H	1:65:A:ASP:HB3	15	0.53
(1,1061)	1:172:A:ASN:H	1:171:A:ILE:HD11	17	0.53
(1,1012)	1:47:A:THR:H	1:47:A:THR:HG22	16	0.53
(1,998)	1:119:A:VAL:H	1:117:A:SER:HB3	8	0.53
(1,998)	1:119:A:VAL:H	1:117:A:SER:HB3	12	0.53
(1,920)	1:31:A:VAL:H	1:32:A:ALA:HB3	16	0.53
(1,896)	1:176:A:ARG:H	1:176:A:ARG:HG2	5	0.53
(1,884)	1:129:A:GLU:H	1:128:A:ARG:HB2	9	0.53
(1,884)	1:129:A:GLU:H	1:128:A:ARG:HB2	12	0.53
(1,823)	1:86:A:LEU:H	1:85:A:ARG:HB2	16	0.53
(1,813)	1:125:A:LEU:H	1:125:A:LEU:HB2	2	0.53
(1,813)	1:125:A:LEU:H	1:125:A:LEU:HB2	3	0.53
(1,813)	1:125:A:LEU:H	1:125:A:LEU:HB2	9	0.53
(1,813)	1:125:A:LEU:H	1:125:A:LEU:HB2	10	0.53
(1,813)	1:125:A:LEU:H	1:125:A:LEU:HB2	13	0.53
(1,813)	1:125:A:LEU:H	1:125:A:LEU:HB2	17	0.53
(1,773)	1:42:A:GLU:H	1:42:A:GLU:HG3	1	0.53
(1,712)	1:74:A:ASP:H	1:71:A:LEU:HD13	18	0.53
(1,558)	1:93:A:LEU:H	1:91:A:ALA:HB2	6	0.53
(1,485)	1:64:A:GLU:HG2	1:67:A:LYS:HD3	19	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,484)	1:67:A:LYS:HD2	1:64:A:GLU:HG3	13	0.53
(1,465)	1:38:A:VAL:HG21	1:37:A:LYS:HE2	1	0.53
(1,432)	1:67:A:LYS:HE3	1:44:A:TYR:HD1	10	0.53
(1,416)	1:18:A:SER:HA	1:24:A:ILE:HD13	1	0.53
(1,404)	1:36:A:LYS:HA	1:35:A:GLU:HB3	14	0.53
(1,384)	1:169:A:ASP:HA	1:165:A:GLN:HG3	2	0.53
(1,384)	1:169:A:ASP:HA	1:165:A:GLN:HG3	16	0.53
(1,384)	1:169:A:ASP:HA	1:165:A:GLN:HG3	18	0.53
(1,373)	1:30:A:LYS:HB2	1:33:A:SER:HB2	16	0.53
(1,339)	1:157:A:LYS:HA	1:134:A:GLU:HB2	18	0.53
(1,293)	1:67:A:LYS:HE3	1:64:A:GLU:HA	4	0.53
(1,253)	1:115:A:GLN:HG2	1:113:A:LEU:HB2	7	0.53
(1,199)	1:56:A:LYS:HD3	1:56:A:LYS:HB3	1	0.53
(1,168)	1:107:A:LYS:HG2	1:106:A:GLN:HG3	6	0.53
(1,168)	1:107:A:LYS:HG2	1:106:A:GLN:HG3	9	0.53
(1,133)	1:86:A:LEU:HD12	1:153:A:HIS:HB2	13	0.53
(1,124)	1:45:A:THR:HG23	1:46:A:LYS:HB3	4	0.53
(1,124)	1:45:A:THR:HG23	1:46:A:LYS:HB3	8	0.53
(1,110)	1:119:A:VAL:HG21	1:55:A:MET:HG2	12	0.53
(1,100)	1:171:A:ILE:HD11	1:125:A:LEU:HB3	10	0.53
(1,87)	1:9:A:GLU:H	1:8:A:VAL:HG22	4	0.53
(1,58)	1:13:A:LEU:H	1:19:A:LEU:HD12	6	0.53
(1,42)	1:76:A:SER:H	1:77:A:VAL:HG11	4	0.53
(1,42)	1:76:A:SER:H	1:77:A:VAL:HG12	14	0.53
(1,42)	1:76:A:SER:H	1:77:A:VAL:HG13	16	0.53
(1,20)	1:11:A:GLU:H	1:13:A:LEU:H	4	0.53
(1,12)	1:140:A:ILE:H	1:127:A:VAL:HB	13	0.53
(1,12)	1:140:A:ILE:H	1:127:A:VAL:HB	19	0.53
(2,26)	1:169:A:ASP:H	1:166:A:ILE:O	11	0.52
(2,4)	1:79:A:LEU:H	1:87:A:LYS:O	2	0.52
(1,3451)	1:66:A:LEU:HB3	1:44:A:TYR:HD2	5	0.52
(1,3448)	1:34:A:TYR:HD2	1:38:A:VAL:HG21	2	0.52
(1,3448)	1:34:A:TYR:HD1	1:38:A:VAL:HG21	15	0.52
(1,3401)	1:126:A:ILE:HG21	1:143:A:GLY:H	8	0.52
(1,3401)	1:126:A:ILE:HG23	1:143:A:GLY:H	13	0.52
(1,3399)	1:125:A:LEU:HD21	1:170:A:THR:HB	16	0.52
(1,3397)	1:45:A:THR:HG22	1:42:A:GLU:HG3	2	0.52
(1,3396)	1:92:A:VAL:HA	1:73:A:ARG:HG3	18	0.52
(1,3380)	1:40:A:LEU:HG	1:43:A:ILE:HD12	4	0.52
(1,3313)	1:109:A:ILE:HD13	1:104:A:LYS:HA	8	0.52
(1,3313)	1:109:A:ILE:HD13	1:104:A:LYS:HA	10	0.52
(1,3307)	1:53:A:MET:HE2	1:61:A:PHE:HE1	17	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3294)	1:65:A:ASP:HA	1:61:A:PHE:HE2	10	0.52
(1,3281)	1:101:A:LEU:HD12	1:109:A:ILE:H	5	0.52
(1,3281)	1:101:A:LEU:HD13	1:109:A:ILE:H	8	0.52
(1,3281)	1:101:A:LEU:HD12	1:109:A:ILE:H	19	0.52
(1,3271)	1:169:A:ASP:H	1:171:A:ILE:HD13	17	0.52
(1,3266)	1:52:A:ILE:HD11	1:60:A:MET:H	7	0.52
(1,3266)	1:52:A:ILE:HD13	1:60:A:MET:H	13	0.52
(1,3266)	1:52:A:ILE:HD13	1:60:A:MET:H	14	0.52
(1,3266)	1:52:A:ILE:HD12	1:60:A:MET:H	16	0.52
(1,3266)	1:52:A:ILE:HD13	1:60:A:MET:H	19	0.52
(1,3260)	1:171:A:ILE:HA	1:125:A:LEU:HD13	19	0.52
(1,3215)	1:15:A:GLN:HB2	1:2:A:MET:HG3	2	0.52
(1,3198)	1:101:A:LEU:HD22	1:110:A:PHE:HZ	5	0.52
(1,3197)	1:111:A:ALA:HB1	1:118:A:THR:HA	6	0.52
(1,3197)	1:111:A:ALA:HB1	1:118:A:THR:HA	17	0.52
(1,3197)	1:111:A:ALA:HB2	1:118:A:THR:HA	20	0.52
(1,3185)	1:142:A:MET:HA	1:147:A:PRO:HB2	17	0.52
(1,3169)	1:101:A:LEU:HD23	1:108:A:TYR:HA	4	0.52
(1,3116)	1:87:A:LYS:HE3	1:113:A:LEU:HD21	14	0.52
(1,3116)	1:87:A:LYS:HE3	1:113:A:LEU:HD21	17	0.52
(1,3100)	1:128:A:ARG:HB3	1:128:A:ARG:HD2	1	0.52
(1,3100)	1:128:A:ARG:HB3	1:128:A:ARG:HD2	14	0.52
(1,3078)	1:134:A:GLU:HG3	1:134:A:GLU:HA	2	0.52
(1,3067)	1:130:A:VAL:HG11	1:130:A:VAL:HA	19	0.52
(1,3051)	1:55:A:MET:HE2	1:59:A:GLN:HE22	1	0.52
(1,3051)	1:55:A:MET:HE3	1:59:A:GLN:HE22	18	0.52
(1,3021)	1:140:A:ILE:HD11	1:138:A:PHE:HE2	16	0.52
(1,2858)	1:176:A:ARG:HD3	1:173:A:THR:HA	10	0.52
(1,2841)	1:16:A:SER:HB2	1:3:A:THR:HB	6	0.52
(1,2836)	1:141:A:SER:HB2	1:147:A:PRO:HB2	15	0.52
(1,2783)	1:117:A:SER:HA	1:55:A:MET:HB3	15	0.52
(1,2751)	1:155:A:SER:HA	1:78:A:PHE:HE2	13	0.52
(1,2739)	1:123:A:LYS:HD3	1:123:A:LYS:HA	20	0.52
(1,2715)	1:4:A:LYS:HA	1:8:A:VAL:HG11	16	0.52
(1,2712)	1:46:A:LYS:HA	1:107:A:LYS:HB3	20	0.52
(1,2653)	1:80:A:LYS:HA	1:80:A:LYS:HD3	16	0.52
(1,2567)	1:146:A:ASP:HA	1:147:A:PRO:HG2	1	0.52
(1,2496)	1:140:A:ILE:HD12	1:128:A:ARG:HD3	10	0.52
(1,2492)	1:176:A:ARG:HB3	1:176:A:ARG:HD3	12	0.52
(1,2492)	1:176:A:ARG:HB3	1:176:A:ARG:HD3	19	0.52
(1,2473)	1:80:A:LYS:HE2	1:86:A:LEU:HD21	5	0.52
(1,2465)	1:50:A:LYS:HG2	1:50:A:LYS:HE3	7	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2394)	1:159:A:GLU:HG2	1:155:A:SER:HB2	10	0.52
(1,2384)	1:35:A:GLU:HG3	1:38:A:VAL:HG21	2	0.52
(1,2345)	1:115:A:GLN:HB2	1:115:A:GLN:HG2	1	0.52
(1,2345)	1:115:A:GLN:HB2	1:115:A:GLN:HG2	8	0.52
(1,2345)	1:115:A:GLN:HB2	1:115:A:GLN:HG2	9	0.52
(1,2345)	1:115:A:GLN:HB2	1:115:A:GLN:HG2	11	0.52
(1,2324)	1:89:A:VAL:HG11	1:87:A:LYS:HB3	4	0.52
(1,2216)	1:104:A:LYS:HD3	1:104:A:LYS:HG3	6	0.52
(1,2215)	1:109:A:ILE:HD13	1:104:A:LYS:HD3	19	0.52
(1,2159)	1:107:A:LYS:HD3	1:107:A:LYS:HB2	5	0.52
(1,2153)	1:64:A:GLU:HB2	1:44:A:TYR:HE2	18	0.52
(1,2144)	1:36:A:LYS:HD2	1:36:A:LYS:HB3	10	0.52
(1,2144)	1:36:A:LYS:HD2	1:36:A:LYS:HB3	12	0.52
(1,2141)	1:56:A:LYS:HD3	1:144:A:MET:HE1	11	0.52
(1,2124)	1:137:A:LEU:HD13	1:137:A:LEU:HB3	9	0.52
(1,2124)	1:137:A:LEU:HD11	1:137:A:LEU:HB3	14	0.52
(1,2075)	1:98:A:LEU:HD13	1:100:A:PHE:HZ	14	0.52
(1,2022)	1:93:A:LEU:HD13	1:72:A:VAL:H	17	0.52
(1,2019)	1:170:A:THR:HG23	1:93:A:LEU:HD12	11	0.52
(1,1981)	1:71:A:LEU:HD21	1:40:A:LEU:HB3	5	0.52
(1,1981)	1:71:A:LEU:HD23	1:40:A:LEU:HB3	14	0.52
(1,1977)	1:101:A:LEU:HD12	1:110:A:PHE:HA	3	0.52
(1,1950)	1:94:A:LEU:HD22	1:71:A:LEU:HA	3	0.52
(1,1950)	1:94:A:LEU:HD21	1:71:A:LEU:HA	20	0.52
(1,1904)	1:86:A:LEU:HD13	1:153:A:HIS:HD2	11	0.52
(1,1877)	1:66:A:LEU:HD21	1:44:A:TYR:HA	2	0.52
(1,1877)	1:66:A:LEU:HD22	1:44:A:TYR:HA	6	0.52
(1,1877)	1:66:A:LEU:HD21	1:44:A:TYR:HA	9	0.52
(1,1866)	1:95:A:THR:HG22	1:72:A:VAL:HA	7	0.52
(1,1864)	1:95:A:THR:HG23	1:72:A:VAL:HB	1	0.52
(1,1864)	1:95:A:THR:HG23	1:72:A:VAL:HB	5	0.52
(1,1864)	1:95:A:THR:HG22	1:72:A:VAL:HB	17	0.52
(1,1793)	1:113:A:LEU:HD22	1:79:A:LEU:HD11	12	0.52
(1,1691)	1:111:A:ALA:HB1	1:102:A:GLN:HG2	20	0.52
(1,1677)	1:109:A:ILE:HG21	1:48:A:ASP:HA	12	0.52
(1,1677)	1:109:A:ILE:HG22	1:48:A:ASP:HA	15	0.52
(1,1677)	1:109:A:ILE:HG22	1:48:A:ASP:HA	20	0.52
(1,1666)	1:97:A:ILE:HG22	1:119:A:VAL:HG21	10	0.52
(1,1566)	1:97:A:ILE:HD13	1:121:A:SER:HA	12	0.52
(1,1564)	1:97:A:ILE:HD12	1:97:A:ILE:H	20	0.52
(1,1482)	1:60:A:MET:H	1:59:A:GLN:HB3	14	0.52
(1,1422)	1:134:A:GLU:H	1:135:A:LYS:HD2	4	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1311)	1:63:A:LYS:H	1:63:A:LYS:HD2	14	0.52
(1,1307)	1:63:A:LYS:H	1:47:A:THR:HG23	13	0.52
(1,1301)	1:79:A:LEU:H	1:78:A:PHE:HD2	5	0.52
(1,1258)	1:75:A:GLY:H	1:74:A:ASP:HB3	19	0.52
(1,1184)	1:109:A:ILE:H	1:109:A:ILE:HD12	3	0.52
(1,1184)	1:109:A:ILE:H	1:109:A:ILE:HD12	9	0.52
(1,1184)	1:109:A:ILE:H	1:109:A:ILE:HD11	11	0.52
(1,1149)	1:175:A:ASN:H	1:175:A:ASN:HB3	10	0.52
(1,1149)	1:175:A:ASN:H	1:175:A:ASN:HB3	19	0.52
(1,1061)	1:172:A:ASN:H	1:171:A:ILE:HD11	5	0.52
(1,1012)	1:47:A:THR:H	1:47:A:THR:HG23	3	0.52
(1,920)	1:31:A:VAL:H	1:32:A:ALA:HB1	10	0.52
(1,913)	1:50:A:LYS:H	1:50:A:LYS:HG2	2	0.52
(1,813)	1:125:A:LEU:H	1:125:A:LEU:HB2	1	0.52
(1,813)	1:125:A:LEU:H	1:125:A:LEU:HB2	12	0.52
(1,813)	1:125:A:LEU:H	1:125:A:LEU:HB2	19	0.52
(1,813)	1:125:A:LEU:H	1:125:A:LEU:HB2	20	0.52
(1,558)	1:93:A:LEU:H	1:91:A:ALA:HB1	3	0.52
(1,558)	1:93:A:LEU:H	1:91:A:ALA:HB1	13	0.52
(1,482)	1:19:A:LEU:HG	1:19:A:LEU:HD21	1	0.52
(1,482)	1:19:A:LEU:HG	1:19:A:LEU:HD23	13	0.52
(1,465)	1:38:A:VAL:HG21	1:37:A:LYS:HE2	4	0.52
(1,446)	1:22:A:ASP:HA	1:21:A:LYS:HG3	7	0.52
(1,432)	1:67:A:LYS:HE3	1:44:A:TYR:HD1	14	0.52
(1,391)	1:64:A:GLU:HG3	1:44:A:TYR:HE2	9	0.52
(1,387)	1:70:A:LYS:HB3	1:70:A:LYS:HD2	12	0.52
(1,384)	1:169:A:ASP:HA	1:165:A:GLN:HG3	5	0.52
(1,384)	1:169:A:ASP:HA	1:165:A:GLN:HG3	20	0.52
(1,375)	1:49:A:SER:HB2	1:63:A:LYS:HE3	6	0.52
(1,373)	1:30:A:LYS:HB2	1:33:A:SER:HB2	17	0.52
(1,348)	1:162:A:SER:HB2	1:161:A:ASN:HB3	19	0.52
(1,346)	1:159:A:GLU:HB3	1:162:A:SER:HB2	20	0.52
(1,339)	1:157:A:LYS:HA	1:134:A:GLU:HB2	15	0.52
(1,320)	1:138:A:PHE:HA	1:139:A:LEU:HD23	7	0.52
(1,320)	1:138:A:PHE:HA	1:139:A:LEU:HD22	17	0.52
(1,317)	1:14:A:ALA:HA	1:8:A:VAL:HG11	11	0.52
(1,317)	1:14:A:ALA:HA	1:8:A:VAL:HG13	20	0.52
(1,296)	1:19:A:LEU:HB2	1:11:A:GLU:HA	9	0.52
(1,293)	1:67:A:LYS:HE3	1:64:A:GLU:HA	11	0.52
(1,293)	1:67:A:LYS:HE3	1:64:A:GLU:HA	18	0.52
(1,293)	1:67:A:LYS:HE3	1:64:A:GLU:HA	20	0.52
(1,272)	1:87:A:LYS:HE3	1:111:A:ALA:HB3	6	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,219)	1:42:A:GLU:HB3	1:39:A:ARG:HB2	6	0.52
(1,199)	1:56:A:LYS:HD3	1:56:A:LYS:HB3	20	0.52
(1,175)	1:67:A:LYS:HG3	1:37:A:LYS:HG2	11	0.52
(1,171)	1:107:A:LYS:HG3	1:47:A:THR:HA	4	0.52
(1,170)	1:107:A:LYS:HG3	1:46:A:LYS:HA	5	0.52
(1,151)	1:50:A:LYS:HG2	1:49:A:SER:HB3	2	0.52
(1,134)	1:77:A:VAL:HG23	1:163:A:TRP:HZ2	14	0.52
(1,100)	1:171:A:ILE:HD12	1:125:A:LEU:HB3	1	0.52
(1,100)	1:171:A:ILE:HD13	1:125:A:LEU:HB3	12	0.52
(1,65)	1:15:A:GLN:H	1:15:A:GLN:HG2	12	0.52
(1,44)	1:117:A:SER:H	1:116:A:LYS:HD3	5	0.52
(1,44)	1:117:A:SER:H	1:116:A:LYS:HD3	14	0.52
(1,38)	1:138:A:PHE:H	1:164:A:ILE:HD12	4	0.52
(1,38)	1:138:A:PHE:H	1:164:A:ILE:HD11	6	0.52
(1,33)	1:107:A:LYS:H	1:106:A:GLN:HG3	3	0.52
(1,33)	1:107:A:LYS:H	1:106:A:GLN:HG3	15	0.52
(1,12)	1:140:A:ILE:H	1:127:A:VAL:HB	2	0.52
(1,5)	1:120:A:ILE:H	1:97:A:ILE:HG22	7	0.52
(2,26)	1:169:A:ASP:H	1:166:A:ILE:O	3	0.51
(2,26)	1:169:A:ASP:H	1:166:A:ILE:O	12	0.51
(2,20)	1:154:A:ALA:H	1:135:A:LYS:O	19	0.51
(2,11)	1:97:A:ILE:H	1:94:A:LEU:O	11	0.51
(2,4)	1:79:A:LEU:H	1:87:A:LYS:O	9	0.51
(2,4)	1:79:A:LEU:H	1:87:A:LYS:O	15	0.51
(2,2)	1:72:A:VAL:H	1:93:A:LEU:O	5	0.51
(1,3507)	1:43:A:ILE:HD12	1:108:A:TYR:HE2	6	0.51
(1,3448)	1:34:A:TYR:HD1	1:38:A:VAL:HG23	4	0.51
(1,3448)	1:34:A:TYR:HD1	1:38:A:VAL:HG22	11	0.51
(1,3427)	1:61:A:PHE:HZ	1:61:A:PHE:HD1	9	0.51
(1,3427)	1:61:A:PHE:HZ	1:61:A:PHE:HD1	10	0.51
(1,3427)	1:61:A:PHE:HZ	1:61:A:PHE:HD1	16	0.51
(1,3427)	1:61:A:PHE:HZ	1:61:A:PHE:HD1	20	0.51
(1,3401)	1:126:A:ILE:HG22	1:143:A:GLY:H	4	0.51
(1,3399)	1:125:A:LEU:HD23	1:170:A:THR:HB	5	0.51
(1,3397)	1:45:A:THR:HG21	1:42:A:GLU:HG3	4	0.51
(1,3397)	1:45:A:THR:HG22	1:42:A:GLU:HG3	5	0.51
(1,3397)	1:45:A:THR:HG21	1:42:A:GLU:HG3	6	0.51
(1,3397)	1:45:A:THR:HG21	1:42:A:GLU:HG3	12	0.51
(1,3397)	1:45:A:THR:HG23	1:42:A:GLU:HG3	13	0.51
(1,3369)	1:174:A:LEU:HD21	1:95:A:THR:HG23	19	0.51
(1,3344)	1:149:A:MET:HE3	1:140:A:ILE:HG13	3	0.51
(1,3344)	1:149:A:MET:HE1	1:140:A:ILE:HG13	8	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3344)	1:149:A:MET:HE1	1:140:A:ILE:HG13	13	0.51
(1,3344)	1:149:A:MET:HE3	1:140:A:ILE:HG13	17	0.51
(1,3344)	1:149:A:MET:HE2	1:140:A:ILE:HG13	19	0.51
(1,3344)	1:149:A:MET:HE1	1:140:A:ILE:HG13	20	0.51
(1,3341)	1:55:A:MET:HE1	1:61:A:PHE:HB2	13	0.51
(1,3290)	1:39:A:ARG:HD3	1:38:A:VAL:HG13	8	0.51
(1,3281)	1:101:A:LEU:HD13	1:109:A:ILE:H	7	0.51
(1,3281)	1:101:A:LEU:HD11	1:109:A:ILE:H	10	0.51
(1,3281)	1:101:A:LEU:HD12	1:109:A:ILE:H	11	0.51
(1,3281)	1:101:A:LEU:HD13	1:109:A:ILE:H	13	0.51
(1,3271)	1:169:A:ASP:H	1:171:A:ILE:HD12	9	0.51
(1,3267)	1:167:A:ILE:HD12	1:171:A:ILE:H	9	0.51
(1,3266)	1:52:A:ILE:HD13	1:60:A:MET:H	1	0.51
(1,3266)	1:52:A:ILE:HD12	1:60:A:MET:H	5	0.51
(1,3266)	1:52:A:ILE:HD11	1:60:A:MET:H	11	0.51
(1,3185)	1:142:A:MET:HA	1:147:A:PRO:HB2	9	0.51
(1,3176)	1:159:A:GLU:HG3	1:155:A:SER:HB2	4	0.51
(1,3156)	1:142:A:MET:HE3	1:142:A:MET:HA	8	0.51
(1,3149)	1:47:A:THR:HG21	1:63:A:LYS:HE2	4	0.51
(1,3149)	1:47:A:THR:HG22	1:63:A:LYS:HE2	10	0.51
(1,3103)	1:73:A:ARG:HD2	1:166:A:ILE:HG21	6	0.51
(1,3067)	1:130:A:VAL:HG13	1:130:A:VAL:HA	1	0.51
(1,3067)	1:130:A:VAL:HG12	1:130:A:VAL:HA	10	0.51
(1,3067)	1:130:A:VAL:HG11	1:130:A:VAL:HA	12	0.51
(1,3067)	1:130:A:VAL:HG12	1:130:A:VAL:HA	14	0.51
(1,3051)	1:55:A:MET:HE2	1:59:A:GLN:HE22	10	0.51
(1,3021)	1:140:A:ILE:HD13	1:138:A:PHE:HE2	9	0.51
(1,3021)	1:140:A:ILE:HD12	1:138:A:PHE:HE2	12	0.51
(1,3013)	1:156:A:SER:HA	1:135:A:LYS:HD3	20	0.51
(1,2959)	1:110:A:PHE:HB2	1:119:A:VAL:HG12	9	0.51
(1,2956)	1:41:A:ASN:HB2	1:44:A:TYR:HD1	3	0.51
(1,2942)	1:110:A:PHE:HB2	1:53:A:MET:HE3	13	0.51
(1,2810)	1:123:A:LYS:HA	1:123:A:LYS:HE2	5	0.51
(1,2783)	1:117:A:SER:HA	1:55:A:MET:HB3	13	0.51
(1,2767)	1:36:A:LYS:HG2	1:36:A:LYS:HA	1	0.51
(1,2758)	1:44:A:TYR:HA	1:44:A:TYR:HE2	1	0.51
(1,2758)	1:44:A:TYR:HA	1:44:A:TYR:HE2	19	0.51
(1,2712)	1:46:A:LYS:HA	1:107:A:LYS:HB3	10	0.51
(1,2712)	1:46:A:LYS:HA	1:107:A:LYS:HB3	13	0.51
(1,2712)	1:46:A:LYS:HA	1:107:A:LYS:HB3	14	0.51
(1,2680)	1:50:A:LYS:HG2	1:50:A:LYS:HA	2	0.51
(1,2680)	1:50:A:LYS:HG2	1:50:A:LYS:HA	12	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2657)	1:108:A:TYR:HA	1:109:A:ILE:HD13	6	0.51
(1,2626)	1:153:A:HIS:HA	1:130:A:VAL:HG23	8	0.51
(1,2541)	1:136:A:GLY:HA2	1:130:A:VAL:HB	6	0.51
(1,2493)	1:128:A:ARG:HB2	1:128:A:ARG:HD3	10	0.51
(1,2469)	1:22:A:ASP:HB2	1:24:A:ILE:HG12	1	0.51
(1,2469)	1:22:A:ASP:HB2	1:24:A:ILE:HG12	3	0.51
(1,2465)	1:50:A:LYS:HG2	1:50:A:LYS:HE3	5	0.51
(1,2465)	1:50:A:LYS:HG2	1:50:A:LYS:HE3	20	0.51
(1,2440)	1:28:A:ASP:HB3	1:25:A:GLY:HA3	9	0.51
(1,2432)	1:63:A:LYS:HE3	1:49:A:SER:HA	9	0.51
(1,2432)	1:63:A:LYS:HE3	1:49:A:SER:HA	12	0.51
(1,2345)	1:115:A:GLN:HB2	1:115:A:GLN:HG2	20	0.51
(1,2249)	1:53:A:MET:HG2	1:119:A:VAL:HG22	11	0.51
(1,2159)	1:107:A:LYS:HD3	1:107:A:LYS:HB2	3	0.51
(1,2159)	1:107:A:LYS:HD3	1:107:A:LYS:HB2	6	0.51
(1,2159)	1:107:A:LYS:HD3	1:107:A:LYS:HB2	9	0.51
(1,2159)	1:107:A:LYS:HD3	1:107:A:LYS:HB2	15	0.51
(1,2157)	1:135:A:LYS:HD3	1:135:A:LYS:HB3	4	0.51
(1,2153)	1:64:A:GLU:HB2	1:44:A:TYR:HE2	5	0.51
(1,2135)	1:126:A:ILE:HG13	1:140:A:ILE:HD11	19	0.51
(1,2124)	1:137:A:LEU:HD12	1:137:A:LEU:HB3	13	0.51
(1,2075)	1:98:A:LEU:HD13	1:100:A:PHE:HZ	15	0.51
(1,2030)	1:124:A:LYS:HG3	1:123:A:LYS:HB3	13	0.51
(1,1981)	1:71:A:LEU:HD21	1:40:A:LEU:HB3	15	0.51
(1,1970)	1:101:A:LEU:HD13	1:99:A:VAL:HG22	10	0.51
(1,1957)	1:66:A:LEU:HD13	1:66:A:LEU:HB3	9	0.51
(1,1950)	1:94:A:LEU:HD22	1:71:A:LEU:HA	4	0.51
(1,1950)	1:94:A:LEU:HD21	1:71:A:LEU:HA	11	0.51
(1,1950)	1:94:A:LEU:HD22	1:71:A:LEU:HA	17	0.51
(1,1926)	1:19:A:LEU:HD13	1:18:A:SER:HB2	17	0.51
(1,1877)	1:66:A:LEU:HD22	1:44:A:TYR:HA	11	0.51
(1,1843)	1:40:A:LEU:HD22	1:44:A:TYR:HA	11	0.51
(1,1819)	1:79:A:LEU:HD21	1:150:A:VAL:HG13	15	0.51
(1,1815)	1:173:A:THR:HG21	1:176:A:ARG:HB2	2	0.51
(1,1815)	1:173:A:THR:HG23	1:176:A:ARG:HB2	15	0.51
(1,1794)	1:113:A:LEU:HD22	1:79:A:LEU:HB2	6	0.51
(1,1742)	1:119:A:VAL:HG13	1:110:A:PHE:HE1	2	0.51
(1,1720)	1:154:A:ALA:HB1	1:77:A:VAL:HG13	9	0.51
(1,1698)	1:91:A:ALA:HB1	1:98:A:LEU:HD23	4	0.51
(1,1698)	1:91:A:ALA:HB3	1:98:A:LEU:HD21	19	0.51
(1,1691)	1:111:A:ALA:HB3	1:102:A:GLN:HG2	5	0.51
(1,1690)	1:111:A:ALA:HB3	1:102:A:GLN:HB3	9	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1677)	1:109:A:ILE:HG23	1:48:A:ASP:HA	1	0.51
(1,1677)	1:109:A:ILE:HG21	1:48:A:ASP:HA	2	0.51
(1,1677)	1:109:A:ILE:HG23	1:48:A:ASP:HA	5	0.51
(1,1677)	1:109:A:ILE:HG22	1:48:A:ASP:HA	17	0.51
(1,1636)	1:126:A:ILE:HD11	1:140:A:ILE:HG12	11	0.51
(1,1597)	1:55:A:MET:HE1	1:61:A:PHE:HE2	8	0.51
(1,1583)	1:164:A:ILE:HG22	1:129:A:GLU:HG3	12	0.51
(1,1564)	1:97:A:ILE:HD11	1:97:A:ILE:H	8	0.51
(1,1560)	1:97:A:ILE:HD12	1:69:A:LYS:HE3	2	0.51
(1,1470)	1:37:A:LYS:H	1:38:A:VAL:HG13	20	0.51
(1,1354)	1:15:A:GLN:H	1:15:A:GLN:HB2	19	0.51
(1,1342)	1:100:A:PHE:H	1:98:A:LEU:HD21	1	0.51
(1,1258)	1:75:A:GLY:H	1:74:A:ASP:HB3	1	0.51
(1,1258)	1:75:A:GLY:H	1:74:A:ASP:HB3	8	0.51
(1,1258)	1:75:A:GLY:H	1:74:A:ASP:HB3	11	0.51
(1,1258)	1:75:A:GLY:H	1:74:A:ASP:HB3	17	0.51
(1,1061)	1:172:A:ASN:H	1:171:A:ILE:HD12	12	0.51
(1,1014)	1:161:A:ASN:H	1:161:A:ASN:HD22	13	0.51
(1,1012)	1:47:A:THR:H	1:47:A:THR:HG21	11	0.51
(1,920)	1:31:A:VAL:H	1:32:A:ALA:HB3	8	0.51
(1,884)	1:129:A:GLU:H	1:128:A:ARG:HB2	8	0.51
(1,884)	1:129:A:GLU:H	1:128:A:ARG:HB2	13	0.51
(1,813)	1:125:A:LEU:H	1:125:A:LEU:HB2	7	0.51
(1,813)	1:125:A:LEU:H	1:125:A:LEU:HB2	8	0.51
(1,813)	1:125:A:LEU:H	1:125:A:LEU:HB2	11	0.51
(1,813)	1:125:A:LEU:H	1:125:A:LEU:HB2	14	0.51
(1,813)	1:125:A:LEU:H	1:125:A:LEU:HB2	15	0.51
(1,813)	1:125:A:LEU:H	1:125:A:LEU:HB2	16	0.51
(1,813)	1:125:A:LEU:H	1:125:A:LEU:HB2	18	0.51
(1,773)	1:42:A:GLU:H	1:42:A:GLU:HG3	19	0.51
(1,712)	1:74:A:ASP:H	1:71:A:LEU:HD12	15	0.51
(1,564)	1:104:A:LYS:H	1:103:A:GLU:HG3	14	0.51
(1,558)	1:93:A:LEU:H	1:91:A:ALA:HB1	4	0.51
(1,558)	1:93:A:LEU:H	1:91:A:ALA:HB2	5	0.51
(1,558)	1:93:A:LEU:H	1:91:A:ALA:HB2	10	0.51
(1,558)	1:93:A:LEU:H	1:91:A:ALA:HB3	19	0.51
(1,558)	1:93:A:LEU:H	1:91:A:ALA:HB1	20	0.51
(1,530)	1:151:A:GLU:H	1:150:A:VAL:HG21	12	0.51
(1,516)	1:153:A:HIS:HD2	1:133:A:GLU:HB2	6	0.51
(1,516)	1:153:A:HIS:HD2	1:133:A:GLU:HB2	15	0.51
(1,482)	1:19:A:LEU:HG	1:19:A:LEU:HD23	16	0.51
(1,465)	1:38:A:VAL:HG22	1:37:A:LYS:HE2	17	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,455)	1:151:A:GLU:HB2	1:116:A:LYS:HD3	7	0.51
(1,432)	1:67:A:LYS:HE2	1:44:A:TYR:HD2	3	0.51
(1,431)	1:67:A:LYS:HE3	1:44:A:TYR:HE1	5	0.51
(1,431)	1:67:A:LYS:HE3	1:44:A:TYR:HE2	7	0.51
(1,387)	1:70:A:LYS:HB2	1:70:A:LYS:HD3	19	0.51
(1,384)	1:169:A:ASP:HA	1:165:A:GLN:HG3	1	0.51
(1,384)	1:169:A:ASP:HA	1:165:A:GLN:HG3	8	0.51
(1,384)	1:169:A:ASP:HA	1:165:A:GLN:HG3	14	0.51
(1,375)	1:49:A:SER:HB3	1:63:A:LYS:HE3	1	0.51
(1,373)	1:30:A:LYS:HB2	1:33:A:SER:HB2	7	0.51
(1,353)	1:67:A:LYS:HE3	1:67:A:LYS:HA	7	0.51
(1,353)	1:67:A:LYS:HE3	1:67:A:LYS:HA	13	0.51
(1,347)	1:162:A:SER:HB3	1:166:A:ILE:HD12	6	0.51
(1,331)	1:15:A:GLN:HA	1:15:A:GLN:HG2	14	0.51
(1,315)	1:82:A:ALA:HA	1:116:A:LYS:HG3	17	0.51
(1,293)	1:67:A:LYS:HE3	1:64:A:GLU:HA	8	0.51
(1,276)	1:22:A:ASP:HB2	1:21:A:LYS:HG2	8	0.51
(1,230)	1:67:A:LYS:HB3	1:67:A:LYS:HE2	4	0.51
(1,213)	1:123:A:LYS:HD3	1:181:A:GLY:HA2	17	0.51
(1,208)	1:93:A:LEU:HD22	1:73:A:ARG:HB2	15	0.51
(1,175)	1:67:A:LYS:HG3	1:37:A:LYS:HG2	10	0.51
(1,171)	1:107:A:LYS:HG3	1:47:A:THR:HA	11	0.51
(1,160)	1:71:A:LEU:HD12	1:74:A:ASP:HA	4	0.51
(1,124)	1:45:A:THR:HG22	1:46:A:LYS:HB3	18	0.51
(1,116)	1:89:A:VAL:HG12	1:87:A:LYS:HD3	5	0.51
(1,89)	1:127:A:VAL:H	1:127:A:VAL:HG21	12	0.51
(1,44)	1:117:A:SER:H	1:116:A:LYS:HD3	1	0.51
(1,44)	1:117:A:SER:H	1:116:A:LYS:HD3	17	0.51
(1,38)	1:138:A:PHE:H	1:164:A:ILE:HD11	12	0.51
(1,12)	1:140:A:ILE:H	1:127:A:VAL:HB	3	0.51
(1,12)	1:140:A:ILE:H	1:127:A:VAL:HB	7	0.51
(1,12)	1:140:A:ILE:H	1:127:A:VAL:HB	9	0.51
(1,12)	1:140:A:ILE:H	1:127:A:VAL:HB	20	0.51
(2,21)	1:161:A:ASN:H	1:158:A:GLU:O	4	0.5
(2,21)	1:161:A:ASN:H	1:158:A:GLU:O	5	0.5
(2,21)	1:161:A:ASN:H	1:158:A:GLU:O	10	0.5
(2,4)	1:79:A:LEU:H	1:87:A:LYS:O	19	0.5
(2,2)	1:72:A:VAL:H	1:93:A:LEU:O	9	0.5
(1,3501)	1:86:A:LEU:HB2	1:78:A:PHE:HD2	6	0.5
(1,3486)	1:138:A:PHE:HE2	1:128:A:ARG:HB3	4	0.5
(1,3486)	1:138:A:PHE:HE2	1:128:A:ARG:HB3	14	0.5
(1,3448)	1:34:A:TYR:HD2	1:38:A:VAL:HG23	1	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3448)	1:34:A:TYR:HD1	1:38:A:VAL:HG22	12	0.5
(1,3427)	1:61:A:PHE:HZ	1:61:A:PHE:HD1	1	0.5
(1,3427)	1:61:A:PHE:HZ	1:61:A:PHE:HD1	2	0.5
(1,3427)	1:61:A:PHE:HZ	1:61:A:PHE:HD1	3	0.5
(1,3427)	1:61:A:PHE:HZ	1:61:A:PHE:HD1	4	0.5
(1,3427)	1:61:A:PHE:HZ	1:61:A:PHE:HD1	6	0.5
(1,3427)	1:61:A:PHE:HZ	1:61:A:PHE:HD1	7	0.5
(1,3427)	1:61:A:PHE:HZ	1:61:A:PHE:HD1	11	0.5
(1,3427)	1:61:A:PHE:HZ	1:61:A:PHE:HD1	12	0.5
(1,3427)	1:61:A:PHE:HZ	1:61:A:PHE:HD1	13	0.5
(1,3427)	1:61:A:PHE:HZ	1:61:A:PHE:HD1	14	0.5
(1,3427)	1:61:A:PHE:HZ	1:61:A:PHE:HD1	15	0.5
(1,3427)	1:61:A:PHE:HZ	1:61:A:PHE:HD1	17	0.5
(1,3427)	1:61:A:PHE:HZ	1:61:A:PHE:HD1	18	0.5
(1,3427)	1:61:A:PHE:HZ	1:61:A:PHE:HD1	19	0.5
(1,3380)	1:40:A:LEU:HG	1:43:A:ILE:HD11	15	0.5
(1,3369)	1:174:A:LEU:HD21	1:95:A:THR:HG23	7	0.5
(1,3369)	1:174:A:LEU:HD22	1:95:A:THR:HG21	16	0.5
(1,3369)	1:174:A:LEU:HD22	1:95:A:THR:HG23	18	0.5
(1,3344)	1:149:A:MET:HE2	1:140:A:ILE:HG13	5	0.5
(1,3341)	1:55:A:MET:HE1	1:61:A:PHE:HB2	11	0.5
(1,3313)	1:109:A:ILE:HD13	1:104:A:LYS:HA	13	0.5
(1,3313)	1:109:A:ILE:HD11	1:104:A:LYS:HA	16	0.5
(1,3307)	1:53:A:MET:HE1	1:61:A:PHE:HE1	3	0.5
(1,3304)	1:119:A:VAL:HG22	1:110:A:PHE:HZ	12	0.5
(1,3290)	1:39:A:ARG:HD3	1:38:A:VAL:HG11	7	0.5
(1,3281)	1:101:A:LEU:HD13	1:109:A:ILE:H	3	0.5
(1,3281)	1:101:A:LEU:HD13	1:109:A:ILE:H	6	0.5
(1,3281)	1:101:A:LEU:HD13	1:109:A:ILE:H	12	0.5
(1,3281)	1:101:A:LEU:HD12	1:109:A:ILE:H	16	0.5
(1,3281)	1:101:A:LEU:HD11	1:109:A:ILE:H	20	0.5
(1,3277)	1:111:A:ALA:HB1	1:100:A:PHE:HD2	15	0.5
(1,3277)	1:111:A:ALA:HB2	1:100:A:PHE:HD2	18	0.5
(1,3271)	1:169:A:ASP:H	1:171:A:ILE:HD11	5	0.5
(1,3271)	1:169:A:ASP:H	1:171:A:ILE:HD13	16	0.5
(1,3231)	1:86:A:LEU:HD21	1:153:A:HIS:HA	6	0.5
(1,3229)	1:86:A:LEU:HD21	1:153:A:HIS:HE1	7	0.5
(1,3197)	1:111:A:ALA:HB1	1:118:A:THR:HA	14	0.5
(1,3169)	1:101:A:LEU:HD21	1:108:A:TYR:HA	5	0.5
(1,3169)	1:101:A:LEU:HD22	1:108:A:TYR:HA	10	0.5
(1,3169)	1:101:A:LEU:HD23	1:108:A:TYR:HA	14	0.5
(1,3169)	1:101:A:LEU:HD23	1:108:A:TYR:HA	20	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3156)	1:142:A:MET:HE1	1:142:A:MET:HA	15	0.5
(1,3149)	1:47:A:THR:HG22	1:63:A:LYS:HE2	19	0.5
(1,3067)	1:130:A:VAL:HG13	1:130:A:VAL:HA	11	0.5
(1,3051)	1:55:A:MET:HE2	1:59:A:GLN:HE22	4	0.5
(1,3023)	1:140:A:ILE:HD13	1:139:A:LEU:HA	11	0.5
(1,3021)	1:140:A:ILE:HD13	1:138:A:PHE:HE2	14	0.5
(1,2959)	1:110:A:PHE:HB2	1:119:A:VAL:HG13	13	0.5
(1,2951)	1:144:A:MET:HE1	1:144:A:MET:HA	3	0.5
(1,2810)	1:123:A:LYS:HA	1:123:A:LYS:HE2	4	0.5
(1,2810)	1:123:A:LYS:HA	1:123:A:LYS:HE2	11	0.5
(1,2793)	1:120:A:ILE:HD11	1:118:A:THR:HA	20	0.5
(1,2783)	1:117:A:SER:HA	1:55:A:MET:HB3	9	0.5
(1,2758)	1:44:A:TYR:HA	1:44:A:TYR:HE2	17	0.5
(1,2751)	1:155:A:SER:HA	1:78:A:PHE:HE2	17	0.5
(1,2712)	1:46:A:LYS:HA	1:107:A:LYS:HB3	8	0.5
(1,2709)	1:4:A:LYS:HB3	1:4:A:LYS:HA	8	0.5
(1,2708)	1:15:A:GLN:HB3	1:15:A:GLN:HA	8	0.5
(1,2645)	1:142:A:MET:HA	1:147:A:PRO:HG2	4	0.5
(1,2641)	1:85:A:ARG:HA	1:86:A:LEU:HD13	13	0.5
(1,2582)	1:53:A:MET:HA	1:53:A:MET:HE3	9	0.5
(1,2541)	1:136:A:GLY:HA2	1:130:A:VAL:HB	7	0.5
(1,2504)	1:73:A:ARG:HD3	1:166:A:ILE:HG23	18	0.5
(1,2496)	1:140:A:ILE:HD13	1:128:A:ARG:HD3	5	0.5
(1,2475)	1:80:A:LYS:HE2	1:86:A:LEU:HD11	5	0.5
(1,2475)	1:80:A:LYS:HE2	1:86:A:LEU:HD12	14	0.5
(1,2425)	1:126:A:ILE:HD12	1:126:A:ILE:HB	19	0.5
(1,2345)	1:115:A:GLN:HB2	1:115:A:GLN:HG2	4	0.5
(1,2345)	1:115:A:GLN:HB2	1:115:A:GLN:HG2	14	0.5
(1,2213)	1:10:A:GLN:HB3	1:10:A:GLN:HG2	1	0.5
(1,2213)	1:10:A:GLN:HB3	1:10:A:GLN:HG2	2	0.5
(1,2213)	1:10:A:GLN:HB3	1:10:A:GLN:HG2	9	0.5
(1,2213)	1:10:A:GLN:HB3	1:10:A:GLN:HG2	20	0.5
(1,2167)	1:67:A:LYS:HD3	1:67:A:LYS:H	16	0.5
(1,2166)	1:67:A:LYS:HD3	1:67:A:LYS:HA	1	0.5
(1,2159)	1:107:A:LYS:HD3	1:107:A:LYS:HB2	12	0.5
(1,2117)	1:139:A:LEU:HD11	1:100:A:PHE:HZ	6	0.5
(1,2075)	1:98:A:LEU:HD12	1:100:A:PHE:HZ	4	0.5
(1,2030)	1:124:A:LYS:HG3	1:123:A:LYS:HB3	4	0.5
(1,2030)	1:124:A:LYS:HG3	1:123:A:LYS:HB3	9	0.5
(1,2019)	1:170:A:THR:HG23	1:93:A:LEU:HD11	20	0.5
(1,1995)	1:174:A:LEU:HD13	1:12:A:ASP:HB2	15	0.5
(1,1970)	1:101:A:LEU:HD13	1:99:A:VAL:HG21	1	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1957)	1:66:A:LEU:HD13	1:66:A:LEU:HB3	16	0.5
(1,1946)	1:50:A:LYS:HG2	1:60:A:MET:HE2	18	0.5
(1,1926)	1:19:A:LEU:HD11	1:18:A:SER:HB2	5	0.5
(1,1877)	1:66:A:LEU:HD22	1:44:A:TYR:HA	5	0.5
(1,1877)	1:66:A:LEU:HD21	1:44:A:TYR:HA	17	0.5
(1,1866)	1:95:A:THR:HG22	1:72:A:VAL:HA	6	0.5
(1,1866)	1:95:A:THR:HG23	1:72:A:VAL:HA	8	0.5
(1,1864)	1:95:A:THR:HG22	1:72:A:VAL:HB	6	0.5
(1,1843)	1:40:A:LEU:HD23	1:44:A:TYR:HA	15	0.5
(1,1819)	1:79:A:LEU:HD21	1:150:A:VAL:HG11	1	0.5
(1,1819)	1:79:A:LEU:HD23	1:150:A:VAL:HG11	11	0.5
(1,1720)	1:154:A:ALA:HB3	1:77:A:VAL:HG11	8	0.5
(1,1720)	1:154:A:ALA:HB1	1:77:A:VAL:HG13	17	0.5
(1,1691)	1:111:A:ALA:HB2	1:102:A:GLN:HG2	15	0.5
(1,1677)	1:109:A:ILE:HG21	1:48:A:ASP:HA	7	0.5
(1,1677)	1:109:A:ILE:HG22	1:48:A:ASP:HA	10	0.5
(1,1677)	1:109:A:ILE:HG21	1:48:A:ASP:HA	19	0.5
(1,1620)	1:182:A:ILE:HG21	1:181:A:GLY:HA2	6	0.5
(1,1614)	1:171:A:ILE:HG21	1:174:A:LEU:HD13	9	0.5
(1,1614)	1:171:A:ILE:HG23	1:174:A:LEU:HD11	20	0.5
(1,1602)	1:149:A:MET:HE1	1:138:A:PHE:HD2	18	0.5
(1,1577)	1:164:A:ILE:HD12	1:164:A:ILE:HA	7	0.5
(1,1566)	1:97:A:ILE:HD12	1:121:A:SER:HA	5	0.5
(1,1564)	1:97:A:ILE:HD12	1:97:A:ILE:H	2	0.5
(1,1564)	1:97:A:ILE:HD13	1:97:A:ILE:H	13	0.5
(1,1543)	1:120:A:ILE:HD11	1:98:A:LEU:HD21	6	0.5
(1,1543)	1:120:A:ILE:HD11	1:98:A:LEU:HD21	16	0.5
(1,1504)	1:163:A:TRP:HE1	1:75:A:GLY:HA2	2	0.5
(1,1482)	1:60:A:MET:H	1:59:A:GLN:HB3	20	0.5
(1,1434)	1:58:A:GLY:H	1:55:A:MET:HG2	12	0.5
(1,1378)	1:41:A:ASN:HD22	1:45:A:THR:HG21	14	0.5
(1,1367)	1:135:A:LYS:H	1:135:A:LYS:HG2	1	0.5
(1,1184)	1:109:A:ILE:H	1:109:A:ILE:HD11	19	0.5
(1,1149)	1:175:A:ASN:H	1:175:A:ASN:HB3	2	0.5
(1,1149)	1:175:A:ASN:H	1:175:A:ASN:HB3	5	0.5
(1,1149)	1:175:A:ASN:H	1:175:A:ASN:HB3	18	0.5
(1,1116)	1:65:A:ASP:H	1:65:A:ASP:HB3	1	0.5
(1,1088)	1:166:A:ILE:H	1:166:A:ILE:HD11	9	0.5
(1,1061)	1:172:A:ASN:H	1:171:A:ILE:HD11	1	0.5
(1,1012)	1:47:A:THR:H	1:47:A:THR:HG22	6	0.5
(1,1012)	1:47:A:THR:H	1:47:A:THR:HG23	7	0.5
(1,1012)	1:47:A:THR:H	1:47:A:THR:HG23	13	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1012)	1:47:A:THR:H	1:47:A:THR:HG21	17	0.5
(1,920)	1:31:A:VAL:H	1:32:A:ALA:HB1	9	0.5
(1,884)	1:129:A:GLU:H	1:128:A:ARG:HB2	7	0.5
(1,852)	1:159:A:GLU:H	1:154:A:ALA:HB3	5	0.5
(1,813)	1:125:A:LEU:H	1:125:A:LEU:HB2	4	0.5
(1,813)	1:125:A:LEU:H	1:125:A:LEU:HB2	5	0.5
(1,667)	1:24:A:ILE:H	1:27:A:VAL:HG22	11	0.5
(1,611)	1:81:A:ASN:H	1:86:A:LEU:HD22	1	0.5
(1,558)	1:93:A:LEU:H	1:91:A:ALA:HB1	8	0.5
(1,558)	1:93:A:LEU:H	1:91:A:ALA:HB1	12	0.5
(1,542)	1:61:A:PHE:H	1:61:A:PHE:HD1	9	0.5
(1,507)	1:153:A:HIS:HE1	1:132:A:HIS:HD2	7	0.5
(1,489)	1:70:A:LYS:HB3	1:36:A:LYS:HE2	18	0.5
(1,484)	1:67:A:LYS:HD2	1:64:A:GLU:HG3	16	0.5
(1,482)	1:19:A:LEU:HG	1:19:A:LEU:HD21	6	0.5
(1,482)	1:19:A:LEU:HG	1:19:A:LEU:HD21	10	0.5
(1,465)	1:38:A:VAL:HG21	1:37:A:LYS:HE2	5	0.5
(1,446)	1:22:A:ASP:HA	1:21:A:LYS:HG3	16	0.5
(1,384)	1:169:A:ASP:HA	1:165:A:GLN:HG3	3	0.5
(1,384)	1:169:A:ASP:HA	1:165:A:GLN:HG3	10	0.5
(1,384)	1:169:A:ASP:HA	1:165:A:GLN:HG3	13	0.5
(1,373)	1:30:A:LYS:HB2	1:33:A:SER:HB2	11	0.5
(1,371)	1:19:A:LEU:HB2	1:18:A:SER:HB2	1	0.5
(1,349)	1:8:A:VAL:HA	1:8:A:VAL:HG13	17	0.5
(1,317)	1:14:A:ALA:HA	1:8:A:VAL:HG13	13	0.5
(1,293)	1:67:A:LYS:HE3	1:64:A:GLU:HA	2	0.5
(1,253)	1:115:A:GLN:HG2	1:113:A:LEU:HB2	1	0.5
(1,230)	1:67:A:LYS:HB3	1:67:A:LYS:HE2	2	0.5
(1,229)	1:30:A:LYS:HB2	1:27:A:VAL:HG22	2	0.5
(1,170)	1:107:A:LYS:HG3	1:46:A:LYS:HA	3	0.5
(1,170)	1:107:A:LYS:HG3	1:46:A:LYS:HA	14	0.5
(1,168)	1:107:A:LYS:HG2	1:106:A:GLN:HG3	14	0.5
(1,160)	1:71:A:LEU:HD11	1:74:A:ASP:HA	20	0.5
(1,134)	1:77:A:VAL:HG11	1:163:A:TRP:HZ2	4	0.5
(1,134)	1:77:A:VAL:HG12	1:163:A:TRP:HZ2	8	0.5
(1,124)	1:45:A:THR:HG22	1:46:A:LYS:HB3	13	0.5
(1,101)	1:164:A:ILE:HD13	1:129:A:GLU:HB3	7	0.5
(1,100)	1:171:A:ILE:HD13	1:125:A:LEU:HB3	5	0.5
(1,89)	1:127:A:VAL:H	1:127:A:VAL:HG11	3	0.5
(1,89)	1:127:A:VAL:H	1:127:A:VAL:HG23	11	0.5
(1,62)	1:4:A:LYS:H	1:5:A:ASP:HB2	11	0.5
(1,44)	1:117:A:SER:H	1:116:A:LYS:HD3	12	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,42)	1:76:A:SER:H	1:77:A:VAL:HG13	6	0.5
(1,38)	1:138:A:PHE:H	1:164:A:ILE:HD13	7	0.5
(1,38)	1:138:A:PHE:H	1:164:A:ILE:HD13	20	0.5
(1,33)	1:107:A:LYS:H	1:106:A:GLN:HG3	6	0.5
(2,11)	1:97:A:ILE:H	1:94:A:LEU:O	18	0.49
(2,4)	1:79:A:LEU:H	1:87:A:LYS:O	6	0.49
(2,4)	1:79:A:LEU:H	1:87:A:LYS:O	17	0.49
(2,3)	1:78:A:PHE:H	1:153:A:HIS:O	17	0.49
(1,3427)	1:61:A:PHE:HZ	1:61:A:PHE:HD1	5	0.49
(1,3380)	1:40:A:LEU:HG	1:43:A:ILE:HD12	17	0.49
(1,3344)	1:149:A:MET:HE2	1:140:A:ILE:HG13	15	0.49
(1,3325)	1:112:A:SER:HA	1:53:A:MET:HE2	6	0.49
(1,3313)	1:109:A:ILE:HD12	1:104:A:LYS:HA	17	0.49
(1,3304)	1:119:A:VAL:HG22	1:110:A:PHE:HZ	20	0.49
(1,3294)	1:65:A:ASP:HA	1:61:A:PHE:HE2	9	0.49
(1,3290)	1:39:A:ARG:HD3	1:38:A:VAL:HG13	11	0.49
(1,3281)	1:101:A:LEU:HD11	1:109:A:ILE:H	1	0.49
(1,3281)	1:101:A:LEU:HD13	1:109:A:ILE:H	14	0.49
(1,3281)	1:101:A:LEU:HD12	1:109:A:ILE:H	18	0.49
(1,3271)	1:169:A:ASP:H	1:171:A:ILE:HD11	12	0.49
(1,3268)	1:163:A:TRP:H	1:164:A:ILE:HD12	14	0.49
(1,3267)	1:167:A:ILE:HD13	1:171:A:ILE:H	3	0.49
(1,3267)	1:167:A:ILE:HD12	1:171:A:ILE:H	19	0.49
(1,3266)	1:52:A:ILE:HD12	1:60:A:MET:H	3	0.49
(1,3235)	1:125:A:LEU:HD22	1:171:A:ILE:H	8	0.49
(1,3230)	1:86:A:LEU:HD21	1:153:A:HIS:HD2	8	0.49
(1,3198)	1:101:A:LEU:HD22	1:110:A:PHE:HZ	6	0.49
(1,3185)	1:142:A:MET:HA	1:147:A:PRO:HB2	2	0.49
(1,3185)	1:142:A:MET:HA	1:147:A:PRO:HB2	13	0.49
(1,3169)	1:101:A:LEU:HD21	1:108:A:TYR:HA	8	0.49
(1,3169)	1:101:A:LEU:HD22	1:108:A:TYR:HA	15	0.49
(1,3169)	1:101:A:LEU:HD23	1:108:A:TYR:HA	17	0.49
(1,3152)	1:97:A:ILE:HD11	1:65:A:ASP:HB3	7	0.49
(1,3149)	1:47:A:THR:HG23	1:63:A:LYS:HE2	1	0.49
(1,3149)	1:47:A:THR:HG22	1:63:A:LYS:HE2	6	0.49
(1,3149)	1:47:A:THR:HG22	1:63:A:LYS:HE2	16	0.49
(1,3149)	1:47:A:THR:HG23	1:63:A:LYS:HE2	18	0.49
(1,3149)	1:47:A:THR:HG22	1:63:A:LYS:HE2	20	0.49
(1,3131)	1:4:A:LYS:HA	1:3:A:THR:HG21	19	0.49
(1,3100)	1:128:A:ARG:HB3	1:128:A:ARG:HD2	18	0.49
(1,3067)	1:130:A:VAL:HG13	1:130:A:VAL:HA	3	0.49
(1,3067)	1:130:A:VAL:HG12	1:130:A:VAL:HA	5	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3067)	1:130:A:VAL:HG13	1:130:A:VAL:HA	6	0.49
(1,3067)	1:130:A:VAL:HG13	1:130:A:VAL:HA	7	0.49
(1,3067)	1:130:A:VAL:HG11	1:130:A:VAL:HA	16	0.49
(1,3067)	1:130:A:VAL:HG12	1:130:A:VAL:HA	17	0.49
(1,3056)	1:144:A:MET:HE1	1:145:A:THR:HG23	12	0.49
(1,3056)	1:144:A:MET:HE2	1:145:A:THR:HG21	19	0.49
(1,3051)	1:55:A:MET:HE1	1:59:A:GLN:HE22	5	0.49
(1,3051)	1:55:A:MET:HE3	1:59:A:GLN:HE22	11	0.49
(1,3051)	1:55:A:MET:HE3	1:59:A:GLN:HE22	20	0.49
(1,3021)	1:140:A:ILE:HD11	1:138:A:PHE:HE2	3	0.49
(1,3021)	1:140:A:ILE:HD12	1:138:A:PHE:HE2	5	0.49
(1,3021)	1:140:A:ILE:HD12	1:138:A:PHE:HE2	17	0.49
(1,2924)	1:166:A:ILE:HD13	1:163:A:TRP:HA	4	0.49
(1,2924)	1:166:A:ILE:HD13	1:163:A:TRP:HA	19	0.49
(1,2826)	1:147:A:PRO:HA	1:140:A:ILE:HG23	5	0.49
(1,2820)	1:16:A:SER:HB3	1:16:A:SER:HA	17	0.49
(1,2793)	1:120:A:ILE:HD12	1:118:A:THR:HA	4	0.49
(1,2793)	1:120:A:ILE:HD13	1:118:A:THR:HA	10	0.49
(1,2758)	1:44:A:TYR:HA	1:44:A:TYR:HE2	14	0.49
(1,2758)	1:44:A:TYR:HA	1:44:A:TYR:HE2	15	0.49
(1,2739)	1:123:A:LYS:HD3	1:123:A:LYS:HA	2	0.49
(1,2721)	1:61:A:PHE:HA	1:61:A:PHE:HE1	8	0.49
(1,2712)	1:46:A:LYS:HA	1:107:A:LYS:HB3	11	0.49
(1,2709)	1:4:A:LYS:HB3	1:4:A:LYS:HA	9	0.49
(1,2708)	1:15:A:GLN:HB3	1:15:A:GLN:HA	12	0.49
(1,2645)	1:142:A:MET:HA	1:147:A:PRO:HG2	9	0.49
(1,2629)	1:137:A:LEU:HA	1:130:A:VAL:HG23	18	0.49
(1,2541)	1:136:A:GLY:HA2	1:130:A:VAL:HB	20	0.49
(1,2440)	1:28:A:ASP:HB3	1:25:A:GLY:HA3	20	0.49
(1,2432)	1:63:A:LYS:HE3	1:49:A:SER:HA	2	0.49
(1,2432)	1:63:A:LYS:HE3	1:49:A:SER:HA	15	0.49
(1,2384)	1:35:A:GLU:HG3	1:38:A:VAL:HG21	13	0.49
(1,2356)	1:128:A:ARG:HB3	1:130:A:VAL:H	8	0.49
(1,2345)	1:115:A:GLN:HB2	1:115:A:GLN:HG2	5	0.49
(1,2345)	1:115:A:GLN:HB2	1:115:A:GLN:HG2	10	0.49
(1,2345)	1:115:A:GLN:HB2	1:115:A:GLN:HG2	13	0.49
(1,2345)	1:115:A:GLN:HB2	1:115:A:GLN:HG2	16	0.49
(1,2345)	1:115:A:GLN:HB2	1:115:A:GLN:HG2	18	0.49
(1,2303)	1:144:A:MET:HG2	1:145:A:THR:HG23	15	0.49
(1,2249)	1:53:A:MET:HG2	1:119:A:VAL:HG23	1	0.49
(1,2249)	1:53:A:MET:HG2	1:119:A:VAL:HG21	10	0.49
(1,2249)	1:53:A:MET:HG2	1:119:A:VAL:HG21	16	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2222)	1:154:A:ALA:HB3	1:159:A:GLU:HB2	18	0.49
(1,2213)	1:10:A:GLN:HB3	1:10:A:GLN:HG2	6	0.49
(1,2213)	1:10:A:GLN:HB3	1:10:A:GLN:HG2	12	0.49
(1,2213)	1:10:A:GLN:HB3	1:10:A:GLN:HG2	16	0.49
(1,2205)	1:165:A:GLN:HB2	1:166:A:ILE:HG12	19	0.49
(1,2166)	1:67:A:LYS:HD3	1:67:A:LYS:HA	20	0.49
(1,2153)	1:64:A:GLU:HB2	1:44:A:TYR:HE2	1	0.49
(1,2153)	1:64:A:GLU:HB2	1:44:A:TYR:HE2	15	0.49
(1,2141)	1:56:A:LYS:HD3	1:144:A:MET:HE2	10	0.49
(1,2030)	1:124:A:LYS:HG3	1:123:A:LYS:HB3	8	0.49
(1,2022)	1:93:A:LEU:HD12	1:72:A:VAL:H	9	0.49
(1,2017)	1:167:A:ILE:HG21	1:93:A:LEU:HD12	13	0.49
(1,1995)	1:174:A:LEU:HD12	1:12:A:ASP:HB2	12	0.49
(1,1977)	1:101:A:LEU:HD13	1:110:A:PHE:HA	20	0.49
(1,1970)	1:101:A:LEU:HD12	1:99:A:VAL:HG23	8	0.49
(1,1970)	1:101:A:LEU:HD12	1:99:A:VAL:HG21	17	0.49
(1,1970)	1:101:A:LEU:HD11	1:99:A:VAL:HG22	18	0.49
(1,1958)	1:66:A:LEU:HD13	1:44:A:TYR:HB2	18	0.49
(1,1957)	1:66:A:LEU:HD13	1:66:A:LEU:HB3	14	0.49
(1,1886)	1:174:A:LEU:HD22	1:174:A:LEU:HD12	6	0.49
(1,1877)	1:66:A:LEU:HD21	1:44:A:TYR:HA	12	0.49
(1,1866)	1:95:A:THR:HG22	1:72:A:VAL:HA	12	0.49
(1,1864)	1:95:A:THR:HG22	1:72:A:VAL:HB	7	0.49
(1,1864)	1:95:A:THR:HG21	1:72:A:VAL:HB	9	0.49
(1,1864)	1:95:A:THR:HG23	1:72:A:VAL:HB	11	0.49
(1,1864)	1:95:A:THR:HG22	1:72:A:VAL:HB	12	0.49
(1,1843)	1:40:A:LEU:HD23	1:44:A:TYR:HA	4	0.49
(1,1819)	1:79:A:LEU:HD23	1:150:A:VAL:HG13	7	0.49
(1,1792)	1:122:A:LEU:HD11	1:122:A:LEU:HA	13	0.49
(1,1747)	1:72:A:VAL:HG23	1:95:A:THR:HG23	1	0.49
(1,1747)	1:72:A:VAL:HG21	1:95:A:THR:HG23	5	0.49
(1,1731)	1:31:A:VAL:HG11	1:32:A:ALA:HA	12	0.49
(1,1720)	1:154:A:ALA:HB1	1:77:A:VAL:HG12	5	0.49
(1,1687)	1:111:A:ALA:HB3	1:89:A:VAL:HG22	3	0.49
(1,1677)	1:109:A:ILE:HG22	1:48:A:ASP:HA	3	0.49
(1,1677)	1:109:A:ILE:HG23	1:48:A:ASP:HA	11	0.49
(1,1614)	1:171:A:ILE:HG23	1:174:A:LEU:HD11	13	0.49
(1,1583)	1:164:A:ILE:HG21	1:129:A:GLU:HG3	8	0.49
(1,1577)	1:164:A:ILE:HD11	1:164:A:ILE:HA	4	0.49
(1,1577)	1:164:A:ILE:HD11	1:164:A:ILE:HA	5	0.49
(1,1577)	1:164:A:ILE:HD12	1:164:A:ILE:HA	9	0.49
(1,1577)	1:164:A:ILE:HD13	1:164:A:ILE:HA	10	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1577)	1:164:A:ILE:HD13	1:164:A:ILE:HA	11	0.49
(1,1577)	1:164:A:ILE:HD13	1:164:A:ILE:HA	12	0.49
(1,1577)	1:164:A:ILE:HD13	1:164:A:ILE:HA	17	0.49
(1,1577)	1:164:A:ILE:HD12	1:164:A:ILE:HA	19	0.49
(1,1575)	1:164:A:ILE:HD11	1:161:A:ASN:HB3	1	0.49
(1,1575)	1:164:A:ILE:HD11	1:161:A:ASN:HB3	10	0.49
(1,1575)	1:164:A:ILE:HD13	1:161:A:ASN:HB3	17	0.49
(1,1567)	1:171:A:ILE:HD11	1:174:A:LEU:HD12	1	0.49
(1,1564)	1:97:A:ILE:HD11	1:97:A:ILE:H	4	0.49
(1,1564)	1:97:A:ILE:HD13	1:97:A:ILE:H	7	0.49
(1,1564)	1:97:A:ILE:HD11	1:97:A:ILE:H	9	0.49
(1,1530)	1:167:A:ILE:HD13	1:168:A:GLN:HB3	5	0.49
(1,1504)	1:163:A:TRP:HE1	1:75:A:GLY:HA2	16	0.49
(1,1482)	1:60:A:MET:H	1:59:A:GLN:HB3	4	0.49
(1,1482)	1:60:A:MET:H	1:59:A:GLN:HB3	10	0.49
(1,1482)	1:60:A:MET:H	1:59:A:GLN:HB3	17	0.49
(1,1283)	1:22:A:ASP:H	1:22:A:ASP:HB3	13	0.49
(1,1258)	1:75:A:GLY:H	1:74:A:ASP:HB3	7	0.49
(1,1258)	1:75:A:GLY:H	1:74:A:ASP:HB3	9	0.49
(1,1075)	1:162:A:SER:H	1:161:A:ASN:HB2	16	0.49
(1,1012)	1:47:A:THR:H	1:47:A:THR:HG23	2	0.49
(1,1001)	1:119:A:VAL:H	1:119:A:VAL:HG22	3	0.49
(1,1001)	1:119:A:VAL:H	1:119:A:VAL:HG23	14	0.49
(1,913)	1:50:A:LYS:H	1:50:A:LYS:HG2	10	0.49
(1,823)	1:86:A:LEU:H	1:85:A:ARG:HB2	4	0.49
(1,701)	1:137:A:LEU:H	1:130:A:VAL:HG21	3	0.49
(1,671)	1:140:A:ILE:H	1:140:A:ILE:HG22	7	0.49
(1,671)	1:140:A:ILE:H	1:140:A:ILE:HG21	13	0.49
(1,627)	1:98:A:LEU:H	1:97:A:ILE:HG12	12	0.49
(1,627)	1:98:A:LEU:H	1:97:A:ILE:HG12	20	0.49
(1,558)	1:93:A:LEU:H	1:91:A:ALA:HB1	16	0.49
(1,549)	1:61:A:PHE:H	1:52:A:ILE:HG23	2	0.49
(1,507)	1:153:A:HIS:HE1	1:132:A:HIS:HD2	17	0.49
(1,489)	1:70:A:LYS:HB3	1:36:A:LYS:HE2	16	0.49
(1,489)	1:70:A:LYS:HB3	1:36:A:LYS:HE2	19	0.49
(1,482)	1:19:A:LEU:HG	1:19:A:LEU:HD23	3	0.49
(1,482)	1:19:A:LEU:HG	1:19:A:LEU:HD23	11	0.49
(1,475)	1:109:A:ILE:HD13	1:51:A:SER:HB3	9	0.49
(1,475)	1:109:A:ILE:HD11	1:51:A:SER:HB3	10	0.49
(1,475)	1:109:A:ILE:HD13	1:51:A:SER:HB3	17	0.49
(1,475)	1:109:A:ILE:HD12	1:51:A:SER:HB3	19	0.49
(1,465)	1:38:A:VAL:HG21	1:37:A:LYS:HE2	9	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,455)	1:151:A:GLU:HB2	1:116:A:LYS:HD3	5	0.49
(1,432)	1:67:A:LYS:HE3	1:44:A:TYR:HD1	6	0.49
(1,405)	1:43:A:ILE:HD11	1:39:A:ARG:HG3	3	0.49
(1,404)	1:56:A:LYS:HA	1:144:A:MET:HE3	8	0.49
(1,404)	1:36:A:LYS:HA	1:35:A:GLU:HB3	12	0.49
(1,384)	1:169:A:ASP:HA	1:165:A:GLN:HG3	6	0.49
(1,373)	1:30:A:LYS:HB2	1:33:A:SER:HB2	8	0.49
(1,371)	1:19:A:LEU:HB2	1:18:A:SER:HB2	20	0.49
(1,369)	1:16:A:SER:HB3	1:4:A:LYS:HG2	12	0.49
(1,317)	1:14:A:ALA:HA	1:8:A:VAL:HG12	4	0.49
(1,297)	1:19:A:LEU:HB3	1:18:A:SER:HB2	15	0.49
(1,296)	1:19:A:LEU:HB2	1:11:A:GLU:HA	13	0.49
(1,237)	1:20:A:VAL:HG21	1:20:A:VAL:HB	2	0.49
(1,237)	1:20:A:VAL:HG23	1:20:A:VAL:HB	3	0.49
(1,237)	1:20:A:VAL:HB	1:20:A:VAL:HG13	5	0.49
(1,237)	1:20:A:VAL:HG23	1:20:A:VAL:HB	10	0.49
(1,230)	1:67:A:LYS:HB3	1:67:A:LYS:HE2	8	0.49
(1,230)	1:67:A:LYS:HB3	1:67:A:LYS:HE2	11	0.49
(1,170)	1:107:A:LYS:HG3	1:46:A:LYS:HA	12	0.49
(1,161)	1:71:A:LEU:HD12	1:93:A:LEU:H	19	0.49
(1,134)	1:77:A:VAL:HG13	1:163:A:TRP:HZ2	15	0.49
(1,133)	1:86:A:LEU:HD11	1:153:A:HIS:HB2	8	0.49
(1,126)	1:95:A:THR:HG21	1:70:A:LYS:HD2	6	0.49
(1,116)	1:89:A:VAL:HG11	1:87:A:LYS:HD3	9	0.49
(1,116)	1:89:A:VAL:HG13	1:87:A:LYS:HD3	18	0.49
(1,89)	1:127:A:VAL:H	1:127:A:VAL:HG13	9	0.49
(1,58)	1:13:A:LEU:H	1:19:A:LEU:HD12	5	0.49
(1,58)	1:13:A:LEU:H	1:19:A:LEU:HD11	14	0.49
(1,44)	1:117:A:SER:H	1:116:A:LYS:HD3	6	0.49
(1,42)	1:76:A:SER:H	1:77:A:VAL:HG12	8	0.49
(1,12)	1:140:A:ILE:H	1:127:A:VAL:HB	12	0.49
(1,5)	1:120:A:ILE:H	1:97:A:ILE:HG21	16	0.49
(2,26)	1:169:A:ASP:H	1:166:A:ILE:O	9	0.48
(2,25)	1:168:A:GLN:H	1:164:A:ILE:O	15	0.48
(2,3)	1:78:A:PHE:H	1:153:A:HIS:O	13	0.48
(1,3507)	1:43:A:ILE:HD13	1:108:A:TYR:HE2	4	0.48
(1,3486)	1:138:A:PHE:HE2	1:128:A:ARG:HB3	1	0.48
(1,3451)	1:66:A:LEU:HB3	1:44:A:TYR:HD2	8	0.48
(1,3448)	1:34:A:TYR:HD1	1:38:A:VAL:HG21	13	0.48
(1,3417)	1:47:A:THR:HG22	1:63:A:LYS:HE3	5	0.48
(1,3401)	1:126:A:ILE:HG22	1:143:A:GLY:H	14	0.48
(1,3399)	1:125:A:LEU:HD23	1:170:A:THR:HB	11	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3380)	1:40:A:LEU:HG	1:43:A:ILE:HD13	2	0.48
(1,3380)	1:40:A:LEU:HG	1:43:A:ILE:HD11	3	0.48
(1,3380)	1:40:A:LEU:HG	1:43:A:ILE:HD12	13	0.48
(1,3369)	1:174:A:LEU:HD23	1:95:A:THR:HG23	12	0.48
(1,3361)	1:157:A:LYS:HA	1:160:A:ARG:HB2	9	0.48
(1,3313)	1:109:A:ILE:HD12	1:104:A:LYS:HA	2	0.48
(1,3313)	1:109:A:ILE:HD11	1:104:A:LYS:HA	19	0.48
(1,3304)	1:119:A:VAL:HG23	1:110:A:PHE:HZ	3	0.48
(1,3304)	1:119:A:VAL:HG22	1:110:A:PHE:HZ	6	0.48
(1,3304)	1:119:A:VAL:HG22	1:110:A:PHE:HZ	7	0.48
(1,3304)	1:119:A:VAL:HG23	1:110:A:PHE:HZ	11	0.48
(1,3304)	1:119:A:VAL:HG21	1:110:A:PHE:HZ	19	0.48
(1,3294)	1:65:A:ASP:HA	1:61:A:PHE:HE2	16	0.48
(1,3281)	1:101:A:LEU:HD11	1:109:A:ILE:H	9	0.48
(1,3281)	1:101:A:LEU:HD11	1:109:A:ILE:H	15	0.48
(1,3277)	1:111:A:ALA:HB2	1:100:A:PHE:HD2	13	0.48
(1,3271)	1:169:A:ASP:H	1:171:A:ILE:HD11	19	0.48
(1,3267)	1:167:A:ILE:HD11	1:171:A:ILE:H	4	0.48
(1,3267)	1:167:A:ILE:HD12	1:171:A:ILE:H	16	0.48
(1,3266)	1:52:A:ILE:HD12	1:60:A:MET:H	4	0.48
(1,3216)	1:15:A:GLN:HB3	1:2:A:MET:HG3	11	0.48
(1,3185)	1:142:A:MET:HA	1:147:A:PRO:HB2	4	0.48
(1,3185)	1:142:A:MET:HA	1:147:A:PRO:HB2	12	0.48
(1,3177)	1:158:A:GLU:HG2	1:158:A:GLU:HB3	17	0.48
(1,3169)	1:101:A:LEU:HD21	1:108:A:TYR:HA	3	0.48
(1,3169)	1:101:A:LEU:HD21	1:108:A:TYR:HA	13	0.48
(1,3152)	1:97:A:ILE:HD12	1:65:A:ASP:HB3	9	0.48
(1,3149)	1:47:A:THR:HG23	1:63:A:LYS:HE2	3	0.48
(1,3149)	1:47:A:THR:HG23	1:63:A:LYS:HE2	9	0.48
(1,3149)	1:47:A:THR:HG22	1:63:A:LYS:HE2	12	0.48
(1,3142)	1:89:A:VAL:HG12	1:87:A:LYS:HE3	20	0.48
(1,3067)	1:130:A:VAL:HG12	1:130:A:VAL:HA	9	0.48
(1,3067)	1:130:A:VAL:HG13	1:130:A:VAL:HA	15	0.48
(1,3051)	1:55:A:MET:HE1	1:59:A:GLN:HE22	13	0.48
(1,3021)	1:140:A:ILE:HD11	1:138:A:PHE:HE2	1	0.48
(1,3021)	1:140:A:ILE:HD11	1:138:A:PHE:HE2	7	0.48
(1,3021)	1:140:A:ILE:HD13	1:138:A:PHE:HE2	13	0.48
(1,2951)	1:144:A:MET:HE3	1:144:A:MET:HA	9	0.48
(1,2942)	1:110:A:PHE:HB2	1:53:A:MET:HE3	5	0.48
(1,2858)	1:176:A:ARG:HD3	1:173:A:THR:HA	4	0.48
(1,2832)	1:119:A:VAL:HA	1:120:A:ILE:HD12	2	0.48
(1,2810)	1:123:A:LYS:HA	1:123:A:LYS:HE2	1	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2793)	1:120:A:ILE:HD13	1:118:A:THR:HA	1	0.48
(1,2753)	1:155:A:SER:HA	1:78:A:PHE:HD1	11	0.48
(1,2720)	1:41:A:ASN:HA	1:44:A:TYR:HE1	8	0.48
(1,2696)	1:4:A:LYS:HA	1:4:A:LYS:HD2	18	0.48
(1,2582)	1:53:A:MET:HA	1:53:A:MET:HE3	2	0.48
(1,2496)	1:140:A:ILE:HD11	1:128:A:ARG:HD3	19	0.48
(1,2477)	1:80:A:LYS:HE3	1:80:A:LYS:HB2	14	0.48
(1,2475)	1:80:A:LYS:HE2	1:86:A:LEU:HD13	6	0.48
(1,2465)	1:50:A:LYS:HG2	1:50:A:LYS:HE3	9	0.48
(1,2391)	1:151:A:GLU:HG3	1:80:A:LYS:HB3	13	0.48
(1,2384)	1:35:A:GLU:HG3	1:38:A:VAL:HG22	14	0.48
(1,2383)	1:35:A:GLU:HG3	1:38:A:VAL:HG11	5	0.48
(1,2353)	1:133:A:GLU:HG3	1:130:A:VAL:HG13	14	0.48
(1,2345)	1:115:A:GLN:HB2	1:115:A:GLN:HG2	3	0.48
(1,2345)	1:115:A:GLN:HB2	1:115:A:GLN:HG2	17	0.48
(1,2279)	1:123:A:LYS:HB2	1:174:A:LEU:HD12	8	0.48
(1,2266)	1:149:A:MET:HB3	1:138:A:PHE:HA	7	0.48
(1,2249)	1:53:A:MET:HG2	1:119:A:VAL:HG22	15	0.48
(1,2216)	1:104:A:LYS:HD3	1:104:A:LYS:HG3	17	0.48
(1,2213)	1:10:A:GLN:HB3	1:10:A:GLN:HG2	13	0.48
(1,2188)	1:98:A:LEU:HD21	1:93:A:LEU:HD21	8	0.48
(1,2167)	1:67:A:LYS:HD3	1:67:A:LYS:H	13	0.48
(1,2166)	1:67:A:LYS:HD3	1:67:A:LYS:HA	11	0.48
(1,2159)	1:107:A:LYS:HD3	1:107:A:LYS:HB2	7	0.48
(1,2159)	1:107:A:LYS:HD3	1:107:A:LYS:HB2	10	0.48
(1,2157)	1:135:A:LYS:HD3	1:135:A:LYS:HB3	14	0.48
(1,2075)	1:98:A:LEU:HD12	1:100:A:PHE:HZ	3	0.48
(1,2075)	1:98:A:LEU:HD11	1:100:A:PHE:HZ	10	0.48
(1,1995)	1:174:A:LEU:HD11	1:12:A:ASP:HB2	19	0.48
(1,1994)	1:174:A:LEU:HD13	1:171:A:ILE:HB	8	0.48
(1,1977)	1:101:A:LEU:HD12	1:110:A:PHE:HA	6	0.48
(1,1977)	1:101:A:LEU:HD11	1:110:A:PHE:HA	16	0.48
(1,1975)	1:101:A:LEU:HD11	1:90:A:GLN:HG2	7	0.48
(1,1970)	1:101:A:LEU:HD11	1:99:A:VAL:HG21	2	0.48
(1,1970)	1:101:A:LEU:HD11	1:99:A:VAL:HG23	11	0.48
(1,1958)	1:66:A:LEU:HD13	1:44:A:TYR:HB2	4	0.48
(1,1957)	1:66:A:LEU:HD11	1:66:A:LEU:HB3	6	0.48
(1,1957)	1:66:A:LEU:HD11	1:66:A:LEU:HB3	10	0.48
(1,1957)	1:66:A:LEU:HD13	1:66:A:LEU:HB3	15	0.48
(1,1932)	1:94:A:LEU:HD23	1:94:A:LEU:HA	19	0.48
(1,1893)	1:94:A:LEU:HD12	1:71:A:LEU:HA	1	0.48
(1,1886)	1:174:A:LEU:HD21	1:174:A:LEU:HD12	9	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1877)	1:66:A:LEU:HD22	1:44:A:TYR:HA	3	0.48
(1,1877)	1:66:A:LEU:HD22	1:44:A:TYR:HA	16	0.48
(1,1866)	1:95:A:THR:HG23	1:72:A:VAL:HA	5	0.48
(1,1864)	1:95:A:THR:HG23	1:72:A:VAL:HB	13	0.48
(1,1843)	1:40:A:LEU:HD23	1:44:A:TYR:HA	20	0.48
(1,1828)	1:3:A:THR:HG22	1:3:A:THR:HA	15	0.48
(1,1815)	1:173:A:THR:HG23	1:176:A:ARG:HB2	3	0.48
(1,1794)	1:113:A:LEU:HD21	1:79:A:LEU:HB2	15	0.48
(1,1749)	1:72:A:VAL:HG11	1:72:A:VAL:HA	20	0.48
(1,1731)	1:31:A:VAL:HG11	1:32:A:ALA:HA	5	0.48
(1,1731)	1:31:A:VAL:HG12	1:32:A:ALA:HA	6	0.48
(1,1698)	1:91:A:ALA:HB2	1:98:A:LEU:HD21	15	0.48
(1,1691)	1:111:A:ALA:HB3	1:102:A:GLN:HG2	7	0.48
(1,1691)	1:111:A:ALA:HB2	1:102:A:GLN:HG2	19	0.48
(1,1614)	1:171:A:ILE:HG23	1:174:A:LEU:HD13	6	0.48
(1,1614)	1:171:A:ILE:HG21	1:174:A:LEU:HD13	14	0.48
(1,1602)	1:149:A:MET:HE3	1:138:A:PHE:HD2	11	0.48
(1,1583)	1:164:A:ILE:HG21	1:129:A:GLU:HG3	9	0.48
(1,1577)	1:164:A:ILE:HD13	1:164:A:ILE:HA	1	0.48
(1,1577)	1:164:A:ILE:HD11	1:164:A:ILE:HA	2	0.48
(1,1577)	1:164:A:ILE:HD12	1:164:A:ILE:HA	3	0.48
(1,1577)	1:164:A:ILE:HD11	1:164:A:ILE:HA	14	0.48
(1,1577)	1:164:A:ILE:HD11	1:164:A:ILE:HA	15	0.48
(1,1577)	1:164:A:ILE:HD13	1:164:A:ILE:HA	16	0.48
(1,1504)	1:163:A:TRP:HE1	1:75:A:GLY:HA2	18	0.48
(1,1482)	1:60:A:MET:H	1:59:A:GLN:HB3	1	0.48
(1,1482)	1:60:A:MET:H	1:59:A:GLN:HB3	12	0.48
(1,1482)	1:60:A:MET:H	1:59:A:GLN:HB3	16	0.48
(1,1423)	1:134:A:GLU:H	1:134:A:GLU:HG2	1	0.48
(1,1423)	1:134:A:GLU:H	1:134:A:GLU:HG2	9	0.48
(1,1342)	1:100:A:PHE:H	1:98:A:LEU:HD22	20	0.48
(1,1311)	1:63:A:LYS:H	1:63:A:LYS:HD2	5	0.48
(1,1301)	1:79:A:LEU:H	1:78:A:PHE:HD2	16	0.48
(1,1275)	1:163:A:TRP:HE1	1:154:A:ALA:HB1	8	0.48
(1,1275)	1:163:A:TRP:HE1	1:154:A:ALA:HB2	15	0.48
(1,1258)	1:75:A:GLY:H	1:74:A:ASP:HB3	20	0.48
(1,1149)	1:175:A:ASN:H	1:175:A:ASN:HB3	8	0.48
(1,1149)	1:175:A:ASN:H	1:175:A:ASN:HB3	16	0.48
(1,1075)	1:162:A:SER:H	1:161:A:ASN:HB2	14	0.48
(1,1061)	1:172:A:ASN:H	1:171:A:ILE:HD11	13	0.48
(1,992)	1:27:A:VAL:H	1:26:A:ALA:HB1	20	0.48
(1,893)	1:176:A:ARG:H	1:175:A:ASN:HB2	3	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,884)	1:129:A:GLU:H	1:128:A:ARG:HB2	2	0.48
(1,884)	1:129:A:GLU:H	1:128:A:ARG:HB2	4	0.48
(1,884)	1:129:A:GLU:H	1:128:A:ARG:HB2	14	0.48
(1,884)	1:129:A:GLU:H	1:128:A:ARG:HB2	16	0.48
(1,884)	1:129:A:GLU:H	1:128:A:ARG:HB2	17	0.48
(1,823)	1:86:A:LEU:H	1:85:A:ARG:HB2	6	0.48
(1,823)	1:86:A:LEU:H	1:85:A:ARG:HB2	8	0.48
(1,712)	1:74:A:ASP:H	1:71:A:LEU:HD11	1	0.48
(1,671)	1:140:A:ILE:H	1:140:A:ILE:HG21	4	0.48
(1,671)	1:140:A:ILE:H	1:140:A:ILE:HG22	11	0.48
(1,671)	1:140:A:ILE:H	1:140:A:ILE:HG23	18	0.48
(1,671)	1:140:A:ILE:H	1:140:A:ILE:HG22	20	0.48
(1,611)	1:81:A:ASN:H	1:86:A:LEU:HD21	17	0.48
(1,568)	1:88:A:GLU:H	1:78:A:PHE:HD1	19	0.48
(1,558)	1:93:A:LEU:H	1:91:A:ALA:HB2	7	0.48
(1,558)	1:93:A:LEU:H	1:91:A:ALA:HB2	14	0.48
(1,542)	1:61:A:PHE:H	1:61:A:PHE:HD1	1	0.48
(1,542)	1:61:A:PHE:H	1:61:A:PHE:HD1	2	0.48
(1,542)	1:61:A:PHE:H	1:61:A:PHE:HD1	13	0.48
(1,516)	1:153:A:HIS:HD2	1:133:A:GLU:HB2	19	0.48
(1,505)	1:37:A:LYS:HE2	1:34:A:TYR:HD1	8	0.48
(1,484)	1:67:A:LYS:HD2	1:64:A:GLU:HG3	9	0.48
(1,482)	1:19:A:LEU:HG	1:19:A:LEU:HD22	8	0.48
(1,482)	1:19:A:LEU:HG	1:19:A:LEU:HD23	9	0.48
(1,465)	1:38:A:VAL:HG22	1:37:A:LYS:HE3	15	0.48
(1,465)	1:38:A:VAL:HG21	1:37:A:LYS:HE2	18	0.48
(1,455)	1:151:A:GLU:HB2	1:116:A:LYS:HD2	10	0.48
(1,446)	1:22:A:ASP:HA	1:21:A:LYS:HG3	15	0.48
(1,404)	1:56:A:LYS:HA	1:144:A:MET:HE2	5	0.48
(1,396)	1:21:A:LYS:HA	1:21:A:LYS:HG3	12	0.48
(1,373)	1:30:A:LYS:HB2	1:33:A:SER:HB2	4	0.48
(1,347)	1:162:A:SER:HB3	1:166:A:ILE:HD13	14	0.48
(1,320)	1:138:A:PHE:HA	1:139:A:LEU:HD22	4	0.48
(1,317)	1:14:A:ALA:HA	1:8:A:VAL:HG12	9	0.48
(1,306)	1:24:A:ILE:HG22	1:25:A:GLY:HA3	13	0.48
(1,306)	1:24:A:ILE:HG22	1:25:A:GLY:HA3	20	0.48
(1,296)	1:19:A:LEU:HB2	1:11:A:GLU:HA	1	0.48
(1,293)	1:67:A:LYS:HE3	1:64:A:GLU:HA	5	0.48
(1,272)	1:87:A:LYS:HE3	1:111:A:ALA:HB3	14	0.48
(1,253)	1:115:A:GLN:HG2	1:113:A:LEU:HB2	15	0.48
(1,237)	1:20:A:VAL:HB	1:20:A:VAL:HG12	1	0.48
(1,237)	1:20:A:VAL:HG22	1:20:A:VAL:HB	13	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,237)	1:20:A:VAL:HB	1:20:A:VAL:HG12	18	0.48
(1,208)	1:93:A:LEU:HD21	1:73:A:ARG:HB2	2	0.48
(1,208)	1:93:A:LEU:HD22	1:73:A:ARG:HB2	12	0.48
(1,175)	1:67:A:LYS:HG3	1:37:A:LYS:HG2	7	0.48
(1,175)	1:67:A:LYS:HG3	1:37:A:LYS:HG2	18	0.48
(1,170)	1:107:A:LYS:HG3	1:46:A:LYS:HA	6	0.48
(1,170)	1:107:A:LYS:HG3	1:46:A:LYS:HA	13	0.48
(1,159)	1:71:A:LEU:HD12	1:94:A:LEU:HA	2	0.48
(1,116)	1:89:A:VAL:HG12	1:87:A:LYS:HD3	7	0.48
(1,109)	1:97:A:ILE:HD13	1:119:A:VAL:HG21	1	0.48
(1,87)	1:9:A:GLU:H	1:8:A:VAL:HG22	15	0.48
(1,62)	1:4:A:LYS:H	1:5:A:ASP:HB2	14	0.48
(1,42)	1:76:A:SER:H	1:77:A:VAL:HG11	1	0.48
(1,42)	1:76:A:SER:H	1:77:A:VAL:HG12	9	0.48
(1,42)	1:76:A:SER:H	1:77:A:VAL:HG13	15	0.48
(1,20)	1:11:A:GLU:H	1:13:A:LEU:H	12	0.48
(1,17)	1:14:A:ALA:H	1:19:A:LEU:HB2	19	0.48
(2,26)	1:169:A:ASP:H	1:166:A:ILE:O	10	0.47
(2,2)	1:72:A:VAL:H	1:93:A:LEU:O	10	0.47
(1,3507)	1:43:A:ILE:HD11	1:108:A:TYR:HE2	10	0.47
(1,3451)	1:66:A:LEU:HB3	1:44:A:TYR:HD2	10	0.47
(1,3451)	1:66:A:LEU:HB3	1:44:A:TYR:HD2	17	0.47
(1,3427)	1:61:A:PHE:HZ	1:61:A:PHE:HD2	8	0.47
(1,3417)	1:47:A:THR:HG22	1:63:A:LYS:HE3	14	0.47
(1,3380)	1:40:A:LEU:HG	1:43:A:ILE:HD12	19	0.47
(1,3304)	1:119:A:VAL:HG21	1:110:A:PHE:HZ	14	0.47
(1,3268)	1:163:A:TRP:H	1:164:A:ILE:HD12	2	0.47
(1,3268)	1:163:A:TRP:H	1:164:A:ILE:HD13	3	0.47
(1,3268)	1:163:A:TRP:H	1:164:A:ILE:HD11	10	0.47
(1,3268)	1:163:A:TRP:H	1:164:A:ILE:HD11	16	0.47
(1,3267)	1:167:A:ILE:HD13	1:171:A:ILE:H	11	0.47
(1,3267)	1:167:A:ILE:HD11	1:171:A:ILE:H	17	0.47
(1,3266)	1:52:A:ILE:HD11	1:60:A:MET:H	2	0.47
(1,3266)	1:52:A:ILE:HD12	1:60:A:MET:H	8	0.47
(1,3266)	1:52:A:ILE:HD11	1:60:A:MET:H	10	0.47
(1,3230)	1:86:A:LEU:HD22	1:153:A:HIS:HD2	10	0.47
(1,3229)	1:86:A:LEU:HD23	1:153:A:HIS:HE1	2	0.47
(1,3221)	1:152:A:VAL:HG21	1:150:A:VAL:H	8	0.47
(1,3221)	1:152:A:VAL:HG22	1:150:A:VAL:H	13	0.47
(1,3198)	1:101:A:LEU:HD21	1:110:A:PHE:HZ	11	0.47
(1,3198)	1:101:A:LEU:HD21	1:110:A:PHE:HZ	12	0.47
(1,3197)	1:111:A:ALA:HB1	1:118:A:THR:HA	7	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3197)	1:111:A:ALA:HB2	1:118:A:THR:HA	10	0.47
(1,3197)	1:111:A:ALA:HB2	1:118:A:THR:HA	11	0.47
(1,3197)	1:111:A:ALA:HB2	1:118:A:THR:HA	12	0.47
(1,3197)	1:111:A:ALA:HB2	1:118:A:THR:HA	13	0.47
(1,3197)	1:111:A:ALA:HB2	1:118:A:THR:HA	18	0.47
(1,3185)	1:142:A:MET:HA	1:147:A:PRO:HB2	5	0.47
(1,3185)	1:142:A:MET:HA	1:147:A:PRO:HB2	10	0.47
(1,3185)	1:142:A:MET:HA	1:147:A:PRO:HB2	16	0.47
(1,3185)	1:142:A:MET:HA	1:147:A:PRO:HB2	19	0.47
(1,3169)	1:101:A:LEU:HD21	1:108:A:TYR:HA	9	0.47
(1,3169)	1:101:A:LEU:HD23	1:108:A:TYR:HA	11	0.47
(1,3169)	1:101:A:LEU:HD22	1:108:A:TYR:HA	19	0.47
(1,3156)	1:142:A:MET:HE1	1:142:A:MET:HA	10	0.47
(1,3149)	1:47:A:THR:HG23	1:63:A:LYS:HE2	2	0.47
(1,3149)	1:47:A:THR:HG23	1:63:A:LYS:HE2	7	0.47
(1,3149)	1:47:A:THR:HG23	1:63:A:LYS:HE2	13	0.47
(1,3094)	1:66:A:LEU:HB3	1:61:A:PHE:HE1	18	0.47
(1,3092)	1:157:A:LYS:HA	1:157:A:LYS:HE2	15	0.47
(1,3067)	1:130:A:VAL:HG11	1:130:A:VAL:HA	2	0.47
(1,3067)	1:130:A:VAL:HG11	1:130:A:VAL:HA	20	0.47
(1,3053)	1:55:A:MET:HE2	1:119:A:VAL:H	8	0.47
(1,3053)	1:55:A:MET:HE1	1:119:A:VAL:H	12	0.47
(1,3051)	1:55:A:MET:HE2	1:59:A:GLN:HE22	16	0.47
(1,3051)	1:55:A:MET:HE2	1:59:A:GLN:HE22	17	0.47
(1,3023)	1:140:A:ILE:HD12	1:139:A:LEU:HA	18	0.47
(1,2987)	1:38:A:VAL:HG21	1:41:A:ASN:HD22	14	0.47
(1,2945)	1:53:A:MET:HE1	1:52:A:ILE:HG22	7	0.47
(1,2942)	1:110:A:PHE:HB2	1:53:A:MET:HE3	2	0.47
(1,2942)	1:110:A:PHE:HB2	1:53:A:MET:HE3	9	0.47
(1,2942)	1:110:A:PHE:HB2	1:53:A:MET:HE1	17	0.47
(1,2902)	1:46:A:LYS:HB2	1:108:A:TYR:HE2	19	0.47
(1,2826)	1:147:A:PRO:HA	1:140:A:ILE:HG21	15	0.47
(1,2753)	1:155:A:SER:HA	1:78:A:PHE:HD2	13	0.47
(1,2753)	1:155:A:SER:HA	1:78:A:PHE:HD2	20	0.47
(1,2720)	1:41:A:ASN:HA	1:44:A:TYR:HE1	11	0.47
(1,2720)	1:41:A:ASN:HA	1:44:A:TYR:HE1	18	0.47
(1,2712)	1:46:A:LYS:HA	1:107:A:LYS:HB3	7	0.47
(1,2696)	1:4:A:LYS:HA	1:4:A:LYS:HD2	11	0.47
(1,2677)	1:144:A:MET:HG2	1:144:A:MET:HA	14	0.47
(1,2657)	1:108:A:TYR:HA	1:109:A:ILE:HD13	5	0.47
(1,2582)	1:53:A:MET:HA	1:53:A:MET:HE3	5	0.47
(1,2582)	1:53:A:MET:HA	1:53:A:MET:HE3	13	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2582)	1:53:A:MET:HA	1:53:A:MET:HE1	17	0.47
(1,2504)	1:73:A:ARG:HD3	1:166:A:ILE:HG23	15	0.47
(1,2496)	1:140:A:ILE:HD12	1:128:A:ARG:HD3	6	0.47
(1,2477)	1:80:A:LYS:HE3	1:80:A:LYS:HB2	1	0.47
(1,2477)	1:80:A:LYS:HE3	1:80:A:LYS:HB2	12	0.47
(1,2475)	1:80:A:LYS:HE2	1:86:A:LEU:HD12	1	0.47
(1,2475)	1:80:A:LYS:HE2	1:86:A:LEU:HD13	11	0.47
(1,2475)	1:80:A:LYS:HE2	1:86:A:LEU:HD12	12	0.47
(1,2475)	1:80:A:LYS:HE2	1:86:A:LEU:HD11	18	0.47
(1,2475)	1:80:A:LYS:HE2	1:86:A:LEU:HD11	20	0.47
(1,2394)	1:159:A:GLU:HG2	1:155:A:SER:HB2	19	0.47
(1,2385)	1:159:A:GLU:HG3	1:154:A:ALA:HB2	13	0.47
(1,2352)	1:130:A:VAL:HG11	1:133:A:GLU:HG2	13	0.47
(1,2313)	1:168:A:GLN:HG2	1:164:A:ILE:HG23	3	0.47
(1,2266)	1:149:A:MET:HB3	1:138:A:PHE:HA	5	0.47
(1,2166)	1:67:A:LYS:HD3	1:67:A:LYS:HA	17	0.47
(1,2166)	1:67:A:LYS:HD3	1:67:A:LYS:HA	18	0.47
(1,2159)	1:107:A:LYS:HD3	1:107:A:LYS:HB2	18	0.47
(1,2077)	1:182:A:ILE:HG13	1:182:A:ILE:HG23	16	0.47
(1,2030)	1:124:A:LYS:HG3	1:123:A:LYS:HB3	1	0.47
(1,2030)	1:124:A:LYS:HG3	1:123:A:LYS:HB3	7	0.47
(1,2022)	1:93:A:LEU:HD12	1:72:A:VAL:H	14	0.47
(1,2017)	1:167:A:ILE:HG21	1:93:A:LEU:HD11	20	0.47
(1,1977)	1:101:A:LEU:HD13	1:110:A:PHE:HA	9	0.47
(1,1975)	1:101:A:LEU:HD13	1:90:A:GLN:HG2	5	0.47
(1,1970)	1:101:A:LEU:HD13	1:99:A:VAL:HG23	9	0.47
(1,1970)	1:101:A:LEU:HD12	1:99:A:VAL:HG21	13	0.47
(1,1970)	1:101:A:LEU:HD13	1:99:A:VAL:HG22	20	0.47
(1,1957)	1:66:A:LEU:HD12	1:66:A:LEU:HB3	2	0.47
(1,1949)	1:94:A:LEU:HD21	1:69:A:LYS:HA	7	0.47
(1,1891)	1:174:A:LEU:HD22	1:123:A:LYS:HE2	6	0.47
(1,1877)	1:66:A:LEU:HD21	1:44:A:TYR:HA	14	0.47
(1,1866)	1:95:A:THR:HG21	1:72:A:VAL:HA	9	0.47
(1,1866)	1:95:A:THR:HG22	1:72:A:VAL:HA	14	0.47
(1,1866)	1:95:A:THR:HG22	1:72:A:VAL:HA	17	0.47
(1,1866)	1:95:A:THR:HG22	1:72:A:VAL:HA	19	0.47
(1,1864)	1:95:A:THR:HG21	1:72:A:VAL:HB	2	0.47
(1,1815)	1:173:A:THR:HG23	1:176:A:ARG:HB2	14	0.47
(1,1792)	1:122:A:LEU:HD12	1:122:A:LEU:HA	9	0.47
(1,1767)	1:86:A:LEU:HD22	1:86:A:LEU:HB2	16	0.47
(1,1755)	1:99:A:VAL:HG22	1:99:A:VAL:HG13	5	0.47
(1,1747)	1:72:A:VAL:HG21	1:95:A:THR:HG21	9	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1747)	1:72:A:VAL:HG22	1:95:A:THR:HG22	19	0.47
(1,1742)	1:119:A:VAL:HG12	1:110:A:PHE:HE1	1	0.47
(1,1731)	1:31:A:VAL:HG11	1:32:A:ALA:HA	9	0.47
(1,1731)	1:31:A:VAL:HG13	1:32:A:ALA:HA	18	0.47
(1,1698)	1:91:A:ALA:HB2	1:98:A:LEU:HD22	14	0.47
(1,1698)	1:91:A:ALA:HB2	1:98:A:LEU:HD22	17	0.47
(1,1692)	1:111:A:ALA:HB2	1:102:A:GLN:HG3	8	0.47
(1,1691)	1:111:A:ALA:HB1	1:102:A:GLN:HG2	10	0.47
(1,1691)	1:111:A:ALA:HB1	1:102:A:GLN:HG2	12	0.47
(1,1680)	1:130:A:VAL:HG21	1:136:A:GLY:HA2	6	0.47
(1,1604)	1:149:A:MET:HE3	1:138:A:PHE:HA	6	0.47
(1,1577)	1:164:A:ILE:HD13	1:164:A:ILE:HA	6	0.47
(1,1577)	1:164:A:ILE:HD11	1:164:A:ILE:HA	8	0.47
(1,1577)	1:164:A:ILE:HD12	1:164:A:ILE:HA	13	0.47
(1,1577)	1:164:A:ILE:HD11	1:164:A:ILE:HA	18	0.47
(1,1577)	1:164:A:ILE:HD12	1:164:A:ILE:HA	20	0.47
(1,1575)	1:164:A:ILE:HD12	1:161:A:ASN:HB3	15	0.47
(1,1564)	1:97:A:ILE:HD12	1:97:A:ILE:H	14	0.47
(1,1504)	1:163:A:TRP:HE1	1:75:A:GLY:HA2	11	0.47
(1,1482)	1:60:A:MET:H	1:59:A:GLN:HB3	11	0.47
(1,1482)	1:60:A:MET:H	1:59:A:GLN:HB3	13	0.47
(1,1482)	1:60:A:MET:H	1:59:A:GLN:HB3	15	0.47
(1,1482)	1:60:A:MET:H	1:59:A:GLN:HB3	18	0.47
(1,1482)	1:60:A:MET:H	1:59:A:GLN:HB3	19	0.47
(1,1378)	1:41:A:ASN:HD22	1:45:A:THR:HG22	3	0.47
(1,1311)	1:63:A:LYS:H	1:63:A:LYS:HD2	17	0.47
(1,1307)	1:63:A:LYS:H	1:47:A:THR:HG23	1	0.47
(1,1275)	1:163:A:TRP:HE1	1:154:A:ALA:HB2	10	0.47
(1,1258)	1:75:A:GLY:H	1:74:A:ASP:HB3	2	0.47
(1,1208)	1:25:A:GLY:H	1:24:A:ILE:HD13	18	0.47
(1,1088)	1:166:A:ILE:H	1:166:A:ILE:HD11	4	0.47
(1,1061)	1:172:A:ASN:H	1:171:A:ILE:HD13	9	0.47
(1,1061)	1:172:A:ASN:H	1:171:A:ILE:HD13	11	0.47
(1,1012)	1:47:A:THR:H	1:47:A:THR:HG23	1	0.47
(1,1012)	1:47:A:THR:H	1:47:A:THR:HG22	10	0.47
(1,1012)	1:47:A:THR:H	1:47:A:THR:HG22	12	0.47
(1,1012)	1:47:A:THR:H	1:47:A:THR:HG22	20	0.47
(1,962)	1:77:A:VAL:H	1:76:A:SER:HB3	9	0.47
(1,884)	1:129:A:GLU:H	1:128:A:ARG:HB2	15	0.47
(1,852)	1:159:A:GLU:H	1:154:A:ALA:HB1	11	0.47
(1,671)	1:140:A:ILE:H	1:140:A:ILE:HG23	9	0.47
(1,671)	1:140:A:ILE:H	1:140:A:ILE:HG21	10	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,671)	1:140:A:ILE:H	1:140:A:ILE:HG21	12	0.47
(1,671)	1:140:A:ILE:H	1:140:A:ILE:HG22	17	0.47
(1,667)	1:24:A:ILE:H	1:27:A:VAL:HG21	12	0.47
(1,667)	1:24:A:ILE:H	1:27:A:VAL:HG23	13	0.47
(1,627)	1:98:A:LEU:H	1:97:A:ILE:HG12	11	0.47
(1,568)	1:88:A:GLU:H	1:78:A:PHE:HD1	16	0.47
(1,558)	1:93:A:LEU:H	1:91:A:ALA:HB2	2	0.47
(1,558)	1:93:A:LEU:H	1:91:A:ALA:HB1	9	0.47
(1,558)	1:93:A:LEU:H	1:91:A:ALA:HB2	11	0.47
(1,558)	1:93:A:LEU:H	1:91:A:ALA:HB2	17	0.47
(1,542)	1:61:A:PHE:H	1:61:A:PHE:HD1	5	0.47
(1,542)	1:61:A:PHE:H	1:61:A:PHE:HD1	10	0.47
(1,542)	1:61:A:PHE:H	1:61:A:PHE:HD1	14	0.47
(1,542)	1:61:A:PHE:H	1:61:A:PHE:HD1	16	0.47
(1,542)	1:61:A:PHE:H	1:61:A:PHE:HD1	17	0.47
(1,487)	1:40:A:LEU:HG	1:39:A:ARG:HG3	8	0.47
(1,482)	1:19:A:LEU:HG	1:19:A:LEU:HD21	2	0.47
(1,482)	1:19:A:LEU:HG	1:19:A:LEU:HD23	19	0.47
(1,455)	1:151:A:GLU:HB2	1:116:A:LYS:HD2	3	0.47
(1,445)	1:70:A:LYS:HA	1:70:A:LYS:HD2	6	0.47
(1,396)	1:21:A:LYS:HA	1:21:A:LYS:HG3	17	0.47
(1,384)	1:169:A:ASP:HA	1:165:A:GLN:HG3	9	0.47
(1,384)	1:169:A:ASP:HA	1:165:A:GLN:HG3	12	0.47
(1,384)	1:169:A:ASP:HA	1:165:A:GLN:HG3	17	0.47
(1,365)	1:76:A:SER:HB3	1:78:A:PHE:HD1	8	0.47
(1,347)	1:162:A:SER:HB3	1:166:A:ILE:HD13	4	0.47
(1,331)	1:15:A:GLN:HA	1:15:A:GLN:HG3	4	0.47
(1,310)	1:14:A:ALA:HA	1:21:A:LYS:HD3	20	0.47
(1,306)	1:24:A:ILE:HG23	1:25:A:GLY:HA3	6	0.47
(1,302)	1:25:A:GLY:HA2	1:28:A:ASP:HB3	14	0.47
(1,294)	1:22:A:ASP:HB2	1:19:A:LEU:HA	5	0.47
(1,272)	1:87:A:LYS:HE3	1:111:A:ALA:HB2	19	0.47
(1,237)	1:20:A:VAL:HB	1:20:A:VAL:HG11	15	0.47
(1,230)	1:67:A:LYS:HB3	1:67:A:LYS:HE2	5	0.47
(1,230)	1:67:A:LYS:HB3	1:67:A:LYS:HE2	9	0.47
(1,210)	1:70:A:LYS:HD2	1:8:A:VAL:HG23	3	0.47
(1,208)	1:93:A:LEU:HD21	1:73:A:ARG:HB2	18	0.47
(1,177)	1:124:A:LYS:HG3	1:124:A:LYS:HE3	2	0.47
(1,175)	1:67:A:LYS:HG3	1:37:A:LYS:HG2	4	0.47
(1,170)	1:107:A:LYS:HG3	1:46:A:LYS:HA	10	0.47
(1,170)	1:107:A:LYS:HG3	1:46:A:LYS:HA	15	0.47
(1,160)	1:71:A:LEU:HD11	1:74:A:ASP:HA	11	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,148)	1:30:A:LYS:HG2	1:30:A:LYS:HD3	14	0.47
(1,134)	1:77:A:VAL:HG12	1:163:A:TRP:HZ2	9	0.47
(1,116)	1:89:A:VAL:HG12	1:87:A:LYS:HD3	2	0.47
(1,89)	1:127:A:VAL:H	1:127:A:VAL:HG23	7	0.47
(1,62)	1:4:A:LYS:H	1:2:A:MET:HG2	18	0.47
(1,38)	1:138:A:PHE:H	1:164:A:ILE:HD13	2	0.47
(1,38)	1:138:A:PHE:H	1:164:A:ILE:HD11	11	0.47
(1,38)	1:138:A:PHE:H	1:164:A:ILE:HD13	15	0.47
(1,12)	1:140:A:ILE:H	1:127:A:VAL:HB	6	0.47
(2,26)	1:169:A:ASP:H	1:166:A:ILE:O	17	0.46
(2,21)	1:161:A:ASN:H	1:158:A:GLU:O	7	0.46
(2,21)	1:161:A:ASN:H	1:158:A:GLU:O	11	0.46
(2,4)	1:79:A:LEU:H	1:87:A:LYS:O	1	0.46
(1,3521)	1:133:A:GLU:HG2	1:132:A:HIS:HD2	13	0.46
(1,3451)	1:66:A:LEU:HB3	1:44:A:TYR:HD2	2	0.46
(1,3451)	1:66:A:LEU:HB3	1:44:A:TYR:HD2	6	0.46
(1,3417)	1:47:A:THR:HG21	1:63:A:LYS:HE3	17	0.46
(1,3401)	1:126:A:ILE:HG21	1:143:A:GLY:H	18	0.46
(1,3399)	1:125:A:LEU:HD23	1:170:A:THR:HB	6	0.46
(1,3399)	1:125:A:LEU:HD22	1:170:A:THR:HB	19	0.46
(1,3371)	1:67:A:LYS:HD2	1:67:A:LYS:HB3	12	0.46
(1,3371)	1:67:A:LYS:HD2	1:67:A:LYS:HB3	16	0.46
(1,3344)	1:149:A:MET:HE1	1:140:A:ILE:HG13	7	0.46
(1,3325)	1:112:A:SER:HA	1:53:A:MET:HE1	16	0.46
(1,3308)	1:53:A:MET:HE1	1:119:A:VAL:H	15	0.46
(1,3308)	1:53:A:MET:HE2	1:119:A:VAL:H	16	0.46
(1,3308)	1:53:A:MET:HE1	1:119:A:VAL:H	20	0.46
(1,3304)	1:119:A:VAL:HG22	1:110:A:PHE:HZ	10	0.46
(1,3304)	1:119:A:VAL:HG23	1:110:A:PHE:HZ	15	0.46
(1,3304)	1:119:A:VAL:HG22	1:110:A:PHE:HZ	16	0.46
(1,3277)	1:111:A:ALA:HB1	1:100:A:PHE:HD2	14	0.46
(1,3268)	1:163:A:TRP:H	1:164:A:ILE:HD12	5	0.46
(1,3268)	1:163:A:TRP:H	1:164:A:ILE:HD13	9	0.46
(1,3267)	1:167:A:ILE:HD11	1:171:A:ILE:H	1	0.46
(1,3267)	1:167:A:ILE:HD13	1:171:A:ILE:H	2	0.46
(1,3267)	1:167:A:ILE:HD12	1:171:A:ILE:H	12	0.46
(1,3266)	1:52:A:ILE:HD12	1:60:A:MET:H	6	0.46
(1,3236)	1:98:A:LEU:HD21	1:139:A:LEU:HB2	6	0.46
(1,3236)	1:98:A:LEU:HD22	1:139:A:LEU:HB2	13	0.46
(1,3231)	1:86:A:LEU:HD23	1:153:A:HIS:HA	11	0.46
(1,3229)	1:86:A:LEU:HD22	1:153:A:HIS:HE1	20	0.46
(1,3216)	1:15:A:GLN:HB3	1:2:A:MET:HG3	3	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3214)	1:15:A:GLN:HB3	1:2:A:MET:HG2	17	0.46
(1,3198)	1:101:A:LEU:HD22	1:110:A:PHE:HZ	2	0.46
(1,3197)	1:111:A:ALA:HB1	1:118:A:THR:HA	3	0.46
(1,3169)	1:101:A:LEU:HD21	1:108:A:TYR:HA	2	0.46
(1,3169)	1:101:A:LEU:HD21	1:108:A:TYR:HA	6	0.46
(1,3169)	1:101:A:LEU:HD23	1:108:A:TYR:HA	16	0.46
(1,3152)	1:97:A:ILE:HD12	1:65:A:ASP:HB3	4	0.46
(1,3149)	1:47:A:THR:HG22	1:63:A:LYS:HE2	8	0.46
(1,3149)	1:47:A:THR:HG23	1:63:A:LYS:HE2	15	0.46
(1,3092)	1:157:A:LYS:HA	1:157:A:LYS:HE2	7	0.46
(1,3091)	1:55:A:MET:HE2	1:55:A:MET:HA	3	0.46
(1,3091)	1:55:A:MET:HE2	1:55:A:MET:HA	8	0.46
(1,3067)	1:130:A:VAL:HG13	1:130:A:VAL:HA	4	0.46
(1,2826)	1:147:A:PRO:HA	1:140:A:ILE:HG21	2	0.46
(1,2813)	1:157:A:LYS:HA	1:134:A:GLU:HG3	9	0.46
(1,2810)	1:123:A:LYS:HA	1:123:A:LYS:HE2	14	0.46
(1,2794)	1:34:A:TYR:HA	1:38:A:VAL:HG23	12	0.46
(1,2793)	1:120:A:ILE:HD12	1:118:A:THR:HA	13	0.46
(1,2793)	1:120:A:ILE:HD12	1:118:A:THR:HA	18	0.46
(1,2767)	1:36:A:LYS:HG2	1:36:A:LYS:HA	20	0.46
(1,2758)	1:44:A:TYR:HA	1:44:A:TYR:HE2	6	0.46
(1,2758)	1:44:A:TYR:HA	1:44:A:TYR:HE2	10	0.46
(1,2728)	1:127:A:VAL:HA	1:137:A:LEU:HD23	12	0.46
(1,2715)	1:4:A:LYS:HA	1:8:A:VAL:HG12	11	0.46
(1,2712)	1:46:A:LYS:HA	1:107:A:LYS:HB3	16	0.46
(1,2657)	1:108:A:TYR:HA	1:109:A:ILE:HD13	13	0.46
(1,2629)	1:137:A:LEU:HA	1:130:A:VAL:HG21	6	0.46
(1,2567)	1:146:A:ASP:HA	1:147:A:PRO:HG2	17	0.46
(1,2475)	1:80:A:LYS:HE2	1:86:A:LEU:HD13	7	0.46
(1,2475)	1:80:A:LYS:HE2	1:86:A:LEU:HD13	9	0.46
(1,2473)	1:80:A:LYS:HE2	1:86:A:LEU:HD22	12	0.46
(1,2473)	1:80:A:LYS:HE2	1:86:A:LEU:HD23	18	0.46
(1,2440)	1:28:A:ASP:HB3	1:25:A:GLY:HA3	3	0.46
(1,2440)	1:28:A:ASP:HB3	1:25:A:GLY:HA3	17	0.46
(1,2407)	1:38:A:VAL:HG12	1:41:A:ASN:HB3	8	0.46
(1,2394)	1:159:A:GLU:HG2	1:155:A:SER:HB2	7	0.46
(1,2369)	1:134:A:GLU:HG3	1:135:A:LYS:HG2	2	0.46
(1,2327)	1:4:A:LYS:HB2	1:8:A:VAL:HG11	17	0.46
(1,2266)	1:149:A:MET:HB3	1:138:A:PHE:HA	16	0.46
(1,2166)	1:67:A:LYS:HD3	1:67:A:LYS:HA	5	0.46
(1,2166)	1:67:A:LYS:HD3	1:67:A:LYS:HA	13	0.46
(1,2166)	1:67:A:LYS:HD3	1:67:A:LYS:HA	19	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2075)	1:98:A:LEU:HD12	1:100:A:PHE:HZ	5	0.46
(1,2075)	1:98:A:LEU:HD11	1:100:A:PHE:HZ	19	0.46
(1,2075)	1:98:A:LEU:HD11	1:100:A:PHE:HZ	20	0.46
(1,2049)	1:113:A:LEU:HD11	1:113:A:LEU:HA	8	0.46
(1,1977)	1:101:A:LEU:HD12	1:110:A:PHE:HA	14	0.46
(1,1970)	1:101:A:LEU:HD12	1:99:A:VAL:HG21	3	0.46
(1,1970)	1:101:A:LEU:HD12	1:99:A:VAL:HG23	14	0.46
(1,1970)	1:101:A:LEU:HD11	1:99:A:VAL:HG21	19	0.46
(1,1957)	1:66:A:LEU:HD11	1:66:A:LEU:HB3	17	0.46
(1,1950)	1:94:A:LEU:HD23	1:71:A:LEU:HA	18	0.46
(1,1932)	1:94:A:LEU:HD21	1:94:A:LEU:HA	17	0.46
(1,1825)	1:45:A:THR:HG21	1:46:A:LYS:HA	5	0.46
(1,1815)	1:173:A:THR:HG22	1:176:A:ARG:HB2	19	0.46
(1,1794)	1:113:A:LEU:HD23	1:79:A:LEU:HB2	5	0.46
(1,1767)	1:86:A:LEU:HD22	1:86:A:LEU:HB2	4	0.46
(1,1755)	1:99:A:VAL:HG22	1:99:A:VAL:HG12	7	0.46
(1,1750)	1:145:A:THR:HG23	1:145:A:THR:HB	2	0.46
(1,1750)	1:145:A:THR:HG22	1:145:A:THR:HB	5	0.46
(1,1750)	1:145:A:THR:HG21	1:145:A:THR:HB	9	0.46
(1,1750)	1:145:A:THR:HG21	1:145:A:THR:HB	12	0.46
(1,1750)	1:145:A:THR:HG21	1:145:A:THR:HB	18	0.46
(1,1747)	1:72:A:VAL:HG23	1:95:A:THR:HG23	13	0.46
(1,1747)	1:72:A:VAL:HG23	1:95:A:THR:HG22	14	0.46
(1,1742)	1:119:A:VAL:HG13	1:110:A:PHE:HE1	18	0.46
(1,1731)	1:31:A:VAL:HG11	1:32:A:ALA:HA	7	0.46
(1,1731)	1:31:A:VAL:HG13	1:32:A:ALA:HA	10	0.46
(1,1731)	1:31:A:VAL:HG11	1:32:A:ALA:HA	16	0.46
(1,1698)	1:91:A:ALA:HB2	1:98:A:LEU:HD21	11	0.46
(1,1691)	1:111:A:ALA:HB1	1:102:A:GLN:HG2	11	0.46
(1,1691)	1:111:A:ALA:HB1	1:102:A:GLN:HG2	13	0.46
(1,1690)	1:111:A:ALA:HB3	1:102:A:GLN:HB3	5	0.46
(1,1680)	1:130:A:VAL:HG21	1:136:A:GLY:HA2	20	0.46
(1,1666)	1:97:A:ILE:HG22	1:119:A:VAL:HG22	11	0.46
(1,1666)	1:97:A:ILE:HG22	1:119:A:VAL:HG21	20	0.46
(1,1654)	1:140:A:ILE:HG21	1:126:A:ILE:HG13	6	0.46
(1,1636)	1:126:A:ILE:HD12	1:140:A:ILE:HG12	18	0.46
(1,1614)	1:171:A:ILE:HG22	1:174:A:LEU:HD13	19	0.46
(1,1594)	1:55:A:MET:HE3	1:120:A:ILE:HA	15	0.46
(1,1567)	1:171:A:ILE:HD11	1:174:A:LEU:HD11	7	0.46
(1,1482)	1:60:A:MET:H	1:59:A:GLN:HB3	2	0.46
(1,1482)	1:60:A:MET:H	1:59:A:GLN:HB3	8	0.46
(1,1426)	1:181:A:GLY:H	1:180:A:GLU:HB3	9	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1307)	1:63:A:LYS:H	1:47:A:THR:HG21	11	0.46
(1,1301)	1:79:A:LEU:H	1:78:A:PHE:HD2	12	0.46
(1,1258)	1:75:A:GLY:H	1:74:A:ASP:HB3	10	0.46
(1,1061)	1:172:A:ASN:H	1:171:A:ILE:HD13	10	0.46
(1,1061)	1:172:A:ASN:H	1:171:A:ILE:HD13	15	0.46
(1,1012)	1:47:A:THR:H	1:47:A:THR:HG21	4	0.46
(1,1012)	1:47:A:THR:H	1:47:A:THR:HG22	5	0.46
(1,1012)	1:47:A:THR:H	1:47:A:THR:HG23	9	0.46
(1,1012)	1:47:A:THR:H	1:47:A:THR:HG23	15	0.46
(1,1001)	1:119:A:VAL:H	1:119:A:VAL:HG21	6	0.46
(1,1001)	1:119:A:VAL:H	1:119:A:VAL:HG23	19	0.46
(1,912)	1:50:A:LYS:H	1:50:A:LYS:HB3	8	0.46
(1,884)	1:129:A:GLU:H	1:128:A:ARG:HB2	1	0.46
(1,884)	1:129:A:GLU:H	1:128:A:ARG:HB2	3	0.46
(1,884)	1:129:A:GLU:H	1:128:A:ARG:HB2	11	0.46
(1,852)	1:159:A:GLU:H	1:154:A:ALA:HB1	2	0.46
(1,852)	1:159:A:GLU:H	1:154:A:ALA:HB3	7	0.46
(1,773)	1:42:A:GLU:H	1:42:A:GLU:HG3	5	0.46
(1,671)	1:140:A:ILE:H	1:140:A:ILE:HG21	16	0.46
(1,667)	1:24:A:ILE:H	1:27:A:VAL:HG21	4	0.46
(1,627)	1:98:A:LEU:H	1:97:A:ILE:HG12	5	0.46
(1,611)	1:81:A:ASN:H	1:86:A:LEU:HD21	19	0.46
(1,568)	1:88:A:GLU:H	1:78:A:PHE:HD2	4	0.46
(1,542)	1:61:A:PHE:H	1:61:A:PHE:HD1	4	0.46
(1,542)	1:61:A:PHE:H	1:61:A:PHE:HD1	15	0.46
(1,542)	1:61:A:PHE:H	1:61:A:PHE:HD1	19	0.46
(1,499)	1:36:A:LYS:HD3	1:36:A:LYS:HA	19	0.46
(1,487)	1:40:A:LEU:HG	1:39:A:ARG:HG3	16	0.46
(1,472)	1:135:A:LYS:HE2	1:135:A:LYS:HB3	8	0.46
(1,465)	1:38:A:VAL:HG22	1:37:A:LYS:HE3	3	0.46
(1,465)	1:38:A:VAL:HG23	1:37:A:LYS:HE2	7	0.46
(1,458)	1:15:A:GLN:HB3	1:4:A:LYS:HE3	5	0.46
(1,412)	1:21:A:LYS:HD2	1:21:A:LYS:HG3	12	0.46
(1,412)	1:30:A:LYS:HG3	1:30:A:LYS:HD2	20	0.46
(1,384)	1:169:A:ASP:HA	1:165:A:GLN:HG3	11	0.46
(1,370)	1:16:A:SER:HB3	1:4:A:LYS:HG2	17	0.46
(1,369)	1:19:A:LEU:HB2	1:18:A:SER:HB2	19	0.46
(1,363)	1:37:A:LYS:HA	1:37:A:LYS:HE3	4	0.46
(1,349)	1:8:A:VAL:HA	1:8:A:VAL:HG13	13	0.46
(1,337)	1:184:A:SER:HA	1:185:A:GLU:HB3	19	0.46
(1,315)	1:82:A:ALA:HA	1:116:A:LYS:HG3	8	0.46
(1,306)	1:24:A:ILE:HG23	1:25:A:GLY:HA3	17	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,294)	1:22:A:ASP:HB2	1:19:A:LEU:HA	8	0.46
(1,293)	1:67:A:LYS:HE3	1:64:A:GLU:HA	1	0.46
(1,277)	1:157:A:LYS:HE3	1:134:A:GLU:HB2	9	0.46
(1,272)	1:87:A:LYS:HE3	1:111:A:ALA:HB1	13	0.46
(1,269)	1:5:A:ASP:HB2	1:8:A:VAL:HG22	3	0.46
(1,253)	1:115:A:GLN:HG2	1:113:A:LEU:HB2	20	0.46
(1,237)	1:20:A:VAL:HG21	1:20:A:VAL:HB	8	0.46
(1,237)	1:20:A:VAL:HG21	1:20:A:VAL:HB	12	0.46
(1,237)	1:20:A:VAL:HB	1:20:A:VAL:HG11	17	0.46
(1,237)	1:20:A:VAL:HG23	1:20:A:VAL:HB	19	0.46
(1,171)	1:107:A:LYS:HG3	1:47:A:THR:HA	17	0.46
(1,161)	1:71:A:LEU:HD12	1:93:A:LEU:H	20	0.46
(1,160)	1:71:A:LEU:HD11	1:74:A:ASP:HA	9	0.46
(1,160)	1:71:A:LEU:HD12	1:74:A:ASP:HA	13	0.46
(1,154)	1:71:A:LEU:HD11	1:74:A:ASP:HB2	19	0.46
(1,148)	1:30:A:LYS:HG2	1:30:A:LYS:HD3	7	0.46
(1,148)	1:30:A:LYS:HG2	1:30:A:LYS:HD3	16	0.46
(1,142)	1:56:A:LYS:HG2	1:56:A:LYS:HD2	3	0.46
(1,137)	1:67:A:LYS:HG2	1:68:A:ARG:HB2	14	0.46
(1,134)	1:77:A:VAL:HG12	1:163:A:TRP:HZ2	3	0.46
(1,134)	1:77:A:VAL:HG13	1:163:A:TRP:HZ2	5	0.46
(1,124)	1:45:A:THR:HG23	1:46:A:LYS:HB3	7	0.46
(1,124)	1:45:A:THR:HG22	1:46:A:LYS:HB3	11	0.46
(1,116)	1:89:A:VAL:HG11	1:87:A:LYS:HD3	1	0.46
(1,116)	1:89:A:VAL:HG12	1:87:A:LYS:HD3	6	0.46
(1,101)	1:164:A:ILE:HD12	1:129:A:GLU:HB3	16	0.46
(1,89)	1:127:A:VAL:H	1:127:A:VAL:HG22	15	0.46
(1,62)	1:4:A:LYS:H	1:5:A:ASP:HB2	1	0.46
(1,47)	1:175:A:ASN:H	1:173:A:THR:HG22	20	0.46
(1,44)	1:117:A:SER:H	1:116:A:LYS:HD3	8	0.46
(1,42)	1:76:A:SER:H	1:77:A:VAL:HG13	13	0.46
(1,38)	1:138:A:PHE:H	1:164:A:ILE:HD11	3	0.46
(1,38)	1:138:A:PHE:H	1:164:A:ILE:HD13	8	0.46
(1,33)	1:107:A:LYS:H	1:106:A:GLN:HG3	14	0.46
(1,14)	1:128:A:ARG:H	1:127:A:VAL:HB	13	0.46
(1,5)	1:120:A:ILE:H	1:97:A:ILE:HG22	9	0.46
(2,26)	1:169:A:ASP:H	1:166:A:ILE:O	13	0.45
(2,21)	1:161:A:ASN:H	1:158:A:GLU:O	15	0.45
(2,4)	1:79:A:LEU:H	1:87:A:LYS:O	8	0.45
(2,4)	1:79:A:LEU:H	1:87:A:LYS:O	13	0.45
(1,3514)	1:35:A:GLU:HA	1:34:A:TYR:HE2	2	0.45
(1,3451)	1:66:A:LEU:HB3	1:44:A:TYR:HD2	14	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3401)	1:126:A:ILE:HG22	1:143:A:GLY:H	10	0.45
(1,3401)	1:126:A:ILE:HG22	1:143:A:GLY:H	12	0.45
(1,3399)	1:125:A:LEU:HD22	1:170:A:THR:HB	1	0.45
(1,3399)	1:125:A:LEU:HD22	1:170:A:THR:HB	20	0.45
(1,3369)	1:174:A:LEU:HD21	1:95:A:THR:HG21	11	0.45
(1,3369)	1:174:A:LEU:HD23	1:95:A:THR:HG21	13	0.45
(1,3313)	1:109:A:ILE:HD11	1:104:A:LYS:HA	15	0.45
(1,3311)	1:102:A:GLN:HG3	1:109:A:ILE:HD11	9	0.45
(1,3304)	1:119:A:VAL:HG21	1:110:A:PHE:HZ	2	0.45
(1,3304)	1:119:A:VAL:HG23	1:110:A:PHE:HZ	4	0.45
(1,3304)	1:119:A:VAL:HG22	1:110:A:PHE:HZ	5	0.45
(1,3304)	1:119:A:VAL:HG21	1:110:A:PHE:HZ	13	0.45
(1,3304)	1:119:A:VAL:HG21	1:110:A:PHE:HZ	18	0.45
(1,3294)	1:65:A:ASP:HA	1:61:A:PHE:HE2	3	0.45
(1,3268)	1:163:A:TRP:H	1:164:A:ILE:HD12	8	0.45
(1,3268)	1:163:A:TRP:H	1:164:A:ILE:HD11	18	0.45
(1,3267)	1:167:A:ILE:HD13	1:171:A:ILE:H	5	0.45
(1,3267)	1:167:A:ILE:HD12	1:171:A:ILE:H	6	0.45
(1,3267)	1:167:A:ILE:HD11	1:171:A:ILE:H	7	0.45
(1,3264)	1:20:A:VAL:HG23	1:27:A:VAL:HA	13	0.45
(1,3230)	1:86:A:LEU:HD22	1:153:A:HIS:HD2	6	0.45
(1,3221)	1:152:A:VAL:HG21	1:150:A:VAL:H	4	0.45
(1,3221)	1:152:A:VAL:HG21	1:150:A:VAL:H	16	0.45
(1,3215)	1:15:A:GLN:HB2	1:2:A:MET:HG3	1	0.45
(1,3198)	1:101:A:LEU:HD22	1:110:A:PHE:HZ	13	0.45
(1,3197)	1:111:A:ALA:HB1	1:118:A:THR:HA	1	0.45
(1,3197)	1:111:A:ALA:HB2	1:118:A:THR:HA	4	0.45
(1,3185)	1:142:A:MET:HA	1:147:A:PRO:HB2	18	0.45
(1,3176)	1:159:A:GLU:HG3	1:155:A:SER:HB2	17	0.45
(1,3169)	1:101:A:LEU:HD22	1:108:A:TYR:HA	7	0.45
(1,3169)	1:101:A:LEU:HD22	1:108:A:TYR:HA	18	0.45
(1,3156)	1:142:A:MET:HE1	1:142:A:MET:HA	7	0.45
(1,3156)	1:142:A:MET:HE2	1:142:A:MET:HA	20	0.45
(1,3116)	1:87:A:LYS:HE3	1:113:A:LEU:HD23	4	0.45
(1,3067)	1:130:A:VAL:HG11	1:130:A:VAL:HA	18	0.45
(1,3053)	1:55:A:MET:HE1	1:119:A:VAL:H	6	0.45
(1,3034)	1:94:A:LEU:HD22	1:97:A:ILE:HG12	19	0.45
(1,3021)	1:140:A:ILE:HD13	1:138:A:PHE:HE2	15	0.45
(1,3021)	1:140:A:ILE:HD11	1:138:A:PHE:HE2	20	0.45
(1,2904)	1:140:A:ILE:HD11	1:128:A:ARG:HB3	11	0.45
(1,2826)	1:147:A:PRO:HA	1:140:A:ILE:HG22	11	0.45
(1,2794)	1:34:A:TYR:HA	1:38:A:VAL:HG21	4	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2767)	1:36:A:LYS:HG2	1:36:A:LYS:HA	3	0.45
(1,2758)	1:44:A:TYR:HA	1:44:A:TYR:HE2	2	0.45
(1,2758)	1:44:A:TYR:HA	1:44:A:TYR:HE2	4	0.45
(1,2758)	1:44:A:TYR:HA	1:44:A:TYR:HE1	13	0.45
(1,2728)	1:127:A:VAL:HA	1:137:A:LEU:HD22	11	0.45
(1,2712)	1:46:A:LYS:HA	1:107:A:LYS:HB3	18	0.45
(1,2669)	1:10:A:GLN:HA	1:10:A:GLN:HB2	7	0.45
(1,2669)	1:10:A:GLN:HA	1:10:A:GLN:HB2	15	0.45
(1,2657)	1:108:A:TYR:HA	1:109:A:ILE:HD12	17	0.45
(1,2599)	1:69:A:LYS:HA	1:69:A:LYS:HE2	8	0.45
(1,2599)	1:69:A:LYS:HA	1:69:A:LYS:HE2	11	0.45
(1,2599)	1:69:A:LYS:HA	1:69:A:LYS:HE2	17	0.45
(1,2567)	1:146:A:ASP:HA	1:147:A:PRO:HG2	13	0.45
(1,2567)	1:146:A:ASP:HA	1:147:A:PRO:HG2	15	0.45
(1,2567)	1:146:A:ASP:HA	1:147:A:PRO:HG2	16	0.45
(1,2477)	1:80:A:LYS:HE3	1:80:A:LYS:HB2	3	0.45
(1,2477)	1:80:A:LYS:HE3	1:80:A:LYS:HB2	18	0.45
(1,2475)	1:80:A:LYS:HE2	1:86:A:LEU:HD11	10	0.45
(1,2440)	1:28:A:ASP:HB3	1:25:A:GLY:HA3	6	0.45
(1,2424)	1:105:A:ASP:HB3	1:104:A:LYS:HG3	9	0.45
(1,2407)	1:38:A:VAL:HG12	1:41:A:ASN:HB3	16	0.45
(1,2401)	1:34:A:TYR:HB3	1:31:A:VAL:HG11	7	0.45
(1,2384)	1:35:A:GLU:HG3	1:38:A:VAL:HG21	20	0.45
(1,2383)	1:35:A:GLU:HG3	1:38:A:VAL:HG12	1	0.45
(1,2369)	1:134:A:GLU:HG3	1:135:A:LYS:HG2	3	0.45
(1,2345)	1:115:A:GLN:HB2	1:115:A:GLN:HG2	12	0.45
(1,2279)	1:123:A:LYS:HB2	1:174:A:LEU:HD12	18	0.45
(1,2266)	1:149:A:MET:HB3	1:138:A:PHE:HA	15	0.45
(1,2251)	1:11:A:GLU:HB2	1:19:A:LEU:HD13	4	0.45
(1,2167)	1:67:A:LYS:HD3	1:67:A:LYS:H	12	0.45
(1,2166)	1:67:A:LYS:HD3	1:67:A:LYS:HA	4	0.45
(1,2166)	1:67:A:LYS:HD3	1:67:A:LYS:HA	7	0.45
(1,2159)	1:107:A:LYS:HD3	1:107:A:LYS:HB2	14	0.45
(1,2075)	1:98:A:LEU:HD11	1:100:A:PHE:HZ	1	0.45
(1,2030)	1:124:A:LYS:HG3	1:123:A:LYS:HB3	3	0.45
(1,2030)	1:124:A:LYS:HG3	1:123:A:LYS:HB3	18	0.45
(1,1977)	1:101:A:LEU:HD13	1:110:A:PHE:HA	1	0.45
(1,1977)	1:101:A:LEU:HD12	1:110:A:PHE:HA	8	0.45
(1,1958)	1:66:A:LEU:HD11	1:44:A:TYR:HB2	11	0.45
(1,1957)	1:66:A:LEU:HD12	1:66:A:LEU:HB3	5	0.45
(1,1866)	1:95:A:THR:HG23	1:72:A:VAL:HA	1	0.45
(1,1843)	1:40:A:LEU:HD22	1:44:A:TYR:HA	12	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1815)	1:173:A:THR:HG22	1:176:A:ARG:HB2	8	0.45
(1,1792)	1:122:A:LEU:HD11	1:122:A:LEU:HA	3	0.45
(1,1792)	1:122:A:LEU:HD13	1:122:A:LEU:HA	11	0.45
(1,1792)	1:122:A:LEU:HD12	1:122:A:LEU:HA	14	0.45
(1,1767)	1:86:A:LEU:HD23	1:86:A:LEU:HB2	10	0.45
(1,1750)	1:145:A:THR:HG23	1:145:A:THR:HB	4	0.45
(1,1750)	1:145:A:THR:HG21	1:145:A:THR:HB	8	0.45
(1,1750)	1:145:A:THR:HG22	1:145:A:THR:HB	10	0.45
(1,1750)	1:145:A:THR:HG22	1:145:A:THR:HB	14	0.45
(1,1750)	1:145:A:THR:HG23	1:145:A:THR:HB	16	0.45
(1,1747)	1:72:A:VAL:HG23	1:95:A:THR:HG22	7	0.45
(1,1747)	1:72:A:VAL:HG23	1:95:A:THR:HG22	17	0.45
(1,1731)	1:31:A:VAL:HG13	1:32:A:ALA:HA	4	0.45
(1,1731)	1:31:A:VAL:HG13	1:32:A:ALA:HA	19	0.45
(1,1731)	1:31:A:VAL:HG13	1:32:A:ALA:HA	20	0.45
(1,1710)	1:89:A:VAL:HG23	1:79:A:LEU:HG	14	0.45
(1,1698)	1:91:A:ALA:HB1	1:98:A:LEU:HD21	12	0.45
(1,1692)	1:111:A:ALA:HB3	1:102:A:GLN:HG3	17	0.45
(1,1691)	1:111:A:ALA:HB3	1:102:A:GLN:HG2	1	0.45
(1,1691)	1:111:A:ALA:HB1	1:102:A:GLN:HG2	18	0.45
(1,1690)	1:111:A:ALA:HB2	1:102:A:GLN:HB3	15	0.45
(1,1640)	1:82:A:ALA:HB3	1:81:A:ASN:HB3	9	0.45
(1,1614)	1:171:A:ILE:HG21	1:174:A:LEU:HD13	5	0.45
(1,1594)	1:55:A:MET:HE1	1:120:A:ILE:HA	11	0.45
(1,1583)	1:164:A:ILE:HG22	1:129:A:GLU:HG3	13	0.45
(1,1568)	1:171:A:ILE:HD12	1:93:A:LEU:HD13	1	0.45
(1,1546)	1:120:A:ILE:HD13	1:98:A:LEU:HB2	20	0.45
(1,1426)	1:181:A:GLY:H	1:180:A:GLU:HB3	14	0.45
(1,1342)	1:100:A:PHE:H	1:98:A:LEU:HD21	4	0.45
(1,1342)	1:100:A:PHE:H	1:98:A:LEU:HD22	10	0.45
(1,1275)	1:163:A:TRP:HE1	1:154:A:ALA:HB1	1	0.45
(1,1258)	1:75:A:GLY:H	1:74:A:ASP:HB3	13	0.45
(1,1258)	1:75:A:GLY:H	1:74:A:ASP:HB3	15	0.45
(1,1216)	1:118:A:THR:H	1:117:A:SER:HB2	20	0.45
(1,1088)	1:166:A:ILE:H	1:166:A:ILE:HD11	14	0.45
(1,1075)	1:162:A:SER:H	1:161:A:ASN:HB2	13	0.45
(1,1061)	1:172:A:ASN:H	1:171:A:ILE:HD13	14	0.45
(1,1061)	1:172:A:ASN:H	1:171:A:ILE:HD11	16	0.45
(1,1042)	1:70:A:LYS:H	1:69:A:LYS:HB3	19	0.45
(1,1001)	1:119:A:VAL:H	1:119:A:VAL:HG21	7	0.45
(1,842)	1:110:A:PHE:H	1:109:A:ILE:HD12	20	0.45
(1,823)	1:86:A:LEU:H	1:85:A:ARG:HB2	7	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,823)	1:86:A:LEU:H	1:85:A:ARG:HB2	13	0.45
(1,823)	1:86:A:LEU:H	1:85:A:ARG:HB2	17	0.45
(1,701)	1:137:A:LEU:H	1:130:A:VAL:HG23	19	0.45
(1,671)	1:140:A:ILE:H	1:140:A:ILE:HG21	2	0.45
(1,671)	1:140:A:ILE:H	1:140:A:ILE:HG22	8	0.45
(1,671)	1:140:A:ILE:H	1:140:A:ILE:HG23	14	0.45
(1,671)	1:140:A:ILE:H	1:140:A:ILE:HG22	19	0.45
(1,667)	1:24:A:ILE:H	1:27:A:VAL:HG21	18	0.45
(1,627)	1:98:A:LEU:H	1:97:A:ILE:HG12	14	0.45
(1,558)	1:93:A:LEU:H	1:91:A:ALA:HB3	18	0.45
(1,542)	1:61:A:PHE:H	1:61:A:PHE:HD1	6	0.45
(1,542)	1:61:A:PHE:H	1:61:A:PHE:HD1	12	0.45
(1,497)	1:139:A:LEU:HA	1:128:A:ARG:HB2	6	0.45
(1,486)	1:21:A:LYS:HD3	1:30:A:LYS:HA	12	0.45
(1,481)	1:149:A:MET:HG3	1:138:A:PHE:HZ	8	0.45
(1,475)	1:109:A:ILE:HD13	1:51:A:SER:HB3	12	0.45
(1,445)	1:70:A:LYS:HA	1:70:A:LYS:HD2	15	0.45
(1,416)	1:16:A:SER:HA	1:8:A:VAL:HG11	6	0.45
(1,412)	1:30:A:LYS:HG3	1:30:A:LYS:HD2	1	0.45
(1,412)	1:30:A:LYS:HG3	1:30:A:LYS:HD2	10	0.45
(1,396)	1:21:A:LYS:HA	1:21:A:LYS:HG2	6	0.45
(1,373)	1:30:A:LYS:HB2	1:33:A:SER:HB2	10	0.45
(1,373)	1:30:A:LYS:HB2	1:33:A:SER:HB2	13	0.45
(1,369)	1:19:A:LEU:HB2	1:18:A:SER:HB2	3	0.45
(1,347)	1:162:A:SER:HB3	1:166:A:ILE:HD13	9	0.45
(1,339)	1:157:A:LYS:HA	1:134:A:GLU:HB2	17	0.45
(1,306)	1:24:A:ILE:HG23	1:25:A:GLY:HA3	1	0.45
(1,306)	1:24:A:ILE:HG22	1:25:A:GLY:HA3	5	0.45
(1,302)	1:25:A:GLY:HA2	1:28:A:ASP:HB3	4	0.45
(1,302)	1:25:A:GLY:HA2	1:28:A:ASP:HB3	8	0.45
(1,293)	1:67:A:LYS:HE3	1:64:A:GLU:HA	17	0.45
(1,272)	1:87:A:LYS:HE3	1:111:A:ALA:HB1	9	0.45
(1,272)	1:87:A:LYS:HE3	1:111:A:ALA:HB1	10	0.45
(1,253)	1:115:A:GLN:HG2	1:113:A:LEU:HB2	6	0.45
(1,237)	1:20:A:VAL:HG23	1:20:A:VAL:HB	11	0.45
(1,237)	1:20:A:VAL:HB	1:20:A:VAL:HG13	20	0.45
(1,230)	1:67:A:LYS:HB3	1:67:A:LYS:HE2	12	0.45
(1,230)	1:67:A:LYS:HB3	1:67:A:LYS:HE2	16	0.45
(1,229)	1:30:A:LYS:HB2	1:27:A:VAL:HG22	19	0.45
(1,161)	1:71:A:LEU:HD12	1:93:A:LEU:H	11	0.45
(1,160)	1:71:A:LEU:HD11	1:74:A:ASP:HA	3	0.45
(1,148)	1:30:A:LYS:HG2	1:30:A:LYS:HD3	3	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,148)	1:30:A:LYS:HG2	1:30:A:LYS:HD3	4	0.45
(1,148)	1:30:A:LYS:HG2	1:30:A:LYS:HD3	18	0.45
(1,125)	1:62:A:ALA:HB1	1:64:A:GLU:HG3	8	0.45
(1,116)	1:89:A:VAL:HG11	1:87:A:LYS:HD3	10	0.45
(1,116)	1:89:A:VAL:HG12	1:87:A:LYS:HD3	14	0.45
(1,89)	1:127:A:VAL:H	1:127:A:VAL:HG23	1	0.45
(1,46)	1:175:A:ASN:H	1:174:A:LEU:HG	12	0.45
(1,38)	1:138:A:PHE:H	1:164:A:ILE:HD13	14	0.45
(1,38)	1:138:A:PHE:H	1:164:A:ILE:HD13	19	0.45
(1,37)	1:169:A:ASP:H	1:167:A:ILE:HD12	14	0.45
(1,33)	1:107:A:LYS:H	1:106:A:GLN:HG3	11	0.45
(1,30)	1:139:A:LEU:H	1:139:A:LEU:HD22	19	0.45
(1,14)	1:128:A:ARG:H	1:127:A:VAL:HB	6	0.45
(1,14)	1:128:A:ARG:H	1:127:A:VAL:HB	11	0.45
(1,14)	1:128:A:ARG:H	1:127:A:VAL:HB	20	0.45
(1,3501)	1:86:A:LEU:HB2	1:78:A:PHE:HD2	10	0.44
(1,3401)	1:126:A:ILE:HG22	1:143:A:GLY:H	3	0.44
(1,3399)	1:125:A:LEU:HD22	1:170:A:THR:HB	7	0.44
(1,3344)	1:149:A:MET:HE3	1:140:A:ILE:HG13	14	0.44
(1,3313)	1:109:A:ILE:HD12	1:104:A:LYS:HA	3	0.44
(1,3308)	1:53:A:MET:HE2	1:119:A:VAL:H	10	0.44
(1,3304)	1:119:A:VAL:HG21	1:110:A:PHE:HZ	17	0.44
(1,3294)	1:65:A:ASP:HA	1:61:A:PHE:HE2	4	0.44
(1,3294)	1:65:A:ASP:HA	1:61:A:PHE:HE2	13	0.44
(1,3277)	1:111:A:ALA:HB2	1:100:A:PHE:HD2	11	0.44
(1,3268)	1:163:A:TRP:H	1:164:A:ILE:HD13	6	0.44
(1,3268)	1:163:A:TRP:H	1:164:A:ILE:HD13	12	0.44
(1,3268)	1:163:A:TRP:H	1:164:A:ILE:HD12	13	0.44
(1,3268)	1:163:A:TRP:H	1:164:A:ILE:HD12	15	0.44
(1,3268)	1:163:A:TRP:H	1:164:A:ILE:HD13	17	0.44
(1,3267)	1:167:A:ILE:HD13	1:171:A:ILE:H	10	0.44
(1,3267)	1:167:A:ILE:HD13	1:171:A:ILE:H	18	0.44
(1,3242)	1:113:A:LEU:HD12	1:81:A:ASN:H	11	0.44
(1,3237)	1:98:A:LEU:HD22	1:120:A:ILE:HG12	4	0.44
(1,3237)	1:98:A:LEU:HD22	1:120:A:ILE:HG12	5	0.44
(1,3237)	1:98:A:LEU:HD23	1:120:A:ILE:HG12	8	0.44
(1,3230)	1:86:A:LEU:HD21	1:153:A:HIS:HD2	1	0.44
(1,3229)	1:86:A:LEU:HD23	1:153:A:HIS:HE1	11	0.44
(1,3224)	1:79:A:LEU:H	1:79:A:LEU:HD22	20	0.44
(1,3221)	1:152:A:VAL:HG21	1:150:A:VAL:H	11	0.44
(1,3221)	1:152:A:VAL:HG22	1:150:A:VAL:H	19	0.44
(1,3214)	1:15:A:GLN:HB3	1:2:A:MET:HG2	15	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3198)	1:101:A:LEU:HD22	1:110:A:PHE:HZ	3	0.44
(1,3198)	1:101:A:LEU:HD21	1:110:A:PHE:HZ	17	0.44
(1,3198)	1:101:A:LEU:HD23	1:110:A:PHE:HZ	19	0.44
(1,3198)	1:101:A:LEU:HD21	1:110:A:PHE:HZ	20	0.44
(1,3197)	1:111:A:ALA:HB3	1:118:A:THR:HA	19	0.44
(1,3185)	1:142:A:MET:HA	1:147:A:PRO:HB2	3	0.44
(1,3185)	1:142:A:MET:HA	1:147:A:PRO:HB2	8	0.44
(1,3185)	1:142:A:MET:HA	1:147:A:PRO:HB2	11	0.44
(1,3185)	1:142:A:MET:HA	1:147:A:PRO:HB2	14	0.44
(1,3169)	1:101:A:LEU:HD23	1:108:A:TYR:HA	12	0.44
(1,3116)	1:87:A:LYS:HE3	1:113:A:LEU:HD21	18	0.44
(1,3094)	1:66:A:LEU:HB3	1:61:A:PHE:HE1	15	0.44
(1,3091)	1:55:A:MET:HE3	1:55:A:MET:HA	14	0.44
(1,3091)	1:55:A:MET:HE3	1:55:A:MET:HA	17	0.44
(1,3053)	1:55:A:MET:HE2	1:119:A:VAL:H	2	0.44
(1,3047)	1:54:A:ARG:HA	1:53:A:MET:HE3	8	0.44
(1,2975)	1:102:A:GLN:HG2	1:109:A:ILE:HD12	1	0.44
(1,2959)	1:110:A:PHE:HB2	1:119:A:VAL:HG13	8	0.44
(1,2951)	1:144:A:MET:HE3	1:144:A:MET:HA	11	0.44
(1,2924)	1:166:A:ILE:HD13	1:163:A:TRP:HA	13	0.44
(1,2924)	1:166:A:ILE:HD12	1:163:A:TRP:HA	18	0.44
(1,2837)	1:141:A:SER:HB2	1:144:A:MET:HE3	15	0.44
(1,2832)	1:119:A:VAL:HA	1:120:A:ILE:HD13	9	0.44
(1,2826)	1:147:A:PRO:HA	1:140:A:ILE:HG21	3	0.44
(1,2826)	1:147:A:PRO:HA	1:140:A:ILE:HG23	6	0.44
(1,2794)	1:34:A:TYR:HA	1:38:A:VAL:HG23	10	0.44
(1,2793)	1:120:A:ILE:HD12	1:118:A:THR:HA	11	0.44
(1,2758)	1:44:A:TYR:HA	1:44:A:TYR:HE1	7	0.44
(1,2758)	1:44:A:TYR:HA	1:44:A:TYR:HE2	8	0.44
(1,2758)	1:44:A:TYR:HA	1:44:A:TYR:HE2	11	0.44
(1,2758)	1:44:A:TYR:HA	1:44:A:TYR:HE2	18	0.44
(1,2753)	1:155:A:SER:HA	1:78:A:PHE:HD2	17	0.44
(1,2721)	1:61:A:PHE:HA	1:61:A:PHE:HE2	3	0.44
(1,2696)	1:4:A:LYS:HA	1:4:A:LYS:HD2	1	0.44
(1,2669)	1:10:A:GLN:HA	1:10:A:GLN:HB2	18	0.44
(1,2669)	1:10:A:GLN:HA	1:10:A:GLN:HB2	19	0.44
(1,2645)	1:142:A:MET:HA	1:147:A:PRO:HG2	13	0.44
(1,2599)	1:69:A:LYS:HA	1:69:A:LYS:HE2	16	0.44
(1,2582)	1:53:A:MET:HA	1:53:A:MET:HE1	4	0.44
(1,2582)	1:53:A:MET:HA	1:53:A:MET:HE1	16	0.44
(1,2567)	1:146:A:ASP:HA	1:147:A:PRO:HG2	5	0.44
(1,2567)	1:146:A:ASP:HA	1:147:A:PRO:HG2	9	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2541)	1:136:A:GLY:HA2	1:130:A:VAL:HB	16	0.44
(1,2477)	1:80:A:LYS:HE3	1:80:A:LYS:HB2	5	0.44
(1,2477)	1:80:A:LYS:HE3	1:80:A:LYS:HB2	8	0.44
(1,2477)	1:80:A:LYS:HE3	1:80:A:LYS:HB2	9	0.44
(1,2477)	1:80:A:LYS:HE3	1:80:A:LYS:HB2	13	0.44
(1,2475)	1:80:A:LYS:HE2	1:86:A:LEU:HD11	13	0.44
(1,2469)	1:22:A:ASP:HB2	1:24:A:ILE:HG12	20	0.44
(1,2440)	1:28:A:ASP:HB3	1:25:A:GLY:HA3	8	0.44
(1,2440)	1:28:A:ASP:HB3	1:25:A:GLY:HA3	10	0.44
(1,2440)	1:28:A:ASP:HB3	1:25:A:GLY:HA3	16	0.44
(1,2440)	1:28:A:ASP:HB3	1:25:A:GLY:HA3	19	0.44
(1,2407)	1:38:A:VAL:HG12	1:41:A:ASN:HB3	17	0.44
(1,2401)	1:34:A:TYR:HB3	1:31:A:VAL:HG13	19	0.44
(1,2384)	1:35:A:GLU:HG3	1:38:A:VAL:HG23	8	0.44
(1,2384)	1:35:A:GLU:HG3	1:38:A:VAL:HG22	10	0.44
(1,2383)	1:35:A:GLU:HG3	1:38:A:VAL:HG12	19	0.44
(1,2369)	1:134:A:GLU:HG3	1:135:A:LYS:HG2	5	0.44
(1,2249)	1:53:A:MET:HG2	1:119:A:VAL:HG21	20	0.44
(1,2222)	1:154:A:ALA:HB2	1:159:A:GLU:HB2	12	0.44
(1,2166)	1:67:A:LYS:HD3	1:67:A:LYS:HA	2	0.44
(1,2166)	1:67:A:LYS:HD3	1:67:A:LYS:HA	10	0.44
(1,2166)	1:67:A:LYS:HD3	1:67:A:LYS:HA	14	0.44
(1,2166)	1:67:A:LYS:HD3	1:67:A:LYS:HA	15	0.44
(1,2072)	1:98:A:LEU:HD13	1:93:A:LEU:HD22	20	0.44
(1,2049)	1:113:A:LEU:HD12	1:113:A:LEU:HA	11	0.44
(1,2049)	1:113:A:LEU:HD13	1:113:A:LEU:HA	12	0.44
(1,2030)	1:124:A:LYS:HG3	1:123:A:LYS:HB3	17	0.44
(1,1970)	1:101:A:LEU:HD12	1:99:A:VAL:HG21	12	0.44
(1,1970)	1:101:A:LEU:HD11	1:99:A:VAL:HG21	16	0.44
(1,1957)	1:66:A:LEU:HD13	1:66:A:LEU:HB3	3	0.44
(1,1957)	1:66:A:LEU:HD13	1:66:A:LEU:HB3	18	0.44
(1,1949)	1:94:A:LEU:HD23	1:69:A:LYS:HA	3	0.44
(1,1946)	1:50:A:LYS:HG2	1:60:A:MET:HE2	14	0.44
(1,1932)	1:94:A:LEU:HD22	1:94:A:LEU:HA	2	0.44
(1,1866)	1:95:A:THR:HG22	1:72:A:VAL:HA	10	0.44
(1,1864)	1:95:A:THR:HG23	1:72:A:VAL:HB	16	0.44
(1,1864)	1:95:A:THR:HG22	1:72:A:VAL:HB	18	0.44
(1,1843)	1:40:A:LEU:HD21	1:44:A:TYR:HA	1	0.44
(1,1825)	1:45:A:THR:HG21	1:46:A:LYS:HA	2	0.44
(1,1819)	1:79:A:LEU:HD21	1:150:A:VAL:HG11	18	0.44
(1,1767)	1:86:A:LEU:HD23	1:86:A:LEU:HB2	6	0.44
(1,1763)	1:99:A:VAL:HG11	1:101:A:LEU:HG	19	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1755)	1:99:A:VAL:HG21	1:99:A:VAL:HG11	8	0.44
(1,1750)	1:145:A:THR:HG22	1:145:A:THR:HB	3	0.44
(1,1750)	1:145:A:THR:HG21	1:145:A:THR:HB	6	0.44
(1,1750)	1:145:A:THR:HG22	1:145:A:THR:HB	7	0.44
(1,1750)	1:145:A:THR:HG23	1:145:A:THR:HB	11	0.44
(1,1750)	1:145:A:THR:HG22	1:145:A:THR:HB	17	0.44
(1,1750)	1:145:A:THR:HG23	1:145:A:THR:HB	20	0.44
(1,1747)	1:72:A:VAL:HG22	1:95:A:THR:HG23	4	0.44
(1,1720)	1:154:A:ALA:HB1	1:77:A:VAL:HG12	4	0.44
(1,1720)	1:154:A:ALA:HB3	1:77:A:VAL:HG12	16	0.44
(1,1691)	1:111:A:ALA:HB3	1:102:A:GLN:HG2	3	0.44
(1,1640)	1:82:A:ALA:HB1	1:81:A:ASN:HB3	4	0.44
(1,1640)	1:82:A:ALA:HB3	1:81:A:ASN:HB3	8	0.44
(1,1560)	1:97:A:ILE:HD13	1:69:A:LYS:HE3	12	0.44
(1,1546)	1:120:A:ILE:HD11	1:98:A:LEU:HB2	4	0.44
(1,1482)	1:60:A:MET:H	1:59:A:GLN:HB3	5	0.44
(1,1275)	1:163:A:TRP:HE1	1:154:A:ALA:HB2	3	0.44
(1,1258)	1:75:A:GLY:H	1:74:A:ASP:HB3	6	0.44
(1,1258)	1:75:A:GLY:H	1:74:A:ASP:HB3	16	0.44
(1,1208)	1:25:A:GLY:H	1:24:A:ILE:HD13	16	0.44
(1,1061)	1:172:A:ASN:H	1:171:A:ILE:HD13	2	0.44
(1,1061)	1:172:A:ASN:H	1:171:A:ILE:HD12	19	0.44
(1,1014)	1:161:A:ASN:H	1:161:A:ASN:HD22	2	0.44
(1,1012)	1:47:A:THR:H	1:47:A:THR:HG22	19	0.44
(1,943)	1:178:A:GLU:H	1:178:A:GLU:HG2	3	0.44
(1,912)	1:50:A:LYS:H	1:50:A:LYS:HB3	5	0.44
(1,884)	1:129:A:GLU:H	1:128:A:ARG:HB2	20	0.44
(1,842)	1:110:A:PHE:H	1:109:A:ILE:HD12	11	0.44
(1,842)	1:110:A:PHE:H	1:109:A:ILE:HD12	16	0.44
(1,712)	1:74:A:ASP:H	1:71:A:LEU:HD12	13	0.44
(1,700)	1:137:A:LEU:H	1:137:A:LEU:HD23	18	0.44
(1,671)	1:140:A:ILE:H	1:140:A:ILE:HG23	5	0.44
(1,671)	1:140:A:ILE:H	1:140:A:ILE:HG23	6	0.44
(1,667)	1:24:A:ILE:H	1:27:A:VAL:HG22	3	0.44
(1,667)	1:24:A:ILE:H	1:27:A:VAL:HG22	10	0.44
(1,542)	1:61:A:PHE:H	1:61:A:PHE:HD1	3	0.44
(1,542)	1:61:A:PHE:H	1:61:A:PHE:HD1	11	0.44
(1,542)	1:61:A:PHE:H	1:61:A:PHE:HD1	18	0.44
(1,516)	1:153:A:HIS:HD2	1:133:A:GLU:HB3	3	0.44
(1,507)	1:153:A:HIS:HE1	1:132:A:HIS:HD2	11	0.44
(1,492)	1:95:A:THR:HG23	1:69:A:LYS:HB2	1	0.44
(1,487)	1:40:A:LEU:HG	1:39:A:ARG:HG3	11	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,487)	1:40:A:LEU:HG	1:39:A:ARG:HG3	18	0.44
(1,485)	1:64:A:GLU:HG3	1:67:A:LYS:HD3	16	0.44
(1,482)	1:19:A:LEU:HG	1:19:A:LEU:HD21	17	0.44
(1,481)	1:149:A:MET:HG3	1:138:A:PHE:HZ	17	0.44
(1,465)	1:38:A:VAL:HG21	1:37:A:LYS:HE2	8	0.44
(1,465)	1:38:A:VAL:HG23	1:37:A:LYS:HE3	12	0.44
(1,465)	1:38:A:VAL:HG23	1:37:A:LYS:HE2	16	0.44
(1,455)	1:151:A:GLU:HB2	1:116:A:LYS:HD3	1	0.44
(1,431)	1:67:A:LYS:HE3	1:44:A:TYR:HE1	17	0.44
(1,416)	1:18:A:SER:HA	1:24:A:ILE:HD11	14	0.44
(1,412)	1:30:A:LYS:HG3	1:30:A:LYS:HD2	2	0.44
(1,412)	1:30:A:LYS:HG3	1:30:A:LYS:HD2	3	0.44
(1,412)	1:30:A:LYS:HG3	1:30:A:LYS:HD2	8	0.44
(1,412)	1:30:A:LYS:HG3	1:30:A:LYS:HD2	9	0.44
(1,384)	1:169:A:ASP:HA	1:165:A:GLN:HG3	15	0.44
(1,373)	1:30:A:LYS:HB2	1:33:A:SER:HB2	15	0.44
(1,353)	1:67:A:LYS:HE3	1:67:A:LYS:HA	5	0.44
(1,349)	1:8:A:VAL:HA	1:8:A:VAL:HG11	14	0.44
(1,348)	1:162:A:SER:HB2	1:161:A:ASN:HB3	2	0.44
(1,306)	1:24:A:ILE:HG22	1:25:A:GLY:HA3	4	0.44
(1,306)	1:24:A:ILE:HG22	1:25:A:GLY:HA3	8	0.44
(1,306)	1:24:A:ILE:HG22	1:25:A:GLY:HA3	12	0.44
(1,306)	1:24:A:ILE:HG23	1:25:A:GLY:HA3	14	0.44
(1,293)	1:67:A:LYS:HE3	1:64:A:GLU:HA	10	0.44
(1,237)	1:20:A:VAL:HG23	1:20:A:VAL:HB	4	0.44
(1,237)	1:20:A:VAL:HB	1:20:A:VAL:HG12	14	0.44
(1,210)	1:70:A:LYS:HD2	1:8:A:VAL:HG23	11	0.44
(1,171)	1:107:A:LYS:HG3	1:47:A:THR:HA	13	0.44
(1,171)	1:107:A:LYS:HG3	1:47:A:THR:HA	15	0.44
(1,171)	1:107:A:LYS:HG3	1:47:A:THR:HA	20	0.44
(1,168)	1:107:A:LYS:HG2	1:106:A:GLN:HG3	11	0.44
(1,161)	1:71:A:LEU:HD12	1:93:A:LEU:H	9	0.44
(1,159)	1:71:A:LEU:HD12	1:94:A:LEU:HA	10	0.44
(1,151)	1:50:A:LYS:HG2	1:49:A:SER:HB2	4	0.44
(1,148)	1:30:A:LYS:HG2	1:30:A:LYS:HD3	5	0.44
(1,148)	1:30:A:LYS:HG2	1:30:A:LYS:HD3	8	0.44
(1,148)	1:30:A:LYS:HG2	1:30:A:LYS:HD3	15	0.44
(1,137)	1:67:A:LYS:HG2	1:68:A:ARG:HB2	15	0.44
(1,116)	1:89:A:VAL:HG12	1:87:A:LYS:HD3	16	0.44
(1,101)	1:164:A:ILE:HD12	1:129:A:GLU:HB3	1	0.44
(1,89)	1:127:A:VAL:H	1:127:A:VAL:HG23	2	0.44
(1,89)	1:127:A:VAL:H	1:127:A:VAL:HG23	5	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,79)	1:116:A:LYS:H	1:116:A:LYS:HD2	1	0.44
(1,79)	1:116:A:LYS:H	1:116:A:LYS:HD2	8	0.44
(1,79)	1:116:A:LYS:H	1:116:A:LYS:HD2	14	0.44
(1,78)	1:107:A:LYS:H	1:103:A:GLU:HG3	20	0.44
(1,46)	1:175:A:ASN:H	1:174:A:LEU:HG	18	0.44
(1,30)	1:139:A:LEU:H	1:139:A:LEU:HD21	8	0.44
(1,20)	1:11:A:GLU:H	1:178:A:GLU:H	5	0.44
(1,14)	1:128:A:ARG:H	1:127:A:VAL:HB	3	0.44
(1,14)	1:128:A:ARG:H	1:127:A:VAL:HB	12	0.44
(1,14)	1:128:A:ARG:H	1:127:A:VAL:HB	14	0.44
(2,26)	1:169:A:ASP:H	1:166:A:ILE:O	4	0.43
(2,26)	1:169:A:ASP:H	1:166:A:ILE:O	14	0.43
(2,25)	1:168:A:GLN:H	1:164:A:ILE:O	20	0.43
(2,21)	1:161:A:ASN:H	1:158:A:GLU:O	9	0.43
(2,20)	1:154:A:ALA:H	1:135:A:LYS:O	15	0.43
(2,4)	1:79:A:LEU:H	1:87:A:LYS:O	4	0.43
(1,3457)	1:86:A:LEU:HD13	1:153:A:HIS:HE1	8	0.43
(1,3397)	1:45:A:THR:HG22	1:42:A:GLU:HG3	3	0.43
(1,3380)	1:40:A:LEU:HG	1:43:A:ILE:HD11	6	0.43
(1,3380)	1:40:A:LEU:HG	1:43:A:ILE:HD13	10	0.43
(1,3369)	1:174:A:LEU:HD22	1:95:A:THR:HG21	5	0.43
(1,3344)	1:149:A:MET:HE1	1:140:A:ILE:HG13	16	0.43
(1,3325)	1:112:A:SER:HA	1:53:A:MET:HE1	19	0.43
(1,3313)	1:109:A:ILE:HD11	1:104:A:LYS:HA	14	0.43
(1,3308)	1:53:A:MET:HE1	1:119:A:VAL:H	11	0.43
(1,3308)	1:53:A:MET:HE3	1:119:A:VAL:H	18	0.43
(1,3304)	1:119:A:VAL:HG21	1:110:A:PHE:HZ	9	0.43
(1,3277)	1:111:A:ALA:HB2	1:100:A:PHE:HD2	5	0.43
(1,3268)	1:163:A:TRP:H	1:164:A:ILE:HD11	4	0.43
(1,3268)	1:163:A:TRP:H	1:164:A:ILE:HD13	11	0.43
(1,3268)	1:163:A:TRP:H	1:164:A:ILE:HD12	20	0.43
(1,3250)	1:2:A:MET:HG2	1:2:A:MET:HB3	18	0.43
(1,3231)	1:86:A:LEU:HD22	1:153:A:HIS:HA	13	0.43
(1,3231)	1:86:A:LEU:HD22	1:153:A:HIS:HA	20	0.43
(1,3230)	1:86:A:LEU:HD22	1:153:A:HIS:HD2	13	0.43
(1,3229)	1:86:A:LEU:HD21	1:153:A:HIS:HE1	12	0.43
(1,3198)	1:101:A:LEU:HD23	1:110:A:PHE:HZ	10	0.43
(1,3198)	1:101:A:LEU:HD23	1:110:A:PHE:HZ	15	0.43
(1,3185)	1:142:A:MET:HA	1:147:A:PRO:HB2	7	0.43
(1,3180)	1:35:A:GLU:HB3	1:35:A:GLU:HG2	2	0.43
(1,3180)	1:35:A:GLU:HB3	1:35:A:GLU:HG2	11	0.43
(1,3180)	1:35:A:GLU:HB3	1:35:A:GLU:HG2	13	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3180)	1:35:A:GLU:HB3	1:35:A:GLU:HG2	17	0.43
(1,3156)	1:142:A:MET:HE1	1:142:A:MET:HA	11	0.43
(1,3152)	1:97:A:ILE:HD11	1:65:A:ASP:HB3	3	0.43
(1,3149)	1:47:A:THR:HG21	1:63:A:LYS:HE2	11	0.43
(1,3132)	1:4:A:LYS:HB3	1:4:A:LYS:HD3	13	0.43
(1,3094)	1:66:A:LEU:HB3	1:61:A:PHE:HE1	5	0.43
(1,3053)	1:55:A:MET:HE1	1:119:A:VAL:H	7	0.43
(1,3053)	1:55:A:MET:HE1	1:119:A:VAL:H	19	0.43
(1,3053)	1:55:A:MET:HE1	1:119:A:VAL:H	20	0.43
(1,3051)	1:55:A:MET:HE3	1:59:A:GLN:HE22	19	0.43
(1,2970)	1:176:A:ARG:HD3	1:176:A:ARG:HA	11	0.43
(1,2951)	1:144:A:MET:HE1	1:144:A:MET:HA	8	0.43
(1,2793)	1:120:A:ILE:HD12	1:118:A:THR:HA	7	0.43
(1,2793)	1:120:A:ILE:HD11	1:118:A:THR:HA	16	0.43
(1,2758)	1:44:A:TYR:HA	1:44:A:TYR:HE1	12	0.43
(1,2720)	1:41:A:ASN:HA	1:44:A:TYR:HE1	20	0.43
(1,2673)	1:144:A:MET:HB2	1:144:A:MET:HA	11	0.43
(1,2673)	1:144:A:MET:HB2	1:144:A:MET:HA	17	0.43
(1,2673)	1:144:A:MET:HB2	1:144:A:MET:HA	19	0.43
(1,2669)	1:10:A:GLN:HA	1:10:A:GLN:HB2	11	0.43
(1,2669)	1:10:A:GLN:HA	1:10:A:GLN:HB2	20	0.43
(1,2660)	1:130:A:VAL:HG21	1:138:A:PHE:HA	8	0.43
(1,2599)	1:69:A:LYS:HA	1:69:A:LYS:HE2	4	0.43
(1,2599)	1:69:A:LYS:HA	1:69:A:LYS:HE2	15	0.43
(1,2594)	1:14:A:ALA:HA	1:19:A:LEU:HB2	7	0.43
(1,2589)	1:113:A:LEU:HA	1:118:A:THR:HG21	16	0.43
(1,2567)	1:146:A:ASP:HA	1:147:A:PRO:HG2	3	0.43
(1,2567)	1:146:A:ASP:HA	1:147:A:PRO:HG2	8	0.43
(1,2508)	1:73:A:ARG:HD2	1:166:A:ILE:HG12	12	0.43
(1,2477)	1:80:A:LYS:HE3	1:80:A:LYS:HB2	15	0.43
(1,2477)	1:80:A:LYS:HE3	1:80:A:LYS:HB2	19	0.43
(1,2475)	1:80:A:LYS:HE2	1:86:A:LEU:HD13	3	0.43
(1,2475)	1:80:A:LYS:HE2	1:86:A:LEU:HD13	4	0.43
(1,2475)	1:80:A:LYS:HE2	1:86:A:LEU:HD11	15	0.43
(1,2475)	1:80:A:LYS:HE2	1:86:A:LEU:HD11	16	0.43
(1,2424)	1:105:A:ASP:HB3	1:104:A:LYS:HG3	7	0.43
(1,2401)	1:34:A:TYR:HB3	1:31:A:VAL:HG12	8	0.43
(1,2401)	1:34:A:TYR:HB3	1:31:A:VAL:HG12	14	0.43
(1,2384)	1:35:A:GLU:HG3	1:38:A:VAL:HG22	12	0.43
(1,2383)	1:35:A:GLU:HG3	1:38:A:VAL:HG11	3	0.43
(1,2369)	1:134:A:GLU:HG3	1:135:A:LYS:HG2	11	0.43
(1,2365)	1:134:A:GLU:HG2	1:135:A:LYS:HG2	1	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2353)	1:133:A:GLU:HG3	1:130:A:VAL:HG11	6	0.43
(1,2266)	1:149:A:MET:HB3	1:138:A:PHE:HA	4	0.43
(1,2222)	1:154:A:ALA:HB1	1:159:A:GLU:HB2	9	0.43
(1,2188)	1:98:A:LEU:HD21	1:93:A:LEU:HD21	10	0.43
(1,2166)	1:67:A:LYS:HD3	1:67:A:LYS:HA	6	0.43
(1,2166)	1:67:A:LYS:HD3	1:67:A:LYS:HA	9	0.43
(1,2109)	1:24:A:ILE:HG12	1:24:A:ILE:HB	3	0.43
(1,2109)	1:24:A:ILE:HG12	1:24:A:ILE:HB	4	0.43
(1,2109)	1:24:A:ILE:HG12	1:24:A:ILE:HB	5	0.43
(1,2109)	1:24:A:ILE:HG12	1:24:A:ILE:HB	8	0.43
(1,2109)	1:24:A:ILE:HG12	1:24:A:ILE:HB	10	0.43
(1,2109)	1:24:A:ILE:HG12	1:24:A:ILE:HB	14	0.43
(1,2109)	1:24:A:ILE:HG12	1:24:A:ILE:HB	15	0.43
(1,2109)	1:24:A:ILE:HG12	1:24:A:ILE:HB	17	0.43
(1,2109)	1:24:A:ILE:HG12	1:24:A:ILE:HB	18	0.43
(1,2109)	1:24:A:ILE:HG12	1:24:A:ILE:HB	19	0.43
(1,1977)	1:101:A:LEU:HD13	1:110:A:PHE:HA	10	0.43
(1,1977)	1:101:A:LEU:HD11	1:110:A:PHE:HA	11	0.43
(1,1957)	1:66:A:LEU:HD12	1:66:A:LEU:HB3	8	0.43
(1,1949)	1:94:A:LEU:HD23	1:69:A:LYS:HA	4	0.43
(1,1949)	1:94:A:LEU:HD21	1:69:A:LYS:HA	10	0.43
(1,1939)	1:50:A:LYS:HG3	1:60:A:MET:HE3	8	0.43
(1,1932)	1:94:A:LEU:HD21	1:94:A:LEU:HA	4	0.43
(1,1926)	1:19:A:LEU:HD11	1:18:A:SER:HB2	4	0.43
(1,1903)	1:86:A:LEU:HD11	1:78:A:PHE:HA	8	0.43
(1,1903)	1:86:A:LEU:HD12	1:78:A:PHE:HA	18	0.43
(1,1819)	1:79:A:LEU:HD22	1:150:A:VAL:HG12	5	0.43
(1,1792)	1:122:A:LEU:HD12	1:122:A:LEU:HA	10	0.43
(1,1792)	1:122:A:LEU:HD13	1:122:A:LEU:HA	18	0.43
(1,1755)	1:99:A:VAL:HG22	1:99:A:VAL:HG12	2	0.43
(1,1755)	1:99:A:VAL:HG22	1:99:A:VAL:HG12	17	0.43
(1,1750)	1:145:A:THR:HG21	1:145:A:THR:HB	15	0.43
(1,1750)	1:145:A:THR:HG22	1:145:A:THR:HB	19	0.43
(1,1747)	1:72:A:VAL:HG22	1:95:A:THR:HG22	12	0.43
(1,1731)	1:31:A:VAL:HG11	1:32:A:ALA:HA	15	0.43
(1,1692)	1:111:A:ALA:HB3	1:102:A:GLN:HG3	14	0.43
(1,1680)	1:130:A:VAL:HG23	1:136:A:GLY:HA2	17	0.43
(1,1614)	1:171:A:ILE:HG23	1:174:A:LEU:HD11	11	0.43
(1,1614)	1:171:A:ILE:HG21	1:174:A:LEU:HD11	12	0.43
(1,1614)	1:171:A:ILE:HG22	1:174:A:LEU:HD13	17	0.43
(1,1594)	1:55:A:MET:HE3	1:120:A:ILE:HA	16	0.43
(1,1560)	1:97:A:ILE:HD12	1:69:A:LYS:HE3	6	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1504)	1:163:A:TRP:HE1	1:75:A:GLY:HA2	8	0.43
(1,1377)	1:175:A:ASN:HD22	1:171:A:ILE:HG22	12	0.43
(1,1355)	1:15:A:GLN:H	1:14:A:ALA:HB1	9	0.43
(1,1307)	1:63:A:LYS:H	1:47:A:THR:HG22	12	0.43
(1,1275)	1:163:A:TRP:HE1	1:154:A:ALA:HB2	17	0.43
(1,1275)	1:163:A:TRP:HE1	1:154:A:ALA:HB3	18	0.43
(1,1258)	1:75:A:GLY:H	1:74:A:ASP:HB3	12	0.43
(1,1258)	1:75:A:GLY:H	1:74:A:ASP:HB3	14	0.43
(1,1061)	1:172:A:ASN:H	1:171:A:ILE:HD11	3	0.43
(1,1061)	1:172:A:ASN:H	1:171:A:ILE:HD13	4	0.43
(1,1061)	1:172:A:ASN:H	1:171:A:ILE:HD13	6	0.43
(1,1042)	1:70:A:LYS:H	1:69:A:LYS:HB3	1	0.43
(1,1012)	1:47:A:THR:H	1:47:A:THR:HG22	8	0.43
(1,1012)	1:47:A:THR:H	1:47:A:THR:HG23	18	0.43
(1,1001)	1:119:A:VAL:H	1:119:A:VAL:HG21	12	0.43
(1,896)	1:176:A:ARG:H	1:176:A:ARG:HG2	11	0.43
(1,878)	1:43:A:ILE:H	1:43:A:ILE:HD12	8	0.43
(1,823)	1:86:A:LEU:H	1:85:A:ARG:HB2	1	0.43
(1,716)	1:141:A:SER:H	1:126:A:ILE:HD12	19	0.43
(1,671)	1:140:A:ILE:H	1:140:A:ILE:HG23	1	0.43
(1,667)	1:24:A:ILE:H	1:27:A:VAL:HG22	16	0.43
(1,564)	1:104:A:LYS:H	1:103:A:GLU:HG3	2	0.43
(1,507)	1:153:A:HIS:HE1	1:78:A:PHE:HD2	13	0.43
(1,505)	1:37:A:LYS:HE2	1:34:A:TYR:HD2	11	0.43
(1,499)	1:36:A:LYS:HD3	1:36:A:LYS:HA	6	0.43
(1,499)	1:36:A:LYS:HD3	1:36:A:LYS:HA	17	0.43
(1,482)	1:19:A:LEU:HG	1:19:A:LEU:HD21	12	0.43
(1,482)	1:19:A:LEU:HG	1:19:A:LEU:HD23	18	0.43
(1,482)	1:19:A:LEU:HG	1:19:A:LEU:HD22	20	0.43
(1,481)	1:149:A:MET:HG3	1:138:A:PHE:HZ	19	0.43
(1,465)	1:38:A:VAL:HG21	1:37:A:LYS:HE3	6	0.43
(1,465)	1:38:A:VAL:HG23	1:37:A:LYS:HE2	10	0.43
(1,439)	1:35:A:GLU:HB2	1:31:A:VAL:HG11	2	0.43
(1,439)	1:10:A:GLN:HB3	1:174:A:LEU:HD13	13	0.43
(1,416)	1:18:A:SER:HA	1:24:A:ILE:HD13	11	0.43
(1,412)	1:30:A:LYS:HG3	1:30:A:LYS:HD2	4	0.43
(1,412)	1:30:A:LYS:HG3	1:30:A:LYS:HD2	5	0.43
(1,412)	1:30:A:LYS:HG3	1:30:A:LYS:HD2	11	0.43
(1,412)	1:30:A:LYS:HG3	1:30:A:LYS:HD2	13	0.43
(1,412)	1:30:A:LYS:HG3	1:30:A:LYS:HD2	15	0.43
(1,412)	1:30:A:LYS:HG3	1:30:A:LYS:HD2	17	0.43
(1,412)	1:30:A:LYS:HG3	1:30:A:LYS:HD2	19	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,405)	1:43:A:ILE:HD13	1:39:A:ARG:HG3	10	0.43
(1,365)	1:76:A:SER:HB3	1:78:A:PHE:HD1	4	0.43
(1,353)	1:67:A:LYS:HE3	1:67:A:LYS:HA	1	0.43
(1,339)	1:157:A:LYS:HA	1:134:A:GLU:HB2	8	0.43
(1,317)	1:14:A:ALA:HA	1:8:A:VAL:HG13	3	0.43
(1,317)	1:14:A:ALA:HA	1:8:A:VAL:HG12	6	0.43
(1,315)	1:82:A:ALA:HA	1:116:A:LYS:HG3	15	0.43
(1,306)	1:24:A:ILE:HG21	1:25:A:GLY:HA3	3	0.43
(1,306)	1:24:A:ILE:HG21	1:25:A:GLY:HA3	7	0.43
(1,306)	1:24:A:ILE:HG23	1:25:A:GLY:HA3	10	0.43
(1,306)	1:24:A:ILE:HG22	1:25:A:GLY:HA3	15	0.43
(1,272)	1:87:A:LYS:HE3	1:111:A:ALA:HB3	1	0.43
(1,272)	1:87:A:LYS:HE3	1:79:A:LEU:HB2	11	0.43
(1,237)	1:20:A:VAL:HG21	1:20:A:VAL:HB	6	0.43
(1,237)	1:20:A:VAL:HG22	1:20:A:VAL:HB	16	0.43
(1,211)	1:109:A:ILE:HD12	1:104:A:LYS:HD3	17	0.43
(1,197)	1:68:A:ARG:HG2	1:67:A:LYS:HE2	19	0.43
(1,171)	1:107:A:LYS:HG3	1:47:A:THR:HA	7	0.43
(1,170)	1:107:A:LYS:HG3	1:46:A:LYS:HA	8	0.43
(1,148)	1:30:A:LYS:HG2	1:30:A:LYS:HD3	2	0.43
(1,148)	1:30:A:LYS:HG2	1:30:A:LYS:HD3	6	0.43
(1,148)	1:30:A:LYS:HG2	1:30:A:LYS:HD3	9	0.43
(1,148)	1:30:A:LYS:HG2	1:30:A:LYS:HD3	11	0.43
(1,148)	1:30:A:LYS:HG2	1:30:A:LYS:HD3	13	0.43
(1,148)	1:30:A:LYS:HG2	1:30:A:LYS:HD3	17	0.43
(1,148)	1:30:A:LYS:HG2	1:30:A:LYS:HD3	19	0.43
(1,126)	1:95:A:THR:HG23	1:70:A:LYS:HD3	9	0.43
(1,48)	1:18:A:SER:H	1:18:A:SER:HB2	14	0.43
(1,42)	1:76:A:SER:H	1:77:A:VAL:HG12	3	0.43
(1,42)	1:76:A:SER:H	1:77:A:VAL:HG12	19	0.43
(1,33)	1:107:A:LYS:H	1:106:A:GLN:HG3	12	0.43
(1,29)	1:8:A:VAL:H	1:8:A:VAL:HG23	3	0.43
(1,20)	1:11:A:GLU:H	1:178:A:GLU:H	3	0.43
(1,5)	1:120:A:ILE:H	1:97:A:ILE:HG21	2	0.43
(2,21)	1:161:A:ASN:H	1:158:A:GLU:O	6	0.42
(1,3401)	1:126:A:ILE:HG22	1:143:A:GLY:H	7	0.42
(1,3399)	1:125:A:LEU:HD23	1:170:A:THR:HB	3	0.42
(1,3370)	1:174:A:LEU:HD23	1:171:A:ILE:HA	1	0.42
(1,3369)	1:174:A:LEU:HD21	1:95:A:THR:HG21	3	0.42
(1,3344)	1:149:A:MET:HE3	1:140:A:ILE:HG13	4	0.42
(1,3313)	1:109:A:ILE:HD11	1:104:A:LYS:HA	11	0.42
(1,3311)	1:102:A:GLN:HG3	1:109:A:ILE:HD12	5	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3304)	1:119:A:VAL:HG21	1:110:A:PHE:HZ	1	0.42
(1,3294)	1:65:A:ASP:HA	1:61:A:PHE:HE2	12	0.42
(1,3294)	1:65:A:ASP:HA	1:61:A:PHE:HE2	17	0.42
(1,3268)	1:163:A:TRP:H	1:164:A:ILE:HD11	1	0.42
(1,3268)	1:163:A:TRP:H	1:164:A:ILE:HD12	7	0.42
(1,3265)	1:76:A:SER:HB2	1:76:A:SER:H	17	0.42
(1,3250)	1:2:A:MET:HG2	1:2:A:MET:HB3	6	0.42
(1,3250)	1:2:A:MET:HG2	1:2:A:MET:HB3	7	0.42
(1,3250)	1:2:A:MET:HG2	1:2:A:MET:HB3	9	0.42
(1,3250)	1:2:A:MET:HG2	1:2:A:MET:HB3	12	0.42
(1,3250)	1:2:A:MET:HG2	1:2:A:MET:HB3	14	0.42
(1,3250)	1:2:A:MET:HG2	1:2:A:MET:HB3	19	0.42
(1,3237)	1:98:A:LEU:HD22	1:120:A:ILE:HG12	1	0.42
(1,3237)	1:98:A:LEU:HD23	1:120:A:ILE:HG12	10	0.42
(1,3237)	1:98:A:LEU:HD23	1:120:A:ILE:HG12	15	0.42
(1,3237)	1:98:A:LEU:HD23	1:120:A:ILE:HG12	19	0.42
(1,3230)	1:86:A:LEU:HD21	1:153:A:HIS:HD2	7	0.42
(1,3230)	1:86:A:LEU:HD22	1:153:A:HIS:HD2	18	0.42
(1,3224)	1:79:A:LEU:H	1:79:A:LEU:HD21	5	0.42
(1,3221)	1:152:A:VAL:HG23	1:150:A:VAL:H	6	0.42
(1,3221)	1:152:A:VAL:HG23	1:150:A:VAL:H	17	0.42
(1,3198)	1:101:A:LEU:HD22	1:110:A:PHE:HZ	9	0.42
(1,3198)	1:101:A:LEU:HD21	1:110:A:PHE:HZ	16	0.42
(1,3185)	1:142:A:MET:HA	1:147:A:PRO:HB2	6	0.42
(1,3172)	1:101:A:LEU:HD22	1:110:A:PHE:HE1	5	0.42
(1,3169)	1:101:A:LEU:HD23	1:108:A:TYR:HA	1	0.42
(1,3156)	1:142:A:MET:HE2	1:142:A:MET:HA	12	0.42
(1,3152)	1:97:A:ILE:HD13	1:65:A:ASP:HB3	2	0.42
(1,3152)	1:97:A:ILE:HD12	1:65:A:ASP:HB3	19	0.42
(1,3148)	1:5:A:ASP:HB2	1:8:A:VAL:HG21	8	0.42
(1,3116)	1:87:A:LYS:HE3	1:113:A:LEU:HD23	19	0.42
(1,3094)	1:66:A:LEU:HB3	1:61:A:PHE:HE1	9	0.42
(1,3091)	1:55:A:MET:HE3	1:55:A:MET:HA	9	0.42
(1,3086)	1:143:A:GLY:HA3	1:56:A:LYS:HE2	1	0.42
(1,3051)	1:55:A:MET:HE2	1:59:A:GLN:HE22	9	0.42
(1,3021)	1:140:A:ILE:HD11	1:138:A:PHE:HE2	10	0.42
(1,2975)	1:102:A:GLN:HG2	1:109:A:ILE:HD13	16	0.42
(1,2942)	1:110:A:PHE:HB2	1:53:A:MET:HE2	3	0.42
(1,2825)	1:32:A:ALA:HB1	1:29:A:SER:HB2	3	0.42
(1,2794)	1:34:A:TYR:HA	1:38:A:VAL:HG22	20	0.42
(1,2793)	1:120:A:ILE:HD12	1:118:A:THR:HA	9	0.42
(1,2783)	1:117:A:SER:HA	1:55:A:MET:HB3	17	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2721)	1:61:A:PHE:HA	1:61:A:PHE:HE2	12	0.42
(1,2713)	1:66:A:LEU:HD21	1:66:A:LEU:HA	6	0.42
(1,2713)	1:66:A:LEU:HD23	1:66:A:LEU:HA	9	0.42
(1,2713)	1:66:A:LEU:HD23	1:66:A:LEU:HA	14	0.42
(1,2673)	1:144:A:MET:HB2	1:144:A:MET:HA	6	0.42
(1,2673)	1:144:A:MET:HB2	1:144:A:MET:HA	18	0.42
(1,2657)	1:108:A:TYR:HA	1:109:A:ILE:HD13	1	0.42
(1,2629)	1:137:A:LEU:HA	1:130:A:VAL:HG23	8	0.42
(1,2599)	1:69:A:LYS:HA	1:69:A:LYS:HE2	3	0.42
(1,2582)	1:53:A:MET:HA	1:53:A:MET:HE1	6	0.42
(1,2582)	1:53:A:MET:HA	1:53:A:MET:HE1	10	0.42
(1,2582)	1:53:A:MET:HA	1:53:A:MET:HE3	20	0.42
(1,2567)	1:146:A:ASP:HA	1:147:A:PRO:HG2	2	0.42
(1,2567)	1:146:A:ASP:HA	1:147:A:PRO:HG2	4	0.42
(1,2567)	1:146:A:ASP:HA	1:147:A:PRO:HG2	18	0.42
(1,2493)	1:128:A:ARG:HB2	1:128:A:ARG:HD3	19	0.42
(1,2475)	1:80:A:LYS:HE2	1:86:A:LEU:HD11	2	0.42
(1,2475)	1:80:A:LYS:HE2	1:86:A:LEU:HD12	19	0.42
(1,2473)	1:80:A:LYS:HE2	1:86:A:LEU:HD23	20	0.42
(1,2440)	1:28:A:ASP:HB3	1:25:A:GLY:HA3	2	0.42
(1,2440)	1:28:A:ASP:HB3	1:25:A:GLY:HA3	4	0.42
(1,2440)	1:28:A:ASP:HB3	1:25:A:GLY:HA3	12	0.42
(1,2440)	1:28:A:ASP:HB3	1:25:A:GLY:HA3	15	0.42
(1,2407)	1:38:A:VAL:HG11	1:41:A:ASN:HB3	9	0.42
(1,2407)	1:38:A:VAL:HG11	1:41:A:ASN:HB3	10	0.42
(1,2394)	1:159:A:GLU:HG2	1:155:A:SER:HB2	8	0.42
(1,2384)	1:35:A:GLU:HG3	1:38:A:VAL:HG23	4	0.42
(1,2303)	1:144:A:MET:HG2	1:145:A:THR:HG21	13	0.42
(1,2278)	1:123:A:LYS:HB2	1:174:A:LEU:HD23	1	0.42
(1,2251)	1:11:A:GLU:HB2	1:19:A:LEU:HD12	14	0.42
(1,2222)	1:154:A:ALA:HB2	1:159:A:GLU:HB2	4	0.42
(1,2188)	1:98:A:LEU:HD21	1:93:A:LEU:HD23	11	0.42
(1,2179)	1:80:A:LYS:HD3	1:80:A:LYS:HB2	6	0.42
(1,2166)	1:67:A:LYS:HD3	1:67:A:LYS:HA	8	0.42
(1,2159)	1:107:A:LYS:HD3	1:107:A:LYS:HB2	8	0.42
(1,2157)	1:135:A:LYS:HD3	1:135:A:LYS:HB3	9	0.42
(1,2153)	1:64:A:GLU:HB2	1:44:A:TYR:HE2	8	0.42
(1,2109)	1:24:A:ILE:HG12	1:24:A:ILE:HB	1	0.42
(1,2109)	1:24:A:ILE:HG12	1:24:A:ILE:HB	2	0.42
(1,2109)	1:24:A:ILE:HG12	1:24:A:ILE:HB	6	0.42
(1,2109)	1:24:A:ILE:HG12	1:24:A:ILE:HB	9	0.42
(1,2109)	1:24:A:ILE:HG12	1:24:A:ILE:HB	11	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2109)	1:24:A:ILE:HG12	1:24:A:ILE:HB	12	0.42
(1,2109)	1:24:A:ILE:HG12	1:24:A:ILE:HB	13	0.42
(1,2109)	1:24:A:ILE:HG12	1:24:A:ILE:HB	16	0.42
(1,2109)	1:24:A:ILE:HG12	1:24:A:ILE:HB	20	0.42
(1,2075)	1:98:A:LEU:HD11	1:100:A:PHE:HZ	12	0.42
(1,2030)	1:124:A:LYS:HG3	1:123:A:LYS:HB3	12	0.42
(1,2030)	1:124:A:LYS:HG3	1:123:A:LYS:HB3	20	0.42
(1,2022)	1:93:A:LEU:HD13	1:72:A:VAL:H	19	0.42
(1,2019)	1:170:A:THR:HG21	1:93:A:LEU:HD12	13	0.42
(1,1995)	1:174:A:LEU:HD13	1:12:A:ASP:HB2	18	0.42
(1,1994)	1:174:A:LEU:HD11	1:171:A:ILE:HB	19	0.42
(1,1977)	1:101:A:LEU:HD11	1:110:A:PHE:HA	2	0.42
(1,1977)	1:101:A:LEU:HD12	1:110:A:PHE:HA	13	0.42
(1,1977)	1:101:A:LEU:HD12	1:110:A:PHE:HA	17	0.42
(1,1977)	1:101:A:LEU:HD11	1:110:A:PHE:HA	18	0.42
(1,1970)	1:101:A:LEU:HD12	1:99:A:VAL:HG21	7	0.42
(1,1958)	1:66:A:LEU:HD11	1:44:A:TYR:HB2	17	0.42
(1,1957)	1:66:A:LEU:HD13	1:66:A:LEU:HB3	4	0.42
(1,1957)	1:66:A:LEU:HD11	1:66:A:LEU:HB3	19	0.42
(1,1949)	1:94:A:LEU:HD23	1:69:A:LYS:HA	8	0.42
(1,1923)	1:67:A:LYS:HG2	1:44:A:TYR:HD1	12	0.42
(1,1877)	1:66:A:LEU:HD23	1:44:A:TYR:HA	18	0.42
(1,1866)	1:95:A:THR:HG23	1:72:A:VAL:HA	4	0.42
(1,1866)	1:95:A:THR:HG21	1:72:A:VAL:HA	15	0.42
(1,1864)	1:95:A:THR:HG21	1:72:A:VAL:HB	15	0.42
(1,1787)	1:101:A:LEU:HD22	1:66:A:LEU:HD11	5	0.42
(1,1755)	1:99:A:VAL:HG22	1:99:A:VAL:HG13	3	0.42
(1,1755)	1:99:A:VAL:HG22	1:99:A:VAL:HG13	12	0.42
(1,1750)	1:145:A:THR:HG22	1:145:A:THR:HB	1	0.42
(1,1747)	1:72:A:VAL:HG23	1:95:A:THR:HG22	6	0.42
(1,1747)	1:72:A:VAL:HG21	1:95:A:THR:HG23	16	0.42
(1,1742)	1:119:A:VAL:HG12	1:110:A:PHE:HE1	15	0.42
(1,1731)	1:31:A:VAL:HG11	1:32:A:ALA:HA	1	0.42
(1,1731)	1:31:A:VAL:HG11	1:32:A:ALA:HA	3	0.42
(1,1731)	1:31:A:VAL:HG12	1:32:A:ALA:HA	8	0.42
(1,1698)	1:91:A:ALA:HB1	1:98:A:LEU:HD21	8	0.42
(1,1685)	1:26:A:ALA:HB3	1:20:A:VAL:HA	20	0.42
(1,1663)	1:120:A:ILE:HG23	1:141:A:SER:HB2	6	0.42
(1,1642)	1:52:A:ILE:HG21	1:52:A:ILE:HG13	15	0.42
(1,1627)	1:43:A:ILE:HG23	1:108:A:TYR:HE2	8	0.42
(1,1614)	1:171:A:ILE:HG23	1:174:A:LEU:HD11	3	0.42
(1,1602)	1:149:A:MET:HE1	1:138:A:PHE:HD2	10	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1594)	1:55:A:MET:HE3	1:120:A:ILE:HA	1	0.42
(1,1594)	1:55:A:MET:HE3	1:120:A:ILE:HA	10	0.42
(1,1594)	1:55:A:MET:HE3	1:120:A:ILE:HA	17	0.42
(1,1570)	1:171:A:ILE:HD11	1:122:A:LEU:HB3	15	0.42
(1,1560)	1:97:A:ILE:HD11	1:69:A:LYS:HE3	5	0.42
(1,1546)	1:120:A:ILE:HD13	1:98:A:LEU:HB2	5	0.42
(1,1543)	1:120:A:ILE:HD12	1:98:A:LEU:HD22	13	0.42
(1,1518)	1:109:A:ILE:HD13	1:102:A:GLN:HB2	7	0.42
(1,1515)	1:126:A:ILE:HD12	1:142:A:MET:HB3	19	0.42
(1,1456)	1:35:A:GLU:H	1:35:A:GLU:HB3	4	0.42
(1,1456)	1:35:A:GLU:H	1:35:A:GLU:HB3	7	0.42
(1,1456)	1:35:A:GLU:H	1:35:A:GLU:HB3	15	0.42
(1,1416)	1:79:A:LEU:H	1:89:A:VAL:HG21	3	0.42
(1,1342)	1:100:A:PHE:H	1:98:A:LEU:HD22	11	0.42
(1,1342)	1:100:A:PHE:H	1:98:A:LEU:HD22	19	0.42
(1,1245)	1:106:A:GLN:H	1:103:A:GLU:HG3	19	0.42
(1,1088)	1:166:A:ILE:H	1:166:A:ILE:HD13	6	0.42
(1,1075)	1:162:A:SER:H	1:161:A:ASN:HB2	19	0.42
(1,1001)	1:119:A:VAL:H	1:119:A:VAL:HG22	15	0.42
(1,912)	1:50:A:LYS:H	1:50:A:LYS:HB3	1	0.42
(1,912)	1:50:A:LYS:H	1:50:A:LYS:HB3	9	0.42
(1,878)	1:43:A:ILE:H	1:43:A:ILE:HD13	18	0.42
(1,852)	1:159:A:GLU:H	1:154:A:ALA:HB3	10	0.42
(1,842)	1:110:A:PHE:H	1:109:A:ILE:HD12	7	0.42
(1,842)	1:110:A:PHE:H	1:109:A:ILE:HD13	12	0.42
(1,842)	1:110:A:PHE:H	1:109:A:ILE:HD12	14	0.42
(1,842)	1:110:A:PHE:H	1:109:A:ILE:HD12	19	0.42
(1,827)	1:86:A:LEU:H	1:86:A:LEU:HD21	18	0.42
(1,825)	1:86:A:LEU:H	1:86:A:LEU:HB3	3	0.42
(1,773)	1:42:A:GLU:H	1:42:A:GLU:HG3	7	0.42
(1,773)	1:42:A:GLU:H	1:42:A:GLU:HG3	13	0.42
(1,671)	1:140:A:ILE:H	1:140:A:ILE:HG21	3	0.42
(1,671)	1:140:A:ILE:H	1:140:A:ILE:HG21	15	0.42
(1,667)	1:24:A:ILE:H	1:27:A:VAL:HG21	6	0.42
(1,542)	1:61:A:PHE:H	1:61:A:PHE:HD1	20	0.42
(1,505)	1:37:A:LYS:HE3	1:34:A:TYR:HD2	15	0.42
(1,449)	1:31:A:VAL:HG11	1:30:A:LYS:HD3	20	0.42
(1,412)	1:30:A:LYS:HG3	1:30:A:LYS:HD2	7	0.42
(1,412)	1:30:A:LYS:HG3	1:30:A:LYS:HD2	16	0.42
(1,412)	1:30:A:LYS:HG3	1:30:A:LYS:HD2	18	0.42
(1,373)	1:30:A:LYS:HB2	1:33:A:SER:HB2	9	0.42
(1,365)	1:76:A:SER:HB3	1:78:A:PHE:HD1	18	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,365)	1:76:A:SER:HB3	1:78:A:PHE:HD1	19	0.42
(1,363)	1:37:A:LYS:HA	1:37:A:LYS:HE3	10	0.42
(1,353)	1:67:A:LYS:HE3	1:67:A:LYS:HA	17	0.42
(1,353)	1:67:A:LYS:HE3	1:67:A:LYS:HA	19	0.42
(1,315)	1:82:A:ALA:HA	1:116:A:LYS:HG3	9	0.42
(1,306)	1:24:A:ILE:HG23	1:25:A:GLY:HA3	2	0.42
(1,306)	1:24:A:ILE:HG23	1:25:A:GLY:HA3	9	0.42
(1,306)	1:24:A:ILE:HG23	1:25:A:GLY:HA3	11	0.42
(1,306)	1:24:A:ILE:HG23	1:25:A:GLY:HA3	19	0.42
(1,302)	1:25:A:GLY:HA2	1:28:A:ASP:HB3	20	0.42
(1,272)	1:87:A:LYS:HE3	1:111:A:ALA:HB3	16	0.42
(1,237)	1:20:A:VAL:HG22	1:20:A:VAL:HB	7	0.42
(1,230)	1:67:A:LYS:HB3	1:67:A:LYS:HE2	19	0.42
(1,229)	1:30:A:LYS:HB2	1:27:A:VAL:HG22	12	0.42
(1,199)	1:56:A:LYS:HD3	1:56:A:LYS:HB3	15	0.42
(1,170)	1:107:A:LYS:HG3	1:46:A:LYS:HA	7	0.42
(1,170)	1:107:A:LYS:HG3	1:46:A:LYS:HA	11	0.42
(1,154)	1:71:A:LEU:HD12	1:74:A:ASP:HB2	12	0.42
(1,148)	1:30:A:LYS:HG2	1:30:A:LYS:HD3	1	0.42
(1,148)	1:30:A:LYS:HG2	1:30:A:LYS:HD3	10	0.42
(1,148)	1:30:A:LYS:HG2	1:30:A:LYS:HD3	20	0.42
(1,142)	1:56:A:LYS:HG2	1:56:A:LYS:HD3	6	0.42
(1,139)	1:19:A:LEU:HD12	1:19:A:LEU:HG	5	0.42
(1,139)	1:19:A:LEU:HD12	1:19:A:LEU:HG	11	0.42
(1,126)	1:95:A:THR:HG22	1:70:A:LYS:HD3	3	0.42
(1,125)	1:62:A:ALA:HB3	1:64:A:GLU:HG3	2	0.42
(1,101)	1:164:A:ILE:HD13	1:129:A:GLU:HB3	14	0.42
(1,89)	1:127:A:VAL:H	1:127:A:VAL:HG22	6	0.42
(1,85)	1:142:A:MET:H	1:141:A:SER:HB2	2	0.42
(1,85)	1:142:A:MET:H	1:141:A:SER:HB2	16	0.42
(1,85)	1:142:A:MET:H	1:141:A:SER:HB2	19	0.42
(1,78)	1:107:A:LYS:H	1:103:A:GLU:HG2	8	0.42
(1,62)	1:4:A:LYS:H	1:5:A:ASP:HB2	13	0.42
(1,42)	1:76:A:SER:H	1:77:A:VAL:HG12	10	0.42
(1,38)	1:138:A:PHE:H	1:164:A:ILE:HD12	1	0.42
(1,37)	1:169:A:ASP:H	1:167:A:ILE:HD12	8	0.42
(1,20)	1:11:A:GLU:H	1:13:A:LEU:H	15	0.42
(1,14)	1:128:A:ARG:H	1:127:A:VAL:HB	8	0.42
(1,14)	1:128:A:ARG:H	1:127:A:VAL:HB	9	0.42
(1,14)	1:128:A:ARG:H	1:127:A:VAL:HB	10	0.42
(1,14)	1:128:A:ARG:H	1:127:A:VAL:HB	15	0.42
(1,14)	1:128:A:ARG:H	1:127:A:VAL:HB	17	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,26)	1:169:A:ASP:H	1:166:A:ILE:O	1	0.41
(2,26)	1:169:A:ASP:H	1:166:A:ILE:O	2	0.41
(2,26)	1:169:A:ASP:H	1:166:A:ILE:O	7	0.41
(2,26)	1:169:A:ASP:H	1:166:A:ILE:O	16	0.41
(2,25)	1:168:A:GLN:H	1:164:A:ILE:O	8	0.41
(1,3519)	1:44:A:TYR:HD2	1:44:A:TYR:HE2	7	0.41
(1,3519)	1:44:A:TYR:HD1	1:44:A:TYR:HE1	11	0.41
(1,3519)	1:44:A:TYR:HD2	1:44:A:TYR:HE2	18	0.41
(1,3451)	1:66:A:LEU:HB3	1:44:A:TYR:HD2	16	0.41
(1,3401)	1:126:A:ILE:HG22	1:143:A:GLY:H	9	0.41
(1,3383)	1:42:A:GLU:HG3	1:38:A:VAL:HG21	11	0.41
(1,3370)	1:174:A:LEU:HD23	1:171:A:ILE:HA	7	0.41
(1,3369)	1:174:A:LEU:HD21	1:95:A:THR:HG22	9	0.41
(1,3344)	1:149:A:MET:HE2	1:140:A:ILE:HG13	1	0.41
(1,3325)	1:112:A:SER:HA	1:53:A:MET:HE1	10	0.41
(1,3313)	1:109:A:ILE:HD11	1:104:A:LYS:HA	7	0.41
(1,3313)	1:109:A:ILE:HD12	1:104:A:LYS:HA	9	0.41
(1,3313)	1:109:A:ILE:HD11	1:104:A:LYS:HA	18	0.41
(1,3294)	1:65:A:ASP:HA	1:61:A:PHE:HE2	20	0.41
(1,3277)	1:111:A:ALA:HB1	1:100:A:PHE:HD2	7	0.41
(1,3268)	1:163:A:TRP:H	1:164:A:ILE:HD12	19	0.41
(1,3267)	1:167:A:ILE:HD12	1:171:A:ILE:H	14	0.41
(1,3267)	1:167:A:ILE:HD12	1:171:A:ILE:H	20	0.41
(1,3266)	1:52:A:ILE:HD13	1:60:A:MET:H	20	0.41
(1,3264)	1:20:A:VAL:HG23	1:27:A:VAL:HA	7	0.41
(1,3264)	1:20:A:VAL:HG21	1:27:A:VAL:HA	11	0.41
(1,3263)	1:149:A:MET:HE3	1:142:A:MET:HE2	13	0.41
(1,3250)	1:2:A:MET:HG2	1:2:A:MET:HB3	10	0.41
(1,3250)	1:2:A:MET:HG2	1:2:A:MET:HB3	13	0.41
(1,3237)	1:98:A:LEU:HD22	1:120:A:ILE:HG12	3	0.41
(1,3237)	1:98:A:LEU:HD21	1:120:A:ILE:HG12	14	0.41
(1,3237)	1:98:A:LEU:HD23	1:120:A:ILE:HG12	18	0.41
(1,3237)	1:98:A:LEU:HD23	1:120:A:ILE:HG12	20	0.41
(1,3230)	1:86:A:LEU:HD22	1:153:A:HIS:HD2	19	0.41
(1,3229)	1:86:A:LEU:HD21	1:153:A:HIS:HE1	1	0.41
(1,3229)	1:86:A:LEU:HD21	1:153:A:HIS:HE1	14	0.41
(1,3221)	1:152:A:VAL:HG23	1:150:A:VAL:H	10	0.41
(1,3207)	1:166:A:ILE:HG22	1:167:A:ILE:H	11	0.41
(1,3207)	1:166:A:ILE:HG21	1:167:A:ILE:H	12	0.41
(1,3198)	1:101:A:LEU:HD21	1:110:A:PHE:HZ	1	0.41
(1,3198)	1:101:A:LEU:HD21	1:110:A:PHE:HZ	4	0.41
(1,3172)	1:101:A:LEU:HD23	1:110:A:PHE:HE1	15	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3091)	1:55:A:MET:HE3	1:55:A:MET:HA	10	0.41
(1,3056)	1:144:A:MET:HE3	1:145:A:THR:HG21	5	0.41
(1,2983)	1:36:A:LYS:HD3	1:36:A:LYS:HA	12	0.41
(1,2975)	1:102:A:GLN:HG2	1:109:A:ILE:HD12	6	0.41
(1,2975)	1:102:A:GLN:HG2	1:109:A:ILE:HD12	8	0.41
(1,2975)	1:102:A:GLN:HG2	1:109:A:ILE:HD13	14	0.41
(1,2963)	1:65:A:ASP:HB3	1:66:A:LEU:HB3	4	0.41
(1,2942)	1:110:A:PHE:HB2	1:53:A:MET:HE2	18	0.41
(1,2942)	1:110:A:PHE:HB2	1:53:A:MET:HE3	20	0.41
(1,2924)	1:166:A:ILE:HD11	1:163:A:TRP:HA	3	0.41
(1,2851)	1:38:A:VAL:HG13	1:38:A:VAL:HA	7	0.41
(1,2851)	1:38:A:VAL:HG11	1:38:A:VAL:HA	9	0.41
(1,2851)	1:38:A:VAL:HG12	1:38:A:VAL:HA	14	0.41
(1,2837)	1:141:A:SER:HB2	1:144:A:MET:HE3	14	0.41
(1,2794)	1:34:A:TYR:HA	1:38:A:VAL:HG21	9	0.41
(1,2794)	1:34:A:TYR:HA	1:38:A:VAL:HG22	19	0.41
(1,2793)	1:120:A:ILE:HD13	1:118:A:THR:HA	8	0.41
(1,2793)	1:120:A:ILE:HD12	1:118:A:THR:HA	15	0.41
(1,2767)	1:36:A:LYS:HG2	1:36:A:LYS:HA	15	0.41
(1,2709)	1:4:A:LYS:HB3	1:4:A:LYS:HA	6	0.41
(1,2673)	1:144:A:MET:HB2	1:144:A:MET:HA	2	0.41
(1,2673)	1:144:A:MET:HB2	1:144:A:MET:HA	3	0.41
(1,2673)	1:144:A:MET:HB2	1:144:A:MET:HA	7	0.41
(1,2673)	1:144:A:MET:HB2	1:144:A:MET:HA	8	0.41
(1,2673)	1:144:A:MET:HB2	1:144:A:MET:HA	13	0.41
(1,2599)	1:69:A:LYS:HA	1:69:A:LYS:HE2	5	0.41
(1,2589)	1:113:A:LEU:HA	1:118:A:THR:HG23	4	0.41
(1,2589)	1:113:A:LEU:HA	1:118:A:THR:HG22	13	0.41
(1,2582)	1:53:A:MET:HA	1:53:A:MET:HE3	11	0.41
(1,2582)	1:53:A:MET:HA	1:53:A:MET:HE3	14	0.41
(1,2582)	1:53:A:MET:HA	1:53:A:MET:HE3	15	0.41
(1,2582)	1:53:A:MET:HA	1:53:A:MET:HE1	19	0.41
(1,2493)	1:128:A:ARG:HB2	1:128:A:ARG:HD3	5	0.41
(1,2477)	1:80:A:LYS:HE3	1:80:A:LYS:HB2	7	0.41
(1,2432)	1:63:A:LYS:HE3	1:49:A:SER:HA	16	0.41
(1,2424)	1:105:A:ASP:HB3	1:104:A:LYS:HG3	3	0.41
(1,2407)	1:38:A:VAL:HG11	1:41:A:ASN:HB3	4	0.41
(1,2394)	1:159:A:GLU:HG2	1:155:A:SER:HB2	16	0.41
(1,2383)	1:35:A:GLU:HG3	1:38:A:VAL:HG13	4	0.41
(1,2327)	1:4:A:LYS:HB2	1:8:A:VAL:HG13	6	0.41
(1,2311)	1:59:A:GLN:HG2	1:59:A:GLN:HB2	4	0.41
(1,2311)	1:59:A:GLN:HG2	1:59:A:GLN:HB2	7	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2311)	1:59:A:GLN:HG2	1:59:A:GLN:HB2	8	0.41
(1,2311)	1:59:A:GLN:HG2	1:59:A:GLN:HB2	15	0.41
(1,2278)	1:123:A:LYS:HB2	1:174:A:LEU:HD23	10	0.41
(1,2219)	1:166:A:ILE:HG12	1:166:A:ILE:HG23	2	0.41
(1,2219)	1:166:A:ILE:HG12	1:166:A:ILE:HG21	11	0.41
(1,2219)	1:166:A:ILE:HG12	1:166:A:ILE:HG21	18	0.41
(1,2189)	1:171:A:ILE:HG23	1:123:A:LYS:HD3	13	0.41
(1,2179)	1:80:A:LYS:HD3	1:80:A:LYS:HB2	10	0.41
(1,2157)	1:135:A:LYS:HD3	1:135:A:LYS:HB3	15	0.41
(1,2157)	1:135:A:LYS:HD3	1:135:A:LYS:HB3	18	0.41
(1,2153)	1:64:A:GLU:HB2	1:44:A:TYR:HE2	17	0.41
(1,2153)	1:64:A:GLU:HB2	1:44:A:TYR:HE2	19	0.41
(1,2153)	1:64:A:GLU:HB2	1:44:A:TYR:HE2	20	0.41
(1,2109)	1:24:A:ILE:HG12	1:24:A:ILE:HB	7	0.41
(1,2030)	1:124:A:LYS:HG3	1:123:A:LYS:HB3	16	0.41
(1,1994)	1:174:A:LEU:HD11	1:171:A:ILE:HB	5	0.41
(1,1994)	1:174:A:LEU:HD12	1:171:A:ILE:HB	20	0.41
(1,1970)	1:101:A:LEU:HD11	1:99:A:VAL:HG21	5	0.41
(1,1970)	1:101:A:LEU:HD13	1:99:A:VAL:HG21	15	0.41
(1,1958)	1:66:A:LEU:HD13	1:44:A:TYR:HB2	3	0.41
(1,1957)	1:66:A:LEU:HD11	1:66:A:LEU:HB3	13	0.41
(1,1949)	1:94:A:LEU:HD22	1:69:A:LYS:HA	11	0.41
(1,1949)	1:94:A:LEU:HD21	1:69:A:LYS:HA	12	0.41
(1,1949)	1:94:A:LEU:HD21	1:69:A:LYS:HA	14	0.41
(1,1949)	1:94:A:LEU:HD23	1:69:A:LYS:HA	17	0.41
(1,1949)	1:94:A:LEU:HD22	1:69:A:LYS:HA	20	0.41
(1,1946)	1:50:A:LYS:HG2	1:60:A:MET:HE1	7	0.41
(1,1946)	1:50:A:LYS:HG2	1:60:A:MET:HE1	13	0.41
(1,1946)	1:50:A:LYS:HG2	1:60:A:MET:HE1	16	0.41
(1,1937)	1:56:A:LYS:HG2	1:121:A:SER:HB3	3	0.41
(1,1932)	1:94:A:LEU:HD21	1:94:A:LEU:HA	8	0.41
(1,1932)	1:94:A:LEU:HD23	1:94:A:LEU:HA	11	0.41
(1,1932)	1:94:A:LEU:HD21	1:94:A:LEU:HA	15	0.41
(1,1921)	1:67:A:LYS:HG2	1:44:A:TYR:HE1	7	0.41
(1,1921)	1:67:A:LYS:HG2	1:44:A:TYR:HE1	13	0.41
(1,1891)	1:174:A:LEU:HD23	1:123:A:LYS:HE2	17	0.41
(1,1886)	1:174:A:LEU:HD22	1:174:A:LEU:HD11	18	0.41
(1,1825)	1:45:A:THR:HG22	1:46:A:LYS:HA	12	0.41
(1,1825)	1:45:A:THR:HG22	1:46:A:LYS:HA	14	0.41
(1,1825)	1:45:A:THR:HG21	1:46:A:LYS:HA	20	0.41
(1,1792)	1:122:A:LEU:HD12	1:122:A:LEU:HA	8	0.41
(1,1755)	1:99:A:VAL:HG21	1:99:A:VAL:HG13	4	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1755)	1:99:A:VAL:HG21	1:99:A:VAL:HG11	9	0.41
(1,1755)	1:99:A:VAL:HG21	1:99:A:VAL:HG13	11	0.41
(1,1747)	1:72:A:VAL:HG23	1:95:A:THR:HG21	2	0.41
(1,1747)	1:72:A:VAL:HG21	1:95:A:THR:HG23	8	0.41
(1,1747)	1:72:A:VAL:HG21	1:95:A:THR:HG23	11	0.41
(1,1742)	1:119:A:VAL:HG11	1:110:A:PHE:HE1	16	0.41
(1,1710)	1:89:A:VAL:HG21	1:79:A:LEU:HG	2	0.41
(1,1710)	1:89:A:VAL:HG23	1:79:A:LEU:HG	7	0.41
(1,1710)	1:89:A:VAL:HG21	1:79:A:LEU:HG	9	0.41
(1,1710)	1:89:A:VAL:HG22	1:79:A:LEU:HG	11	0.41
(1,1710)	1:89:A:VAL:HG21	1:79:A:LEU:HG	15	0.41
(1,1710)	1:89:A:VAL:HG22	1:79:A:LEU:HG	19	0.41
(1,1698)	1:91:A:ALA:HB2	1:98:A:LEU:HD21	10	0.41
(1,1692)	1:111:A:ALA:HB3	1:102:A:GLN:HG3	16	0.41
(1,1691)	1:111:A:ALA:HB3	1:102:A:GLN:HG2	16	0.41
(1,1680)	1:130:A:VAL:HG23	1:136:A:GLY:HA2	9	0.41
(1,1666)	1:97:A:ILE:HG22	1:119:A:VAL:HG23	2	0.41
(1,1642)	1:52:A:ILE:HG21	1:52:A:ILE:HG13	2	0.41
(1,1642)	1:52:A:ILE:HG22	1:52:A:ILE:HG13	5	0.41
(1,1642)	1:52:A:ILE:HG23	1:52:A:ILE:HG13	17	0.41
(1,1627)	1:43:A:ILE:HG21	1:108:A:TYR:HE2	14	0.41
(1,1620)	1:182:A:ILE:HG21	1:181:A:GLY:HA2	11	0.41
(1,1604)	1:149:A:MET:HE3	1:138:A:PHE:HA	11	0.41
(1,1596)	1:55:A:MET:HE1	1:61:A:PHE:HD2	8	0.41
(1,1539)	1:140:A:ILE:HD11	1:149:A:MET:HB2	10	0.41
(1,1504)	1:163:A:TRP:HE1	1:75:A:GLY:HA2	19	0.41
(1,1463)	1:85:A:ARG:H	1:85:A:ARG:HG3	1	0.41
(1,1456)	1:35:A:GLU:H	1:35:A:GLU:HB3	1	0.41
(1,1456)	1:35:A:GLU:H	1:35:A:GLU:HB3	6	0.41
(1,1456)	1:35:A:GLU:H	1:35:A:GLU:HB3	8	0.41
(1,1456)	1:35:A:GLU:H	1:35:A:GLU:HB3	10	0.41
(1,1456)	1:35:A:GLU:H	1:35:A:GLU:HB3	12	0.41
(1,1456)	1:35:A:GLU:H	1:35:A:GLU:HB3	14	0.41
(1,1456)	1:35:A:GLU:H	1:35:A:GLU:HB3	18	0.41
(1,1456)	1:35:A:GLU:H	1:35:A:GLU:HB3	19	0.41
(1,1456)	1:35:A:GLU:H	1:35:A:GLU:HB3	20	0.41
(1,1416)	1:79:A:LEU:H	1:89:A:VAL:HG22	1	0.41
(1,1350)	1:51:A:SER:H	1:109:A:ILE:HG23	1	0.41
(1,1311)	1:63:A:LYS:H	1:63:A:LYS:HD2	9	0.41
(1,1289)	1:93:A:LEU:H	1:98:A:LEU:HD22	8	0.41
(1,1199)	1:67:A:LYS:H	1:67:A:LYS:HB3	16	0.41
(1,1167)	1:78:A:PHE:H	1:77:A:VAL:HG11	6	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1075)	1:162:A:SER:H	1:161:A:ASN:HB2	2	0.41
(1,1042)	1:70:A:LYS:H	1:69:A:LYS:HB3	13	0.41
(1,1001)	1:119:A:VAL:H	1:119:A:VAL:HG22	11	0.41
(1,992)	1:27:A:VAL:H	1:26:A:ALA:HB1	19	0.41
(1,943)	1:178:A:GLU:H	1:178:A:GLU:HG2	16	0.41
(1,912)	1:50:A:LYS:H	1:50:A:LYS:HB3	7	0.41
(1,912)	1:50:A:LYS:H	1:50:A:LYS:HB3	13	0.41
(1,912)	1:50:A:LYS:H	1:50:A:LYS:HB3	15	0.41
(1,912)	1:50:A:LYS:H	1:50:A:LYS:HB3	18	0.41
(1,893)	1:176:A:ARG:H	1:175:A:ASN:HB2	7	0.41
(1,884)	1:129:A:GLU:H	1:128:A:ARG:HB2	18	0.41
(1,884)	1:129:A:GLU:H	1:128:A:ARG:HB2	19	0.41
(1,878)	1:43:A:ILE:H	1:43:A:ILE:HD12	11	0.41
(1,842)	1:110:A:PHE:H	1:109:A:ILE:HD11	10	0.41
(1,827)	1:86:A:LEU:H	1:86:A:LEU:HD22	5	0.41
(1,774)	1:42:A:GLU:H	1:42:A:GLU:HB3	10	0.41
(1,701)	1:137:A:LEU:H	1:130:A:VAL:HG22	10	0.41
(1,667)	1:24:A:ILE:H	1:27:A:VAL:HG22	5	0.41
(1,667)	1:24:A:ILE:H	1:27:A:VAL:HG21	8	0.41
(1,667)	1:24:A:ILE:H	1:27:A:VAL:HG22	15	0.41
(1,667)	1:24:A:ILE:H	1:27:A:VAL:HG21	19	0.41
(1,667)	1:24:A:ILE:H	1:27:A:VAL:HG22	20	0.41
(1,611)	1:81:A:ASN:H	1:86:A:LEU:HD22	7	0.41
(1,611)	1:81:A:ASN:H	1:86:A:LEU:HD22	8	0.41
(1,549)	1:61:A:PHE:H	1:52:A:ILE:HG22	4	0.41
(1,549)	1:61:A:PHE:H	1:52:A:ILE:HG22	9	0.41
(1,549)	1:61:A:PHE:H	1:52:A:ILE:HG23	16	0.41
(1,549)	1:61:A:PHE:H	1:52:A:ILE:HG22	19	0.41
(1,499)	1:36:A:LYS:HD3	1:36:A:LYS:HA	18	0.41
(1,481)	1:149:A:MET:HG3	1:138:A:PHE:HZ	5	0.41
(1,475)	1:109:A:ILE:HD11	1:51:A:SER:HB3	1	0.41
(1,459)	1:15:A:GLN:HB2	1:4:A:LYS:HE3	11	0.41
(1,459)	1:15:A:GLN:HB2	1:4:A:LYS:HE3	16	0.41
(1,432)	1:67:A:LYS:HE3	1:44:A:TYR:HD1	15	0.41
(1,412)	1:30:A:LYS:HG3	1:30:A:LYS:HD2	14	0.41
(1,405)	1:43:A:ILE:HD12	1:39:A:ARG:HG3	20	0.41
(1,390)	1:170:A:THR:HA	1:171:A:ILE:HD12	5	0.41
(1,365)	1:76:A:SER:HB3	1:78:A:PHE:HD1	5	0.41
(1,365)	1:76:A:SER:HB3	1:78:A:PHE:HD1	16	0.41
(1,363)	1:37:A:LYS:HA	1:37:A:LYS:HE3	14	0.41
(1,363)	1:37:A:LYS:HA	1:37:A:LYS:HE3	16	0.41
(1,337)	1:184:A:SER:HA	1:185:A:GLU:HB3	13	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,315)	1:82:A:ALA:HA	1:116:A:LYS:HG3	14	0.41
(1,293)	1:67:A:LYS:HE3	1:64:A:GLU:HA	15	0.41
(1,279)	1:157:A:LYS:HG2	1:157:A:LYS:HE2	15	0.41
(1,253)	1:115:A:GLN:HG2	1:113:A:LEU:HB2	2	0.41
(1,237)	1:20:A:VAL:HG23	1:20:A:VAL:HB	9	0.41
(1,208)	1:93:A:LEU:HD23	1:170:A:THR:HG21	4	0.41
(1,208)	1:93:A:LEU:HD21	1:73:A:ARG:HB2	7	0.41
(1,198)	1:56:A:LYS:HD2	1:121:A:SER:HB2	3	0.41
(1,175)	1:67:A:LYS:HG3	1:37:A:LYS:HG2	17	0.41
(1,171)	1:107:A:LYS:HG3	1:47:A:THR:HA	5	0.41
(1,170)	1:107:A:LYS:HG3	1:46:A:LYS:HA	18	0.41
(1,151)	1:50:A:LYS:HG2	1:49:A:SER:HB3	10	0.41
(1,140)	1:70:A:LYS:HG3	1:70:A:LYS:HD2	18	0.41
(1,139)	1:19:A:LEU:HD12	1:19:A:LEU:HG	12	0.41
(1,126)	1:95:A:THR:HG22	1:70:A:LYS:HD3	5	0.41
(1,126)	1:95:A:THR:HG21	1:70:A:LYS:HD2	19	0.41
(1,126)	1:95:A:THR:HG21	1:70:A:LYS:HD3	20	0.41
(1,125)	1:62:A:ALA:HB1	1:64:A:GLU:HG3	5	0.41
(1,110)	1:119:A:VAL:HG23	1:55:A:MET:HG2	19	0.41
(1,89)	1:127:A:VAL:H	1:127:A:VAL:HG23	14	0.41
(1,79)	1:116:A:LYS:H	1:116:A:LYS:HD2	9	0.41
(1,37)	1:169:A:ASP:H	1:167:A:ILE:HD12	15	0.41
(1,33)	1:107:A:LYS:H	1:106:A:GLN:HG3	9	0.41
(1,14)	1:128:A:ARG:H	1:127:A:VAL:HB	2	0.41
(1,14)	1:128:A:ARG:H	1:127:A:VAL:HB	4	0.41
(1,14)	1:128:A:ARG:H	1:127:A:VAL:HB	5	0.41
(1,14)	1:128:A:ARG:H	1:127:A:VAL:HB	7	0.41
(1,14)	1:128:A:ARG:H	1:127:A:VAL:HB	16	0.41
(2,21)	1:161:A:ASN:H	1:158:A:GLU:O	17	0.4
(2,13)	1:101:A:LEU:H	1:90:A:GLN:O	17	0.4
(2,4)	1:79:A:LEU:H	1:87:A:LYS:O	7	0.4
(1,3519)	1:44:A:TYR:HD1	1:44:A:TYR:HE1	1	0.4
(1,3519)	1:44:A:TYR:HD2	1:44:A:TYR:HE2	4	0.4
(1,3519)	1:44:A:TYR:HD1	1:44:A:TYR:HE1	5	0.4
(1,3519)	1:44:A:TYR:HD1	1:44:A:TYR:HE1	12	0.4
(1,3519)	1:44:A:TYR:HD2	1:44:A:TYR:HE2	13	0.4
(1,3519)	1:44:A:TYR:HD2	1:44:A:TYR:HE2	15	0.4
(1,3519)	1:44:A:TYR:HD1	1:44:A:TYR:HE1	19	0.4
(1,3519)	1:44:A:TYR:HD1	1:44:A:TYR:HE1	20	0.4
(1,3501)	1:86:A:LEU:HB2	1:78:A:PHE:HD2	7	0.4
(1,3399)	1:125:A:LEU:HD22	1:170:A:THR:HB	2	0.4
(1,3397)	1:45:A:THR:HG21	1:42:A:GLU:HG3	14	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3383)	1:42:A:GLU:HG3	1:38:A:VAL:HG23	2	0.4
(1,3383)	1:42:A:GLU:HG3	1:38:A:VAL:HG21	12	0.4
(1,3311)	1:102:A:GLN:HG3	1:109:A:ILE:HD13	15	0.4
(1,3308)	1:53:A:MET:HE3	1:119:A:VAL:H	1	0.4
(1,3308)	1:53:A:MET:HE1	1:119:A:VAL:H	14	0.4
(1,3308)	1:53:A:MET:HE2	1:119:A:VAL:H	19	0.4
(1,3283)	1:88:A:GLU:HG2	1:78:A:PHE:H	6	0.4
(1,3283)	1:88:A:GLU:HG2	1:78:A:PHE:H	11	0.4
(1,3278)	1:76:A:SER:H	1:77:A:VAL:HG22	19	0.4
(1,3277)	1:111:A:ALA:HB1	1:100:A:PHE:HD2	6	0.4
(1,3267)	1:167:A:ILE:HD13	1:171:A:ILE:H	13	0.4
(1,3265)	1:76:A:SER:HB2	1:76:A:SER:H	14	0.4
(1,3265)	1:76:A:SER:HB2	1:76:A:SER:H	20	0.4
(1,3264)	1:20:A:VAL:HG23	1:27:A:VAL:HA	2	0.4
(1,3264)	1:20:A:VAL:HG21	1:27:A:VAL:HA	9	0.4
(1,3237)	1:98:A:LEU:HD23	1:120:A:ILE:HG12	11	0.4
(1,3237)	1:98:A:LEU:HD23	1:120:A:ILE:HG12	12	0.4
(1,3222)	1:77:A:VAL:HG23	1:78:A:PHE:H	11	0.4
(1,3221)	1:152:A:VAL:HG21	1:150:A:VAL:H	14	0.4
(1,3198)	1:101:A:LEU:HD23	1:110:A:PHE:HZ	18	0.4
(1,3185)	1:142:A:MET:HA	1:147:A:PRO:HB2	15	0.4
(1,3172)	1:101:A:LEU:HD23	1:110:A:PHE:HE1	18	0.4
(1,3156)	1:142:A:MET:HE3	1:142:A:MET:HA	18	0.4
(1,3152)	1:97:A:ILE:HD13	1:65:A:ASP:HB3	6	0.4
(1,3152)	1:97:A:ILE:HD13	1:65:A:ASP:HB3	16	0.4
(1,3116)	1:87:A:LYS:HE3	1:113:A:LEU:HD22	7	0.4
(1,3102)	1:68:A:ARG:HD3	1:67:A:LYS:HG2	20	0.4
(1,3091)	1:55:A:MET:HE2	1:55:A:MET:HA	2	0.4
(1,3091)	1:55:A:MET:HE3	1:55:A:MET:HA	4	0.4
(1,3091)	1:55:A:MET:HE2	1:55:A:MET:HA	13	0.4
(1,3083)	1:5:A:ASP:HA	1:5:A:ASP:HB3	14	0.4
(1,3078)	1:134:A:GLU:HG3	1:134:A:GLU:HA	5	0.4
(1,3053)	1:55:A:MET:HE3	1:119:A:VAL:H	4	0.4
(1,2983)	1:36:A:LYS:HD3	1:36:A:LYS:HA	10	0.4
(1,2975)	1:102:A:GLN:HG2	1:109:A:ILE:HD12	13	0.4
(1,2942)	1:110:A:PHE:HB2	1:53:A:MET:HE1	6	0.4
(1,2942)	1:110:A:PHE:HB2	1:53:A:MET:HE3	11	0.4
(1,2851)	1:38:A:VAL:HG11	1:38:A:VAL:HA	4	0.4
(1,2851)	1:38:A:VAL:HG12	1:38:A:VAL:HA	16	0.4
(1,2851)	1:38:A:VAL:HG12	1:38:A:VAL:HA	18	0.4
(1,2826)	1:147:A:PRO:HA	1:140:A:ILE:HG23	18	0.4
(1,2825)	1:32:A:ALA:HB1	1:29:A:SER:HB2	10	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2794)	1:34:A:TYR:HA	1:38:A:VAL:HG21	1	0.4
(1,2794)	1:34:A:TYR:HA	1:38:A:VAL:HG22	15	0.4
(1,2794)	1:34:A:TYR:HA	1:38:A:VAL:HG22	17	0.4
(1,2794)	1:34:A:TYR:HA	1:38:A:VAL:HG21	18	0.4
(1,2767)	1:36:A:LYS:HG2	1:36:A:LYS:HA	2	0.4
(1,2767)	1:36:A:LYS:HG2	1:36:A:LYS:HA	5	0.4
(1,2767)	1:36:A:LYS:HG2	1:36:A:LYS:HA	17	0.4
(1,2758)	1:44:A:TYR:HA	1:44:A:TYR:HE2	9	0.4
(1,2713)	1:66:A:LEU:HD21	1:66:A:LEU:HA	16	0.4
(1,2673)	1:144:A:MET:HB2	1:144:A:MET:HA	5	0.4
(1,2673)	1:144:A:MET:HB2	1:144:A:MET:HA	9	0.4
(1,2673)	1:144:A:MET:HB2	1:144:A:MET:HA	10	0.4
(1,2673)	1:144:A:MET:HB2	1:144:A:MET:HA	15	0.4
(1,2673)	1:144:A:MET:HB2	1:144:A:MET:HA	20	0.4
(1,2657)	1:108:A:TYR:HA	1:109:A:ILE:HD11	4	0.4
(1,2599)	1:69:A:LYS:HA	1:69:A:LYS:HE2	14	0.4
(1,2589)	1:113:A:LEU:HA	1:118:A:THR:HG21	20	0.4
(1,2477)	1:80:A:LYS:HE3	1:80:A:LYS:HB2	17	0.4
(1,2477)	1:80:A:LYS:HE3	1:80:A:LYS:HB2	20	0.4
(1,2475)	1:80:A:LYS:HE2	1:86:A:LEU:HD12	17	0.4
(1,2473)	1:80:A:LYS:HE2	1:86:A:LEU:HD21	11	0.4
(1,2440)	1:28:A:ASP:HB3	1:25:A:GLY:HA3	1	0.4
(1,2440)	1:28:A:ASP:HB3	1:25:A:GLY:HA3	5	0.4
(1,2424)	1:105:A:ASP:HB3	1:104:A:LYS:HG3	4	0.4
(1,2419)	1:106:A:GLN:HG3	1:105:A:ASP:HB3	11	0.4
(1,2407)	1:38:A:VAL:HG12	1:41:A:ASN:HB3	14	0.4
(1,2401)	1:34:A:TYR:HB3	1:31:A:VAL:HG11	2	0.4
(1,2401)	1:34:A:TYR:HB3	1:31:A:VAL:HG11	3	0.4
(1,2401)	1:34:A:TYR:HB3	1:31:A:VAL:HG13	18	0.4
(1,2384)	1:35:A:GLU:HG3	1:38:A:VAL:HG23	5	0.4
(1,2384)	1:35:A:GLU:HG3	1:38:A:VAL:HG22	7	0.4
(1,2383)	1:35:A:GLU:HG3	1:38:A:VAL:HG11	20	0.4
(1,2353)	1:133:A:GLU:HG3	1:130:A:VAL:HG12	20	0.4
(1,2311)	1:59:A:GLN:HG2	1:59:A:GLN:HB2	2	0.4
(1,2311)	1:59:A:GLN:HG2	1:59:A:GLN:HB2	5	0.4
(1,2311)	1:59:A:GLN:HG2	1:59:A:GLN:HB2	9	0.4
(1,2311)	1:59:A:GLN:HG2	1:59:A:GLN:HB2	11	0.4
(1,2311)	1:59:A:GLN:HG2	1:59:A:GLN:HB2	12	0.4
(1,2311)	1:59:A:GLN:HG2	1:59:A:GLN:HB2	13	0.4
(1,2311)	1:59:A:GLN:HG2	1:59:A:GLN:HB2	14	0.4
(1,2311)	1:59:A:GLN:HG2	1:59:A:GLN:HB2	16	0.4
(1,2311)	1:59:A:GLN:HG2	1:59:A:GLN:HB2	17	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2311)	1:59:A:GLN:HG2	1:59:A:GLN:HB2	18	0.4
(1,2311)	1:59:A:GLN:HG2	1:59:A:GLN:HB2	19	0.4
(1,2294)	1:168:A:GLN:HG3	1:168:A:GLN:HA	15	0.4
(1,2266)	1:149:A:MET:HB3	1:138:A:PHE:HA	14	0.4
(1,2219)	1:166:A:ILE:HG12	1:166:A:ILE:HG23	12	0.4
(1,2219)	1:166:A:ILE:HG12	1:166:A:ILE:HG22	17	0.4
(1,2166)	1:67:A:LYS:HD3	1:67:A:LYS:HA	16	0.4
(1,2157)	1:135:A:LYS:HD3	1:135:A:LYS:HB3	8	0.4
(1,2124)	1:137:A:LEU:HD13	1:137:A:LEU:HB3	8	0.4
(1,2117)	1:139:A:LEU:HD11	1:100:A:PHE:HZ	13	0.4
(1,2076)	1:71:A:LEU:HG	1:39:A:ARG:HD3	16	0.4
(1,2017)	1:167:A:ILE:HG23	1:93:A:LEU:HD12	11	0.4
(1,1994)	1:174:A:LEU:HD12	1:171:A:ILE:HB	12	0.4
(1,1958)	1:66:A:LEU:HD12	1:44:A:TYR:HB2	8	0.4
(1,1958)	1:66:A:LEU:HD13	1:44:A:TYR:HB2	9	0.4
(1,1958)	1:66:A:LEU:HD11	1:44:A:TYR:HB2	10	0.4
(1,1957)	1:66:A:LEU:HD11	1:66:A:LEU:HB3	12	0.4
(1,1949)	1:94:A:LEU:HD22	1:69:A:LYS:HA	9	0.4
(1,1949)	1:94:A:LEU:HD23	1:69:A:LYS:HA	16	0.4
(1,1949)	1:94:A:LEU:HD21	1:69:A:LYS:HA	18	0.4
(1,1932)	1:94:A:LEU:HD22	1:94:A:LEU:HA	18	0.4
(1,1903)	1:86:A:LEU:HD13	1:78:A:PHE:HA	12	0.4
(1,1893)	1:94:A:LEU:HD11	1:71:A:LEU:HA	13	0.4
(1,1886)	1:174:A:LEU:HD21	1:174:A:LEU:HD11	8	0.4
(1,1877)	1:66:A:LEU:HD21	1:44:A:TYR:HA	15	0.4
(1,1877)	1:66:A:LEU:HD23	1:44:A:TYR:HA	19	0.4
(1,1866)	1:95:A:THR:HG23	1:72:A:VAL:HA	13	0.4
(1,1865)	1:95:A:THR:HG22	1:170:A:THR:HA	2	0.4
(1,1835)	1:173:A:THR:HG21	1:176:A:ARG:HD3	8	0.4
(1,1835)	1:173:A:THR:HG22	1:176:A:ARG:HD3	16	0.4
(1,1825)	1:45:A:THR:HG22	1:46:A:LYS:HA	4	0.4
(1,1825)	1:45:A:THR:HG22	1:46:A:LYS:HA	9	0.4
(1,1825)	1:45:A:THR:HG22	1:46:A:LYS:HA	15	0.4
(1,1823)	1:79:A:LEU:HD22	1:100:A:PHE:HZ	12	0.4
(1,1815)	1:173:A:THR:HG21	1:176:A:ARG:HB2	17	0.4
(1,1797)	1:113:A:LEU:HD21	1:81:A:ASN:HB3	16	0.4
(1,1787)	1:101:A:LEU:HD21	1:66:A:LEU:HD12	14	0.4
(1,1755)	1:99:A:VAL:HG22	1:99:A:VAL:HG13	1	0.4
(1,1755)	1:99:A:VAL:HG22	1:99:A:VAL:HG13	6	0.4
(1,1755)	1:99:A:VAL:HG22	1:99:A:VAL:HG13	13	0.4
(1,1755)	1:99:A:VAL:HG21	1:99:A:VAL:HG13	14	0.4
(1,1755)	1:99:A:VAL:HG23	1:99:A:VAL:HG11	18	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1755)	1:99:A:VAL:HG23	1:99:A:VAL:HG11	20	0.4
(1,1750)	1:145:A:THR:HG22	1:145:A:THR:HB	13	0.4
(1,1710)	1:89:A:VAL:HG23	1:79:A:LEU:HG	1	0.4
(1,1710)	1:89:A:VAL:HG23	1:79:A:LEU:HG	6	0.4
(1,1710)	1:89:A:VAL:HG22	1:79:A:LEU:HG	13	0.4
(1,1710)	1:89:A:VAL:HG21	1:79:A:LEU:HG	18	0.4
(1,1692)	1:111:A:ALA:HB2	1:102:A:GLN:HG3	2	0.4
(1,1692)	1:111:A:ALA:HB1	1:102:A:GLN:HG3	18	0.4
(1,1691)	1:111:A:ALA:HB2	1:102:A:GLN:HG2	2	0.4
(1,1687)	1:111:A:ALA:HB1	1:89:A:VAL:HG21	9	0.4
(1,1644)	1:52:A:ILE:HG23	1:60:A:MET:HG2	2	0.4
(1,1642)	1:52:A:ILE:HG23	1:52:A:ILE:HG13	1	0.4
(1,1642)	1:52:A:ILE:HG21	1:52:A:ILE:HG13	3	0.4
(1,1642)	1:52:A:ILE:HG21	1:52:A:ILE:HG13	10	0.4
(1,1642)	1:52:A:ILE:HG21	1:52:A:ILE:HG13	12	0.4
(1,1636)	1:126:A:ILE:HD12	1:140:A:ILE:HG12	19	0.4
(1,1627)	1:43:A:ILE:HG21	1:108:A:TYR:HE2	4	0.4
(1,1627)	1:43:A:ILE:HG22	1:108:A:TYR:HE2	6	0.4
(1,1627)	1:43:A:ILE:HG21	1:108:A:TYR:HE2	10	0.4
(1,1627)	1:43:A:ILE:HG23	1:108:A:TYR:HE2	15	0.4
(1,1627)	1:43:A:ILE:HG21	1:108:A:TYR:HE2	18	0.4
(1,1604)	1:149:A:MET:HE1	1:138:A:PHE:HA	18	0.4
(1,1602)	1:149:A:MET:HE3	1:138:A:PHE:HD2	9	0.4
(1,1602)	1:149:A:MET:HE3	1:138:A:PHE:HD2	14	0.4
(1,1602)	1:149:A:MET:HE1	1:138:A:PHE:HD2	20	0.4
(1,1594)	1:55:A:MET:HE2	1:120:A:ILE:HA	5	0.4
(1,1560)	1:97:A:ILE:HD12	1:69:A:LYS:HE3	14	0.4
(1,1539)	1:140:A:ILE:HD11	1:149:A:MET:HB2	1	0.4
(1,1539)	1:140:A:ILE:HD11	1:149:A:MET:HB2	20	0.4
(1,1518)	1:109:A:ILE:HD12	1:102:A:GLN:HB2	1	0.4
(1,1518)	1:109:A:ILE:HD13	1:102:A:GLN:HB2	11	0.4
(1,1482)	1:60:A:MET:H	1:59:A:GLN:HB3	7	0.4
(1,1476)	1:142:A:MET:H	1:142:A:MET:HG3	6	0.4
(1,1456)	1:35:A:GLU:H	1:35:A:GLU:HB3	2	0.4
(1,1456)	1:35:A:GLU:H	1:35:A:GLU:HB3	3	0.4
(1,1456)	1:35:A:GLU:H	1:35:A:GLU:HB3	5	0.4
(1,1456)	1:35:A:GLU:H	1:35:A:GLU:HB3	9	0.4
(1,1456)	1:35:A:GLU:H	1:35:A:GLU:HB3	16	0.4
(1,1416)	1:79:A:LEU:H	1:89:A:VAL:HG22	4	0.4
(1,1416)	1:79:A:LEU:H	1:89:A:VAL:HG22	10	0.4
(1,1311)	1:63:A:LYS:H	1:63:A:LYS:HD2	12	0.4
(1,1307)	1:63:A:LYS:H	1:47:A:THR:HG22	19	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1284)	1:44:A:TYR:H	1:44:A:TYR:HD1	8	0.4
(1,1275)	1:163:A:TRP:HE1	1:154:A:ALA:HB2	20	0.4
(1,1216)	1:118:A:THR:H	1:117:A:SER:HB2	5	0.4
(1,1208)	1:25:A:GLY:H	1:24:A:ILE:HD11	7	0.4
(1,1208)	1:25:A:GLY:H	1:24:A:ILE:HD12	9	0.4
(1,1167)	1:78:A:PHE:H	1:77:A:VAL:HG11	13	0.4
(1,1088)	1:166:A:ILE:H	1:166:A:ILE:HD12	20	0.4
(1,1061)	1:172:A:ASN:H	1:171:A:ILE:HD13	7	0.4
(1,1061)	1:172:A:ASN:H	1:171:A:ILE:HD11	18	0.4
(1,943)	1:178:A:GLU:H	1:178:A:GLU:HG2	15	0.4
(1,925)	1:177:A:ASP:H	1:176:A:ARG:HG2	5	0.4
(1,884)	1:129:A:GLU:H	1:128:A:ARG:HB2	5	0.4
(1,884)	1:129:A:GLU:H	1:128:A:ARG:HB2	10	0.4
(1,878)	1:43:A:ILE:H	1:43:A:ILE:HD11	16	0.4
(1,852)	1:159:A:GLU:H	1:154:A:ALA:HB2	17	0.4
(1,852)	1:159:A:GLU:H	1:154:A:ALA:HB3	20	0.4
(1,825)	1:86:A:LEU:H	1:86:A:LEU:HB3	4	0.4
(1,823)	1:86:A:LEU:H	1:85:A:ARG:HB2	2	0.4
(1,774)	1:42:A:GLU:H	1:42:A:GLU:HB3	6	0.4
(1,774)	1:42:A:GLU:H	1:42:A:GLU:HB3	9	0.4
(1,774)	1:42:A:GLU:H	1:42:A:GLU:HB3	14	0.4
(1,712)	1:74:A:ASP:H	1:71:A:LEU:HD11	19	0.4
(1,549)	1:61:A:PHE:H	1:52:A:ILE:HG23	10	0.4
(1,549)	1:61:A:PHE:H	1:52:A:ILE:HG23	11	0.4
(1,516)	1:153:A:HIS:HD2	1:133:A:GLU:HB3	5	0.4
(1,505)	1:37:A:LYS:HE2	1:34:A:TYR:HD2	7	0.4
(1,505)	1:37:A:LYS:HE3	1:34:A:TYR:HD2	12	0.4
(1,505)	1:37:A:LYS:HE2	1:34:A:TYR:HD2	16	0.4
(1,485)	1:64:A:GLU:HG2	1:67:A:LYS:HD3	20	0.4
(1,481)	1:149:A:MET:HG3	1:138:A:PHE:HZ	7	0.4
(1,481)	1:149:A:MET:HG3	1:138:A:PHE:HZ	12	0.4
(1,481)	1:149:A:MET:HG3	1:138:A:PHE:HZ	14	0.4
(1,475)	1:109:A:ILE:HD13	1:51:A:SER:HB3	2	0.4
(1,455)	1:151:A:GLU:HB2	1:116:A:LYS:HD3	18	0.4
(1,446)	1:22:A:ASP:HA	1:21:A:LYS:HG3	13	0.4
(1,431)	1:67:A:LYS:HE3	1:44:A:TYR:HE1	1	0.4
(1,391)	1:64:A:GLU:HG2	1:44:A:TYR:HE1	7	0.4
(1,371)	1:19:A:LEU:HB2	1:18:A:SER:HB2	10	0.4
(1,365)	1:76:A:SER:HB3	1:78:A:PHE:HD1	2	0.4
(1,353)	1:67:A:LYS:HE3	1:67:A:LYS:HA	11	0.4
(1,349)	1:8:A:VAL:HG22	1:8:A:VAL:HA	19	0.4
(1,339)	1:157:A:LYS:HA	1:134:A:GLU:HB2	5	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,306)	1:24:A:ILE:HG21	1:25:A:GLY:HA3	16	0.4
(1,293)	1:67:A:LYS:HE3	1:64:A:GLU:HA	6	0.4
(1,293)	1:67:A:LYS:HE3	1:64:A:GLU:HA	14	0.4
(1,290)	1:83:A:ALA:HB2	1:85:A:ARG:HD3	3	0.4
(1,279)	1:157:A:LYS:HG2	1:157:A:LYS:HE2	7	0.4
(1,253)	1:115:A:GLN:HG2	1:113:A:LEU:HB2	14	0.4
(1,230)	1:67:A:LYS:HB3	1:67:A:LYS:HE2	7	0.4
(1,230)	1:67:A:LYS:HB3	1:67:A:LYS:HE2	13	0.4
(1,222)	1:159:A:GLU:HB3	1:162:A:SER:HB3	2	0.4
(1,217)	1:37:A:LYS:HD3	1:37:A:LYS:HA	2	0.4
(1,175)	1:67:A:LYS:HG3	1:37:A:LYS:HG2	16	0.4
(1,161)	1:71:A:LEU:HD11	1:93:A:LEU:H	6	0.4
(1,154)	1:71:A:LEU:HD12	1:74:A:ASP:HB2	7	0.4
(1,154)	1:71:A:LEU:HD12	1:74:A:ASP:HB2	13	0.4
(1,139)	1:19:A:LEU:HD13	1:19:A:LEU:HG	1	0.4
(1,139)	1:19:A:LEU:HD13	1:19:A:LEU:HG	8	0.4
(1,139)	1:19:A:LEU:HD12	1:19:A:LEU:HG	17	0.4
(1,139)	1:19:A:LEU:HD11	1:19:A:LEU:HG	19	0.4
(1,126)	1:95:A:THR:HG22	1:70:A:LYS:HD3	4	0.4
(1,101)	1:164:A:ILE:HD12	1:129:A:GLU:HB3	18	0.4
(1,89)	1:127:A:VAL:H	1:127:A:VAL:HG23	17	0.4
(1,85)	1:142:A:MET:H	1:141:A:SER:HB2	1	0.4
(1,85)	1:142:A:MET:H	1:141:A:SER:HB2	5	0.4
(1,79)	1:116:A:LYS:H	1:116:A:LYS:HD2	5	0.4
(1,79)	1:116:A:LYS:H	1:116:A:LYS:HD2	17	0.4
(1,46)	1:175:A:ASN:H	1:174:A:LEU:HG	9	0.4
(1,44)	1:117:A:SER:H	1:116:A:LYS:HD3	10	0.4
(1,37)	1:169:A:ASP:H	1:167:A:ILE:HD13	13	0.4
(1,32)	1:139:A:LEU:H	1:138:A:PHE:HD1	1	0.4
(1,3519)	1:44:A:TYR:HD1	1:44:A:TYR:HE1	2	0.39
(1,3519)	1:44:A:TYR:HD2	1:44:A:TYR:HE2	3	0.39
(1,3519)	1:44:A:TYR:HD2	1:44:A:TYR:HE2	6	0.39
(1,3519)	1:44:A:TYR:HD2	1:44:A:TYR:HE2	8	0.39
(1,3519)	1:44:A:TYR:HD2	1:44:A:TYR:HE2	10	0.39
(1,3519)	1:44:A:TYR:HD2	1:44:A:TYR:HE2	14	0.39
(1,3519)	1:44:A:TYR:HD2	1:44:A:TYR:HE2	17	0.39
(1,3419)	1:135:A:LYS:HD3	1:135:A:LYS:HA	1	0.39
(1,3401)	1:126:A:ILE:HG22	1:143:A:GLY:H	2	0.39
(1,3369)	1:174:A:LEU:HD22	1:95:A:THR:HG23	20	0.39
(1,3321)	1:60:A:MET:HE2	1:60:A:MET:HA	4	0.39
(1,3313)	1:109:A:ILE:HD13	1:104:A:LYS:HA	6	0.39
(1,3308)	1:53:A:MET:HE3	1:119:A:VAL:H	3	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3294)	1:65:A:ASP:HA	1:61:A:PHE:HE2	11	0.39
(1,3283)	1:88:A:GLU:HG2	1:78:A:PHE:H	12	0.39
(1,3250)	1:2:A:MET:HG2	1:2:A:MET:HB3	17	0.39
(1,3248)	1:2:A:MET:HG3	1:2:A:MET:HB2	2	0.39
(1,3248)	1:2:A:MET:HG3	1:2:A:MET:HB2	15	0.39
(1,3242)	1:113:A:LEU:HD11	1:81:A:ASN:H	3	0.39
(1,3231)	1:86:A:LEU:HD21	1:153:A:HIS:HA	1	0.39
(1,3231)	1:86:A:LEU:HD23	1:153:A:HIS:HA	5	0.39
(1,3216)	1:15:A:GLN:HB3	1:2:A:MET:HG3	4	0.39
(1,3207)	1:166:A:ILE:HG21	1:167:A:ILE:H	2	0.39
(1,3198)	1:101:A:LEU:HD22	1:110:A:PHE:HZ	8	0.39
(1,3198)	1:101:A:LEU:HD21	1:110:A:PHE:HZ	14	0.39
(1,3172)	1:101:A:LEU:HD21	1:110:A:PHE:HE1	4	0.39
(1,3172)	1:101:A:LEU:HD23	1:110:A:PHE:HE1	7	0.39
(1,3172)	1:101:A:LEU:HD21	1:110:A:PHE:HE1	17	0.39
(1,3152)	1:97:A:ILE:HD12	1:65:A:ASP:HB3	17	0.39
(1,3127)	1:38:A:VAL:HG11	1:35:A:GLU:HG2	17	0.39
(1,3100)	1:128:A:ARG:HB3	1:128:A:ARG:HD2	19	0.39
(1,3094)	1:66:A:LEU:HB3	1:61:A:PHE:HE1	2	0.39
(1,3094)	1:66:A:LEU:HB3	1:61:A:PHE:HE1	6	0.39
(1,3094)	1:66:A:LEU:HB3	1:61:A:PHE:HE1	19	0.39
(1,3094)	1:66:A:LEU:HB3	1:61:A:PHE:HE1	20	0.39
(1,3091)	1:55:A:MET:HE1	1:55:A:MET:HA	12	0.39
(1,3091)	1:55:A:MET:HE3	1:55:A:MET:HA	15	0.39
(1,3083)	1:5:A:ASP:HA	1:5:A:ASP:HB3	18	0.39
(1,3078)	1:134:A:GLU:HG3	1:134:A:GLU:HA	3	0.39
(1,3053)	1:55:A:MET:HE2	1:119:A:VAL:H	3	0.39
(1,3052)	1:55:A:MET:HE2	1:61:A:PHE:HZ	4	0.39
(1,3051)	1:55:A:MET:HE3	1:59:A:GLN:HE22	7	0.39
(1,3021)	1:140:A:ILE:HD13	1:138:A:PHE:HE2	18	0.39
(1,2983)	1:36:A:LYS:HD3	1:36:A:LYS:HA	19	0.39
(1,2975)	1:102:A:GLN:HG2	1:109:A:ILE:HD13	19	0.39
(1,2963)	1:65:A:ASP:HB3	1:66:A:LEU:HB3	7	0.39
(1,2956)	1:41:A:ASN:HB2	1:44:A:TYR:HD1	16	0.39
(1,2956)	1:41:A:ASN:HB2	1:44:A:TYR:HD1	17	0.39
(1,2942)	1:110:A:PHE:HB2	1:53:A:MET:HE1	12	0.39
(1,2942)	1:110:A:PHE:HB2	1:53:A:MET:HE3	14	0.39
(1,2918)	1:141:A:SER:HB2	1:140:A:ILE:HG23	18	0.39
(1,2851)	1:38:A:VAL:HG11	1:38:A:VAL:HA	10	0.39
(1,2851)	1:38:A:VAL:HG12	1:38:A:VAL:HA	20	0.39
(1,2843)	1:31:A:VAL:HA	1:34:A:TYR:HE1	20	0.39
(1,2832)	1:119:A:VAL:HA	1:120:A:ILE:HD13	17	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2826)	1:147:A:PRO:HA	1:140:A:ILE:HG23	14	0.39
(1,2825)	1:32:A:ALA:HB3	1:29:A:SER:HB2	16	0.39
(1,2794)	1:34:A:TYR:HA	1:38:A:VAL:HG21	5	0.39
(1,2794)	1:34:A:TYR:HA	1:38:A:VAL:HG21	6	0.39
(1,2794)	1:34:A:TYR:HA	1:38:A:VAL:HG23	7	0.39
(1,2794)	1:34:A:TYR:HA	1:38:A:VAL:HG23	11	0.39
(1,2794)	1:34:A:TYR:HA	1:38:A:VAL:HG23	14	0.39
(1,2794)	1:34:A:TYR:HA	1:38:A:VAL:HG23	16	0.39
(1,2793)	1:120:A:ILE:HD12	1:118:A:THR:HA	17	0.39
(1,2774)	1:77:A:VAL:HA	1:89:A:VAL:HG23	15	0.39
(1,2767)	1:36:A:LYS:HG2	1:36:A:LYS:HA	4	0.39
(1,2767)	1:36:A:LYS:HG2	1:36:A:LYS:HA	8	0.39
(1,2767)	1:36:A:LYS:HG2	1:36:A:LYS:HA	9	0.39
(1,2767)	1:36:A:LYS:HG2	1:36:A:LYS:HA	14	0.39
(1,2767)	1:36:A:LYS:HG2	1:36:A:LYS:HA	16	0.39
(1,2760)	1:20:A:VAL:HA	1:20:A:VAL:HB	20	0.39
(1,2721)	1:61:A:PHE:HA	1:61:A:PHE:HE2	7	0.39
(1,2721)	1:61:A:PHE:HA	1:61:A:PHE:HE2	11	0.39
(1,2721)	1:61:A:PHE:HA	1:61:A:PHE:HE2	14	0.39
(1,2721)	1:61:A:PHE:HA	1:61:A:PHE:HE2	20	0.39
(1,2715)	1:4:A:LYS:HA	1:8:A:VAL:HG12	20	0.39
(1,2713)	1:66:A:LEU:HD23	1:66:A:LEU:HA	15	0.39
(1,2677)	1:144:A:MET:HG2	1:144:A:MET:HA	12	0.39
(1,2673)	1:144:A:MET:HB2	1:144:A:MET:HA	4	0.39
(1,2673)	1:144:A:MET:HB2	1:144:A:MET:HA	14	0.39
(1,2673)	1:144:A:MET:HB2	1:144:A:MET:HA	16	0.39
(1,2657)	1:108:A:TYR:HA	1:109:A:ILE:HD11	14	0.39
(1,2589)	1:113:A:LEU:HA	1:118:A:THR:HG23	3	0.39
(1,2589)	1:113:A:LEU:HA	1:118:A:THR:HG22	11	0.39
(1,2589)	1:113:A:LEU:HA	1:118:A:THR:HG22	19	0.39
(1,2582)	1:53:A:MET:HA	1:53:A:MET:HE2	1	0.39
(1,2582)	1:53:A:MET:HA	1:53:A:MET:HE1	12	0.39
(1,2582)	1:53:A:MET:HA	1:53:A:MET:HE2	18	0.39
(1,2469)	1:22:A:ASP:HB2	1:24:A:ILE:HG12	15	0.39
(1,2407)	1:38:A:VAL:HG11	1:41:A:ASN:HB3	2	0.39
(1,2401)	1:34:A:TYR:HB3	1:31:A:VAL:HG11	9	0.39
(1,2384)	1:35:A:GLU:HG3	1:38:A:VAL:HG21	3	0.39
(1,2384)	1:35:A:GLU:HG3	1:38:A:VAL:HG21	15	0.39
(1,2383)	1:35:A:GLU:HG3	1:38:A:VAL:HG13	10	0.39
(1,2361)	1:129:A:GLU:HG3	1:129:A:GLU:HB3	3	0.39
(1,2361)	1:129:A:GLU:HG3	1:129:A:GLU:HB3	5	0.39
(1,2361)	1:129:A:GLU:HG3	1:129:A:GLU:HB3	6	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2361)	1:129:A:GLU:HG3	1:129:A:GLU:HB3	8	0.39
(1,2361)	1:129:A:GLU:HG3	1:129:A:GLU:HB3	9	0.39
(1,2361)	1:129:A:GLU:HG3	1:129:A:GLU:HB3	11	0.39
(1,2361)	1:129:A:GLU:HG3	1:129:A:GLU:HB3	12	0.39
(1,2361)	1:129:A:GLU:HG3	1:129:A:GLU:HB3	15	0.39
(1,2361)	1:129:A:GLU:HG3	1:129:A:GLU:HB3	20	0.39
(1,2359)	1:134:A:GLU:HG3	1:157:A:LYS:HB3	18	0.39
(1,2311)	1:59:A:GLN:HG2	1:59:A:GLN:HB2	1	0.39
(1,2311)	1:59:A:GLN:HG2	1:59:A:GLN:HB2	3	0.39
(1,2311)	1:59:A:GLN:HG2	1:59:A:GLN:HB2	10	0.39
(1,2311)	1:59:A:GLN:HG2	1:59:A:GLN:HB2	20	0.39
(1,2294)	1:168:A:GLN:HG3	1:168:A:GLN:HA	8	0.39
(1,2266)	1:149:A:MET:HB3	1:138:A:PHE:HA	19	0.39
(1,2253)	1:176:A:ARG:HB3	1:173:A:THR:HG21	20	0.39
(1,2251)	1:11:A:GLU:HB2	1:19:A:LEU:HD13	6	0.39
(1,2219)	1:166:A:ILE:HG12	1:166:A:ILE:HG21	15	0.39
(1,2189)	1:171:A:ILE:HG23	1:123:A:LYS:HD3	11	0.39
(1,2166)	1:67:A:LYS:HD3	1:67:A:LYS:HA	12	0.39
(1,2157)	1:135:A:LYS:HD3	1:135:A:LYS:HB3	12	0.39
(1,2141)	1:56:A:LYS:HD3	1:144:A:MET:HE1	9	0.39
(1,2119)	1:137:A:LEU:HD13	1:163:A:TRP:HB3	6	0.39
(1,1995)	1:174:A:LEU:HD11	1:12:A:ASP:HB2	9	0.39
(1,1958)	1:66:A:LEU:HD13	1:44:A:TYR:HB2	15	0.39
(1,1950)	1:94:A:LEU:HD22	1:71:A:LEU:HA	15	0.39
(1,1949)	1:94:A:LEU:HD23	1:69:A:LYS:HA	5	0.39
(1,1932)	1:94:A:LEU:HD22	1:94:A:LEU:HA	14	0.39
(1,1921)	1:67:A:LYS:HG2	1:44:A:TYR:HE2	11	0.39
(1,1891)	1:174:A:LEU:HD23	1:123:A:LYS:HE2	7	0.39
(1,1886)	1:174:A:LEU:HD21	1:174:A:LEU:HD11	10	0.39
(1,1877)	1:66:A:LEU:HD23	1:44:A:TYR:HA	4	0.39
(1,1835)	1:173:A:THR:HG23	1:176:A:ARG:HD3	17	0.39
(1,1825)	1:45:A:THR:HG21	1:46:A:LYS:HA	11	0.39
(1,1825)	1:45:A:THR:HG21	1:46:A:LYS:HA	17	0.39
(1,1819)	1:79:A:LEU:HD22	1:150:A:VAL:HG11	3	0.39
(1,1787)	1:101:A:LEU:HD22	1:66:A:LEU:HD11	2	0.39
(1,1787)	1:101:A:LEU:HD22	1:66:A:LEU:HD13	6	0.39
(1,1755)	1:99:A:VAL:HG23	1:99:A:VAL:HG11	10	0.39
(1,1755)	1:99:A:VAL:HG22	1:99:A:VAL:HG12	15	0.39
(1,1755)	1:99:A:VAL:HG22	1:99:A:VAL:HG11	16	0.39
(1,1752)	1:89:A:VAL:HG12	1:79:A:LEU:HD13	18	0.39
(1,1742)	1:119:A:VAL:HG12	1:110:A:PHE:HE1	10	0.39
(1,1742)	1:119:A:VAL:HG12	1:110:A:PHE:HE1	20	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1741)	1:119:A:VAL:HG13	1:110:A:PHE:HD1	5	0.39
(1,1731)	1:31:A:VAL:HG11	1:32:A:ALA:HA	2	0.39
(1,1710)	1:89:A:VAL:HG22	1:79:A:LEU:HG	17	0.39
(1,1692)	1:111:A:ALA:HB1	1:102:A:GLN:HG3	11	0.39
(1,1692)	1:111:A:ALA:HB1	1:102:A:GLN:HG3	13	0.39
(1,1687)	1:111:A:ALA:HB3	1:89:A:VAL:HG23	7	0.39
(1,1680)	1:130:A:VAL:HG23	1:136:A:GLY:HA2	7	0.39
(1,1644)	1:52:A:ILE:HG21	1:60:A:MET:HG2	6	0.39
(1,1642)	1:52:A:ILE:HG23	1:52:A:ILE:HG13	14	0.39
(1,1642)	1:52:A:ILE:HG23	1:52:A:ILE:HG13	19	0.39
(1,1640)	1:82:A:ALA:HB1	1:81:A:ASN:HB3	16	0.39
(1,1627)	1:43:A:ILE:HG21	1:108:A:TYR:HE2	1	0.39
(1,1627)	1:43:A:ILE:HG23	1:108:A:TYR:HE2	5	0.39
(1,1627)	1:43:A:ILE:HG21	1:108:A:TYR:HE2	9	0.39
(1,1627)	1:43:A:ILE:HG21	1:108:A:TYR:HE2	13	0.39
(1,1620)	1:182:A:ILE:HG21	1:181:A:GLY:HA2	10	0.39
(1,1620)	1:182:A:ILE:HG22	1:181:A:GLY:HA2	13	0.39
(1,1614)	1:171:A:ILE:HG21	1:174:A:LEU:HD13	2	0.39
(1,1610)	1:60:A:MET:HE3	1:60:A:MET:HG3	18	0.39
(1,1602)	1:149:A:MET:HE3	1:138:A:PHE:HD2	3	0.39
(1,1602)	1:149:A:MET:HE3	1:138:A:PHE:HD2	4	0.39
(1,1602)	1:149:A:MET:HE2	1:138:A:PHE:HD2	5	0.39
(1,1602)	1:149:A:MET:HE1	1:138:A:PHE:HD2	13	0.39
(1,1602)	1:149:A:MET:HE1	1:138:A:PHE:HD2	16	0.39
(1,1594)	1:55:A:MET:HE2	1:120:A:ILE:HA	13	0.39
(1,1530)	1:167:A:ILE:HD13	1:168:A:GLN:HB3	3	0.39
(1,1530)	1:167:A:ILE:HD12	1:168:A:GLN:HB3	9	0.39
(1,1518)	1:109:A:ILE:HD12	1:102:A:GLN:HB2	10	0.39
(1,1518)	1:109:A:ILE:HD12	1:102:A:GLN:HB2	13	0.39
(1,1456)	1:35:A:GLU:H	1:35:A:GLU:HB3	13	0.39
(1,1416)	1:79:A:LEU:H	1:89:A:VAL:HG22	6	0.39
(1,1342)	1:100:A:PHE:H	1:98:A:LEU:HD22	18	0.39
(1,1311)	1:63:A:LYS:H	1:63:A:LYS:HD2	16	0.39
(1,1307)	1:63:A:LYS:H	1:47:A:THR:HG23	2	0.39
(1,1294)	1:155:A:SER:H	1:155:A:SER:HB3	2	0.39
(1,1284)	1:44:A:TYR:H	1:44:A:TYR:HD1	18	0.39
(1,1275)	1:163:A:TRP:HE1	1:154:A:ALA:HB1	2	0.39
(1,1275)	1:163:A:TRP:HE1	1:154:A:ALA:HB1	14	0.39
(1,1167)	1:78:A:PHE:H	1:77:A:VAL:HG12	1	0.39
(1,1117)	1:65:A:ASP:H	1:64:A:GLU:HB2	9	0.39
(1,1061)	1:172:A:ASN:H	1:171:A:ILE:HD12	8	0.39
(1,1001)	1:119:A:VAL:H	1:119:A:VAL:HG23	17	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,912)	1:50:A:LYS:H	1:50:A:LYS:HB3	17	0.39
(1,852)	1:159:A:GLU:H	1:154:A:ALA:HB2	13	0.39
(1,842)	1:110:A:PHE:H	1:109:A:ILE:HD11	6	0.39
(1,825)	1:86:A:LEU:H	1:86:A:LEU:HB3	1	0.39
(1,825)	1:86:A:LEU:H	1:86:A:LEU:HB3	13	0.39
(1,825)	1:86:A:LEU:H	1:86:A:LEU:HB3	14	0.39
(1,825)	1:86:A:LEU:H	1:86:A:LEU:HB3	15	0.39
(1,825)	1:86:A:LEU:H	1:86:A:LEU:HB3	19	0.39
(1,823)	1:86:A:LEU:H	1:85:A:ARG:HB2	19	0.39
(1,774)	1:42:A:GLU:H	1:42:A:GLU:HB3	1	0.39
(1,774)	1:42:A:GLU:H	1:42:A:GLU:HB3	2	0.39
(1,774)	1:42:A:GLU:H	1:42:A:GLU:HB3	3	0.39
(1,774)	1:42:A:GLU:H	1:42:A:GLU:HB3	4	0.39
(1,774)	1:42:A:GLU:H	1:42:A:GLU:HB3	15	0.39
(1,774)	1:42:A:GLU:H	1:42:A:GLU:HB3	17	0.39
(1,774)	1:42:A:GLU:H	1:42:A:GLU:HB3	20	0.39
(1,712)	1:74:A:ASP:H	1:71:A:LEU:HD11	3	0.39
(1,700)	1:137:A:LEU:H	1:137:A:LEU:HD23	2	0.39
(1,700)	1:137:A:LEU:H	1:137:A:LEU:HD22	10	0.39
(1,667)	1:24:A:ILE:H	1:27:A:VAL:HG23	1	0.39
(1,667)	1:24:A:ILE:H	1:27:A:VAL:HG21	2	0.39
(1,564)	1:104:A:LYS:H	1:103:A:GLU:HG3	4	0.39
(1,549)	1:61:A:PHE:H	1:52:A:ILE:HG23	15	0.39
(1,549)	1:61:A:PHE:H	1:52:A:ILE:HG22	20	0.39
(1,542)	1:61:A:PHE:H	1:61:A:PHE:HD1	7	0.39
(1,516)	1:153:A:HIS:HD2	1:133:A:GLU:HB3	1	0.39
(1,516)	1:153:A:HIS:HD2	1:133:A:GLU:HB3	7	0.39
(1,516)	1:153:A:HIS:HD2	1:133:A:GLU:HB2	12	0.39
(1,516)	1:153:A:HIS:HD2	1:133:A:GLU:HB3	20	0.39
(1,506)	1:35:A:GLU:HA	1:34:A:TYR:HD2	8	0.39
(1,485)	1:64:A:GLU:HG2	1:67:A:LYS:HD3	11	0.39
(1,481)	1:149:A:MET:HG3	1:138:A:PHE:HZ	10	0.39
(1,475)	1:109:A:ILE:HD12	1:51:A:SER:HB3	7	0.39
(1,446)	1:22:A:ASP:HA	1:21:A:LYS:HG3	10	0.39
(1,445)	1:70:A:LYS:HA	1:70:A:LYS:HD3	3	0.39
(1,432)	1:67:A:LYS:HE3	1:44:A:TYR:HD1	11	0.39
(1,431)	1:67:A:LYS:HE3	1:44:A:TYR:HE1	16	0.39
(1,365)	1:76:A:SER:HB3	1:78:A:PHE:HD1	12	0.39
(1,363)	1:37:A:LYS:HA	1:37:A:LYS:HE3	7	0.39
(1,345)	1:159:A:GLU:HG2	1:162:A:SER:HB2	19	0.39
(1,339)	1:157:A:LYS:HA	1:134:A:GLU:HB2	7	0.39
(1,317)	1:14:A:ALA:HA	1:8:A:VAL:HG12	18	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,306)	1:24:A:ILE:HG23	1:25:A:GLY:HA3	18	0.39
(1,302)	1:25:A:GLY:HA2	1:28:A:ASP:HB3	3	0.39
(1,299)	1:85:A:ARG:HD2	1:84:A:GLY:HA2	2	0.39
(1,272)	1:87:A:LYS:HE3	1:111:A:ALA:HB1	5	0.39
(1,217)	1:37:A:LYS:HD3	1:37:A:LYS:HA	13	0.39
(1,217)	1:37:A:LYS:HD3	1:37:A:LYS:HA	20	0.39
(1,210)	1:70:A:LYS:HD2	1:8:A:VAL:HG11	15	0.39
(1,208)	1:93:A:LEU:HD22	1:73:A:ARG:HB2	16	0.39
(1,168)	1:107:A:LYS:HG2	1:106:A:GLN:HG3	2	0.39
(1,148)	1:30:A:LYS:HG2	1:30:A:LYS:HD3	12	0.39
(1,142)	1:56:A:LYS:HG2	1:56:A:LYS:HD2	14	0.39
(1,140)	1:70:A:LYS:HG3	1:70:A:LYS:HD2	7	0.39
(1,139)	1:19:A:LEU:HD11	1:19:A:LEU:HG	3	0.39
(1,139)	1:19:A:LEU:HD13	1:19:A:LEU:HG	10	0.39
(1,134)	1:77:A:VAL:HG12	1:163:A:TRP:HZ2	19	0.39
(1,126)	1:95:A:THR:HG22	1:70:A:LYS:HD3	11	0.39
(1,116)	1:89:A:VAL:HG11	1:87:A:LYS:HD3	13	0.39
(1,116)	1:89:A:VAL:HG13	1:87:A:LYS:HD3	19	0.39
(1,116)	1:89:A:VAL:HG11	1:87:A:LYS:HD3	20	0.39
(1,110)	1:119:A:VAL:HG21	1:55:A:MET:HG2	7	0.39
(1,101)	1:164:A:ILE:HD12	1:129:A:GLU:HB3	4	0.39
(1,89)	1:127:A:VAL:H	1:127:A:VAL:HG21	4	0.39
(1,89)	1:127:A:VAL:H	1:127:A:VAL:HG21	16	0.39
(1,87)	1:9:A:GLU:H	1:8:A:VAL:HG11	3	0.39
(1,79)	1:116:A:LYS:H	1:116:A:LYS:HD2	12	0.39
(1,78)	1:107:A:LYS:H	1:103:A:GLU:HG2	6	0.39
(1,61)	1:79:A:LEU:H	1:87:A:LYS:HB2	10	0.39
(1,27)	1:50:A:LYS:H	1:51:A:SER:HB2	12	0.39
(1,20)	1:11:A:GLU:H	1:178:A:GLU:H	11	0.39
(1,14)	1:128:A:ARG:H	1:127:A:VAL:HB	1	0.39
(1,14)	1:128:A:ARG:H	1:127:A:VAL:HB	18	0.39
(1,14)	1:128:A:ARG:H	1:127:A:VAL:HB	19	0.39
(2,26)	1:169:A:ASP:H	1:166:A:ILE:O	5	0.38
(2,26)	1:169:A:ASP:H	1:166:A:ILE:O	8	0.38
(2,24)	1:167:A:ILE:H	1:163:A:TRP:O	7	0.38
(2,9)	1:93:A:LEU:H	1:73:A:ARG:O	18	0.38
(1,3519)	1:44:A:TYR:HD2	1:44:A:TYR:HE2	9	0.38
(1,3519)	1:44:A:TYR:HD2	1:44:A:TYR:HE2	16	0.38
(1,3457)	1:86:A:LEU:HD11	1:153:A:HIS:HE1	18	0.38
(1,3401)	1:126:A:ILE:HG22	1:143:A:GLY:H	5	0.38
(1,3399)	1:125:A:LEU:HD23	1:170:A:THR:HB	12	0.38
(1,3397)	1:45:A:THR:HG23	1:42:A:GLU:HG3	19	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3371)	1:67:A:LYS:HD2	1:67:A:LYS:HB3	6	0.38
(1,3371)	1:67:A:LYS:HD2	1:67:A:LYS:HB3	9	0.38
(1,3369)	1:174:A:LEU:HD22	1:95:A:THR:HG22	15	0.38
(1,3344)	1:149:A:MET:HE3	1:140:A:ILE:HG13	2	0.38
(1,3313)	1:109:A:ILE:HD13	1:104:A:LYS:HA	5	0.38
(1,3308)	1:53:A:MET:HE2	1:119:A:VAL:H	6	0.38
(1,3278)	1:76:A:SER:H	1:77:A:VAL:HG21	18	0.38
(1,3277)	1:111:A:ALA:HB1	1:100:A:PHE:HD2	1	0.38
(1,3277)	1:111:A:ALA:HB2	1:100:A:PHE:HD2	9	0.38
(1,3267)	1:167:A:ILE:HD12	1:171:A:ILE:H	8	0.38
(1,3265)	1:76:A:SER:HB2	1:76:A:SER:H	7	0.38
(1,3264)	1:20:A:VAL:HG22	1:27:A:VAL:HA	6	0.38
(1,3248)	1:2:A:MET:HG3	1:2:A:MET:HB2	3	0.38
(1,3248)	1:2:A:MET:HG3	1:2:A:MET:HB2	4	0.38
(1,3248)	1:2:A:MET:HG3	1:2:A:MET:HB2	20	0.38
(1,3244)	1:94:A:LEU:HD11	1:92:A:VAL:H	15	0.38
(1,3230)	1:86:A:LEU:HD23	1:153:A:HIS:HD2	17	0.38
(1,3229)	1:86:A:LEU:HD23	1:153:A:HIS:HE1	9	0.38
(1,3226)	1:89:A:VAL:HG13	1:102:A:GLN:H	15	0.38
(1,3224)	1:79:A:LEU:H	1:79:A:LEU:HD23	18	0.38
(1,3221)	1:152:A:VAL:HG22	1:150:A:VAL:H	1	0.38
(1,3221)	1:152:A:VAL:HG22	1:150:A:VAL:H	7	0.38
(1,3221)	1:152:A:VAL:HG22	1:150:A:VAL:H	20	0.38
(1,3207)	1:166:A:ILE:HG23	1:167:A:ILE:H	17	0.38
(1,3172)	1:101:A:LEU:HD21	1:110:A:PHE:HE1	20	0.38
(1,3156)	1:142:A:MET:HE3	1:142:A:MET:HA	14	0.38
(1,3127)	1:38:A:VAL:HG13	1:35:A:GLU:HG2	2	0.38
(1,3116)	1:87:A:LYS:HE3	1:113:A:LEU:HD22	3	0.38
(1,3116)	1:87:A:LYS:HE3	1:113:A:LEU:HD21	13	0.38
(1,3103)	1:73:A:ARG:HD2	1:166:A:ILE:HG21	17	0.38
(1,3094)	1:66:A:LEU:HB3	1:61:A:PHE:HE1	10	0.38
(1,3094)	1:66:A:LEU:HB3	1:61:A:PHE:HE1	11	0.38
(1,3091)	1:55:A:MET:HE3	1:55:A:MET:HA	1	0.38
(1,3083)	1:5:A:ASP:HA	1:5:A:ASP:HB3	2	0.38
(1,3083)	1:5:A:ASP:HA	1:5:A:ASP:HB3	6	0.38
(1,3083)	1:5:A:ASP:HA	1:5:A:ASP:HB3	8	0.38
(1,3083)	1:5:A:ASP:HA	1:5:A:ASP:HB3	13	0.38
(1,3083)	1:5:A:ASP:HA	1:5:A:ASP:HB3	15	0.38
(1,3083)	1:5:A:ASP:HA	1:5:A:ASP:HB3	19	0.38
(1,2975)	1:102:A:GLN:HG2	1:109:A:ILE:HD11	17	0.38
(1,2975)	1:102:A:GLN:HG2	1:109:A:ILE:HD13	18	0.38
(1,2959)	1:110:A:PHE:HB2	1:119:A:VAL:HG12	4	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2956)	1:41:A:ASN:HB2	1:44:A:TYR:HD1	4	0.38
(1,2956)	1:41:A:ASN:HB2	1:44:A:TYR:HD1	9	0.38
(1,2942)	1:110:A:PHE:HB2	1:53:A:MET:HE1	10	0.38
(1,2942)	1:110:A:PHE:HB2	1:53:A:MET:HE3	15	0.38
(1,2942)	1:110:A:PHE:HB2	1:53:A:MET:HE1	16	0.38
(1,2924)	1:166:A:ILE:HD12	1:163:A:TRP:HA	8	0.38
(1,2902)	1:46:A:LYS:HB2	1:108:A:TYR:HE2	7	0.38
(1,2851)	1:38:A:VAL:HG12	1:38:A:VAL:HA	5	0.38
(1,2851)	1:38:A:VAL:HG12	1:38:A:VAL:HA	8	0.38
(1,2767)	1:36:A:LYS:HG2	1:36:A:LYS:HA	6	0.38
(1,2767)	1:36:A:LYS:HG2	1:36:A:LYS:HA	12	0.38
(1,2767)	1:36:A:LYS:HG2	1:36:A:LYS:HA	18	0.38
(1,2767)	1:36:A:LYS:HG2	1:36:A:LYS:HA	19	0.38
(1,2715)	1:4:A:LYS:HA	1:8:A:VAL:HG12	14	0.38
(1,2713)	1:66:A:LEU:HD23	1:66:A:LEU:HA	2	0.38
(1,2673)	1:144:A:MET:HB2	1:144:A:MET:HA	12	0.38
(1,2599)	1:69:A:LYS:HA	1:69:A:LYS:HE2	6	0.38
(1,2599)	1:69:A:LYS:HA	1:69:A:LYS:HE2	7	0.38
(1,2599)	1:69:A:LYS:HA	1:69:A:LYS:HE2	9	0.38
(1,2599)	1:69:A:LYS:HA	1:69:A:LYS:HE2	12	0.38
(1,2599)	1:69:A:LYS:HA	1:69:A:LYS:HE2	20	0.38
(1,2589)	1:113:A:LEU:HA	1:118:A:THR:HG21	15	0.38
(1,2541)	1:136:A:GLY:HA2	1:130:A:VAL:HB	9	0.38
(1,2477)	1:80:A:LYS:HE3	1:80:A:LYS:HB2	2	0.38
(1,2473)	1:80:A:LYS:HE2	1:86:A:LEU:HD22	3	0.38
(1,2473)	1:80:A:LYS:HE2	1:86:A:LEU:HD22	8	0.38
(1,2473)	1:80:A:LYS:HE2	1:86:A:LEU:HD22	14	0.38
(1,2442)	1:146:A:ASP:HB3	1:147:A:PRO:HD3	14	0.38
(1,2432)	1:63:A:LYS:HE3	1:49:A:SER:HA	6	0.38
(1,2424)	1:105:A:ASP:HB3	1:104:A:LYS:HG3	12	0.38
(1,2401)	1:34:A:TYR:HB3	1:31:A:VAL:HG13	10	0.38
(1,2401)	1:34:A:TYR:HB3	1:31:A:VAL:HG11	13	0.38
(1,2401)	1:34:A:TYR:HB3	1:31:A:VAL:HG11	17	0.38
(1,2384)	1:35:A:GLU:HG3	1:38:A:VAL:HG23	6	0.38
(1,2384)	1:35:A:GLU:HG3	1:38:A:VAL:HG22	16	0.38
(1,2384)	1:35:A:GLU:HG3	1:38:A:VAL:HG21	19	0.38
(1,2383)	1:35:A:GLU:HG3	1:38:A:VAL:HG11	12	0.38
(1,2361)	1:129:A:GLU:HG3	1:129:A:GLU:HB3	2	0.38
(1,2361)	1:129:A:GLU:HG3	1:129:A:GLU:HB3	10	0.38
(1,2361)	1:129:A:GLU:HG3	1:129:A:GLU:HB3	13	0.38
(1,2361)	1:129:A:GLU:HG3	1:129:A:GLU:HB3	19	0.38
(1,2356)	1:128:A:ARG:HB3	1:130:A:VAL:H	12	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2312)	1:168:A:GLN:HG3	1:164:A:ILE:HG22	20	0.38
(1,2294)	1:168:A:GLN:HG3	1:168:A:GLN:HA	13	0.38
(1,2278)	1:123:A:LYS:HB2	1:174:A:LEU:HD21	15	0.38
(1,2219)	1:166:A:ILE:HG12	1:166:A:ILE:HG21	3	0.38
(1,2219)	1:166:A:ILE:HG12	1:166:A:ILE:HG21	8	0.38
(1,2218)	1:166:A:ILE:HG13	1:166:A:ILE:HG21	7	0.38
(1,2205)	1:165:A:GLN:HB2	1:166:A:ILE:HG12	5	0.38
(1,2205)	1:165:A:GLN:HB2	1:166:A:ILE:HG12	7	0.38
(1,2157)	1:135:A:LYS:HD3	1:135:A:LYS:HB3	20	0.38
(1,2149)	1:168:A:GLN:HB3	1:165:A:GLN:HA	3	0.38
(1,2149)	1:168:A:GLN:HB3	1:165:A:GLN:HA	9	0.38
(1,2141)	1:56:A:LYS:HD3	1:144:A:MET:HE1	15	0.38
(1,2075)	1:98:A:LEU:HD13	1:100:A:PHE:HZ	13	0.38
(1,2049)	1:113:A:LEU:HD11	1:113:A:LEU:HA	6	0.38
(1,2017)	1:167:A:ILE:HG22	1:93:A:LEU:HD13	16	0.38
(1,1977)	1:101:A:LEU:HD13	1:110:A:PHE:HA	4	0.38
(1,1970)	1:101:A:LEU:HD12	1:99:A:VAL:HG21	6	0.38
(1,1946)	1:50:A:LYS:HG2	1:60:A:MET:HE1	5	0.38
(1,1946)	1:50:A:LYS:HG2	1:60:A:MET:HE3	17	0.38
(1,1903)	1:86:A:LEU:HD13	1:78:A:PHE:HA	19	0.38
(1,1886)	1:174:A:LEU:HD23	1:174:A:LEU:HD13	1	0.38
(1,1886)	1:174:A:LEU:HD23	1:174:A:LEU:HD13	7	0.38
(1,1877)	1:66:A:LEU:HD23	1:44:A:TYR:HA	7	0.38
(1,1863)	1:95:A:THR:HG21	1:70:A:LYS:HG2	10	0.38
(1,1855)	1:62:A:ALA:HB2	1:63:A:LYS:HB3	7	0.38
(1,1835)	1:173:A:THR:HG22	1:176:A:ARG:HD3	9	0.38
(1,1835)	1:173:A:THR:HG22	1:176:A:ARG:HD3	14	0.38
(1,1825)	1:45:A:THR:HG23	1:46:A:LYS:HA	1	0.38
(1,1825)	1:45:A:THR:HG21	1:46:A:LYS:HA	13	0.38
(1,1815)	1:173:A:THR:HG23	1:176:A:ARG:HB2	12	0.38
(1,1747)	1:72:A:VAL:HG23	1:95:A:THR:HG22	18	0.38
(1,1742)	1:119:A:VAL:HG13	1:110:A:PHE:HE1	7	0.38
(1,1742)	1:119:A:VAL:HG12	1:110:A:PHE:HE1	11	0.38
(1,1741)	1:119:A:VAL:HG12	1:110:A:PHE:HD1	17	0.38
(1,1731)	1:31:A:VAL:HG11	1:32:A:ALA:HA	13	0.38
(1,1726)	1:20:A:VAL:HG22	1:21:A:LYS:HA	17	0.38
(1,1710)	1:89:A:VAL:HG22	1:79:A:LEU:HG	8	0.38
(1,1692)	1:111:A:ALA:HB3	1:102:A:GLN:HG3	6	0.38
(1,1692)	1:111:A:ALA:HB1	1:102:A:GLN:HG3	10	0.38
(1,1687)	1:111:A:ALA:HB3	1:89:A:VAL:HG23	1	0.38
(1,1687)	1:111:A:ALA:HB1	1:89:A:VAL:HG23	10	0.38
(1,1680)	1:130:A:VAL:HG21	1:136:A:GLY:HA2	16	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1642)	1:52:A:ILE:HG23	1:52:A:ILE:HG13	4	0.38
(1,1642)	1:52:A:ILE:HG22	1:52:A:ILE:HG13	6	0.38
(1,1642)	1:52:A:ILE:HG21	1:52:A:ILE:HG13	7	0.38
(1,1642)	1:52:A:ILE:HG23	1:52:A:ILE:HG13	9	0.38
(1,1642)	1:52:A:ILE:HG21	1:52:A:ILE:HG13	11	0.38
(1,1642)	1:52:A:ILE:HG22	1:52:A:ILE:HG13	13	0.38
(1,1627)	1:43:A:ILE:HG21	1:108:A:TYR:HE2	11	0.38
(1,1610)	1:60:A:MET:HE3	1:60:A:MET:HG3	1	0.38
(1,1610)	1:60:A:MET:HE2	1:60:A:MET:HG3	5	0.38
(1,1610)	1:60:A:MET:HE1	1:60:A:MET:HG3	9	0.38
(1,1610)	1:60:A:MET:HE1	1:60:A:MET:HG3	14	0.38
(1,1602)	1:149:A:MET:HE3	1:138:A:PHE:HD2	6	0.38
(1,1602)	1:149:A:MET:HE3	1:138:A:PHE:HD2	17	0.38
(1,1580)	1:164:A:ILE:HG22	1:127:A:VAL:HB	9	0.38
(1,1570)	1:171:A:ILE:HD13	1:122:A:LEU:HB3	5	0.38
(1,1570)	1:171:A:ILE:HD13	1:122:A:LEU:HB3	12	0.38
(1,1564)	1:97:A:ILE:HD13	1:97:A:ILE:H	3	0.38
(1,1564)	1:97:A:ILE:HD11	1:97:A:ILE:H	5	0.38
(1,1539)	1:140:A:ILE:HD11	1:149:A:MET:HB2	3	0.38
(1,1533)	1:52:A:ILE:HD13	1:52:A:ILE:HA	8	0.38
(1,1518)	1:109:A:ILE:HD13	1:102:A:GLN:HB2	20	0.38
(1,1456)	1:35:A:GLU:H	1:35:A:GLU:HB3	11	0.38
(1,1456)	1:35:A:GLU:H	1:35:A:GLU:HB3	17	0.38
(1,1410)	1:172:A:ASN:HD22	1:168:A:GLN:HG3	14	0.38
(1,1342)	1:100:A:PHE:H	1:98:A:LEU:HD23	14	0.38
(1,1311)	1:63:A:LYS:H	1:63:A:LYS:HD2	10	0.38
(1,1294)	1:155:A:SER:H	1:155:A:SER:HB3	17	0.38
(1,1284)	1:44:A:TYR:H	1:44:A:TYR:HD1	6	0.38
(1,1284)	1:44:A:TYR:H	1:44:A:TYR:HD1	9	0.38
(1,1011)	1:47:A:THR:H	1:46:A:LYS:HD2	8	0.38
(1,1001)	1:119:A:VAL:H	1:119:A:VAL:HG23	1	0.38
(1,1001)	1:119:A:VAL:H	1:119:A:VAL:HG23	2	0.38
(1,1001)	1:119:A:VAL:H	1:119:A:VAL:HG21	5	0.38
(1,1001)	1:119:A:VAL:H	1:119:A:VAL:HG21	16	0.38
(1,938)	1:102:A:GLN:H	1:101:A:LEU:HB2	19	0.38
(1,912)	1:50:A:LYS:H	1:50:A:LYS:HB3	6	0.38
(1,912)	1:50:A:LYS:H	1:50:A:LYS:HB3	14	0.38
(1,852)	1:159:A:GLU:H	1:154:A:ALA:HB3	4	0.38
(1,852)	1:159:A:GLU:H	1:154:A:ALA:HB3	19	0.38
(1,842)	1:110:A:PHE:H	1:109:A:ILE:HD13	3	0.38
(1,842)	1:110:A:PHE:H	1:109:A:ILE:HD13	9	0.38
(1,825)	1:86:A:LEU:H	1:86:A:LEU:HB3	2	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,825)	1:86:A:LEU:H	1:86:A:LEU:HB3	6	0.38
(1,825)	1:86:A:LEU:H	1:86:A:LEU:HB3	7	0.38
(1,825)	1:86:A:LEU:H	1:86:A:LEU:HB3	8	0.38
(1,825)	1:86:A:LEU:H	1:86:A:LEU:HB3	9	0.38
(1,825)	1:86:A:LEU:H	1:86:A:LEU:HB3	17	0.38
(1,823)	1:86:A:LEU:H	1:85:A:ARG:HB2	20	0.38
(1,774)	1:42:A:GLU:H	1:42:A:GLU:HB3	5	0.38
(1,774)	1:42:A:GLU:H	1:42:A:GLU:HB3	8	0.38
(1,774)	1:42:A:GLU:H	1:42:A:GLU:HB3	11	0.38
(1,774)	1:42:A:GLU:H	1:42:A:GLU:HB3	13	0.38
(1,774)	1:42:A:GLU:H	1:42:A:GLU:HB3	16	0.38
(1,774)	1:42:A:GLU:H	1:42:A:GLU:HB3	18	0.38
(1,774)	1:42:A:GLU:H	1:42:A:GLU:HB3	19	0.38
(1,712)	1:74:A:ASP:H	1:71:A:LEU:HD13	6	0.38
(1,712)	1:74:A:ASP:H	1:71:A:LEU:HD11	11	0.38
(1,700)	1:137:A:LEU:H	1:137:A:LEU:HD23	11	0.38
(1,667)	1:24:A:ILE:H	1:27:A:VAL:HG23	17	0.38
(1,652)	1:171:A:ILE:H	1:171:A:ILE:HG22	4	0.38
(1,564)	1:104:A:LYS:H	1:103:A:GLU:HG3	19	0.38
(1,549)	1:61:A:PHE:H	1:52:A:ILE:HG21	5	0.38
(1,549)	1:61:A:PHE:H	1:52:A:ILE:HG23	12	0.38
(1,549)	1:61:A:PHE:H	1:52:A:ILE:HG22	14	0.38
(1,505)	1:37:A:LYS:HE3	1:34:A:TYR:HD2	6	0.38
(1,465)	1:38:A:VAL:HG23	1:37:A:LYS:HE2	14	0.38
(1,457)	1:92:A:VAL:H	1:98:A:LEU:HD22	15	0.38
(1,446)	1:22:A:ASP:HA	1:21:A:LYS:HG3	1	0.38
(1,439)	1:35:A:GLU:HB2	1:31:A:VAL:HG11	17	0.38
(1,405)	1:43:A:ILE:HD12	1:39:A:ARG:HG3	17	0.38
(1,396)	1:21:A:LYS:HA	1:21:A:LYS:HG2	2	0.38
(1,396)	1:21:A:LYS:HA	1:21:A:LYS:HG2	9	0.38
(1,375)	1:49:A:SER:HB2	1:63:A:LYS:HE3	10	0.38
(1,367)	1:121:A:SER:HB2	1:185:A:GLU:HA	18	0.38
(1,365)	1:76:A:SER:HB3	1:78:A:PHE:HD1	15	0.38
(1,363)	1:37:A:LYS:HA	1:37:A:LYS:HE3	17	0.38
(1,349)	1:8:A:VAL:HG21	1:8:A:VAL:HA	1	0.38
(1,345)	1:159:A:GLU:HG2	1:162:A:SER:HB3	17	0.38
(1,315)	1:82:A:ALA:HA	1:116:A:LYS:HG3	11	0.38
(1,315)	1:82:A:ALA:HA	1:116:A:LYS:HG3	12	0.38
(1,290)	1:83:A:ALA:HB2	1:85:A:ARG:HD3	11	0.38
(1,289)	1:85:A:ARG:HG3	1:85:A:ARG:HD2	8	0.38
(1,289)	1:85:A:ARG:HG3	1:85:A:ARG:HD2	9	0.38
(1,272)	1:87:A:LYS:HE3	1:111:A:ALA:HB3	7	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,213)	1:123:A:LYS:HD3	1:181:A:GLY:HA2	6	0.38
(1,171)	1:107:A:LYS:HG3	1:47:A:THR:HA	16	0.38
(1,161)	1:71:A:LEU:HD12	1:93:A:LEU:H	10	0.38
(1,142)	1:56:A:LYS:HG2	1:56:A:LYS:HD2	9	0.38
(1,142)	1:56:A:LYS:HG2	1:56:A:LYS:HD2	16	0.38
(1,139)	1:19:A:LEU:HD11	1:19:A:LEU:HG	16	0.38
(1,139)	1:19:A:LEU:HD12	1:19:A:LEU:HG	20	0.38
(1,126)	1:95:A:THR:HG21	1:70:A:LYS:HD3	14	0.38
(1,116)	1:89:A:VAL:HG12	1:87:A:LYS:HD3	17	0.38
(1,79)	1:116:A:LYS:H	1:116:A:LYS:HD2	18	0.38
(1,78)	1:107:A:LYS:H	1:103:A:GLU:HG2	9	0.38
(1,46)	1:175:A:ASN:H	1:174:A:LEU:HG	2	0.38
(1,32)	1:139:A:LEU:H	1:138:A:PHE:HD1	6	0.38
(1,32)	1:139:A:LEU:H	1:138:A:PHE:HD1	14	0.38
(1,30)	1:139:A:LEU:H	1:139:A:LEU:HD21	14	0.38
(1,20)	1:11:A:GLU:H	1:13:A:LEU:H	19	0.38
(2,26)	1:169:A:ASP:H	1:166:A:ILE:O	19	0.37
(2,16)	1:137:A:LEU:H	1:135:A:LYS:O	9	0.37
(2,13)	1:101:A:LEU:H	1:90:A:GLN:O	4	0.37
(1,3397)	1:45:A:THR:HG22	1:42:A:GLU:HG3	20	0.37
(1,3391)	1:11:A:GLU:HB3	1:12:A:ASP:HB2	1	0.37
(1,3380)	1:40:A:LEU:HG	1:43:A:ILE:HD12	20	0.37
(1,3369)	1:174:A:LEU:HD21	1:95:A:THR:HG23	17	0.37
(1,3344)	1:149:A:MET:HE3	1:140:A:ILE:HG13	9	0.37
(1,3313)	1:109:A:ILE:HD11	1:104:A:LYS:HA	4	0.37
(1,3308)	1:53:A:MET:HE3	1:119:A:VAL:H	7	0.37
(1,3294)	1:65:A:ASP:HA	1:61:A:PHE:HE2	7	0.37
(1,3278)	1:76:A:SER:H	1:77:A:VAL:HG22	4	0.37
(1,3278)	1:76:A:SER:H	1:77:A:VAL:HG21	5	0.37
(1,3278)	1:76:A:SER:H	1:77:A:VAL:HG22	8	0.37
(1,3248)	1:2:A:MET:HG3	1:2:A:MET:HB2	1	0.37
(1,3248)	1:2:A:MET:HG3	1:2:A:MET:HB2	5	0.37
(1,3238)	1:91:A:ALA:HA	1:98:A:LEU:HD22	20	0.37
(1,3231)	1:86:A:LEU:HD23	1:153:A:HIS:HA	2	0.37
(1,3230)	1:86:A:LEU:HD23	1:153:A:HIS:HD2	16	0.37
(1,3229)	1:86:A:LEU:HD22	1:153:A:HIS:HE1	15	0.37
(1,3222)	1:77:A:VAL:HG21	1:78:A:PHE:H	12	0.37
(1,3221)	1:152:A:VAL:HG23	1:150:A:VAL:H	2	0.37
(1,3176)	1:159:A:GLU:HG3	1:155:A:SER:HB2	2	0.37
(1,3172)	1:101:A:LEU:HD21	1:110:A:PHE:HE1	1	0.37
(1,3172)	1:101:A:LEU:HD21	1:110:A:PHE:HE1	16	0.37
(1,3152)	1:97:A:ILE:HD13	1:65:A:ASP:HB3	13	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3116)	1:87:A:LYS:HE3	1:113:A:LEU:HD21	1	0.37
(1,3116)	1:87:A:LYS:HE3	1:113:A:LEU:HD23	12	0.37
(1,3103)	1:73:A:ARG:HD2	1:166:A:ILE:HG22	12	0.37
(1,3094)	1:66:A:LEU:HB3	1:61:A:PHE:HE1	3	0.37
(1,3094)	1:66:A:LEU:HB3	1:61:A:PHE:HE1	13	0.37
(1,3094)	1:66:A:LEU:HB3	1:61:A:PHE:HE1	17	0.37
(1,3092)	1:157:A:LYS:HA	1:157:A:LYS:HE2	12	0.37
(1,3091)	1:55:A:MET:HE1	1:55:A:MET:HA	7	0.37
(1,3091)	1:55:A:MET:HE1	1:55:A:MET:HA	18	0.37
(1,3091)	1:55:A:MET:HE1	1:55:A:MET:HA	20	0.37
(1,3083)	1:5:A:ASP:HA	1:5:A:ASP:HB3	3	0.37
(1,3083)	1:5:A:ASP:HA	1:5:A:ASP:HB3	4	0.37
(1,3019)	1:115:A:GLN:HG2	1:114:A:ASP:HB2	5	0.37
(1,2994)	1:11:A:GLU:HG2	1:11:A:GLU:HA	17	0.37
(1,2975)	1:102:A:GLN:HG2	1:109:A:ILE:HD11	2	0.37
(1,2924)	1:166:A:ILE:HD12	1:163:A:TRP:HA	1	0.37
(1,2924)	1:166:A:ILE:HD11	1:163:A:TRP:HA	15	0.37
(1,2918)	1:141:A:SER:HB2	1:140:A:ILE:HG22	11	0.37
(1,2902)	1:46:A:LYS:HB2	1:108:A:TYR:HE2	14	0.37
(1,2902)	1:46:A:LYS:HB2	1:108:A:TYR:HE2	16	0.37
(1,2851)	1:38:A:VAL:HG12	1:38:A:VAL:HA	12	0.37
(1,2851)	1:38:A:VAL:HG13	1:38:A:VAL:HA	13	0.37
(1,2825)	1:32:A:ALA:HB3	1:29:A:SER:HB2	2	0.37
(1,2823)	1:121:A:SER:HB2	1:97:A:ILE:HG21	20	0.37
(1,2793)	1:120:A:ILE:HD11	1:118:A:THR:HA	2	0.37
(1,2783)	1:117:A:SER:HA	1:55:A:MET:HB3	5	0.37
(1,2774)	1:77:A:VAL:HA	1:89:A:VAL:HG22	5	0.37
(1,2774)	1:77:A:VAL:HA	1:89:A:VAL:HG21	17	0.37
(1,2767)	1:36:A:LYS:HG2	1:36:A:LYS:HA	7	0.37
(1,2767)	1:36:A:LYS:HG2	1:36:A:LYS:HA	10	0.37
(1,2767)	1:36:A:LYS:HG2	1:36:A:LYS:HA	11	0.37
(1,2767)	1:36:A:LYS:HG2	1:36:A:LYS:HA	13	0.37
(1,2757)	1:163:A:TRP:HA	1:163:A:TRP:HZ2	20	0.37
(1,2721)	1:61:A:PHE:HA	1:61:A:PHE:HE2	6	0.37
(1,2720)	1:41:A:ASN:HA	1:44:A:TYR:HE2	7	0.37
(1,2713)	1:66:A:LEU:HD23	1:66:A:LEU:HA	10	0.37
(1,2677)	1:144:A:MET:HG2	1:144:A:MET:HA	19	0.37
(1,2661)	1:101:A:LEU:HD11	1:108:A:TYR:HA	4	0.37
(1,2631)	1:80:A:LYS:HA	1:86:A:LEU:HD11	10	0.37
(1,2599)	1:69:A:LYS:HA	1:69:A:LYS:HE2	10	0.37
(1,2589)	1:113:A:LEU:HA	1:118:A:THR:HG22	8	0.37
(1,2589)	1:113:A:LEU:HA	1:118:A:THR:HG21	10	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2582)	1:53:A:MET:HA	1:53:A:MET:HE2	3	0.37
(1,2582)	1:53:A:MET:HA	1:53:A:MET:HE2	7	0.37
(1,2490)	1:39:A:ARG:HD2	1:38:A:VAL:HG13	8	0.37
(1,2473)	1:80:A:LYS:HE2	1:86:A:LEU:HD21	2	0.37
(1,2473)	1:80:A:LYS:HE2	1:86:A:LEU:HD22	7	0.37
(1,2432)	1:63:A:LYS:HE3	1:49:A:SER:HA	7	0.37
(1,2432)	1:63:A:LYS:HE3	1:49:A:SER:HA	8	0.37
(1,2407)	1:38:A:VAL:HG12	1:41:A:ASN:HB3	3	0.37
(1,2407)	1:38:A:VAL:HG13	1:41:A:ASN:HB3	7	0.37
(1,2407)	1:38:A:VAL:HG12	1:41:A:ASN:HB3	18	0.37
(1,2401)	1:34:A:TYR:HB3	1:31:A:VAL:HG12	6	0.37
(1,2394)	1:159:A:GLU:HG2	1:155:A:SER:HB2	6	0.37
(1,2384)	1:35:A:GLU:HG3	1:38:A:VAL:HG23	1	0.37
(1,2384)	1:35:A:GLU:HG3	1:38:A:VAL:HG23	18	0.37
(1,2383)	1:35:A:GLU:HG3	1:38:A:VAL:HG11	14	0.37
(1,2378)	1:35:A:GLU:HG3	1:35:A:GLU:HA	13	0.37
(1,2359)	1:134:A:GLU:HG3	1:157:A:LYS:HB3	2	0.37
(1,2317)	1:67:A:LYS:HB3	1:44:A:TYR:HE1	7	0.37
(1,2294)	1:168:A:GLN:HG3	1:168:A:GLN:HA	14	0.37
(1,2294)	1:168:A:GLN:HG3	1:168:A:GLN:HA	20	0.37
(1,2222)	1:154:A:ALA:HB3	1:159:A:GLU:HB2	11	0.37
(1,2219)	1:166:A:ILE:HG12	1:166:A:ILE:HG22	1	0.37
(1,2219)	1:166:A:ILE:HG12	1:166:A:ILE:HG22	6	0.37
(1,2218)	1:166:A:ILE:HG13	1:166:A:ILE:HG23	5	0.37
(1,2218)	1:166:A:ILE:HG13	1:166:A:ILE:HG23	16	0.37
(1,2076)	1:71:A:LEU:HG	1:39:A:ARG:HD3	11	0.37
(1,2075)	1:98:A:LEU:HD12	1:100:A:PHE:HZ	6	0.37
(1,2072)	1:98:A:LEU:HD11	1:93:A:LEU:HD22	17	0.37
(1,1957)	1:66:A:LEU:HD11	1:66:A:LEU:HB3	20	0.37
(1,1946)	1:50:A:LYS:HG2	1:60:A:MET:HE2	15	0.37
(1,1921)	1:67:A:LYS:HG2	1:44:A:TYR:HE2	19	0.37
(1,1903)	1:86:A:LEU:HD12	1:78:A:PHE:HA	16	0.37
(1,1903)	1:86:A:LEU:HD12	1:78:A:PHE:HA	20	0.37
(1,1893)	1:94:A:LEU:HD11	1:71:A:LEU:HA	6	0.37
(1,1886)	1:174:A:LEU:HD23	1:174:A:LEU:HD12	2	0.37
(1,1886)	1:174:A:LEU:HD23	1:174:A:LEU:HD13	13	0.37
(1,1865)	1:95:A:THR:HG23	1:170:A:THR:HA	7	0.37
(1,1825)	1:45:A:THR:HG23	1:46:A:LYS:HA	3	0.37
(1,1825)	1:45:A:THR:HG22	1:46:A:LYS:HA	7	0.37
(1,1787)	1:101:A:LEU:HD22	1:66:A:LEU:HD11	8	0.37
(1,1763)	1:99:A:VAL:HG13	1:101:A:LEU:HG	15	0.37
(1,1741)	1:119:A:VAL:HG11	1:110:A:PHE:HD1	16	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1731)	1:31:A:VAL:HG12	1:32:A:ALA:HA	14	0.37
(1,1710)	1:89:A:VAL:HG22	1:79:A:LEU:HG	3	0.37
(1,1710)	1:89:A:VAL:HG22	1:79:A:LEU:HG	16	0.37
(1,1710)	1:89:A:VAL:HG22	1:79:A:LEU:HG	20	0.37
(1,1692)	1:111:A:ALA:HB3	1:102:A:GLN:HG3	1	0.37
(1,1692)	1:111:A:ALA:HB1	1:102:A:GLN:HG3	4	0.37
(1,1692)	1:111:A:ALA:HB1	1:102:A:GLN:HG3	12	0.37
(1,1691)	1:111:A:ALA:HB3	1:102:A:GLN:HG2	6	0.37
(1,1687)	1:111:A:ALA:HB2	1:89:A:VAL:HG23	5	0.37
(1,1687)	1:111:A:ALA:HB1	1:89:A:VAL:HG21	12	0.37
(1,1642)	1:52:A:ILE:HG23	1:52:A:ILE:HG13	20	0.37
(1,1630)	1:24:A:ILE:HG22	1:24:A:ILE:HB	12	0.37
(1,1630)	1:24:A:ILE:HG23	1:24:A:ILE:HB	19	0.37
(1,1627)	1:43:A:ILE:HG22	1:108:A:TYR:HE2	2	0.37
(1,1627)	1:43:A:ILE:HG22	1:108:A:TYR:HE2	7	0.37
(1,1627)	1:43:A:ILE:HG22	1:108:A:TYR:HE2	16	0.37
(1,1620)	1:182:A:ILE:HG23	1:181:A:GLY:HA2	20	0.37
(1,1610)	1:60:A:MET:HE2	1:60:A:MET:HG3	7	0.37
(1,1610)	1:60:A:MET:HE2	1:60:A:MET:HG3	13	0.37
(1,1610)	1:60:A:MET:HE3	1:60:A:MET:HG3	15	0.37
(1,1602)	1:149:A:MET:HE2	1:138:A:PHE:HD2	1	0.37
(1,1602)	1:149:A:MET:HE2	1:138:A:PHE:HD2	15	0.37
(1,1594)	1:55:A:MET:HE3	1:120:A:ILE:HA	9	0.37
(1,1580)	1:164:A:ILE:HG22	1:127:A:VAL:HB	8	0.37
(1,1580)	1:164:A:ILE:HG23	1:127:A:VAL:HB	13	0.37
(1,1580)	1:164:A:ILE:HG23	1:127:A:VAL:HB	14	0.37
(1,1570)	1:171:A:ILE:HD12	1:122:A:LEU:HB3	1	0.37
(1,1564)	1:97:A:ILE:HD12	1:97:A:ILE:H	18	0.37
(1,1560)	1:97:A:ILE:HD12	1:69:A:LYS:HE3	9	0.37
(1,1545)	1:120:A:ILE:HD13	1:150:A:VAL:HG23	12	0.37
(1,1539)	1:140:A:ILE:HD13	1:149:A:MET:HB2	18	0.37
(1,1533)	1:52:A:ILE:HD13	1:52:A:ILE:HA	9	0.37
(1,1533)	1:52:A:ILE:HD12	1:52:A:ILE:HA	12	0.37
(1,1533)	1:52:A:ILE:HD11	1:52:A:ILE:HA	13	0.37
(1,1533)	1:52:A:ILE:HD13	1:52:A:ILE:HA	16	0.37
(1,1533)	1:52:A:ILE:HD11	1:52:A:ILE:HA	18	0.37
(1,1526)	1:166:A:ILE:HD12	1:166:A:ILE:HA	7	0.37
(1,1504)	1:163:A:TRP:HE1	1:75:A:GLY:HA2	1	0.37
(1,1463)	1:85:A:ARG:H	1:85:A:ARG:HG3	7	0.37
(1,1463)	1:85:A:ARG:H	1:85:A:ARG:HG3	20	0.37
(1,1416)	1:79:A:LEU:H	1:89:A:VAL:HG23	2	0.37
(1,1307)	1:63:A:LYS:H	1:47:A:THR:HG23	9	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1289)	1:93:A:LEU:H	1:98:A:LEU:HD21	4	0.37
(1,1208)	1:25:A:GLY:H	1:24:A:ILE:HD13	11	0.37
(1,1167)	1:78:A:PHE:H	1:77:A:VAL:HG13	8	0.37
(1,1167)	1:78:A:PHE:H	1:77:A:VAL:HG13	9	0.37
(1,1167)	1:78:A:PHE:H	1:77:A:VAL:HG13	20	0.37
(1,1088)	1:166:A:ILE:H	1:166:A:ILE:HD12	15	0.37
(1,1060)	1:172:A:ASN:H	1:171:A:ILE:HG22	4	0.37
(1,1060)	1:172:A:ASN:H	1:171:A:ILE:HG21	6	0.37
(1,1060)	1:172:A:ASN:H	1:171:A:ILE:HG22	18	0.37
(1,1011)	1:47:A:THR:H	1:46:A:LYS:HD2	11	0.37
(1,1001)	1:119:A:VAL:H	1:119:A:VAL:HG21	10	0.37
(1,1001)	1:119:A:VAL:H	1:119:A:VAL:HG23	13	0.37
(1,1001)	1:119:A:VAL:H	1:119:A:VAL:HG21	20	0.37
(1,942)	1:178:A:GLU:H	1:177:A:ASP:HB3	14	0.37
(1,938)	1:102:A:GLN:H	1:101:A:LEU:HB2	4	0.37
(1,938)	1:102:A:GLN:H	1:101:A:LEU:HB2	12	0.37
(1,912)	1:50:A:LYS:H	1:50:A:LYS:HB3	11	0.37
(1,912)	1:50:A:LYS:H	1:50:A:LYS:HB3	16	0.37
(1,912)	1:50:A:LYS:H	1:50:A:LYS:HB3	19	0.37
(1,878)	1:43:A:ILE:H	1:43:A:ILE:HD12	7	0.37
(1,842)	1:110:A:PHE:H	1:109:A:ILE:HD12	18	0.37
(1,774)	1:42:A:GLU:H	1:42:A:GLU:HB3	12	0.37
(1,652)	1:171:A:ILE:H	1:171:A:ILE:HG23	7	0.37
(1,652)	1:171:A:ILE:H	1:171:A:ILE:HG22	18	0.37
(1,564)	1:104:A:LYS:H	1:103:A:GLU:HG3	13	0.37
(1,564)	1:104:A:LYS:H	1:103:A:GLU:HG3	16	0.37
(1,549)	1:61:A:PHE:H	1:52:A:ILE:HG22	17	0.37
(1,549)	1:61:A:PHE:H	1:52:A:ILE:HG23	18	0.37
(1,516)	1:153:A:HIS:HD2	1:133:A:GLU:HB3	16	0.37
(1,505)	1:37:A:LYS:HE2	1:34:A:TYR:HD2	17	0.37
(1,499)	1:36:A:LYS:HD3	1:36:A:LYS:HA	5	0.37
(1,499)	1:36:A:LYS:HD3	1:36:A:LYS:HA	14	0.37
(1,485)	1:64:A:GLU:HG3	1:67:A:LYS:HD3	9	0.37
(1,481)	1:149:A:MET:HG3	1:138:A:PHE:HZ	3	0.37
(1,481)	1:149:A:MET:HG3	1:138:A:PHE:HZ	13	0.37
(1,481)	1:149:A:MET:HG3	1:138:A:PHE:HZ	20	0.37
(1,459)	1:15:A:GLN:HB2	1:4:A:LYS:HE3	10	0.37
(1,436)	1:18:A:SER:HB2	1:19:A:LEU:HG	18	0.37
(1,431)	1:67:A:LYS:HE3	1:44:A:TYR:HE2	13	0.37
(1,416)	1:18:A:SER:HA	1:24:A:ILE:HD12	2	0.37
(1,396)	1:21:A:LYS:HA	1:21:A:LYS:HG2	3	0.37
(1,396)	1:21:A:LYS:HA	1:21:A:LYS:HG2	4	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,396)	1:21:A:LYS:HA	1:21:A:LYS:HG2	13	0.37
(1,396)	1:21:A:LYS:HA	1:21:A:LYS:HG2	14	0.37
(1,390)	1:170:A:THR:HA	1:171:A:ILE:HD11	16	0.37
(1,390)	1:170:A:THR:HA	1:171:A:ILE:HD11	20	0.37
(1,365)	1:76:A:SER:HB3	1:78:A:PHE:HD1	3	0.37
(1,351)	1:56:A:LYS:HG2	1:56:A:LYS:HA	12	0.37
(1,348)	1:162:A:SER:HB2	1:161:A:ASN:HB3	13	0.37
(1,346)	1:159:A:GLU:HB3	1:162:A:SER:HB2	4	0.37
(1,327)	1:104:A:LYS:HB3	1:104:A:LYS:HA	6	0.37
(1,315)	1:82:A:ALA:HA	1:116:A:LYS:HG3	18	0.37
(1,310)	1:14:A:ALA:HA	1:21:A:LYS:HD3	7	0.37
(1,302)	1:25:A:GLY:HA2	1:28:A:ASP:HB3	1	0.37
(1,290)	1:83:A:ALA:HB3	1:85:A:ARG:HD3	6	0.37
(1,289)	1:85:A:ARG:HG3	1:85:A:ARG:HD2	12	0.37
(1,279)	1:157:A:LYS:HG2	1:157:A:LYS:HE2	13	0.37
(1,268)	1:5:A:ASP:HB3	1:8:A:VAL:HG22	16	0.37
(1,222)	1:159:A:GLU:HB3	1:162:A:SER:HB3	17	0.37
(1,210)	1:70:A:LYS:HD3	1:8:A:VAL:HG21	5	0.37
(1,210)	1:70:A:LYS:HD3	1:8:A:VAL:HG22	19	0.37
(1,208)	1:93:A:LEU:HD21	1:170:A:THR:HG23	1	0.37
(1,169)	1:30:A:LYS:HG3	1:21:A:LYS:HE2	12	0.37
(1,168)	1:107:A:LYS:HG2	1:106:A:GLN:HG3	4	0.37
(1,154)	1:71:A:LEU:HD12	1:74:A:ASP:HB2	15	0.37
(1,139)	1:19:A:LEU:HD13	1:19:A:LEU:HG	9	0.37
(1,139)	1:19:A:LEU:HD12	1:19:A:LEU:HG	13	0.37
(1,139)	1:19:A:LEU:HD12	1:19:A:LEU:HG	15	0.37
(1,116)	1:89:A:VAL:HG13	1:87:A:LYS:HD3	3	0.37
(1,116)	1:89:A:VAL:HG11	1:87:A:LYS:HD3	4	0.37
(1,110)	1:119:A:VAL:HG23	1:55:A:MET:HG2	14	0.37
(1,85)	1:142:A:MET:H	1:141:A:SER:HB2	14	0.37
(1,58)	1:13:A:LEU:H	1:19:A:LEU:HD12	9	0.37
(1,42)	1:76:A:SER:H	1:77:A:VAL:HG12	20	0.37
(1,39)	1:170:A:THR:H	1:93:A:LEU:HD22	9	0.37
(1,38)	1:138:A:PHE:H	1:164:A:ILE:HD13	5	0.37
(1,38)	1:138:A:PHE:H	1:164:A:ILE:HD12	10	0.37
(1,37)	1:169:A:ASP:H	1:167:A:ILE:HD12	20	0.37
(1,32)	1:139:A:LEU:H	1:138:A:PHE:HD1	12	0.37
(1,30)	1:139:A:LEU:H	1:139:A:LEU:HD21	5	0.37
(1,8)	1:71:A:LEU:H	1:70:A:LYS:HB3	15	0.37
(2,26)	1:169:A:ASP:H	1:166:A:ILE:O	6	0.36
(2,26)	1:169:A:ASP:H	1:166:A:ILE:O	15	0.36
(2,13)	1:101:A:LEU:H	1:90:A:GLN:O	19	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3451)	1:66:A:LEU:HB3	1:44:A:TYR:HD2	9	0.36
(1,3401)	1:126:A:ILE:HG22	1:143:A:GLY:H	11	0.36
(1,3400)	1:126:A:ILE:HG23	1:142:A:MET:HG2	9	0.36
(1,3399)	1:125:A:LEU:HD21	1:170:A:THR:HB	15	0.36
(1,3394)	1:134:A:GLU:HG2	1:157:A:LYS:HG3	4	0.36
(1,3370)	1:174:A:LEU:HD21	1:171:A:ILE:HA	15	0.36
(1,3313)	1:109:A:ILE:HD12	1:104:A:LYS:HA	12	0.36
(1,3308)	1:53:A:MET:HE2	1:119:A:VAL:H	12	0.36
(1,3301)	1:154:A:ALA:HB2	1:163:A:TRP:HD1	20	0.36
(1,3283)	1:88:A:GLU:HG2	1:78:A:PHE:H	8	0.36
(1,3278)	1:76:A:SER:H	1:77:A:VAL:HG21	3	0.36
(1,3278)	1:76:A:SER:H	1:77:A:VAL:HG22	10	0.36
(1,3278)	1:76:A:SER:H	1:77:A:VAL:HG23	16	0.36
(1,3277)	1:111:A:ALA:HB1	1:100:A:PHE:HD2	3	0.36
(1,3264)	1:20:A:VAL:HG22	1:27:A:VAL:HA	3	0.36
(1,3248)	1:2:A:MET:HG3	1:2:A:MET:HB2	11	0.36
(1,3248)	1:2:A:MET:HG3	1:2:A:MET:HB2	16	0.36
(1,3244)	1:94:A:LEU:HD12	1:92:A:VAL:H	7	0.36
(1,3231)	1:86:A:LEU:HD23	1:153:A:HIS:HA	17	0.36
(1,3230)	1:86:A:LEU:HD23	1:153:A:HIS:HD2	2	0.36
(1,3230)	1:86:A:LEU:HD22	1:153:A:HIS:HD2	20	0.36
(1,3221)	1:152:A:VAL:HG21	1:150:A:VAL:H	9	0.36
(1,3221)	1:152:A:VAL:HG22	1:150:A:VAL:H	15	0.36
(1,3172)	1:101:A:LEU:HD21	1:110:A:PHE:HE1	11	0.36
(1,3172)	1:101:A:LEU:HD22	1:110:A:PHE:HE1	13	0.36
(1,3157)	1:22:A:ASP:HB2	1:22:A:ASP:HA	7	0.36
(1,3157)	1:22:A:ASP:HB2	1:22:A:ASP:HA	9	0.36
(1,3157)	1:22:A:ASP:HB2	1:22:A:ASP:HA	11	0.36
(1,3116)	1:87:A:LYS:HE3	1:113:A:LEU:HD21	10	0.36
(1,3094)	1:66:A:LEU:HB3	1:61:A:PHE:HE1	16	0.36
(1,3091)	1:55:A:MET:HE1	1:55:A:MET:HA	6	0.36
(1,3091)	1:55:A:MET:HE1	1:55:A:MET:HA	11	0.36
(1,3091)	1:55:A:MET:HE3	1:55:A:MET:HA	16	0.36
(1,3091)	1:55:A:MET:HE1	1:55:A:MET:HA	19	0.36
(1,3083)	1:5:A:ASP:HA	1:5:A:ASP:HB3	1	0.36
(1,3083)	1:5:A:ASP:HA	1:5:A:ASP:HB3	11	0.36
(1,3053)	1:55:A:MET:HE1	1:119:A:VAL:H	18	0.36
(1,2988)	1:43:A:ILE:HD11	1:40:A:LEU:HA	16	0.36
(1,2983)	1:36:A:LYS:HD3	1:36:A:LYS:HA	6	0.36
(1,2983)	1:36:A:LYS:HD3	1:36:A:LYS:HA	13	0.36
(1,2975)	1:102:A:GLN:HG2	1:109:A:ILE:HD13	7	0.36
(1,2975)	1:102:A:GLN:HG2	1:109:A:ILE:HD13	11	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2975)	1:102:A:GLN:HG2	1:109:A:ILE:HD11	12	0.36
(1,2942)	1:110:A:PHE:HB2	1:53:A:MET:HE1	19	0.36
(1,2924)	1:166:A:ILE:HD13	1:163:A:TRP:HA	10	0.36
(1,2902)	1:46:A:LYS:HB2	1:108:A:TYR:HE2	6	0.36
(1,2902)	1:46:A:LYS:HB2	1:108:A:TYR:HE2	11	0.36
(1,2902)	1:46:A:LYS:HB2	1:108:A:TYR:HE2	17	0.36
(1,2851)	1:38:A:VAL:HG13	1:38:A:VAL:HA	1	0.36
(1,2851)	1:38:A:VAL:HG11	1:38:A:VAL:HA	2	0.36
(1,2851)	1:38:A:VAL:HG11	1:38:A:VAL:HA	15	0.36
(1,2832)	1:119:A:VAL:HA	1:120:A:ILE:HD13	13	0.36
(1,2794)	1:34:A:TYR:HA	1:38:A:VAL:HG22	3	0.36
(1,2793)	1:120:A:ILE:HD12	1:118:A:THR:HA	3	0.36
(1,2783)	1:117:A:SER:HA	1:55:A:MET:HB3	20	0.36
(1,2774)	1:77:A:VAL:HA	1:89:A:VAL:HG21	8	0.36
(1,2760)	1:20:A:VAL:HA	1:20:A:VAL:HB	4	0.36
(1,2721)	1:61:A:PHE:HA	1:61:A:PHE:HE2	4	0.36
(1,2721)	1:61:A:PHE:HA	1:61:A:PHE:HE2	19	0.36
(1,2720)	1:41:A:ASN:HA	1:44:A:TYR:HE1	19	0.36
(1,2669)	1:10:A:GLN:HA	1:10:A:GLN:HB2	17	0.36
(1,2657)	1:108:A:TYR:HA	1:109:A:ILE:HD11	16	0.36
(1,2599)	1:69:A:LYS:HA	1:69:A:LYS:HE2	18	0.36
(1,2589)	1:113:A:LEU:HA	1:118:A:THR:HG22	14	0.36
(1,2582)	1:53:A:MET:HA	1:53:A:MET:HE1	8	0.36
(1,2567)	1:146:A:ASP:HA	1:147:A:PRO:HG2	10	0.36
(1,2564)	1:26:A:ALA:HB2	1:26:A:ALA:HA	7	0.36
(1,2477)	1:80:A:LYS:HE3	1:80:A:LYS:HB2	11	0.36
(1,2473)	1:80:A:LYS:HE2	1:86:A:LEU:HD21	9	0.36
(1,2473)	1:80:A:LYS:HE2	1:86:A:LEU:HD23	15	0.36
(1,2469)	1:22:A:ASP:HB2	1:24:A:ILE:HG12	8	0.36
(1,2452)	1:46:A:LYS:HD3	1:46:A:LYS:HE3	1	0.36
(1,2452)	1:46:A:LYS:HD3	1:46:A:LYS:HE3	3	0.36
(1,2452)	1:46:A:LYS:HD3	1:46:A:LYS:HE3	5	0.36
(1,2452)	1:46:A:LYS:HD3	1:46:A:LYS:HE3	9	0.36
(1,2452)	1:46:A:LYS:HD3	1:46:A:LYS:HE3	12	0.36
(1,2442)	1:146:A:ASP:HB3	1:147:A:PRO:HD3	6	0.36
(1,2432)	1:63:A:LYS:HE3	1:49:A:SER:HA	11	0.36
(1,2407)	1:38:A:VAL:HG12	1:41:A:ASN:HB3	20	0.36
(1,2401)	1:34:A:TYR:HB3	1:31:A:VAL:HG11	1	0.36
(1,2401)	1:34:A:TYR:HB3	1:31:A:VAL:HG13	4	0.36
(1,2401)	1:34:A:TYR:HB3	1:31:A:VAL:HG11	5	0.36
(1,2401)	1:34:A:TYR:HB3	1:31:A:VAL:HG11	11	0.36
(1,2401)	1:34:A:TYR:HB3	1:31:A:VAL:HG11	15	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2401)	1:34:A:TYR:HB3	1:31:A:VAL:HG11	16	0.36
(1,2384)	1:35:A:GLU:HG3	1:38:A:VAL:HG23	9	0.36
(1,2383)	1:35:A:GLU:HG3	1:38:A:VAL:HG11	6	0.36
(1,2383)	1:35:A:GLU:HG3	1:38:A:VAL:HG13	9	0.36
(1,2383)	1:35:A:GLU:HG3	1:38:A:VAL:HG11	17	0.36
(1,2378)	1:35:A:GLU:HG3	1:35:A:GLU:HA	2	0.36
(1,2369)	1:134:A:GLU:HG3	1:135:A:LYS:HG2	17	0.36
(1,2353)	1:133:A:GLU:HG3	1:130:A:VAL:HG13	9	0.36
(1,2313)	1:168:A:GLN:HG2	1:164:A:ILE:HG23	9	0.36
(1,2311)	1:59:A:GLN:HG2	1:59:A:GLN:HB2	6	0.36
(1,2299)	1:102:A:GLN:HB3	1:89:A:VAL:HG12	1	0.36
(1,2292)	1:4:A:LYS:HB2	1:9:A:GLU:HA	6	0.36
(1,2278)	1:123:A:LYS:HB2	1:174:A:LEU:HD23	7	0.36
(1,2274)	1:31:A:VAL:HG21	1:31:A:VAL:HB	11	0.36
(1,2274)	1:31:A:VAL:HG22	1:31:A:VAL:HB	17	0.36
(1,2253)	1:176:A:ARG:HB3	1:173:A:THR:HG21	8	0.36
(1,2253)	1:176:A:ARG:HB3	1:173:A:THR:HG22	14	0.36
(1,2249)	1:53:A:MET:HG2	1:119:A:VAL:HG23	18	0.36
(1,2219)	1:166:A:ILE:HG12	1:166:A:ILE:HG22	13	0.36
(1,2218)	1:166:A:ILE:HG13	1:166:A:ILE:HG23	19	0.36
(1,2205)	1:165:A:GLN:HB2	1:166:A:ILE:HG12	16	0.36
(1,2197)	1:68:A:ARG:HB3	1:68:A:ARG:HD3	6	0.36
(1,2197)	1:68:A:ARG:HB3	1:68:A:ARG:HD3	16	0.36
(1,2179)	1:80:A:LYS:HD3	1:80:A:LYS:HB2	16	0.36
(1,2153)	1:64:A:GLU:HB2	1:44:A:TYR:HE2	2	0.36
(1,2153)	1:64:A:GLU:HB2	1:44:A:TYR:HE2	6	0.36
(1,2153)	1:64:A:GLU:HB2	1:44:A:TYR:HE2	11	0.36
(1,2076)	1:71:A:LEU:HG	1:39:A:ARG:HD3	18	0.36
(1,2049)	1:113:A:LEU:HD11	1:113:A:LEU:HA	4	0.36
(1,2049)	1:113:A:LEU:HD12	1:113:A:LEU:HA	7	0.36
(1,2049)	1:113:A:LEU:HD13	1:113:A:LEU:HA	17	0.36
(1,2017)	1:167:A:ILE:HG23	1:93:A:LEU:HD12	10	0.36
(1,1994)	1:174:A:LEU:HD12	1:171:A:ILE:HB	13	0.36
(1,1994)	1:174:A:LEU:HD11	1:171:A:ILE:HB	16	0.36
(1,1957)	1:66:A:LEU:HD11	1:66:A:LEU:HB3	11	0.36
(1,1946)	1:50:A:LYS:HG2	1:60:A:MET:HE3	19	0.36
(1,1932)	1:94:A:LEU:HD21	1:94:A:LEU:HA	5	0.36
(1,1932)	1:94:A:LEU:HD23	1:94:A:LEU:HA	9	0.36
(1,1932)	1:94:A:LEU:HD21	1:94:A:LEU:HA	16	0.36
(1,1923)	1:67:A:LYS:HG2	1:44:A:TYR:HD2	9	0.36
(1,1906)	1:86:A:LEU:HD13	1:78:A:PHE:HE2	1	0.36
(1,1906)	1:86:A:LEU:HD11	1:78:A:PHE:HE2	6	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1903)	1:86:A:LEU:HD12	1:78:A:PHE:HA	5	0.36
(1,1903)	1:86:A:LEU:HD11	1:78:A:PHE:HA	7	0.36
(1,1877)	1:66:A:LEU:HD23	1:44:A:TYR:HA	13	0.36
(1,1865)	1:95:A:THR:HG23	1:170:A:THR:HA	20	0.36
(1,1855)	1:62:A:ALA:HB2	1:63:A:LYS:HB3	11	0.36
(1,1855)	1:62:A:ALA:HB3	1:63:A:LYS:HB3	13	0.36
(1,1855)	1:62:A:ALA:HB1	1:63:A:LYS:HB3	16	0.36
(1,1845)	1:72:A:VAL:HG21	1:170:A:THR:HG21	20	0.36
(1,1799)	1:127:A:VAL:HG13	1:137:A:LEU:HD23	12	0.36
(1,1797)	1:113:A:LEU:HD22	1:81:A:ASN:HB3	4	0.36
(1,1787)	1:101:A:LEU:HD23	1:66:A:LEU:HD13	10	0.36
(1,1755)	1:99:A:VAL:HG22	1:99:A:VAL:HG13	19	0.36
(1,1731)	1:31:A:VAL:HG11	1:32:A:ALA:HA	11	0.36
(1,1710)	1:89:A:VAL:HG23	1:79:A:LEU:HG	10	0.36
(1,1684)	1:32:A:ALA:HB3	1:32:A:ALA:HA	6	0.36
(1,1642)	1:52:A:ILE:HG21	1:52:A:ILE:HG13	18	0.36
(1,1630)	1:24:A:ILE:HG23	1:24:A:ILE:HB	6	0.36
(1,1630)	1:24:A:ILE:HG23	1:24:A:ILE:HB	10	0.36
(1,1630)	1:24:A:ILE:HG23	1:24:A:ILE:HB	18	0.36
(1,1627)	1:43:A:ILE:HG23	1:108:A:TYR:HE2	3	0.36
(1,1627)	1:43:A:ILE:HG21	1:108:A:TYR:HE2	12	0.36
(1,1627)	1:43:A:ILE:HG22	1:108:A:TYR:HE2	17	0.36
(1,1627)	1:43:A:ILE:HG22	1:108:A:TYR:HE2	20	0.36
(1,1614)	1:171:A:ILE:HG22	1:174:A:LEU:HD12	10	0.36
(1,1610)	1:60:A:MET:HE2	1:60:A:MET:HG3	16	0.36
(1,1610)	1:60:A:MET:HE1	1:60:A:MET:HG3	19	0.36
(1,1603)	1:149:A:MET:HE2	1:149:A:MET:HA	4	0.36
(1,1602)	1:149:A:MET:HE1	1:138:A:PHE:HD2	12	0.36
(1,1580)	1:164:A:ILE:HG23	1:127:A:VAL:HB	3	0.36
(1,1570)	1:171:A:ILE:HD13	1:122:A:LEU:HB3	19	0.36
(1,1570)	1:171:A:ILE:HD12	1:122:A:LEU:HB3	20	0.36
(1,1560)	1:97:A:ILE:HD12	1:69:A:LYS:HE3	1	0.36
(1,1533)	1:52:A:ILE:HD11	1:52:A:ILE:HA	1	0.36
(1,1533)	1:52:A:ILE:HD12	1:52:A:ILE:HA	2	0.36
(1,1533)	1:52:A:ILE:HD13	1:52:A:ILE:HA	5	0.36
(1,1533)	1:52:A:ILE:HD11	1:52:A:ILE:HA	14	0.36
(1,1533)	1:52:A:ILE:HD13	1:52:A:ILE:HA	15	0.36
(1,1533)	1:52:A:ILE:HD12	1:52:A:ILE:HA	17	0.36
(1,1526)	1:166:A:ILE:HD12	1:166:A:ILE:HA	5	0.36
(1,1526)	1:166:A:ILE:HD12	1:166:A:ILE:HA	19	0.36
(1,1518)	1:109:A:ILE:HD13	1:102:A:GLN:HB2	16	0.36
(1,1476)	1:142:A:MET:H	1:142:A:MET:HG3	1	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1463)	1:85:A:ARG:H	1:85:A:ARG:HG3	14	0.36
(1,1457)	1:107:A:LYS:H	1:104:A:LYS:HB2	11	0.36
(1,1416)	1:79:A:LEU:H	1:89:A:VAL:HG23	9	0.36
(1,1355)	1:15:A:GLN:H	1:14:A:ALA:HB3	7	0.36
(1,1294)	1:155:A:SER:H	1:155:A:SER:HB3	4	0.36
(1,1251)	1:84:A:GLY:H	1:83:A:ALA:HB2	16	0.36
(1,1167)	1:78:A:PHE:H	1:77:A:VAL:HG13	10	0.36
(1,1167)	1:78:A:PHE:H	1:77:A:VAL:HG11	11	0.36
(1,1167)	1:78:A:PHE:H	1:77:A:VAL:HG13	14	0.36
(1,1039)	1:170:A:THR:H	1:171:A:ILE:HD11	3	0.36
(1,1011)	1:47:A:THR:H	1:46:A:LYS:HD2	4	0.36
(1,1011)	1:47:A:THR:H	1:46:A:LYS:HD2	19	0.36
(1,992)	1:27:A:VAL:H	1:26:A:ALA:HB3	8	0.36
(1,942)	1:178:A:GLU:H	1:177:A:ASP:HB3	2	0.36
(1,938)	1:102:A:GLN:H	1:101:A:LEU:HB2	2	0.36
(1,938)	1:102:A:GLN:H	1:101:A:LEU:HB2	3	0.36
(1,938)	1:102:A:GLN:H	1:101:A:LEU:HB2	6	0.36
(1,938)	1:102:A:GLN:H	1:101:A:LEU:HB2	8	0.36
(1,938)	1:102:A:GLN:H	1:101:A:LEU:HB2	16	0.36
(1,912)	1:50:A:LYS:H	1:50:A:LYS:HB3	3	0.36
(1,878)	1:43:A:ILE:H	1:43:A:ILE:HD11	5	0.36
(1,878)	1:43:A:ILE:H	1:43:A:ILE:HD11	15	0.36
(1,842)	1:110:A:PHE:H	1:109:A:ILE:HD11	1	0.36
(1,828)	1:86:A:LEU:H	1:86:A:LEU:HD11	12	0.36
(1,827)	1:86:A:LEU:H	1:86:A:LEU:HD23	8	0.36
(1,827)	1:86:A:LEU:H	1:86:A:LEU:HD23	12	0.36
(1,825)	1:86:A:LEU:H	1:86:A:LEU:HB3	10	0.36
(1,823)	1:86:A:LEU:H	1:85:A:ARG:HB2	11	0.36
(1,823)	1:86:A:LEU:H	1:85:A:ARG:HB2	18	0.36
(1,774)	1:42:A:GLU:H	1:42:A:GLU:HB3	7	0.36
(1,766)	1:80:A:LYS:H	1:79:A:LEU:HD21	12	0.36
(1,700)	1:137:A:LEU:H	1:137:A:LEU:HD21	12	0.36
(1,676)	1:111:A:ALA:H	1:101:A:LEU:HD23	5	0.36
(1,505)	1:37:A:LYS:HE2	1:34:A:TYR:HD1	2	0.36
(1,505)	1:37:A:LYS:HE2	1:34:A:TYR:HD2	5	0.36
(1,499)	1:36:A:LYS:HD3	1:36:A:LYS:HA	8	0.36
(1,481)	1:149:A:MET:HG3	1:138:A:PHE:HZ	11	0.36
(1,481)	1:149:A:MET:HG3	1:138:A:PHE:HZ	18	0.36
(1,449)	1:31:A:VAL:HG12	1:30:A:LYS:HD3	12	0.36
(1,449)	1:31:A:VAL:HG13	1:30:A:LYS:HD3	14	0.36
(1,439)	1:10:A:GLN:HB3	1:174:A:LEU:HD12	4	0.36
(1,402)	1:176:A:ARG:HB2	1:176:A:ARG:HA	11	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,396)	1:21:A:LYS:HA	1:21:A:LYS:HG2	16	0.36
(1,396)	1:21:A:LYS:HA	1:21:A:LYS:HG2	18	0.36
(1,396)	1:21:A:LYS:HA	1:21:A:LYS:HG2	20	0.36
(1,390)	1:170:A:THR:HA	1:171:A:ILE:HD11	1	0.36
(1,390)	1:170:A:THR:HA	1:171:A:ILE:HD13	4	0.36
(1,390)	1:170:A:THR:HA	1:171:A:ILE:HD13	11	0.36
(1,367)	1:121:A:SER:HB2	1:185:A:GLU:HA	10	0.36
(1,349)	1:8:A:VAL:HA	1:8:A:VAL:HG11	2	0.36
(1,349)	1:8:A:VAL:HG23	1:8:A:VAL:HA	16	0.36
(1,345)	1:159:A:GLU:HG2	1:162:A:SER:HB2	1	0.36
(1,345)	1:159:A:GLU:HG2	1:162:A:SER:HB3	2	0.36
(1,327)	1:104:A:LYS:HB3	1:104:A:LYS:HA	1	0.36
(1,327)	1:104:A:LYS:HB3	1:104:A:LYS:HA	8	0.36
(1,327)	1:104:A:LYS:HB3	1:104:A:LYS:HA	18	0.36
(1,315)	1:82:A:ALA:HA	1:116:A:LYS:HG3	1	0.36
(1,315)	1:82:A:ALA:HA	1:116:A:LYS:HG3	2	0.36
(1,295)	1:50:A:LYS:HE2	1:50:A:LYS:HA	10	0.36
(1,295)	1:50:A:LYS:HE3	1:50:A:LYS:HA	15	0.36
(1,290)	1:83:A:ALA:HB2	1:85:A:ARG:HD3	7	0.36
(1,289)	1:85:A:ARG:HG3	1:85:A:ARG:HD2	19	0.36
(1,279)	1:157:A:LYS:HG2	1:157:A:LYS:HE2	4	0.36
(1,256)	1:64:A:GLU:HG3	1:67:A:LYS:HD3	10	0.36
(1,253)	1:115:A:GLN:HG2	1:113:A:LEU:HB2	4	0.36
(1,253)	1:115:A:GLN:HG2	1:113:A:LEU:HB2	16	0.36
(1,243)	1:4:A:LYS:HB2	1:4:A:LYS:HE3	2	0.36
(1,217)	1:37:A:LYS:HD3	1:37:A:LYS:HA	5	0.36
(1,217)	1:37:A:LYS:HD3	1:37:A:LYS:HA	9	0.36
(1,217)	1:37:A:LYS:HD3	1:37:A:LYS:HA	14	0.36
(1,217)	1:37:A:LYS:HD3	1:37:A:LYS:HA	19	0.36
(1,199)	1:56:A:LYS:HD3	1:56:A:LYS:HB3	8	0.36
(1,171)	1:107:A:LYS:HG3	1:47:A:THR:HA	1	0.36
(1,171)	1:107:A:LYS:HG3	1:47:A:THR:HA	9	0.36
(1,171)	1:107:A:LYS:HG3	1:47:A:THR:HA	10	0.36
(1,171)	1:107:A:LYS:HG3	1:47:A:THR:HA	12	0.36
(1,169)	1:30:A:LYS:HG3	1:21:A:LYS:HE2	5	0.36
(1,140)	1:70:A:LYS:HG3	1:70:A:LYS:HD3	19	0.36
(1,139)	1:19:A:LEU:HD13	1:19:A:LEU:HG	4	0.36
(1,139)	1:19:A:LEU:HD12	1:19:A:LEU:HG	18	0.36
(1,126)	1:95:A:THR:HG23	1:70:A:LYS:HD3	2	0.36
(1,126)	1:95:A:THR:HG22	1:70:A:LYS:HD3	8	0.36
(1,126)	1:95:A:THR:HG22	1:70:A:LYS:HD3	16	0.36
(1,116)	1:89:A:VAL:HG12	1:87:A:LYS:HD3	15	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,110)	1:119:A:VAL:HG23	1:55:A:MET:HG2	2	0.36
(1,89)	1:127:A:VAL:H	1:127:A:VAL:HG21	13	0.36
(1,85)	1:142:A:MET:H	1:141:A:SER:HB2	3	0.36
(1,85)	1:142:A:MET:H	1:141:A:SER:HB2	11	0.36
(1,85)	1:142:A:MET:H	1:141:A:SER:HB2	18	0.36
(1,78)	1:107:A:LYS:H	1:103:A:GLU:HG2	13	0.36
(1,61)	1:79:A:LEU:H	1:87:A:LYS:HB2	1	0.36
(1,32)	1:139:A:LEU:H	1:138:A:PHE:HD1	8	0.36
(1,32)	1:139:A:LEU:H	1:138:A:PHE:HD1	18	0.36
(1,27)	1:50:A:LYS:H	1:51:A:SER:HB2	2	0.36
(1,8)	1:71:A:LEU:H	1:70:A:LYS:HB3	10	0.36
(2,26)	1:169:A:ASP:H	1:166:A:ILE:O	18	0.35
(2,13)	1:101:A:LEU:H	1:90:A:GLN:O	5	0.35
(2,11)	1:97:A:ILE:H	1:94:A:LEU:O	3	0.35
(2,11)	1:97:A:ILE:H	1:94:A:LEU:O	20	0.35
(2,4)	1:79:A:LEU:H	1:87:A:LYS:O	10	0.35
(1,3521)	1:133:A:GLU:HG2	1:132:A:HIS:HD2	17	0.35
(1,3512)	1:101:A:LEU:HD12	1:108:A:TYR:HE2	19	0.35
(1,3400)	1:126:A:ILE:HG23	1:142:A:MET:HG2	3	0.35
(1,3400)	1:126:A:ILE:HG23	1:142:A:MET:HG2	7	0.35
(1,3391)	1:11:A:GLU:HB3	1:12:A:ASP:HB2	17	0.35
(1,3383)	1:42:A:GLU:HG3	1:38:A:VAL:HG23	15	0.35
(1,3369)	1:174:A:LEU:HD21	1:95:A:THR:HG21	1	0.35
(1,3369)	1:174:A:LEU:HD22	1:95:A:THR:HG23	14	0.35
(1,3321)	1:60:A:MET:HE2	1:60:A:MET:HA	2	0.35
(1,3321)	1:60:A:MET:HE3	1:60:A:MET:HA	11	0.35
(1,3283)	1:88:A:GLU:HG2	1:78:A:PHE:H	2	0.35
(1,3283)	1:88:A:GLU:HG2	1:78:A:PHE:H	7	0.35
(1,3283)	1:88:A:GLU:HG2	1:78:A:PHE:H	14	0.35
(1,3283)	1:88:A:GLU:HG2	1:78:A:PHE:H	18	0.35
(1,3278)	1:76:A:SER:H	1:77:A:VAL:HG21	6	0.35
(1,3278)	1:76:A:SER:H	1:77:A:VAL:HG21	7	0.35
(1,3278)	1:76:A:SER:H	1:77:A:VAL:HG21	11	0.35
(1,3278)	1:76:A:SER:H	1:77:A:VAL:HG22	15	0.35
(1,3276)	1:111:A:ALA:HB2	1:109:A:ILE:H	1	0.35
(1,3276)	1:111:A:ALA:HB2	1:109:A:ILE:H	7	0.35
(1,3276)	1:111:A:ALA:HB3	1:109:A:ILE:H	11	0.35
(1,3231)	1:86:A:LEU:HD21	1:153:A:HIS:HA	12	0.35
(1,3231)	1:86:A:LEU:HD22	1:153:A:HIS:HA	19	0.35
(1,3230)	1:86:A:LEU:HD23	1:153:A:HIS:HD2	4	0.35
(1,3221)	1:152:A:VAL:HG21	1:150:A:VAL:H	5	0.35
(1,3176)	1:159:A:GLU:HG3	1:155:A:SER:HB2	14	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3172)	1:101:A:LEU:HD22	1:110:A:PHE:HE1	2	0.35
(1,3172)	1:101:A:LEU:HD22	1:110:A:PHE:HE1	9	0.35
(1,3172)	1:101:A:LEU:HD23	1:110:A:PHE:HE1	10	0.35
(1,3100)	1:128:A:ARG:HB3	1:128:A:ARG:HD2	5	0.35
(1,3094)	1:66:A:LEU:HB3	1:61:A:PHE:HE1	12	0.35
(1,3091)	1:55:A:MET:HE2	1:55:A:MET:HA	5	0.35
(1,3083)	1:5:A:ASP:HA	1:5:A:ASP:HB3	9	0.35
(1,3083)	1:5:A:ASP:HA	1:5:A:ASP:HB3	10	0.35
(1,3053)	1:55:A:MET:HE2	1:119:A:VAL:H	5	0.35
(1,3053)	1:55:A:MET:HE3	1:119:A:VAL:H	14	0.35
(1,3051)	1:55:A:MET:HE3	1:59:A:GLN:HE22	6	0.35
(1,2988)	1:43:A:ILE:HD12	1:40:A:LEU:HA	8	0.35
(1,2988)	1:43:A:ILE:HD12	1:40:A:LEU:HA	11	0.35
(1,2983)	1:36:A:LYS:HD3	1:36:A:LYS:HA	9	0.35
(1,2983)	1:36:A:LYS:HD3	1:36:A:LYS:HA	17	0.35
(1,2975)	1:102:A:GLN:HG2	1:109:A:ILE:HD13	4	0.35
(1,2975)	1:102:A:GLN:HG2	1:109:A:ILE:HD12	10	0.35
(1,2902)	1:46:A:LYS:HB2	1:108:A:TYR:HE2	2	0.35
(1,2902)	1:46:A:LYS:HB2	1:108:A:TYR:HE2	10	0.35
(1,2843)	1:31:A:VAL:HA	1:34:A:TYR:HE2	1	0.35
(1,2819)	1:121:A:SER:HA	1:121:A:SER:HB2	10	0.35
(1,2794)	1:34:A:TYR:HA	1:38:A:VAL:HG22	13	0.35
(1,2774)	1:77:A:VAL:HA	1:89:A:VAL:HG22	7	0.35
(1,2756)	1:63:A:LYS:HA	1:44:A:TYR:HE2	3	0.35
(1,2721)	1:61:A:PHE:HA	1:61:A:PHE:HE2	10	0.35
(1,2721)	1:61:A:PHE:HA	1:61:A:PHE:HE2	15	0.35
(1,2721)	1:61:A:PHE:HA	1:61:A:PHE:HE2	16	0.35
(1,2677)	1:144:A:MET:HG2	1:144:A:MET:HA	5	0.35
(1,2631)	1:80:A:LYS:HA	1:86:A:LEU:HD11	5	0.35
(1,2631)	1:80:A:LYS:HA	1:86:A:LEU:HD13	6	0.35
(1,2589)	1:113:A:LEU:HA	1:118:A:THR:HG23	6	0.35
(1,2589)	1:113:A:LEU:HA	1:118:A:THR:HG22	12	0.35
(1,2567)	1:146:A:ASP:HA	1:147:A:PRO:HG2	6	0.35
(1,2564)	1:26:A:ALA:HB1	1:26:A:ALA:HA	6	0.35
(1,2564)	1:26:A:ALA:HB2	1:26:A:ALA:HA	8	0.35
(1,2564)	1:26:A:ALA:HB1	1:26:A:ALA:HA	9	0.35
(1,2564)	1:26:A:ALA:HB1	1:26:A:ALA:HA	11	0.35
(1,2564)	1:26:A:ALA:HB2	1:26:A:ALA:HA	14	0.35
(1,2564)	1:26:A:ALA:HB3	1:26:A:ALA:HA	17	0.35
(1,2564)	1:26:A:ALA:HB3	1:26:A:ALA:HA	20	0.35
(1,2500)	1:73:A:ARG:HD2	1:73:A:ARG:HG3	18	0.35
(1,2490)	1:39:A:ARG:HD2	1:38:A:VAL:HG11	7	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2475)	1:80:A:LYS:HE2	1:86:A:LEU:HD13	8	0.35
(1,2452)	1:46:A:LYS:HD3	1:46:A:LYS:HE3	2	0.35
(1,2452)	1:46:A:LYS:HD3	1:46:A:LYS:HE3	4	0.35
(1,2452)	1:46:A:LYS:HD3	1:46:A:LYS:HE3	6	0.35
(1,2452)	1:46:A:LYS:HD3	1:46:A:LYS:HE3	7	0.35
(1,2452)	1:46:A:LYS:HD3	1:46:A:LYS:HE3	8	0.35
(1,2452)	1:46:A:LYS:HD3	1:46:A:LYS:HE3	10	0.35
(1,2452)	1:46:A:LYS:HD3	1:46:A:LYS:HE3	11	0.35
(1,2452)	1:46:A:LYS:HD3	1:46:A:LYS:HE3	13	0.35
(1,2452)	1:46:A:LYS:HD3	1:46:A:LYS:HE3	14	0.35
(1,2452)	1:46:A:LYS:HD3	1:46:A:LYS:HE3	15	0.35
(1,2452)	1:46:A:LYS:HD3	1:46:A:LYS:HE3	16	0.35
(1,2452)	1:46:A:LYS:HD3	1:46:A:LYS:HE3	17	0.35
(1,2452)	1:46:A:LYS:HD3	1:46:A:LYS:HE3	18	0.35
(1,2452)	1:46:A:LYS:HD3	1:46:A:LYS:HE3	20	0.35
(1,2440)	1:28:A:ASP:HB3	1:25:A:GLY:HA3	13	0.35
(1,2432)	1:63:A:LYS:HE3	1:49:A:SER:HA	13	0.35
(1,2401)	1:34:A:TYR:HB3	1:31:A:VAL:HG13	20	0.35
(1,2385)	1:159:A:GLU:HG3	1:154:A:ALA:HB3	18	0.35
(1,2383)	1:35:A:GLU:HG3	1:38:A:VAL:HG13	15	0.35
(1,2378)	1:35:A:GLU:HG3	1:35:A:GLU:HA	17	0.35
(1,2369)	1:134:A:GLU:HG3	1:135:A:LYS:HG2	1	0.35
(1,2353)	1:133:A:GLU:HG3	1:130:A:VAL:HG12	2	0.35
(1,2353)	1:133:A:GLU:HG3	1:130:A:VAL:HG12	16	0.35
(1,2299)	1:102:A:GLN:HB3	1:89:A:VAL:HG12	10	0.35
(1,2299)	1:102:A:GLN:HB3	1:89:A:VAL:HG12	13	0.35
(1,2278)	1:123:A:LYS:HB2	1:174:A:LEU:HD23	8	0.35
(1,2274)	1:31:A:VAL:HG21	1:31:A:VAL:HB	1	0.35
(1,2274)	1:31:A:VAL:HG21	1:31:A:VAL:HB	2	0.35
(1,2274)	1:31:A:VAL:HG23	1:31:A:VAL:HB	3	0.35
(1,2274)	1:31:A:VAL:HG21	1:31:A:VAL:HB	4	0.35
(1,2274)	1:31:A:VAL:HG22	1:31:A:VAL:HB	5	0.35
(1,2274)	1:31:A:VAL:HG21	1:31:A:VAL:HB	8	0.35
(1,2274)	1:31:A:VAL:HG23	1:31:A:VAL:HB	9	0.35
(1,2274)	1:31:A:VAL:HG22	1:31:A:VAL:HB	12	0.35
(1,2274)	1:31:A:VAL:HG23	1:31:A:VAL:HB	13	0.35
(1,2274)	1:31:A:VAL:HG22	1:31:A:VAL:HB	14	0.35
(1,2274)	1:31:A:VAL:HG23	1:31:A:VAL:HB	15	0.35
(1,2274)	1:31:A:VAL:HG21	1:31:A:VAL:HB	18	0.35
(1,2274)	1:31:A:VAL:HG21	1:31:A:VAL:HB	19	0.35
(1,2274)	1:31:A:VAL:HG22	1:31:A:VAL:HB	20	0.35
(1,2266)	1:149:A:MET:HB3	1:138:A:PHE:HA	20	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2253)	1:176:A:ARG:HB3	1:173:A:THR:HG22	9	0.35
(1,2219)	1:166:A:ILE:HG12	1:166:A:ILE:HG21	10	0.35
(1,2219)	1:166:A:ILE:HG12	1:166:A:ILE:HG21	14	0.35
(1,2190)	1:123:A:LYS:HD3	1:180:A:GLU:HA	8	0.35
(1,2179)	1:80:A:LYS:HD3	1:80:A:LYS:HB2	4	0.35
(1,2172)	1:46:A:LYS:HD3	1:46:A:LYS:HB2	1	0.35
(1,2172)	1:46:A:LYS:HD3	1:46:A:LYS:HB2	2	0.35
(1,2172)	1:46:A:LYS:HD3	1:46:A:LYS:HB2	3	0.35
(1,2172)	1:46:A:LYS:HD3	1:46:A:LYS:HB2	5	0.35
(1,2172)	1:46:A:LYS:HD3	1:46:A:LYS:HB2	9	0.35
(1,2172)	1:46:A:LYS:HD3	1:46:A:LYS:HB2	10	0.35
(1,2172)	1:46:A:LYS:HD3	1:46:A:LYS:HB2	12	0.35
(1,2172)	1:46:A:LYS:HD3	1:46:A:LYS:HB2	15	0.35
(1,2172)	1:46:A:LYS:HD3	1:46:A:LYS:HB2	20	0.35
(1,2141)	1:56:A:LYS:HD3	1:144:A:MET:HE1	13	0.35
(1,2076)	1:71:A:LEU:HG	1:39:A:ARG:HD3	8	0.35
(1,2064)	1:137:A:LEU:HD23	1:164:A:ILE:HG12	17	0.35
(1,2049)	1:113:A:LEU:HD11	1:113:A:LEU:HA	9	0.35
(1,2049)	1:113:A:LEU:HD11	1:113:A:LEU:HA	13	0.35
(1,2049)	1:113:A:LEU:HD11	1:113:A:LEU:HA	15	0.35
(1,2049)	1:113:A:LEU:HD13	1:113:A:LEU:HA	18	0.35
(1,2017)	1:167:A:ILE:HG23	1:93:A:LEU:HD13	18	0.35
(1,1958)	1:66:A:LEU:HD11	1:44:A:TYR:HB2	12	0.35
(1,1932)	1:94:A:LEU:HD21	1:94:A:LEU:HA	3	0.35
(1,1932)	1:94:A:LEU:HD22	1:94:A:LEU:HA	7	0.35
(1,1932)	1:94:A:LEU:HD22	1:94:A:LEU:HA	12	0.35
(1,1932)	1:94:A:LEU:HD23	1:94:A:LEU:HA	20	0.35
(1,1921)	1:67:A:LYS:HG2	1:44:A:TYR:HE2	1	0.35
(1,1903)	1:86:A:LEU:HD11	1:78:A:PHE:HA	4	0.35
(1,1903)	1:86:A:LEU:HD11	1:78:A:PHE:HA	9	0.35
(1,1891)	1:174:A:LEU:HD23	1:123:A:LYS:HE2	8	0.35
(1,1886)	1:174:A:LEU:HD21	1:174:A:LEU:HD13	3	0.35
(1,1886)	1:174:A:LEU:HD21	1:174:A:LEU:HD13	11	0.35
(1,1885)	1:174:A:LEU:HD22	1:12:A:ASP:HB3	18	0.35
(1,1884)	1:174:A:LEU:HD22	1:12:A:ASP:HB2	10	0.35
(1,1884)	1:174:A:LEU:HD23	1:12:A:ASP:HB2	18	0.35
(1,1867)	1:19:A:LEU:HD21	1:19:A:LEU:HA	14	0.35
(1,1865)	1:95:A:THR:HG21	1:170:A:THR:HA	16	0.35
(1,1860)	1:62:A:ALA:HB2	1:110:A:PHE:HE2	1	0.35
(1,1835)	1:173:A:THR:HG23	1:176:A:ARG:HD3	2	0.35
(1,1825)	1:45:A:THR:HG22	1:46:A:LYS:HA	6	0.35
(1,1825)	1:45:A:THR:HG21	1:46:A:LYS:HA	10	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1825)	1:45:A:THR:HG21	1:46:A:LYS:HA	18	0.35
(1,1825)	1:45:A:THR:HG22	1:46:A:LYS:HA	19	0.35
(1,1797)	1:113:A:LEU:HD22	1:81:A:ASN:HB3	9	0.35
(1,1787)	1:101:A:LEU:HD23	1:66:A:LEU:HD12	15	0.35
(1,1752)	1:89:A:VAL:HG11	1:79:A:LEU:HD11	5	0.35
(1,1720)	1:154:A:ALA:HB1	1:77:A:VAL:HG11	7	0.35
(1,1710)	1:89:A:VAL:HG23	1:79:A:LEU:HG	4	0.35
(1,1692)	1:111:A:ALA:HB3	1:102:A:GLN:HG3	3	0.35
(1,1644)	1:52:A:ILE:HG22	1:60:A:MET:HG2	4	0.35
(1,1644)	1:52:A:ILE:HG23	1:60:A:MET:HG2	10	0.35
(1,1642)	1:52:A:ILE:HG21	1:52:A:ILE:HG13	16	0.35
(1,1630)	1:24:A:ILE:HG23	1:24:A:ILE:HB	1	0.35
(1,1630)	1:24:A:ILE:HG21	1:24:A:ILE:HB	3	0.35
(1,1630)	1:24:A:ILE:HG22	1:24:A:ILE:HB	4	0.35
(1,1630)	1:24:A:ILE:HG21	1:24:A:ILE:HB	7	0.35
(1,1630)	1:24:A:ILE:HG22	1:24:A:ILE:HB	8	0.35
(1,1630)	1:24:A:ILE:HG22	1:24:A:ILE:HB	13	0.35
(1,1630)	1:24:A:ILE:HG23	1:24:A:ILE:HB	14	0.35
(1,1630)	1:24:A:ILE:HG22	1:24:A:ILE:HB	15	0.35
(1,1630)	1:24:A:ILE:HG21	1:24:A:ILE:HB	16	0.35
(1,1630)	1:24:A:ILE:HG22	1:24:A:ILE:HB	20	0.35
(1,1620)	1:182:A:ILE:HG22	1:181:A:GLY:HA2	2	0.35
(1,1614)	1:171:A:ILE:HG22	1:174:A:LEU:HD13	16	0.35
(1,1593)	1:55:A:MET:HE3	1:121:A:SER:HB3	2	0.35
(1,1582)	1:164:A:ILE:HG22	1:129:A:GLU:HG2	18	0.35
(1,1575)	1:164:A:ILE:HD12	1:161:A:ASN:HB3	7	0.35
(1,1575)	1:164:A:ILE:HD13	1:161:A:ASN:HB3	9	0.35
(1,1533)	1:52:A:ILE:HD13	1:52:A:ILE:HA	3	0.35
(1,1533)	1:52:A:ILE:HD13	1:52:A:ILE:HA	4	0.35
(1,1533)	1:52:A:ILE:HD12	1:52:A:ILE:HA	7	0.35
(1,1533)	1:52:A:ILE:HD12	1:52:A:ILE:HA	11	0.35
(1,1533)	1:52:A:ILE:HD11	1:52:A:ILE:HA	19	0.35
(1,1526)	1:166:A:ILE:HD13	1:166:A:ILE:HA	16	0.35
(1,1525)	1:166:A:ILE:HD12	1:169:A:ASP:HB3	19	0.35
(1,1504)	1:163:A:TRP:HE1	1:75:A:GLY:HA2	20	0.35
(1,1463)	1:85:A:ARG:H	1:85:A:ARG:HG3	11	0.35
(1,1355)	1:15:A:GLN:H	1:14:A:ALA:HB3	16	0.35
(1,1350)	1:51:A:SER:H	1:109:A:ILE:HG22	4	0.35
(1,1311)	1:63:A:LYS:H	1:63:A:LYS:HD2	2	0.35
(1,1307)	1:63:A:LYS:H	1:47:A:THR:HG21	17	0.35
(1,1295)	1:118:A:THR:H	1:117:A:SER:HB3	8	0.35
(1,1295)	1:118:A:THR:H	1:117:A:SER:HB3	10	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1284)	1:44:A:TYR:H	1:44:A:TYR:HD1	10	0.35
(1,1284)	1:44:A:TYR:H	1:44:A:TYR:HD1	17	0.35
(1,1275)	1:163:A:TRP:HE1	1:154:A:ALA:HB1	16	0.35
(1,1268)	1:153:A:HIS:H	1:152:A:VAL:HG11	16	0.35
(1,1241)	1:96:A:ASP:H	1:95:A:THR:HG21	9	0.35
(1,1241)	1:96:A:ASP:H	1:95:A:THR:HG23	13	0.35
(1,1216)	1:118:A:THR:H	1:117:A:SER:HB2	18	0.35
(1,1167)	1:78:A:PHE:H	1:77:A:VAL:HG13	3	0.35
(1,1167)	1:78:A:PHE:H	1:77:A:VAL:HG12	17	0.35
(1,1117)	1:65:A:ASP:H	1:64:A:GLU:HB2	16	0.35
(1,1088)	1:166:A:ILE:H	1:166:A:ILE:HD12	3	0.35
(1,1060)	1:172:A:ASN:H	1:171:A:ILE:HG23	7	0.35
(1,1011)	1:47:A:THR:H	1:46:A:LYS:HD2	18	0.35
(1,1001)	1:119:A:VAL:H	1:119:A:VAL:HG22	4	0.35
(1,1001)	1:119:A:VAL:H	1:119:A:VAL:HG23	9	0.35
(1,992)	1:27:A:VAL:H	1:26:A:ALA:HB1	17	0.35
(1,938)	1:102:A:GLN:H	1:101:A:LEU:HB2	1	0.35
(1,938)	1:102:A:GLN:H	1:101:A:LEU:HB2	11	0.35
(1,938)	1:102:A:GLN:H	1:101:A:LEU:HB2	14	0.35
(1,938)	1:102:A:GLN:H	1:101:A:LEU:HB2	17	0.35
(1,878)	1:43:A:ILE:H	1:43:A:ILE:HD13	2	0.35
(1,878)	1:43:A:ILE:H	1:43:A:ILE:HD12	20	0.35
(1,852)	1:159:A:GLU:H	1:154:A:ALA:HB1	6	0.35
(1,852)	1:159:A:GLU:H	1:154:A:ALA:HB2	8	0.35
(1,852)	1:159:A:GLU:H	1:154:A:ALA:HB3	15	0.35
(1,852)	1:159:A:GLU:H	1:154:A:ALA:HB2	16	0.35
(1,782)	1:92:A:VAL:H	1:99:A:VAL:HB	13	0.35
(1,716)	1:141:A:SER:H	1:126:A:ILE:HD12	8	0.35
(1,701)	1:137:A:LEU:H	1:130:A:VAL:HG22	15	0.35
(1,700)	1:137:A:LEU:H	1:137:A:LEU:HD23	15	0.35
(1,667)	1:24:A:ILE:H	1:27:A:VAL:HG23	14	0.35
(1,658)	1:122:A:LEU:H	1:97:A:ILE:HB	3	0.35
(1,652)	1:171:A:ILE:H	1:171:A:ILE:HG23	1	0.35
(1,652)	1:171:A:ILE:H	1:171:A:ILE:HG22	5	0.35
(1,652)	1:171:A:ILE:H	1:171:A:ILE:HG21	6	0.35
(1,652)	1:171:A:ILE:H	1:171:A:ILE:HG23	16	0.35
(1,564)	1:104:A:LYS:H	1:103:A:GLU:HG3	17	0.35
(1,549)	1:61:A:PHE:H	1:52:A:ILE:HG21	13	0.35
(1,506)	1:35:A:GLU:HA	1:34:A:TYR:HD2	14	0.35
(1,505)	1:37:A:LYS:HE2	1:34:A:TYR:HD2	13	0.35
(1,492)	1:95:A:THR:HG21	1:10:A:GLN:HB2	4	0.35
(1,492)	1:95:A:THR:HG22	1:69:A:LYS:HB2	19	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,481)	1:149:A:MET:HG3	1:138:A:PHE:HZ	1	0.35
(1,481)	1:149:A:MET:HG3	1:138:A:PHE:HZ	15	0.35
(1,477)	1:50:A:LYS:HD2	1:50:A:LYS:HE2	15	0.35
(1,477)	1:50:A:LYS:HD2	1:50:A:LYS:HE2	19	0.35
(1,449)	1:31:A:VAL:HG12	1:30:A:LYS:HD3	1	0.35
(1,439)	1:35:A:GLU:HB2	1:31:A:VAL:HG11	11	0.35
(1,396)	1:21:A:LYS:HA	1:21:A:LYS:HG2	1	0.35
(1,396)	1:21:A:LYS:HA	1:21:A:LYS:HG2	5	0.35
(1,391)	1:64:A:GLU:HG3	1:44:A:TYR:HE2	14	0.35
(1,390)	1:170:A:THR:HA	1:72:A:VAL:HG12	3	0.35
(1,390)	1:170:A:THR:HA	1:171:A:ILE:HD13	9	0.35
(1,390)	1:170:A:THR:HA	1:171:A:ILE:HD12	12	0.35
(1,390)	1:170:A:THR:HA	1:171:A:ILE:HD11	13	0.35
(1,390)	1:170:A:THR:HA	1:171:A:ILE:HD11	17	0.35
(1,365)	1:76:A:SER:HB3	1:78:A:PHE:HD1	13	0.35
(1,363)	1:37:A:LYS:HA	1:37:A:LYS:HE3	11	0.35
(1,351)	1:56:A:LYS:HG2	1:56:A:LYS:HA	13	0.35
(1,349)	1:8:A:VAL:HG22	1:8:A:VAL:HA	8	0.35
(1,327)	1:104:A:LYS:HB3	1:104:A:LYS:HA	2	0.35
(1,327)	1:104:A:LYS:HB3	1:104:A:LYS:HA	5	0.35
(1,327)	1:104:A:LYS:HB3	1:104:A:LYS:HA	13	0.35
(1,327)	1:104:A:LYS:HB3	1:104:A:LYS:HA	14	0.35
(1,327)	1:104:A:LYS:HB3	1:104:A:LYS:HA	16	0.35
(1,315)	1:82:A:ALA:HA	1:116:A:LYS:HG3	6	0.35
(1,302)	1:25:A:GLY:HA2	1:28:A:ASP:HB3	5	0.35
(1,302)	1:25:A:GLY:HA2	1:28:A:ASP:HB3	11	0.35
(1,295)	1:50:A:LYS:HE2	1:50:A:LYS:HA	2	0.35
(1,295)	1:50:A:LYS:HE3	1:50:A:LYS:HA	19	0.35
(1,294)	1:22:A:ASP:HB2	1:19:A:LEU:HA	1	0.35
(1,294)	1:22:A:ASP:HB2	1:21:A:LYS:HA	12	0.35
(1,290)	1:83:A:ALA:HB2	1:85:A:ARG:HD3	14	0.35
(1,290)	1:83:A:ALA:HB3	1:85:A:ARG:HD3	18	0.35
(1,290)	1:83:A:ALA:HB2	1:85:A:ARG:HD3	20	0.35
(1,277)	1:157:A:LYS:HE3	1:134:A:GLU:HB3	1	0.35
(1,253)	1:115:A:GLN:HG2	1:113:A:LEU:HB2	9	0.35
(1,243)	1:4:A:LYS:HB2	1:4:A:LYS:HE3	14	0.35
(1,242)	1:4:A:LYS:HB3	1:4:A:LYS:HE2	13	0.35
(1,217)	1:37:A:LYS:HD3	1:37:A:LYS:HA	15	0.35
(1,217)	1:37:A:LYS:HD3	1:37:A:LYS:HA	18	0.35
(1,208)	1:93:A:LEU:HD21	1:170:A:THR:HG21	5	0.35
(1,144)	1:30:A:LYS:HG3	1:30:A:LYS:HD2	12	0.35
(1,142)	1:56:A:LYS:HG2	1:56:A:LYS:HD2	8	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,139)	1:19:A:LEU:HD13	1:19:A:LEU:HG	2	0.35
(1,139)	1:19:A:LEU:HD13	1:19:A:LEU:HG	6	0.35
(1,126)	1:95:A:THR:HG22	1:70:A:LYS:HD3	1	0.35
(1,78)	1:107:A:LYS:H	1:103:A:GLU:HG2	3	0.35
(1,61)	1:79:A:LEU:H	1:87:A:LYS:HB2	8	0.35
(1,57)	1:75:A:GLY:H	1:77:A:VAL:HG22	15	0.35
(1,46)	1:175:A:ASN:H	1:174:A:LEU:HG	17	0.35
(1,46)	1:175:A:ASN:H	1:174:A:LEU:HG	20	0.35
(1,38)	1:138:A:PHE:H	1:164:A:ILE:HD12	16	0.35
(1,32)	1:139:A:LEU:H	1:138:A:PHE:HD1	11	0.35
(1,32)	1:139:A:LEU:H	1:138:A:PHE:HD1	13	0.35
(2,21)	1:161:A:ASN:H	1:158:A:GLU:O	3	0.34
(2,11)	1:97:A:ILE:H	1:94:A:LEU:O	1	0.34
(2,2)	1:72:A:VAL:H	1:93:A:LEU:O	18	0.34
(1,3501)	1:86:A:LEU:HB2	1:78:A:PHE:HD2	13	0.34
(1,3400)	1:126:A:ILE:HG23	1:142:A:MET:HG2	5	0.34
(1,3400)	1:126:A:ILE:HG22	1:142:A:MET:HG2	8	0.34
(1,3400)	1:126:A:ILE:HG23	1:142:A:MET:HG2	15	0.34
(1,3399)	1:125:A:LEU:HD23	1:170:A:THR:HB	17	0.34
(1,3391)	1:11:A:GLU:HB3	1:12:A:ASP:HB2	3	0.34
(1,3371)	1:67:A:LYS:HD2	1:67:A:LYS:HB3	14	0.34
(1,3370)	1:174:A:LEU:HD23	1:171:A:ILE:HA	8	0.34
(1,3321)	1:60:A:MET:HE2	1:60:A:MET:HA	9	0.34
(1,3321)	1:60:A:MET:HE2	1:60:A:MET:HA	12	0.34
(1,3321)	1:60:A:MET:HE3	1:60:A:MET:HA	13	0.34
(1,3321)	1:60:A:MET:HE2	1:60:A:MET:HA	17	0.34
(1,3321)	1:60:A:MET:HE2	1:60:A:MET:HA	20	0.34
(1,3283)	1:88:A:GLU:HG2	1:78:A:PHE:H	3	0.34
(1,3283)	1:88:A:GLU:HG2	1:78:A:PHE:H	4	0.34
(1,3283)	1:88:A:GLU:HG2	1:78:A:PHE:H	5	0.34
(1,3283)	1:88:A:GLU:HG2	1:78:A:PHE:H	13	0.34
(1,3278)	1:76:A:SER:H	1:77:A:VAL:HG22	1	0.34
(1,3278)	1:76:A:SER:H	1:77:A:VAL:HG21	2	0.34
(1,3278)	1:76:A:SER:H	1:77:A:VAL:HG21	9	0.34
(1,3278)	1:76:A:SER:H	1:77:A:VAL:HG22	12	0.34
(1,3277)	1:111:A:ALA:HB2	1:100:A:PHE:HD2	20	0.34
(1,3276)	1:111:A:ALA:HB2	1:109:A:ILE:H	6	0.34
(1,3276)	1:111:A:ALA:HB2	1:109:A:ILE:H	16	0.34
(1,3274)	1:97:A:ILE:HG23	1:61:A:PHE:HD1	8	0.34
(1,3267)	1:167:A:ILE:HD12	1:171:A:ILE:H	15	0.34
(1,3265)	1:76:A:SER:HB2	1:76:A:SER:H	9	0.34
(1,3244)	1:94:A:LEU:HD11	1:92:A:VAL:H	10	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3235)	1:125:A:LEU:HD21	1:171:A:ILE:H	4	0.34
(1,3230)	1:86:A:LEU:HD22	1:153:A:HIS:HD2	15	0.34
(1,3221)	1:152:A:VAL:HG21	1:150:A:VAL:H	18	0.34
(1,3207)	1:166:A:ILE:HG22	1:167:A:ILE:H	15	0.34
(1,3185)	1:142:A:MET:HA	1:147:A:PRO:HB2	1	0.34
(1,3149)	1:47:A:THR:HG22	1:63:A:LYS:HE2	14	0.34
(1,3116)	1:87:A:LYS:HE3	1:113:A:LEU:HD21	9	0.34
(1,3052)	1:55:A:MET:HE2	1:61:A:PHE:HZ	10	0.34
(1,3052)	1:55:A:MET:HE3	1:61:A:PHE:HZ	18	0.34
(1,2994)	1:11:A:GLU:HG2	1:11:A:GLU:HA	2	0.34
(1,2988)	1:43:A:ILE:HD12	1:40:A:LEU:HA	7	0.34
(1,2983)	1:36:A:LYS:HD3	1:36:A:LYS:HA	7	0.34
(1,2924)	1:166:A:ILE:HD12	1:163:A:TRP:HA	6	0.34
(1,2918)	1:141:A:SER:HB2	1:140:A:ILE:HG22	19	0.34
(1,2903)	1:169:A:ASP:H	1:165:A:GLN:HG2	16	0.34
(1,2902)	1:46:A:LYS:HB2	1:108:A:TYR:HE2	1	0.34
(1,2902)	1:46:A:LYS:HB2	1:108:A:TYR:HE2	3	0.34
(1,2851)	1:38:A:VAL:HG12	1:38:A:VAL:HA	3	0.34
(1,2851)	1:38:A:VAL:HG12	1:38:A:VAL:HA	6	0.34
(1,2851)	1:38:A:VAL:HG13	1:38:A:VAL:HA	19	0.34
(1,2832)	1:119:A:VAL:HA	1:120:A:ILE:HD13	7	0.34
(1,2819)	1:121:A:SER:HA	1:121:A:SER:HB2	18	0.34
(1,2794)	1:34:A:TYR:HA	1:38:A:VAL:HG22	2	0.34
(1,2794)	1:34:A:TYR:HA	1:38:A:VAL:HG21	8	0.34
(1,2793)	1:120:A:ILE:HD12	1:118:A:THR:HA	5	0.34
(1,2774)	1:77:A:VAL:HA	1:89:A:VAL:HG21	20	0.34
(1,2721)	1:61:A:PHE:HA	1:61:A:PHE:HE2	13	0.34
(1,2720)	1:41:A:ASN:HA	1:44:A:TYR:HE2	12	0.34
(1,2720)	1:41:A:ASN:HA	1:44:A:TYR:HE2	13	0.34
(1,2645)	1:142:A:MET:HA	1:147:A:PRO:HG2	2	0.34
(1,2599)	1:69:A:LYS:HA	1:69:A:LYS:HE2	13	0.34
(1,2594)	1:14:A:ALA:HA	1:19:A:LEU:HB2	5	0.34
(1,2589)	1:113:A:LEU:HA	1:118:A:THR:HG21	9	0.34
(1,2589)	1:113:A:LEU:HA	1:118:A:THR:HG23	17	0.34
(1,2567)	1:146:A:ASP:HA	1:147:A:PRO:HG2	14	0.34
(1,2564)	1:26:A:ALA:HB3	1:26:A:ALA:HA	2	0.34
(1,2564)	1:26:A:ALA:HB2	1:26:A:ALA:HA	3	0.34
(1,2564)	1:26:A:ALA:HB3	1:26:A:ALA:HA	12	0.34
(1,2564)	1:26:A:ALA:HB1	1:26:A:ALA:HA	13	0.34
(1,2564)	1:26:A:ALA:HB3	1:26:A:ALA:HA	16	0.34
(1,2541)	1:136:A:GLY:HA2	1:130:A:VAL:HB	14	0.34
(1,2500)	1:73:A:ARG:HD2	1:73:A:ARG:HG3	15	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2493)	1:128:A:ARG:HB2	1:128:A:ARG:HD3	18	0.34
(1,2492)	1:176:A:ARG:HB3	1:176:A:ARG:HD3	15	0.34
(1,2469)	1:22:A:ASP:HB2	1:24:A:ILE:HG12	5	0.34
(1,2442)	1:146:A:ASP:HB3	1:147:A:PRO:HD3	11	0.34
(1,2401)	1:34:A:TYR:HB3	1:31:A:VAL:HG11	12	0.34
(1,2317)	1:67:A:LYS:HB3	1:44:A:TYR:HE2	18	0.34
(1,2299)	1:102:A:GLN:HB3	1:89:A:VAL:HG13	7	0.34
(1,2278)	1:123:A:LYS:HB2	1:174:A:LEU:HD21	5	0.34
(1,2278)	1:123:A:LYS:HB2	1:174:A:LEU:HD23	17	0.34
(1,2274)	1:31:A:VAL:HG22	1:31:A:VAL:HB	6	0.34
(1,2274)	1:31:A:VAL:HG21	1:31:A:VAL:HB	7	0.34
(1,2274)	1:31:A:VAL:HG21	1:31:A:VAL:HB	10	0.34
(1,2274)	1:31:A:VAL:HG22	1:31:A:VAL:HB	16	0.34
(1,2266)	1:149:A:MET:HB3	1:138:A:PHE:HA	1	0.34
(1,2266)	1:149:A:MET:HB3	1:138:A:PHE:HA	17	0.34
(1,2253)	1:176:A:ARG:HB3	1:173:A:THR:HG23	17	0.34
(1,2253)	1:176:A:ARG:HB3	1:173:A:THR:HG21	19	0.34
(1,2226)	1:11:A:GLU:HB3	1:177:A:ASP:HB3	11	0.34
(1,2226)	1:11:A:GLU:HB3	1:177:A:ASP:HB3	16	0.34
(1,2222)	1:154:A:ALA:HB2	1:159:A:GLU:HB2	20	0.34
(1,2219)	1:166:A:ILE:HG12	1:166:A:ILE:HG22	4	0.34
(1,2219)	1:166:A:ILE:HG12	1:166:A:ILE:HG23	9	0.34
(1,2215)	1:109:A:ILE:HD12	1:104:A:LYS:HD3	17	0.34
(1,2197)	1:68:A:ARG:HB3	1:68:A:ARG:HD3	8	0.34
(1,2172)	1:46:A:LYS:HD3	1:46:A:LYS:HB2	4	0.34
(1,2172)	1:46:A:LYS:HD3	1:46:A:LYS:HB2	6	0.34
(1,2172)	1:46:A:LYS:HD3	1:46:A:LYS:HB2	8	0.34
(1,2172)	1:46:A:LYS:HD3	1:46:A:LYS:HB2	13	0.34
(1,2172)	1:46:A:LYS:HD3	1:46:A:LYS:HB2	14	0.34
(1,2172)	1:46:A:LYS:HD3	1:46:A:LYS:HB2	16	0.34
(1,2172)	1:46:A:LYS:HD3	1:46:A:LYS:HB2	17	0.34
(1,2172)	1:46:A:LYS:HD3	1:46:A:LYS:HB2	18	0.34
(1,2157)	1:135:A:LYS:HD3	1:135:A:LYS:HB3	2	0.34
(1,2157)	1:135:A:LYS:HD3	1:135:A:LYS:HB3	3	0.34
(1,2153)	1:64:A:GLU:HB2	1:44:A:TYR:HE2	4	0.34
(1,2099)	1:66:A:LEU:HG	1:97:A:ILE:HG13	20	0.34
(1,2049)	1:113:A:LEU:HD12	1:113:A:LEU:HA	2	0.34
(1,2049)	1:113:A:LEU:HD11	1:113:A:LEU:HA	3	0.34
(1,2027)	1:124:A:LYS:HG2	1:123:A:LYS:HB3	10	0.34
(1,2017)	1:167:A:ILE:HG23	1:93:A:LEU:HD11	3	0.34
(1,2017)	1:167:A:ILE:HG23	1:93:A:LEU:HD12	8	0.34
(1,1958)	1:66:A:LEU:HD11	1:44:A:TYR:HB2	6	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1946)	1:50:A:LYS:HG2	1:60:A:MET:HE2	1	0.34
(1,1946)	1:50:A:LYS:HG2	1:60:A:MET:HE3	6	0.34
(1,1923)	1:67:A:LYS:HG2	1:44:A:TYR:HD2	2	0.34
(1,1923)	1:67:A:LYS:HG2	1:44:A:TYR:HD2	6	0.34
(1,1923)	1:67:A:LYS:HG2	1:44:A:TYR:HD2	19	0.34
(1,1903)	1:86:A:LEU:HD13	1:78:A:PHE:HA	1	0.34
(1,1903)	1:86:A:LEU:HD12	1:78:A:PHE:HA	10	0.34
(1,1891)	1:174:A:LEU:HD21	1:123:A:LYS:HE2	18	0.34
(1,1886)	1:174:A:LEU:HD21	1:174:A:LEU:HD12	19	0.34
(1,1886)	1:174:A:LEU:HD22	1:174:A:LEU:HD13	20	0.34
(1,1865)	1:95:A:THR:HG21	1:170:A:THR:HA	5	0.34
(1,1865)	1:95:A:THR:HG23	1:170:A:THR:HA	18	0.34
(1,1865)	1:95:A:THR:HG23	1:170:A:THR:HA	19	0.34
(1,1855)	1:62:A:ALA:HB1	1:63:A:LYS:HB3	3	0.34
(1,1855)	1:62:A:ALA:HB3	1:63:A:LYS:HB3	8	0.34
(1,1855)	1:62:A:ALA:HB1	1:63:A:LYS:HB3	14	0.34
(1,1835)	1:173:A:THR:HG22	1:176:A:ARG:HD3	18	0.34
(1,1835)	1:173:A:THR:HG21	1:176:A:ARG:HD3	20	0.34
(1,1815)	1:173:A:THR:HG22	1:176:A:ARG:HB2	20	0.34
(1,1797)	1:113:A:LEU:HD21	1:81:A:ASN:HB3	8	0.34
(1,1787)	1:101:A:LEU:HD21	1:66:A:LEU:HD12	16	0.34
(1,1763)	1:99:A:VAL:HG11	1:101:A:LEU:HG	5	0.34
(1,1752)	1:89:A:VAL:HG11	1:79:A:LEU:HD11	4	0.34
(1,1752)	1:89:A:VAL:HG12	1:79:A:LEU:HD13	8	0.34
(1,1741)	1:119:A:VAL:HG12	1:110:A:PHE:HD1	1	0.34
(1,1731)	1:31:A:VAL:HG11	1:32:A:ALA:HA	17	0.34
(1,1698)	1:91:A:ALA:HB1	1:98:A:LEU:HD22	16	0.34
(1,1684)	1:32:A:ALA:HB1	1:32:A:ALA:HA	11	0.34
(1,1684)	1:32:A:ALA:HB1	1:32:A:ALA:HA	13	0.34
(1,1684)	1:32:A:ALA:HB3	1:32:A:ALA:HA	15	0.34
(1,1684)	1:32:A:ALA:HB3	1:32:A:ALA:HA	19	0.34
(1,1649)	1:167:A:ILE:HG22	1:127:A:VAL:HB	20	0.34
(1,1641)	1:82:A:ALA:HB2	1:82:A:ALA:HA	16	0.34
(1,1630)	1:24:A:ILE:HG22	1:24:A:ILE:HB	5	0.34
(1,1630)	1:24:A:ILE:HG23	1:24:A:ILE:HB	9	0.34
(1,1614)	1:171:A:ILE:HG21	1:174:A:LEU:HD13	4	0.34
(1,1610)	1:60:A:MET:HE1	1:60:A:MET:HG3	3	0.34
(1,1610)	1:60:A:MET:HE1	1:60:A:MET:HG3	12	0.34
(1,1610)	1:60:A:MET:HE1	1:60:A:MET:HG3	17	0.34
(1,1602)	1:149:A:MET:HE1	1:138:A:PHE:HD2	7	0.34
(1,1592)	1:55:A:MET:HE2	1:121:A:SER:HB2	20	0.34
(1,1580)	1:164:A:ILE:HG21	1:127:A:VAL:HB	15	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1575)	1:164:A:ILE:HD11	1:161:A:ASN:HB3	4	0.34
(1,1575)	1:164:A:ILE:HD12	1:161:A:ASN:HB3	13	0.34
(1,1570)	1:171:A:ILE:HD12	1:122:A:LEU:HB3	17	0.34
(1,1539)	1:140:A:ILE:HD11	1:149:A:MET:HB2	8	0.34
(1,1533)	1:52:A:ILE:HD13	1:52:A:ILE:HA	6	0.34
(1,1533)	1:52:A:ILE:HD12	1:52:A:ILE:HA	10	0.34
(1,1525)	1:166:A:ILE:HD13	1:169:A:ASP:HB3	16	0.34
(1,1498)	1:54:A:ARG:H	1:54:A:ARG:HG2	8	0.34
(1,1463)	1:85:A:ARG:H	1:85:A:ARG:HG3	3	0.34
(1,1457)	1:107:A:LYS:H	1:104:A:LYS:HB2	10	0.34
(1,1416)	1:79:A:LEU:H	1:89:A:VAL:HG21	13	0.34
(1,1400)	1:69:A:LYS:H	1:68:A:ARG:HB3	12	0.34
(1,1400)	1:69:A:LYS:H	1:68:A:ARG:HB3	20	0.34
(1,1350)	1:51:A:SER:H	1:109:A:ILE:HG22	10	0.34
(1,1342)	1:100:A:PHE:H	1:98:A:LEU:HD22	15	0.34
(1,1307)	1:63:A:LYS:H	1:47:A:THR:HG22	20	0.34
(1,1284)	1:44:A:TYR:H	1:44:A:TYR:HD1	4	0.34
(1,1275)	1:163:A:TRP:HE1	1:154:A:ALA:HB3	6	0.34
(1,1275)	1:163:A:TRP:HE1	1:154:A:ALA:HB2	7	0.34
(1,1275)	1:163:A:TRP:HE1	1:154:A:ALA:HB2	12	0.34
(1,1216)	1:118:A:THR:H	1:117:A:SER:HB2	9	0.34
(1,1199)	1:67:A:LYS:H	1:67:A:LYS:HB3	6	0.34
(1,1167)	1:78:A:PHE:H	1:77:A:VAL:HG13	7	0.34
(1,1167)	1:78:A:PHE:H	1:77:A:VAL:HG11	16	0.34
(1,1167)	1:78:A:PHE:H	1:77:A:VAL:HG13	19	0.34
(1,1088)	1:166:A:ILE:H	1:166:A:ILE:HD13	18	0.34
(1,1060)	1:172:A:ASN:H	1:171:A:ILE:HG22	2	0.34
(1,1060)	1:172:A:ASN:H	1:171:A:ILE:HG21	8	0.34
(1,1039)	1:170:A:THR:H	1:171:A:ILE:HD11	20	0.34
(1,1001)	1:119:A:VAL:H	1:119:A:VAL:HG23	18	0.34
(1,992)	1:27:A:VAL:H	1:26:A:ALA:HB2	6	0.34
(1,992)	1:27:A:VAL:H	1:26:A:ALA:HB2	15	0.34
(1,943)	1:178:A:GLU:H	1:178:A:GLU:HG2	1	0.34
(1,942)	1:178:A:GLU:H	1:177:A:ASP:HB3	6	0.34
(1,942)	1:178:A:GLU:H	1:177:A:ASP:HB3	20	0.34
(1,938)	1:102:A:GLN:H	1:101:A:LEU:HB2	9	0.34
(1,938)	1:102:A:GLN:H	1:101:A:LEU:HB2	10	0.34
(1,938)	1:102:A:GLN:H	1:101:A:LEU:HB2	18	0.34
(1,878)	1:43:A:ILE:H	1:43:A:ILE:HD11	3	0.34
(1,878)	1:43:A:ILE:H	1:43:A:ILE:HD11	6	0.34
(1,878)	1:43:A:ILE:H	1:43:A:ILE:HD12	12	0.34
(1,878)	1:43:A:ILE:H	1:43:A:ILE:HD12	13	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,878)	1:43:A:ILE:H	1:43:A:ILE:HD11	14	0.34
(1,842)	1:110:A:PHE:H	1:109:A:ILE:HD11	13	0.34
(1,828)	1:86:A:LEU:H	1:86:A:LEU:HD13	5	0.34
(1,827)	1:86:A:LEU:H	1:86:A:LEU:HD23	3	0.34
(1,827)	1:86:A:LEU:H	1:86:A:LEU:HD23	14	0.34
(1,716)	1:141:A:SER:H	1:126:A:ILE:HD11	4	0.34
(1,716)	1:141:A:SER:H	1:126:A:ILE:HD11	5	0.34
(1,716)	1:141:A:SER:H	1:126:A:ILE:HD12	12	0.34
(1,716)	1:141:A:SER:H	1:126:A:ILE:HD13	13	0.34
(1,701)	1:137:A:LEU:H	1:130:A:VAL:HG23	11	0.34
(1,700)	1:137:A:LEU:H	1:137:A:LEU:HD23	19	0.34
(1,699)	1:137:A:LEU:H	1:137:A:LEU:HD11	9	0.34
(1,676)	1:111:A:ALA:H	1:101:A:LEU:HD23	3	0.34
(1,549)	1:61:A:PHE:H	1:52:A:ILE:HG22	1	0.34
(1,548)	1:61:A:PHE:H	1:60:A:MET:HB2	8	0.34
(1,505)	1:37:A:LYS:HE2	1:34:A:TYR:HD1	1	0.34
(1,505)	1:37:A:LYS:HE2	1:34:A:TYR:HD2	10	0.34
(1,505)	1:37:A:LYS:HE2	1:34:A:TYR:HD1	19	0.34
(1,481)	1:149:A:MET:HG3	1:138:A:PHE:HZ	2	0.34
(1,457)	1:92:A:VAL:H	1:98:A:LEU:HD21	1	0.34
(1,449)	1:31:A:VAL:HG12	1:30:A:LYS:HD3	2	0.34
(1,446)	1:22:A:ASP:HA	1:21:A:LYS:HG3	18	0.34
(1,445)	1:70:A:LYS:HA	1:70:A:LYS:HD2	19	0.34
(1,404)	1:56:A:LYS:HA	1:144:A:MET:HE1	19	0.34
(1,396)	1:21:A:LYS:HA	1:21:A:LYS:HG2	10	0.34
(1,390)	1:170:A:THR:HA	1:171:A:ILE:HD13	15	0.34
(1,367)	1:121:A:SER:HB2	1:185:A:GLU:HA	6	0.34
(1,367)	1:121:A:SER:HB2	1:185:A:GLU:HA	11	0.34
(1,363)	1:37:A:LYS:HA	1:37:A:LYS:HE3	8	0.34
(1,363)	1:37:A:LYS:HA	1:37:A:LYS:HE3	18	0.34
(1,353)	1:67:A:LYS:HE3	1:67:A:LYS:HA	9	0.34
(1,351)	1:56:A:LYS:HG2	1:56:A:LYS:HA	5	0.34
(1,349)	1:8:A:VAL:HA	1:8:A:VAL:HG13	10	0.34
(1,346)	1:159:A:GLU:HB3	1:162:A:SER:HB2	9	0.34
(1,337)	1:184:A:SER:HA	1:185:A:GLU:HB3	14	0.34
(1,327)	1:104:A:LYS:HB3	1:104:A:LYS:HA	11	0.34
(1,327)	1:104:A:LYS:HB3	1:104:A:LYS:HA	12	0.34
(1,327)	1:104:A:LYS:HB3	1:104:A:LYS:HA	20	0.34
(1,315)	1:82:A:ALA:HA	1:116:A:LYS:HG3	7	0.34
(1,302)	1:25:A:GLY:HA2	1:28:A:ASP:HB3	17	0.34
(1,299)	1:85:A:ARG:HD2	1:84:A:GLY:HA2	5	0.34
(1,295)	1:50:A:LYS:HE3	1:50:A:LYS:HA	14	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,293)	1:67:A:LYS:HE3	1:64:A:GLU:HA	13	0.34
(1,291)	1:54:A:ARG:HD2	1:54:A:ARG:HB2	7	0.34
(1,291)	1:54:A:ARG:HD2	1:54:A:ARG:HB2	19	0.34
(1,290)	1:83:A:ALA:HB2	1:85:A:ARG:HD3	1	0.34
(1,279)	1:157:A:LYS:HG2	1:157:A:LYS:HE2	6	0.34
(1,279)	1:157:A:LYS:HG2	1:157:A:LYS:HE2	10	0.34
(1,272)	1:87:A:LYS:HE3	1:111:A:ALA:HB3	3	0.34
(1,253)	1:115:A:GLN:HG2	1:113:A:LEU:HB2	19	0.34
(1,243)	1:4:A:LYS:HB2	1:4:A:LYS:HE3	18	0.34
(1,242)	1:4:A:LYS:HB3	1:4:A:LYS:HE2	6	0.34
(1,223)	1:159:A:GLU:HB2	1:162:A:SER:HB3	2	0.34
(1,217)	1:37:A:LYS:HD3	1:37:A:LYS:HA	1	0.34
(1,217)	1:37:A:LYS:HD3	1:37:A:LYS:HA	17	0.34
(1,213)	1:123:A:LYS:HD3	1:181:A:GLY:HA2	15	0.34
(1,198)	1:56:A:LYS:HD3	1:121:A:SER:HB2	15	0.34
(1,197)	1:68:A:ARG:HG2	1:67:A:LYS:HE2	13	0.34
(1,171)	1:107:A:LYS:HG3	1:47:A:THR:HA	2	0.34
(1,171)	1:107:A:LYS:HG3	1:47:A:THR:HA	6	0.34
(1,160)	1:71:A:LEU:HD13	1:74:A:ASP:HA	5	0.34
(1,160)	1:71:A:LEU:HD12	1:74:A:ASP:HA	17	0.34
(1,154)	1:71:A:LEU:HD11	1:74:A:ASP:HB2	3	0.34
(1,126)	1:95:A:THR:HG21	1:70:A:LYS:HD2	12	0.34
(1,126)	1:95:A:THR:HG22	1:70:A:LYS:HD3	13	0.34
(1,89)	1:127:A:VAL:H	1:127:A:VAL:HG21	18	0.34
(1,85)	1:142:A:MET:H	1:141:A:SER:HB2	6	0.34
(1,61)	1:79:A:LEU:H	1:87:A:LYS:HB2	3	0.34
(1,61)	1:79:A:LEU:H	1:87:A:LYS:HB2	7	0.34
(1,58)	1:13:A:LEU:H	1:19:A:LEU:HD12	4	0.34
(1,46)	1:175:A:ASN:H	1:174:A:LEU:HG	8	0.34
(1,32)	1:139:A:LEU:H	1:138:A:PHE:HD1	5	0.34
(1,32)	1:139:A:LEU:H	1:138:A:PHE:HD1	9	0.34
(1,32)	1:139:A:LEU:H	1:138:A:PHE:HD1	10	0.34
(1,20)	1:11:A:GLU:H	1:178:A:GLU:H	9	0.34
(2,13)	1:101:A:LEU:H	1:90:A:GLN:O	6	0.33
(2,13)	1:101:A:LEU:H	1:90:A:GLN:O	15	0.33
(2,13)	1:101:A:LEU:H	1:90:A:GLN:O	16	0.33
(2,13)	1:101:A:LEU:H	1:90:A:GLN:O	18	0.33
(2,11)	1:97:A:ILE:H	1:94:A:LEU:O	7	0.33
(1,3514)	1:35:A:GLU:HA	1:34:A:TYR:HE2	1	0.33
(1,3400)	1:126:A:ILE:HG23	1:142:A:MET:HG2	2	0.33
(1,3400)	1:126:A:ILE:HG23	1:142:A:MET:HG2	4	0.33
(1,3400)	1:126:A:ILE:HG23	1:142:A:MET:HG2	14	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3395)	1:134:A:GLU:HG3	1:157:A:LYS:HG3	14	0.33
(1,3391)	1:11:A:GLU:HB3	1:12:A:ASP:HB2	9	0.33
(1,3370)	1:174:A:LEU:HD22	1:171:A:ILE:HA	2	0.33
(1,3346)	1:69:A:LYS:HD2	1:97:A:ILE:HD12	16	0.33
(1,3346)	1:69:A:LYS:HD2	1:97:A:ILE:HD12	20	0.33
(1,3325)	1:112:A:SER:HA	1:53:A:MET:HE3	11	0.33
(1,3321)	1:60:A:MET:HE1	1:60:A:MET:HA	18	0.33
(1,3283)	1:88:A:GLU:HG2	1:78:A:PHE:H	1	0.33
(1,3283)	1:88:A:GLU:HG2	1:78:A:PHE:H	10	0.33
(1,3283)	1:88:A:GLU:HG2	1:78:A:PHE:H	17	0.33
(1,3283)	1:88:A:GLU:HG2	1:78:A:PHE:H	20	0.33
(1,3278)	1:76:A:SER:H	1:77:A:VAL:HG23	14	0.33
(1,3278)	1:76:A:SER:H	1:77:A:VAL:HG21	20	0.33
(1,3264)	1:20:A:VAL:HG22	1:27:A:VAL:HA	12	0.33
(1,3248)	1:2:A:MET:HG3	1:2:A:MET:HB2	8	0.33
(1,3244)	1:94:A:LEU:HD13	1:92:A:VAL:H	16	0.33
(1,3236)	1:98:A:LEU:HD23	1:139:A:LEU:HB2	7	0.33
(1,3230)	1:86:A:LEU:HD21	1:153:A:HIS:HD2	3	0.33
(1,3230)	1:86:A:LEU:HD23	1:153:A:HIS:HD2	9	0.33
(1,3230)	1:86:A:LEU:HD23	1:153:A:HIS:HD2	11	0.33
(1,3222)	1:77:A:VAL:HG22	1:78:A:PHE:H	13	0.33
(1,3207)	1:166:A:ILE:HG23	1:167:A:ILE:H	1	0.33
(1,3172)	1:101:A:LEU:HD22	1:110:A:PHE:HE1	3	0.33
(1,3156)	1:142:A:MET:HE3	1:142:A:MET:HA	1	0.33
(1,3152)	1:97:A:ILE:HD12	1:65:A:ASP:HB3	8	0.33
(1,3149)	1:47:A:THR:HG22	1:63:A:LYS:HE2	5	0.33
(1,3116)	1:87:A:LYS:HE3	1:113:A:LEU:HD22	2	0.33
(1,3116)	1:87:A:LYS:HE3	1:113:A:LEU:HD23	11	0.33
(1,3116)	1:87:A:LYS:HE3	1:113:A:LEU:HD22	16	0.33
(1,3092)	1:157:A:LYS:HA	1:157:A:LYS:HE2	5	0.33
(1,3052)	1:55:A:MET:HE2	1:61:A:PHE:HZ	9	0.33
(1,3052)	1:55:A:MET:HE2	1:61:A:PHE:HZ	17	0.33
(1,3051)	1:55:A:MET:HE2	1:59:A:GLN:HE22	14	0.33
(1,3021)	1:140:A:ILE:HD11	1:138:A:PHE:HE2	11	0.33
(1,2988)	1:43:A:ILE:HD13	1:40:A:LEU:HA	18	0.33
(1,2983)	1:36:A:LYS:HD3	1:36:A:LYS:HA	3	0.33
(1,2983)	1:36:A:LYS:HD3	1:36:A:LYS:HA	18	0.33
(1,2942)	1:110:A:PHE:HB2	1:53:A:MET:HE2	1	0.33
(1,2903)	1:169:A:ASP:H	1:165:A:GLN:HG2	5	0.33
(1,2903)	1:169:A:ASP:H	1:165:A:GLN:HG2	7	0.33
(1,2902)	1:46:A:LYS:HB2	1:108:A:TYR:HE2	4	0.33
(1,2902)	1:46:A:LYS:HB2	1:108:A:TYR:HE2	5	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2902)	1:46:A:LYS:HB2	1:108:A:TYR:HE2	8	0.33
(1,2902)	1:46:A:LYS:HB2	1:108:A:TYR:HE2	9	0.33
(1,2902)	1:46:A:LYS:HB2	1:108:A:TYR:HE2	18	0.33
(1,2899)	1:142:A:MET:HB3	1:126:A:ILE:HG12	6	0.33
(1,2873)	1:170:A:THR:HB	1:167:A:ILE:HG23	4	0.33
(1,2873)	1:170:A:THR:HB	1:167:A:ILE:HG21	9	0.33
(1,2851)	1:38:A:VAL:HG12	1:38:A:VAL:HA	11	0.33
(1,2851)	1:38:A:VAL:HG12	1:38:A:VAL:HA	17	0.33
(1,2844)	1:95:A:THR:HA	1:72:A:VAL:HG12	10	0.33
(1,2813)	1:157:A:LYS:HA	1:134:A:GLU:HG3	12	0.33
(1,2774)	1:77:A:VAL:HA	1:89:A:VAL:HG22	10	0.33
(1,2768)	1:159:A:GLU:HG2	1:159:A:GLU:HA	13	0.33
(1,2757)	1:163:A:TRP:HA	1:163:A:TRP:HZ2	5	0.33
(1,2721)	1:61:A:PHE:HA	1:61:A:PHE:HE2	2	0.33
(1,2721)	1:61:A:PHE:HA	1:61:A:PHE:HE2	17	0.33
(1,2720)	1:41:A:ASN:HA	1:44:A:TYR:HE1	1	0.33
(1,2715)	1:4:A:LYS:HA	1:8:A:VAL:HG11	13	0.33
(1,2713)	1:66:A:LEU:HD21	1:66:A:LEU:HA	5	0.33
(1,2713)	1:66:A:LEU:HD23	1:66:A:LEU:HA	17	0.33
(1,2677)	1:144:A:MET:HG2	1:144:A:MET:HA	4	0.33
(1,2567)	1:146:A:ASP:HA	1:147:A:PRO:HG2	11	0.33
(1,2564)	1:26:A:ALA:HB1	1:26:A:ALA:HA	1	0.33
(1,2564)	1:26:A:ALA:HB3	1:26:A:ALA:HA	4	0.33
(1,2564)	1:26:A:ALA:HB3	1:26:A:ALA:HA	5	0.33
(1,2564)	1:26:A:ALA:HB1	1:26:A:ALA:HA	10	0.33
(1,2564)	1:26:A:ALA:HB1	1:26:A:ALA:HA	15	0.33
(1,2564)	1:26:A:ALA:HB1	1:26:A:ALA:HA	18	0.33
(1,2564)	1:26:A:ALA:HB3	1:26:A:ALA:HA	19	0.33
(1,2541)	1:136:A:GLY:HA2	1:130:A:VAL:HB	13	0.33
(1,2510)	1:73:A:ARG:HD3	1:73:A:ARG:HA	18	0.33
(1,2508)	1:73:A:ARG:HD2	1:166:A:ILE:HG12	10	0.33
(1,2493)	1:128:A:ARG:HB2	1:128:A:ARG:HD3	17	0.33
(1,2490)	1:39:A:ARG:HD2	1:38:A:VAL:HG13	18	0.33
(1,2440)	1:28:A:ASP:HB3	1:25:A:GLY:HA3	18	0.33
(1,2407)	1:38:A:VAL:HG12	1:41:A:ASN:HB3	5	0.33
(1,2394)	1:159:A:GLU:HG2	1:155:A:SER:HB2	15	0.33
(1,2391)	1:151:A:GLU:HG3	1:80:A:LYS:HB3	8	0.33
(1,2383)	1:35:A:GLU:HG3	1:38:A:VAL:HG11	8	0.33
(1,2378)	1:35:A:GLU:HG3	1:35:A:GLU:HA	11	0.33
(1,2359)	1:134:A:GLU:HG3	1:157:A:LYS:HB3	5	0.33
(1,2304)	1:123:A:LYS:HB3	1:123:A:LYS:HE2	1	0.33
(1,2299)	1:102:A:GLN:HB3	1:89:A:VAL:HG13	2	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2299)	1:102:A:GLN:HB3	1:89:A:VAL:HG11	3	0.33
(1,2299)	1:102:A:GLN:HB3	1:89:A:VAL:HG13	5	0.33
(1,2299)	1:102:A:GLN:HB3	1:89:A:VAL:HG12	20	0.33
(1,2278)	1:123:A:LYS:HB2	1:174:A:LEU:HD22	2	0.33
(1,2278)	1:123:A:LYS:HB2	1:174:A:LEU:HD23	3	0.33
(1,2278)	1:123:A:LYS:HB2	1:174:A:LEU:HD22	4	0.33
(1,2278)	1:123:A:LYS:HB2	1:174:A:LEU:HD23	11	0.33
(1,2189)	1:171:A:ILE:HG22	1:123:A:LYS:HD3	1	0.33
(1,2189)	1:171:A:ILE:HG21	1:123:A:LYS:HD3	5	0.33
(1,2172)	1:46:A:LYS:HD3	1:46:A:LYS:HB2	7	0.33
(1,2172)	1:46:A:LYS:HD3	1:46:A:LYS:HB2	11	0.33
(1,2099)	1:66:A:LEU:HG	1:97:A:ILE:HG13	11	0.33
(1,2075)	1:98:A:LEU:HD12	1:100:A:PHE:HZ	17	0.33
(1,2050)	1:79:A:LEU:HD22	1:113:A:LEU:HD12	12	0.33
(1,2012)	1:63:A:LYS:HG3	1:44:A:TYR:HE1	3	0.33
(1,1994)	1:174:A:LEU:HD12	1:171:A:ILE:HB	11	0.33
(1,1935)	1:56:A:LYS:HG2	1:121:A:SER:HB2	4	0.33
(1,1906)	1:86:A:LEU:HD12	1:78:A:PHE:HE2	2	0.33
(1,1903)	1:86:A:LEU:HD12	1:78:A:PHE:HA	13	0.33
(1,1903)	1:86:A:LEU:HD13	1:78:A:PHE:HA	17	0.33
(1,1886)	1:174:A:LEU:HD23	1:174:A:LEU:HD12	4	0.33
(1,1884)	1:174:A:LEU:HD22	1:12:A:ASP:HB2	9	0.33
(1,1865)	1:95:A:THR:HG23	1:170:A:THR:HA	6	0.33
(1,1865)	1:95:A:THR:HG22	1:170:A:THR:HA	9	0.33
(1,1855)	1:62:A:ALA:HB2	1:63:A:LYS:HB3	1	0.33
(1,1855)	1:62:A:ALA:HB2	1:63:A:LYS:HB3	12	0.33
(1,1855)	1:62:A:ALA:HB2	1:63:A:LYS:HB3	18	0.33
(1,1815)	1:173:A:THR:HG23	1:176:A:ARG:HB2	9	0.33
(1,1787)	1:101:A:LEU:HD21	1:66:A:LEU:HD13	20	0.33
(1,1742)	1:119:A:VAL:HG12	1:110:A:PHE:HE1	3	0.33
(1,1741)	1:119:A:VAL:HG13	1:110:A:PHE:HD1	13	0.33
(1,1720)	1:154:A:ALA:HB1	1:77:A:VAL:HG13	3	0.33
(1,1720)	1:154:A:ALA:HB1	1:77:A:VAL:HG11	10	0.33
(1,1692)	1:111:A:ALA:HB3	1:102:A:GLN:HG3	7	0.33
(1,1687)	1:111:A:ALA:HB1	1:89:A:VAL:HG22	13	0.33
(1,1684)	1:32:A:ALA:HB2	1:32:A:ALA:HA	4	0.33
(1,1684)	1:32:A:ALA:HB3	1:32:A:ALA:HA	14	0.33
(1,1684)	1:32:A:ALA:HB3	1:32:A:ALA:HA	17	0.33
(1,1684)	1:32:A:ALA:HB1	1:32:A:ALA:HA	20	0.33
(1,1672)	1:109:A:ILE:HG21	1:104:A:LYS:HB2	10	0.33
(1,1672)	1:109:A:ILE:HG22	1:104:A:LYS:HB2	11	0.33
(1,1649)	1:167:A:ILE:HG21	1:127:A:VAL:HB	8	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1644)	1:52:A:ILE:HG22	1:60:A:MET:HG2	20	0.33
(1,1641)	1:82:A:ALA:HB2	1:82:A:ALA:HA	1	0.33
(1,1641)	1:82:A:ALA:HB1	1:82:A:ALA:HA	2	0.33
(1,1641)	1:82:A:ALA:HB3	1:82:A:ALA:HA	3	0.33
(1,1641)	1:82:A:ALA:HB2	1:82:A:ALA:HA	5	0.33
(1,1641)	1:82:A:ALA:HB2	1:82:A:ALA:HA	6	0.33
(1,1641)	1:82:A:ALA:HB2	1:82:A:ALA:HA	10	0.33
(1,1641)	1:82:A:ALA:HB1	1:82:A:ALA:HA	14	0.33
(1,1641)	1:82:A:ALA:HB1	1:82:A:ALA:HA	18	0.33
(1,1641)	1:82:A:ALA:HB1	1:82:A:ALA:HA	20	0.33
(1,1630)	1:24:A:ILE:HG23	1:24:A:ILE:HB	2	0.33
(1,1630)	1:24:A:ILE:HG23	1:24:A:ILE:HB	11	0.33
(1,1630)	1:24:A:ILE:HG23	1:24:A:ILE:HB	17	0.33
(1,1620)	1:182:A:ILE:HG21	1:181:A:GLY:HA2	4	0.33
(1,1620)	1:182:A:ILE:HG22	1:181:A:GLY:HA2	17	0.33
(1,1610)	1:60:A:MET:HE2	1:60:A:MET:HG3	11	0.33
(1,1603)	1:149:A:MET:HE2	1:149:A:MET:HA	9	0.33
(1,1603)	1:149:A:MET:HE2	1:149:A:MET:HA	17	0.33
(1,1593)	1:55:A:MET:HE2	1:121:A:SER:HB3	12	0.33
(1,1539)	1:140:A:ILE:HD13	1:149:A:MET:HB2	9	0.33
(1,1528)	1:52:A:ILE:HD11	1:52:A:ILE:HG12	8	0.33
(1,1528)	1:52:A:ILE:HD13	1:52:A:ILE:HG12	10	0.33
(1,1528)	1:52:A:ILE:HD12	1:52:A:ILE:HG12	20	0.33
(1,1525)	1:166:A:ILE:HD12	1:169:A:ASP:HB3	7	0.33
(1,1518)	1:109:A:ILE:HD13	1:102:A:GLN:HB2	19	0.33
(1,1504)	1:163:A:TRP:HE1	1:75:A:GLY:HA2	10	0.33
(1,1463)	1:85:A:ARG:H	1:85:A:ARG:HG3	5	0.33
(1,1463)	1:85:A:ARG:H	1:85:A:ARG:HG3	17	0.33
(1,1367)	1:135:A:LYS:H	1:135:A:LYS:HG2	19	0.33
(1,1342)	1:100:A:PHE:H	1:98:A:LEU:HD22	12	0.33
(1,1311)	1:63:A:LYS:H	1:63:A:LYS:HD2	1	0.33
(1,1295)	1:118:A:THR:H	1:117:A:SER:HB3	12	0.33
(1,1289)	1:93:A:LEU:H	1:98:A:LEU:HD21	3	0.33
(1,1284)	1:44:A:TYR:H	1:44:A:TYR:HD1	2	0.33
(1,1284)	1:44:A:TYR:H	1:44:A:TYR:HD2	7	0.33
(1,1284)	1:44:A:TYR:H	1:44:A:TYR:HD1	11	0.33
(1,1268)	1:153:A:HIS:H	1:152:A:VAL:HG12	6	0.33
(1,1268)	1:153:A:HIS:H	1:152:A:VAL:HG13	9	0.33
(1,1268)	1:153:A:HIS:H	1:152:A:VAL:HG13	14	0.33
(1,1241)	1:96:A:ASP:H	1:95:A:THR:HG22	6	0.33
(1,1241)	1:96:A:ASP:H	1:95:A:THR:HG21	15	0.33
(1,1216)	1:118:A:THR:H	1:117:A:SER:HB2	3	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1216)	1:118:A:THR:H	1:117:A:SER:HB2	16	0.33
(1,1167)	1:78:A:PHE:H	1:77:A:VAL:HG11	2	0.33
(1,1167)	1:78:A:PHE:H	1:77:A:VAL:HG11	15	0.33
(1,1088)	1:166:A:ILE:H	1:166:A:ILE:HD11	10	0.33
(1,1080)	1:123:A:LYS:H	1:174:A:LEU:HD12	8	0.33
(1,1060)	1:172:A:ASN:H	1:171:A:ILE:HG23	16	0.33
(1,1052)	1:164:A:ILE:H	1:164:A:ILE:HD12	14	0.33
(1,1011)	1:47:A:THR:H	1:46:A:LYS:HD2	15	0.33
(1,992)	1:27:A:VAL:H	1:26:A:ALA:HB3	14	0.33
(1,942)	1:178:A:GLU:H	1:177:A:ASP:HB3	17	0.33
(1,938)	1:102:A:GLN:H	1:101:A:LEU:HB2	13	0.33
(1,938)	1:102:A:GLN:H	1:101:A:LEU:HB2	20	0.33
(1,931)	1:121:A:SER:H	1:120:A:ILE:HG23	9	0.33
(1,925)	1:177:A:ASP:H	1:176:A:ARG:HG2	11	0.33
(1,912)	1:50:A:LYS:H	1:50:A:LYS:HB3	20	0.33
(1,878)	1:43:A:ILE:H	1:43:A:ILE:HD12	1	0.33
(1,878)	1:43:A:ILE:H	1:43:A:ILE:HD12	4	0.33
(1,878)	1:43:A:ILE:H	1:43:A:ILE:HD11	9	0.33
(1,878)	1:43:A:ILE:H	1:43:A:ILE:HD13	10	0.33
(1,852)	1:159:A:GLU:H	1:154:A:ALA:HB3	3	0.33
(1,842)	1:110:A:PHE:H	1:109:A:ILE:HD13	17	0.33
(1,828)	1:86:A:LEU:H	1:86:A:LEU:HD13	18	0.33
(1,823)	1:86:A:LEU:H	1:85:A:ARG:HB2	9	0.33
(1,716)	1:141:A:SER:H	1:126:A:ILE:HD13	7	0.33
(1,716)	1:141:A:SER:H	1:126:A:ILE:HD11	9	0.33
(1,712)	1:74:A:ASP:H	1:71:A:LEU:HD12	7	0.33
(1,699)	1:137:A:LEU:H	1:137:A:LEU:HD12	14	0.33
(1,676)	1:111:A:ALA:H	1:101:A:LEU:HD21	7	0.33
(1,676)	1:111:A:ALA:H	1:101:A:LEU:HD22	14	0.33
(1,676)	1:111:A:ALA:H	1:101:A:LEU:HD22	16	0.33
(1,658)	1:122:A:LEU:H	1:97:A:ILE:HB	9	0.33
(1,652)	1:171:A:ILE:H	1:171:A:ILE:HG22	2	0.33
(1,652)	1:171:A:ILE:H	1:171:A:ILE:HG23	17	0.33
(1,652)	1:171:A:ILE:H	1:171:A:ILE:HG23	19	0.33
(1,611)	1:81:A:ASN:H	1:86:A:LEU:HD22	3	0.33
(1,611)	1:81:A:ASN:H	1:86:A:LEU:HD23	10	0.33
(1,611)	1:81:A:ASN:H	1:86:A:LEU:HD21	11	0.33
(1,584)	1:185:A:GLU:H	1:184:A:SER:HA	15	0.33
(1,564)	1:104:A:LYS:H	1:103:A:GLU:HG3	10	0.33
(1,516)	1:153:A:HIS:HD2	1:133:A:GLU:HB2	2	0.33
(1,507)	1:153:A:HIS:HE1	1:132:A:HIS:HD2	1	0.33
(1,505)	1:37:A:LYS:HE3	1:34:A:TYR:HD2	3	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,489)	1:70:A:LYS:HB3	1:36:A:LYS:HE2	14	0.33
(1,481)	1:149:A:MET:HG3	1:138:A:PHE:HZ	4	0.33
(1,481)	1:149:A:MET:HG3	1:138:A:PHE:HZ	9	0.33
(1,481)	1:149:A:MET:HG3	1:138:A:PHE:HZ	16	0.33
(1,477)	1:50:A:LYS:HD2	1:50:A:LYS:HE2	11	0.33
(1,477)	1:50:A:LYS:HD2	1:50:A:LYS:HE2	14	0.33
(1,477)	1:50:A:LYS:HD2	1:50:A:LYS:HE2	16	0.33
(1,461)	1:98:A:LEU:HD23	1:93:A:LEU:HB2	1	0.33
(1,461)	1:98:A:LEU:HD21	1:93:A:LEU:HB2	19	0.33
(1,458)	1:15:A:GLN:HB3	1:4:A:LYS:HE3	10	0.33
(1,457)	1:92:A:VAL:H	1:98:A:LEU:HD21	3	0.33
(1,457)	1:92:A:VAL:H	1:98:A:LEU:HD22	18	0.33
(1,449)	1:31:A:VAL:HG11	1:30:A:LYS:HD3	10	0.33
(1,449)	1:31:A:VAL:HG11	1:30:A:LYS:HD3	19	0.33
(1,404)	1:56:A:LYS:HA	1:144:A:MET:HE1	15	0.33
(1,396)	1:21:A:LYS:HA	1:21:A:LYS:HG2	7	0.33
(1,396)	1:21:A:LYS:HA	1:21:A:LYS:HG2	11	0.33
(1,391)	1:64:A:GLU:HG3	1:44:A:TYR:HE2	10	0.33
(1,367)	1:121:A:SER:HB2	1:185:A:GLU:HA	4	0.33
(1,365)	1:76:A:SER:HB3	1:78:A:PHE:HD1	1	0.33
(1,365)	1:76:A:SER:HB3	1:78:A:PHE:HD1	6	0.33
(1,363)	1:37:A:LYS:HA	1:37:A:LYS:HE3	1	0.33
(1,363)	1:37:A:LYS:HA	1:37:A:LYS:HE3	19	0.33
(1,349)	1:8:A:VAL:HG23	1:8:A:VAL:HA	3	0.33
(1,349)	1:8:A:VAL:HA	1:8:A:VAL:HG11	15	0.33
(1,347)	1:162:A:SER:HB3	1:166:A:ILE:HD13	13	0.33
(1,327)	1:104:A:LYS:HB3	1:104:A:LYS:HA	3	0.33
(1,327)	1:104:A:LYS:HB3	1:104:A:LYS:HA	4	0.33
(1,327)	1:104:A:LYS:HB3	1:104:A:LYS:HA	7	0.33
(1,327)	1:104:A:LYS:HB3	1:104:A:LYS:HA	9	0.33
(1,327)	1:104:A:LYS:HB3	1:104:A:LYS:HA	10	0.33
(1,319)	1:22:A:ASP:HA	1:23:A:VAL:HG12	17	0.33
(1,310)	1:14:A:ALA:HA	1:21:A:LYS:HD3	16	0.33
(1,302)	1:25:A:GLY:HA2	1:28:A:ASP:HB3	6	0.33
(1,302)	1:25:A:GLY:HA2	1:28:A:ASP:HB3	9	0.33
(1,302)	1:25:A:GLY:HA2	1:28:A:ASP:HB3	10	0.33
(1,302)	1:25:A:GLY:HA2	1:28:A:ASP:HB3	15	0.33
(1,302)	1:25:A:GLY:HA2	1:28:A:ASP:HB3	16	0.33
(1,295)	1:50:A:LYS:HE3	1:50:A:LYS:HA	11	0.33
(1,295)	1:50:A:LYS:HE3	1:50:A:LYS:HA	16	0.33
(1,293)	1:67:A:LYS:HE3	1:64:A:GLU:HA	9	0.33
(1,290)	1:83:A:ALA:HB1	1:85:A:ARG:HD3	16	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,289)	1:85:A:ARG:HG3	1:85:A:ARG:HD2	4	0.33
(1,279)	1:157:A:LYS:HG2	1:157:A:LYS:HE2	16	0.33
(1,279)	1:157:A:LYS:HG2	1:157:A:LYS:HE2	17	0.33
(1,277)	1:157:A:LYS:HE3	1:134:A:GLU:HB3	13	0.33
(1,257)	1:103:A:GLU:HG2	1:106:A:GLN:HA	3	0.33
(1,217)	1:37:A:LYS:HD3	1:37:A:LYS:HA	4	0.33
(1,217)	1:37:A:LYS:HD3	1:37:A:LYS:HA	10	0.33
(1,217)	1:37:A:LYS:HD3	1:37:A:LYS:HA	12	0.33
(1,199)	1:56:A:LYS:HD3	1:56:A:LYS:HB3	16	0.33
(1,197)	1:68:A:ARG:HG2	1:67:A:LYS:HE2	2	0.33
(1,161)	1:71:A:LEU:HD13	1:93:A:LEU:H	4	0.33
(1,144)	1:30:A:LYS:HG3	1:30:A:LYS:HD2	1	0.33
(1,144)	1:30:A:LYS:HG3	1:30:A:LYS:HD2	20	0.33
(1,139)	1:19:A:LEU:HD11	1:19:A:LEU:HG	7	0.33
(1,133)	1:86:A:LEU:HD13	1:153:A:HIS:HB2	12	0.33
(1,133)	1:86:A:LEU:HD13	1:153:A:HIS:HB2	17	0.33
(1,120)	1:122:A:LEU:HD23	1:122:A:LEU:HB3	6	0.33
(1,65)	1:15:A:GLN:H	1:15:A:GLN:HG2	15	0.33
(1,61)	1:79:A:LEU:H	1:87:A:LYS:HB2	4	0.33
(1,61)	1:79:A:LEU:H	1:87:A:LYS:HB2	6	0.33
(1,61)	1:79:A:LEU:H	1:87:A:LYS:HB2	13	0.33
(1,46)	1:175:A:ASN:H	1:174:A:LEU:HG	7	0.33
(1,46)	1:175:A:ASN:H	1:174:A:LEU:HG	19	0.33
(1,39)	1:170:A:THR:H	1:93:A:LEU:HD21	14	0.33
(1,37)	1:169:A:ASP:H	1:167:A:ILE:HD12	16	0.33
(1,33)	1:107:A:LYS:H	1:106:A:GLN:HG3	19	0.33
(1,32)	1:139:A:LEU:H	1:138:A:PHE:HD1	16	0.33
(1,32)	1:139:A:LEU:H	1:138:A:PHE:HD1	19	0.33
(1,30)	1:139:A:LEU:H	1:139:A:LEU:HD23	20	0.33
(1,29)	1:8:A:VAL:H	1:8:A:VAL:HG23	18	0.33
(1,29)	1:8:A:VAL:H	1:8:A:VAL:HG21	20	0.33
(1,15)	1:128:A:ARG:H	1:126:A:ILE:HD11	19	0.33
(2,21)	1:161:A:ASN:H	1:158:A:GLU:O	8	0.32
(2,21)	1:161:A:ASN:H	1:158:A:GLU:O	20	0.32
(2,13)	1:101:A:LEU:H	1:90:A:GLN:O	1	0.32
(2,11)	1:97:A:ILE:H	1:94:A:LEU:O	14	0.32
(1,3531)	1:153:A:HIS:HA	1:153:A:HIS:HD2	18	0.32
(1,3405)	1:66:A:LEU:HB2	1:40:A:LEU:HD22	1	0.32
(1,3400)	1:126:A:ILE:HG23	1:142:A:MET:HG2	12	0.32
(1,3400)	1:126:A:ILE:HG23	1:142:A:MET:HG2	20	0.32
(1,3391)	1:11:A:GLU:HB3	1:12:A:ASP:HB2	4	0.32
(1,3371)	1:67:A:LYS:HD2	1:67:A:LYS:HB3	8	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3371)	1:67:A:LYS:HD2	1:67:A:LYS:HB3	15	0.32
(1,3370)	1:174:A:LEU:HD21	1:171:A:ILE:HA	5	0.32
(1,3369)	1:174:A:LEU:HD23	1:95:A:THR:HG23	6	0.32
(1,3346)	1:69:A:LYS:HD2	1:97:A:ILE:HD13	13	0.32
(1,3321)	1:60:A:MET:HE3	1:60:A:MET:HA	5	0.32
(1,3321)	1:60:A:MET:HE3	1:60:A:MET:HA	7	0.32
(1,3321)	1:60:A:MET:HE1	1:60:A:MET:HA	15	0.32
(1,3321)	1:60:A:MET:HE3	1:60:A:MET:HA	16	0.32
(1,3316)	1:46:A:LYS:HE2	1:46:A:LYS:HB3	19	0.32
(1,3313)	1:109:A:ILE:HD13	1:104:A:LYS:HA	1	0.32
(1,3283)	1:88:A:GLU:HG2	1:78:A:PHE:H	9	0.32
(1,3283)	1:88:A:GLU:HG2	1:78:A:PHE:H	19	0.32
(1,3278)	1:76:A:SER:H	1:77:A:VAL:HG23	17	0.32
(1,3277)	1:111:A:ALA:HB1	1:100:A:PHE:HD2	16	0.32
(1,3276)	1:111:A:ALA:HB1	1:109:A:ILE:H	2	0.32
(1,3272)	1:98:A:LEU:H	1:97:A:ILE:HG21	16	0.32
(1,3264)	1:20:A:VAL:HG21	1:27:A:VAL:HA	18	0.32
(1,3238)	1:91:A:ALA:HA	1:98:A:LEU:HD21	3	0.32
(1,3238)	1:91:A:ALA:HA	1:98:A:LEU:HD21	13	0.32
(1,3236)	1:98:A:LEU:HD21	1:139:A:LEU:HB2	2	0.32
(1,3236)	1:98:A:LEU:HD21	1:139:A:LEU:HB2	16	0.32
(1,3224)	1:79:A:LEU:H	1:79:A:LEU:HD22	11	0.32
(1,3202)	1:152:A:VAL:HG21	1:137:A:LEU:HG	13	0.32
(1,3185)	1:142:A:MET:HA	1:147:A:PRO:HB2	20	0.32
(1,3159)	1:149:A:MET:HB3	1:140:A:ILE:HD11	16	0.32
(1,3127)	1:38:A:VAL:HG11	1:35:A:GLU:HG2	11	0.32
(1,3127)	1:38:A:VAL:HG12	1:35:A:GLU:HG2	13	0.32
(1,3094)	1:66:A:LEU:HB3	1:61:A:PHE:HE1	14	0.32
(1,3052)	1:55:A:MET:HE2	1:61:A:PHE:HZ	16	0.32
(1,3046)	1:54:A:ARG:HA	1:59:A:GLN:HG2	1	0.32
(1,3046)	1:54:A:ARG:HA	1:59:A:GLN:HG2	10	0.32
(1,2994)	1:11:A:GLU:HG2	1:11:A:GLU:HA	1	0.32
(1,2983)	1:36:A:LYS:HD3	1:36:A:LYS:HA	2	0.32
(1,2983)	1:36:A:LYS:HD3	1:36:A:LYS:HA	4	0.32
(1,2983)	1:36:A:LYS:HD3	1:36:A:LYS:HA	11	0.32
(1,2983)	1:36:A:LYS:HD3	1:36:A:LYS:HA	15	0.32
(1,2902)	1:46:A:LYS:HB2	1:108:A:TYR:HE2	12	0.32
(1,2902)	1:46:A:LYS:HB2	1:108:A:TYR:HE2	13	0.32
(1,2902)	1:46:A:LYS:HB2	1:108:A:TYR:HE2	20	0.32
(1,2812)	1:56:A:LYS:HA	1:56:A:LYS:HE2	20	0.32
(1,2774)	1:77:A:VAL:HA	1:89:A:VAL:HG22	14	0.32
(1,2758)	1:44:A:TYR:HA	1:44:A:TYR:HE2	16	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2757)	1:163:A:TRP:HA	1:163:A:TRP:HZ2	1	0.32
(1,2757)	1:163:A:TRP:HA	1:163:A:TRP:HZ2	17	0.32
(1,2721)	1:61:A:PHE:HA	1:61:A:PHE:HE2	18	0.32
(1,2705)	1:135:A:LYS:HA	1:154:A:ALA:HB2	9	0.32
(1,2677)	1:144:A:MET:HG2	1:144:A:MET:HA	7	0.32
(1,2661)	1:101:A:LEU:HD11	1:108:A:TYR:HA	10	0.32
(1,2657)	1:108:A:TYR:HA	1:109:A:ILE:HD11	7	0.32
(1,2605)	1:133:A:GLU:HA	1:130:A:VAL:HG13	18	0.32
(1,2589)	1:113:A:LEU:HA	1:118:A:THR:HG22	2	0.32
(1,2494)	1:126:A:ILE:HD13	1:128:A:ARG:HD3	19	0.32
(1,2493)	1:128:A:ARG:HB2	1:128:A:ARG:HD3	13	0.32
(1,2493)	1:128:A:ARG:HB2	1:128:A:ARG:HD3	14	0.32
(1,2490)	1:39:A:ARG:HD2	1:38:A:VAL:HG13	16	0.32
(1,2441)	1:146:A:ASP:HB2	1:147:A:PRO:HD3	15	0.32
(1,2419)	1:106:A:GLN:HG3	1:105:A:ASP:HB3	19	0.32
(1,2409)	1:41:A:ASN:HB2	1:38:A:VAL:HG22	17	0.32
(1,2383)	1:35:A:GLU:HG3	1:38:A:VAL:HG11	16	0.32
(1,2360)	1:129:A:GLU:HG2	1:129:A:GLU:HB2	3	0.32
(1,2360)	1:129:A:GLU:HG2	1:129:A:GLU:HB2	8	0.32
(1,2360)	1:129:A:GLU:HG2	1:129:A:GLU:HB2	9	0.32
(1,2360)	1:129:A:GLU:HG2	1:129:A:GLU:HB2	11	0.32
(1,2360)	1:129:A:GLU:HG2	1:129:A:GLU:HB2	12	0.32
(1,2360)	1:129:A:GLU:HG2	1:129:A:GLU:HB2	15	0.32
(1,2356)	1:128:A:ARG:HB3	1:130:A:VAL:H	11	0.32
(1,2317)	1:67:A:LYS:HB3	1:44:A:TYR:HE2	8	0.32
(1,2253)	1:176:A:ARG:HB3	1:173:A:THR:HG22	12	0.32
(1,2226)	1:11:A:GLU:HB3	1:177:A:ASP:HB3	13	0.32
(1,2222)	1:154:A:ALA:HB2	1:159:A:GLU:HB2	13	0.32
(1,2222)	1:154:A:ALA:HB2	1:159:A:GLU:HB2	17	0.32
(1,2161)	1:67:A:LYS:HD3	1:67:A:LYS:HB3	3	0.32
(1,2157)	1:135:A:LYS:HD3	1:135:A:LYS:HB3	10	0.32
(1,2075)	1:98:A:LEU:HD12	1:100:A:PHE:HZ	9	0.32
(1,2022)	1:93:A:LEU:HD12	1:72:A:VAL:H	6	0.32
(1,1994)	1:174:A:LEU:HD13	1:171:A:ILE:HB	18	0.32
(1,1958)	1:66:A:LEU:HD11	1:44:A:TYR:HB2	13	0.32
(1,1932)	1:94:A:LEU:HD22	1:94:A:LEU:HA	10	0.32
(1,1923)	1:67:A:LYS:HG2	1:44:A:TYR:HD2	16	0.32
(1,1921)	1:67:A:LYS:HG2	1:44:A:TYR:HE1	12	0.32
(1,1903)	1:86:A:LEU:HD11	1:78:A:PHE:HA	6	0.32
(1,1903)	1:86:A:LEU:HD13	1:78:A:PHE:HA	14	0.32
(1,1891)	1:174:A:LEU:HD22	1:123:A:LYS:HE2	2	0.32
(1,1891)	1:174:A:LEU:HD23	1:123:A:LYS:HE2	9	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1891)	1:174:A:LEU:HD23	1:123:A:LYS:HE2	19	0.32
(1,1886)	1:174:A:LEU:HD22	1:174:A:LEU:HD12	5	0.32
(1,1860)	1:62:A:ALA:HB2	1:110:A:PHE:HE2	7	0.32
(1,1860)	1:62:A:ALA:HB2	1:110:A:PHE:HE2	18	0.32
(1,1855)	1:62:A:ALA:HB1	1:63:A:LYS:HB3	9	0.32
(1,1855)	1:62:A:ALA:HB1	1:63:A:LYS:HB3	19	0.32
(1,1792)	1:122:A:LEU:HD13	1:122:A:LEU:HA	2	0.32
(1,1787)	1:101:A:LEU:HD22	1:66:A:LEU:HD13	13	0.32
(1,1767)	1:86:A:LEU:HD21	1:86:A:LEU:HB2	13	0.32
(1,1763)	1:99:A:VAL:HG12	1:101:A:LEU:HG	20	0.32
(1,1752)	1:89:A:VAL:HG11	1:79:A:LEU:HD13	7	0.32
(1,1752)	1:89:A:VAL:HG12	1:79:A:LEU:HD11	16	0.32
(1,1745)	1:77:A:VAL:HG13	1:163:A:TRP:HD1	18	0.32
(1,1741)	1:119:A:VAL:HG13	1:110:A:PHE:HD1	18	0.32
(1,1727)	1:31:A:VAL:HG11	1:31:A:VAL:HB	20	0.32
(1,1698)	1:91:A:ALA:HB2	1:98:A:LEU:HD21	7	0.32
(1,1684)	1:32:A:ALA:HB1	1:32:A:ALA:HA	2	0.32
(1,1684)	1:32:A:ALA:HB1	1:32:A:ALA:HA	18	0.32
(1,1649)	1:167:A:ILE:HG21	1:127:A:VAL:HB	18	0.32
(1,1641)	1:82:A:ALA:HB1	1:82:A:ALA:HA	8	0.32
(1,1641)	1:82:A:ALA:HB2	1:82:A:ALA:HA	11	0.32
(1,1641)	1:82:A:ALA:HB1	1:82:A:ALA:HA	13	0.32
(1,1641)	1:82:A:ALA:HB2	1:82:A:ALA:HA	15	0.32
(1,1641)	1:82:A:ALA:HB2	1:82:A:ALA:HA	17	0.32
(1,1641)	1:82:A:ALA:HB2	1:82:A:ALA:HA	19	0.32
(1,1610)	1:60:A:MET:HE1	1:60:A:MET:HG3	8	0.32
(1,1603)	1:149:A:MET:HE2	1:149:A:MET:HA	3	0.32
(1,1603)	1:149:A:MET:HE3	1:149:A:MET:HA	7	0.32
(1,1594)	1:55:A:MET:HE1	1:120:A:ILE:HA	20	0.32
(1,1580)	1:164:A:ILE:HG22	1:127:A:VAL:HB	4	0.32
(1,1580)	1:164:A:ILE:HG23	1:127:A:VAL:HB	16	0.32
(1,1580)	1:164:A:ILE:HG23	1:127:A:VAL:HB	18	0.32
(1,1580)	1:164:A:ILE:HG21	1:127:A:VAL:HB	19	0.32
(1,1580)	1:164:A:ILE:HG21	1:127:A:VAL:HB	20	0.32
(1,1560)	1:97:A:ILE:HD11	1:69:A:LYS:HE3	10	0.32
(1,1560)	1:97:A:ILE:HD13	1:69:A:LYS:HE3	13	0.32
(1,1539)	1:140:A:ILE:HD11	1:149:A:MET:HB2	11	0.32
(1,1539)	1:140:A:ILE:HD12	1:149:A:MET:HB2	12	0.32
(1,1533)	1:52:A:ILE:HD11	1:52:A:ILE:HA	20	0.32
(1,1528)	1:52:A:ILE:HD11	1:52:A:ILE:HG12	4	0.32
(1,1528)	1:52:A:ILE:HD11	1:52:A:ILE:HG12	6	0.32
(1,1525)	1:166:A:ILE:HD12	1:169:A:ASP:HB3	2	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1457)	1:107:A:LYS:H	1:104:A:LYS:HB2	12	0.32
(1,1416)	1:79:A:LEU:H	1:89:A:VAL:HG22	7	0.32
(1,1416)	1:79:A:LEU:H	1:89:A:VAL:HG22	14	0.32
(1,1416)	1:79:A:LEU:H	1:89:A:VAL:HG21	19	0.32
(1,1410)	1:172:A:ASN:HD22	1:168:A:GLN:HG3	7	0.32
(1,1354)	1:15:A:GLN:H	1:15:A:GLN:HB2	3	0.32
(1,1318)	1:4:A:LYS:H	1:6:A:ASN:HD22	6	0.32
(1,1307)	1:63:A:LYS:H	1:47:A:THR:HG21	4	0.32
(1,1284)	1:44:A:TYR:H	1:44:A:TYR:HD1	3	0.32
(1,1268)	1:153:A:HIS:H	1:152:A:VAL:HG12	20	0.32
(1,1251)	1:84:A:GLY:H	1:83:A:ALA:HB3	9	0.32
(1,1199)	1:67:A:LYS:H	1:67:A:LYS:HB3	4	0.32
(1,1199)	1:67:A:LYS:H	1:67:A:LYS:HB3	10	0.32
(1,1167)	1:78:A:PHE:H	1:77:A:VAL:HG12	4	0.32
(1,1088)	1:166:A:ILE:H	1:166:A:ILE:HD11	13	0.32
(1,1052)	1:164:A:ILE:H	1:164:A:ILE:HD13	3	0.32
(1,1052)	1:164:A:ILE:H	1:164:A:ILE:HD13	9	0.32
(1,1052)	1:164:A:ILE:H	1:164:A:ILE:HD11	16	0.32
(1,942)	1:178:A:GLU:H	1:177:A:ASP:HB3	3	0.32
(1,942)	1:178:A:GLU:H	1:177:A:ASP:HB3	5	0.32
(1,938)	1:102:A:GLN:H	1:101:A:LEU:HB2	7	0.32
(1,938)	1:102:A:GLN:H	1:101:A:LEU:HB2	15	0.32
(1,878)	1:43:A:ILE:H	1:43:A:ILE:HD12	19	0.32
(1,842)	1:110:A:PHE:H	1:109:A:ILE:HD12	4	0.32
(1,828)	1:86:A:LEU:H	1:86:A:LEU:HD12	3	0.32
(1,828)	1:86:A:LEU:H	1:86:A:LEU:HD12	11	0.32
(1,827)	1:86:A:LEU:H	1:86:A:LEU:HD22	9	0.32
(1,827)	1:86:A:LEU:H	1:86:A:LEU:HD21	15	0.32
(1,827)	1:86:A:LEU:H	1:86:A:LEU:HD21	20	0.32
(1,823)	1:86:A:LEU:H	1:85:A:ARG:HB2	5	0.32
(1,823)	1:86:A:LEU:H	1:85:A:ARG:HB2	14	0.32
(1,761)	1:174:A:LEU:H	1:174:A:LEU:HD11	1	0.32
(1,761)	1:174:A:LEU:H	1:174:A:LEU:HD12	15	0.32
(1,716)	1:141:A:SER:H	1:126:A:ILE:HD12	6	0.32
(1,700)	1:137:A:LEU:H	1:137:A:LEU:HD23	1	0.32
(1,699)	1:137:A:LEU:H	1:137:A:LEU:HD13	20	0.32
(1,676)	1:111:A:ALA:H	1:101:A:LEU:HD23	8	0.32
(1,676)	1:111:A:ALA:H	1:101:A:LEU:HD23	13	0.32
(1,676)	1:111:A:ALA:H	1:101:A:LEU:HD22	20	0.32
(1,658)	1:122:A:LEU:H	1:97:A:ILE:HB	13	0.32
(1,658)	1:122:A:LEU:H	1:97:A:ILE:HB	14	0.32
(1,652)	1:171:A:ILE:H	1:171:A:ILE:HG21	3	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,652)	1:171:A:ILE:H	1:171:A:ILE:HG21	8	0.32
(1,652)	1:171:A:ILE:H	1:171:A:ILE:HG22	9	0.32
(1,652)	1:171:A:ILE:H	1:171:A:ILE:HG23	10	0.32
(1,652)	1:171:A:ILE:H	1:171:A:ILE:HG21	11	0.32
(1,652)	1:171:A:ILE:H	1:171:A:ILE:HG21	13	0.32
(1,652)	1:171:A:ILE:H	1:171:A:ILE:HG22	14	0.32
(1,611)	1:81:A:ASN:H	1:86:A:LEU:HD23	6	0.32
(1,558)	1:93:A:LEU:H	1:91:A:ALA:HB2	15	0.32
(1,549)	1:61:A:PHE:H	1:52:A:ILE:HG21	6	0.32
(1,516)	1:153:A:HIS:HD2	1:133:A:GLU:HB2	14	0.32
(1,505)	1:37:A:LYS:HE2	1:34:A:TYR:HD2	4	0.32
(1,489)	1:70:A:LYS:HB3	1:36:A:LYS:HE2	9	0.32
(1,477)	1:50:A:LYS:HD2	1:50:A:LYS:HE2	17	0.32
(1,457)	1:92:A:VAL:H	1:98:A:LEU:HD21	5	0.32
(1,457)	1:92:A:VAL:H	1:98:A:LEU:HD22	12	0.32
(1,449)	1:31:A:VAL:HG11	1:30:A:LYS:HD3	4	0.32
(1,449)	1:31:A:VAL:HG12	1:30:A:LYS:HD3	17	0.32
(1,416)	1:18:A:SER:HA	1:24:A:ILE:HD13	5	0.32
(1,390)	1:170:A:THR:HA	1:171:A:ILE:HD12	19	0.32
(1,371)	1:19:A:LEU:HB2	1:18:A:SER:HB2	16	0.32
(1,367)	1:121:A:SER:HB2	1:185:A:GLU:HA	9	0.32
(1,363)	1:37:A:LYS:HA	1:37:A:LYS:HE3	9	0.32
(1,353)	1:67:A:LYS:HE3	1:67:A:LYS:HA	4	0.32
(1,351)	1:56:A:LYS:HG2	1:56:A:LYS:HA	19	0.32
(1,349)	1:8:A:VAL:HA	1:8:A:VAL:HG11	9	0.32
(1,349)	1:8:A:VAL:HG22	1:8:A:VAL:HA	20	0.32
(1,338)	1:157:A:LYS:HA	1:157:A:LYS:HB3	4	0.32
(1,338)	1:157:A:LYS:HA	1:157:A:LYS:HB3	10	0.32
(1,337)	1:184:A:SER:HA	1:185:A:GLU:HB3	5	0.32
(1,327)	1:104:A:LYS:HB3	1:104:A:LYS:HA	15	0.32
(1,302)	1:25:A:GLY:HA2	1:28:A:ASP:HB3	7	0.32
(1,302)	1:25:A:GLY:HA2	1:28:A:ASP:HB3	18	0.32
(1,299)	1:85:A:ARG:HD2	1:84:A:GLY:HA2	3	0.32
(1,299)	1:85:A:ARG:HD2	1:84:A:GLY:HA2	11	0.32
(1,299)	1:85:A:ARG:HD2	1:84:A:GLY:HA2	13	0.32
(1,295)	1:50:A:LYS:HE3	1:50:A:LYS:HA	17	0.32
(1,291)	1:54:A:ARG:HD2	1:54:A:ARG:HB2	16	0.32
(1,289)	1:85:A:ARG:HG3	1:85:A:ARG:HD2	15	0.32
(1,285)	1:69:A:LYS:HE2	1:97:A:ILE:HB	18	0.32
(1,279)	1:157:A:LYS:HG2	1:157:A:LYS:HE2	8	0.32
(1,273)	1:50:A:LYS:HG3	1:50:A:LYS:HE3	18	0.32
(1,269)	1:5:A:ASP:HB2	1:8:A:VAL:HG23	1	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,246)	1:87:A:LYS:HB2	1:79:A:LEU:HD21	5	0.32
(1,242)	1:4:A:LYS:HB3	1:4:A:LYS:HE2	8	0.32
(1,217)	1:37:A:LYS:HD3	1:37:A:LYS:HA	6	0.32
(1,217)	1:37:A:LYS:HD3	1:37:A:LYS:HA	11	0.32
(1,171)	1:107:A:LYS:HG3	1:47:A:THR:HA	3	0.32
(1,171)	1:107:A:LYS:HG3	1:47:A:THR:HA	14	0.32
(1,161)	1:71:A:LEU:HD12	1:93:A:LEU:H	3	0.32
(1,144)	1:30:A:LYS:HG3	1:30:A:LYS:HD2	10	0.32
(1,139)	1:19:A:LEU:HD12	1:19:A:LEU:HG	14	0.32
(1,120)	1:122:A:LEU:HD22	1:122:A:LEU:HB3	5	0.32
(1,120)	1:122:A:LEU:HD22	1:122:A:LEU:HB3	12	0.32
(1,120)	1:122:A:LEU:HD21	1:122:A:LEU:HB3	16	0.32
(1,110)	1:119:A:VAL:HG22	1:55:A:MET:HG2	3	0.32
(1,109)	1:97:A:ILE:HD13	1:119:A:VAL:HG21	4	0.32
(1,89)	1:127:A:VAL:H	1:127:A:VAL:HG23	10	0.32
(1,61)	1:79:A:LEU:H	1:87:A:LYS:HB2	17	0.32
(1,37)	1:169:A:ASP:H	1:167:A:ILE:HD11	7	0.32
(1,32)	1:139:A:LEU:H	1:138:A:PHE:HD1	3	0.32
(1,32)	1:139:A:LEU:H	1:138:A:PHE:HD1	15	0.32
(1,31)	1:139:A:LEU:H	1:149:A:MET:HG3	5	0.32
(1,30)	1:139:A:LEU:H	1:139:A:LEU:HD22	1	0.32
(2,21)	1:161:A:ASN:H	1:158:A:GLU:O	19	0.31
(1,3512)	1:101:A:LEU:HD11	1:108:A:TYR:HE2	9	0.31
(1,3407)	1:55:A:MET:HE2	1:119:A:VAL:HA	2	0.31
(1,3407)	1:55:A:MET:HE1	1:119:A:VAL:HA	7	0.31
(1,3400)	1:126:A:ILE:HG23	1:142:A:MET:HG2	10	0.31
(1,3400)	1:126:A:ILE:HG21	1:142:A:MET:HG2	18	0.31
(1,3391)	1:11:A:GLU:HB3	1:12:A:ASP:HB2	8	0.31
(1,3383)	1:42:A:GLU:HG3	1:38:A:VAL:HG22	6	0.31
(1,3370)	1:174:A:LEU:HD21	1:171:A:ILE:HA	16	0.31
(1,3346)	1:69:A:LYS:HD2	1:97:A:ILE:HD12	1	0.31
(1,3321)	1:60:A:MET:HE2	1:60:A:MET:HA	6	0.31
(1,3283)	1:88:A:GLU:HG2	1:78:A:PHE:H	16	0.31
(1,3278)	1:76:A:SER:H	1:77:A:VAL:HG23	13	0.31
(1,3276)	1:111:A:ALA:HB3	1:109:A:ILE:H	13	0.31
(1,3276)	1:111:A:ALA:HB3	1:109:A:ILE:H	18	0.31
(1,3264)	1:20:A:VAL:HG22	1:27:A:VAL:HA	1	0.31
(1,3264)	1:20:A:VAL:HG21	1:27:A:VAL:HA	10	0.31
(1,3244)	1:94:A:LEU:HD11	1:92:A:VAL:H	12	0.31
(1,3236)	1:98:A:LEU:HD22	1:139:A:LEU:HB2	9	0.31
(1,3236)	1:98:A:LEU:HD21	1:139:A:LEU:HB2	17	0.31
(1,3222)	1:77:A:VAL:HG23	1:78:A:PHE:H	2	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3222)	1:77:A:VAL:HG22	1:78:A:PHE:H	17	0.31
(1,3207)	1:166:A:ILE:HG22	1:167:A:ILE:H	8	0.31
(1,3207)	1:166:A:ILE:HG23	1:167:A:ILE:H	13	0.31
(1,3183)	1:144:A:MET:HA	1:145:A:THR:HG21	19	0.31
(1,3172)	1:101:A:LEU:HD22	1:110:A:PHE:HE1	6	0.31
(1,3103)	1:73:A:ARG:HD2	1:166:A:ILE:HG23	11	0.31
(1,3092)	1:157:A:LYS:HA	1:157:A:LYS:HE2	19	0.31
(1,3092)	1:157:A:LYS:HA	1:157:A:LYS:HE2	20	0.31
(1,3053)	1:55:A:MET:HE1	1:119:A:VAL:H	11	0.31
(1,3053)	1:55:A:MET:HE2	1:119:A:VAL:H	13	0.31
(1,3053)	1:55:A:MET:HE3	1:119:A:VAL:H	16	0.31
(1,3052)	1:55:A:MET:HE2	1:61:A:PHE:HZ	1	0.31
(1,3052)	1:55:A:MET:HE1	1:61:A:PHE:HZ	2	0.31
(1,2975)	1:102:A:GLN:HG2	1:109:A:ILE:HD13	20	0.31
(1,2955)	1:145:A:THR:HG21	1:146:A:ASP:HB3	16	0.31
(1,2903)	1:169:A:ASP:H	1:165:A:GLN:HG2	1	0.31
(1,2900)	1:142:A:MET:HB2	1:126:A:ILE:HG12	18	0.31
(1,2873)	1:170:A:THR:HB	1:167:A:ILE:HG22	6	0.31
(1,2873)	1:170:A:THR:HB	1:167:A:ILE:HG22	16	0.31
(1,2873)	1:170:A:THR:HB	1:167:A:ILE:HG23	18	0.31
(1,2873)	1:170:A:THR:HB	1:167:A:ILE:HG21	19	0.31
(1,2844)	1:95:A:THR:HA	1:72:A:VAL:HG12	3	0.31
(1,2843)	1:31:A:VAL:HA	1:34:A:TYR:HE1	18	0.31
(1,2793)	1:120:A:ILE:HD13	1:118:A:THR:HA	14	0.31
(1,2783)	1:117:A:SER:HA	1:55:A:MET:HB3	16	0.31
(1,2774)	1:77:A:VAL:HA	1:89:A:VAL:HG22	1	0.31
(1,2774)	1:77:A:VAL:HA	1:89:A:VAL:HG21	11	0.31
(1,2774)	1:77:A:VAL:HA	1:89:A:VAL:HG23	18	0.31
(1,2774)	1:77:A:VAL:HA	1:89:A:VAL:HG21	19	0.31
(1,2757)	1:163:A:TRP:HA	1:163:A:TRP:HZ2	2	0.31
(1,2757)	1:163:A:TRP:HA	1:163:A:TRP:HZ2	3	0.31
(1,2757)	1:163:A:TRP:HA	1:163:A:TRP:HZ2	7	0.31
(1,2757)	1:163:A:TRP:HA	1:163:A:TRP:HZ2	8	0.31
(1,2757)	1:163:A:TRP:HA	1:163:A:TRP:HZ2	10	0.31
(1,2757)	1:163:A:TRP:HA	1:163:A:TRP:HZ2	16	0.31
(1,2757)	1:163:A:TRP:HA	1:163:A:TRP:HZ2	19	0.31
(1,2721)	1:61:A:PHE:HA	1:61:A:PHE:HE2	5	0.31
(1,2661)	1:101:A:LEU:HD13	1:108:A:TYR:HA	17	0.31
(1,2631)	1:80:A:LYS:HA	1:86:A:LEU:HD11	18	0.31
(1,2589)	1:113:A:LEU:HA	1:118:A:THR:HG23	5	0.31
(1,2567)	1:146:A:ASP:HA	1:147:A:PRO:HG2	12	0.31
(1,2523)	1:66:A:LEU:HB3	1:40:A:LEU:HD11	1	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2494)	1:126:A:ILE:HD11	1:128:A:ARG:HD3	8	0.31
(1,2493)	1:128:A:ARG:HB2	1:128:A:ARG:HD3	1	0.31
(1,2493)	1:128:A:ARG:HB2	1:128:A:ARG:HD3	7	0.31
(1,2493)	1:128:A:ARG:HB2	1:128:A:ARG:HD3	8	0.31
(1,2473)	1:80:A:LYS:HE2	1:86:A:LEU:HD22	1	0.31
(1,2473)	1:80:A:LYS:HE2	1:86:A:LEU:HD22	6	0.31
(1,2469)	1:22:A:ASP:HB2	1:24:A:ILE:HG12	2	0.31
(1,2442)	1:146:A:ASP:HB3	1:147:A:PRO:HD3	7	0.31
(1,2442)	1:146:A:ASP:HB3	1:147:A:PRO:HD3	12	0.31
(1,2407)	1:38:A:VAL:HG12	1:41:A:ASN:HB3	11	0.31
(1,2394)	1:159:A:GLU:HG2	1:155:A:SER:HB2	13	0.31
(1,2383)	1:35:A:GLU:HG3	1:38:A:VAL:HG12	7	0.31
(1,2360)	1:129:A:GLU:HG2	1:129:A:GLU:HB2	5	0.31
(1,2360)	1:129:A:GLU:HG2	1:129:A:GLU:HB2	6	0.31
(1,2360)	1:129:A:GLU:HG2	1:129:A:GLU:HB2	10	0.31
(1,2360)	1:129:A:GLU:HG2	1:129:A:GLU:HB2	13	0.31
(1,2360)	1:129:A:GLU:HG2	1:129:A:GLU:HB2	20	0.31
(1,2359)	1:134:A:GLU:HG3	1:157:A:LYS:HB3	10	0.31
(1,2359)	1:134:A:GLU:HG3	1:157:A:LYS:HB3	15	0.31
(1,2359)	1:134:A:GLU:HG3	1:157:A:LYS:HB3	17	0.31
(1,2353)	1:133:A:GLU:HG3	1:130:A:VAL:HG11	11	0.31
(1,2327)	1:4:A:LYS:HB2	1:8:A:VAL:HG12	20	0.31
(1,2279)	1:123:A:LYS:HB2	1:174:A:LEU:HD13	4	0.31
(1,2278)	1:123:A:LYS:HB2	1:174:A:LEU:HD22	13	0.31
(1,2278)	1:123:A:LYS:HB2	1:174:A:LEU:HD21	20	0.31
(1,2222)	1:154:A:ALA:HB1	1:159:A:GLU:HB2	1	0.31
(1,2222)	1:154:A:ALA:HB2	1:159:A:GLU:HB2	7	0.31
(1,2222)	1:154:A:ALA:HB1	1:159:A:GLU:HB2	16	0.31
(1,2222)	1:154:A:ALA:HB2	1:159:A:GLU:HB2	19	0.31
(1,2189)	1:171:A:ILE:HG22	1:123:A:LYS:HD3	15	0.31
(1,2141)	1:56:A:LYS:HD3	1:144:A:MET:HE2	3	0.31
(1,2119)	1:137:A:LEU:HD11	1:163:A:TRP:HB3	4	0.31
(1,2075)	1:98:A:LEU:HD11	1:100:A:PHE:HZ	2	0.31
(1,2075)	1:98:A:LEU:HD12	1:100:A:PHE:HZ	7	0.31
(1,2049)	1:113:A:LEU:HD12	1:113:A:LEU:HA	14	0.31
(1,2017)	1:167:A:ILE:HG23	1:93:A:LEU:HD12	2	0.31
(1,1994)	1:174:A:LEU:HD13	1:171:A:ILE:HB	10	0.31
(1,1959)	1:66:A:LEU:HD12	1:66:A:LEU:HA	20	0.31
(1,1958)	1:66:A:LEU:HD12	1:44:A:TYR:HB2	2	0.31
(1,1958)	1:66:A:LEU:HD11	1:44:A:TYR:HB2	20	0.31
(1,1925)	1:139:A:LEU:HD23	1:137:A:LEU:HG	8	0.31
(1,1906)	1:86:A:LEU:HD12	1:78:A:PHE:HE2	3	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1903)	1:86:A:LEU:HD11	1:78:A:PHE:HA	11	0.31
(1,1891)	1:174:A:LEU:HD22	1:123:A:LYS:HE2	12	0.31
(1,1891)	1:174:A:LEU:HD22	1:123:A:LYS:HE2	13	0.31
(1,1884)	1:174:A:LEU:HD21	1:12:A:ASP:HB2	6	0.31
(1,1865)	1:95:A:THR:HG21	1:170:A:THR:HA	4	0.31
(1,1865)	1:95:A:THR:HG21	1:170:A:THR:HA	13	0.31
(1,1855)	1:62:A:ALA:HB2	1:63:A:LYS:HB3	2	0.31
(1,1855)	1:62:A:ALA:HB2	1:63:A:LYS:HB3	4	0.31
(1,1855)	1:62:A:ALA:HB3	1:63:A:LYS:HB3	6	0.31
(1,1855)	1:62:A:ALA:HB3	1:63:A:LYS:HB3	15	0.31
(1,1855)	1:62:A:ALA:HB1	1:63:A:LYS:HB3	20	0.31
(1,1825)	1:45:A:THR:HG22	1:46:A:LYS:HA	8	0.31
(1,1811)	1:38:A:VAL:HG12	1:38:A:VAL:HG22	7	0.31
(1,1811)	1:38:A:VAL:HG12	1:38:A:VAL:HG22	18	0.31
(1,1799)	1:127:A:VAL:HG12	1:137:A:LEU:HD21	6	0.31
(1,1787)	1:101:A:LEU:HD22	1:66:A:LEU:HD12	3	0.31
(1,1767)	1:86:A:LEU:HD21	1:86:A:LEU:HB2	19	0.31
(1,1763)	1:99:A:VAL:HG13	1:101:A:LEU:HG	7	0.31
(1,1752)	1:89:A:VAL:HG12	1:79:A:LEU:HD11	6	0.31
(1,1752)	1:89:A:VAL:HG12	1:79:A:LEU:HD11	15	0.31
(1,1752)	1:89:A:VAL:HG11	1:79:A:LEU:HD13	17	0.31
(1,1727)	1:31:A:VAL:HG12	1:31:A:VAL:HB	2	0.31
(1,1727)	1:31:A:VAL:HG13	1:31:A:VAL:HB	6	0.31
(1,1727)	1:31:A:VAL:HG12	1:31:A:VAL:HB	11	0.31
(1,1727)	1:31:A:VAL:HG13	1:31:A:VAL:HB	14	0.31
(1,1720)	1:154:A:ALA:HB3	1:77:A:VAL:HG13	14	0.31
(1,1710)	1:89:A:VAL:HG23	1:79:A:LEU:HG	5	0.31
(1,1692)	1:111:A:ALA:HB2	1:102:A:GLN:HG3	19	0.31
(1,1690)	1:111:A:ALA:HB2	1:102:A:GLN:HB3	6	0.31
(1,1690)	1:111:A:ALA:HB1	1:102:A:GLN:HB3	8	0.31
(1,1687)	1:111:A:ALA:HB3	1:89:A:VAL:HG23	14	0.31
(1,1684)	1:32:A:ALA:HB3	1:32:A:ALA:HA	1	0.31
(1,1641)	1:82:A:ALA:HB2	1:82:A:ALA:HA	7	0.31
(1,1604)	1:149:A:MET:HE3	1:138:A:PHE:HA	2	0.31
(1,1603)	1:149:A:MET:HE2	1:149:A:MET:HA	2	0.31
(1,1603)	1:149:A:MET:HE1	1:149:A:MET:HA	19	0.31
(1,1602)	1:149:A:MET:HE3	1:138:A:PHE:HD2	2	0.31
(1,1600)	1:149:A:MET:HE3	1:138:A:PHE:HB2	11	0.31
(1,1593)	1:55:A:MET:HE2	1:121:A:SER:HB3	7	0.31
(1,1580)	1:164:A:ILE:HG23	1:127:A:VAL:HB	12	0.31
(1,1580)	1:164:A:ILE:HG21	1:127:A:VAL:HB	17	0.31
(1,1575)	1:164:A:ILE:HD12	1:161:A:ASN:HB3	14	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1570)	1:171:A:ILE:HD11	1:122:A:LEU:HB3	6	0.31
(1,1560)	1:97:A:ILE:HD11	1:69:A:LYS:HE3	19	0.31
(1,1539)	1:140:A:ILE:HD11	1:149:A:MET:HB2	2	0.31
(1,1528)	1:52:A:ILE:HD12	1:52:A:ILE:HG12	1	0.31
(1,1528)	1:52:A:ILE:HD13	1:52:A:ILE:HG12	2	0.31
(1,1528)	1:52:A:ILE:HD11	1:52:A:ILE:HG12	3	0.31
(1,1528)	1:52:A:ILE:HD11	1:52:A:ILE:HG12	5	0.31
(1,1528)	1:52:A:ILE:HD13	1:52:A:ILE:HG12	7	0.31
(1,1528)	1:52:A:ILE:HD13	1:52:A:ILE:HG12	11	0.31
(1,1528)	1:52:A:ILE:HD13	1:52:A:ILE:HG12	12	0.31
(1,1528)	1:52:A:ILE:HD11	1:52:A:ILE:HG12	15	0.31
(1,1528)	1:52:A:ILE:HD13	1:52:A:ILE:HG12	17	0.31
(1,1528)	1:52:A:ILE:HD12	1:52:A:ILE:HG12	19	0.31
(1,1457)	1:107:A:LYS:H	1:104:A:LYS:HB2	20	0.31
(1,1400)	1:69:A:LYS:H	1:68:A:ARG:HB3	16	0.31
(1,1359)	1:69:A:LYS:H	1:40:A:LEU:HD11	1	0.31
(1,1350)	1:51:A:SER:H	1:109:A:ILE:HG22	3	0.31
(1,1350)	1:51:A:SER:H	1:109:A:ILE:HG22	8	0.31
(1,1350)	1:51:A:SER:H	1:109:A:ILE:HG23	9	0.31
(1,1350)	1:51:A:SER:H	1:109:A:ILE:HG21	13	0.31
(1,1350)	1:51:A:SER:H	1:109:A:ILE:HG21	18	0.31
(1,1342)	1:100:A:PHE:H	1:98:A:LEU:HD22	8	0.31
(1,1311)	1:63:A:LYS:H	1:63:A:LYS:HD2	8	0.31
(1,1307)	1:63:A:LYS:H	1:47:A:THR:HG22	5	0.31
(1,1307)	1:63:A:LYS:H	1:47:A:THR:HG22	14	0.31
(1,1307)	1:63:A:LYS:H	1:47:A:THR:HG23	15	0.31
(1,1289)	1:93:A:LEU:H	1:98:A:LEU:HD22	19	0.31
(1,1274)	1:163:A:TRP:HE1	1:77:A:VAL:HG12	20	0.31
(1,1268)	1:153:A:HIS:H	1:152:A:VAL:HG13	1	0.31
(1,1268)	1:153:A:HIS:H	1:152:A:VAL:HG11	3	0.31
(1,1268)	1:153:A:HIS:H	1:152:A:VAL:HG13	5	0.31
(1,1199)	1:67:A:LYS:H	1:67:A:LYS:HB3	15	0.31
(1,1167)	1:78:A:PHE:H	1:77:A:VAL:HG12	12	0.31
(1,1167)	1:78:A:PHE:H	1:77:A:VAL:HG12	18	0.31
(1,1088)	1:166:A:ILE:H	1:166:A:ILE:HD13	1	0.31
(1,1052)	1:164:A:ILE:H	1:164:A:ILE:HD12	2	0.31
(1,1052)	1:164:A:ILE:H	1:164:A:ILE:HD12	5	0.31
(1,1052)	1:164:A:ILE:H	1:164:A:ILE:HD11	10	0.31
(1,1052)	1:164:A:ILE:H	1:164:A:ILE:HD12	15	0.31
(1,992)	1:27:A:VAL:H	1:26:A:ALA:HB1	2	0.31
(1,992)	1:27:A:VAL:H	1:26:A:ALA:HB3	3	0.31
(1,992)	1:27:A:VAL:H	1:26:A:ALA:HB1	5	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,992)	1:27:A:VAL:H	1:26:A:ALA:HB1	12	0.31
(1,878)	1:43:A:ILE:H	1:43:A:ILE:HD12	17	0.31
(1,716)	1:141:A:SER:H	1:126:A:ILE:HD12	10	0.31
(1,716)	1:141:A:SER:H	1:126:A:ILE:HD11	15	0.31
(1,700)	1:137:A:LEU:H	1:137:A:LEU:HD22	3	0.31
(1,699)	1:137:A:LEU:H	1:137:A:LEU:HD13	13	0.31
(1,699)	1:137:A:LEU:H	1:137:A:LEU:HD12	16	0.31
(1,676)	1:111:A:ALA:H	1:101:A:LEU:HD23	9	0.31
(1,676)	1:111:A:ALA:H	1:101:A:LEU:HD21	10	0.31
(1,676)	1:111:A:ALA:H	1:101:A:LEU:HD22	12	0.31
(1,658)	1:122:A:LEU:H	1:97:A:ILE:HB	1	0.31
(1,658)	1:122:A:LEU:H	1:97:A:ILE:HB	17	0.31
(1,652)	1:171:A:ILE:H	1:171:A:ILE:HG22	12	0.31
(1,652)	1:171:A:ILE:H	1:171:A:ILE:HG23	15	0.31
(1,564)	1:104:A:LYS:H	1:103:A:GLU:HG3	3	0.31
(1,564)	1:104:A:LYS:H	1:103:A:GLU:HG3	12	0.31
(1,548)	1:61:A:PHE:H	1:60:A:MET:HB2	1	0.31
(1,548)	1:61:A:PHE:H	1:60:A:MET:HB2	3	0.31
(1,548)	1:61:A:PHE:H	1:60:A:MET:HB2	15	0.31
(1,548)	1:61:A:PHE:H	1:60:A:MET:HB2	16	0.31
(1,548)	1:61:A:PHE:H	1:60:A:MET:HB2	19	0.31
(1,515)	1:37:A:LYS:HD2	1:34:A:TYR:HE1	14	0.31
(1,506)	1:35:A:GLU:HA	1:34:A:TYR:HD2	2	0.31
(1,493)	1:87:A:LYS:HG2	1:87:A:LYS:HD3	8	0.31
(1,493)	1:87:A:LYS:HG2	1:87:A:LYS:HD3	17	0.31
(1,481)	1:149:A:MET:HG3	1:138:A:PHE:HZ	6	0.31
(1,477)	1:50:A:LYS:HD2	1:50:A:LYS:HE2	6	0.31
(1,449)	1:31:A:VAL:HG13	1:30:A:LYS:HD3	6	0.31
(1,449)	1:31:A:VAL:HG11	1:30:A:LYS:HD3	18	0.31
(1,446)	1:22:A:ASP:HA	1:21:A:LYS:HG3	5	0.31
(1,431)	1:67:A:LYS:HE3	1:44:A:TYR:HE1	9	0.31
(1,431)	1:67:A:LYS:HE3	1:44:A:TYR:HE1	11	0.31
(1,402)	1:176:A:ARG:HB2	1:176:A:ARG:HA	5	0.31
(1,390)	1:170:A:THR:HA	1:171:A:ILE:HD13	6	0.31
(1,390)	1:170:A:THR:HA	1:171:A:ILE:HD11	18	0.31
(1,363)	1:37:A:LYS:HA	1:37:A:LYS:HE3	20	0.31
(1,357)	1:34:A:TYR:HA	1:30:A:LYS:HE3	2	0.31
(1,349)	1:8:A:VAL:HG23	1:8:A:VAL:HA	11	0.31
(1,345)	1:159:A:GLU:HG2	1:162:A:SER:HB2	13	0.31
(1,339)	1:157:A:LYS:HA	1:134:A:GLU:HB2	2	0.31
(1,338)	1:157:A:LYS:HA	1:157:A:LYS:HB3	8	0.31
(1,338)	1:157:A:LYS:HA	1:157:A:LYS:HB3	17	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,327)	1:104:A:LYS:HA	1:104:A:LYS:HD3	17	0.31
(1,291)	1:54:A:ARG:HD2	1:54:A:ARG:HB2	11	0.31
(1,290)	1:83:A:ALA:HB2	1:85:A:ARG:HD3	13	0.31
(1,290)	1:83:A:ALA:HB2	1:85:A:ARG:HD3	17	0.31
(1,257)	1:103:A:GLU:HG2	1:106:A:GLN:HA	11	0.31
(1,257)	1:103:A:GLU:HG2	1:106:A:GLN:HA	20	0.31
(1,246)	1:87:A:LYS:HB2	1:79:A:LEU:HD22	8	0.31
(1,229)	1:30:A:LYS:HB3	1:27:A:VAL:HG21	14	0.31
(1,217)	1:37:A:LYS:HD3	1:37:A:LYS:HA	3	0.31
(1,217)	1:37:A:LYS:HD3	1:37:A:LYS:HA	8	0.31
(1,199)	1:56:A:LYS:HD3	1:56:A:LYS:HB3	14	0.31
(1,168)	1:107:A:LYS:HG2	1:106:A:GLN:HG3	16	0.31
(1,168)	1:107:A:LYS:HG2	1:106:A:GLN:HG3	17	0.31
(1,161)	1:71:A:LEU:HD13	1:93:A:LEU:H	7	0.31
(1,144)	1:30:A:LYS:HG3	1:30:A:LYS:HD2	2	0.31
(1,144)	1:30:A:LYS:HG3	1:30:A:LYS:HD2	3	0.31
(1,144)	1:30:A:LYS:HG3	1:30:A:LYS:HD2	6	0.31
(1,144)	1:30:A:LYS:HG3	1:30:A:LYS:HD2	8	0.31
(1,144)	1:30:A:LYS:HG3	1:30:A:LYS:HD2	9	0.31
(1,144)	1:30:A:LYS:HG3	1:30:A:LYS:HD2	13	0.31
(1,144)	1:30:A:LYS:HG3	1:30:A:LYS:HD2	17	0.31
(1,144)	1:30:A:LYS:HG3	1:30:A:LYS:HD2	19	0.31
(1,140)	1:70:A:LYS:HG3	1:70:A:LYS:HD2	20	0.31
(1,120)	1:122:A:LEU:HD22	1:122:A:LEU:HB3	19	0.31
(1,109)	1:97:A:ILE:HD11	1:119:A:VAL:HG22	13	0.31
(1,85)	1:142:A:MET:H	1:141:A:SER:HB2	15	0.31
(1,78)	1:107:A:LYS:H	1:103:A:GLU:HG2	15	0.31
(1,78)	1:107:A:LYS:H	1:103:A:GLU:HG2	17	0.31
(1,61)	1:79:A:LEU:H	1:87:A:LYS:HB2	15	0.31
(1,61)	1:79:A:LEU:H	1:87:A:LYS:HB2	19	0.31
(1,46)	1:175:A:ASN:H	1:174:A:LEU:HG	16	0.31
(1,37)	1:169:A:ASP:H	1:167:A:ILE:HD13	18	0.31
(1,32)	1:139:A:LEU:H	1:138:A:PHE:HD1	7	0.31
(1,32)	1:139:A:LEU:H	1:138:A:PHE:HD1	20	0.31
(1,31)	1:139:A:LEU:H	1:149:A:MET:HG3	11	0.31
(1,31)	1:139:A:LEU:H	1:149:A:MET:HG3	15	0.31
(1,31)	1:139:A:LEU:H	1:149:A:MET:HG3	18	0.31
(1,20)	1:11:A:GLU:H	1:178:A:GLU:H	6	0.31
(1,20)	1:11:A:GLU:H	1:178:A:GLU:H	16	0.31
(1,3)	1:185:A:GLU:H	1:185:A:GLU:HG2	15	0.31
(2,24)	1:167:A:ILE:H	1:163:A:TRP:O	16	0.3
(2,21)	1:161:A:ASN:H	1:158:A:GLU:O	18	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,13)	1:101:A:LEU:H	1:90:A:GLN:O	2	0.3
(2,13)	1:101:A:LEU:H	1:90:A:GLN:O	7	0.3
(2,13)	1:101:A:LEU:H	1:90:A:GLN:O	8	0.3
(2,13)	1:101:A:LEU:H	1:90:A:GLN:O	9	0.3
(1,3514)	1:35:A:GLU:HA	1:34:A:TYR:HE1	10	0.3
(1,3514)	1:35:A:GLU:HA	1:34:A:TYR:HE2	19	0.3
(1,3450)	1:61:A:PHE:HD2	1:55:A:MET:HG2	10	0.3
(1,3397)	1:45:A:THR:HG23	1:42:A:GLU:HG3	17	0.3
(1,3391)	1:11:A:GLU:HB3	1:12:A:ASP:HB2	16	0.3
(1,3383)	1:42:A:GLU:HG3	1:38:A:VAL:HG23	20	0.3
(1,3371)	1:67:A:LYS:HD2	1:67:A:LYS:HB3	10	0.3
(1,3321)	1:60:A:MET:HE1	1:60:A:MET:HA	1	0.3
(1,3321)	1:60:A:MET:HE2	1:60:A:MET:HA	3	0.3
(1,3321)	1:60:A:MET:HE3	1:60:A:MET:HA	10	0.3
(1,3321)	1:60:A:MET:HE1	1:60:A:MET:HA	14	0.3
(1,3321)	1:60:A:MET:HE2	1:60:A:MET:HA	19	0.3
(1,3301)	1:154:A:ALA:HB2	1:163:A:TRP:HD1	15	0.3
(1,3294)	1:65:A:ASP:HA	1:61:A:PHE:HE2	18	0.3
(1,3283)	1:88:A:GLU:HG2	1:78:A:PHE:H	15	0.3
(1,3276)	1:111:A:ALA:HB3	1:109:A:ILE:H	4	0.3
(1,3276)	1:111:A:ALA:HB3	1:109:A:ILE:H	5	0.3
(1,3276)	1:111:A:ALA:HB3	1:109:A:ILE:H	10	0.3
(1,3276)	1:111:A:ALA:HB2	1:109:A:ILE:H	14	0.3
(1,3276)	1:111:A:ALA:HB1	1:109:A:ILE:H	19	0.3
(1,3276)	1:111:A:ALA:HB3	1:109:A:ILE:H	20	0.3
(1,3272)	1:98:A:LEU:H	1:97:A:ILE:HG21	17	0.3
(1,3264)	1:20:A:VAL:HG21	1:27:A:VAL:HA	19	0.3
(1,3263)	1:149:A:MET:HE3	1:142:A:MET:HE2	16	0.3
(1,3238)	1:91:A:ALA:HA	1:98:A:LEU:HD22	18	0.3
(1,3230)	1:86:A:LEU:HD23	1:153:A:HIS:HD2	5	0.3
(1,3229)	1:86:A:LEU:HD21	1:153:A:HIS:HE1	3	0.3
(1,3229)	1:86:A:LEU:HD23	1:153:A:HIS:HE1	4	0.3
(1,3215)	1:15:A:GLN:HB2	1:2:A:MET:HG3	11	0.3
(1,3159)	1:149:A:MET:HB3	1:140:A:ILE:HD11	1	0.3
(1,3105)	1:39:A:ARG:HD3	1:39:A:ARG:HA	3	0.3
(1,3078)	1:134:A:GLU:HG3	1:134:A:GLU:HA	6	0.3
(1,3053)	1:55:A:MET:HE3	1:119:A:VAL:H	9	0.3
(1,3052)	1:55:A:MET:HE3	1:61:A:PHE:HZ	7	0.3
(1,3046)	1:54:A:ARG:HA	1:59:A:GLN:HG2	18	0.3
(1,2994)	1:11:A:GLU:HG2	1:11:A:GLU:HA	14	0.3
(1,2988)	1:43:A:ILE:HD12	1:40:A:LEU:HA	1	0.3
(1,2983)	1:36:A:LYS:HD3	1:36:A:LYS:HA	5	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2983)	1:36:A:LYS:HD3	1:36:A:LYS:HA	14	0.3
(1,2956)	1:41:A:ASN:HB2	1:44:A:TYR:HD1	5	0.3
(1,2956)	1:41:A:ASN:HB2	1:44:A:TYR:HD1	6	0.3
(1,2955)	1:145:A:THR:HG21	1:146:A:ASP:HB3	11	0.3
(1,2918)	1:141:A:SER:HB2	1:140:A:ILE:HG21	2	0.3
(1,2918)	1:141:A:SER:HB2	1:140:A:ILE:HG23	14	0.3
(1,2903)	1:169:A:ASP:H	1:165:A:GLN:HG2	10	0.3
(1,2903)	1:169:A:ASP:H	1:165:A:GLN:HG2	19	0.3
(1,2902)	1:46:A:LYS:HB2	1:108:A:TYR:HE2	15	0.3
(1,2873)	1:170:A:THR:HB	1:167:A:ILE:HG23	14	0.3
(1,2865)	1:93:A:LEU:HD22	1:167:A:ILE:HA	5	0.3
(1,2819)	1:121:A:SER:HA	1:121:A:SER:HB2	4	0.3
(1,2812)	1:56:A:LYS:HA	1:56:A:LYS:HE2	1	0.3
(1,2757)	1:163:A:TRP:HA	1:163:A:TRP:HZ2	13	0.3
(1,2753)	1:155:A:SER:HA	1:78:A:PHE:HD2	1	0.3
(1,2753)	1:155:A:SER:HA	1:78:A:PHE:HD2	10	0.3
(1,2661)	1:101:A:LEU:HD13	1:108:A:TYR:HA	14	0.3
(1,2599)	1:69:A:LYS:HA	1:69:A:LYS:HE2	1	0.3
(1,2594)	1:14:A:ALA:HA	1:19:A:LEU:HB2	6	0.3
(1,2567)	1:146:A:ASP:HA	1:147:A:PRO:HG2	7	0.3
(1,2494)	1:126:A:ILE:HD11	1:128:A:ARG:HD3	1	0.3
(1,2493)	1:128:A:ARG:HB2	1:128:A:ARG:HD3	15	0.3
(1,2493)	1:128:A:ARG:HB2	1:128:A:ARG:HD3	20	0.3
(1,2490)	1:39:A:ARG:HD2	1:38:A:VAL:HG13	3	0.3
(1,2407)	1:38:A:VAL:HG13	1:41:A:ASN:HB3	13	0.3
(1,2383)	1:35:A:GLU:HG3	1:38:A:VAL:HG11	18	0.3
(1,2360)	1:129:A:GLU:HG2	1:129:A:GLU:HB2	2	0.3
(1,2360)	1:129:A:GLU:HG2	1:129:A:GLU:HB2	19	0.3
(1,2359)	1:134:A:GLU:HG3	1:157:A:LYS:HB3	8	0.3
(1,2359)	1:134:A:GLU:HG3	1:157:A:LYS:HB3	19	0.3
(1,2312)	1:168:A:GLN:HG3	1:164:A:ILE:HG23	8	0.3
(1,2299)	1:102:A:GLN:HB3	1:89:A:VAL:HG13	15	0.3
(1,2299)	1:102:A:GLN:HB3	1:89:A:VAL:HG11	18	0.3
(1,2229)	1:7:A:GLU:HB2	1:7:A:GLU:HA	8	0.3
(1,2222)	1:154:A:ALA:HB2	1:159:A:GLU:HB2	5	0.3
(1,2222)	1:154:A:ALA:HB3	1:159:A:GLU:HB2	6	0.3
(1,2222)	1:154:A:ALA:HB1	1:159:A:GLU:HB2	8	0.3
(1,2222)	1:154:A:ALA:HB2	1:159:A:GLU:HB2	10	0.3
(1,2222)	1:154:A:ALA:HB2	1:159:A:GLU:HB2	15	0.3
(1,2219)	1:166:A:ILE:HG12	1:166:A:ILE:HG23	20	0.3
(1,2157)	1:135:A:LYS:HD3	1:135:A:LYS:HB3	6	0.3
(1,2023)	1:94:A:LEU:HD21	1:61:A:PHE:HZ	8	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2017)	1:167:A:ILE:HG23	1:93:A:LEU:HD11	12	0.3
(1,2012)	1:63:A:LYS:HG3	1:44:A:TYR:HE2	4	0.3
(1,1994)	1:174:A:LEU:HD12	1:171:A:ILE:HB	3	0.3
(1,1994)	1:174:A:LEU:HD11	1:171:A:ILE:HB	9	0.3
(1,1959)	1:66:A:LEU:HD11	1:66:A:LEU:HA	7	0.3
(1,1958)	1:66:A:LEU:HD13	1:44:A:TYR:HB2	14	0.3
(1,1935)	1:56:A:LYS:HG2	1:121:A:SER:HB2	18	0.3
(1,1906)	1:86:A:LEU:HD13	1:78:A:PHE:HE2	14	0.3
(1,1903)	1:86:A:LEU:HD12	1:78:A:PHE:HA	2	0.3
(1,1903)	1:86:A:LEU:HD11	1:78:A:PHE:HA	3	0.3
(1,1886)	1:174:A:LEU:HD23	1:174:A:LEU:HD13	12	0.3
(1,1886)	1:174:A:LEU:HD21	1:174:A:LEU:HD12	17	0.3
(1,1867)	1:19:A:LEU:HD22	1:19:A:LEU:HA	6	0.3
(1,1866)	1:95:A:THR:HG22	1:72:A:VAL:HA	20	0.3
(1,1865)	1:95:A:THR:HG21	1:170:A:THR:HA	1	0.3
(1,1865)	1:95:A:THR:HG23	1:170:A:THR:HA	12	0.3
(1,1855)	1:62:A:ALA:HB3	1:63:A:LYS:HB3	10	0.3
(1,1855)	1:62:A:ALA:HB2	1:63:A:LYS:HB3	17	0.3
(1,1787)	1:101:A:LEU:HD22	1:66:A:LEU:HD12	9	0.3
(1,1742)	1:119:A:VAL:HG11	1:110:A:PHE:HE1	6	0.3
(1,1742)	1:119:A:VAL:HG13	1:110:A:PHE:HE1	12	0.3
(1,1741)	1:119:A:VAL:HG12	1:110:A:PHE:HD1	9	0.3
(1,1727)	1:31:A:VAL:HG12	1:31:A:VAL:HB	3	0.3
(1,1727)	1:31:A:VAL:HG11	1:31:A:VAL:HB	4	0.3
(1,1727)	1:31:A:VAL:HG12	1:31:A:VAL:HB	7	0.3
(1,1727)	1:31:A:VAL:HG12	1:31:A:VAL:HB	12	0.3
(1,1727)	1:31:A:VAL:HG12	1:31:A:VAL:HB	17	0.3
(1,1727)	1:31:A:VAL:HG11	1:31:A:VAL:HB	18	0.3
(1,1727)	1:31:A:VAL:HG11	1:31:A:VAL:HB	19	0.3
(1,1720)	1:154:A:ALA:HB2	1:77:A:VAL:HG12	6	0.3
(1,1720)	1:154:A:ALA:HB1	1:77:A:VAL:HG11	19	0.3
(1,1690)	1:111:A:ALA:HB2	1:102:A:GLN:HB3	17	0.3
(1,1684)	1:32:A:ALA:HB2	1:32:A:ALA:HA	7	0.3
(1,1672)	1:109:A:ILE:HG21	1:104:A:LYS:HB2	20	0.3
(1,1666)	1:97:A:ILE:HG22	1:119:A:VAL:HG23	19	0.3
(1,1649)	1:167:A:ILE:HG21	1:127:A:VAL:HB	3	0.3
(1,1649)	1:167:A:ILE:HG22	1:127:A:VAL:HB	9	0.3
(1,1649)	1:167:A:ILE:HG23	1:127:A:VAL:HB	15	0.3
(1,1641)	1:82:A:ALA:HB2	1:82:A:ALA:HA	4	0.3
(1,1641)	1:82:A:ALA:HB1	1:82:A:ALA:HA	9	0.3
(1,1641)	1:82:A:ALA:HB2	1:82:A:ALA:HA	12	0.3
(1,1632)	1:126:A:ILE:HG22	1:140:A:ILE:HG23	6	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1620)	1:182:A:ILE:HG23	1:181:A:GLY:HA2	1	0.3
(1,1620)	1:182:A:ILE:HG22	1:181:A:GLY:HA2	9	0.3
(1,1620)	1:182:A:ILE:HG23	1:181:A:GLY:HA2	18	0.3
(1,1593)	1:55:A:MET:HE2	1:121:A:SER:HB3	19	0.3
(1,1583)	1:164:A:ILE:HG23	1:129:A:GLU:HG3	19	0.3
(1,1580)	1:164:A:ILE:HG21	1:127:A:VAL:HB	10	0.3
(1,1575)	1:164:A:ILE:HD11	1:161:A:ASN:HB3	16	0.3
(1,1570)	1:171:A:ILE:HD12	1:122:A:LEU:HB3	16	0.3
(1,1560)	1:97:A:ILE:HD12	1:69:A:LYS:HE3	8	0.3
(1,1539)	1:140:A:ILE:HD12	1:149:A:MET:HB2	17	0.3
(1,1528)	1:52:A:ILE:HD11	1:52:A:ILE:HG12	9	0.3
(1,1528)	1:52:A:ILE:HD12	1:52:A:ILE:HG12	13	0.3
(1,1528)	1:52:A:ILE:HD12	1:52:A:ILE:HG12	14	0.3
(1,1518)	1:109:A:ILE:HD11	1:102:A:GLN:HB2	2	0.3
(1,1476)	1:142:A:MET:H	1:142:A:MET:HG3	10	0.3
(1,1476)	1:142:A:MET:H	1:142:A:MET:HG3	20	0.3
(1,1463)	1:85:A:ARG:H	1:85:A:ARG:HG3	2	0.3
(1,1463)	1:85:A:ARG:H	1:85:A:ARG:HG3	18	0.3
(1,1457)	1:107:A:LYS:H	1:104:A:LYS:HB2	7	0.3
(1,1416)	1:79:A:LEU:H	1:89:A:VAL:HG23	15	0.3
(1,1415)	1:83:A:ALA:H	1:81:A:ASN:HA	9	0.3
(1,1400)	1:69:A:LYS:H	1:68:A:ARG:HB3	5	0.3
(1,1400)	1:69:A:LYS:H	1:68:A:ARG:HB3	11	0.3
(1,1350)	1:51:A:SER:H	1:109:A:ILE:HG21	2	0.3
(1,1350)	1:51:A:SER:H	1:109:A:ILE:HG21	7	0.3
(1,1350)	1:51:A:SER:H	1:109:A:ILE:HG21	19	0.3
(1,1350)	1:51:A:SER:H	1:109:A:ILE:HG22	20	0.3
(1,1342)	1:100:A:PHE:H	1:98:A:LEU:HD21	3	0.3
(1,1307)	1:63:A:LYS:H	1:47:A:THR:HG22	16	0.3
(1,1307)	1:63:A:LYS:H	1:47:A:THR:HG23	18	0.3
(1,1284)	1:44:A:TYR:H	1:44:A:TYR:HD1	14	0.3
(1,1275)	1:163:A:TRP:HE1	1:154:A:ALA:HB2	5	0.3
(1,1268)	1:153:A:HIS:H	1:152:A:VAL:HG12	7	0.3
(1,1268)	1:153:A:HIS:H	1:152:A:VAL:HG12	12	0.3
(1,1268)	1:153:A:HIS:H	1:152:A:VAL:HG11	18	0.3
(1,1251)	1:84:A:GLY:H	1:83:A:ALA:HB2	2	0.3
(1,1251)	1:84:A:GLY:H	1:83:A:ALA:HB1	10	0.3
(1,1216)	1:118:A:THR:H	1:117:A:SER:HB2	1	0.3
(1,1216)	1:118:A:THR:H	1:117:A:SER:HB2	14	0.3
(1,1216)	1:118:A:THR:H	1:117:A:SER:HB2	19	0.3
(1,1199)	1:67:A:LYS:H	1:67:A:LYS:HB3	8	0.3
(1,1167)	1:78:A:PHE:H	1:77:A:VAL:HG11	5	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1052)	1:164:A:ILE:H	1:164:A:ILE:HD12	8	0.3
(1,1052)	1:164:A:ILE:H	1:164:A:ILE:HD12	20	0.3
(1,1011)	1:47:A:THR:H	1:46:A:LYS:HD2	13	0.3
(1,992)	1:27:A:VAL:H	1:26:A:ALA:HB1	4	0.3
(1,992)	1:27:A:VAL:H	1:26:A:ALA:HB2	10	0.3
(1,992)	1:27:A:VAL:H	1:26:A:ALA:HB1	16	0.3
(1,942)	1:178:A:GLU:H	1:177:A:ASP:HB3	12	0.3
(1,894)	1:176:A:ARG:H	1:175:A:ASN:HB3	12	0.3
(1,827)	1:86:A:LEU:H	1:86:A:LEU:HD22	2	0.3
(1,827)	1:86:A:LEU:H	1:86:A:LEU:HD22	11	0.3
(1,784)	1:92:A:VAL:H	1:98:A:LEU:HD22	15	0.3
(1,767)	1:14:A:ALA:H	1:14:A:ALA:HA	2	0.3
(1,716)	1:141:A:SER:H	1:126:A:ILE:HD13	3	0.3
(1,716)	1:141:A:SER:H	1:126:A:ILE:HD11	16	0.3
(1,701)	1:137:A:LEU:H	1:130:A:VAL:HG21	12	0.3
(1,700)	1:137:A:LEU:H	1:137:A:LEU:HD22	4	0.3
(1,676)	1:111:A:ALA:H	1:101:A:LEU:HD21	19	0.3
(1,652)	1:171:A:ILE:H	1:171:A:ILE:HG21	20	0.3
(1,611)	1:81:A:ASN:H	1:86:A:LEU:HD21	2	0.3
(1,611)	1:81:A:ASN:H	1:86:A:LEU:HD23	18	0.3
(1,564)	1:104:A:LYS:H	1:103:A:GLU:HG3	15	0.3
(1,549)	1:61:A:PHE:H	1:52:A:ILE:HG23	3	0.3
(1,548)	1:61:A:PHE:H	1:60:A:MET:HB2	5	0.3
(1,548)	1:61:A:PHE:H	1:60:A:MET:HB2	11	0.3
(1,548)	1:61:A:PHE:H	1:60:A:MET:HB2	12	0.3
(1,548)	1:61:A:PHE:H	1:60:A:MET:HB2	14	0.3
(1,548)	1:61:A:PHE:H	1:60:A:MET:HB2	17	0.3
(1,516)	1:153:A:HIS:HD2	1:133:A:GLU:HB2	11	0.3
(1,506)	1:35:A:GLU:HA	1:34:A:TYR:HD1	7	0.3
(1,493)	1:87:A:LYS:HG2	1:87:A:LYS:HD3	4	0.3
(1,493)	1:87:A:LYS:HG2	1:87:A:LYS:HD3	15	0.3
(1,493)	1:87:A:LYS:HG2	1:87:A:LYS:HD3	18	0.3
(1,477)	1:50:A:LYS:HD2	1:50:A:LYS:HE2	18	0.3
(1,475)	1:109:A:ILE:HD11	1:51:A:SER:HB3	5	0.3
(1,475)	1:109:A:ILE:HD12	1:51:A:SER:HB3	15	0.3
(1,459)	1:15:A:GLN:HB2	1:4:A:LYS:HE2	18	0.3
(1,457)	1:92:A:VAL:H	1:98:A:LEU:HD22	20	0.3
(1,449)	1:31:A:VAL:HG13	1:30:A:LYS:HD3	8	0.3
(1,449)	1:31:A:VAL:HG12	1:30:A:LYS:HD3	13	0.3
(1,446)	1:22:A:ASP:HA	1:21:A:LYS:HG3	9	0.3
(1,446)	1:22:A:ASP:HA	1:21:A:LYS:HG3	20	0.3
(1,432)	1:67:A:LYS:HE3	1:44:A:TYR:HD1	4	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,431)	1:67:A:LYS:HE3	1:44:A:TYR:HE1	19	0.3
(1,431)	1:67:A:LYS:HE3	1:44:A:TYR:HE1	20	0.3
(1,396)	1:21:A:LYS:HA	1:21:A:LYS:HG2	15	0.3
(1,390)	1:170:A:THR:HA	1:171:A:ILE:HD11	7	0.3
(1,357)	1:34:A:TYR:HA	1:30:A:LYS:HE3	12	0.3
(1,357)	1:34:A:TYR:HA	1:30:A:LYS:HE3	19	0.3
(1,353)	1:67:A:LYS:HE3	1:67:A:LYS:HA	8	0.3
(1,353)	1:67:A:LYS:HE3	1:67:A:LYS:HA	12	0.3
(1,353)	1:67:A:LYS:HE3	1:67:A:LYS:HA	20	0.3
(1,348)	1:162:A:SER:HB2	1:161:A:ASN:HB3	16	0.3
(1,347)	1:162:A:SER:HB3	1:166:A:ILE:HD12	1	0.3
(1,347)	1:162:A:SER:HB3	1:166:A:ILE:HD13	10	0.3
(1,338)	1:157:A:LYS:HA	1:157:A:LYS:HB3	6	0.3
(1,338)	1:157:A:LYS:HA	1:157:A:LYS:HB3	13	0.3
(1,338)	1:157:A:LYS:HA	1:157:A:LYS:HB3	18	0.3
(1,315)	1:82:A:ALA:HA	1:116:A:LYS:HG3	5	0.3
(1,310)	1:14:A:ALA:HA	1:21:A:LYS:HD3	5	0.3
(1,310)	1:14:A:ALA:HA	1:21:A:LYS:HD3	18	0.3
(1,302)	1:25:A:GLY:HA2	1:28:A:ASP:HB3	19	0.3
(1,299)	1:85:A:ARG:HD2	1:84:A:GLY:HA2	7	0.3
(1,299)	1:85:A:ARG:HD3	1:84:A:GLY:HA2	8	0.3
(1,299)	1:85:A:ARG:HD3	1:84:A:GLY:HA2	9	0.3
(1,299)	1:85:A:ARG:HD2	1:84:A:GLY:HA2	14	0.3
(1,299)	1:85:A:ARG:HD2	1:84:A:GLY:HA2	20	0.3
(1,295)	1:50:A:LYS:HE3	1:50:A:LYS:HA	6	0.3
(1,293)	1:67:A:LYS:HE3	1:64:A:GLU:HA	16	0.3
(1,290)	1:83:A:ALA:HB1	1:85:A:ARG:HD3	5	0.3
(1,290)	1:83:A:ALA:HB3	1:85:A:ARG:HD3	10	0.3
(1,273)	1:50:A:LYS:HG3	1:50:A:LYS:HE3	6	0.3
(1,253)	1:115:A:GLN:HG2	1:113:A:LEU:HB2	8	0.3
(1,253)	1:115:A:GLN:HG2	1:113:A:LEU:HB2	18	0.3
(1,246)	1:87:A:LYS:HB2	1:79:A:LEU:HD22	20	0.3
(1,243)	1:4:A:LYS:HB2	1:4:A:LYS:HE3	4	0.3
(1,217)	1:37:A:LYS:HD3	1:37:A:LYS:HA	7	0.3
(1,217)	1:37:A:LYS:HD3	1:37:A:LYS:HA	16	0.3
(1,198)	1:56:A:LYS:HD2	1:121:A:SER:HB2	9	0.3
(1,197)	1:68:A:ARG:HG2	1:67:A:LYS:HE2	5	0.3
(1,154)	1:71:A:LEU:HD12	1:74:A:ASP:HB2	4	0.3
(1,144)	1:30:A:LYS:HG3	1:30:A:LYS:HD2	4	0.3
(1,144)	1:30:A:LYS:HG3	1:30:A:LYS:HD2	5	0.3
(1,144)	1:30:A:LYS:HG3	1:30:A:LYS:HD2	11	0.3
(1,144)	1:30:A:LYS:HG3	1:30:A:LYS:HD2	15	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,144)	1:30:A:LYS:HG3	1:30:A:LYS:HD2	18	0.3
(1,109)	1:97:A:ILE:HD13	1:119:A:VAL:HG23	15	0.3
(1,61)	1:79:A:LEU:H	1:87:A:LYS:HB2	9	0.3
(1,61)	1:79:A:LEU:H	1:87:A:LYS:HB2	14	0.3
(1,58)	1:13:A:LEU:H	1:19:A:LEU:HD12	10	0.3
(1,57)	1:75:A:GLY:H	1:77:A:VAL:HG23	14	0.3
(1,56)	1:106:A:GLN:H	1:106:A:GLN:HG3	2	0.3
(1,46)	1:175:A:ASN:H	1:174:A:LEU:HG	15	0.3
(1,32)	1:139:A:LEU:H	1:138:A:PHE:HD1	4	0.3
(1,31)	1:139:A:LEU:H	1:149:A:MET:HG3	14	0.3
(1,31)	1:139:A:LEU:H	1:149:A:MET:HG3	19	0.3
(1,30)	1:139:A:LEU:H	1:139:A:LEU:HD22	4	0.3
(1,30)	1:139:A:LEU:H	1:139:A:LEU:HD21	11	0.3
(2,24)	1:167:A:ILE:H	1:163:A:TRP:O	18	0.29
(2,22)	1:162:A:SER:H	1:159:A:GLU:O	5	0.29
(2,22)	1:162:A:SER:H	1:159:A:GLU:O	6	0.29
(2,21)	1:161:A:ASN:H	1:158:A:GLU:O	2	0.29
(1,3514)	1:35:A:GLU:HA	1:34:A:TYR:HE1	20	0.29
(1,3501)	1:86:A:LEU:HB2	1:78:A:PHE:HD2	20	0.29
(1,3407)	1:55:A:MET:HE1	1:119:A:VAL:HA	12	0.29
(1,3401)	1:126:A:ILE:HG22	1:143:A:GLY:H	19	0.29
(1,3400)	1:126:A:ILE:HG22	1:142:A:MET:HG2	1	0.29
(1,3400)	1:126:A:ILE:HG23	1:142:A:MET:HG2	11	0.29
(1,3400)	1:126:A:ILE:HG21	1:142:A:MET:HG2	13	0.29
(1,3400)	1:126:A:ILE:HG22	1:142:A:MET:HG2	17	0.29
(1,3397)	1:45:A:THR:HG22	1:42:A:GLU:HG3	1	0.29
(1,3383)	1:42:A:GLU:HG3	1:38:A:VAL:HG22	18	0.29
(1,3371)	1:67:A:LYS:HD2	1:67:A:LYS:HB3	18	0.29
(1,3277)	1:111:A:ALA:HB1	1:100:A:PHE:HD2	17	0.29
(1,3277)	1:111:A:ALA:HB3	1:100:A:PHE:HD2	19	0.29
(1,3272)	1:98:A:LEU:H	1:97:A:ILE:HG22	7	0.29
(1,3272)	1:98:A:LEU:H	1:97:A:ILE:HG21	12	0.29
(1,3264)	1:20:A:VAL:HG22	1:27:A:VAL:HA	17	0.29
(1,3244)	1:94:A:LEU:HD11	1:92:A:VAL:H	8	0.29
(1,3238)	1:91:A:ALA:HA	1:98:A:LEU:HD21	1	0.29
(1,3238)	1:91:A:ALA:HA	1:98:A:LEU:HD22	12	0.29
(1,3222)	1:77:A:VAL:HG22	1:78:A:PHE:H	14	0.29
(1,3222)	1:77:A:VAL:HG23	1:78:A:PHE:H	18	0.29
(1,3207)	1:166:A:ILE:HG23	1:167:A:ILE:H	4	0.29
(1,3207)	1:166:A:ILE:HG22	1:167:A:ILE:H	18	0.29
(1,3172)	1:101:A:LEU:HD23	1:110:A:PHE:HE1	19	0.29
(1,3152)	1:97:A:ILE:HD12	1:65:A:ASP:HB3	14	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3092)	1:157:A:LYS:HA	1:157:A:LYS:HE2	2	0.29
(1,3078)	1:134:A:GLU:HG3	1:134:A:GLU:HA	14	0.29
(1,3053)	1:55:A:MET:HE3	1:119:A:VAL:H	15	0.29
(1,3046)	1:54:A:ARG:HA	1:59:A:GLN:HG2	14	0.29
(1,3008)	1:50:A:LYS:HD3	1:50:A:LYS:HA	2	0.29
(1,3008)	1:50:A:LYS:HD3	1:50:A:LYS:HA	12	0.29
(1,2988)	1:43:A:ILE:HD12	1:40:A:LEU:HA	13	0.29
(1,2983)	1:36:A:LYS:HD3	1:36:A:LYS:HA	8	0.29
(1,2975)	1:102:A:GLN:HG2	1:109:A:ILE:HD11	3	0.29
(1,2956)	1:41:A:ASN:HB2	1:44:A:TYR:HD1	10	0.29
(1,2956)	1:41:A:ASN:HB2	1:44:A:TYR:HD1	14	0.29
(1,2955)	1:145:A:THR:HG23	1:146:A:ASP:HB3	13	0.29
(1,2955)	1:145:A:THR:HG21	1:146:A:ASP:HB3	20	0.29
(1,2950)	1:60:A:MET:HG2	1:60:A:MET:HE2	2	0.29
(1,2924)	1:166:A:ILE:HD13	1:163:A:TRP:HA	5	0.29
(1,2904)	1:140:A:ILE:HD11	1:128:A:ARG:HB3	8	0.29
(1,2903)	1:169:A:ASP:H	1:165:A:GLN:HG2	6	0.29
(1,2903)	1:169:A:ASP:H	1:165:A:GLN:HG2	11	0.29
(1,2873)	1:170:A:THR:HB	1:167:A:ILE:HG23	7	0.29
(1,2873)	1:170:A:THR:HB	1:167:A:ILE:HG23	11	0.29
(1,2873)	1:170:A:THR:HB	1:167:A:ILE:HG21	13	0.29
(1,2868)	1:167:A:ILE:HA	1:170:A:THR:HG21	6	0.29
(1,2843)	1:31:A:VAL:HA	1:34:A:TYR:HE1	5	0.29
(1,2789)	1:158:A:GLU:HG2	1:158:A:GLU:HA	18	0.29
(1,2774)	1:77:A:VAL:HA	1:89:A:VAL:HG21	13	0.29
(1,2757)	1:163:A:TRP:HA	1:163:A:TRP:HZ2	4	0.29
(1,2757)	1:163:A:TRP:HA	1:163:A:TRP:HZ2	6	0.29
(1,2757)	1:163:A:TRP:HA	1:163:A:TRP:HZ2	9	0.29
(1,2757)	1:163:A:TRP:HA	1:163:A:TRP:HZ2	12	0.29
(1,2756)	1:63:A:LYS:HA	1:44:A:TYR:HE2	10	0.29
(1,2721)	1:61:A:PHE:HA	1:61:A:PHE:HE2	9	0.29
(1,2713)	1:66:A:LEU:HD21	1:66:A:LEU:HA	3	0.29
(1,2677)	1:144:A:MET:HG2	1:144:A:MET:HA	18	0.29
(1,2657)	1:108:A:TYR:HA	1:109:A:ILE:HD12	3	0.29
(1,2510)	1:73:A:ARG:HD3	1:73:A:ARG:HA	20	0.29
(1,2505)	1:166:A:ILE:HD11	1:73:A:ARG:HD3	18	0.29
(1,2494)	1:126:A:ILE:HD12	1:128:A:ARG:HD3	3	0.29
(1,2494)	1:126:A:ILE:HD13	1:128:A:ARG:HD3	15	0.29
(1,2473)	1:80:A:LYS:HE2	1:86:A:LEU:HD23	16	0.29
(1,2407)	1:38:A:VAL:HG11	1:41:A:ASN:HB3	15	0.29
(1,2359)	1:134:A:GLU:HG3	1:157:A:LYS:HB3	4	0.29
(1,2356)	1:128:A:ARG:HB3	1:130:A:VAL:H	15	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2278)	1:123:A:LYS:HB2	1:174:A:LEU:HD22	6	0.29
(1,2278)	1:123:A:LYS:HB2	1:174:A:LEU:HD22	12	0.29
(1,2278)	1:123:A:LYS:HB2	1:174:A:LEU:HD21	16	0.29
(1,2278)	1:123:A:LYS:HB2	1:174:A:LEU:HD21	18	0.29
(1,2278)	1:123:A:LYS:HB2	1:174:A:LEU:HD23	19	0.29
(1,2226)	1:11:A:GLU:HB3	1:177:A:ASP:HB3	15	0.29
(1,2222)	1:154:A:ALA:HB2	1:159:A:GLU:HB2	3	0.29
(1,2222)	1:154:A:ALA:HB1	1:159:A:GLU:HB2	14	0.29
(1,2197)	1:68:A:ARG:HB3	1:68:A:ARG:HD3	13	0.29
(1,2188)	1:98:A:LEU:HD23	1:93:A:LEU:HD22	3	0.29
(1,2188)	1:98:A:LEU:HD21	1:93:A:LEU:HD23	12	0.29
(1,2157)	1:135:A:LYS:HD3	1:135:A:LYS:HB3	7	0.29
(1,2141)	1:56:A:LYS:HD3	1:144:A:MET:HE1	20	0.29
(1,2119)	1:137:A:LEU:HD11	1:163:A:TRP:HB3	3	0.29
(1,2017)	1:167:A:ILE:HG23	1:93:A:LEU:HD12	7	0.29
(1,2017)	1:167:A:ILE:HG23	1:93:A:LEU:HD13	14	0.29
(1,1994)	1:174:A:LEU:HD11	1:171:A:ILE:HB	2	0.29
(1,1994)	1:174:A:LEU:HD11	1:171:A:ILE:HB	14	0.29
(1,1994)	1:174:A:LEU:HD11	1:171:A:ILE:HB	17	0.29
(1,1946)	1:50:A:LYS:HG2	1:60:A:MET:HE1	11	0.29
(1,1946)	1:50:A:LYS:HG2	1:60:A:MET:HE3	20	0.29
(1,1935)	1:56:A:LYS:HG2	1:121:A:SER:HB2	10	0.29
(1,1923)	1:67:A:LYS:HG2	1:44:A:TYR:HD2	10	0.29
(1,1923)	1:67:A:LYS:HG2	1:44:A:TYR:HD1	13	0.29
(1,1903)	1:86:A:LEU:HD12	1:78:A:PHE:HA	15	0.29
(1,1886)	1:174:A:LEU:HD22	1:174:A:LEU:HD12	14	0.29
(1,1860)	1:62:A:ALA:HB2	1:110:A:PHE:HE2	11	0.29
(1,1855)	1:62:A:ALA:HB3	1:63:A:LYS:HB3	5	0.29
(1,1811)	1:38:A:VAL:HG12	1:38:A:VAL:HG21	16	0.29
(1,1767)	1:86:A:LEU:HD21	1:86:A:LEU:HB2	18	0.29
(1,1752)	1:89:A:VAL:HG11	1:79:A:LEU:HD12	2	0.29
(1,1752)	1:89:A:VAL:HG13	1:79:A:LEU:HD12	19	0.29
(1,1752)	1:89:A:VAL:HG11	1:79:A:LEU:HD13	20	0.29
(1,1742)	1:119:A:VAL:HG13	1:110:A:PHE:HE1	14	0.29
(1,1741)	1:119:A:VAL:HG12	1:110:A:PHE:HD1	20	0.29
(1,1727)	1:31:A:VAL:HG11	1:31:A:VAL:HB	10	0.29
(1,1727)	1:31:A:VAL:HG12	1:31:A:VAL:HB	13	0.29
(1,1690)	1:111:A:ALA:HB2	1:102:A:GLN:HB3	14	0.29
(1,1687)	1:111:A:ALA:HB1	1:89:A:VAL:HG22	20	0.29
(1,1684)	1:32:A:ALA:HB2	1:32:A:ALA:HA	3	0.29
(1,1684)	1:32:A:ALA:HB1	1:32:A:ALA:HA	12	0.29
(1,1666)	1:97:A:ILE:HG23	1:119:A:VAL:HG21	7	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1620)	1:182:A:ILE:HG21	1:181:A:GLY:HA2	5	0.29
(1,1614)	1:171:A:ILE:HG22	1:174:A:LEU:HD11	1	0.29
(1,1603)	1:149:A:MET:HE1	1:149:A:MET:HA	15	0.29
(1,1582)	1:164:A:ILE:HG21	1:129:A:GLU:HG2	4	0.29
(1,1582)	1:164:A:ILE:HG21	1:129:A:GLU:HG2	11	0.29
(1,1580)	1:164:A:ILE:HG23	1:127:A:VAL:HB	2	0.29
(1,1539)	1:140:A:ILE:HD11	1:149:A:MET:HB2	7	0.29
(1,1539)	1:140:A:ILE:HD13	1:149:A:MET:HB2	14	0.29
(1,1539)	1:140:A:ILE:HD13	1:149:A:MET:HB2	15	0.29
(1,1528)	1:52:A:ILE:HD11	1:52:A:ILE:HG12	16	0.29
(1,1528)	1:52:A:ILE:HD12	1:52:A:ILE:HG12	18	0.29
(1,1525)	1:166:A:ILE:HD12	1:169:A:ASP:HB3	5	0.29
(1,1519)	1:109:A:ILE:HD13	1:104:A:LYS:HG2	1	0.29
(1,1519)	1:109:A:ILE:HD11	1:104:A:LYS:HG2	11	0.29
(1,1518)	1:109:A:ILE:HD11	1:102:A:GLN:HB2	3	0.29
(1,1518)	1:109:A:ILE:HD13	1:102:A:GLN:HB2	4	0.29
(1,1518)	1:109:A:ILE:HD11	1:102:A:GLN:HB2	12	0.29
(1,1476)	1:142:A:MET:H	1:142:A:MET:HG3	11	0.29
(1,1476)	1:142:A:MET:H	1:142:A:MET:HG3	12	0.29
(1,1476)	1:142:A:MET:H	1:142:A:MET:HG3	14	0.29
(1,1476)	1:142:A:MET:H	1:142:A:MET:HG3	17	0.29
(1,1463)	1:85:A:ARG:H	1:85:A:ARG:HG3	6	0.29
(1,1463)	1:85:A:ARG:H	1:85:A:ARG:HG3	10	0.29
(1,1415)	1:83:A:ALA:H	1:81:A:ASN:HA	15	0.29
(1,1400)	1:69:A:LYS:H	1:68:A:ARG:HB3	14	0.29
(1,1386)	1:175:A:ASN:HD21	1:171:A:ILE:HG21	5	0.29
(1,1359)	1:69:A:LYS:H	1:40:A:LEU:HD11	13	0.29
(1,1359)	1:69:A:LYS:H	1:40:A:LEU:HD11	19	0.29
(1,1354)	1:15:A:GLN:H	1:15:A:GLN:HB2	11	0.29
(1,1350)	1:51:A:SER:H	1:109:A:ILE:HG23	11	0.29
(1,1350)	1:51:A:SER:H	1:109:A:ILE:HG21	12	0.29
(1,1350)	1:51:A:SER:H	1:109:A:ILE:HG22	14	0.29
(1,1311)	1:63:A:LYS:H	1:63:A:LYS:HD2	4	0.29
(1,1311)	1:63:A:LYS:H	1:63:A:LYS:HD2	6	0.29
(1,1284)	1:44:A:TYR:H	1:44:A:TYR:HD1	15	0.29
(1,1282)	1:22:A:ASP:H	1:22:A:ASP:HB2	7	0.29
(1,1275)	1:163:A:TRP:HE1	1:154:A:ALA:HB1	9	0.29
(1,1268)	1:153:A:HIS:H	1:152:A:VAL:HG12	15	0.29
(1,1251)	1:84:A:GLY:H	1:83:A:ALA:HB1	4	0.29
(1,1241)	1:96:A:ASP:H	1:95:A:THR:HG22	18	0.29
(1,1216)	1:118:A:THR:H	1:117:A:SER:HB2	4	0.29
(1,1199)	1:67:A:LYS:H	1:67:A:LYS:HB3	9	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1060)	1:172:A:ASN:H	1:171:A:ILE:HG23	1	0.29
(1,1052)	1:164:A:ILE:H	1:164:A:ILE:HD11	1	0.29
(1,1052)	1:164:A:ILE:H	1:164:A:ILE:HD13	6	0.29
(1,1052)	1:164:A:ILE:H	1:164:A:ILE:HD12	7	0.29
(1,1052)	1:164:A:ILE:H	1:164:A:ILE:HD12	13	0.29
(1,1052)	1:164:A:ILE:H	1:164:A:ILE:HD11	18	0.29
(1,945)	1:89:A:VAL:H	1:78:A:PHE:HD1	18	0.29
(1,938)	1:102:A:GLN:H	1:101:A:LEU:HB2	5	0.29
(1,931)	1:121:A:SER:H	1:120:A:ILE:HG22	14	0.29
(1,897)	1:176:A:ARG:H	1:176:A:ARG:HG3	3	0.29
(1,870)	1:38:A:VAL:H	1:38:A:VAL:HG12	2	0.29
(1,870)	1:38:A:VAL:H	1:38:A:VAL:HG13	11	0.29
(1,851)	1:159:A:GLU:H	1:158:A:GLU:HB2	10	0.29
(1,823)	1:86:A:LEU:H	1:85:A:ARG:HB2	3	0.29
(1,807)	1:163:A:TRP:H	1:163:A:TRP:HB3	19	0.29
(1,792)	1:87:A:LYS:H	1:78:A:PHE:HD1	11	0.29
(1,716)	1:141:A:SER:H	1:126:A:ILE:HD12	2	0.29
(1,716)	1:141:A:SER:H	1:126:A:ILE:HD11	11	0.29
(1,716)	1:141:A:SER:H	1:126:A:ILE:HD12	14	0.29
(1,716)	1:141:A:SER:H	1:126:A:ILE:HD12	17	0.29
(1,716)	1:141:A:SER:H	1:126:A:ILE:HD12	18	0.29
(1,716)	1:141:A:SER:H	1:126:A:ILE:HD13	20	0.29
(1,676)	1:111:A:ALA:H	1:101:A:LEU:HD22	4	0.29
(1,676)	1:111:A:ALA:H	1:101:A:LEU:HD23	6	0.29
(1,676)	1:111:A:ALA:H	1:101:A:LEU:HD21	15	0.29
(1,658)	1:122:A:LEU:H	1:97:A:ILE:HB	15	0.29
(1,658)	1:122:A:LEU:H	1:97:A:ILE:HB	19	0.29
(1,611)	1:81:A:ASN:H	1:86:A:LEU:HD22	14	0.29
(1,555)	1:93:A:LEU:H	1:163:A:TRP:HZ2	20	0.29
(1,548)	1:61:A:PHE:H	1:60:A:MET:HB2	9	0.29
(1,548)	1:61:A:PHE:H	1:60:A:MET:HB2	13	0.29
(1,515)	1:37:A:LYS:HD2	1:34:A:TYR:HE2	3	0.29
(1,506)	1:35:A:GLU:HA	1:34:A:TYR:HD2	9	0.29
(1,506)	1:35:A:GLU:HA	1:34:A:TYR:HD2	19	0.29
(1,505)	1:37:A:LYS:HE2	1:34:A:TYR:HD2	18	0.29
(1,499)	1:36:A:LYS:HD3	1:36:A:LYS:HA	20	0.29
(1,495)	1:10:A:GLN:HG3	1:10:A:GLN:HB3	13	0.29
(1,457)	1:92:A:VAL:H	1:98:A:LEU:HD22	19	0.29
(1,449)	1:31:A:VAL:HG12	1:30:A:LYS:HD3	5	0.29
(1,449)	1:31:A:VAL:HG12	1:30:A:LYS:HD3	11	0.29
(1,440)	1:36:A:LYS:HE2	1:36:A:LYS:HD3	15	0.29
(1,437)	1:37:A:LYS:HB3	1:34:A:TYR:HE1	14	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,437)	1:37:A:LYS:HB3	1:34:A:TYR:HE2	17	0.29
(1,416)	1:16:A:SER:HA	1:8:A:VAL:HG13	7	0.29
(1,396)	1:21:A:LYS:HA	1:21:A:LYS:HG2	8	0.29
(1,396)	1:21:A:LYS:HA	1:21:A:LYS:HG2	19	0.29
(1,393)	1:32:A:ALA:HA	1:31:A:VAL:HG22	1	0.29
(1,393)	1:32:A:ALA:HA	1:31:A:VAL:HG23	6	0.29
(1,393)	1:32:A:ALA:HA	1:31:A:VAL:HG23	12	0.29
(1,376)	1:30:A:LYS:HB3	1:31:A:VAL:HA	9	0.29
(1,367)	1:121:A:SER:HB2	1:185:A:GLU:HA	3	0.29
(1,367)	1:121:A:SER:HB2	1:185:A:GLU:HA	13	0.29
(1,357)	1:34:A:TYR:HA	1:30:A:LYS:HE3	20	0.29
(1,353)	1:67:A:LYS:HE3	1:67:A:LYS:HA	14	0.29
(1,349)	1:8:A:VAL:HG22	1:8:A:VAL:HA	7	0.29
(1,349)	1:8:A:VAL:HG22	1:8:A:VAL:HA	12	0.29
(1,339)	1:157:A:LYS:HA	1:134:A:GLU:HB2	10	0.29
(1,338)	1:157:A:LYS:HA	1:157:A:LYS:HB3	11	0.29
(1,338)	1:157:A:LYS:HA	1:157:A:LYS:HB3	16	0.29
(1,299)	1:85:A:ARG:HD2	1:84:A:GLY:HA2	17	0.29
(1,299)	1:85:A:ARG:HD2	1:84:A:GLY:HA2	18	0.29
(1,295)	1:50:A:LYS:HE3	1:50:A:LYS:HA	18	0.29
(1,279)	1:157:A:LYS:HG2	1:157:A:LYS:HE2	11	0.29
(1,279)	1:157:A:LYS:HG2	1:157:A:LYS:HE2	18	0.29
(1,257)	1:103:A:GLU:HG2	1:106:A:GLN:HA	6	0.29
(1,257)	1:103:A:GLU:HG2	1:106:A:GLN:HA	9	0.29
(1,246)	1:87:A:LYS:HB2	1:79:A:LEU:HD22	11	0.29
(1,246)	1:87:A:LYS:HB2	1:79:A:LEU:HD23	18	0.29
(1,244)	1:87:A:LYS:HG2	1:87:A:LYS:HB3	12	0.29
(1,244)	1:87:A:LYS:HG2	1:87:A:LYS:HB3	17	0.29
(1,244)	1:87:A:LYS:HG2	1:87:A:LYS:HB3	19	0.29
(1,199)	1:56:A:LYS:HD3	1:56:A:LYS:HB3	9	0.29
(1,176)	1:124:A:LYS:HG2	1:124:A:LYS:HE3	5	0.29
(1,168)	1:107:A:LYS:HG2	1:106:A:GLN:HG3	5	0.29
(1,168)	1:107:A:LYS:HG2	1:106:A:GLN:HG3	13	0.29
(1,149)	1:30:A:LYS:HG2	1:30:A:LYS:HB2	6	0.29
(1,149)	1:30:A:LYS:HG2	1:30:A:LYS:HB2	12	0.29
(1,144)	1:30:A:LYS:HG3	1:30:A:LYS:HD2	7	0.29
(1,144)	1:30:A:LYS:HG3	1:30:A:LYS:HD2	16	0.29
(1,140)	1:70:A:LYS:HG3	1:70:A:LYS:HD2	2	0.29
(1,92)	1:17:A:LEU:H	1:16:A:SER:HB3	15	0.29
(1,89)	1:127:A:VAL:H	1:127:A:VAL:HG21	19	0.29
(1,79)	1:116:A:LYS:H	1:116:A:LYS:HD2	2	0.29
(1,61)	1:79:A:LEU:H	1:87:A:LYS:HB2	2	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,57)	1:75:A:GLY:H	1:77:A:VAL:HG21	18	0.29
(1,50)	1:64:A:GLU:H	1:64:A:GLU:HG2	14	0.29
(1,37)	1:169:A:ASP:H	1:167:A:ILE:HD11	1	0.29
(1,37)	1:169:A:ASP:H	1:167:A:ILE:HD11	4	0.29
(1,37)	1:169:A:ASP:H	1:167:A:ILE:HD12	6	0.29
(1,31)	1:139:A:LEU:H	1:149:A:MET:HG3	13	0.29
(1,31)	1:139:A:LEU:H	1:149:A:MET:HG3	20	0.29
(1,30)	1:139:A:LEU:H	1:139:A:LEU:HD22	3	0.29
(1,30)	1:139:A:LEU:H	1:139:A:LEU:HD23	7	0.29
(1,30)	1:139:A:LEU:H	1:139:A:LEU:HD23	15	0.29
(1,30)	1:139:A:LEU:H	1:139:A:LEU:HD23	16	0.29
(1,27)	1:50:A:LYS:H	1:51:A:SER:HB2	4	0.29
(1,27)	1:50:A:LYS:H	1:51:A:SER:HB2	10	0.29
(2,24)	1:167:A:ILE:H	1:163:A:TRP:O	5	0.28
(2,13)	1:101:A:LEU:H	1:90:A:GLN:O	13	0.28
(1,3534)	1:110:A:PHE:HZ	1:61:A:PHE:HE2	8	0.28
(1,3529)	1:78:A:PHE:HE1	1:78:A:PHE:HB2	19	0.28
(1,3512)	1:101:A:LEU:HD11	1:108:A:TYR:HE2	4	0.28
(1,3512)	1:101:A:LEU:HD11	1:108:A:TYR:HE2	15	0.28
(1,3501)	1:86:A:LEU:HB2	1:78:A:PHE:HD2	17	0.28
(1,3456)	1:133:A:GLU:HG3	1:153:A:HIS:HE1	13	0.28
(1,3453)	1:67:A:LYS:HB3	1:44:A:TYR:HD1	12	0.28
(1,3436)	1:78:A:PHE:HE2	1:78:A:PHE:HD2	5	0.28
(1,3436)	1:78:A:PHE:HE2	1:78:A:PHE:HD2	12	0.28
(1,3436)	1:78:A:PHE:HE2	1:78:A:PHE:HD2	13	0.28
(1,3436)	1:78:A:PHE:HE2	1:78:A:PHE:HD2	18	0.28
(1,3381)	1:67:A:LYS:HA	1:40:A:LEU:HD11	1	0.28
(1,3370)	1:174:A:LEU:HD23	1:171:A:ILE:HA	19	0.28
(1,3370)	1:174:A:LEU:HD21	1:171:A:ILE:HA	20	0.28
(1,3346)	1:69:A:LYS:HD2	1:97:A:ILE:HD11	19	0.28
(1,3301)	1:154:A:ALA:HB1	1:163:A:TRP:HD1	1	0.28
(1,3276)	1:111:A:ALA:HB1	1:109:A:ILE:H	8	0.28
(1,3276)	1:111:A:ALA:HB2	1:109:A:ILE:H	17	0.28
(1,3272)	1:98:A:LEU:H	1:97:A:ILE:HG23	5	0.28
(1,3272)	1:98:A:LEU:H	1:97:A:ILE:HG21	10	0.28
(1,3242)	1:113:A:LEU:HD12	1:81:A:ASN:H	14	0.28
(1,3238)	1:91:A:ALA:HA	1:98:A:LEU:HD23	2	0.28
(1,3238)	1:91:A:ALA:HA	1:98:A:LEU:HD22	15	0.28
(1,3230)	1:86:A:LEU:HD21	1:153:A:HIS:HD2	12	0.28
(1,3230)	1:86:A:LEU:HD21	1:153:A:HIS:HD2	14	0.28
(1,3207)	1:166:A:ILE:HG22	1:167:A:ILE:H	3	0.28
(1,3207)	1:166:A:ILE:HG22	1:167:A:ILE:H	10	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3207)	1:166:A:ILE:HG21	1:167:A:ILE:H	20	0.28
(1,3172)	1:101:A:LEU:HD21	1:110:A:PHE:HE1	14	0.28
(1,3152)	1:97:A:ILE:HD11	1:65:A:ASP:HB3	10	0.28
(1,3149)	1:47:A:THR:HG21	1:63:A:LYS:HE2	17	0.28
(1,3100)	1:128:A:ARG:HB3	1:128:A:ARG:HD2	10	0.28
(1,3055)	1:144:A:MET:HG3	1:145:A:THR:HG21	19	0.28
(1,3053)	1:55:A:MET:HE3	1:119:A:VAL:H	1	0.28
(1,3052)	1:55:A:MET:HE3	1:61:A:PHE:HZ	6	0.28
(1,3052)	1:55:A:MET:HE3	1:61:A:PHE:HZ	12	0.28
(1,3051)	1:55:A:MET:HE3	1:59:A:GLN:HE22	12	0.28
(1,3046)	1:54:A:ARG:HA	1:59:A:GLN:HG2	6	0.28
(1,3046)	1:54:A:ARG:HA	1:59:A:GLN:HG2	9	0.28
(1,3046)	1:54:A:ARG:HA	1:59:A:GLN:HG2	11	0.28
(1,3046)	1:54:A:ARG:HA	1:59:A:GLN:HG2	16	0.28
(1,2988)	1:43:A:ILE:HD12	1:40:A:LEU:HA	17	0.28
(1,2955)	1:145:A:THR:HG22	1:146:A:ASP:HB3	8	0.28
(1,2955)	1:145:A:THR:HG23	1:146:A:ASP:HB3	10	0.28
(1,2950)	1:60:A:MET:HG2	1:60:A:MET:HE2	4	0.28
(1,2924)	1:166:A:ILE:HD11	1:163:A:TRP:HA	16	0.28
(1,2918)	1:141:A:SER:HB2	1:140:A:ILE:HG23	5	0.28
(1,2903)	1:169:A:ASP:H	1:165:A:GLN:HG2	3	0.28
(1,2903)	1:169:A:ASP:H	1:165:A:GLN:HG2	8	0.28
(1,2903)	1:169:A:ASP:H	1:165:A:GLN:HG2	12	0.28
(1,2903)	1:169:A:ASP:H	1:165:A:GLN:HG2	13	0.28
(1,2903)	1:169:A:ASP:H	1:165:A:GLN:HG2	15	0.28
(1,2903)	1:169:A:ASP:H	1:165:A:GLN:HG2	17	0.28
(1,2903)	1:169:A:ASP:H	1:165:A:GLN:HG2	18	0.28
(1,2894)	1:68:A:ARG:HB3	1:7:A:GLU:HA	8	0.28
(1,2843)	1:31:A:VAL:HA	1:34:A:TYR:HE1	12	0.28
(1,2783)	1:117:A:SER:HA	1:55:A:MET:HB3	4	0.28
(1,2774)	1:77:A:VAL:HA	1:89:A:VAL:HG22	6	0.28
(1,2757)	1:163:A:TRP:HA	1:163:A:TRP:HZ2	11	0.28
(1,2757)	1:163:A:TRP:HA	1:163:A:TRP:HZ2	14	0.28
(1,2713)	1:66:A:LEU:HD22	1:66:A:LEU:HA	19	0.28
(1,2709)	1:4:A:LYS:HB3	1:4:A:LYS:HA	20	0.28
(1,2696)	1:4:A:LYS:HA	1:4:A:LYS:HD2	16	0.28
(1,2672)	1:106:A:GLN:HG3	1:105:A:ASP:HA	1	0.28
(1,2505)	1:166:A:ILE:HD13	1:73:A:ARG:HD3	15	0.28
(1,2494)	1:126:A:ILE:HD11	1:128:A:ARG:HD3	17	0.28
(1,2473)	1:80:A:LYS:HE2	1:86:A:LEU:HD22	10	0.28
(1,2473)	1:80:A:LYS:HE2	1:86:A:LEU:HD21	17	0.28
(1,2468)	1:80:A:LYS:HE3	1:80:A:LYS:HD3	2	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2468)	1:80:A:LYS:HE3	1:80:A:LYS:HD3	13	0.28
(1,2468)	1:80:A:LYS:HE3	1:80:A:LYS:HD3	17	0.28
(1,2468)	1:80:A:LYS:HE3	1:80:A:LYS:HD3	19	0.28
(1,2461)	1:96:A:ASP:HB2	1:185:A:GLU:HB3	16	0.28
(1,2389)	1:151:A:GLU:HG3	1:150:A:VAL:HG13	12	0.28
(1,2353)	1:133:A:GLU:HG3	1:130:A:VAL:HG12	12	0.28
(1,2350)	1:102:A:GLN:HG3	1:89:A:VAL:HG11	3	0.28
(1,2313)	1:168:A:GLN:HG2	1:164:A:ILE:HG22	8	0.28
(1,2313)	1:168:A:GLN:HG2	1:164:A:ILE:HG21	20	0.28
(1,2304)	1:123:A:LYS:HB3	1:123:A:LYS:HE2	5	0.28
(1,2299)	1:102:A:GLN:HB3	1:89:A:VAL:HG13	14	0.28
(1,2279)	1:123:A:LYS:HB2	1:174:A:LEU:HD13	16	0.28
(1,2222)	1:154:A:ALA:HB1	1:159:A:GLU:HB2	2	0.28
(1,2197)	1:68:A:ARG:HB3	1:68:A:ARG:HD3	18	0.28
(1,2190)	1:123:A:LYS:HD3	1:180:A:GLU:HA	7	0.28
(1,2099)	1:66:A:LEU:HG	1:97:A:ILE:HG13	7	0.28
(1,2099)	1:66:A:LEU:HG	1:97:A:ILE:HG13	18	0.28
(1,2075)	1:98:A:LEU:HD13	1:100:A:PHE:HZ	16	0.28
(1,1946)	1:50:A:LYS:HG2	1:60:A:MET:HE3	9	0.28
(1,1936)	1:56:A:LYS:HG2	1:56:A:LYS:HA	12	0.28
(1,1927)	1:19:A:LEU:HD12	1:11:A:GLU:HA	5	0.28
(1,1923)	1:67:A:LYS:HG2	1:44:A:TYR:HD2	15	0.28
(1,1906)	1:86:A:LEU:HD12	1:78:A:PHE:HE2	10	0.28
(1,1888)	1:174:A:LEU:HD21	1:123:A:LYS:HG2	15	0.28
(1,1886)	1:174:A:LEU:HD21	1:174:A:LEU:HD11	15	0.28
(1,1860)	1:62:A:ALA:HB3	1:110:A:PHE:HE2	15	0.28
(1,1811)	1:38:A:VAL:HG11	1:38:A:VAL:HG23	8	0.28
(1,1811)	1:38:A:VAL:HG12	1:38:A:VAL:HG21	11	0.28
(1,1811)	1:38:A:VAL:HG13	1:38:A:VAL:HG21	15	0.28
(1,1794)	1:113:A:LEU:HD23	1:79:A:LEU:HB2	20	0.28
(1,1779)	1:79:A:LEU:H	1:89:A:VAL:HG11	1	0.28
(1,1767)	1:86:A:LEU:HD22	1:86:A:LEU:HB2	5	0.28
(1,1767)	1:86:A:LEU:HD22	1:86:A:LEU:HB2	17	0.28
(1,1767)	1:86:A:LEU:HD21	1:86:A:LEU:HB2	20	0.28
(1,1763)	1:99:A:VAL:HG11	1:101:A:LEU:HG	3	0.28
(1,1752)	1:89:A:VAL:HG13	1:79:A:LEU:HD11	1	0.28
(1,1748)	1:72:A:VAL:HG21	1:95:A:THR:HA	3	0.28
(1,1748)	1:72:A:VAL:HG22	1:95:A:THR:HA	8	0.28
(1,1742)	1:119:A:VAL:HG13	1:110:A:PHE:HE1	19	0.28
(1,1727)	1:31:A:VAL:HG12	1:31:A:VAL:HB	1	0.28
(1,1727)	1:31:A:VAL:HG13	1:31:A:VAL:HB	8	0.28
(1,1727)	1:31:A:VAL:HG12	1:31:A:VAL:HB	15	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1727)	1:31:A:VAL:HG12	1:31:A:VAL:HB	16	0.28
(1,1720)	1:154:A:ALA:HB3	1:77:A:VAL:HG13	1	0.28
(1,1684)	1:32:A:ALA:HB1	1:32:A:ALA:HA	5	0.28
(1,1684)	1:32:A:ALA:HB1	1:32:A:ALA:HA	16	0.28
(1,1680)	1:130:A:VAL:HG23	1:136:A:GLY:HA2	13	0.28
(1,1680)	1:130:A:VAL:HG22	1:136:A:GLY:HA2	14	0.28
(1,1608)	1:60:A:MET:HE2	1:52:A:ILE:HG21	8	0.28
(1,1604)	1:149:A:MET:HE3	1:138:A:PHE:HA	9	0.28
(1,1603)	1:149:A:MET:HE3	1:149:A:MET:HA	8	0.28
(1,1603)	1:149:A:MET:HE2	1:149:A:MET:HA	14	0.28
(1,1603)	1:149:A:MET:HE3	1:149:A:MET:HA	20	0.28
(1,1590)	1:55:A:MET:HE3	1:55:A:MET:HG3	8	0.28
(1,1583)	1:164:A:ILE:HG21	1:129:A:GLU:HG3	11	0.28
(1,1582)	1:164:A:ILE:HG22	1:129:A:GLU:HG2	14	0.28
(1,1580)	1:164:A:ILE:HG23	1:127:A:VAL:HB	6	0.28
(1,1580)	1:164:A:ILE:HG21	1:127:A:VAL:HB	7	0.28
(1,1570)	1:171:A:ILE:HD12	1:122:A:LEU:HB3	7	0.28
(1,1504)	1:163:A:TRP:HE1	1:75:A:GLY:HA2	4	0.28
(1,1504)	1:163:A:TRP:HE1	1:75:A:GLY:HA2	9	0.28
(1,1463)	1:85:A:ARG:H	1:85:A:ARG:HG3	13	0.28
(1,1457)	1:107:A:LYS:H	1:104:A:LYS:HB2	3	0.28
(1,1416)	1:79:A:LEU:H	1:89:A:VAL:HG21	17	0.28
(1,1415)	1:83:A:ALA:H	1:81:A:ASN:HA	1	0.28
(1,1415)	1:83:A:ALA:H	1:81:A:ASN:HA	13	0.28
(1,1415)	1:83:A:ALA:H	1:81:A:ASN:HA	14	0.28
(1,1415)	1:83:A:ALA:H	1:81:A:ASN:HA	16	0.28
(1,1355)	1:15:A:GLN:H	1:14:A:ALA:HB3	10	0.28
(1,1354)	1:15:A:GLN:H	1:15:A:GLN:HB2	17	0.28
(1,1350)	1:51:A:SER:H	1:109:A:ILE:HG22	17	0.28
(1,1311)	1:63:A:LYS:H	1:63:A:LYS:HD2	18	0.28
(1,1289)	1:93:A:LEU:H	1:98:A:LEU:HD22	11	0.28
(1,1275)	1:163:A:TRP:HE1	1:154:A:ALA:HB2	19	0.28
(1,1251)	1:84:A:GLY:H	1:83:A:ALA:HB3	3	0.28
(1,1251)	1:84:A:GLY:H	1:83:A:ALA:HB1	6	0.28
(1,1241)	1:96:A:ASP:H	1:95:A:THR:HG23	16	0.28
(1,1216)	1:118:A:THR:H	1:117:A:SER:HB2	17	0.28
(1,1199)	1:67:A:LYS:H	1:67:A:LYS:HB3	14	0.28
(1,1060)	1:172:A:ASN:H	1:171:A:ILE:HG22	14	0.28
(1,1057)	1:172:A:ASN:H	1:172:A:ASN:HB3	10	0.28
(1,1052)	1:164:A:ILE:H	1:164:A:ILE:HD11	4	0.28
(1,1052)	1:164:A:ILE:H	1:164:A:ILE:HD13	11	0.28
(1,1052)	1:164:A:ILE:H	1:164:A:ILE:HD13	12	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1052)	1:164:A:ILE:H	1:164:A:ILE:HD13	17	0.28
(1,1011)	1:47:A:THR:H	1:46:A:LYS:HD2	17	0.28
(1,992)	1:27:A:VAL:H	1:26:A:ALA:HB2	1	0.28
(1,981)	1:83:A:ALA:H	1:81:A:ASN:HB3	13	0.28
(1,931)	1:121:A:SER:H	1:120:A:ILE:HG23	13	0.28
(1,898)	1:176:A:ARG:H	1:176:A:ARG:HD3	7	0.28
(1,842)	1:110:A:PHE:H	1:109:A:ILE:HD11	5	0.28
(1,835)	1:12:A:ASP:H	1:174:A:LEU:HA	8	0.28
(1,827)	1:86:A:LEU:H	1:86:A:LEU:HD23	7	0.28
(1,823)	1:86:A:LEU:H	1:85:A:ARG:HB2	15	0.28
(1,807)	1:163:A:TRP:H	1:163:A:TRP:HB3	6	0.28
(1,786)	1:87:A:LYS:H	1:87:A:LYS:HB2	11	0.28
(1,782)	1:92:A:VAL:H	1:99:A:VAL:HB	6	0.28
(1,782)	1:92:A:VAL:H	1:99:A:VAL:HB	8	0.28
(1,767)	1:14:A:ALA:H	1:14:A:ALA:HA	5	0.28
(1,767)	1:14:A:ALA:H	1:14:A:ALA:HA	20	0.28
(1,761)	1:174:A:LEU:H	1:174:A:LEU:HD12	12	0.28
(1,701)	1:137:A:LEU:H	1:130:A:VAL:HG22	2	0.28
(1,700)	1:137:A:LEU:H	1:137:A:LEU:HD21	5	0.28
(1,699)	1:137:A:LEU:H	1:137:A:LEU:HD12	6	0.28
(1,699)	1:137:A:LEU:H	1:137:A:LEU:HD12	7	0.28
(1,676)	1:111:A:ALA:H	1:101:A:LEU:HD22	1	0.28
(1,676)	1:111:A:ALA:H	1:101:A:LEU:HD23	2	0.28
(1,611)	1:81:A:ASN:H	1:86:A:LEU:HD21	9	0.28
(1,611)	1:81:A:ASN:H	1:86:A:LEU:HD23	15	0.28
(1,587)	1:185:A:GLU:H	1:185:A:GLU:HB2	13	0.28
(1,548)	1:61:A:PHE:H	1:60:A:MET:HB2	18	0.28
(1,516)	1:153:A:HIS:HD2	1:133:A:GLU:HB3	13	0.28
(1,506)	1:35:A:GLU:HA	1:34:A:TYR:HD2	1	0.28
(1,506)	1:35:A:GLU:HA	1:34:A:TYR:HD1	3	0.28
(1,505)	1:37:A:LYS:HE2	1:34:A:TYR:HD1	9	0.28
(1,495)	1:10:A:GLN:HG3	1:10:A:GLN:HB3	12	0.28
(1,457)	1:92:A:VAL:H	1:98:A:LEU:HD22	10	0.28
(1,437)	1:37:A:LYS:HB3	1:34:A:TYR:HE2	3	0.28
(1,393)	1:31:A:VAL:HG11	1:32:A:ALA:HA	2	0.28
(1,393)	1:32:A:ALA:HA	1:31:A:VAL:HG22	4	0.28
(1,393)	1:32:A:ALA:HA	1:31:A:VAL:HG23	20	0.28
(1,390)	1:170:A:THR:HA	1:171:A:ILE:HD13	10	0.28
(1,376)	1:30:A:LYS:HB3	1:31:A:VAL:HA	10	0.28
(1,367)	1:121:A:SER:HB2	1:185:A:GLU:HA	8	0.28
(1,363)	1:37:A:LYS:HA	1:37:A:LYS:HE3	13	0.28
(1,346)	1:159:A:GLU:HB3	1:162:A:SER:HB2	18	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,304)	1:25:A:GLY:HA2	1:27:A:VAL:HB	12	0.28
(1,299)	1:85:A:ARG:HD3	1:84:A:GLY:HA2	12	0.28
(1,299)	1:85:A:ARG:HD3	1:84:A:GLY:HA2	19	0.28
(1,291)	1:54:A:ARG:HD2	1:54:A:ARG:HB2	4	0.28
(1,291)	1:54:A:ARG:HD2	1:54:A:ARG:HB2	13	0.28
(1,278)	1:30:A:LYS:HG2	1:30:A:LYS:HE2	15	0.28
(1,257)	1:103:A:GLU:HG2	1:106:A:GLN:HA	1	0.28
(1,257)	1:103:A:GLU:HG2	1:106:A:GLN:HA	17	0.28
(1,246)	1:87:A:LYS:HB2	1:79:A:LEU:HD21	16	0.28
(1,244)	1:87:A:LYS:HG2	1:87:A:LYS:HB3	1	0.28
(1,244)	1:87:A:LYS:HG2	1:87:A:LYS:HB3	2	0.28
(1,244)	1:87:A:LYS:HG2	1:87:A:LYS:HB3	4	0.28
(1,244)	1:87:A:LYS:HG2	1:87:A:LYS:HB3	5	0.28
(1,244)	1:87:A:LYS:HG2	1:87:A:LYS:HB3	6	0.28
(1,244)	1:87:A:LYS:HG2	1:87:A:LYS:HB3	7	0.28
(1,244)	1:87:A:LYS:HG2	1:87:A:LYS:HB3	8	0.28
(1,244)	1:87:A:LYS:HG2	1:87:A:LYS:HB3	9	0.28
(1,244)	1:87:A:LYS:HG2	1:87:A:LYS:HB3	13	0.28
(1,244)	1:87:A:LYS:HG2	1:87:A:LYS:HB3	14	0.28
(1,244)	1:87:A:LYS:HG2	1:87:A:LYS:HB3	16	0.28
(1,244)	1:87:A:LYS:HG2	1:87:A:LYS:HB3	18	0.28
(1,243)	1:4:A:LYS:HB2	1:4:A:LYS:HE3	3	0.28
(1,243)	1:4:A:LYS:HB2	1:4:A:LYS:HE3	5	0.28
(1,243)	1:4:A:LYS:HB2	1:4:A:LYS:HE3	10	0.28
(1,243)	1:4:A:LYS:HB2	1:4:A:LYS:HE3	17	0.28
(1,176)	1:124:A:LYS:HG2	1:124:A:LYS:HE3	10	0.28
(1,176)	1:124:A:LYS:HG2	1:124:A:LYS:HE2	19	0.28
(1,168)	1:107:A:LYS:HG2	1:106:A:GLN:HG3	1	0.28
(1,161)	1:71:A:LEU:HD12	1:93:A:LEU:H	1	0.28
(1,160)	1:71:A:LEU:HD13	1:74:A:ASP:HA	14	0.28
(1,154)	1:71:A:LEU:HD13	1:74:A:ASP:HB2	18	0.28
(1,149)	1:30:A:LYS:HG2	1:30:A:LYS:HB2	3	0.28
(1,149)	1:30:A:LYS:HG2	1:30:A:LYS:HB2	5	0.28
(1,149)	1:30:A:LYS:HG2	1:30:A:LYS:HB2	15	0.28
(1,149)	1:30:A:LYS:HG2	1:30:A:LYS:HB2	16	0.28
(1,144)	1:30:A:LYS:HG3	1:30:A:LYS:HD2	14	0.28
(1,142)	1:56:A:LYS:HG2	1:56:A:LYS:HD2	15	0.28
(1,125)	1:62:A:ALA:HB2	1:64:A:GLU:HG2	14	0.28
(1,123)	1:150:A:VAL:HG23	1:79:A:LEU:HD21	1	0.28
(1,120)	1:122:A:LEU:HD23	1:122:A:LEU:HB3	15	0.28
(1,92)	1:17:A:LEU:H	1:16:A:SER:HB3	10	0.28
(1,79)	1:116:A:LYS:H	1:116:A:LYS:HD2	6	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,56)	1:106:A:GLN:H	1:106:A:GLN:HG3	1	0.28
(1,56)	1:106:A:GLN:H	1:106:A:GLN:HG3	5	0.28
(1,56)	1:106:A:GLN:H	1:106:A:GLN:HG3	7	0.28
(1,56)	1:106:A:GLN:H	1:106:A:GLN:HG3	13	0.28
(1,48)	1:18:A:SER:H	1:18:A:SER:HB2	18	0.28
(1,44)	1:117:A:SER:H	1:116:A:LYS:HD3	3	0.28
(1,44)	1:117:A:SER:H	1:116:A:LYS:HD3	16	0.28
(1,37)	1:169:A:ASP:H	1:167:A:ILE:HD13	5	0.28
(1,37)	1:169:A:ASP:H	1:167:A:ILE:HD12	12	0.28
(1,37)	1:169:A:ASP:H	1:167:A:ILE:HD12	19	0.28
(1,31)	1:139:A:LEU:H	1:149:A:MET:HG3	4	0.28
(1,31)	1:139:A:LEU:H	1:149:A:MET:HG3	8	0.28
(1,31)	1:139:A:LEU:H	1:149:A:MET:HG3	9	0.28
(1,31)	1:139:A:LEU:H	1:149:A:MET:HG3	17	0.28
(1,29)	1:8:A:VAL:H	1:8:A:VAL:HG21	8	0.28
(1,23)	1:22:A:ASP:H	1:21:A:LYS:HG3	20	0.28
(1,17)	1:14:A:ALA:H	1:19:A:LEU:HB3	2	0.28
(1,17)	1:14:A:ALA:H	1:19:A:LEU:HB3	5	0.28
(2,20)	1:154:A:ALA:H	1:135:A:LYS:O	12	0.27
(1,3529)	1:78:A:PHE:HE1	1:78:A:PHE:HB2	16	0.27
(1,3516)	1:63:A:LYS:HE3	1:44:A:TYR:HE2	13	0.27
(1,3514)	1:35:A:GLU:HA	1:34:A:TYR:HE1	3	0.27
(1,3514)	1:35:A:GLU:HA	1:34:A:TYR:HE1	4	0.27
(1,3514)	1:35:A:GLU:HA	1:34:A:TYR:HE1	5	0.27
(1,3514)	1:35:A:GLU:HA	1:34:A:TYR:HE1	11	0.27
(1,3514)	1:35:A:GLU:HA	1:34:A:TYR:HE1	12	0.27
(1,3514)	1:35:A:GLU:HA	1:34:A:TYR:HE1	15	0.27
(1,3514)	1:35:A:GLU:HA	1:34:A:TYR:HE1	17	0.27
(1,3488)	1:149:A:MET:HE1	1:138:A:PHE:HE2	8	0.27
(1,3453)	1:67:A:LYS:HB3	1:44:A:TYR:HD2	16	0.27
(1,3450)	1:61:A:PHE:HD2	1:55:A:MET:HG2	11	0.27
(1,3436)	1:78:A:PHE:HE2	1:78:A:PHE:HD2	1	0.27
(1,3436)	1:78:A:PHE:HE1	1:78:A:PHE:HD1	2	0.27
(1,3436)	1:78:A:PHE:HE2	1:78:A:PHE:HD2	3	0.27
(1,3436)	1:78:A:PHE:HE2	1:78:A:PHE:HD2	4	0.27
(1,3436)	1:78:A:PHE:HE2	1:78:A:PHE:HD2	6	0.27
(1,3436)	1:78:A:PHE:HE2	1:78:A:PHE:HD2	7	0.27
(1,3436)	1:78:A:PHE:HE2	1:78:A:PHE:HD2	8	0.27
(1,3436)	1:78:A:PHE:HE2	1:78:A:PHE:HD2	9	0.27
(1,3436)	1:78:A:PHE:HE2	1:78:A:PHE:HD2	10	0.27
(1,3436)	1:78:A:PHE:HE2	1:78:A:PHE:HD2	11	0.27
(1,3436)	1:78:A:PHE:HE2	1:78:A:PHE:HD2	14	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3436)	1:78:A:PHE:HE2	1:78:A:PHE:HD2	15	0.27
(1,3436)	1:78:A:PHE:HE2	1:78:A:PHE:HD2	16	0.27
(1,3436)	1:78:A:PHE:HE2	1:78:A:PHE:HD2	17	0.27
(1,3436)	1:78:A:PHE:HE2	1:78:A:PHE:HD2	19	0.27
(1,3436)	1:78:A:PHE:HE2	1:78:A:PHE:HD2	20	0.27
(1,3407)	1:55:A:MET:HE1	1:119:A:VAL:HA	6	0.27
(1,3391)	1:11:A:GLU:HB3	1:12:A:ASP:HB2	13	0.27
(1,3383)	1:42:A:GLU:HG3	1:38:A:VAL:HG22	8	0.27
(1,3370)	1:174:A:LEU:HD22	1:171:A:ILE:HA	12	0.27
(1,3276)	1:111:A:ALA:HB3	1:109:A:ILE:H	12	0.27
(1,3272)	1:98:A:LEU:H	1:97:A:ILE:HG21	2	0.27
(1,3272)	1:98:A:LEU:H	1:97:A:ILE:HG22	9	0.27
(1,3238)	1:91:A:ALA:HA	1:98:A:LEU:HD23	6	0.27
(1,3238)	1:91:A:ALA:HA	1:98:A:LEU:HD23	14	0.27
(1,3236)	1:98:A:LEU:HD22	1:139:A:LEU:HB2	5	0.27
(1,3236)	1:98:A:LEU:HD23	1:139:A:LEU:HB2	20	0.27
(1,3231)	1:86:A:LEU:HD21	1:153:A:HIS:HA	3	0.27
(1,3231)	1:86:A:LEU:HD21	1:153:A:HIS:HA	7	0.27
(1,3207)	1:166:A:ILE:HG23	1:167:A:ILE:H	6	0.27
(1,3207)	1:166:A:ILE:HG23	1:167:A:ILE:H	7	0.27
(1,3202)	1:152:A:VAL:HG21	1:137:A:LEU:HG	7	0.27
(1,3159)	1:149:A:MET:HB3	1:140:A:ILE:HD12	4	0.27
(1,3159)	1:149:A:MET:HB3	1:140:A:ILE:HD13	5	0.27
(1,3130)	1:4:A:LYS:HA	1:4:A:LYS:HD3	13	0.27
(1,3046)	1:54:A:ARG:HA	1:59:A:GLN:HG2	19	0.27
(1,3046)	1:54:A:ARG:HA	1:59:A:GLN:HG2	20	0.27
(1,3006)	1:22:A:ASP:HA	1:15:A:GLN:HB2	10	0.27
(1,2988)	1:43:A:ILE:HD11	1:40:A:LEU:HA	3	0.27
(1,2988)	1:43:A:ILE:HD11	1:40:A:LEU:HA	6	0.27
(1,2988)	1:43:A:ILE:HD12	1:40:A:LEU:HA	12	0.27
(1,2983)	1:36:A:LYS:HD3	1:36:A:LYS:HA	16	0.27
(1,2956)	1:41:A:ASN:HB2	1:44:A:TYR:HD1	2	0.27
(1,2955)	1:145:A:THR:HG22	1:146:A:ASP:HB3	12	0.27
(1,2955)	1:145:A:THR:HG23	1:146:A:ASP:HB3	19	0.27
(1,2950)	1:60:A:MET:HG2	1:60:A:MET:HE2	6	0.27
(1,2950)	1:60:A:MET:HG2	1:60:A:MET:HE3	10	0.27
(1,2924)	1:166:A:ILE:HD13	1:163:A:TRP:HA	7	0.27
(1,2903)	1:169:A:ASP:H	1:165:A:GLN:HG2	2	0.27
(1,2903)	1:169:A:ASP:H	1:165:A:GLN:HG2	14	0.27
(1,2903)	1:169:A:ASP:H	1:165:A:GLN:HG2	20	0.27
(1,2899)	1:142:A:MET:HB3	1:126:A:ILE:HG12	19	0.27
(1,2873)	1:170:A:THR:HB	1:167:A:ILE:HG23	5	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2873)	1:170:A:THR:HB	1:167:A:ILE:HG23	8	0.27
(1,2843)	1:31:A:VAL:HA	1:34:A:TYR:HE1	3	0.27
(1,2826)	1:147:A:PRO:HA	1:140:A:ILE:HG23	1	0.27
(1,2803)	1:37:A:LYS:HA	1:40:A:LEU:HD11	16	0.27
(1,2768)	1:159:A:GLU:HG2	1:159:A:GLU:HA	17	0.27
(1,2757)	1:163:A:TRP:HA	1:163:A:TRP:HZ2	18	0.27
(1,2739)	1:123:A:LYS:HD3	1:123:A:LYS:HA	6	0.27
(1,2727)	1:139:A:LEU:HD23	1:127:A:VAL:HA	2	0.27
(1,2727)	1:139:A:LEU:HD21	1:127:A:VAL:HA	9	0.27
(1,2713)	1:66:A:LEU:HD22	1:66:A:LEU:HA	4	0.27
(1,2713)	1:66:A:LEU:HD23	1:66:A:LEU:HA	8	0.27
(1,2713)	1:66:A:LEU:HD22	1:66:A:LEU:HA	13	0.27
(1,2713)	1:66:A:LEU:HD22	1:66:A:LEU:HA	18	0.27
(1,2708)	1:15:A:GLN:HB3	1:15:A:GLN:HA	14	0.27
(1,2677)	1:144:A:MET:HG2	1:144:A:MET:HA	16	0.27
(1,2661)	1:101:A:LEU:HD13	1:108:A:TYR:HA	8	0.27
(1,2661)	1:101:A:LEU:HD13	1:108:A:TYR:HA	13	0.27
(1,2631)	1:80:A:LYS:HA	1:86:A:LEU:HD13	11	0.27
(1,2494)	1:126:A:ILE:HD12	1:128:A:ARG:HD3	13	0.27
(1,2494)	1:126:A:ILE:HD11	1:128:A:ARG:HD3	14	0.27
(1,2494)	1:126:A:ILE:HD13	1:128:A:ARG:HD3	16	0.27
(1,2494)	1:126:A:ILE:HD12	1:128:A:ARG:HD3	20	0.27
(1,2493)	1:128:A:ARG:HB2	1:128:A:ARG:HD3	3	0.27
(1,2493)	1:128:A:ARG:HB2	1:128:A:ARG:HD3	12	0.27
(1,2468)	1:80:A:LYS:HE3	1:80:A:LYS:HD3	1	0.27
(1,2468)	1:80:A:LYS:HE3	1:80:A:LYS:HD3	3	0.27
(1,2468)	1:80:A:LYS:HE3	1:80:A:LYS:HD3	4	0.27
(1,2468)	1:80:A:LYS:HE3	1:80:A:LYS:HD3	5	0.27
(1,2468)	1:80:A:LYS:HE3	1:80:A:LYS:HD3	6	0.27
(1,2468)	1:80:A:LYS:HE3	1:80:A:LYS:HD3	7	0.27
(1,2468)	1:80:A:LYS:HE3	1:80:A:LYS:HD3	8	0.27
(1,2468)	1:80:A:LYS:HE3	1:80:A:LYS:HD3	9	0.27
(1,2468)	1:80:A:LYS:HE3	1:80:A:LYS:HD3	10	0.27
(1,2468)	1:80:A:LYS:HE3	1:80:A:LYS:HD3	11	0.27
(1,2468)	1:80:A:LYS:HE3	1:80:A:LYS:HD3	15	0.27
(1,2468)	1:80:A:LYS:HE3	1:80:A:LYS:HD3	16	0.27
(1,2468)	1:80:A:LYS:HE3	1:80:A:LYS:HD3	18	0.27
(1,2468)	1:80:A:LYS:HE3	1:80:A:LYS:HD3	20	0.27
(1,2464)	1:46:A:LYS:HE3	1:43:A:ILE:HG12	11	0.27
(1,2445)	1:166:A:ILE:HD12	1:169:A:ASP:HB2	5	0.27
(1,2445)	1:166:A:ILE:HD12	1:169:A:ASP:HB2	7	0.27
(1,2442)	1:146:A:ASP:HB3	1:147:A:PRO:HD3	10	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2432)	1:63:A:LYS:HE3	1:49:A:SER:HA	10	0.27
(1,2407)	1:38:A:VAL:HG13	1:41:A:ASN:HB3	1	0.27
(1,2313)	1:168:A:GLN:HG2	1:164:A:ILE:HG21	15	0.27
(1,2299)	1:102:A:GLN:HB3	1:89:A:VAL:HG13	6	0.27
(1,2299)	1:102:A:GLN:HB3	1:89:A:VAL:HG11	8	0.27
(1,2299)	1:102:A:GLN:HB3	1:89:A:VAL:HG11	19	0.27
(1,2292)	1:4:A:LYS:HB2	1:9:A:GLU:HA	9	0.27
(1,2279)	1:123:A:LYS:HB2	1:174:A:LEU:HD13	6	0.27
(1,2278)	1:123:A:LYS:HB2	1:174:A:LEU:HD21	14	0.27
(1,2271)	1:144:A:MET:HG2	1:144:A:MET:HB2	1	0.27
(1,2266)	1:149:A:MET:HB3	1:138:A:PHE:HA	3	0.27
(1,2192)	1:15:A:GLN:HB2	1:18:A:SER:HA	19	0.27
(1,2189)	1:171:A:ILE:HG22	1:123:A:LYS:HD3	17	0.27
(1,2188)	1:98:A:LEU:HD23	1:93:A:LEU:HD21	13	0.27
(1,2185)	1:93:A:LEU:HD22	1:170:A:THR:HB	19	0.27
(1,2165)	1:67:A:LYS:HD2	1:67:A:LYS:HA	3	0.27
(1,2135)	1:126:A:ILE:HG13	1:140:A:ILE:HD13	3	0.27
(1,2133)	1:68:A:ARG:HG2	1:67:A:LYS:HD2	3	0.27
(1,2099)	1:66:A:LEU:HG	1:97:A:ILE:HG13	12	0.27
(1,2099)	1:66:A:LEU:HG	1:97:A:ILE:HG13	19	0.27
(1,2076)	1:71:A:LEU:HG	1:39:A:ARG:HD3	7	0.27
(1,2049)	1:113:A:LEU:HD13	1:113:A:LEU:HA	1	0.27
(1,2049)	1:113:A:LEU:HD13	1:113:A:LEU:HA	10	0.27
(1,2049)	1:113:A:LEU:HD11	1:113:A:LEU:HA	16	0.27
(1,2027)	1:124:A:LYS:HG2	1:123:A:LYS:HB3	2	0.27
(1,2017)	1:167:A:ILE:HG21	1:93:A:LEU:HD13	9	0.27
(1,2012)	1:63:A:LYS:HG3	1:44:A:TYR:HE2	10	0.27
(1,1959)	1:66:A:LEU:HD12	1:66:A:LEU:HA	11	0.27
(1,1926)	1:19:A:LEU:HD13	1:18:A:SER:HB2	12	0.27
(1,1923)	1:67:A:LYS:HG2	1:44:A:TYR:HD2	1	0.27
(1,1923)	1:67:A:LYS:HG2	1:44:A:TYR:HD2	18	0.27
(1,1906)	1:86:A:LEU:HD12	1:78:A:PHE:HE2	16	0.27
(1,1906)	1:86:A:LEU:HD11	1:78:A:PHE:HE2	19	0.27
(1,1897)	1:86:A:LEU:HD22	1:86:A:LEU:HD11	10	0.27
(1,1891)	1:174:A:LEU:HD23	1:123:A:LYS:HE2	10	0.27
(1,1860)	1:62:A:ALA:HB1	1:110:A:PHE:HE2	3	0.27
(1,1860)	1:62:A:ALA:HB3	1:110:A:PHE:HE2	13	0.27
(1,1860)	1:62:A:ALA:HB1	1:110:A:PHE:HE2	20	0.27
(1,1835)	1:173:A:THR:HG23	1:176:A:ARG:HD3	3	0.27
(1,1767)	1:86:A:LEU:HD23	1:86:A:LEU:HB2	1	0.27
(1,1767)	1:86:A:LEU:HD22	1:86:A:LEU:HB2	11	0.27
(1,1767)	1:86:A:LEU:HD23	1:86:A:LEU:HB2	12	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1763)	1:99:A:VAL:HG12	1:101:A:LEU:HG	10	0.27
(1,1763)	1:99:A:VAL:HG11	1:101:A:LEU:HG	11	0.27
(1,1752)	1:89:A:VAL:HG13	1:79:A:LEU:HD12	11	0.27
(1,1752)	1:89:A:VAL:HG12	1:79:A:LEU:HD11	14	0.27
(1,1741)	1:119:A:VAL:HG12	1:110:A:PHE:HD1	10	0.27
(1,1727)	1:31:A:VAL:HG12	1:31:A:VAL:HB	5	0.27
(1,1720)	1:154:A:ALA:HB1	1:77:A:VAL:HG11	15	0.27
(1,1684)	1:32:A:ALA:HB2	1:32:A:ALA:HA	10	0.27
(1,1643)	1:52:A:ILE:HG21	1:52:A:ILE:HB	20	0.27
(1,1620)	1:182:A:ILE:HG21	1:181:A:GLY:HA2	3	0.27
(1,1608)	1:60:A:MET:HE2	1:52:A:ILE:HG23	2	0.27
(1,1608)	1:60:A:MET:HE3	1:52:A:ILE:HG23	10	0.27
(1,1608)	1:60:A:MET:HE1	1:52:A:ILE:HG22	14	0.27
(1,1603)	1:149:A:MET:HE1	1:149:A:MET:HA	5	0.27
(1,1603)	1:149:A:MET:HE3	1:149:A:MET:HA	13	0.27
(1,1603)	1:149:A:MET:HE3	1:149:A:MET:HA	16	0.27
(1,1583)	1:164:A:ILE:HG23	1:129:A:GLU:HG3	5	0.27
(1,1583)	1:164:A:ILE:HG22	1:129:A:GLU:HG3	6	0.27
(1,1582)	1:164:A:ILE:HG22	1:129:A:GLU:HG2	16	0.27
(1,1580)	1:164:A:ILE:HG22	1:127:A:VAL:HB	1	0.27
(1,1580)	1:164:A:ILE:HG22	1:127:A:VAL:HB	11	0.27
(1,1579)	1:182:A:ILE:HD12	1:185:A:GLU:HA	6	0.27
(1,1560)	1:97:A:ILE:HD13	1:69:A:LYS:HE3	16	0.27
(1,1548)	1:120:A:ILE:HD13	1:139:A:LEU:HB2	11	0.27
(1,1534)	1:140:A:ILE:HD11	1:140:A:ILE:HG13	3	0.27
(1,1534)	1:140:A:ILE:HD13	1:140:A:ILE:HG13	8	0.27
(1,1534)	1:140:A:ILE:HD11	1:140:A:ILE:HG13	17	0.27
(1,1525)	1:166:A:ILE:HD11	1:169:A:ASP:HB3	4	0.27
(1,1525)	1:166:A:ILE:HD11	1:169:A:ASP:HB3	17	0.27
(1,1525)	1:166:A:ILE:HD12	1:169:A:ASP:HB3	20	0.27
(1,1524)	1:166:A:ILE:HD13	1:73:A:ARG:HD2	20	0.27
(1,1518)	1:109:A:ILE:HD13	1:102:A:GLN:HB2	18	0.27
(1,1476)	1:142:A:MET:H	1:142:A:MET:HG3	7	0.27
(1,1457)	1:107:A:LYS:H	1:104:A:LYS:HB2	4	0.27
(1,1415)	1:83:A:ALA:H	1:81:A:ASN:HA	18	0.27
(1,1415)	1:83:A:ALA:H	1:81:A:ASN:HA	20	0.27
(1,1410)	1:172:A:ASN:HD22	1:168:A:GLN:HG3	8	0.27
(1,1400)	1:69:A:LYS:H	1:68:A:ARG:HB3	15	0.27
(1,1372)	1:135:A:LYS:H	1:136:A:GLY:H	17	0.27
(1,1363)	1:90:A:GLN:HE22	1:90:A:GLN:HG3	15	0.27
(1,1350)	1:51:A:SER:H	1:109:A:ILE:HG23	5	0.27
(1,1350)	1:51:A:SER:H	1:109:A:ILE:HG21	6	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1350)	1:51:A:SER:H	1:109:A:ILE:HG22	15	0.27
(1,1350)	1:51:A:SER:H	1:109:A:ILE:HG21	16	0.27
(1,1289)	1:93:A:LEU:H	1:98:A:LEU:HD23	14	0.27
(1,1282)	1:22:A:ASP:H	1:22:A:ASP:HB2	9	0.27
(1,1282)	1:22:A:ASP:H	1:22:A:ASP:HB2	11	0.27
(1,1268)	1:153:A:HIS:H	1:152:A:VAL:HG13	2	0.27
(1,1251)	1:84:A:GLY:H	1:83:A:ALA:HB2	5	0.27
(1,1251)	1:84:A:GLY:H	1:83:A:ALA:HB3	7	0.27
(1,1251)	1:84:A:GLY:H	1:83:A:ALA:HB3	14	0.27
(1,1241)	1:96:A:ASP:H	1:95:A:THR:HG22	7	0.27
(1,1241)	1:96:A:ASP:H	1:95:A:THR:HG22	17	0.27
(1,1199)	1:67:A:LYS:H	1:67:A:LYS:HB3	2	0.27
(1,1117)	1:65:A:ASP:H	1:64:A:GLU:HB2	12	0.27
(1,1060)	1:172:A:ASN:H	1:171:A:ILE:HG21	3	0.27
(1,1060)	1:172:A:ASN:H	1:171:A:ILE:HG21	11	0.27
(1,1057)	1:172:A:ASN:H	1:172:A:ASN:HB3	6	0.27
(1,1057)	1:172:A:ASN:H	1:172:A:ASN:HB3	18	0.27
(1,1052)	1:164:A:ILE:H	1:164:A:ILE:HD12	19	0.27
(1,1011)	1:47:A:THR:H	1:46:A:LYS:HD2	7	0.27
(1,993)	1:27:A:VAL:H	1:27:A:VAL:HG11	10	0.27
(1,992)	1:27:A:VAL:H	1:26:A:ALA:HB2	13	0.27
(1,992)	1:27:A:VAL:H	1:26:A:ALA:HB2	18	0.27
(1,950)	1:89:A:VAL:H	1:88:A:GLU:HG3	3	0.27
(1,950)	1:89:A:VAL:H	1:88:A:GLU:HG3	17	0.27
(1,950)	1:89:A:VAL:H	1:88:A:GLU:HG3	19	0.27
(1,912)	1:50:A:LYS:H	1:50:A:LYS:HB3	2	0.27
(1,897)	1:176:A:ARG:H	1:176:A:ARG:HG3	10	0.27
(1,870)	1:38:A:VAL:H	1:38:A:VAL:HG11	13	0.27
(1,835)	1:12:A:ASP:H	1:174:A:LEU:HA	5	0.27
(1,825)	1:86:A:LEU:H	1:86:A:LEU:HB3	11	0.27
(1,825)	1:86:A:LEU:H	1:86:A:LEU:HB3	20	0.27
(1,786)	1:87:A:LYS:H	1:87:A:LYS:HB2	8	0.27
(1,782)	1:92:A:VAL:H	1:99:A:VAL:HB	1	0.27
(1,782)	1:92:A:VAL:H	1:99:A:VAL:HB	15	0.27
(1,782)	1:92:A:VAL:H	1:99:A:VAL:HB	17	0.27
(1,782)	1:92:A:VAL:H	1:99:A:VAL:HB	19	0.27
(1,782)	1:92:A:VAL:H	1:99:A:VAL:HB	20	0.27
(1,777)	1:92:A:VAL:H	1:100:A:PHE:HD1	13	0.27
(1,777)	1:92:A:VAL:H	1:100:A:PHE:HD1	16	0.27
(1,761)	1:174:A:LEU:H	1:174:A:LEU:HD11	7	0.27
(1,676)	1:111:A:ALA:H	1:101:A:LEU:HD22	17	0.27
(1,676)	1:111:A:ALA:H	1:101:A:LEU:HD21	18	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,601)	1:55:A:MET:H	1:55:A:MET:HB2	16	0.27
(1,587)	1:185:A:GLU:H	1:185:A:GLU:HB2	14	0.27
(1,564)	1:104:A:LYS:H	1:103:A:GLU:HG3	18	0.27
(1,516)	1:153:A:HIS:HD2	1:133:A:GLU:HB3	10	0.27
(1,506)	1:35:A:GLU:HA	1:34:A:TYR:HD1	10	0.27
(1,506)	1:35:A:GLU:HA	1:34:A:TYR:HD1	16	0.27
(1,505)	1:37:A:LYS:HE2	1:34:A:TYR:HD1	14	0.27
(1,505)	1:37:A:LYS:HE2	1:34:A:TYR:HD2	20	0.27
(1,489)	1:70:A:LYS:HB3	1:36:A:LYS:HE2	8	0.27
(1,484)	1:67:A:LYS:HD2	1:64:A:GLU:HG2	3	0.27
(1,477)	1:50:A:LYS:HD2	1:50:A:LYS:HE3	9	0.27
(1,477)	1:50:A:LYS:HD2	1:50:A:LYS:HE3	20	0.27
(1,476)	1:37:A:LYS:HG3	1:68:A:ARG:HA	8	0.27
(1,449)	1:31:A:VAL:HG12	1:30:A:LYS:HD3	3	0.27
(1,449)	1:31:A:VAL:HG12	1:30:A:LYS:HD3	7	0.27
(1,440)	1:36:A:LYS:HE2	1:36:A:LYS:HD3	6	0.27
(1,439)	1:10:A:GLN:HB3	1:174:A:LEU:HD12	6	0.27
(1,415)	1:18:A:SER:HA	1:18:A:SER:HB3	7	0.27
(1,393)	1:32:A:ALA:HA	1:31:A:VAL:HG23	5	0.27
(1,393)	1:32:A:ALA:HA	1:31:A:VAL:HG22	8	0.27
(1,393)	1:31:A:VAL:HG11	1:32:A:ALA:HA	13	0.27
(1,393)	1:32:A:ALA:HA	1:31:A:VAL:HG21	15	0.27
(1,390)	1:170:A:THR:HA	1:72:A:VAL:HG11	8	0.27
(1,367)	1:121:A:SER:HB2	1:185:A:GLU:HA	7	0.27
(1,365)	1:76:A:SER:HB3	1:78:A:PHE:HD1	10	0.27
(1,365)	1:76:A:SER:HB2	1:78:A:PHE:HD1	20	0.27
(1,363)	1:37:A:LYS:HA	1:37:A:LYS:HE3	2	0.27
(1,349)	1:8:A:VAL:HA	1:8:A:VAL:HG11	4	0.27
(1,349)	1:8:A:VAL:HG21	1:8:A:VAL:HA	5	0.27
(1,349)	1:8:A:VAL:HG23	1:8:A:VAL:HA	6	0.27
(1,347)	1:162:A:SER:HB3	1:166:A:ILE:HD12	18	0.27
(1,339)	1:157:A:LYS:HA	1:134:A:GLU:HB2	3	0.27
(1,339)	1:157:A:LYS:HA	1:134:A:GLU:HB2	6	0.27
(1,319)	1:22:A:ASP:HA	1:23:A:VAL:HG12	6	0.27
(1,296)	1:19:A:LEU:HB2	1:15:A:GLN:HA	3	0.27
(1,296)	1:19:A:LEU:HB2	1:15:A:GLN:HA	19	0.27
(1,294)	1:22:A:ASP:HB2	1:21:A:LYS:HA	19	0.27
(1,291)	1:54:A:ARG:HD2	1:54:A:ARG:HB2	17	0.27
(1,278)	1:30:A:LYS:HG2	1:30:A:LYS:HE2	3	0.27
(1,278)	1:30:A:LYS:HG2	1:30:A:LYS:HE2	13	0.27
(1,273)	1:50:A:LYS:HG3	1:50:A:LYS:HE3	17	0.27
(1,271)	1:87:A:LYS:HE2	1:111:A:ALA:HB1	18	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,269)	1:5:A:ASP:HB2	1:8:A:VAL:HG22	11	0.27
(1,257)	1:103:A:GLU:HG2	1:106:A:GLN:HA	8	0.27
(1,257)	1:103:A:GLU:HG2	1:106:A:GLN:HA	13	0.27
(1,257)	1:103:A:GLU:HG2	1:106:A:GLN:HA	15	0.27
(1,246)	1:87:A:LYS:HB2	1:79:A:LEU:HD23	15	0.27
(1,244)	1:87:A:LYS:HG2	1:87:A:LYS:HB3	3	0.27
(1,244)	1:87:A:LYS:HG2	1:87:A:LYS:HB3	10	0.27
(1,244)	1:87:A:LYS:HG2	1:87:A:LYS:HB3	11	0.27
(1,244)	1:87:A:LYS:HG2	1:87:A:LYS:HB3	15	0.27
(1,244)	1:87:A:LYS:HG2	1:87:A:LYS:HB3	20	0.27
(1,243)	1:4:A:LYS:HB2	1:4:A:LYS:HE3	1	0.27
(1,214)	1:15:A:GLN:HB2	1:15:A:GLN:HG3	19	0.27
(1,197)	1:68:A:ARG:HG2	1:67:A:LYS:HE2	8	0.27
(1,197)	1:68:A:ARG:HG2	1:67:A:LYS:HE2	10	0.27
(1,190)	1:126:A:ILE:HD11	1:128:A:ARG:HG3	8	0.27
(1,190)	1:126:A:ILE:HD13	1:128:A:ARG:HG3	11	0.27
(1,190)	1:126:A:ILE:HD11	1:128:A:ARG:HG3	12	0.27
(1,190)	1:126:A:ILE:HD13	1:128:A:ARG:HG3	15	0.27
(1,176)	1:124:A:LYS:HG2	1:124:A:LYS:HE3	15	0.27
(1,168)	1:107:A:LYS:HG2	1:106:A:GLN:HG3	7	0.27
(1,168)	1:107:A:LYS:HG2	1:106:A:GLN:HG3	10	0.27
(1,168)	1:107:A:LYS:HG2	1:106:A:GLN:HG3	18	0.27
(1,149)	1:30:A:LYS:HG2	1:30:A:LYS:HB2	8	0.27
(1,149)	1:30:A:LYS:HG2	1:30:A:LYS:HB2	9	0.27
(1,149)	1:30:A:LYS:HG2	1:30:A:LYS:HB2	11	0.27
(1,149)	1:30:A:LYS:HG2	1:30:A:LYS:HB2	13	0.27
(1,149)	1:30:A:LYS:HG2	1:30:A:LYS:HB2	17	0.27
(1,140)	1:70:A:LYS:HG3	1:70:A:LYS:HD2	4	0.27
(1,140)	1:70:A:LYS:HG3	1:70:A:LYS:HD3	6	0.27
(1,140)	1:70:A:LYS:HG3	1:70:A:LYS:HD2	9	0.27
(1,120)	1:122:A:LEU:HD22	1:122:A:LEU:HB3	7	0.27
(1,120)	1:122:A:LEU:HD22	1:122:A:LEU:HB3	17	0.27
(1,37)	1:169:A:ASP:H	1:167:A:ILE:HD13	2	0.27
(1,35)	1:119:A:VAL:H	1:120:A:ILE:HG13	11	0.27
(1,31)	1:139:A:LEU:H	1:149:A:MET:HG3	1	0.27
(1,31)	1:139:A:LEU:H	1:149:A:MET:HG3	2	0.27
(1,31)	1:139:A:LEU:H	1:149:A:MET:HG3	3	0.27
(1,31)	1:139:A:LEU:H	1:149:A:MET:HG3	6	0.27
(1,30)	1:139:A:LEU:H	1:139:A:LEU:HD23	2	0.27
(1,30)	1:139:A:LEU:H	1:139:A:LEU:HD22	17	0.27
(1,29)	1:8:A:VAL:H	1:8:A:VAL:HG21	7	0.27
(1,23)	1:22:A:ASP:H	1:21:A:LYS:HG2	11	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,20)	1:154:A:ALA:H	1:135:A:LYS:O	18	0.26
(2,13)	1:101:A:LEU:H	1:90:A:GLN:O	11	0.26
(2,13)	1:101:A:LEU:H	1:90:A:GLN:O	20	0.26
(2,11)	1:97:A:ILE:H	1:94:A:LEU:O	5	0.26
(1,3529)	1:78:A:PHE:HE1	1:78:A:PHE:HB2	3	0.26
(1,3514)	1:35:A:GLU:HA	1:34:A:TYR:HE2	8	0.26
(1,3514)	1:35:A:GLU:HA	1:34:A:TYR:HE1	16	0.26
(1,3501)	1:86:A:LEU:HB2	1:78:A:PHE:HD2	11	0.26
(1,3450)	1:61:A:PHE:HD2	1:55:A:MET:HG2	9	0.26
(1,3450)	1:61:A:PHE:HD2	1:55:A:MET:HG2	16	0.26
(1,3407)	1:55:A:MET:HE1	1:119:A:VAL:HA	19	0.26
(1,3400)	1:126:A:ILE:HG21	1:142:A:MET:HG2	16	0.26
(1,3400)	1:126:A:ILE:HG22	1:142:A:MET:HG2	19	0.26
(1,3391)	1:11:A:GLU:HB3	1:12:A:ASP:HB2	14	0.26
(1,3383)	1:42:A:GLU:HG3	1:38:A:VAL:HG23	17	0.26
(1,3381)	1:67:A:LYS:HA	1:40:A:LEU:HD12	6	0.26
(1,3370)	1:174:A:LEU:HD22	1:171:A:ILE:HA	13	0.26
(1,3363)	1:52:A:ILE:HG13	1:60:A:MET:HG2	20	0.26
(1,3272)	1:98:A:LEU:H	1:97:A:ILE:HG21	20	0.26
(1,3264)	1:20:A:VAL:HG23	1:27:A:VAL:HA	15	0.26
(1,3264)	1:20:A:VAL:HG23	1:27:A:VAL:HA	16	0.26
(1,3243)	1:113:A:LEU:HD11	1:116:A:LYS:H	18	0.26
(1,3236)	1:98:A:LEU:HD22	1:139:A:LEU:HB2	1	0.26
(1,3236)	1:98:A:LEU:HD22	1:139:A:LEU:HB2	4	0.26
(1,3236)	1:98:A:LEU:HD23	1:139:A:LEU:HB2	11	0.26
(1,3236)	1:98:A:LEU:HD23	1:139:A:LEU:HB2	18	0.26
(1,3215)	1:15:A:GLN:HB2	1:2:A:MET:HG3	16	0.26
(1,3207)	1:166:A:ILE:HG22	1:167:A:ILE:H	5	0.26
(1,3207)	1:166:A:ILE:HG22	1:167:A:ILE:H	16	0.26
(1,3172)	1:101:A:LEU:HD21	1:110:A:PHE:HE1	12	0.26
(1,3159)	1:149:A:MET:HB3	1:140:A:ILE:HD12	7	0.26
(1,3159)	1:149:A:MET:HB3	1:140:A:ILE:HD13	14	0.26
(1,3131)	1:4:A:LYS:HA	1:3:A:THR:HG23	2	0.26
(1,3116)	1:87:A:LYS:HE3	1:113:A:LEU:HD23	5	0.26
(1,3092)	1:157:A:LYS:HA	1:157:A:LYS:HE2	3	0.26
(1,3078)	1:134:A:GLU:HG3	1:134:A:GLU:HA	4	0.26
(1,3078)	1:134:A:GLU:HG3	1:134:A:GLU:HA	10	0.26
(1,3055)	1:144:A:MET:HG3	1:145:A:THR:HG22	20	0.26
(1,3052)	1:55:A:MET:HE3	1:61:A:PHE:HZ	20	0.26
(1,3043)	1:88:A:GLU:HB3	1:78:A:PHE:HD1	18	0.26
(1,3021)	1:140:A:ILE:HD13	1:138:A:PHE:HE2	6	0.26
(1,3008)	1:50:A:LYS:HD3	1:50:A:LYS:HA	10	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3006)	1:22:A:ASP:HA	1:15:A:GLN:HB2	5	0.26
(1,2956)	1:41:A:ASN:HB2	1:44:A:TYR:HD1	8	0.26
(1,2955)	1:145:A:THR:HG21	1:146:A:ASP:HB3	4	0.26
(1,2955)	1:145:A:THR:HG23	1:146:A:ASP:HB3	17	0.26
(1,2955)	1:145:A:THR:HG22	1:146:A:ASP:HB3	18	0.26
(1,2950)	1:60:A:MET:HG2	1:60:A:MET:HE2	20	0.26
(1,2936)	1:159:A:GLU:HG2	1:159:A:GLU:HB2	7	0.26
(1,2936)	1:159:A:GLU:HG2	1:159:A:GLU:HB2	14	0.26
(1,2936)	1:159:A:GLU:HG2	1:159:A:GLU:HB2	15	0.26
(1,2936)	1:159:A:GLU:HG2	1:159:A:GLU:HB2	20	0.26
(1,2924)	1:166:A:ILE:HD11	1:163:A:TRP:HA	2	0.26
(1,2903)	1:169:A:ASP:H	1:165:A:GLN:HG2	4	0.26
(1,2900)	1:142:A:MET:HB2	1:126:A:ILE:HG12	14	0.26
(1,2873)	1:170:A:THR:HB	1:167:A:ILE:HG23	12	0.26
(1,2873)	1:170:A:THR:HB	1:167:A:ILE:HG22	15	0.26
(1,2843)	1:31:A:VAL:HA	1:34:A:TYR:HE1	4	0.26
(1,2843)	1:31:A:VAL:HA	1:34:A:TYR:HE1	15	0.26
(1,2837)	1:141:A:SER:HB2	1:144:A:MET:HE2	1	0.26
(1,2793)	1:120:A:ILE:HD13	1:118:A:THR:HA	12	0.26
(1,2789)	1:158:A:GLU:HG2	1:158:A:GLU:HA	3	0.26
(1,2774)	1:77:A:VAL:HA	1:89:A:VAL:HG21	16	0.26
(1,2768)	1:159:A:GLU:HG2	1:159:A:GLU:HA	3	0.26
(1,2768)	1:159:A:GLU:HG2	1:159:A:GLU:HA	16	0.26
(1,2757)	1:163:A:TRP:HA	1:163:A:TRP:HZ2	15	0.26
(1,2732)	1:184:A:SER:HA	1:59:A:GLN:HB2	2	0.26
(1,2721)	1:61:A:PHE:HA	1:61:A:PHE:HE2	1	0.26
(1,2661)	1:101:A:LEU:HD12	1:108:A:TYR:HA	2	0.26
(1,2661)	1:101:A:LEU:HD12	1:108:A:TYR:HA	11	0.26
(1,2661)	1:101:A:LEU:HD12	1:108:A:TYR:HA	16	0.26
(1,2631)	1:80:A:LYS:HA	1:86:A:LEU:HD13	4	0.26
(1,2631)	1:80:A:LYS:HA	1:86:A:LEU:HD11	13	0.26
(1,2510)	1:73:A:ARG:HD3	1:73:A:ARG:HA	15	0.26
(1,2494)	1:126:A:ILE:HD11	1:128:A:ARG:HD3	2	0.26
(1,2494)	1:126:A:ILE:HD13	1:128:A:ARG:HD3	4	0.26
(1,2494)	1:126:A:ILE:HD12	1:128:A:ARG:HD3	7	0.26
(1,2494)	1:126:A:ILE:HD13	1:128:A:ARG:HD3	9	0.26
(1,2494)	1:126:A:ILE:HD13	1:128:A:ARG:HD3	11	0.26
(1,2494)	1:126:A:ILE:HD11	1:128:A:ARG:HD3	12	0.26
(1,2494)	1:126:A:ILE:HD11	1:128:A:ARG:HD3	18	0.26
(1,2493)	1:128:A:ARG:HB2	1:128:A:ARG:HD3	2	0.26
(1,2493)	1:128:A:ARG:HB2	1:128:A:ARG:HD3	11	0.26
(1,2493)	1:128:A:ARG:HB2	1:128:A:ARG:HD3	16	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2490)	1:39:A:ARG:HD2	1:38:A:VAL:HG13	11	0.26
(1,2468)	1:80:A:LYS:HE3	1:80:A:LYS:HD3	12	0.26
(1,2468)	1:80:A:LYS:HE3	1:80:A:LYS:HD3	14	0.26
(1,2461)	1:96:A:ASP:HB2	1:185:A:GLU:HB3	6	0.26
(1,2445)	1:166:A:ILE:HD13	1:169:A:ASP:HB2	16	0.26
(1,2391)	1:151:A:GLU:HG3	1:80:A:LYS:HB3	11	0.26
(1,2359)	1:134:A:GLU:HG3	1:157:A:LYS:HB3	6	0.26
(1,2241)	1:63:A:LYS:HD3	1:63:A:LYS:HA	16	0.26
(1,2190)	1:123:A:LYS:HD3	1:180:A:GLU:HA	18	0.26
(1,2157)	1:135:A:LYS:HD3	1:135:A:LYS:HB3	5	0.26
(1,2157)	1:135:A:LYS:HD3	1:135:A:LYS:HB3	13	0.26
(1,2135)	1:126:A:ILE:HG13	1:140:A:ILE:HD13	8	0.26
(1,2135)	1:126:A:ILE:HG13	1:140:A:ILE:HD12	15	0.26
(1,2099)	1:66:A:LEU:HG	1:97:A:ILE:HG13	3	0.26
(1,2072)	1:98:A:LEU:HD13	1:93:A:LEU:HD22	2	0.26
(1,2049)	1:113:A:LEU:HD12	1:113:A:LEU:HA	5	0.26
(1,1994)	1:174:A:LEU:HD11	1:171:A:ILE:HB	4	0.26
(1,1989)	1:174:A:LEU:HD13	1:123:A:LYS:HG3	6	0.26
(1,1968)	1:46:A:LYS:HG2	1:46:A:LYS:HE3	7	0.26
(1,1940)	1:50:A:LYS:HG3	1:50:A:LYS:HA	8	0.26
(1,1936)	1:56:A:LYS:HG2	1:56:A:LYS:HA	13	0.26
(1,1927)	1:19:A:LEU:HD12	1:11:A:GLU:HA	14	0.26
(1,1923)	1:67:A:LYS:HG2	1:44:A:TYR:HD2	8	0.26
(1,1923)	1:67:A:LYS:HG2	1:44:A:TYR:HD2	14	0.26
(1,1923)	1:67:A:LYS:HG2	1:44:A:TYR:HD2	20	0.26
(1,1921)	1:67:A:LYS:HG2	1:44:A:TYR:HE2	18	0.26
(1,1891)	1:174:A:LEU:HD21	1:123:A:LYS:HE2	20	0.26
(1,1886)	1:174:A:LEU:HD22	1:174:A:LEU:HD12	16	0.26
(1,1865)	1:95:A:THR:HG21	1:170:A:THR:HA	3	0.26
(1,1865)	1:95:A:THR:HG23	1:170:A:THR:HA	10	0.26
(1,1860)	1:62:A:ALA:HB3	1:110:A:PHE:HE2	10	0.26
(1,1860)	1:62:A:ALA:HB2	1:110:A:PHE:HE2	17	0.26
(1,1846)	1:170:A:THR:HG22	1:72:A:VAL:HG13	16	0.26
(1,1815)	1:173:A:THR:HG21	1:176:A:ARG:HB2	7	0.26
(1,1779)	1:79:A:LEU:H	1:89:A:VAL:HG12	6	0.26
(1,1779)	1:79:A:LEU:H	1:89:A:VAL:HG12	7	0.26
(1,1769)	1:86:A:LEU:HD23	1:78:A:PHE:HB2	5	0.26
(1,1767)	1:86:A:LEU:HD23	1:86:A:LEU:HB2	7	0.26
(1,1763)	1:99:A:VAL:HG11	1:101:A:LEU:HG	6	0.26
(1,1763)	1:99:A:VAL:HG11	1:101:A:LEU:HG	14	0.26
(1,1745)	1:77:A:VAL:HG11	1:163:A:TRP:HD1	20	0.26
(1,1741)	1:119:A:VAL:HG13	1:110:A:PHE:HD1	7	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1741)	1:119:A:VAL:HG12	1:110:A:PHE:HD1	11	0.26
(1,1727)	1:31:A:VAL:HG12	1:31:A:VAL:HB	9	0.26
(1,1720)	1:154:A:ALA:HB1	1:77:A:VAL:HG11	20	0.26
(1,1687)	1:111:A:ALA:HB1	1:89:A:VAL:HG21	18	0.26
(1,1684)	1:32:A:ALA:HB1	1:32:A:ALA:HA	8	0.26
(1,1666)	1:97:A:ILE:HG22	1:119:A:VAL:HG21	12	0.26
(1,1643)	1:52:A:ILE:HG21	1:52:A:ILE:HB	4	0.26
(1,1643)	1:52:A:ILE:HG22	1:52:A:ILE:HB	7	0.26
(1,1643)	1:52:A:ILE:HG21	1:52:A:ILE:HB	9	0.26
(1,1643)	1:52:A:ILE:HG22	1:52:A:ILE:HB	11	0.26
(1,1643)	1:52:A:ILE:HG23	1:52:A:ILE:HB	13	0.26
(1,1643)	1:52:A:ILE:HG22	1:52:A:ILE:HB	16	0.26
(1,1643)	1:52:A:ILE:HG22	1:52:A:ILE:HB	18	0.26
(1,1643)	1:52:A:ILE:HG21	1:52:A:ILE:HB	19	0.26
(1,1636)	1:126:A:ILE:HD12	1:140:A:ILE:HG12	8	0.26
(1,1636)	1:126:A:ILE:HD12	1:140:A:ILE:HG12	10	0.26
(1,1636)	1:126:A:ILE:HD12	1:140:A:ILE:HG12	17	0.26
(1,1620)	1:182:A:ILE:HG22	1:181:A:GLY:HA2	12	0.26
(1,1620)	1:182:A:ILE:HG22	1:181:A:GLY:HA2	15	0.26
(1,1608)	1:60:A:MET:HE2	1:52:A:ILE:HG22	9	0.26
(1,1608)	1:60:A:MET:HE1	1:52:A:ILE:HG23	15	0.26
(1,1604)	1:149:A:MET:HE1	1:138:A:PHE:HA	12	0.26
(1,1604)	1:149:A:MET:HE1	1:138:A:PHE:HA	13	0.26
(1,1600)	1:149:A:MET:HE3	1:138:A:PHE:HB2	6	0.26
(1,1583)	1:164:A:ILE:HG23	1:129:A:GLU:HG3	10	0.26
(1,1582)	1:164:A:ILE:HG21	1:129:A:GLU:HG2	1	0.26
(1,1575)	1:164:A:ILE:HD12	1:161:A:ASN:HB3	19	0.26
(1,1570)	1:171:A:ILE:HD13	1:122:A:LEU:HB3	8	0.26
(1,1548)	1:120:A:ILE:HD11	1:139:A:LEU:HB2	14	0.26
(1,1534)	1:140:A:ILE:HD12	1:140:A:ILE:HG13	13	0.26
(1,1534)	1:140:A:ILE:HD13	1:140:A:ILE:HG13	15	0.26
(1,1522)	1:166:A:ILE:HD11	1:73:A:ARG:HB2	18	0.26
(1,1416)	1:79:A:LEU:H	1:89:A:VAL:HG21	8	0.26
(1,1415)	1:83:A:ALA:H	1:81:A:ASN:HA	8	0.26
(1,1400)	1:69:A:LYS:H	1:68:A:ARG:HB3	3	0.26
(1,1400)	1:69:A:LYS:H	1:68:A:ARG:HB3	4	0.26
(1,1400)	1:69:A:LYS:H	1:68:A:ARG:HB3	8	0.26
(1,1307)	1:63:A:LYS:H	1:47:A:THR:HG23	3	0.26
(1,1289)	1:93:A:LEU:H	1:98:A:LEU:HD22	10	0.26
(1,1268)	1:153:A:HIS:H	1:152:A:VAL:HG12	17	0.26
(1,1251)	1:84:A:GLY:H	1:83:A:ALA:HB1	8	0.26
(1,1251)	1:84:A:GLY:H	1:83:A:ALA:HB1	18	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1241)	1:96:A:ASP:H	1:95:A:THR:HG23	4	0.26
(1,1241)	1:96:A:ASP:H	1:95:A:THR:HG22	19	0.26
(1,1199)	1:67:A:LYS:H	1:67:A:LYS:HB3	18	0.26
(1,1088)	1:166:A:ILE:H	1:166:A:ILE:HD13	8	0.26
(1,1088)	1:166:A:ILE:H	1:166:A:ILE:HD11	12	0.26
(1,1060)	1:172:A:ASN:H	1:171:A:ILE:HG23	10	0.26
(1,1060)	1:172:A:ASN:H	1:171:A:ILE:HG22	12	0.26
(1,1060)	1:172:A:ASN:H	1:171:A:ILE:HG23	15	0.26
(1,1057)	1:172:A:ASN:H	1:172:A:ASN:HB3	11	0.26
(1,1057)	1:172:A:ASN:H	1:172:A:ASN:HB3	16	0.26
(1,1039)	1:170:A:THR:H	1:171:A:ILE:HD11	1	0.26
(1,1039)	1:170:A:THR:H	1:171:A:ILE:HD11	17	0.26
(1,1011)	1:47:A:THR:H	1:46:A:LYS:HD2	5	0.26
(1,950)	1:89:A:VAL:H	1:88:A:GLU:HG3	2	0.26
(1,950)	1:89:A:VAL:H	1:88:A:GLU:HG3	8	0.26
(1,950)	1:89:A:VAL:H	1:88:A:GLU:HG3	11	0.26
(1,950)	1:89:A:VAL:H	1:88:A:GLU:HG3	12	0.26
(1,950)	1:89:A:VAL:H	1:88:A:GLU:HG3	14	0.26
(1,950)	1:89:A:VAL:H	1:88:A:GLU:HG3	15	0.26
(1,943)	1:178:A:GLU:H	1:178:A:GLU:HG2	2	0.26
(1,940)	1:178:A:GLU:H	1:178:A:GLU:HA	12	0.26
(1,940)	1:178:A:GLU:H	1:178:A:GLU:HA	13	0.26
(1,931)	1:121:A:SER:H	1:120:A:ILE:HG23	2	0.26
(1,912)	1:50:A:LYS:H	1:50:A:LYS:HB3	10	0.26
(1,897)	1:176:A:ARG:H	1:176:A:ARG:HG3	6	0.26
(1,842)	1:110:A:PHE:H	1:109:A:ILE:HD13	2	0.26
(1,841)	1:110:A:PHE:H	1:109:A:ILE:HG23	1	0.26
(1,835)	1:12:A:ASP:H	1:174:A:LEU:HA	1	0.26
(1,835)	1:12:A:ASP:H	1:174:A:LEU:HA	14	0.26
(1,828)	1:86:A:LEU:H	1:86:A:LEU:HD13	20	0.26
(1,825)	1:86:A:LEU:H	1:86:A:LEU:HB3	16	0.26
(1,823)	1:86:A:LEU:H	1:85:A:ARG:HB2	12	0.26
(1,807)	1:163:A:TRP:H	1:163:A:TRP:HB3	7	0.26
(1,786)	1:87:A:LYS:H	1:87:A:LYS:HB2	18	0.26
(1,784)	1:92:A:VAL:H	1:98:A:LEU:HD21	1	0.26
(1,782)	1:92:A:VAL:H	1:99:A:VAL:HB	11	0.26
(1,782)	1:92:A:VAL:H	1:99:A:VAL:HB	16	0.26
(1,777)	1:92:A:VAL:H	1:100:A:PHE:HD1	4	0.26
(1,724)	1:19:A:LEU:H	1:18:A:SER:HA	15	0.26
(1,712)	1:74:A:ASP:H	1:71:A:LEU:HD11	2	0.26
(1,699)	1:137:A:LEU:H	1:137:A:LEU:HD11	8	0.26
(1,676)	1:111:A:ALA:H	1:101:A:LEU:HD22	11	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,658)	1:122:A:LEU:H	1:97:A:ILE:HB	5	0.26
(1,658)	1:122:A:LEU:H	1:97:A:ILE:HB	6	0.26
(1,658)	1:122:A:LEU:H	1:97:A:ILE:HB	16	0.26
(1,611)	1:81:A:ASN:H	1:86:A:LEU:HD21	5	0.26
(1,568)	1:88:A:GLU:H	1:78:A:PHE:HD2	12	0.26
(1,548)	1:61:A:PHE:H	1:60:A:MET:HB2	7	0.26
(1,506)	1:35:A:GLU:HA	1:34:A:TYR:HD1	13	0.26
(1,506)	1:35:A:GLU:HA	1:34:A:TYR:HD1	18	0.26
(1,495)	1:10:A:GLN:HG3	1:10:A:GLN:HB3	6	0.26
(1,495)	1:10:A:GLN:HG3	1:10:A:GLN:HB3	16	0.26
(1,493)	1:87:A:LYS:HG2	1:87:A:LYS:HD3	12	0.26
(1,493)	1:87:A:LYS:HG2	1:87:A:LYS:HD3	19	0.26
(1,489)	1:70:A:LYS:HB3	1:36:A:LYS:HE2	5	0.26
(1,476)	1:104:A:LYS:HA	1:104:A:LYS:HG2	1	0.26
(1,459)	1:15:A:GLN:HB2	1:4:A:LYS:HE2	4	0.26
(1,459)	1:15:A:GLN:HB2	1:4:A:LYS:HE2	9	0.26
(1,458)	1:15:A:GLN:HB3	1:4:A:LYS:HE2	4	0.26
(1,457)	1:92:A:VAL:H	1:98:A:LEU:HD22	8	0.26
(1,446)	1:22:A:ASP:HA	1:21:A:LYS:HG3	12	0.26
(1,440)	1:36:A:LYS:HE2	1:36:A:LYS:HD3	16	0.26
(1,437)	1:37:A:LYS:HB3	1:34:A:TYR:HE2	10	0.26
(1,434)	1:22:A:ASP:HB3	1:21:A:LYS:HA	12	0.26
(1,393)	1:31:A:VAL:HG12	1:32:A:ALA:HA	14	0.26
(1,393)	1:32:A:ALA:HA	1:31:A:VAL:HG23	16	0.26
(1,393)	1:32:A:ALA:HA	1:31:A:VAL:HG22	18	0.26
(1,393)	1:32:A:ALA:HA	1:31:A:VAL:HG22	19	0.26
(1,390)	1:170:A:THR:HA	1:171:A:ILE:HD13	2	0.26
(1,376)	1:30:A:LYS:HB3	1:31:A:VAL:HA	13	0.26
(1,376)	1:30:A:LYS:HB3	1:31:A:VAL:HA	15	0.26
(1,371)	1:19:A:LEU:HB2	1:18:A:SER:HB2	15	0.26
(1,363)	1:37:A:LYS:HA	1:37:A:LYS:HE3	5	0.26
(1,358)	1:155:A:SER:HA	1:135:A:LYS:HE3	4	0.26
(1,357)	1:34:A:TYR:HA	1:30:A:LYS:HE3	10	0.26
(1,353)	1:67:A:LYS:HE3	1:67:A:LYS:HA	2	0.26
(1,302)	1:25:A:GLY:HA2	1:28:A:ASP:HB3	2	0.26
(1,290)	1:83:A:ALA:HB1	1:85:A:ARG:HD3	2	0.26
(1,278)	1:30:A:LYS:HG2	1:30:A:LYS:HE2	16	0.26
(1,273)	1:50:A:LYS:HG3	1:50:A:LYS:HE3	11	0.26
(1,273)	1:50:A:LYS:HG3	1:50:A:LYS:HE3	14	0.26
(1,273)	1:50:A:LYS:HG3	1:50:A:LYS:HE3	16	0.26
(1,264)	1:81:A:ASN:HB2	1:79:A:LEU:HB3	16	0.26
(1,246)	1:87:A:LYS:HB2	1:79:A:LEU:HD21	13	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,243)	1:4:A:LYS:HB2	1:4:A:LYS:HE2	12	0.26
(1,197)	1:68:A:ARG:HG2	1:67:A:LYS:HE2	11	0.26
(1,190)	1:126:A:ILE:HD12	1:128:A:ARG:HG3	13	0.26
(1,161)	1:71:A:LEU:HD13	1:93:A:LEU:H	13	0.26
(1,149)	1:30:A:LYS:HG2	1:30:A:LYS:HB2	1	0.26
(1,149)	1:30:A:LYS:HG2	1:30:A:LYS:HB2	4	0.26
(1,149)	1:30:A:LYS:HG2	1:30:A:LYS:HB2	7	0.26
(1,149)	1:30:A:LYS:HG2	1:30:A:LYS:HB2	19	0.26
(1,142)	1:56:A:LYS:HG2	1:56:A:LYS:HD2	1	0.26
(1,142)	1:56:A:LYS:HG2	1:56:A:LYS:HD2	20	0.26
(1,140)	1:70:A:LYS:HG3	1:70:A:LYS:HD2	5	0.26
(1,126)	1:95:A:THR:HG21	1:70:A:LYS:HD3	17	0.26
(1,120)	1:122:A:LEU:HD22	1:122:A:LEU:HB3	1	0.26
(1,109)	1:97:A:ILE:HD13	1:119:A:VAL:HG22	17	0.26
(1,103)	1:140:A:ILE:HD11	1:149:A:MET:HE3	2	0.26
(1,98)	1:140:A:ILE:HD12	1:142:A:MET:HE1	2	0.26
(1,98)	1:140:A:ILE:HD11	1:142:A:MET:HE1	9	0.26
(1,79)	1:116:A:LYS:H	1:116:A:LYS:HD3	20	0.26
(1,78)	1:107:A:LYS:H	1:103:A:GLU:HG2	5	0.26
(1,78)	1:107:A:LYS:H	1:103:A:GLU:HG2	10	0.26
(1,78)	1:107:A:LYS:H	1:103:A:GLU:HG2	14	0.26
(1,62)	1:4:A:LYS:H	1:5:A:ASP:HB2	17	0.26
(1,56)	1:106:A:GLN:H	1:106:A:GLN:HG3	4	0.26
(1,56)	1:106:A:GLN:H	1:106:A:GLN:HG3	10	0.26
(1,37)	1:169:A:ASP:H	1:167:A:ILE:HD11	17	0.26
(1,35)	1:119:A:VAL:H	1:120:A:ILE:HG13	14	0.26
(1,31)	1:139:A:LEU:H	1:149:A:MET:HG3	7	0.26
(1,31)	1:139:A:LEU:H	1:149:A:MET:HG3	16	0.26
(1,30)	1:139:A:LEU:H	1:139:A:LEU:HD21	12	0.26
(1,29)	1:8:A:VAL:H	1:8:A:VAL:HG22	6	0.26
(1,24)	1:7:A:GLU:H	1:9:A:GLU:HG3	16	0.26
(1,22)	1:130:A:VAL:H	1:129:A:GLU:HB3	7	0.26
(1,20)	1:11:A:GLU:H	1:178:A:GLU:H	7	0.26
(1,17)	1:14:A:ALA:H	1:19:A:LEU:HB3	20	0.26
(1,3)	1:185:A:GLU:H	1:185:A:GLU:HG3	10	0.26
(2,22)	1:162:A:SER:H	1:159:A:GLU:O	3	0.25
(2,13)	1:101:A:LEU:H	1:90:A:GLN:O	10	0.25
(1,3529)	1:78:A:PHE:HE1	1:78:A:PHE:HB2	5	0.25
(1,3529)	1:78:A:PHE:HE1	1:78:A:PHE:HB2	8	0.25
(1,3529)	1:78:A:PHE:HE1	1:78:A:PHE:HB2	9	0.25
(1,3514)	1:35:A:GLU:HA	1:34:A:TYR:HE1	7	0.25
(1,3514)	1:35:A:GLU:HA	1:34:A:TYR:HE2	9	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3514)	1:35:A:GLU:HA	1:34:A:TYR:HE1	18	0.25
(1,3512)	1:101:A:LEU:HD12	1:108:A:TYR:HE2	2	0.25
(1,3512)	1:101:A:LEU:HD11	1:108:A:TYR:HE2	10	0.25
(1,3512)	1:101:A:LEU:HD13	1:108:A:TYR:HE2	13	0.25
(1,3456)	1:133:A:GLU:HG3	1:153:A:HIS:HE1	17	0.25
(1,3450)	1:61:A:PHE:HD2	1:55:A:MET:HG2	8	0.25
(1,3450)	1:61:A:PHE:HD2	1:55:A:MET:HG2	13	0.25
(1,3449)	1:61:A:PHE:HD2	1:110:A:PHE:HE1	8	0.25
(1,3419)	1:135:A:LYS:HD3	1:135:A:LYS:HA	19	0.25
(1,3401)	1:126:A:ILE:HG22	1:143:A:GLY:H	15	0.25
(1,3371)	1:67:A:LYS:HD2	1:67:A:LYS:HB3	2	0.25
(1,3371)	1:67:A:LYS:HD2	1:67:A:LYS:HB3	4	0.25
(1,3370)	1:174:A:LEU:HD23	1:171:A:ILE:HA	3	0.25
(1,3370)	1:174:A:LEU:HD23	1:171:A:ILE:HA	11	0.25
(1,3342)	1:55:A:MET:HE3	1:61:A:PHE:HB3	4	0.25
(1,3294)	1:65:A:ASP:HA	1:61:A:PHE:HE2	15	0.25
(1,3277)	1:111:A:ALA:HB2	1:100:A:PHE:HD2	10	0.25
(1,3272)	1:98:A:LEU:H	1:97:A:ILE:HG21	19	0.25
(1,3264)	1:20:A:VAL:HG21	1:27:A:VAL:HA	5	0.25
(1,3244)	1:94:A:LEU:HD11	1:92:A:VAL:H	3	0.25
(1,3244)	1:94:A:LEU:HD12	1:92:A:VAL:H	9	0.25
(1,3244)	1:94:A:LEU:HD11	1:92:A:VAL:H	14	0.25
(1,3242)	1:113:A:LEU:HD11	1:81:A:ASN:H	15	0.25
(1,3236)	1:98:A:LEU:HD23	1:139:A:LEU:HB2	10	0.25
(1,3236)	1:98:A:LEU:HD23	1:139:A:LEU:HB2	19	0.25
(1,3222)	1:77:A:VAL:HG23	1:78:A:PHE:H	5	0.25
(1,3222)	1:77:A:VAL:HG23	1:78:A:PHE:H	6	0.25
(1,3183)	1:144:A:MET:HA	1:145:A:THR:HG22	20	0.25
(1,3174)	1:101:A:LEU:HD21	1:108:A:TYR:HD2	9	0.25
(1,3173)	1:101:A:LEU:HD23	1:110:A:PHE:HD1	5	0.25
(1,3173)	1:101:A:LEU:HD21	1:110:A:PHE:HD1	15	0.25
(1,3173)	1:101:A:LEU:HD22	1:110:A:PHE:HD1	20	0.25
(1,3159)	1:149:A:MET:HB3	1:140:A:ILE:HD13	9	0.25
(1,3159)	1:149:A:MET:HB3	1:140:A:ILE:HD12	20	0.25
(1,3152)	1:97:A:ILE:HD13	1:65:A:ASP:HB3	12	0.25
(1,3116)	1:87:A:LYS:HE3	1:113:A:LEU:HD23	20	0.25
(1,3094)	1:66:A:LEU:HB3	1:61:A:PHE:HE1	1	0.25
(1,3094)	1:66:A:LEU:HB3	1:61:A:PHE:HE1	4	0.25
(1,3078)	1:134:A:GLU:HG3	1:134:A:GLU:HA	19	0.25
(1,3055)	1:144:A:MET:HG3	1:145:A:THR:HG23	6	0.25
(1,3055)	1:144:A:MET:HG3	1:145:A:THR:HG23	15	0.25
(1,3053)	1:55:A:MET:HE3	1:119:A:VAL:H	17	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3046)	1:54:A:ARG:HA	1:59:A:GLN:HG2	15	0.25
(1,3034)	1:94:A:LEU:HD21	1:97:A:ILE:HG12	18	0.25
(1,3010)	1:144:A:MET:HB3	1:144:A:MET:HG3	1	0.25
(1,3006)	1:22:A:ASP:HA	1:15:A:GLN:HB2	1	0.25
(1,3006)	1:22:A:ASP:HA	1:15:A:GLN:HB2	2	0.25
(1,2994)	1:11:A:GLU:HG2	1:11:A:GLU:HA	6	0.25
(1,2994)	1:11:A:GLU:HG2	1:11:A:GLU:HA	10	0.25
(1,2988)	1:43:A:ILE:HD12	1:40:A:LEU:HA	4	0.25
(1,2988)	1:43:A:ILE:HD11	1:40:A:LEU:HA	9	0.25
(1,2988)	1:43:A:ILE:HD12	1:40:A:LEU:HA	20	0.25
(1,2955)	1:145:A:THR:HG23	1:146:A:ASP:HB3	7	0.25
(1,2951)	1:144:A:MET:HE2	1:144:A:MET:HA	6	0.25
(1,2936)	1:159:A:GLU:HG2	1:159:A:GLU:HB2	1	0.25
(1,2936)	1:159:A:GLU:HG2	1:159:A:GLU:HB2	2	0.25
(1,2936)	1:159:A:GLU:HG2	1:159:A:GLU:HB2	3	0.25
(1,2936)	1:159:A:GLU:HG2	1:159:A:GLU:HB2	5	0.25
(1,2936)	1:159:A:GLU:HG2	1:159:A:GLU:HB2	6	0.25
(1,2936)	1:159:A:GLU:HG2	1:159:A:GLU:HB2	8	0.25
(1,2936)	1:159:A:GLU:HG2	1:159:A:GLU:HB2	10	0.25
(1,2936)	1:159:A:GLU:HG2	1:159:A:GLU:HB2	16	0.25
(1,2936)	1:159:A:GLU:HG2	1:159:A:GLU:HB2	17	0.25
(1,2918)	1:141:A:SER:HB2	1:140:A:ILE:HG23	1	0.25
(1,2918)	1:141:A:SER:HB2	1:140:A:ILE:HG21	16	0.25
(1,2912)	1:102:A:GLN:HA	1:89:A:VAL:HG23	7	0.25
(1,2903)	1:169:A:ASP:H	1:165:A:GLN:HG2	9	0.25
(1,2900)	1:142:A:MET:HB2	1:126:A:ILE:HG12	8	0.25
(1,2900)	1:142:A:MET:HB2	1:126:A:ILE:HG12	9	0.25
(1,2873)	1:170:A:THR:HB	1:167:A:ILE:HG21	1	0.25
(1,2873)	1:170:A:THR:HB	1:167:A:ILE:HG23	2	0.25
(1,2873)	1:170:A:THR:HB	1:167:A:ILE:HG23	3	0.25
(1,2873)	1:170:A:THR:HB	1:167:A:ILE:HG21	20	0.25
(1,2868)	1:167:A:ILE:HA	1:170:A:THR:HG21	4	0.25
(1,2868)	1:167:A:ILE:HA	1:170:A:THR:HG22	19	0.25
(1,2848)	1:47:A:THR:HA	1:108:A:TYR:HB3	19	0.25
(1,2843)	1:31:A:VAL:HA	1:34:A:TYR:HE1	11	0.25
(1,2789)	1:158:A:GLU:HG2	1:158:A:GLU:HA	8	0.25
(1,2789)	1:158:A:GLU:HG2	1:158:A:GLU:HA	14	0.25
(1,2774)	1:77:A:VAL:HA	1:89:A:VAL:HG23	9	0.25
(1,2768)	1:159:A:GLU:HG2	1:159:A:GLU:HA	1	0.25
(1,2768)	1:159:A:GLU:HG2	1:159:A:GLU:HA	5	0.25
(1,2768)	1:159:A:GLU:HG2	1:159:A:GLU:HA	8	0.25
(1,2768)	1:159:A:GLU:HG2	1:159:A:GLU:HA	10	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2756)	1:63:A:LYS:HA	1:44:A:TYR:HE2	6	0.25
(1,2753)	1:155:A:SER:HA	1:78:A:PHE:HD2	6	0.25
(1,2727)	1:139:A:LEU:HD22	1:127:A:VAL:HA	3	0.25
(1,2727)	1:139:A:LEU:HD22	1:127:A:VAL:HA	19	0.25
(1,2710)	1:178:A:GLU:HA	1:177:A:ASP:HB2	2	0.25
(1,2661)	1:101:A:LEU:HD13	1:108:A:TYR:HA	6	0.25
(1,2661)	1:101:A:LEU:HD11	1:108:A:TYR:HA	9	0.25
(1,2661)	1:101:A:LEU:HD13	1:108:A:TYR:HA	12	0.25
(1,2661)	1:101:A:LEU:HD12	1:108:A:TYR:HA	18	0.25
(1,2657)	1:108:A:TYR:HA	1:109:A:ILE:HD11	19	0.25
(1,2657)	1:108:A:TYR:HA	1:109:A:ILE:HD11	20	0.25
(1,2631)	1:80:A:LYS:HA	1:86:A:LEU:HD12	1	0.25
(1,2631)	1:80:A:LYS:HA	1:86:A:LEU:HD11	20	0.25
(1,2598)	1:32:A:ALA:HA	1:35:A:GLU:HA	2	0.25
(1,2508)	1:73:A:ARG:HD2	1:166:A:ILE:HG12	4	0.25
(1,2493)	1:128:A:ARG:HB2	1:128:A:ARG:HD3	4	0.25
(1,2464)	1:46:A:LYS:HE3	1:43:A:ILE:HG12	4	0.25
(1,2464)	1:46:A:LYS:HE3	1:43:A:ILE:HG12	8	0.25
(1,2464)	1:46:A:LYS:HE3	1:43:A:ILE:HG12	15	0.25
(1,2442)	1:146:A:ASP:HB3	1:147:A:PRO:HD3	3	0.25
(1,2407)	1:38:A:VAL:HG13	1:41:A:ASN:HB3	19	0.25
(1,2391)	1:151:A:GLU:HG3	1:80:A:LYS:HB3	17	0.25
(1,2368)	1:134:A:GLU:HG3	1:135:A:LYS:HG3	10	0.25
(1,2353)	1:133:A:GLU:HG3	1:130:A:VAL:HG11	3	0.25
(1,2317)	1:67:A:LYS:HB3	1:44:A:TYR:HE2	15	0.25
(1,2299)	1:102:A:GLN:HB3	1:89:A:VAL:HG12	9	0.25
(1,2279)	1:123:A:LYS:HB2	1:174:A:LEU:HD13	2	0.25
(1,2266)	1:149:A:MET:HB3	1:138:A:PHE:HA	9	0.25
(1,2241)	1:63:A:LYS:HD3	1:63:A:LYS:HA	18	0.25
(1,2192)	1:15:A:GLN:HB2	1:18:A:SER:HA	18	0.25
(1,2157)	1:135:A:LYS:HD3	1:135:A:LYS:HB3	11	0.25
(1,2141)	1:56:A:LYS:HD3	1:144:A:MET:HE3	14	0.25
(1,2049)	1:113:A:LEU:HD12	1:113:A:LEU:HA	19	0.25
(1,1995)	1:174:A:LEU:HD12	1:12:A:ASP:HB2	13	0.25
(1,1989)	1:174:A:LEU:HD13	1:123:A:LYS:HG3	2	0.25
(1,1968)	1:46:A:LYS:HG2	1:46:A:LYS:HE3	1	0.25
(1,1968)	1:46:A:LYS:HG2	1:46:A:LYS:HE3	3	0.25
(1,1968)	1:46:A:LYS:HG2	1:46:A:LYS:HE3	4	0.25
(1,1968)	1:46:A:LYS:HG2	1:46:A:LYS:HE3	5	0.25
(1,1968)	1:46:A:LYS:HG2	1:46:A:LYS:HE3	6	0.25
(1,1968)	1:46:A:LYS:HG2	1:46:A:LYS:HE3	8	0.25
(1,1968)	1:46:A:LYS:HG2	1:46:A:LYS:HE3	9	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1968)	1:46:A:LYS:HG2	1:46:A:LYS:HE3	11	0.25
(1,1968)	1:46:A:LYS:HG2	1:46:A:LYS:HE3	12	0.25
(1,1968)	1:46:A:LYS:HG2	1:46:A:LYS:HE3	14	0.25
(1,1968)	1:46:A:LYS:HG2	1:46:A:LYS:HE3	15	0.25
(1,1968)	1:46:A:LYS:HG2	1:46:A:LYS:HE3	16	0.25
(1,1968)	1:46:A:LYS:HG2	1:46:A:LYS:HE3	17	0.25
(1,1968)	1:46:A:LYS:HG2	1:46:A:LYS:HE3	18	0.25
(1,1959)	1:66:A:LEU:HD11	1:66:A:LEU:HA	1	0.25
(1,1946)	1:50:A:LYS:HG2	1:60:A:MET:HE3	3	0.25
(1,1940)	1:50:A:LYS:HG3	1:50:A:LYS:HA	13	0.25
(1,1936)	1:56:A:LYS:HG2	1:56:A:LYS:HA	5	0.25
(1,1921)	1:67:A:LYS:HG2	1:44:A:TYR:HE2	2	0.25
(1,1921)	1:67:A:LYS:HG2	1:44:A:TYR:HE2	8	0.25
(1,1921)	1:67:A:LYS:HG2	1:44:A:TYR:HE2	20	0.25
(1,1906)	1:86:A:LEU:HD12	1:78:A:PHE:HE2	5	0.25
(1,1877)	1:66:A:LEU:HD23	1:44:A:TYR:HA	1	0.25
(1,1867)	1:19:A:LEU:HD23	1:19:A:LEU:HA	5	0.25
(1,1867)	1:19:A:LEU:HD21	1:19:A:LEU:HA	11	0.25
(1,1860)	1:62:A:ALA:HB2	1:110:A:PHE:HE2	4	0.25
(1,1846)	1:170:A:THR:HG23	1:72:A:VAL:HG13	7	0.25
(1,1840)	1:150:A:VAL:HG12	1:118:A:THR:HA	12	0.25
(1,1835)	1:173:A:THR:HG23	1:176:A:ARG:HD3	13	0.25
(1,1815)	1:173:A:THR:HG23	1:176:A:ARG:HB2	16	0.25
(1,1811)	1:38:A:VAL:HG11	1:38:A:VAL:HG22	12	0.25
(1,1787)	1:101:A:LEU:HD21	1:66:A:LEU:HD13	17	0.25
(1,1787)	1:101:A:LEU:HD23	1:66:A:LEU:HD13	19	0.25
(1,1779)	1:79:A:LEU:H	1:89:A:VAL:HG11	10	0.25
(1,1779)	1:79:A:LEU:H	1:89:A:VAL:HG12	15	0.25
(1,1767)	1:86:A:LEU:HD23	1:86:A:LEU:HB2	8	0.25
(1,1763)	1:99:A:VAL:HG12	1:101:A:LEU:HG	9	0.25
(1,1748)	1:72:A:VAL:HG23	1:95:A:THR:HA	4	0.25
(1,1745)	1:77:A:VAL:HG12	1:163:A:TRP:HD1	11	0.25
(1,1663)	1:120:A:ILE:HG22	1:141:A:SER:HB2	16	0.25
(1,1643)	1:52:A:ILE:HG21	1:52:A:ILE:HB	1	0.25
(1,1643)	1:52:A:ILE:HG22	1:52:A:ILE:HB	2	0.25
(1,1643)	1:52:A:ILE:HG22	1:52:A:ILE:HB	3	0.25
(1,1643)	1:52:A:ILE:HG23	1:52:A:ILE:HB	5	0.25
(1,1643)	1:52:A:ILE:HG23	1:52:A:ILE:HB	6	0.25
(1,1643)	1:52:A:ILE:HG22	1:52:A:ILE:HB	10	0.25
(1,1643)	1:52:A:ILE:HG22	1:52:A:ILE:HB	12	0.25
(1,1643)	1:52:A:ILE:HG21	1:52:A:ILE:HB	14	0.25
(1,1643)	1:52:A:ILE:HG21	1:52:A:ILE:HB	17	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1636)	1:126:A:ILE:HD13	1:140:A:ILE:HG12	3	0.25
(1,1636)	1:126:A:ILE:HD13	1:140:A:ILE:HG12	20	0.25
(1,1627)	1:43:A:ILE:HG22	1:108:A:TYR:HE2	19	0.25
(1,1620)	1:182:A:ILE:HG21	1:181:A:GLY:HA2	8	0.25
(1,1614)	1:171:A:ILE:HG23	1:174:A:LEU:HD12	8	0.25
(1,1614)	1:171:A:ILE:HG22	1:174:A:LEU:HD12	15	0.25
(1,1614)	1:171:A:ILE:HG21	1:174:A:LEU:HD12	18	0.25
(1,1608)	1:60:A:MET:HE2	1:52:A:ILE:HG22	4	0.25
(1,1608)	1:60:A:MET:HE3	1:52:A:ILE:HG21	5	0.25
(1,1608)	1:60:A:MET:HE2	1:52:A:ILE:HG23	12	0.25
(1,1608)	1:60:A:MET:HE2	1:52:A:ILE:HG22	17	0.25
(1,1608)	1:60:A:MET:HE1	1:52:A:ILE:HG23	18	0.25
(1,1604)	1:149:A:MET:HE1	1:138:A:PHE:HA	7	0.25
(1,1604)	1:149:A:MET:HE3	1:138:A:PHE:HA	14	0.25
(1,1603)	1:149:A:MET:HE3	1:149:A:MET:HA	10	0.25
(1,1600)	1:149:A:MET:HE1	1:138:A:PHE:HB2	18	0.25
(1,1594)	1:55:A:MET:HE2	1:120:A:ILE:HA	8	0.25
(1,1590)	1:55:A:MET:HE2	1:55:A:MET:HG3	20	0.25
(1,1582)	1:164:A:ILE:HG23	1:129:A:GLU:HG2	17	0.25
(1,1580)	1:164:A:ILE:HG21	1:127:A:VAL:HB	5	0.25
(1,1567)	1:171:A:ILE:HD12	1:174:A:LEU:HD13	8	0.25
(1,1539)	1:140:A:ILE:HD13	1:149:A:MET:HB2	6	0.25
(1,1534)	1:140:A:ILE:HD11	1:140:A:ILE:HG13	5	0.25
(1,1534)	1:140:A:ILE:HD13	1:140:A:ILE:HG13	7	0.25
(1,1534)	1:140:A:ILE:HD11	1:140:A:ILE:HG13	10	0.25
(1,1534)	1:140:A:ILE:HD13	1:140:A:ILE:HG13	20	0.25
(1,1522)	1:166:A:ILE:HD11	1:73:A:ARG:HB2	16	0.25
(1,1519)	1:109:A:ILE:HD13	1:104:A:LYS:HG2	10	0.25
(1,1504)	1:163:A:TRP:HE1	1:75:A:GLY:HA2	6	0.25
(1,1476)	1:142:A:MET:H	1:142:A:MET:HG3	8	0.25
(1,1476)	1:142:A:MET:H	1:142:A:MET:HG3	16	0.25
(1,1463)	1:85:A:ARG:H	1:85:A:ARG:HG3	12	0.25
(1,1415)	1:83:A:ALA:H	1:81:A:ASN:HA	2	0.25
(1,1415)	1:83:A:ALA:H	1:81:A:ASN:HA	5	0.25
(1,1410)	1:172:A:ASN:HD22	1:168:A:GLN:HG3	11	0.25
(1,1400)	1:69:A:LYS:H	1:68:A:ARG:HB3	6	0.25
(1,1400)	1:69:A:LYS:H	1:68:A:ARG:HB3	17	0.25
(1,1390)	1:184:A:SER:H	1:59:A:GLN:HG2	19	0.25
(1,1366)	1:135:A:LYS:H	1:135:A:LYS:HB2	20	0.25
(1,1289)	1:93:A:LEU:H	1:98:A:LEU:HD22	18	0.25
(1,1284)	1:44:A:TYR:H	1:44:A:TYR:HD1	5	0.25
(1,1284)	1:44:A:TYR:H	1:44:A:TYR:HD1	20	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1241)	1:96:A:ASP:H	1:95:A:THR:HG21	2	0.25
(1,1216)	1:118:A:THR:H	1:117:A:SER:HB2	11	0.25
(1,1199)	1:67:A:LYS:H	1:67:A:LYS:HB3	12	0.25
(1,1060)	1:172:A:ASN:H	1:171:A:ILE:HG22	5	0.25
(1,1039)	1:170:A:THR:H	1:171:A:ILE:HD13	14	0.25
(1,1011)	1:47:A:THR:H	1:46:A:LYS:HD2	14	0.25
(1,1011)	1:47:A:THR:H	1:46:A:LYS:HD2	20	0.25
(1,993)	1:27:A:VAL:H	1:27:A:VAL:HG12	13	0.25
(1,950)	1:89:A:VAL:H	1:88:A:GLU:HG3	1	0.25
(1,950)	1:89:A:VAL:H	1:88:A:GLU:HG3	9	0.25
(1,950)	1:89:A:VAL:H	1:88:A:GLU:HG3	10	0.25
(1,945)	1:89:A:VAL:H	1:78:A:PHE:HD1	12	0.25
(1,943)	1:178:A:GLU:H	1:178:A:GLU:HG2	19	0.25
(1,931)	1:121:A:SER:H	1:120:A:ILE:HG22	7	0.25
(1,897)	1:176:A:ARG:H	1:176:A:ARG:HG3	4	0.25
(1,835)	1:12:A:ASP:H	1:174:A:LEU:HA	13	0.25
(1,825)	1:86:A:LEU:H	1:86:A:LEU:HB3	12	0.25
(1,807)	1:163:A:TRP:H	1:163:A:TRP:HB3	5	0.25
(1,807)	1:163:A:TRP:H	1:163:A:TRP:HB3	9	0.25
(1,807)	1:163:A:TRP:H	1:163:A:TRP:HB3	13	0.25
(1,807)	1:163:A:TRP:H	1:163:A:TRP:HB3	14	0.25
(1,807)	1:163:A:TRP:H	1:163:A:TRP:HB3	15	0.25
(1,807)	1:163:A:TRP:H	1:163:A:TRP:HB3	20	0.25
(1,786)	1:87:A:LYS:H	1:87:A:LYS:HB2	5	0.25
(1,784)	1:92:A:VAL:H	1:98:A:LEU:HD21	3	0.25
(1,782)	1:92:A:VAL:H	1:99:A:VAL:HB	4	0.25
(1,777)	1:92:A:VAL:H	1:100:A:PHE:HD1	17	0.25
(1,724)	1:19:A:LEU:H	1:18:A:SER:HA	8	0.25
(1,712)	1:74:A:ASP:H	1:71:A:LEU:HD13	5	0.25
(1,601)	1:55:A:MET:H	1:55:A:MET:HB2	17	0.25
(1,582)	1:167:A:ILE:H	1:127:A:VAL:HG12	3	0.25
(1,549)	1:61:A:PHE:H	1:52:A:ILE:HG23	7	0.25
(1,548)	1:61:A:PHE:H	1:60:A:MET:HB2	10	0.25
(1,515)	1:37:A:LYS:HD2	1:34:A:TYR:HE1	9	0.25
(1,507)	1:153:A:HIS:HE1	1:132:A:HIS:HD2	20	0.25
(1,506)	1:35:A:GLU:HA	1:34:A:TYR:HD1	5	0.25
(1,506)	1:35:A:GLU:HA	1:34:A:TYR:HD1	17	0.25
(1,506)	1:35:A:GLU:HA	1:34:A:TYR:HD1	20	0.25
(1,499)	1:50:A:LYS:HD2	1:49:A:SER:HB3	12	0.25
(1,495)	1:10:A:GLN:HG3	1:10:A:GLN:HB3	2	0.25
(1,493)	1:87:A:LYS:HG2	1:87:A:LYS:HD3	2	0.25
(1,493)	1:87:A:LYS:HG2	1:87:A:LYS:HD3	7	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,493)	1:87:A:LYS:HG2	1:87:A:LYS:HD3	11	0.25
(1,493)	1:87:A:LYS:HG2	1:87:A:LYS:HD3	14	0.25
(1,493)	1:87:A:LYS:HG2	1:87:A:LYS:HD3	20	0.25
(1,477)	1:50:A:LYS:HD2	1:50:A:LYS:HE3	5	0.25
(1,461)	1:98:A:LEU:HD23	1:93:A:LEU:HB2	5	0.25
(1,457)	1:92:A:VAL:H	1:98:A:LEU:HD23	2	0.25
(1,432)	1:67:A:LYS:HE3	1:44:A:TYR:HD1	18	0.25
(1,431)	1:67:A:LYS:HE3	1:44:A:TYR:HE1	10	0.25
(1,417)	1:156:A:SER:HB2	1:135:A:LYS:HE3	7	0.25
(1,404)	1:56:A:LYS:HA	1:144:A:MET:HE1	16	0.25
(1,393)	1:32:A:ALA:HA	1:31:A:VAL:HG21	9	0.25
(1,393)	1:32:A:ALA:HA	1:31:A:VAL:HG22	10	0.25
(1,393)	1:31:A:VAL:HG11	1:32:A:ALA:HA	11	0.25
(1,385)	1:56:A:LYS:HB2	1:183:A:PRO:HA	2	0.25
(1,379)	1:72:A:VAL:HA	1:71:A:LEU:HB3	15	0.25
(1,376)	1:30:A:LYS:HB3	1:31:A:VAL:HA	1	0.25
(1,376)	1:30:A:LYS:HB3	1:31:A:VAL:HA	8	0.25
(1,376)	1:30:A:LYS:HB3	1:31:A:VAL:HA	11	0.25
(1,376)	1:30:A:LYS:HB3	1:31:A:VAL:HA	17	0.25
(1,374)	1:33:A:SER:HB2	1:30:A:LYS:HE2	13	0.25
(1,374)	1:33:A:SER:HB2	1:30:A:LYS:HE2	15	0.25
(1,371)	1:19:A:LEU:HB2	1:18:A:SER:HB2	13	0.25
(1,369)	1:16:A:SER:HB3	1:4:A:LYS:HG2	17	0.25
(1,367)	1:121:A:SER:HB2	1:185:A:GLU:HA	1	0.25
(1,367)	1:121:A:SER:HB2	1:185:A:GLU:HA	12	0.25
(1,357)	1:34:A:TYR:HA	1:30:A:LYS:HE3	6	0.25
(1,357)	1:34:A:TYR:HA	1:30:A:LYS:HE3	18	0.25
(1,353)	1:67:A:LYS:HE3	1:67:A:LYS:HA	16	0.25
(1,351)	1:56:A:LYS:HG2	1:56:A:LYS:HA	11	0.25
(1,349)	1:8:A:VAL:HG21	1:8:A:VAL:HA	18	0.25
(1,345)	1:159:A:GLU:HG2	1:162:A:SER:HB2	5	0.25
(1,345)	1:159:A:GLU:HG2	1:162:A:SER:HB2	10	0.25
(1,295)	1:50:A:LYS:HE2	1:50:A:LYS:HA	5	0.25
(1,294)	1:22:A:ASP:HB2	1:19:A:LEU:HA	3	0.25
(1,282)	1:37:A:LYS:HE3	1:67:A:LYS:HG2	2	0.25
(1,282)	1:37:A:LYS:HE2	1:67:A:LYS:HG2	12	0.25
(1,278)	1:30:A:LYS:HG2	1:30:A:LYS:HE2	8	0.25
(1,278)	1:30:A:LYS:HG2	1:30:A:LYS:HE2	17	0.25
(1,272)	1:87:A:LYS:HE3	1:111:A:ALA:HB1	20	0.25
(1,271)	1:87:A:LYS:HE2	1:111:A:ALA:HB1	4	0.25
(1,243)	1:4:A:LYS:HB2	1:4:A:LYS:HE3	11	0.25
(1,243)	1:4:A:LYS:HB2	1:4:A:LYS:HE3	15	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,243)	1:4:A:LYS:HB2	1:4:A:LYS:HE2	19	0.25
(1,197)	1:68:A:ARG:HG2	1:67:A:LYS:HE2	16	0.25
(1,190)	1:126:A:ILE:HD11	1:128:A:ARG:HG3	18	0.25
(1,168)	1:107:A:LYS:HG2	1:106:A:GLN:HG3	8	0.25
(1,149)	1:30:A:LYS:HG2	1:30:A:LYS:HB2	10	0.25
(1,149)	1:30:A:LYS:HG2	1:30:A:LYS:HB2	14	0.25
(1,149)	1:30:A:LYS:HG2	1:30:A:LYS:HB2	18	0.25
(1,142)	1:56:A:LYS:HG2	1:56:A:LYS:HD2	7	0.25
(1,142)	1:56:A:LYS:HG2	1:56:A:LYS:HD2	19	0.25
(1,79)	1:116:A:LYS:H	1:116:A:LYS:HD3	3	0.25
(1,79)	1:116:A:LYS:H	1:116:A:LYS:HD3	10	0.25
(1,37)	1:169:A:ASP:H	1:167:A:ILE:HD13	10	0.25
(1,37)	1:169:A:ASP:H	1:167:A:ILE:HD13	11	0.25
(1,33)	1:107:A:LYS:H	1:106:A:GLN:HG3	1	0.25
(1,32)	1:139:A:LEU:H	1:138:A:PHE:HD1	17	0.25
(1,31)	1:139:A:LEU:H	1:149:A:MET:HG3	12	0.25
(1,30)	1:139:A:LEU:H	1:139:A:LEU:HD21	9	0.25
(1,3529)	1:78:A:PHE:HE1	1:78:A:PHE:HB2	2	0.24
(1,3529)	1:78:A:PHE:HE1	1:78:A:PHE:HB2	14	0.24
(1,3529)	1:78:A:PHE:HE1	1:78:A:PHE:HB2	15	0.24
(1,3517)	1:63:A:LYS:HG2	1:44:A:TYR:HE2	9	0.24
(1,3514)	1:35:A:GLU:HA	1:34:A:TYR:HE2	14	0.24
(1,3512)	1:101:A:LEU:HD13	1:108:A:TYR:HE2	14	0.24
(1,3506)	1:108:A:TYR:HD2	1:108:A:TYR:HE2	1	0.24
(1,3506)	1:108:A:TYR:HD2	1:108:A:TYR:HE2	2	0.24
(1,3506)	1:108:A:TYR:HD2	1:108:A:TYR:HE2	3	0.24
(1,3506)	1:108:A:TYR:HD2	1:108:A:TYR:HE2	5	0.24
(1,3506)	1:108:A:TYR:HD2	1:108:A:TYR:HE2	7	0.24
(1,3506)	1:108:A:TYR:HD2	1:108:A:TYR:HE2	9	0.24
(1,3506)	1:108:A:TYR:HD2	1:108:A:TYR:HE2	12	0.24
(1,3506)	1:108:A:TYR:HD2	1:108:A:TYR:HE2	16	0.24
(1,3506)	1:108:A:TYR:HD2	1:108:A:TYR:HE2	18	0.24
(1,3506)	1:108:A:TYR:HD2	1:108:A:TYR:HE2	20	0.24
(1,3488)	1:149:A:MET:HE3	1:138:A:PHE:HE2	2	0.24
(1,3450)	1:61:A:PHE:HD2	1:55:A:MET:HG2	1	0.24
(1,3450)	1:61:A:PHE:HD2	1:55:A:MET:HG2	18	0.24
(1,3450)	1:61:A:PHE:HD2	1:55:A:MET:HG2	20	0.24
(1,3422)	1:176:A:ARG:HG3	1:176:A:ARG:HB2	3	0.24
(1,3422)	1:176:A:ARG:HG3	1:176:A:ARG:HB2	5	0.24
(1,3422)	1:176:A:ARG:HG3	1:176:A:ARG:HB2	11	0.24
(1,3383)	1:42:A:GLU:HG3	1:38:A:VAL:HG23	3	0.24
(1,3371)	1:67:A:LYS:HD2	1:67:A:LYS:HB3	7	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3370)	1:174:A:LEU:HD22	1:171:A:ILE:HA	6	0.24
(1,3370)	1:174:A:LEU:HD23	1:171:A:ILE:HA	17	0.24
(1,3301)	1:154:A:ALA:HB2	1:163:A:TRP:HD1	3	0.24
(1,3301)	1:154:A:ALA:HB2	1:163:A:TRP:HD1	5	0.24
(1,3301)	1:154:A:ALA:HB1	1:163:A:TRP:HD1	16	0.24
(1,3277)	1:111:A:ALA:HB2	1:100:A:PHE:HD2	4	0.24
(1,3276)	1:111:A:ALA:HB3	1:109:A:ILE:H	9	0.24
(1,3272)	1:98:A:LEU:H	1:97:A:ILE:HG22	6	0.24
(1,3272)	1:98:A:LEU:H	1:97:A:ILE:HG23	14	0.24
(1,3244)	1:94:A:LEU:HD12	1:92:A:VAL:H	4	0.24
(1,3236)	1:98:A:LEU:HD23	1:139:A:LEU:HB2	15	0.24
(1,3222)	1:77:A:VAL:HG23	1:78:A:PHE:H	3	0.24
(1,3222)	1:77:A:VAL:HG21	1:78:A:PHE:H	15	0.24
(1,3221)	1:152:A:VAL:HG23	1:150:A:VAL:H	3	0.24
(1,3190)	1:36:A:LYS:HD2	1:33:A:SER:HA	8	0.24
(1,3183)	1:144:A:MET:HA	1:145:A:THR:HG21	13	0.24
(1,3173)	1:101:A:LEU:HD23	1:110:A:PHE:HD1	3	0.24
(1,3173)	1:101:A:LEU:HD22	1:110:A:PHE:HD1	16	0.24
(1,3103)	1:73:A:ARG:HD2	1:166:A:ILE:HG21	13	0.24
(1,3103)	1:73:A:ARG:HD2	1:166:A:ILE:HG23	19	0.24
(1,3078)	1:134:A:GLU:HG3	1:134:A:GLU:HA	20	0.24
(1,3052)	1:55:A:MET:HE2	1:61:A:PHE:HZ	14	0.24
(1,3052)	1:55:A:MET:HE3	1:61:A:PHE:HZ	19	0.24
(1,3043)	1:88:A:GLU:HB3	1:78:A:PHE:HD1	12	0.24
(1,2988)	1:43:A:ILE:HD13	1:40:A:LEU:HA	10	0.24
(1,2988)	1:43:A:ILE:HD11	1:40:A:LEU:HA	14	0.24
(1,2955)	1:145:A:THR:HG22	1:146:A:ASP:HB3	15	0.24
(1,2936)	1:159:A:GLU:HG2	1:159:A:GLU:HB2	19	0.24
(1,2929)	1:166:A:ILE:HB	1:169:A:ASP:HB3	6	0.24
(1,2924)	1:166:A:ILE:HD13	1:163:A:TRP:HA	17	0.24
(1,2920)	1:141:A:SER:HB2	1:56:A:LYS:HB3	10	0.24
(1,2918)	1:141:A:SER:HB2	1:140:A:ILE:HG23	6	0.24
(1,2904)	1:140:A:ILE:HD13	1:128:A:ARG:HB3	18	0.24
(1,2896)	1:176:A:ARG:HB3	1:176:A:ARG:HA	1	0.24
(1,2896)	1:176:A:ARG:HB3	1:176:A:ARG:HA	4	0.24
(1,2896)	1:176:A:ARG:HB3	1:176:A:ARG:HA	10	0.24
(1,2896)	1:176:A:ARG:HB3	1:176:A:ARG:HA	13	0.24
(1,2882)	1:145:A:THR:HB	1:144:A:MET:HB2	1	0.24
(1,2843)	1:31:A:VAL:HA	1:34:A:TYR:HE1	13	0.24
(1,2832)	1:119:A:VAL:HA	1:120:A:ILE:HD12	16	0.24
(1,2819)	1:121:A:SER:HA	1:121:A:SER:HB2	11	0.24
(1,2813)	1:157:A:LYS:HA	1:134:A:GLU:HG3	11	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2756)	1:63:A:LYS:HA	1:44:A:TYR:HE2	9	0.24
(1,2756)	1:63:A:LYS:HA	1:44:A:TYR:HE2	16	0.24
(1,2727)	1:139:A:LEU:HD21	1:127:A:VAL:HA	10	0.24
(1,2713)	1:66:A:LEU:HD23	1:66:A:LEU:HA	12	0.24
(1,2661)	1:101:A:LEU:HD13	1:108:A:TYR:HA	3	0.24
(1,2661)	1:101:A:LEU:HD11	1:108:A:TYR:HA	15	0.24
(1,2661)	1:101:A:LEU:HD12	1:108:A:TYR:HA	19	0.24
(1,2661)	1:101:A:LEU:HD11	1:108:A:TYR:HA	20	0.24
(1,2657)	1:108:A:TYR:HA	1:109:A:ILE:HD11	11	0.24
(1,2657)	1:108:A:TYR:HA	1:109:A:ILE:HD12	12	0.24
(1,2635)	1:6:A:ASN:HA	1:9:A:GLU:HB3	18	0.24
(1,2631)	1:80:A:LYS:HA	1:86:A:LEU:HD13	7	0.24
(1,2631)	1:80:A:LYS:HA	1:86:A:LEU:HD11	16	0.24
(1,2464)	1:46:A:LYS:HE3	1:43:A:ILE:HG12	6	0.24
(1,2464)	1:46:A:LYS:HE3	1:43:A:ILE:HG12	7	0.24
(1,2464)	1:46:A:LYS:HE3	1:43:A:ILE:HG12	10	0.24
(1,2464)	1:46:A:LYS:HE3	1:43:A:ILE:HG12	13	0.24
(1,2464)	1:46:A:LYS:HE3	1:43:A:ILE:HG12	14	0.24
(1,2464)	1:46:A:LYS:HE3	1:43:A:ILE:HG12	16	0.24
(1,2464)	1:46:A:LYS:HE3	1:43:A:ILE:HG12	18	0.24
(1,2464)	1:46:A:LYS:HE3	1:43:A:ILE:HG12	20	0.24
(1,2317)	1:67:A:LYS:HB3	1:44:A:TYR:HE2	16	0.24
(1,2299)	1:102:A:GLN:HB3	1:89:A:VAL:HG11	12	0.24
(1,2299)	1:102:A:GLN:HB3	1:89:A:VAL:HG13	17	0.24
(1,2279)	1:123:A:LYS:HB2	1:174:A:LEU:HD12	10	0.24
(1,2278)	1:123:A:LYS:HB2	1:174:A:LEU:HD23	9	0.24
(1,2253)	1:176:A:ARG:HB3	1:173:A:THR:HG22	15	0.24
(1,2241)	1:63:A:LYS:HD3	1:63:A:LYS:HA	9	0.24
(1,2241)	1:63:A:LYS:HD3	1:63:A:LYS:HA	19	0.24
(1,2241)	1:63:A:LYS:HD3	1:63:A:LYS:HA	20	0.24
(1,2197)	1:68:A:ARG:HB3	1:68:A:ARG:HD3	4	0.24
(1,2185)	1:93:A:LEU:HD21	1:170:A:THR:HB	6	0.24
(1,2135)	1:126:A:ILE:HG13	1:140:A:ILE:HD12	20	0.24
(1,2119)	1:137:A:LEU:HD13	1:163:A:TRP:HB3	12	0.24
(1,2119)	1:137:A:LEU:HD13	1:163:A:TRP:HB3	15	0.24
(1,2030)	1:124:A:LYS:HG3	1:123:A:LYS:HB3	6	0.24
(1,2017)	1:167:A:ILE:HG23	1:93:A:LEU:HD11	17	0.24
(1,1994)	1:174:A:LEU:HD12	1:171:A:ILE:HB	15	0.24
(1,1968)	1:46:A:LYS:HG2	1:46:A:LYS:HE3	2	0.24
(1,1968)	1:46:A:LYS:HG2	1:46:A:LYS:HE3	10	0.24
(1,1968)	1:46:A:LYS:HG2	1:46:A:LYS:HE3	13	0.24
(1,1968)	1:46:A:LYS:HG2	1:46:A:LYS:HE3	20	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1958)	1:66:A:LEU:HD12	1:44:A:TYR:HB2	5	0.24
(1,1940)	1:50:A:LYS:HG3	1:50:A:LYS:HA	1	0.24
(1,1906)	1:86:A:LEU:HD12	1:78:A:PHE:HE2	15	0.24
(1,1891)	1:174:A:LEU:HD23	1:123:A:LYS:HE2	3	0.24
(1,1835)	1:173:A:THR:HG21	1:176:A:ARG:HD3	7	0.24
(1,1815)	1:173:A:THR:HG23	1:176:A:ARG:HB2	18	0.24
(1,1780)	1:150:A:VAL:HG13	1:150:A:VAL:HG23	5	0.24
(1,1780)	1:150:A:VAL:HG11	1:150:A:VAL:HG21	18	0.24
(1,1779)	1:79:A:LEU:H	1:89:A:VAL:HG11	13	0.24
(1,1779)	1:79:A:LEU:H	1:89:A:VAL:HG12	14	0.24
(1,1779)	1:79:A:LEU:H	1:89:A:VAL:HG12	17	0.24
(1,1767)	1:86:A:LEU:HD22	1:86:A:LEU:HB2	2	0.24
(1,1767)	1:86:A:LEU:HD22	1:86:A:LEU:HB2	9	0.24
(1,1763)	1:99:A:VAL:HG11	1:101:A:LEU:HG	13	0.24
(1,1763)	1:99:A:VAL:HG12	1:101:A:LEU:HG	16	0.24
(1,1752)	1:89:A:VAL:HG11	1:79:A:LEU:HD13	13	0.24
(1,1748)	1:72:A:VAL:HG22	1:95:A:THR:HA	10	0.24
(1,1687)	1:111:A:ALA:HB2	1:89:A:VAL:HG22	19	0.24
(1,1685)	1:26:A:ALA:HB1	1:20:A:VAL:HA	6	0.24
(1,1684)	1:32:A:ALA:HB2	1:32:A:ALA:HA	9	0.24
(1,1672)	1:109:A:ILE:HG23	1:104:A:LYS:HB2	12	0.24
(1,1668)	1:97:A:ILE:HG23	1:121:A:SER:HB3	1	0.24
(1,1652)	1:131:A:ALA:HB1	1:131:A:ALA:HA	13	0.24
(1,1649)	1:167:A:ILE:HG21	1:127:A:VAL:HB	11	0.24
(1,1649)	1:167:A:ILE:HG21	1:127:A:VAL:HB	14	0.24
(1,1643)	1:52:A:ILE:HG22	1:52:A:ILE:HB	15	0.24
(1,1636)	1:126:A:ILE:HD11	1:140:A:ILE:HG12	15	0.24
(1,1620)	1:182:A:ILE:HG23	1:181:A:GLY:HA2	14	0.24
(1,1608)	1:60:A:MET:HE2	1:52:A:ILE:HG21	6	0.24
(1,1608)	1:60:A:MET:HE3	1:52:A:ILE:HG23	16	0.24
(1,1604)	1:149:A:MET:HE2	1:138:A:PHE:HA	1	0.24
(1,1604)	1:149:A:MET:HE3	1:138:A:PHE:HA	4	0.24
(1,1604)	1:149:A:MET:HE2	1:138:A:PHE:HA	5	0.24
(1,1603)	1:149:A:MET:HE1	1:149:A:MET:HA	1	0.24
(1,1594)	1:55:A:MET:HE1	1:120:A:ILE:HA	7	0.24
(1,1590)	1:55:A:MET:HE1	1:55:A:MET:HG3	4	0.24
(1,1583)	1:164:A:ILE:HG22	1:129:A:GLU:HG3	2	0.24
(1,1582)	1:164:A:ILE:HG23	1:129:A:GLU:HG2	7	0.24
(1,1553)	1:97:A:ILE:HD13	1:119:A:VAL:HG21	1	0.24
(1,1534)	1:140:A:ILE:HD12	1:140:A:ILE:HG13	18	0.24
(1,1525)	1:166:A:ILE:HD13	1:169:A:ASP:HB3	1	0.24
(1,1525)	1:166:A:ILE:HD13	1:169:A:ASP:HB3	18	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1522)	1:166:A:ILE:HD13	1:73:A:ARG:HB2	15	0.24
(1,1504)	1:163:A:TRP:HE1	1:75:A:GLY:HA2	13	0.24
(1,1476)	1:142:A:MET:H	1:142:A:MET:HG3	18	0.24
(1,1465)	1:5:A:ASP:H	1:5:A:ASP:HA	2	0.24
(1,1463)	1:85:A:ARG:H	1:85:A:ARG:HG3	15	0.24
(1,1415)	1:83:A:ALA:H	1:81:A:ASN:HA	11	0.24
(1,1400)	1:69:A:LYS:H	1:68:A:ARG:HB3	7	0.24
(1,1390)	1:184:A:SER:H	1:59:A:GLN:HG2	10	0.24
(1,1390)	1:184:A:SER:H	1:59:A:GLN:HG2	15	0.24
(1,1388)	1:165:A:GLN:HE22	1:166:A:ILE:HG12	19	0.24
(1,1289)	1:93:A:LEU:H	1:98:A:LEU:HD22	12	0.24
(1,1284)	1:44:A:TYR:H	1:44:A:TYR:HD2	12	0.24
(1,1268)	1:153:A:HIS:H	1:152:A:VAL:HG12	13	0.24
(1,1251)	1:84:A:GLY:H	1:83:A:ALA:HB3	1	0.24
(1,1251)	1:84:A:GLY:H	1:83:A:ALA:HB1	15	0.24
(1,1251)	1:84:A:GLY:H	1:83:A:ALA:HB3	19	0.24
(1,1251)	1:84:A:GLY:H	1:83:A:ALA:HB3	20	0.24
(1,1241)	1:96:A:ASP:H	1:95:A:THR:HG22	14	0.24
(1,1117)	1:65:A:ASP:H	1:64:A:GLU:HB2	7	0.24
(1,1074)	1:162:A:SER:H	1:161:A:ASN:HB3	4	0.24
(1,1074)	1:162:A:SER:H	1:161:A:ASN:HB3	9	0.24
(1,1074)	1:162:A:SER:H	1:161:A:ASN:HB3	17	0.24
(1,1060)	1:172:A:ASN:H	1:171:A:ILE:HG23	19	0.24
(1,1057)	1:172:A:ASN:H	1:172:A:ASN:HB3	4	0.24
(1,1039)	1:170:A:THR:H	1:171:A:ILE:HD13	9	0.24
(1,1039)	1:170:A:THR:H	1:171:A:ILE:HD12	12	0.24
(1,992)	1:27:A:VAL:H	1:26:A:ALA:HB2	9	0.24
(1,981)	1:83:A:ALA:H	1:81:A:ASN:HB3	3	0.24
(1,981)	1:83:A:ALA:H	1:81:A:ASN:HB3	6	0.24
(1,981)	1:83:A:ALA:H	1:81:A:ASN:HB3	14	0.24
(1,981)	1:83:A:ALA:H	1:81:A:ASN:HB3	15	0.24
(1,981)	1:83:A:ALA:H	1:81:A:ASN:HB3	19	0.24
(1,950)	1:89:A:VAL:H	1:88:A:GLU:HG3	5	0.24
(1,950)	1:89:A:VAL:H	1:88:A:GLU:HG3	6	0.24
(1,950)	1:89:A:VAL:H	1:88:A:GLU:HG3	16	0.24
(1,950)	1:89:A:VAL:H	1:88:A:GLU:HG3	20	0.24
(1,945)	1:89:A:VAL:H	1:78:A:PHE:HD1	4	0.24
(1,914)	1:50:A:LYS:H	1:50:A:LYS:HG3	6	0.24
(1,914)	1:50:A:LYS:H	1:50:A:LYS:HG3	19	0.24
(1,914)	1:50:A:LYS:H	1:50:A:LYS:HG3	20	0.24
(1,912)	1:50:A:LYS:H	1:50:A:LYS:HB3	12	0.24
(1,897)	1:176:A:ARG:H	1:176:A:ARG:HG3	1	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,827)	1:86:A:LEU:H	1:86:A:LEU:HD23	1	0.24
(1,825)	1:86:A:LEU:H	1:86:A:LEU:HB3	18	0.24
(1,820)	1:86:A:LEU:H	1:85:A:ARG:H	3	0.24
(1,807)	1:163:A:TRP:H	1:163:A:TRP:HB3	1	0.24
(1,807)	1:163:A:TRP:H	1:163:A:TRP:HB3	3	0.24
(1,807)	1:163:A:TRP:H	1:163:A:TRP:HB3	4	0.24
(1,807)	1:163:A:TRP:H	1:163:A:TRP:HB3	8	0.24
(1,807)	1:163:A:TRP:H	1:163:A:TRP:HB3	12	0.24
(1,807)	1:163:A:TRP:H	1:163:A:TRP:HB3	16	0.24
(1,807)	1:163:A:TRP:H	1:163:A:TRP:HB3	18	0.24
(1,784)	1:92:A:VAL:H	1:98:A:LEU:HD21	5	0.24
(1,784)	1:92:A:VAL:H	1:98:A:LEU:HD22	18	0.24
(1,782)	1:92:A:VAL:H	1:99:A:VAL:HB	9	0.24
(1,782)	1:92:A:VAL:H	1:99:A:VAL:HB	10	0.24
(1,697)	1:137:A:LEU:H	1:137:A:LEU:HG	17	0.24
(1,658)	1:122:A:LEU:H	1:97:A:ILE:HB	2	0.24
(1,658)	1:122:A:LEU:H	1:97:A:ILE:HB	8	0.24
(1,658)	1:122:A:LEU:H	1:97:A:ILE:HB	12	0.24
(1,658)	1:122:A:LEU:H	1:97:A:ILE:HB	18	0.24
(1,495)	1:10:A:GLN:HB3	1:10:A:GLN:HG2	3	0.24
(1,495)	1:10:A:GLN:HB3	1:10:A:GLN:HG2	10	0.24
(1,493)	1:87:A:LYS:HG2	1:87:A:LYS:HD3	1	0.24
(1,493)	1:87:A:LYS:HG2	1:87:A:LYS:HD3	3	0.24
(1,493)	1:87:A:LYS:HG2	1:87:A:LYS:HD3	5	0.24
(1,493)	1:87:A:LYS:HG2	1:87:A:LYS:HD3	6	0.24
(1,493)	1:87:A:LYS:HG2	1:87:A:LYS:HD3	9	0.24
(1,493)	1:87:A:LYS:HG2	1:87:A:LYS:HD3	10	0.24
(1,493)	1:87:A:LYS:HG2	1:87:A:LYS:HD3	13	0.24
(1,493)	1:87:A:LYS:HG2	1:87:A:LYS:HD3	16	0.24
(1,492)	1:95:A:THR:HG22	1:10:A:GLN:HB2	9	0.24
(1,477)	1:50:A:LYS:HD2	1:50:A:LYS:HE3	7	0.24
(1,477)	1:50:A:LYS:HD2	1:50:A:LYS:HE3	13	0.24
(1,459)	1:15:A:GLN:HB2	1:4:A:LYS:HE3	1	0.24
(1,458)	1:15:A:GLN:HB3	1:4:A:LYS:HE2	14	0.24
(1,449)	1:31:A:VAL:HG12	1:30:A:LYS:HD3	15	0.24
(1,446)	1:22:A:ASP:HA	1:21:A:LYS:HG3	6	0.24
(1,440)	1:36:A:LYS:HE2	1:36:A:LYS:HD3	17	0.24
(1,432)	1:67:A:LYS:HE3	1:44:A:TYR:HD1	8	0.24
(1,418)	1:149:A:MET:HG3	1:149:A:MET:HE1	16	0.24
(1,393)	1:32:A:ALA:HA	1:31:A:VAL:HG21	3	0.24
(1,393)	1:31:A:VAL:HG11	1:32:A:ALA:HA	17	0.24
(1,385)	1:56:A:LYS:HB2	1:183:A:PRO:HA	12	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,376)	1:30:A:LYS:HB3	1:31:A:VAL:HA	3	0.24
(1,376)	1:30:A:LYS:HB3	1:31:A:VAL:HA	20	0.24
(1,369)	1:19:A:LEU:HB2	1:18:A:SER:HB2	20	0.24
(1,367)	1:121:A:SER:HB2	1:185:A:GLU:HA	17	0.24
(1,367)	1:121:A:SER:HB2	1:185:A:GLU:HA	19	0.24
(1,351)	1:56:A:LYS:HG2	1:56:A:LYS:HA	7	0.24
(1,347)	1:162:A:SER:HB3	1:166:A:ILE:HD11	20	0.24
(1,334)	1:7:A:GLU:HB2	1:7:A:GLU:HA	16	0.24
(1,302)	1:25:A:GLY:HA2	1:28:A:ASP:HB3	13	0.24
(1,299)	1:85:A:ARG:HD2	1:84:A:GLY:HA2	1	0.24
(1,295)	1:50:A:LYS:HE2	1:50:A:LYS:HA	8	0.24
(1,294)	1:22:A:ASP:HB2	1:17:A:LEU:HA	2	0.24
(1,278)	1:30:A:LYS:HG2	1:30:A:LYS:HE2	5	0.24
(1,267)	1:22:A:ASP:HB3	1:22:A:ASP:HA	1	0.24
(1,267)	1:177:A:ASP:HB3	1:177:A:ASP:HA	8	0.24
(1,267)	1:22:A:ASP:HB3	1:22:A:ASP:HA	10	0.24
(1,264)	1:81:A:ASN:HB2	1:79:A:LEU:HB3	9	0.24
(1,257)	1:103:A:GLU:HG2	1:106:A:GLN:HA	10	0.24
(1,257)	1:103:A:GLU:HG2	1:106:A:GLN:HA	14	0.24
(1,256)	1:64:A:GLU:HG3	1:67:A:LYS:HD3	14	0.24
(1,246)	1:87:A:LYS:HB2	1:79:A:LEU:HD21	4	0.24
(1,243)	1:4:A:LYS:HB2	1:4:A:LYS:HE3	7	0.24
(1,223)	1:159:A:GLU:HB2	1:162:A:SER:HB3	17	0.24
(1,214)	1:15:A:GLN:HB2	1:15:A:GLN:HG3	3	0.24
(1,198)	1:56:A:LYS:HD3	1:121:A:SER:HB2	17	0.24
(1,197)	1:68:A:ARG:HG2	1:67:A:LYS:HE2	18	0.24
(1,161)	1:71:A:LEU:HD13	1:93:A:LEU:H	12	0.24
(1,149)	1:30:A:LYS:HG2	1:30:A:LYS:HB2	2	0.24
(1,149)	1:30:A:LYS:HG2	1:30:A:LYS:HB2	20	0.24
(1,142)	1:56:A:LYS:HG2	1:56:A:LYS:HD2	2	0.24
(1,142)	1:56:A:LYS:HG2	1:56:A:LYS:HD2	5	0.24
(1,142)	1:56:A:LYS:HG2	1:56:A:LYS:HD2	11	0.24
(1,116)	1:89:A:VAL:HG12	1:87:A:LYS:HD3	8	0.24
(1,92)	1:17:A:LEU:H	1:16:A:SER:HB3	8	0.24
(1,87)	1:9:A:GLU:H	1:8:A:VAL:HG23	9	0.24
(1,79)	1:116:A:LYS:H	1:116:A:LYS:HD2	15	0.24
(1,79)	1:116:A:LYS:H	1:116:A:LYS:HD3	19	0.24
(1,57)	1:75:A:GLY:H	1:77:A:VAL:HG21	3	0.24
(1,56)	1:106:A:GLN:H	1:106:A:GLN:HG3	8	0.24
(1,56)	1:106:A:GLN:H	1:106:A:GLN:HG3	16	0.24
(1,56)	1:106:A:GLN:H	1:106:A:GLN:HG3	17	0.24
(1,56)	1:106:A:GLN:H	1:106:A:GLN:HG3	18	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,46)	1:175:A:ASN:H	1:174:A:LEU:HG	3	0.24
(1,46)	1:175:A:ASN:H	1:174:A:LEU:HG	10	0.24
(1,35)	1:119:A:VAL:H	1:120:A:ILE:HG13	3	0.24
(1,35)	1:119:A:VAL:H	1:120:A:ILE:HG13	5	0.24
(1,35)	1:119:A:VAL:H	1:120:A:ILE:HG13	20	0.24
(1,31)	1:139:A:LEU:H	1:149:A:MET:HG3	10	0.24
(1,30)	1:139:A:LEU:H	1:139:A:LEU:HD21	10	0.24
(1,30)	1:139:A:LEU:H	1:139:A:LEU:HD22	18	0.24
(1,22)	1:130:A:VAL:H	1:129:A:GLU:HB3	1	0.24
(2,22)	1:162:A:SER:H	1:159:A:GLU:O	10	0.23
(2,22)	1:162:A:SER:H	1:159:A:GLU:O	16	0.23
(2,11)	1:97:A:ILE:H	1:94:A:LEU:O	16	0.23
(1,3514)	1:35:A:GLU:HA	1:34:A:TYR:HE1	6	0.23
(1,3514)	1:35:A:GLU:HA	1:34:A:TYR:HE1	13	0.23
(1,3506)	1:108:A:TYR:HD2	1:108:A:TYR:HE2	4	0.23
(1,3506)	1:108:A:TYR:HD2	1:108:A:TYR:HE2	6	0.23
(1,3506)	1:108:A:TYR:HD2	1:108:A:TYR:HE2	8	0.23
(1,3506)	1:108:A:TYR:HD2	1:108:A:TYR:HE2	10	0.23
(1,3506)	1:108:A:TYR:HD2	1:108:A:TYR:HE2	11	0.23
(1,3506)	1:108:A:TYR:HD2	1:108:A:TYR:HE2	13	0.23
(1,3506)	1:108:A:TYR:HD2	1:108:A:TYR:HE2	14	0.23
(1,3506)	1:108:A:TYR:HD2	1:108:A:TYR:HE2	15	0.23
(1,3506)	1:108:A:TYR:HD2	1:108:A:TYR:HE2	17	0.23
(1,3506)	1:108:A:TYR:HD2	1:108:A:TYR:HE2	19	0.23
(1,3450)	1:61:A:PHE:HD2	1:55:A:MET:HG2	5	0.23
(1,3423)	1:159:A:GLU:HB2	1:163:A:TRP:HD1	4	0.23
(1,3422)	1:176:A:ARG:HG3	1:176:A:ARG:HB2	1	0.23
(1,3422)	1:176:A:ARG:HG3	1:176:A:ARG:HB2	6	0.23
(1,3422)	1:176:A:ARG:HG3	1:176:A:ARG:HB2	10	0.23
(1,3422)	1:176:A:ARG:HG3	1:176:A:ARG:HB2	13	0.23
(1,3391)	1:11:A:GLU:HB3	1:12:A:ASP:HB2	6	0.23
(1,3370)	1:174:A:LEU:HD23	1:171:A:ILE:HA	10	0.23
(1,3370)	1:174:A:LEU:HD21	1:171:A:ILE:HA	18	0.23
(1,3346)	1:69:A:LYS:HD2	1:97:A:ILE:HD11	9	0.23
(1,3346)	1:69:A:LYS:HD2	1:97:A:ILE:HD11	11	0.23
(1,3301)	1:154:A:ALA:HB2	1:163:A:TRP:HD1	19	0.23
(1,3276)	1:111:A:ALA:HB2	1:109:A:ILE:H	15	0.23
(1,3264)	1:20:A:VAL:HG23	1:27:A:VAL:HA	14	0.23
(1,3247)	1:2:A:MET:HG3	1:2:A:MET:HB3	8	0.23
(1,3244)	1:94:A:LEU:HD12	1:92:A:VAL:H	5	0.23
(1,3244)	1:94:A:LEU:HD11	1:92:A:VAL:H	20	0.23
(1,3238)	1:91:A:ALA:HA	1:98:A:LEU:HD22	11	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3238)	1:91:A:ALA:HA	1:98:A:LEU:HD22	19	0.23
(1,3236)	1:98:A:LEU:HD23	1:139:A:LEU:HB2	12	0.23
(1,3231)	1:86:A:LEU:HD23	1:153:A:HIS:HA	9	0.23
(1,3222)	1:77:A:VAL:HG21	1:78:A:PHE:H	4	0.23
(1,3222)	1:77:A:VAL:HG22	1:78:A:PHE:H	16	0.23
(1,3216)	1:15:A:GLN:HB3	1:2:A:MET:HG3	20	0.23
(1,3190)	1:36:A:LYS:HD2	1:33:A:SER:HA	5	0.23
(1,3173)	1:101:A:LEU:HD22	1:110:A:PHE:HD1	4	0.23
(1,3159)	1:149:A:MET:HB3	1:140:A:ILE:HD11	15	0.23
(1,3159)	1:149:A:MET:HB3	1:140:A:ILE:HD13	17	0.23
(1,3100)	1:128:A:ARG:HB3	1:128:A:ARG:HD2	6	0.23
(1,3094)	1:66:A:LEU:HB3	1:61:A:PHE:HE1	8	0.23
(1,3092)	1:157:A:LYS:HA	1:157:A:LYS:HE2	9	0.23
(1,3055)	1:144:A:MET:HG3	1:145:A:THR:HG21	3	0.23
(1,3046)	1:54:A:ARG:HA	1:59:A:GLN:HG2	3	0.23
(1,3046)	1:54:A:ARG:HA	1:59:A:GLN:HG2	5	0.23
(1,3046)	1:54:A:ARG:HA	1:59:A:GLN:HG2	8	0.23
(1,3022)	1:140:A:ILE:HD13	1:138:A:PHE:HA	6	0.23
(1,3008)	1:50:A:LYS:HD3	1:50:A:LYS:HA	4	0.23
(1,2988)	1:43:A:ILE:HD13	1:40:A:LEU:HA	2	0.23
(1,2943)	1:53:A:MET:HE2	1:53:A:MET:HG3	12	0.23
(1,2936)	1:159:A:GLU:HG2	1:159:A:GLU:HB2	13	0.23
(1,2912)	1:102:A:GLN:HA	1:89:A:VAL:HG23	1	0.23
(1,2900)	1:142:A:MET:HB2	1:126:A:ILE:HG12	15	0.23
(1,2896)	1:176:A:ARG:HB3	1:176:A:ARG:HA	3	0.23
(1,2896)	1:176:A:ARG:HB3	1:176:A:ARG:HA	6	0.23
(1,2876)	1:173:A:THR:HG23	1:173:A:THR:HB	5	0.23
(1,2876)	1:173:A:THR:HG22	1:173:A:THR:HB	6	0.23
(1,2876)	1:173:A:THR:HG23	1:173:A:THR:HB	9	0.23
(1,2876)	1:173:A:THR:HG22	1:173:A:THR:HB	10	0.23
(1,2876)	1:173:A:THR:HG22	1:173:A:THR:HB	13	0.23
(1,2876)	1:173:A:THR:HG23	1:173:A:THR:HB	20	0.23
(1,2843)	1:31:A:VAL:HA	1:34:A:TYR:HE1	6	0.23
(1,2819)	1:121:A:SER:HA	1:121:A:SER:HB2	17	0.23
(1,2783)	1:117:A:SER:HA	1:55:A:MET:HB3	2	0.23
(1,2774)	1:77:A:VAL:HA	1:89:A:VAL:HG23	2	0.23
(1,2768)	1:159:A:GLU:HG2	1:159:A:GLU:HA	2	0.23
(1,2756)	1:63:A:LYS:HA	1:44:A:TYR:HE2	14	0.23
(1,2727)	1:139:A:LEU:HD23	1:127:A:VAL:HA	7	0.23
(1,2727)	1:139:A:LEU:HD21	1:127:A:VAL:HA	12	0.23
(1,2708)	1:15:A:GLN:HB3	1:15:A:GLN:HA	15	0.23
(1,2661)	1:101:A:LEU:HD11	1:108:A:TYR:HA	1	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2635)	1:6:A:ASN:HA	1:9:A:GLU:HB3	4	0.23
(1,2631)	1:80:A:LYS:HA	1:86:A:LEU:HD12	19	0.23
(1,2598)	1:32:A:ALA:HA	1:35:A:GLU:HA	11	0.23
(1,2508)	1:73:A:ARG:HD2	1:166:A:ILE:HG12	20	0.23
(1,2493)	1:128:A:ARG:HB2	1:128:A:ARG:HD3	9	0.23
(1,2464)	1:46:A:LYS:HE3	1:43:A:ILE:HG12	1	0.23
(1,2464)	1:46:A:LYS:HE3	1:43:A:ILE:HG12	5	0.23
(1,2464)	1:46:A:LYS:HE3	1:43:A:ILE:HG12	17	0.23
(1,2441)	1:146:A:ASP:HB2	1:147:A:PRO:HD3	12	0.23
(1,2407)	1:38:A:VAL:HG12	1:41:A:ASN:HB3	6	0.23
(1,2359)	1:134:A:GLU:HG3	1:157:A:LYS:HB3	3	0.23
(1,2356)	1:128:A:ARG:HB3	1:130:A:VAL:H	13	0.23
(1,2291)	1:4:A:LYS:HB3	1:9:A:GLU:HA	12	0.23
(1,2279)	1:123:A:LYS:HB2	1:174:A:LEU:HD13	9	0.23
(1,2271)	1:144:A:MET:HG2	1:144:A:MET:HB2	3	0.23
(1,2271)	1:144:A:MET:HG2	1:144:A:MET:HB2	9	0.23
(1,2271)	1:144:A:MET:HG2	1:144:A:MET:HB2	10	0.23
(1,2271)	1:144:A:MET:HG2	1:144:A:MET:HB2	13	0.23
(1,2271)	1:144:A:MET:HG2	1:144:A:MET:HB2	15	0.23
(1,2271)	1:144:A:MET:HG2	1:144:A:MET:HB2	20	0.23
(1,2241)	1:63:A:LYS:HD3	1:63:A:LYS:HA	8	0.23
(1,2241)	1:63:A:LYS:HD3	1:63:A:LYS:HA	10	0.23
(1,2197)	1:68:A:ARG:HB3	1:68:A:ARG:HD3	7	0.23
(1,2189)	1:171:A:ILE:HG23	1:123:A:LYS:HD3	6	0.23
(1,2189)	1:171:A:ILE:HG22	1:123:A:LYS:HD3	16	0.23
(1,2135)	1:126:A:ILE:HG13	1:140:A:ILE:HD13	5	0.23
(1,2119)	1:137:A:LEU:HD11	1:163:A:TRP:HB3	1	0.23
(1,2119)	1:137:A:LEU:HD12	1:163:A:TRP:HB3	18	0.23
(1,2099)	1:66:A:LEU:HG	1:97:A:ILE:HG13	4	0.23
(1,2099)	1:66:A:LEU:HG	1:97:A:ILE:HG13	17	0.23
(1,1989)	1:174:A:LEU:HD13	1:123:A:LYS:HG3	17	0.23
(1,1959)	1:66:A:LEU:HD12	1:66:A:LEU:HA	13	0.23
(1,1958)	1:66:A:LEU:HD11	1:44:A:TYR:HB2	19	0.23
(1,1957)	1:66:A:LEU:HD13	1:66:A:LEU:HB3	1	0.23
(1,1942)	1:37:A:LYS:HG3	1:37:A:LYS:HA	16	0.23
(1,1940)	1:50:A:LYS:HG3	1:50:A:LYS:HA	5	0.23
(1,1940)	1:50:A:LYS:HG3	1:50:A:LYS:HA	7	0.23
(1,1936)	1:56:A:LYS:HG2	1:56:A:LYS:HA	19	0.23
(1,1906)	1:86:A:LEU:HD12	1:78:A:PHE:HE2	13	0.23
(1,1906)	1:86:A:LEU:HD13	1:78:A:PHE:HE2	17	0.23
(1,1897)	1:86:A:LEU:HD21	1:86:A:LEU:HD11	6	0.23
(1,1885)	1:174:A:LEU:HD23	1:12:A:ASP:HB3	13	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1875)	1:66:A:LEU:HD23	1:66:A:LEU:HB2	7	0.23
(1,1865)	1:95:A:THR:HG21	1:170:A:THR:HA	8	0.23
(1,1865)	1:95:A:THR:HG23	1:170:A:THR:HA	14	0.23
(1,1863)	1:95:A:THR:HG23	1:70:A:LYS:HG2	2	0.23
(1,1860)	1:62:A:ALA:HB3	1:110:A:PHE:HE2	6	0.23
(1,1860)	1:62:A:ALA:HB2	1:110:A:PHE:HE2	12	0.23
(1,1860)	1:62:A:ALA:HB1	1:110:A:PHE:HE2	14	0.23
(1,1860)	1:62:A:ALA:HB1	1:110:A:PHE:HE2	19	0.23
(1,1787)	1:101:A:LEU:HD21	1:66:A:LEU:HD13	12	0.23
(1,1780)	1:150:A:VAL:HG11	1:150:A:VAL:HG23	1	0.23
(1,1767)	1:86:A:LEU:HD23	1:86:A:LEU:HB2	3	0.23
(1,1767)	1:86:A:LEU:HD23	1:86:A:LEU:HB2	14	0.23
(1,1767)	1:86:A:LEU:HD21	1:86:A:LEU:HB2	15	0.23
(1,1752)	1:89:A:VAL:HG11	1:79:A:LEU:HD11	9	0.23
(1,1741)	1:119:A:VAL:HG11	1:110:A:PHE:HD1	6	0.23
(1,1687)	1:111:A:ALA:HB2	1:89:A:VAL:HG21	2	0.23
(1,1687)	1:111:A:ALA:HB3	1:89:A:VAL:HG21	15	0.23
(1,1668)	1:97:A:ILE:HG23	1:121:A:SER:HB3	4	0.23
(1,1652)	1:131:A:ALA:HB2	1:131:A:ALA:HA	1	0.23
(1,1652)	1:131:A:ALA:HB1	1:131:A:ALA:HA	5	0.23
(1,1652)	1:131:A:ALA:HB3	1:131:A:ALA:HA	6	0.23
(1,1652)	1:131:A:ALA:HB2	1:131:A:ALA:HA	7	0.23
(1,1652)	1:131:A:ALA:HB3	1:131:A:ALA:HA	11	0.23
(1,1652)	1:131:A:ALA:HB2	1:131:A:ALA:HA	15	0.23
(1,1652)	1:131:A:ALA:HB2	1:131:A:ALA:HA	16	0.23
(1,1649)	1:167:A:ILE:HG22	1:127:A:VAL:HB	1	0.23
(1,1636)	1:126:A:ILE:HD11	1:140:A:ILE:HG12	5	0.23
(1,1636)	1:126:A:ILE:HD12	1:140:A:ILE:HG12	12	0.23
(1,1636)	1:126:A:ILE:HD13	1:140:A:ILE:HG12	13	0.23
(1,1608)	1:60:A:MET:HE1	1:52:A:ILE:HG22	1	0.23
(1,1608)	1:60:A:MET:HE2	1:52:A:ILE:HG23	3	0.23
(1,1608)	1:60:A:MET:HE3	1:52:A:ILE:HG23	11	0.23
(1,1608)	1:60:A:MET:HE2	1:52:A:ILE:HG22	19	0.23
(1,1603)	1:149:A:MET:HE2	1:149:A:MET:HA	6	0.23
(1,1603)	1:149:A:MET:HE3	1:149:A:MET:HA	12	0.23
(1,1583)	1:164:A:ILE:HG22	1:129:A:GLU:HG3	3	0.23
(1,1548)	1:120:A:ILE:HD12	1:139:A:LEU:HB2	9	0.23
(1,1539)	1:140:A:ILE:HD12	1:149:A:MET:HB2	5	0.23
(1,1534)	1:140:A:ILE:HD11	1:140:A:ILE:HG13	12	0.23
(1,1532)	1:52:A:ILE:HD13	1:60:A:MET:HG2	20	0.23
(1,1525)	1:166:A:ILE:HD13	1:169:A:ASP:HB3	8	0.23
(1,1525)	1:166:A:ILE:HD11	1:169:A:ASP:HB3	9	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1525)	1:166:A:ILE:HD11	1:169:A:ASP:HB3	13	0.23
(1,1525)	1:166:A:ILE:HD12	1:169:A:ASP:HB3	15	0.23
(1,1504)	1:163:A:TRP:HE1	1:75:A:GLY:HA2	14	0.23
(1,1476)	1:142:A:MET:H	1:142:A:MET:HG3	4	0.23
(1,1476)	1:142:A:MET:H	1:142:A:MET:HG3	5	0.23
(1,1476)	1:142:A:MET:H	1:142:A:MET:HG3	15	0.23
(1,1464)	1:180:A:GLU:H	1:180:A:GLU:HG2	13	0.23
(1,1457)	1:107:A:LYS:H	1:104:A:LYS:HB2	9	0.23
(1,1457)	1:107:A:LYS:H	1:104:A:LYS:HB2	17	0.23
(1,1415)	1:83:A:ALA:H	1:81:A:ASN:HA	7	0.23
(1,1415)	1:83:A:ALA:H	1:81:A:ASN:HA	17	0.23
(1,1415)	1:83:A:ALA:H	1:81:A:ASN:HA	19	0.23
(1,1400)	1:69:A:LYS:H	1:68:A:ARG:HB3	9	0.23
(1,1390)	1:184:A:SER:H	1:59:A:GLN:HG2	1	0.23
(1,1366)	1:135:A:LYS:H	1:135:A:LYS:HB2	6	0.23
(1,1366)	1:135:A:LYS:H	1:135:A:LYS:HB2	7	0.23
(1,1311)	1:63:A:LYS:H	1:63:A:LYS:HD2	19	0.23
(1,1251)	1:84:A:GLY:H	1:83:A:ALA:HB3	11	0.23
(1,1251)	1:84:A:GLY:H	1:83:A:ALA:HB3	17	0.23
(1,1241)	1:96:A:ASP:H	1:95:A:THR:HG23	5	0.23
(1,1199)	1:67:A:LYS:H	1:67:A:LYS:HB3	17	0.23
(1,1074)	1:162:A:SER:H	1:161:A:ASN:HB3	7	0.23
(1,1057)	1:172:A:ASN:H	1:172:A:ASN:HB3	17	0.23
(1,1057)	1:172:A:ASN:H	1:172:A:ASN:HB3	19	0.23
(1,1011)	1:47:A:THR:H	1:46:A:LYS:HD2	2	0.23
(1,1011)	1:47:A:THR:H	1:46:A:LYS:HD2	6	0.23
(1,1011)	1:47:A:THR:H	1:46:A:LYS:HD2	10	0.23
(1,981)	1:83:A:ALA:H	1:81:A:ASN:HB3	1	0.23
(1,981)	1:83:A:ALA:H	1:81:A:ASN:HB3	18	0.23
(1,950)	1:89:A:VAL:H	1:88:A:GLU:HG3	4	0.23
(1,950)	1:89:A:VAL:H	1:88:A:GLU:HG3	7	0.23
(1,950)	1:89:A:VAL:H	1:88:A:GLU:HG3	13	0.23
(1,943)	1:178:A:GLU:H	1:178:A:GLU:HG2	10	0.23
(1,940)	1:178:A:GLU:H	1:178:A:GLU:HA	5	0.23
(1,931)	1:121:A:SER:H	1:120:A:ILE:HG21	17	0.23
(1,925)	1:177:A:ASP:H	1:176:A:ARG:HG2	6	0.23
(1,914)	1:50:A:LYS:H	1:50:A:LYS:HG3	11	0.23
(1,914)	1:50:A:LYS:H	1:50:A:LYS:HG3	15	0.23
(1,914)	1:50:A:LYS:H	1:50:A:LYS:HG3	16	0.23
(1,897)	1:176:A:ARG:H	1:176:A:ARG:HG3	5	0.23
(1,827)	1:86:A:LEU:H	1:86:A:LEU:HD22	17	0.23
(1,825)	1:86:A:LEU:H	1:86:A:LEU:HB3	5	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,807)	1:163:A:TRP:H	1:163:A:TRP:HB3	2	0.23
(1,807)	1:163:A:TRP:H	1:163:A:TRP:HB3	10	0.23
(1,807)	1:163:A:TRP:H	1:163:A:TRP:HB3	11	0.23
(1,807)	1:163:A:TRP:H	1:163:A:TRP:HB3	17	0.23
(1,792)	1:87:A:LYS:H	1:78:A:PHE:HD1	20	0.23
(1,786)	1:87:A:LYS:H	1:87:A:LYS:HB2	4	0.23
(1,786)	1:87:A:LYS:H	1:87:A:LYS:HB2	12	0.23
(1,786)	1:87:A:LYS:H	1:87:A:LYS:HB2	13	0.23
(1,786)	1:87:A:LYS:H	1:87:A:LYS:HB2	14	0.23
(1,786)	1:87:A:LYS:H	1:87:A:LYS:HB2	15	0.23
(1,784)	1:92:A:VAL:H	1:98:A:LEU:HD22	12	0.23
(1,782)	1:92:A:VAL:H	1:99:A:VAL:HB	2	0.23
(1,782)	1:92:A:VAL:H	1:99:A:VAL:HB	5	0.23
(1,767)	1:14:A:ALA:H	1:14:A:ALA:HA	4	0.23
(1,767)	1:14:A:ALA:H	1:14:A:ALA:HA	12	0.23
(1,767)	1:14:A:ALA:H	1:14:A:ALA:HA	19	0.23
(1,716)	1:141:A:SER:H	1:126:A:ILE:HD12	1	0.23
(1,699)	1:137:A:LEU:H	1:137:A:LEU:HD13	3	0.23
(1,699)	1:137:A:LEU:H	1:137:A:LEU:HD12	15	0.23
(1,658)	1:122:A:LEU:H	1:97:A:ILE:HB	10	0.23
(1,658)	1:122:A:LEU:H	1:97:A:ILE:HB	11	0.23
(1,658)	1:122:A:LEU:H	1:97:A:ILE:HB	20	0.23
(1,601)	1:55:A:MET:H	1:55:A:MET:HB2	13	0.23
(1,586)	1:185:A:GLU:H	1:184:A:SER:HB2	1	0.23
(1,582)	1:167:A:ILE:H	1:127:A:VAL:HG11	4	0.23
(1,582)	1:167:A:ILE:H	1:127:A:VAL:HG11	18	0.23
(1,548)	1:61:A:PHE:H	1:60:A:MET:HB2	2	0.23
(1,548)	1:61:A:PHE:H	1:60:A:MET:HB2	20	0.23
(1,506)	1:35:A:GLU:HA	1:34:A:TYR:HD1	6	0.23
(1,506)	1:35:A:GLU:HA	1:34:A:TYR:HD1	15	0.23
(1,495)	1:10:A:GLN:HG3	1:10:A:GLN:HB3	9	0.23
(1,495)	1:10:A:GLN:HB3	1:10:A:GLN:HG2	19	0.23
(1,489)	1:70:A:LYS:HB3	1:36:A:LYS:HE2	2	0.23
(1,477)	1:50:A:LYS:HD2	1:50:A:LYS:HE3	1	0.23
(1,477)	1:50:A:LYS:HD2	1:50:A:LYS:HE3	4	0.23
(1,477)	1:50:A:LYS:HD2	1:50:A:LYS:HE3	8	0.23
(1,474)	1:135:A:LYS:HD3	1:135:A:LYS:HE3	1	0.23
(1,458)	1:15:A:GLN:HB3	1:4:A:LYS:HE3	1	0.23
(1,457)	1:92:A:VAL:H	1:98:A:LEU:HD21	4	0.23
(1,449)	1:31:A:VAL:HG12	1:30:A:LYS:HD3	9	0.23
(1,449)	1:31:A:VAL:HG12	1:30:A:LYS:HD3	16	0.23
(1,440)	1:36:A:LYS:HE2	1:36:A:LYS:HD3	3	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,440)	1:36:A:LYS:HE2	1:36:A:LYS:HD3	10	0.23
(1,437)	1:37:A:LYS:HB3	1:34:A:TYR:HE2	7	0.23
(1,418)	1:149:A:MET:HG3	1:149:A:MET:HE2	1	0.23
(1,418)	1:149:A:MET:HG3	1:149:A:MET:HE2	5	0.23
(1,418)	1:149:A:MET:HG3	1:149:A:MET:HE1	8	0.23
(1,418)	1:149:A:MET:HG3	1:149:A:MET:HE1	13	0.23
(1,418)	1:149:A:MET:HG3	1:149:A:MET:HE2	15	0.23
(1,376)	1:30:A:LYS:HB3	1:31:A:VAL:HA	4	0.23
(1,376)	1:30:A:LYS:HB3	1:31:A:VAL:HA	16	0.23
(1,374)	1:33:A:SER:HB2	1:30:A:LYS:HE2	16	0.23
(1,371)	1:19:A:LEU:HB2	1:18:A:SER:HB2	2	0.23
(1,367)	1:121:A:SER:HB2	1:185:A:GLU:HA	14	0.23
(1,367)	1:121:A:SER:HB2	1:185:A:GLU:HA	15	0.23
(1,365)	1:76:A:SER:HB2	1:78:A:PHE:HD1	9	0.23
(1,358)	1:155:A:SER:HA	1:135:A:LYS:HE2	19	0.23
(1,357)	1:34:A:TYR:HA	1:30:A:LYS:HE3	1	0.23
(1,357)	1:34:A:TYR:HA	1:30:A:LYS:HE2	15	0.23
(1,345)	1:159:A:GLU:HG2	1:162:A:SER:HB2	7	0.23
(1,339)	1:157:A:LYS:HA	1:134:A:GLU:HB2	11	0.23
(1,319)	1:22:A:ASP:HA	1:23:A:VAL:HG11	19	0.23
(1,302)	1:25:A:GLY:HA2	1:28:A:ASP:HB3	12	0.23
(1,299)	1:85:A:ARG:HD3	1:84:A:GLY:HA2	15	0.23
(1,293)	1:67:A:LYS:HE3	1:64:A:GLU:HA	7	0.23
(1,291)	1:54:A:ARG:HD2	1:54:A:ARG:HB2	6	0.23
(1,289)	1:85:A:ARG:HG3	1:85:A:ARG:HD3	2	0.23
(1,278)	1:30:A:LYS:HG2	1:30:A:LYS:HE2	9	0.23
(1,278)	1:30:A:LYS:HG2	1:30:A:LYS:HE2	11	0.23
(1,276)	1:22:A:ASP:HB2	1:26:A:ALA:HB2	6	0.23
(1,273)	1:50:A:LYS:HG3	1:50:A:LYS:HE3	15	0.23
(1,267)	1:22:A:ASP:HB3	1:22:A:ASP:HA	4	0.23
(1,267)	1:177:A:ASP:HB3	1:177:A:ASP:HA	15	0.23
(1,267)	1:177:A:ASP:HB3	1:177:A:ASP:HA	16	0.23
(1,267)	1:177:A:ASP:HB3	1:177:A:ASP:HA	19	0.23
(1,257)	1:103:A:GLU:HG2	1:106:A:GLN:HA	18	0.23
(1,253)	1:115:A:GLN:HG2	1:113:A:LEU:HB2	10	0.23
(1,246)	1:87:A:LYS:HB2	1:79:A:LEU:HD21	3	0.23
(1,246)	1:87:A:LYS:HB2	1:79:A:LEU:HD22	14	0.23
(1,243)	1:4:A:LYS:HB2	1:4:A:LYS:HE2	16	0.23
(1,214)	1:15:A:GLN:HB2	1:15:A:GLN:HG3	12	0.23
(1,214)	1:15:A:GLN:HB2	1:15:A:GLN:HG3	17	0.23
(1,198)	1:56:A:LYS:HD3	1:121:A:SER:HB2	1	0.23
(1,190)	1:126:A:ILE:HD13	1:128:A:ARG:HG3	9	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,190)	1:126:A:ILE:HD11	1:128:A:ARG:HG3	14	0.23
(1,190)	1:126:A:ILE:HD13	1:128:A:ARG:HG3	16	0.23
(1,171)	1:107:A:LYS:HG3	1:47:A:THR:HA	19	0.23
(1,160)	1:71:A:LEU:HD11	1:74:A:ASP:HA	2	0.23
(1,154)	1:71:A:LEU:HD11	1:74:A:ASP:HB2	9	0.23
(1,103)	1:140:A:ILE:HD13	1:149:A:MET:HE3	9	0.23
(1,92)	1:17:A:LEU:H	1:18:A:SER:HB2	2	0.23
(1,92)	1:17:A:LEU:H	1:16:A:SER:HB3	18	0.23
(1,79)	1:116:A:LYS:H	1:116:A:LYS:HD3	4	0.23
(1,79)	1:116:A:LYS:H	1:116:A:LYS:HD3	13	0.23
(1,79)	1:116:A:LYS:H	1:116:A:LYS:HD3	16	0.23
(1,78)	1:107:A:LYS:H	1:103:A:GLU:HG2	18	0.23
(1,70)	1:106:A:GLN:HE22	1:106:A:GLN:HG2	10	0.23
(1,70)	1:106:A:GLN:HE22	1:106:A:GLN:HG3	19	0.23
(1,56)	1:106:A:GLN:H	1:106:A:GLN:HG3	20	0.23
(1,46)	1:175:A:ASN:H	1:174:A:LEU:HG	6	0.23
(1,46)	1:175:A:ASN:H	1:174:A:LEU:HG	13	0.23
(1,46)	1:175:A:ASN:H	1:174:A:LEU:HG	14	0.23
(1,44)	1:117:A:SER:H	1:116:A:LYS:HD3	20	0.23
(1,35)	1:119:A:VAL:H	1:120:A:ILE:HG13	10	0.23
(1,35)	1:119:A:VAL:H	1:120:A:ILE:HG13	12	0.23
(1,32)	1:139:A:LEU:H	1:138:A:PHE:HD1	2	0.23
(1,22)	1:130:A:VAL:H	1:129:A:GLU:HB3	14	0.23
(2,24)	1:167:A:ILE:H	1:163:A:TRP:O	4	0.22
(2,20)	1:154:A:ALA:H	1:135:A:LYS:O	13	0.22
(2,11)	1:97:A:ILE:H	1:94:A:LEU:O	2	0.22
(2,11)	1:97:A:ILE:H	1:94:A:LEU:O	6	0.22
(2,11)	1:97:A:ILE:H	1:94:A:LEU:O	10	0.22
(1,3518)	1:44:A:TYR:HE2	1:67:A:LYS:HD2	3	0.22
(1,3503)	1:78:A:PHE:HE1	1:78:A:PHE:H	20	0.22
(1,3451)	1:66:A:LEU:HB3	1:44:A:TYR:HD1	7	0.22
(1,3450)	1:61:A:PHE:HD2	1:55:A:MET:HG2	15	0.22
(1,3422)	1:176:A:ARG:HG3	1:176:A:ARG:HB2	4	0.22
(1,3407)	1:55:A:MET:HE2	1:119:A:VAL:HA	3	0.22
(1,3396)	1:92:A:VAL:HA	1:73:A:ARG:HG3	15	0.22
(1,3376)	1:53:A:MET:HG2	1:119:A:VAL:HB	18	0.22
(1,3371)	1:67:A:LYS:HD2	1:67:A:LYS:HB3	17	0.22
(1,3370)	1:174:A:LEU:HD21	1:171:A:ILE:HA	14	0.22
(1,3363)	1:52:A:ILE:HG13	1:60:A:MET:HG2	4	0.22
(1,3301)	1:154:A:ALA:HB2	1:163:A:TRP:HD1	7	0.22
(1,3301)	1:154:A:ALA:HB1	1:163:A:TRP:HD1	8	0.22
(1,3301)	1:154:A:ALA:HB2	1:163:A:TRP:HD1	10	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3294)	1:65:A:ASP:HA	1:61:A:PHE:HE2	5	0.22
(1,3272)	1:98:A:LEU:H	1:97:A:ILE:HG21	3	0.22
(1,3244)	1:94:A:LEU:HD13	1:92:A:VAL:H	18	0.22
(1,3238)	1:91:A:ALA:HA	1:98:A:LEU:HD21	9	0.22
(1,3236)	1:98:A:LEU:HD22	1:139:A:LEU:HB2	3	0.22
(1,3222)	1:77:A:VAL:HG23	1:78:A:PHE:H	9	0.22
(1,3213)	1:174:A:LEU:HD21	1:174:A:LEU:HB2	6	0.22
(1,3213)	1:174:A:LEU:HD21	1:174:A:LEU:HB2	15	0.22
(1,3207)	1:166:A:ILE:HG22	1:167:A:ILE:H	14	0.22
(1,3202)	1:152:A:VAL:HG21	1:137:A:LEU:HG	20	0.22
(1,3190)	1:36:A:LYS:HD2	1:33:A:SER:HA	16	0.22
(1,3177)	1:158:A:GLU:HG2	1:158:A:GLU:HB3	10	0.22
(1,3174)	1:101:A:LEU:HD22	1:108:A:TYR:HD2	15	0.22
(1,3173)	1:101:A:LEU:HD21	1:110:A:PHE:HD1	18	0.22
(1,3159)	1:149:A:MET:HB3	1:140:A:ILE:HD12	3	0.22
(1,3157)	1:22:A:ASP:HB2	1:22:A:ASP:HA	20	0.22
(1,3113)	1:80:A:LYS:HE2	1:80:A:LYS:HB2	20	0.22
(1,3053)	1:55:A:MET:HE3	1:119:A:VAL:H	10	0.22
(1,3046)	1:54:A:ARG:HA	1:59:A:GLN:HG2	12	0.22
(1,3046)	1:54:A:ARG:HA	1:59:A:GLN:HG2	13	0.22
(1,3034)	1:94:A:LEU:HD23	1:97:A:ILE:HG12	15	0.22
(1,2988)	1:43:A:ILE:HD11	1:40:A:LEU:HA	15	0.22
(1,2983)	1:36:A:LYS:HD3	1:36:A:LYS:HA	20	0.22
(1,2975)	1:102:A:GLN:HG2	1:109:A:ILE:HD11	9	0.22
(1,2956)	1:41:A:ASN:HB2	1:44:A:TYR:HD1	15	0.22
(1,2956)	1:41:A:ASN:HB2	1:44:A:TYR:HD1	18	0.22
(1,2954)	1:145:A:THR:HG21	1:144:A:MET:HB2	1	0.22
(1,2943)	1:53:A:MET:HE3	1:53:A:MET:HG3	3	0.22
(1,2943)	1:53:A:MET:HE2	1:53:A:MET:HG3	6	0.22
(1,2943)	1:53:A:MET:HE1	1:53:A:MET:HG3	14	0.22
(1,2943)	1:53:A:MET:HE2	1:53:A:MET:HG3	19	0.22
(1,2942)	1:110:A:PHE:HB2	1:53:A:MET:HE2	7	0.22
(1,2900)	1:142:A:MET:HB2	1:126:A:ILE:HG12	12	0.22
(1,2876)	1:173:A:THR:HG23	1:173:A:THR:HB	1	0.22
(1,2876)	1:173:A:THR:HG22	1:173:A:THR:HB	4	0.22
(1,2876)	1:173:A:THR:HG22	1:173:A:THR:HB	7	0.22
(1,2876)	1:173:A:THR:HG22	1:173:A:THR:HB	8	0.22
(1,2876)	1:173:A:THR:HG23	1:173:A:THR:HB	18	0.22
(1,2876)	1:173:A:THR:HG22	1:173:A:THR:HB	19	0.22
(1,2873)	1:170:A:THR:HB	1:167:A:ILE:HG23	10	0.22
(1,2819)	1:121:A:SER:HA	1:121:A:SER:HB2	1	0.22
(1,2819)	1:121:A:SER:HA	1:121:A:SER:HB2	16	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2789)	1:158:A:GLU:HG2	1:158:A:GLU:HA	7	0.22
(1,2789)	1:158:A:GLU:HG2	1:158:A:GLU:HA	12	0.22
(1,2774)	1:77:A:VAL:HA	1:89:A:VAL:HG22	4	0.22
(1,2768)	1:159:A:GLU:HG2	1:159:A:GLU:HA	19	0.22
(1,2727)	1:139:A:LEU:HD22	1:127:A:VAL:HA	1	0.22
(1,2727)	1:139:A:LEU:HD22	1:127:A:VAL:HA	17	0.22
(1,2672)	1:106:A:GLN:HG3	1:105:A:ASP:HA	7	0.22
(1,2657)	1:108:A:TYR:HA	1:109:A:ILE:HD12	9	0.22
(1,2635)	1:6:A:ASN:HA	1:9:A:GLU:HB3	7	0.22
(1,2635)	1:6:A:ASN:HA	1:9:A:GLU:HB3	17	0.22
(1,2631)	1:80:A:LYS:HA	1:86:A:LEU:HD13	8	0.22
(1,2631)	1:80:A:LYS:HA	1:86:A:LEU:HD12	17	0.22
(1,2607)	1:153:A:HIS:HA	1:136:A:GLY:HA2	17	0.22
(1,2605)	1:133:A:GLU:HA	1:130:A:VAL:HG12	13	0.22
(1,2598)	1:32:A:ALA:HA	1:35:A:GLU:HA	17	0.22
(1,2596)	1:32:A:ALA:HA	1:35:A:GLU:HB3	2	0.22
(1,2596)	1:32:A:ALA:HA	1:35:A:GLU:HB3	16	0.22
(1,2520)	1:73:A:ARG:HD2	1:163:A:TRP:HZ2	15	0.22
(1,2508)	1:73:A:ARG:HD2	1:166:A:ILE:HG12	17	0.22
(1,2464)	1:46:A:LYS:HE3	1:43:A:ILE:HG12	3	0.22
(1,2464)	1:46:A:LYS:HE3	1:43:A:ILE:HG12	9	0.22
(1,2464)	1:46:A:LYS:HE3	1:43:A:ILE:HG12	19	0.22
(1,2445)	1:166:A:ILE:HD12	1:169:A:ASP:HB2	19	0.22
(1,2374)	1:42:A:GLU:HG3	1:42:A:GLU:HA	7	0.22
(1,2374)	1:42:A:GLU:HG3	1:42:A:GLU:HA	13	0.22
(1,2359)	1:134:A:GLU:HG3	1:157:A:LYS:HB3	7	0.22
(1,2327)	1:4:A:LYS:HB2	1:8:A:VAL:HG11	13	0.22
(1,2253)	1:176:A:ARG:HB3	1:173:A:THR:HG22	16	0.22
(1,2253)	1:176:A:ARG:HB3	1:173:A:THR:HG22	18	0.22
(1,2241)	1:63:A:LYS:HD3	1:63:A:LYS:HA	4	0.22
(1,2241)	1:63:A:LYS:HD3	1:63:A:LYS:HA	11	0.22
(1,2241)	1:63:A:LYS:HD3	1:63:A:LYS:HA	14	0.22
(1,2189)	1:171:A:ILE:HG21	1:123:A:LYS:HD3	14	0.22
(1,2188)	1:98:A:LEU:HD21	1:93:A:LEU:HD22	7	0.22
(1,2119)	1:137:A:LEU:HD13	1:163:A:TRP:HB3	10	0.22
(1,2119)	1:137:A:LEU:HD12	1:163:A:TRP:HB3	11	0.22
(1,2072)	1:98:A:LEU:HD12	1:93:A:LEU:HD21	13	0.22
(1,1995)	1:174:A:LEU:HD12	1:12:A:ASP:HB2	7	0.22
(1,1994)	1:174:A:LEU:HD11	1:171:A:ILE:HB	1	0.22
(1,1994)	1:174:A:LEU:HD11	1:171:A:ILE:HB	6	0.22
(1,1993)	1:174:A:LEU:HD13	1:174:A:LEU:HB3	1	0.22
(1,1989)	1:174:A:LEU:HD12	1:123:A:LYS:HG3	18	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1968)	1:46:A:LYS:HG2	1:46:A:LYS:HE3	19	0.22
(1,1950)	1:94:A:LEU:HD21	1:71:A:LEU:HA	19	0.22
(1,1942)	1:37:A:LYS:HG3	1:37:A:LYS:HA	7	0.22
(1,1942)	1:37:A:LYS:HG3	1:37:A:LYS:HA	11	0.22
(1,1942)	1:37:A:LYS:HG3	1:37:A:LYS:HA	17	0.22
(1,1940)	1:50:A:LYS:HG3	1:50:A:LYS:HA	9	0.22
(1,1940)	1:50:A:LYS:HG3	1:50:A:LYS:HA	15	0.22
(1,1923)	1:67:A:LYS:HG2	1:44:A:TYR:HD2	4	0.22
(1,1906)	1:86:A:LEU:HD11	1:78:A:PHE:HE2	9	0.22
(1,1897)	1:86:A:LEU:HD23	1:86:A:LEU:HD11	16	0.22
(1,1888)	1:174:A:LEU:HD23	1:123:A:LYS:HG2	17	0.22
(1,1870)	1:87:A:LYS:HG2	1:87:A:LYS:HE2	19	0.22
(1,1867)	1:19:A:LEU:HD22	1:19:A:LEU:HA	4	0.22
(1,1863)	1:95:A:THR:HG21	1:70:A:LYS:HG2	7	0.22
(1,1846)	1:170:A:THR:HG23	1:72:A:VAL:HG12	2	0.22
(1,1846)	1:170:A:THR:HG22	1:72:A:VAL:HG11	18	0.22
(1,1811)	1:38:A:VAL:HG11	1:38:A:VAL:HG23	2	0.22
(1,1811)	1:38:A:VAL:HG13	1:38:A:VAL:HG23	4	0.22
(1,1811)	1:38:A:VAL:HG13	1:38:A:VAL:HG23	9	0.22
(1,1804)	1:127:A:VAL:HG12	1:127:A:VAL:HA	13	0.22
(1,1779)	1:79:A:LEU:H	1:89:A:VAL:HG12	2	0.22
(1,1779)	1:79:A:LEU:H	1:89:A:VAL:HG11	4	0.22
(1,1779)	1:79:A:LEU:H	1:89:A:VAL:HG13	8	0.22
(1,1779)	1:79:A:LEU:H	1:89:A:VAL:HG13	19	0.22
(1,1752)	1:89:A:VAL:HG13	1:79:A:LEU:HD12	3	0.22
(1,1748)	1:72:A:VAL:HG21	1:95:A:THR:HA	14	0.22
(1,1683)	1:83:A:ALA:HB2	1:83:A:ALA:HA	11	0.22
(1,1683)	1:83:A:ALA:HB3	1:83:A:ALA:HA	16	0.22
(1,1666)	1:97:A:ILE:HG21	1:119:A:VAL:HG23	14	0.22
(1,1652)	1:131:A:ALA:HB2	1:131:A:ALA:HA	3	0.22
(1,1652)	1:131:A:ALA:HB2	1:131:A:ALA:HA	4	0.22
(1,1652)	1:131:A:ALA:HB3	1:131:A:ALA:HA	9	0.22
(1,1652)	1:131:A:ALA:HB2	1:131:A:ALA:HA	12	0.22
(1,1652)	1:131:A:ALA:HB2	1:131:A:ALA:HA	14	0.22
(1,1652)	1:131:A:ALA:HB1	1:131:A:ALA:HA	17	0.22
(1,1652)	1:131:A:ALA:HB2	1:131:A:ALA:HA	18	0.22
(1,1652)	1:131:A:ALA:HB2	1:131:A:ALA:HA	19	0.22
(1,1652)	1:131:A:ALA:HB3	1:131:A:ALA:HA	20	0.22
(1,1649)	1:167:A:ILE:HG21	1:127:A:VAL:HB	4	0.22
(1,1649)	1:167:A:ILE:HG21	1:127:A:VAL:HB	12	0.22
(1,1636)	1:126:A:ILE:HD12	1:140:A:ILE:HG12	1	0.22
(1,1624)	1:43:A:ILE:HG22	1:43:A:ILE:HG13	19	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1620)	1:182:A:ILE:HG23	1:181:A:GLY:HA2	7	0.22
(1,1620)	1:182:A:ILE:HG22	1:181:A:GLY:HA2	19	0.22
(1,1614)	1:171:A:ILE:HG22	1:174:A:LEU:HD11	7	0.22
(1,1608)	1:60:A:MET:HE3	1:52:A:ILE:HG23	7	0.22
(1,1608)	1:60:A:MET:HE3	1:52:A:ILE:HG21	13	0.22
(1,1604)	1:149:A:MET:HE2	1:138:A:PHE:HA	15	0.22
(1,1594)	1:55:A:MET:HE2	1:120:A:ILE:HA	2	0.22
(1,1594)	1:55:A:MET:HE1	1:120:A:ILE:HA	12	0.22
(1,1534)	1:140:A:ILE:HD13	1:140:A:ILE:HG13	1	0.22
(1,1534)	1:140:A:ILE:HD13	1:140:A:ILE:HG13	11	0.22
(1,1534)	1:140:A:ILE:HD13	1:140:A:ILE:HG13	16	0.22
(1,1534)	1:140:A:ILE:HD12	1:140:A:ILE:HG13	19	0.22
(1,1525)	1:166:A:ILE:HD12	1:169:A:ASP:HB3	3	0.22
(1,1525)	1:166:A:ILE:HD11	1:169:A:ASP:HB3	14	0.22
(1,1522)	1:166:A:ILE:HD12	1:73:A:ARG:HB2	12	0.22
(1,1503)	1:23:A:VAL:H	1:27:A:VAL:HB	3	0.22
(1,1476)	1:142:A:MET:H	1:142:A:MET:HG3	3	0.22
(1,1476)	1:142:A:MET:H	1:142:A:MET:HG3	9	0.22
(1,1476)	1:142:A:MET:H	1:142:A:MET:HG3	13	0.22
(1,1460)	1:85:A:ARG:H	1:83:A:ALA:HB1	8	0.22
(1,1460)	1:85:A:ARG:H	1:83:A:ALA:HB3	11	0.22
(1,1457)	1:107:A:LYS:H	1:104:A:LYS:HB2	8	0.22
(1,1457)	1:107:A:LYS:H	1:104:A:LYS:HB2	16	0.22
(1,1415)	1:83:A:ALA:H	1:81:A:ASN:HA	4	0.22
(1,1415)	1:83:A:ALA:H	1:81:A:ASN:HA	10	0.22
(1,1415)	1:83:A:ALA:H	1:81:A:ASN:HA	12	0.22
(1,1390)	1:184:A:SER:H	1:59:A:GLN:HG2	14	0.22
(1,1354)	1:15:A:GLN:H	1:15:A:GLN:HB2	4	0.22
(1,1307)	1:63:A:LYS:H	1:47:A:THR:HG22	10	0.22
(1,1284)	1:44:A:TYR:H	1:44:A:TYR:HD2	13	0.22
(1,1268)	1:153:A:HIS:H	1:152:A:VAL:HG11	4	0.22
(1,1241)	1:96:A:ASP:H	1:95:A:THR:HG23	11	0.22
(1,1241)	1:96:A:ASP:H	1:95:A:THR:HG22	20	0.22
(1,1132)	1:66:A:LEU:H	1:66:A:LEU:HB3	2	0.22
(1,1132)	1:66:A:LEU:H	1:66:A:LEU:HB3	6	0.22
(1,1132)	1:66:A:LEU:H	1:66:A:LEU:HB3	9	0.22
(1,1132)	1:66:A:LEU:H	1:66:A:LEU:HB3	14	0.22
(1,1132)	1:66:A:LEU:H	1:66:A:LEU:HB3	16	0.22
(1,1088)	1:166:A:ILE:H	1:166:A:ILE:HD11	11	0.22
(1,1060)	1:172:A:ASN:H	1:171:A:ILE:HG22	9	0.22
(1,1060)	1:172:A:ASN:H	1:171:A:ILE:HG23	17	0.22
(1,1057)	1:172:A:ASN:H	1:172:A:ASN:HB3	1	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1057)	1:172:A:ASN:H	1:172:A:ASN:HB3	20	0.22
(1,1028)	1:138:A:PHE:H	1:130:A:VAL:HB	19	0.22
(1,993)	1:27:A:VAL:H	1:27:A:VAL:HG12	1	0.22
(1,993)	1:27:A:VAL:H	1:27:A:VAL:HG13	5	0.22
(1,914)	1:50:A:LYS:H	1:50:A:LYS:HG3	3	0.22
(1,914)	1:50:A:LYS:H	1:50:A:LYS:HG3	17	0.22
(1,912)	1:50:A:LYS:H	1:50:A:LYS:HB3	4	0.22
(1,897)	1:176:A:ARG:H	1:176:A:ARG:HG3	13	0.22
(1,893)	1:176:A:ARG:H	1:175:A:ASN:HB2	12	0.22
(1,852)	1:159:A:GLU:H	1:154:A:ALA:HB3	12	0.22
(1,841)	1:110:A:PHE:H	1:109:A:ILE:HG22	3	0.22
(1,835)	1:12:A:ASP:H	1:174:A:LEU:HA	2	0.22
(1,835)	1:12:A:ASP:H	1:174:A:LEU:HA	3	0.22
(1,835)	1:12:A:ASP:H	1:174:A:LEU:HA	9	0.22
(1,828)	1:86:A:LEU:H	1:86:A:LEU:HD12	9	0.22
(1,828)	1:86:A:LEU:H	1:86:A:LEU:HD13	15	0.22
(1,820)	1:86:A:LEU:H	1:85:A:ARG:H	12	0.22
(1,792)	1:87:A:LYS:H	1:78:A:PHE:HD1	7	0.22
(1,782)	1:92:A:VAL:H	1:99:A:VAL:HB	14	0.22
(1,782)	1:92:A:VAL:H	1:99:A:VAL:HB	18	0.22
(1,777)	1:92:A:VAL:H	1:100:A:PHE:HD1	8	0.22
(1,699)	1:137:A:LEU:H	1:137:A:LEU:HD12	5	0.22
(1,587)	1:185:A:GLU:H	1:185:A:GLU:HB2	19	0.22
(1,564)	1:104:A:LYS:H	1:103:A:GLU:HG3	1	0.22
(1,515)	1:37:A:LYS:HD2	1:34:A:TYR:HE2	7	0.22
(1,506)	1:35:A:GLU:HA	1:34:A:TYR:HD1	4	0.22
(1,506)	1:35:A:GLU:HA	1:34:A:TYR:HD1	11	0.22
(1,495)	1:10:A:GLN:HB3	1:10:A:GLN:HG2	8	0.22
(1,487)	1:40:A:LEU:HG	1:39:A:ARG:HG2	1	0.22
(1,477)	1:50:A:LYS:HD2	1:50:A:LYS:HE3	3	0.22
(1,444)	1:166:A:ILE:HG23	1:93:A:LEU:HB3	16	0.22
(1,440)	1:36:A:LYS:HE2	1:36:A:LYS:HD3	9	0.22
(1,437)	1:37:A:LYS:HB3	1:34:A:TYR:HE1	9	0.22
(1,431)	1:67:A:LYS:HE3	1:44:A:TYR:HE1	2	0.22
(1,418)	1:149:A:MET:HG3	1:149:A:MET:HE3	14	0.22
(1,418)	1:149:A:MET:HG3	1:149:A:MET:HE3	17	0.22
(1,418)	1:149:A:MET:HG3	1:149:A:MET:HE1	20	0.22
(1,402)	1:176:A:ARG:HB2	1:176:A:ARG:HA	6	0.22
(1,393)	1:32:A:ALA:HA	1:31:A:VAL:HG22	7	0.22
(1,376)	1:30:A:LYS:HB3	1:31:A:VAL:HA	2	0.22
(1,376)	1:30:A:LYS:HB3	1:31:A:VAL:HA	7	0.22
(1,376)	1:30:A:LYS:HB3	1:31:A:VAL:HA	12	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,374)	1:33:A:SER:HB2	1:30:A:LYS:HE2	9	0.22
(1,374)	1:33:A:SER:HB2	1:30:A:LYS:HE2	11	0.22
(1,374)	1:33:A:SER:HB2	1:30:A:LYS:HE2	17	0.22
(1,367)	1:121:A:SER:HB2	1:185:A:GLU:HA	2	0.22
(1,365)	1:76:A:SER:HB2	1:78:A:PHE:HD1	14	0.22
(1,358)	1:155:A:SER:HA	1:135:A:LYS:HE3	10	0.22
(1,357)	1:34:A:TYR:HA	1:30:A:LYS:HE2	17	0.22
(1,353)	1:67:A:LYS:HE3	1:67:A:LYS:HA	15	0.22
(1,345)	1:159:A:GLU:HG2	1:162:A:SER:HB2	3	0.22
(1,345)	1:159:A:GLU:HG2	1:162:A:SER:HB2	8	0.22
(1,339)	1:157:A:LYS:HA	1:134:A:GLU:HB2	4	0.22
(1,339)	1:157:A:LYS:HA	1:134:A:GLU:HB2	19	0.22
(1,295)	1:50:A:LYS:HE2	1:50:A:LYS:HA	1	0.22
(1,295)	1:50:A:LYS:HE2	1:50:A:LYS:HA	3	0.22
(1,295)	1:50:A:LYS:HE3	1:50:A:LYS:HA	4	0.22
(1,295)	1:50:A:LYS:HE2	1:50:A:LYS:HA	7	0.22
(1,295)	1:50:A:LYS:HE2	1:50:A:LYS:HA	13	0.22
(1,291)	1:54:A:ARG:HD2	1:54:A:ARG:HB2	14	0.22
(1,273)	1:50:A:LYS:HG3	1:50:A:LYS:HE3	19	0.22
(1,271)	1:87:A:LYS:HE2	1:111:A:ALA:HB3	15	0.22
(1,271)	1:87:A:LYS:HE2	1:111:A:ALA:HB3	17	0.22
(1,269)	1:5:A:ASP:HB2	1:8:A:VAL:HG21	19	0.22
(1,267)	1:177:A:ASP:HB3	1:177:A:ASP:HA	18	0.22
(1,222)	1:159:A:GLU:HB3	1:162:A:SER:HB2	1	0.22
(1,222)	1:159:A:GLU:HB3	1:162:A:SER:HB2	7	0.22
(1,222)	1:159:A:GLU:HB3	1:162:A:SER:HB2	19	0.22
(1,214)	1:15:A:GLN:HB2	1:15:A:GLN:HG3	7	0.22
(1,214)	1:15:A:GLN:HB2	1:15:A:GLN:HG3	8	0.22
(1,208)	1:93:A:LEU:HD21	1:73:A:ARG:HB2	20	0.22
(1,190)	1:126:A:ILE:HD12	1:128:A:ARG:HG3	3	0.22
(1,190)	1:126:A:ILE:HD13	1:128:A:ARG:HG3	4	0.22
(1,190)	1:126:A:ILE:HD12	1:128:A:ARG:HG3	20	0.22
(1,176)	1:124:A:LYS:HG2	1:124:A:LYS:HE2	11	0.22
(1,168)	1:107:A:LYS:HG2	1:106:A:GLN:HG3	20	0.22
(1,154)	1:71:A:LEU:HD13	1:74:A:ASP:HB2	14	0.22
(1,142)	1:56:A:LYS:HG2	1:56:A:LYS:HD2	10	0.22
(1,142)	1:56:A:LYS:HG2	1:56:A:LYS:HD2	12	0.22
(1,142)	1:56:A:LYS:HG2	1:56:A:LYS:HD2	13	0.22
(1,120)	1:122:A:LEU:HD23	1:122:A:LEU:HB3	20	0.22
(1,79)	1:116:A:LYS:H	1:116:A:LYS:HD2	7	0.22
(1,79)	1:116:A:LYS:H	1:116:A:LYS:HD2	11	0.22
(1,70)	1:106:A:GLN:HE22	1:106:A:GLN:HG2	5	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,70)	1:106:A:GLN:HE22	1:106:A:GLN:HG3	14	0.22
(1,50)	1:64:A:GLU:H	1:64:A:GLU:HG2	10	0.22
(1,46)	1:175:A:ASN:H	1:174:A:LEU:HG	5	0.22
(1,35)	1:119:A:VAL:H	1:120:A:ILE:HG13	1	0.22
(1,35)	1:119:A:VAL:H	1:120:A:ILE:HG13	4	0.22
(1,35)	1:119:A:VAL:H	1:120:A:ILE:HG13	8	0.22
(1,35)	1:119:A:VAL:H	1:120:A:ILE:HG13	19	0.22
(1,33)	1:107:A:LYS:H	1:106:A:GLN:HG3	20	0.22
(1,24)	1:7:A:GLU:H	1:9:A:GLU:HG2	19	0.22
(1,23)	1:22:A:ASP:H	1:21:A:LYS:HG3	12	0.22
(2,24)	1:167:A:ILE:H	1:163:A:TRP:O	1	0.21
(2,22)	1:162:A:SER:H	1:159:A:GLU:O	11	0.21
(2,13)	1:101:A:LEU:H	1:90:A:GLN:O	14	0.21
(2,11)	1:97:A:ILE:H	1:94:A:LEU:O	8	0.21
(1,3529)	1:78:A:PHE:HE1	1:78:A:PHE:HB2	4	0.21
(1,3529)	1:78:A:PHE:HE1	1:78:A:PHE:HB2	18	0.21
(1,3517)	1:63:A:LYS:HG2	1:44:A:TYR:HE2	4	0.21
(1,3512)	1:101:A:LEU:HD11	1:108:A:TYR:HE2	1	0.21
(1,3488)	1:149:A:MET:HE2	1:138:A:PHE:HE1	19	0.21
(1,3486)	1:138:A:PHE:HE2	1:128:A:ARG:HB3	5	0.21
(1,3456)	1:133:A:GLU:HG3	1:153:A:HIS:HE1	18	0.21
(1,3450)	1:61:A:PHE:HD2	1:55:A:MET:HG2	4	0.21
(1,3432)	1:100:A:PHE:HZ	1:100:A:PHE:HD2	2	0.21
(1,3432)	1:100:A:PHE:HZ	1:100:A:PHE:HD2	4	0.21
(1,3432)	1:100:A:PHE:HZ	1:100:A:PHE:HD2	6	0.21
(1,3432)	1:100:A:PHE:HZ	1:100:A:PHE:HD2	12	0.21
(1,3432)	1:100:A:PHE:HZ	1:100:A:PHE:HD2	18	0.21
(1,3423)	1:159:A:GLU:HB2	1:163:A:TRP:HD1	11	0.21
(1,3422)	1:176:A:ARG:HG3	1:176:A:ARG:HB2	7	0.21
(1,3407)	1:55:A:MET:HE3	1:119:A:VAL:HA	14	0.21
(1,3376)	1:53:A:MET:HG2	1:119:A:VAL:HB	1	0.21
(1,3372)	1:59:A:GLN:HG3	1:59:A:GLN:HB3	2	0.21
(1,3372)	1:59:A:GLN:HG3	1:59:A:GLN:HB3	4	0.21
(1,3372)	1:59:A:GLN:HG3	1:59:A:GLN:HB3	7	0.21
(1,3372)	1:59:A:GLN:HG3	1:59:A:GLN:HB3	8	0.21
(1,3372)	1:59:A:GLN:HG3	1:59:A:GLN:HB3	9	0.21
(1,3372)	1:59:A:GLN:HG3	1:59:A:GLN:HB3	11	0.21
(1,3372)	1:59:A:GLN:HG3	1:59:A:GLN:HB3	12	0.21
(1,3372)	1:59:A:GLN:HG3	1:59:A:GLN:HB3	13	0.21
(1,3372)	1:59:A:GLN:HG3	1:59:A:GLN:HB3	14	0.21
(1,3372)	1:59:A:GLN:HG3	1:59:A:GLN:HB3	15	0.21
(1,3372)	1:59:A:GLN:HG3	1:59:A:GLN:HB3	16	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3372)	1:59:A:GLN:HG3	1:59:A:GLN:HB3	18	0.21
(1,3363)	1:52:A:ILE:HG13	1:60:A:MET:HG2	2	0.21
(1,3363)	1:52:A:ILE:HG13	1:60:A:MET:HG2	6	0.21
(1,3346)	1:69:A:LYS:HD2	1:97:A:ILE:HD13	10	0.21
(1,3300)	1:86:A:LEU:HD21	1:153:A:HIS:H	8	0.21
(1,3287)	1:35:A:GLU:HG3	1:34:A:TYR:HE2	2	0.21
(1,3272)	1:98:A:LEU:H	1:97:A:ILE:HG21	11	0.21
(1,3247)	1:2:A:MET:HG3	1:2:A:MET:HB3	17	0.21
(1,3244)	1:94:A:LEU:HD11	1:92:A:VAL:H	11	0.21
(1,3241)	1:113:A:LEU:HD11	1:113:A:LEU:H	1	0.21
(1,3238)	1:91:A:ALA:HA	1:98:A:LEU:HD21	4	0.21
(1,3228)	1:99:A:VAL:HG21	1:92:A:VAL:H	13	0.21
(1,3226)	1:89:A:VAL:HG11	1:102:A:GLN:H	8	0.21
(1,3226)	1:89:A:VAL:HG12	1:102:A:GLN:H	13	0.21
(1,3222)	1:77:A:VAL:HG21	1:78:A:PHE:H	8	0.21
(1,3213)	1:174:A:LEU:HD23	1:174:A:LEU:HB2	7	0.21
(1,3174)	1:101:A:LEU:HD21	1:108:A:TYR:HD2	13	0.21
(1,3173)	1:101:A:LEU:HD21	1:110:A:PHE:HD1	7	0.21
(1,3161)	1:144:A:MET:HE1	1:56:A:LYS:HE2	13	0.21
(1,3159)	1:149:A:MET:HB3	1:140:A:ILE:HD13	12	0.21
(1,3152)	1:97:A:ILE:HD12	1:65:A:ASP:HB3	11	0.21
(1,3144)	1:34:A:TYR:HB2	1:31:A:VAL:HG21	7	0.21
(1,3113)	1:80:A:LYS:HE2	1:80:A:LYS:HB2	10	0.21
(1,3105)	1:39:A:ARG:HD3	1:39:A:ARG:HA	2	0.21
(1,3055)	1:144:A:MET:HG3	1:145:A:THR:HG22	2	0.21
(1,3055)	1:144:A:MET:HG3	1:145:A:THR:HG21	5	0.21
(1,3046)	1:54:A:ARG:HA	1:59:A:GLN:HG2	17	0.21
(1,3006)	1:22:A:ASP:HA	1:15:A:GLN:HB2	18	0.21
(1,2994)	1:11:A:GLU:HG2	1:11:A:GLU:HA	4	0.21
(1,2988)	1:43:A:ILE:HD11	1:40:A:LEU:HA	5	0.21
(1,2955)	1:145:A:THR:HG23	1:146:A:ASP:HB3	1	0.21
(1,2950)	1:60:A:MET:HG2	1:60:A:MET:HE3	11	0.21
(1,2943)	1:53:A:MET:HE2	1:53:A:MET:HG3	10	0.21
(1,2943)	1:53:A:MET:HE1	1:53:A:MET:HG3	11	0.21
(1,2943)	1:53:A:MET:HE1	1:53:A:MET:HG3	15	0.21
(1,2943)	1:53:A:MET:HE2	1:53:A:MET:HG3	16	0.21
(1,2904)	1:140:A:ILE:HD12	1:128:A:ARG:HB3	12	0.21
(1,2900)	1:142:A:MET:HB2	1:126:A:ILE:HG12	3	0.21
(1,2900)	1:142:A:MET:HB2	1:126:A:ILE:HG12	5	0.21
(1,2900)	1:142:A:MET:HB2	1:126:A:ILE:HG12	7	0.21
(1,2900)	1:142:A:MET:HB2	1:126:A:ILE:HG12	10	0.21
(1,2900)	1:142:A:MET:HB2	1:126:A:ILE:HG12	11	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2896)	1:176:A:ARG:HB3	1:176:A:ARG:HA	7	0.21
(1,2889)	1:111:A:ALA:HB1	1:100:A:PHE:HA	3	0.21
(1,2876)	1:173:A:THR:HG22	1:173:A:THR:HB	3	0.21
(1,2876)	1:173:A:THR:HG23	1:173:A:THR:HB	12	0.21
(1,2873)	1:170:A:THR:HB	1:167:A:ILE:HG23	17	0.21
(1,2868)	1:167:A:ILE:HA	1:170:A:THR:HG21	18	0.21
(1,2843)	1:31:A:VAL:HA	1:34:A:TYR:HE1	16	0.21
(1,2843)	1:31:A:VAL:HA	1:34:A:TYR:HE2	19	0.21
(1,2818)	1:76:A:SER:HB3	1:78:A:PHE:HE1	13	0.21
(1,2789)	1:158:A:GLU:HG2	1:158:A:GLU:HA	4	0.21
(1,2789)	1:158:A:GLU:HG2	1:158:A:GLU:HA	5	0.21
(1,2789)	1:158:A:GLU:HG2	1:158:A:GLU:HA	19	0.21
(1,2783)	1:117:A:SER:HA	1:55:A:MET:HB3	3	0.21
(1,2768)	1:159:A:GLU:HG2	1:159:A:GLU:HA	6	0.21
(1,2768)	1:159:A:GLU:HG2	1:159:A:GLU:HA	14	0.21
(1,2751)	1:155:A:SER:HA	1:78:A:PHE:HE2	20	0.21
(1,2727)	1:139:A:LEU:HD21	1:127:A:VAL:HA	5	0.21
(1,2727)	1:139:A:LEU:HD23	1:127:A:VAL:HA	15	0.21
(1,2710)	1:178:A:GLU:HA	1:177:A:ASP:HB2	14	0.21
(1,2704)	1:122:A:LEU:HG	1:122:A:LEU:HA	8	0.21
(1,2704)	1:122:A:LEU:HG	1:122:A:LEU:HA	18	0.21
(1,2657)	1:108:A:TYR:HA	1:109:A:ILE:HD13	10	0.21
(1,2635)	1:6:A:ASN:HA	1:9:A:GLU:HB3	5	0.21
(1,2631)	1:80:A:LYS:HA	1:86:A:LEU:HD13	3	0.21
(1,2596)	1:32:A:ALA:HA	1:35:A:GLU:HB3	14	0.21
(1,2594)	1:14:A:ALA:HA	1:19:A:LEU:HB2	18	0.21
(1,2473)	1:80:A:LYS:HE2	1:86:A:LEU:HD23	19	0.21
(1,2472)	1:157:A:LYS:HG2	1:157:A:LYS:HE3	7	0.21
(1,2464)	1:46:A:LYS:HE3	1:43:A:ILE:HG12	12	0.21
(1,2451)	1:46:A:LYS:HD2	1:46:A:LYS:HE2	19	0.21
(1,2391)	1:151:A:GLU:HG3	1:80:A:LYS:HB3	4	0.21
(1,2391)	1:151:A:GLU:HG3	1:80:A:LYS:HB3	10	0.21
(1,2385)	1:159:A:GLU:HG3	1:154:A:ALA:HB1	9	0.21
(1,2379)	1:178:A:GLU:HG2	1:178:A:GLU:HB2	11	0.21
(1,2374)	1:42:A:GLU:HG3	1:42:A:GLU:HA	5	0.21
(1,2353)	1:133:A:GLU:HG3	1:130:A:VAL:HG13	19	0.21
(1,2350)	1:102:A:GLN:HG3	1:89:A:VAL:HG13	7	0.21
(1,2327)	1:4:A:LYS:HB2	1:8:A:VAL:HG12	7	0.21
(1,2304)	1:123:A:LYS:HB3	1:123:A:LYS:HE2	16	0.21
(1,2266)	1:149:A:MET:HB3	1:138:A:PHE:HA	12	0.21
(1,2241)	1:63:A:LYS:HD3	1:63:A:LYS:HA	6	0.21
(1,2224)	1:159:A:GLU:HB3	1:159:A:GLU:HG3	2	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2224)	1:159:A:GLU:HB3	1:159:A:GLU:HG3	3	0.21
(1,2224)	1:159:A:GLU:HB3	1:159:A:GLU:HG3	5	0.21
(1,2224)	1:159:A:GLU:HB3	1:159:A:GLU:HG3	6	0.21
(1,2224)	1:159:A:GLU:HB3	1:159:A:GLU:HG3	7	0.21
(1,2224)	1:159:A:GLU:HB3	1:159:A:GLU:HG3	8	0.21
(1,2224)	1:159:A:GLU:HB3	1:159:A:GLU:HG3	10	0.21
(1,2224)	1:159:A:GLU:HB3	1:159:A:GLU:HG3	14	0.21
(1,2224)	1:159:A:GLU:HB3	1:159:A:GLU:HG3	15	0.21
(1,2224)	1:159:A:GLU:HB3	1:159:A:GLU:HG3	17	0.21
(1,2224)	1:159:A:GLU:HB3	1:159:A:GLU:HG3	20	0.21
(1,2192)	1:15:A:GLN:HB2	1:18:A:SER:HA	12	0.21
(1,2099)	1:66:A:LEU:HG	1:97:A:ILE:HG13	10	0.21
(1,2064)	1:137:A:LEU:HD23	1:164:A:ILE:HG12	10	0.21
(1,1989)	1:174:A:LEU:HD11	1:123:A:LYS:HG3	12	0.21
(1,1975)	1:101:A:LEU:HD11	1:90:A:GLN:HG2	12	0.21
(1,1959)	1:66:A:LEU:HD13	1:66:A:LEU:HA	5	0.21
(1,1959)	1:66:A:LEU:HD12	1:66:A:LEU:HA	12	0.21
(1,1942)	1:37:A:LYS:HG3	1:37:A:LYS:HA	8	0.21
(1,1942)	1:37:A:LYS:HG3	1:37:A:LYS:HA	10	0.21
(1,1940)	1:50:A:LYS:HG3	1:50:A:LYS:HA	16	0.21
(1,1940)	1:50:A:LYS:HG3	1:50:A:LYS:HA	17	0.21
(1,1940)	1:50:A:LYS:HG3	1:50:A:LYS:HA	18	0.21
(1,1927)	1:19:A:LEU:HD11	1:11:A:GLU:HA	7	0.21
(1,1923)	1:67:A:LYS:HG2	1:44:A:TYR:HD2	5	0.21
(1,1906)	1:86:A:LEU:HD11	1:78:A:PHE:HE2	4	0.21
(1,1906)	1:86:A:LEU:HD11	1:78:A:PHE:HE2	7	0.21
(1,1860)	1:62:A:ALA:HB1	1:110:A:PHE:HE2	16	0.21
(1,1846)	1:170:A:THR:HG21	1:72:A:VAL:HG13	1	0.21
(1,1811)	1:38:A:VAL:HG11	1:38:A:VAL:HG23	6	0.21
(1,1811)	1:38:A:VAL:HG13	1:38:A:VAL:HG22	10	0.21
(1,1811)	1:38:A:VAL:HG13	1:38:A:VAL:HG23	13	0.21
(1,1787)	1:101:A:LEU:HD21	1:66:A:LEU:HD12	4	0.21
(1,1780)	1:150:A:VAL:HG11	1:150:A:VAL:HG22	8	0.21
(1,1779)	1:79:A:LEU:H	1:89:A:VAL:HG13	3	0.21
(1,1779)	1:79:A:LEU:H	1:89:A:VAL:HG11	9	0.21
(1,1748)	1:72:A:VAL:HG21	1:95:A:THR:HA	11	0.21
(1,1741)	1:119:A:VAL:HG12	1:110:A:PHE:HD1	4	0.21
(1,1741)	1:119:A:VAL:HG13	1:110:A:PHE:HD1	19	0.21
(1,1691)	1:111:A:ALA:HB3	1:102:A:GLN:HG2	9	0.21
(1,1687)	1:111:A:ALA:HB1	1:89:A:VAL:HG22	11	0.21
(1,1683)	1:83:A:ALA:HB3	1:83:A:ALA:HA	2	0.21
(1,1683)	1:83:A:ALA:HB3	1:83:A:ALA:HA	5	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1683)	1:83:A:ALA:HB2	1:83:A:ALA:HA	6	0.21
(1,1683)	1:83:A:ALA:HB1	1:83:A:ALA:HA	13	0.21
(1,1683)	1:83:A:ALA:HB1	1:83:A:ALA:HA	20	0.21
(1,1652)	1:131:A:ALA:HB1	1:131:A:ALA:HA	8	0.21
(1,1652)	1:131:A:ALA:HB2	1:131:A:ALA:HA	10	0.21
(1,1636)	1:126:A:ILE:HD13	1:140:A:ILE:HG12	7	0.21
(1,1620)	1:182:A:ILE:HG23	1:181:A:GLY:HA2	16	0.21
(1,1608)	1:60:A:MET:HE2	1:52:A:ILE:HG22	20	0.21
(1,1604)	1:149:A:MET:HE1	1:138:A:PHE:HA	20	0.21
(1,1594)	1:55:A:MET:HE1	1:120:A:ILE:HA	6	0.21
(1,1594)	1:55:A:MET:HE1	1:120:A:ILE:HA	18	0.21
(1,1593)	1:55:A:MET:HE2	1:121:A:SER:HB3	18	0.21
(1,1590)	1:55:A:MET:HE2	1:55:A:MET:HG3	18	0.21
(1,1583)	1:164:A:ILE:HG23	1:129:A:GLU:HG3	15	0.21
(1,1534)	1:140:A:ILE:HD12	1:140:A:ILE:HG13	14	0.21
(1,1527)	1:52:A:ILE:HD12	1:52:A:ILE:HG13	2	0.21
(1,1527)	1:52:A:ILE:HD11	1:52:A:ILE:HG13	4	0.21
(1,1527)	1:52:A:ILE:HD11	1:52:A:ILE:HG13	6	0.21
(1,1527)	1:52:A:ILE:HD11	1:52:A:ILE:HG13	8	0.21
(1,1527)	1:52:A:ILE:HD13	1:52:A:ILE:HG13	10	0.21
(1,1527)	1:52:A:ILE:HD12	1:52:A:ILE:HG13	17	0.21
(1,1525)	1:166:A:ILE:HD11	1:169:A:ASP:HB3	10	0.21
(1,1476)	1:142:A:MET:H	1:142:A:MET:HG3	19	0.21
(1,1465)	1:5:A:ASP:H	1:5:A:ASP:HA	6	0.21
(1,1463)	1:85:A:ARG:H	1:85:A:ARG:HG3	9	0.21
(1,1460)	1:85:A:ARG:H	1:83:A:ALA:HB3	9	0.21
(1,1460)	1:85:A:ARG:H	1:83:A:ALA:HB2	12	0.21
(1,1457)	1:107:A:LYS:H	1:104:A:LYS:HB2	18	0.21
(1,1415)	1:83:A:ALA:H	1:81:A:ASN:HA	3	0.21
(1,1410)	1:172:A:ASN:HD22	1:168:A:GLN:HG3	19	0.21
(1,1395)	1:17:A:LEU:H	1:16:A:SER:HA	9	0.21
(1,1390)	1:184:A:SER:H	1:59:A:GLN:HG2	6	0.21
(1,1390)	1:184:A:SER:H	1:59:A:GLN:HG2	9	0.21
(1,1311)	1:63:A:LYS:H	1:63:A:LYS:HD2	15	0.21
(1,1274)	1:163:A:TRP:HE1	1:77:A:VAL:HG11	1	0.21
(1,1274)	1:163:A:TRP:HE1	1:77:A:VAL:HG11	18	0.21
(1,1251)	1:84:A:GLY:H	1:83:A:ALA:HB2	12	0.21
(1,1229)	1:156:A:SER:H	1:154:A:ALA:HB3	7	0.21
(1,1132)	1:66:A:LEU:H	1:66:A:LEU:HB3	5	0.21
(1,1132)	1:66:A:LEU:H	1:66:A:LEU:HB3	8	0.21
(1,1132)	1:66:A:LEU:H	1:66:A:LEU:HB3	10	0.21
(1,1132)	1:66:A:LEU:H	1:66:A:LEU:HB3	13	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1132)	1:66:A:LEU:H	1:66:A:LEU:HB3	15	0.21
(1,1132)	1:66:A:LEU:H	1:66:A:LEU:HB3	17	0.21
(1,1132)	1:66:A:LEU:H	1:66:A:LEU:HB3	18	0.21
(1,1132)	1:66:A:LEU:H	1:66:A:LEU:HB3	19	0.21
(1,1088)	1:166:A:ILE:H	1:166:A:ILE:HD12	2	0.21
(1,1074)	1:162:A:SER:H	1:161:A:ASN:HB3	2	0.21
(1,1074)	1:162:A:SER:H	1:161:A:ASN:HB3	10	0.21
(1,1057)	1:172:A:ASN:H	1:172:A:ASN:HB3	2	0.21
(1,1057)	1:172:A:ASN:H	1:172:A:ASN:HB3	12	0.21
(1,1057)	1:172:A:ASN:H	1:172:A:ASN:HB3	13	0.21
(1,1039)	1:170:A:THR:H	1:171:A:ILE:HD11	13	0.21
(1,1011)	1:47:A:THR:H	1:46:A:LYS:HD2	12	0.21
(1,993)	1:27:A:VAL:H	1:27:A:VAL:HG13	6	0.21
(1,993)	1:27:A:VAL:H	1:27:A:VAL:HG11	18	0.21
(1,981)	1:83:A:ALA:H	1:81:A:ASN:HB3	2	0.21
(1,981)	1:83:A:ALA:H	1:81:A:ASN:HB3	10	0.21
(1,950)	1:89:A:VAL:H	1:88:A:GLU:HG3	18	0.21
(1,940)	1:178:A:GLU:H	1:178:A:GLU:HA	20	0.21
(1,914)	1:50:A:LYS:H	1:50:A:LYS:HG3	5	0.21
(1,914)	1:50:A:LYS:H	1:50:A:LYS:HG3	9	0.21
(1,898)	1:176:A:ARG:H	1:176:A:ARG:HD3	14	0.21
(1,855)	1:179:A:ASP:H	1:178:A:GLU:HB2	11	0.21
(1,852)	1:159:A:GLU:H	1:154:A:ALA:HB2	9	0.21
(1,841)	1:110:A:PHE:H	1:109:A:ILE:HG23	11	0.21
(1,828)	1:86:A:LEU:H	1:86:A:LEU:HD11	14	0.21
(1,820)	1:86:A:LEU:H	1:85:A:ARG:H	14	0.21
(1,820)	1:86:A:LEU:H	1:85:A:ARG:H	15	0.21
(1,820)	1:86:A:LEU:H	1:85:A:ARG:H	18	0.21
(1,815)	1:125:A:LEU:H	1:125:A:LEU:HG	6	0.21
(1,792)	1:87:A:LYS:H	1:78:A:PHE:HD1	1	0.21
(1,792)	1:87:A:LYS:H	1:78:A:PHE:HD1	6	0.21
(1,792)	1:87:A:LYS:H	1:78:A:PHE:HD1	10	0.21
(1,786)	1:87:A:LYS:H	1:87:A:LYS:HB2	7	0.21
(1,784)	1:92:A:VAL:H	1:98:A:LEU:HD22	19	0.21
(1,784)	1:92:A:VAL:H	1:98:A:LEU:HD22	20	0.21
(1,777)	1:92:A:VAL:H	1:100:A:PHE:HD1	19	0.21
(1,767)	1:14:A:ALA:H	1:14:A:ALA:HA	8	0.21
(1,767)	1:14:A:ALA:H	1:14:A:ALA:HA	9	0.21
(1,767)	1:14:A:ALA:H	1:14:A:ALA:HA	14	0.21
(1,767)	1:14:A:ALA:H	1:14:A:ALA:HA	17	0.21
(1,761)	1:174:A:LEU:H	1:174:A:LEU:HD12	20	0.21
(1,699)	1:137:A:LEU:H	1:137:A:LEU:HD13	2	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,699)	1:137:A:LEU:H	1:137:A:LEU:HD12	12	0.21
(1,658)	1:122:A:LEU:H	1:97:A:ILE:HB	7	0.21
(1,611)	1:81:A:ASN:H	1:86:A:LEU:HD23	20	0.21
(1,601)	1:55:A:MET:H	1:55:A:MET:HB2	5	0.21
(1,601)	1:55:A:MET:H	1:55:A:MET:HB2	9	0.21
(1,601)	1:55:A:MET:H	1:55:A:MET:HB2	20	0.21
(1,568)	1:88:A:GLU:H	1:78:A:PHE:HD2	18	0.21
(1,548)	1:61:A:PHE:H	1:60:A:MET:HB2	4	0.21
(1,495)	1:10:A:GLN:HG3	1:10:A:GLN:HB3	1	0.21
(1,495)	1:10:A:GLN:HB3	1:10:A:GLN:HG2	15	0.21
(1,445)	1:70:A:LYS:HA	1:70:A:LYS:HD2	8	0.21
(1,437)	1:37:A:LYS:HB3	1:34:A:TYR:HE2	18	0.21
(1,431)	1:67:A:LYS:HE3	1:44:A:TYR:HE1	14	0.21
(1,418)	1:149:A:MET:HG3	1:149:A:MET:HE3	3	0.21
(1,418)	1:149:A:MET:HG3	1:149:A:MET:HE1	7	0.21
(1,418)	1:149:A:MET:HG3	1:149:A:MET:HE3	11	0.21
(1,418)	1:149:A:MET:HG3	1:149:A:MET:HE1	12	0.21
(1,417)	1:156:A:SER:HB2	1:135:A:LYS:HE3	17	0.21
(1,401)	1:30:A:LYS:HB2	1:30:A:LYS:HA	19	0.21
(1,390)	1:170:A:THR:HA	1:72:A:VAL:HG12	14	0.21
(1,376)	1:30:A:LYS:HB3	1:31:A:VAL:HA	14	0.21
(1,371)	1:19:A:LEU:HB2	1:18:A:SER:HB2	4	0.21
(1,367)	1:121:A:SER:HB2	1:185:A:GLU:HA	5	0.21
(1,365)	1:76:A:SER:HB2	1:78:A:PHE:HD1	7	0.21
(1,365)	1:76:A:SER:HB2	1:78:A:PHE:HD1	17	0.21
(1,357)	1:34:A:TYR:HA	1:30:A:LYS:HE2	13	0.21
(1,345)	1:159:A:GLU:HG2	1:162:A:SER:HB2	16	0.21
(1,310)	1:14:A:ALA:HA	1:21:A:LYS:HD3	10	0.21
(1,295)	1:50:A:LYS:HE2	1:50:A:LYS:HA	9	0.21
(1,295)	1:50:A:LYS:HE3	1:50:A:LYS:HA	12	0.21
(1,295)	1:50:A:LYS:HE2	1:50:A:LYS:HA	20	0.21
(1,285)	1:69:A:LYS:HE2	1:97:A:ILE:HB	1	0.21
(1,285)	1:69:A:LYS:HE2	1:97:A:ILE:HB	3	0.21
(1,271)	1:87:A:LYS:HE2	1:111:A:ALA:HB2	8	0.21
(1,246)	1:87:A:LYS:HB2	1:79:A:LEU:HD21	17	0.21
(1,242)	1:4:A:LYS:HB3	1:4:A:LYS:HE3	9	0.21
(1,242)	1:4:A:LYS:HB3	1:4:A:LYS:HE2	20	0.21
(1,223)	1:159:A:GLU:HB2	1:162:A:SER:HB2	18	0.21
(1,214)	1:15:A:GLN:HB2	1:15:A:GLN:HG2	4	0.21
(1,190)	1:126:A:ILE:HD12	1:128:A:ARG:HG3	7	0.21
(1,169)	1:30:A:LYS:HG3	1:21:A:LYS:HE2	6	0.21
(1,161)	1:71:A:LEU:HD11	1:93:A:LEU:H	14	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,78)	1:107:A:LYS:H	1:103:A:GLU:HG2	11	0.21
(1,57)	1:75:A:GLY:H	1:77:A:VAL:HG23	13	0.21
(1,55)	1:96:A:ASP:H	1:97:A:ILE:HG13	12	0.21
(1,46)	1:175:A:ASN:H	1:174:A:LEU:HG	11	0.21
(1,35)	1:119:A:VAL:H	1:120:A:ILE:HG13	15	0.21
(1,35)	1:119:A:VAL:H	1:120:A:ILE:HG13	18	0.21
(1,33)	1:107:A:LYS:H	1:106:A:GLN:HG3	8	0.21
(1,33)	1:107:A:LYS:H	1:106:A:GLN:HG3	17	0.21
(1,33)	1:107:A:LYS:H	1:106:A:GLN:HG3	18	0.21
(1,24)	1:7:A:GLU:H	1:9:A:GLU:HG3	4	0.21
(1,23)	1:22:A:ASP:H	1:21:A:LYS:HG2	18	0.21
(1,22)	1:130:A:VAL:H	1:129:A:GLU:HB3	17	0.21
(1,20)	1:11:A:GLU:H	1:13:A:LEU:H	13	0.21
(1,20)	1:11:A:GLU:H	1:178:A:GLU:H	20	0.21
(2,22)	1:162:A:SER:H	1:159:A:GLU:O	1	0.2
(1,3529)	1:78:A:PHE:HE1	1:78:A:PHE:HB2	12	0.2
(1,3517)	1:63:A:LYS:HG2	1:44:A:TYR:HE1	3	0.2
(1,3516)	1:63:A:LYS:HE3	1:44:A:TYR:HE1	19	0.2
(1,3512)	1:101:A:LEU:HD13	1:108:A:TYR:HE2	8	0.2
(1,3512)	1:101:A:LEU:HD13	1:108:A:TYR:HE2	17	0.2
(1,3486)	1:138:A:PHE:HE2	1:128:A:ARG:HB3	10	0.2
(1,3432)	1:100:A:PHE:HZ	1:100:A:PHE:HD2	1	0.2
(1,3432)	1:100:A:PHE:HZ	1:100:A:PHE:HD2	3	0.2
(1,3432)	1:100:A:PHE:HZ	1:100:A:PHE:HD2	5	0.2
(1,3432)	1:100:A:PHE:HZ	1:100:A:PHE:HD2	7	0.2
(1,3432)	1:100:A:PHE:HZ	1:100:A:PHE:HD2	8	0.2
(1,3432)	1:100:A:PHE:HZ	1:100:A:PHE:HD2	9	0.2
(1,3432)	1:100:A:PHE:HZ	1:100:A:PHE:HD2	10	0.2
(1,3432)	1:100:A:PHE:HZ	1:100:A:PHE:HD2	11	0.2
(1,3432)	1:100:A:PHE:HZ	1:100:A:PHE:HD2	13	0.2
(1,3432)	1:100:A:PHE:HZ	1:100:A:PHE:HD2	14	0.2
(1,3432)	1:100:A:PHE:HZ	1:100:A:PHE:HD2	15	0.2
(1,3432)	1:100:A:PHE:HZ	1:100:A:PHE:HD2	16	0.2
(1,3432)	1:100:A:PHE:HZ	1:100:A:PHE:HD2	17	0.2
(1,3432)	1:100:A:PHE:HZ	1:100:A:PHE:HD2	19	0.2
(1,3432)	1:100:A:PHE:HZ	1:100:A:PHE:HD2	20	0.2
(1,3372)	1:59:A:GLN:HG3	1:59:A:GLN:HB3	1	0.2
(1,3372)	1:59:A:GLN:HG3	1:59:A:GLN:HB3	5	0.2
(1,3372)	1:59:A:GLN:HG3	1:59:A:GLN:HB3	10	0.2
(1,3372)	1:59:A:GLN:HG3	1:59:A:GLN:HB3	17	0.2
(1,3372)	1:59:A:GLN:HG3	1:59:A:GLN:HB3	19	0.2
(1,3372)	1:59:A:GLN:HG3	1:59:A:GLN:HB3	20	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3370)	1:174:A:LEU:HD22	1:171:A:ILE:HA	4	0.2
(1,3363)	1:52:A:ILE:HG13	1:60:A:MET:HG2	10	0.2
(1,3326)	1:50:A:LYS:HD2	1:50:A:LYS:HB2	10	0.2
(1,3301)	1:154:A:ALA:HB1	1:163:A:TRP:HD1	2	0.2
(1,3301)	1:154:A:ALA:HB1	1:163:A:TRP:HD1	14	0.2
(1,3276)	1:111:A:ALA:HB2	1:109:A:ILE:H	3	0.2
(1,3272)	1:98:A:LEU:H	1:97:A:ILE:HG23	1	0.2
(1,3272)	1:98:A:LEU:H	1:97:A:ILE:HG23	13	0.2
(1,3242)	1:113:A:LEU:HD11	1:81:A:ASN:H	9	0.2
(1,3236)	1:98:A:LEU:HD21	1:139:A:LEU:HB2	14	0.2
(1,3190)	1:36:A:LYS:HD2	1:33:A:SER:HA	1	0.2
(1,3190)	1:36:A:LYS:HD2	1:33:A:SER:HA	2	0.2
(1,3190)	1:36:A:LYS:HD2	1:33:A:SER:HA	4	0.2
(1,3190)	1:36:A:LYS:HD2	1:33:A:SER:HA	9	0.2
(1,3174)	1:101:A:LEU:HD22	1:108:A:TYR:HD2	19	0.2
(1,3173)	1:101:A:LEU:HD21	1:110:A:PHE:HD1	10	0.2
(1,3159)	1:149:A:MET:HB3	1:140:A:ILE:HD11	2	0.2
(1,3159)	1:149:A:MET:HB3	1:140:A:ILE:HD11	13	0.2
(1,3116)	1:87:A:LYS:HE3	1:113:A:LEU:HD23	6	0.2
(1,3113)	1:80:A:LYS:HE2	1:80:A:LYS:HB2	16	0.2
(1,3106)	1:36:A:LYS:HD2	1:36:A:LYS:HE2	19	0.2
(1,3105)	1:39:A:ARG:HD3	1:39:A:ARG:HA	6	0.2
(1,3105)	1:39:A:ARG:HD3	1:39:A:ARG:HA	15	0.2
(1,3103)	1:73:A:ARG:HD2	1:166:A:ILE:HG23	10	0.2
(1,3094)	1:66:A:LEU:HB3	1:61:A:PHE:HE1	7	0.2
(1,3034)	1:94:A:LEU:HD23	1:97:A:ILE:HG12	17	0.2
(1,2983)	1:36:A:LYS:HD3	1:36:A:LYS:HA	1	0.2
(1,2955)	1:145:A:THR:HG21	1:146:A:ASP:HB3	2	0.2
(1,2943)	1:53:A:MET:HE3	1:53:A:MET:HG3	7	0.2
(1,2912)	1:102:A:GLN:HA	1:89:A:VAL:HG23	5	0.2
(1,2904)	1:140:A:ILE:HD13	1:128:A:ARG:HB3	15	0.2
(1,2900)	1:142:A:MET:HB2	1:126:A:ILE:HG12	4	0.2
(1,2896)	1:176:A:ARG:HB3	1:176:A:ARG:HA	5	0.2
(1,2889)	1:111:A:ALA:HB2	1:100:A:PHE:HA	10	0.2
(1,2876)	1:173:A:THR:HG21	1:173:A:THR:HB	11	0.2
(1,2876)	1:173:A:THR:HG23	1:173:A:THR:HB	14	0.2
(1,2876)	1:173:A:THR:HG23	1:173:A:THR:HB	16	0.2
(1,2876)	1:173:A:THR:HG21	1:173:A:THR:HB	17	0.2
(1,2864)	1:118:A:THR:HB	1:113:A:LEU:HB2	7	0.2
(1,2819)	1:121:A:SER:HA	1:121:A:SER:HB2	8	0.2
(1,2818)	1:76:A:SER:HB3	1:78:A:PHE:HE1	19	0.2
(1,2789)	1:158:A:GLU:HG2	1:158:A:GLU:HA	9	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2756)	1:63:A:LYS:HA	1:44:A:TYR:HE2	17	0.2
(1,2727)	1:139:A:LEU:HD21	1:127:A:VAL:HA	11	0.2
(1,2715)	1:4:A:LYS:HA	1:8:A:VAL:HG11	17	0.2
(1,2710)	1:178:A:GLU:HA	1:177:A:ASP:HB2	3	0.2
(1,2669)	1:10:A:GLN:HA	1:10:A:GLN:HB2	14	0.2
(1,2631)	1:80:A:LYS:HA	1:86:A:LEU:HD11	2	0.2
(1,2605)	1:133:A:GLU:HA	1:130:A:VAL:HG11	10	0.2
(1,2599)	1:69:A:LYS:HA	1:69:A:LYS:HE2	2	0.2
(1,2598)	1:32:A:ALA:HA	1:35:A:GLU:HA	13	0.2
(1,2596)	1:32:A:ALA:HA	1:35:A:GLU:HB3	4	0.2
(1,2520)	1:73:A:ARG:HD2	1:163:A:TRP:HZ2	18	0.2
(1,2494)	1:126:A:ILE:HD13	1:128:A:ARG:HD3	5	0.2
(1,2473)	1:80:A:LYS:HE2	1:86:A:LEU:HD23	4	0.2
(1,2473)	1:80:A:LYS:HE2	1:86:A:LEU:HD23	13	0.2
(1,2442)	1:146:A:ASP:HB3	1:147:A:PRO:HD3	5	0.2
(1,2356)	1:128:A:ARG:HB3	1:130:A:VAL:H	2	0.2
(1,2356)	1:128:A:ARG:HB3	1:130:A:VAL:H	17	0.2
(1,2350)	1:102:A:GLN:HG3	1:89:A:VAL:HG12	10	0.2
(1,2327)	1:4:A:LYS:HB2	1:8:A:VAL:HG13	18	0.2
(1,2292)	1:4:A:LYS:HB2	1:9:A:GLU:HA	15	0.2
(1,2241)	1:63:A:LYS:HD3	1:63:A:LYS:HA	2	0.2
(1,2224)	1:159:A:GLU:HB3	1:159:A:GLU:HG3	1	0.2
(1,2224)	1:159:A:GLU:HB3	1:159:A:GLU:HG3	16	0.2
(1,2224)	1:159:A:GLU:HB3	1:159:A:GLU:HG3	19	0.2
(1,2188)	1:98:A:LEU:HD22	1:93:A:LEU:HD23	16	0.2
(1,2157)	1:135:A:LYS:HD3	1:135:A:LYS:HB3	1	0.2
(1,2119)	1:137:A:LEU:HD13	1:163:A:TRP:HB3	14	0.2
(1,2082)	1:182:A:ILE:HG13	1:182:A:ILE:HA	6	0.2
(1,2049)	1:113:A:LEU:HD12	1:113:A:LEU:HA	20	0.2
(1,1989)	1:174:A:LEU:HD11	1:123:A:LYS:HG3	3	0.2
(1,1959)	1:66:A:LEU:HD13	1:66:A:LEU:HA	8	0.2
(1,1942)	1:37:A:LYS:HG3	1:37:A:LYS:HA	4	0.2
(1,1942)	1:37:A:LYS:HG3	1:37:A:LYS:HA	14	0.2
(1,1942)	1:37:A:LYS:HG3	1:37:A:LYS:HA	18	0.2
(1,1940)	1:50:A:LYS:HG3	1:50:A:LYS:HA	3	0.2
(1,1940)	1:50:A:LYS:HG3	1:50:A:LYS:HA	14	0.2
(1,1940)	1:50:A:LYS:HG3	1:50:A:LYS:HA	19	0.2
(1,1929)	1:94:A:LEU:HD21	1:69:A:LYS:HD2	2	0.2
(1,1918)	1:67:A:LYS:HG2	1:67:A:LYS:HD2	16	0.2
(1,1897)	1:86:A:LEU:HD23	1:86:A:LEU:HD13	4	0.2
(1,1867)	1:19:A:LEU:HD21	1:19:A:LEU:HA	7	0.2
(1,1860)	1:62:A:ALA:HB1	1:110:A:PHE:HE2	9	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1811)	1:38:A:VAL:HG12	1:38:A:VAL:HG23	1	0.2
(1,1804)	1:127:A:VAL:HG12	1:127:A:VAL:HA	9	0.2
(1,1787)	1:101:A:LEU:HD21	1:66:A:LEU:HD13	11	0.2
(1,1763)	1:99:A:VAL:HG11	1:101:A:LEU:HG	4	0.2
(1,1763)	1:99:A:VAL:HG11	1:101:A:LEU:HG	12	0.2
(1,1748)	1:72:A:VAL:HG23	1:95:A:THR:HA	18	0.2
(1,1741)	1:119:A:VAL:HG13	1:110:A:PHE:HD1	12	0.2
(1,1683)	1:83:A:ALA:HB1	1:83:A:ALA:HA	1	0.2
(1,1683)	1:83:A:ALA:HB1	1:83:A:ALA:HA	3	0.2
(1,1683)	1:83:A:ALA:HB1	1:83:A:ALA:HA	7	0.2
(1,1683)	1:83:A:ALA:HB3	1:83:A:ALA:HA	8	0.2
(1,1683)	1:83:A:ALA:HB2	1:83:A:ALA:HA	10	0.2
(1,1683)	1:83:A:ALA:HB1	1:83:A:ALA:HA	14	0.2
(1,1683)	1:83:A:ALA:HB1	1:83:A:ALA:HA	17	0.2
(1,1683)	1:83:A:ALA:HB2	1:83:A:ALA:HA	18	0.2
(1,1668)	1:97:A:ILE:HG21	1:121:A:SER:HB3	17	0.2
(1,1666)	1:97:A:ILE:HG23	1:119:A:VAL:HG21	6	0.2
(1,1652)	1:131:A:ALA:HB3	1:131:A:ALA:HA	2	0.2
(1,1624)	1:43:A:ILE:HG23	1:43:A:ILE:HG13	8	0.2
(1,1624)	1:43:A:ILE:HG21	1:43:A:ILE:HG13	11	0.2
(1,1624)	1:43:A:ILE:HG22	1:43:A:ILE:HG13	16	0.2
(1,1594)	1:55:A:MET:HE2	1:120:A:ILE:HA	3	0.2
(1,1594)	1:55:A:MET:HE3	1:120:A:ILE:HA	14	0.2
(1,1593)	1:55:A:MET:HE1	1:121:A:SER:HB3	4	0.2
(1,1583)	1:164:A:ILE:HG23	1:129:A:GLU:HG3	20	0.2
(1,1582)	1:164:A:ILE:HG22	1:129:A:GLU:HG2	3	0.2
(1,1582)	1:164:A:ILE:HG23	1:129:A:GLU:HG2	10	0.2
(1,1570)	1:171:A:ILE:HD11	1:122:A:LEU:HB3	2	0.2
(1,1570)	1:171:A:ILE:HD12	1:122:A:LEU:HB3	18	0.2
(1,1548)	1:120:A:ILE:HD12	1:139:A:LEU:HB2	7	0.2
(1,1548)	1:120:A:ILE:HD13	1:139:A:LEU:HB2	18	0.2
(1,1539)	1:140:A:ILE:HD12	1:149:A:MET:HB2	4	0.2
(1,1534)	1:140:A:ILE:HD11	1:140:A:ILE:HG13	4	0.2
(1,1527)	1:52:A:ILE:HD11	1:52:A:ILE:HG13	1	0.2
(1,1527)	1:52:A:ILE:HD13	1:52:A:ILE:HG13	3	0.2
(1,1527)	1:52:A:ILE:HD13	1:52:A:ILE:HG13	5	0.2
(1,1527)	1:52:A:ILE:HD12	1:52:A:ILE:HG13	7	0.2
(1,1527)	1:52:A:ILE:HD13	1:52:A:ILE:HG13	9	0.2
(1,1527)	1:52:A:ILE:HD12	1:52:A:ILE:HG13	11	0.2
(1,1527)	1:52:A:ILE:HD12	1:52:A:ILE:HG13	12	0.2
(1,1527)	1:52:A:ILE:HD13	1:52:A:ILE:HG13	15	0.2
(1,1527)	1:52:A:ILE:HD11	1:52:A:ILE:HG13	19	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1527)	1:52:A:ILE:HD12	1:52:A:ILE:HG13	20	0.2
(1,1522)	1:166:A:ILE:HD13	1:73:A:ARG:HB2	7	0.2
(1,1522)	1:166:A:ILE:HD13	1:73:A:ARG:HB2	20	0.2
(1,1466)	1:10:A:GLN:H	1:10:A:GLN:HG2	11	0.2
(1,1465)	1:5:A:ASP:H	1:5:A:ASP:HA	7	0.2
(1,1465)	1:5:A:ASP:H	1:5:A:ASP:HA	15	0.2
(1,1465)	1:5:A:ASP:H	1:5:A:ASP:HA	18	0.2
(1,1457)	1:107:A:LYS:H	1:104:A:LYS:HB2	6	0.2
(1,1457)	1:107:A:LYS:H	1:104:A:LYS:HB2	19	0.2
(1,1422)	1:134:A:GLU:H	1:135:A:LYS:HD2	11	0.2
(1,1415)	1:83:A:ALA:H	1:81:A:ASN:HA	6	0.2
(1,1410)	1:172:A:ASN:HD22	1:168:A:GLN:HG3	12	0.2
(1,1410)	1:172:A:ASN:HD22	1:168:A:GLN:HG3	17	0.2
(1,1400)	1:69:A:LYS:H	1:68:A:ARG:HB3	2	0.2
(1,1390)	1:184:A:SER:H	1:59:A:GLN:HG2	5	0.2
(1,1301)	1:79:A:LEU:H	1:78:A:PHE:HD1	11	0.2
(1,1301)	1:79:A:LEU:H	1:78:A:PHE:HD2	19	0.2
(1,1289)	1:93:A:LEU:H	1:98:A:LEU:HD21	1	0.2
(1,1284)	1:44:A:TYR:H	1:44:A:TYR:HD1	19	0.2
(1,1274)	1:163:A:TRP:HE1	1:77:A:VAL:HG12	7	0.2
(1,1241)	1:96:A:ASP:H	1:95:A:THR:HG23	1	0.2
(1,1216)	1:118:A:THR:H	1:117:A:SER:HB2	6	0.2
(1,1216)	1:118:A:THR:H	1:117:A:SER:HB2	15	0.2
(1,1199)	1:67:A:LYS:H	1:67:A:LYS:HB3	3	0.2
(1,1199)	1:67:A:LYS:H	1:67:A:LYS:HB3	7	0.2
(1,1132)	1:66:A:LEU:H	1:66:A:LEU:HB3	3	0.2
(1,1132)	1:66:A:LEU:H	1:66:A:LEU:HB3	12	0.2
(1,1117)	1:65:A:ASP:H	1:64:A:GLU:HB2	13	0.2
(1,1110)	1:73:A:ARG:H	1:73:A:ARG:HB2	14	0.2
(1,1088)	1:166:A:ILE:H	1:166:A:ILE:HD11	17	0.2
(1,1080)	1:123:A:LYS:H	1:174:A:LEU:HD12	18	0.2
(1,1074)	1:162:A:SER:H	1:161:A:ASN:HB3	1	0.2
(1,1074)	1:162:A:SER:H	1:161:A:ASN:HB3	12	0.2
(1,1074)	1:162:A:SER:H	1:161:A:ASN:HB3	15	0.2
(1,1071)	1:162:A:SER:H	1:165:A:GLN:HE21	1	0.2
(1,1057)	1:172:A:ASN:H	1:172:A:ASN:HB3	8	0.2
(1,1011)	1:47:A:THR:H	1:46:A:LYS:HD2	16	0.2
(1,993)	1:27:A:VAL:H	1:27:A:VAL:HG11	16	0.2
(1,981)	1:83:A:ALA:H	1:81:A:ASN:HB3	5	0.2
(1,981)	1:83:A:ALA:H	1:81:A:ASN:HB3	11	0.2
(1,981)	1:83:A:ALA:H	1:81:A:ASN:HB3	20	0.2
(1,931)	1:121:A:SER:H	1:120:A:ILE:HG22	19	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,914)	1:50:A:LYS:H	1:50:A:LYS:HG3	1	0.2
(1,898)	1:176:A:ARG:H	1:176:A:ARG:HD3	2	0.2
(1,898)	1:176:A:ARG:H	1:176:A:ARG:HD3	20	0.2
(1,841)	1:110:A:PHE:H	1:109:A:ILE:HG22	4	0.2
(1,841)	1:110:A:PHE:H	1:109:A:ILE:HG21	16	0.2
(1,841)	1:110:A:PHE:H	1:109:A:ILE:HG22	20	0.2
(1,835)	1:12:A:ASP:H	1:174:A:LEU:HA	11	0.2
(1,835)	1:12:A:ASP:H	1:174:A:LEU:HA	17	0.2
(1,827)	1:86:A:LEU:H	1:86:A:LEU:HD21	13	0.2
(1,820)	1:86:A:LEU:H	1:85:A:ARG:H	5	0.2
(1,820)	1:86:A:LEU:H	1:85:A:ARG:H	9	0.2
(1,820)	1:86:A:LEU:H	1:85:A:ARG:H	11	0.2
(1,786)	1:87:A:LYS:H	1:87:A:LYS:HB2	10	0.2
(1,784)	1:92:A:VAL:H	1:98:A:LEU:HD22	10	0.2
(1,782)	1:92:A:VAL:H	1:99:A:VAL:HB	3	0.2
(1,782)	1:92:A:VAL:H	1:99:A:VAL:HB	12	0.2
(1,761)	1:174:A:LEU:H	1:174:A:LEU:HD11	17	0.2
(1,699)	1:137:A:LEU:H	1:137:A:LEU:HD13	4	0.2
(1,699)	1:137:A:LEU:H	1:137:A:LEU:HD13	19	0.2
(1,693)	1:28:A:ASP:H	1:27:A:VAL:HB	11	0.2
(1,592)	1:120:A:ILE:H	1:120:A:ILE:HG12	9	0.2
(1,592)	1:120:A:ILE:H	1:120:A:ILE:HG12	13	0.2
(1,582)	1:167:A:ILE:H	1:127:A:VAL:HG11	9	0.2
(1,564)	1:104:A:LYS:H	1:103:A:GLU:HG3	9	0.2
(1,564)	1:104:A:LYS:H	1:103:A:GLU:HG3	11	0.2
(1,549)	1:61:A:PHE:H	1:52:A:ILE:HG21	8	0.2
(1,548)	1:61:A:PHE:H	1:60:A:MET:HB2	6	0.2
(1,515)	1:37:A:LYS:HD2	1:34:A:TYR:HE2	5	0.2
(1,506)	1:35:A:GLU:HA	1:34:A:TYR:HD1	12	0.2
(1,459)	1:15:A:GLN:HB2	1:4:A:LYS:HE3	5	0.2
(1,444)	1:166:A:ILE:HG21	1:93:A:LEU:HB3	7	0.2
(1,440)	1:36:A:LYS:HE2	1:36:A:LYS:HD3	11	0.2
(1,418)	1:149:A:MET:HG3	1:149:A:MET:HE3	4	0.2
(1,418)	1:149:A:MET:HG3	1:149:A:MET:HE3	9	0.2
(1,418)	1:149:A:MET:HG3	1:149:A:MET:HE1	10	0.2
(1,418)	1:149:A:MET:HG3	1:149:A:MET:HE1	18	0.2
(1,417)	1:156:A:SER:HB2	1:135:A:LYS:HE3	5	0.2
(1,401)	1:30:A:LYS:HB2	1:30:A:LYS:HA	2	0.2
(1,401)	1:30:A:LYS:HB2	1:30:A:LYS:HA	14	0.2
(1,401)	1:30:A:LYS:HB2	1:30:A:LYS:HA	18	0.2
(1,401)	1:30:A:LYS:HB2	1:30:A:LYS:HA	20	0.2
(1,385)	1:56:A:LYS:HB2	1:183:A:PRO:HA	11	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,385)	1:56:A:LYS:HB2	1:183:A:PRO:HA	13	0.2
(1,376)	1:30:A:LYS:HB3	1:31:A:VAL:HA	18	0.2
(1,357)	1:34:A:TYR:HA	1:30:A:LYS:HE3	4	0.2
(1,351)	1:56:A:LYS:HG2	1:56:A:LYS:HA	2	0.2
(1,348)	1:162:A:SER:HB2	1:161:A:ASN:HB3	17	0.2
(1,339)	1:157:A:LYS:HA	1:134:A:GLU:HB3	9	0.2
(1,319)	1:22:A:ASP:HA	1:23:A:VAL:HG11	4	0.2
(1,282)	1:37:A:LYS:HE2	1:67:A:LYS:HG2	6	0.2
(1,282)	1:37:A:LYS:HE3	1:67:A:LYS:HG2	8	0.2
(1,262)	1:24:A:ILE:HG22	1:24:A:ILE:HB	12	0.2
(1,262)	1:24:A:ILE:HG23	1:24:A:ILE:HB	19	0.2
(1,246)	1:87:A:LYS:HB2	1:79:A:LEU:HD22	6	0.2
(1,229)	1:30:A:LYS:HB2	1:27:A:VAL:HG23	5	0.2
(1,229)	1:30:A:LYS:HB3	1:27:A:VAL:HG22	7	0.2
(1,229)	1:30:A:LYS:HB2	1:27:A:VAL:HG22	18	0.2
(1,223)	1:159:A:GLU:HB2	1:162:A:SER:HB3	12	0.2
(1,223)	1:159:A:GLU:HB2	1:162:A:SER:HB2	19	0.2
(1,214)	1:15:A:GLN:HB2	1:15:A:GLN:HG3	6	0.2
(1,214)	1:15:A:GLN:HB2	1:15:A:GLN:HG3	20	0.2
(1,204)	1:107:A:LYS:HD3	1:107:A:LYS:HG3	1	0.2
(1,190)	1:126:A:ILE:HD11	1:128:A:ARG:HG3	1	0.2
(1,190)	1:126:A:ILE:HD11	1:128:A:ARG:HG3	2	0.2
(1,190)	1:126:A:ILE:HD11	1:128:A:ARG:HG3	17	0.2
(1,154)	1:71:A:LEU:HD11	1:74:A:ASP:HB2	11	0.2
(1,85)	1:142:A:MET:H	1:141:A:SER:HB2	17	0.2
(1,78)	1:107:A:LYS:H	1:103:A:GLU:HG2	2	0.2
(1,76)	1:181:A:GLY:H	1:181:A:GLY:HA2	10	0.2
(1,62)	1:4:A:LYS:H	1:5:A:ASP:HB2	16	0.2
(1,39)	1:170:A:THR:H	1:93:A:LEU:HD23	2	0.2
(1,37)	1:169:A:ASP:H	1:167:A:ILE:HD13	3	0.2
(1,33)	1:107:A:LYS:H	1:106:A:GLN:HG3	16	0.2
(1,24)	1:7:A:GLU:H	1:9:A:GLU:HG3	5	0.2
(1,24)	1:7:A:GLU:H	1:9:A:GLU:HG2	11	0.2
(1,22)	1:130:A:VAL:H	1:129:A:GLU:HB3	18	0.2
(1,22)	1:130:A:VAL:H	1:129:A:GLU:HB3	20	0.2
(1,3)	1:185:A:GLU:H	1:185:A:GLU:HG3	2	0.2
(2,24)	1:167:A:ILE:H	1:163:A:TRP:O	19	0.19
(2,21)	1:161:A:ASN:H	1:158:A:GLU:O	14	0.19
(1,3517)	1:63:A:LYS:HG2	1:44:A:TYR:HE2	6	0.19
(1,3516)	1:63:A:LYS:HE3	1:44:A:TYR:HE2	12	0.19
(1,3515)	1:38:A:VAL:HG22	1:34:A:TYR:HE2	14	0.19
(1,3512)	1:101:A:LEU:HD11	1:108:A:TYR:HE2	20	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3503)	1:78:A:PHE:HE1	1:78:A:PHE:H	17	0.19
(1,3490)	1:51:A:SER:HB2	1:110:A:PHE:HD2	18	0.19
(1,3450)	1:61:A:PHE:HD2	1:55:A:MET:HG2	17	0.19
(1,3372)	1:59:A:GLN:HG3	1:59:A:GLN:HB3	3	0.19
(1,3371)	1:67:A:LYS:HD2	1:67:A:LYS:HB3	1	0.19
(1,3346)	1:69:A:LYS:HD2	1:97:A:ILE:HD12	2	0.19
(1,3342)	1:55:A:MET:HE1	1:61:A:PHE:HB3	20	0.19
(1,3332)	1:76:A:SER:HB3	1:88:A:GLU:HG2	15	0.19
(1,3301)	1:154:A:ALA:HB3	1:163:A:TRP:HD1	6	0.19
(1,3272)	1:98:A:LEU:H	1:97:A:ILE:HG23	4	0.19
(1,3226)	1:89:A:VAL:HG11	1:102:A:GLN:H	19	0.19
(1,3222)	1:77:A:VAL:HG21	1:78:A:PHE:H	1	0.19
(1,3222)	1:77:A:VAL:HG23	1:78:A:PHE:H	7	0.19
(1,3215)	1:15:A:GLN:HB2	1:2:A:MET:HG3	20	0.19
(1,3207)	1:166:A:ILE:HG22	1:167:A:ILE:H	19	0.19
(1,3202)	1:152:A:VAL:HG22	1:137:A:LEU:HG	12	0.19
(1,3190)	1:36:A:LYS:HD2	1:33:A:SER:HA	11	0.19
(1,3173)	1:101:A:LEU:HD23	1:110:A:PHE:HD1	9	0.19
(1,3173)	1:101:A:LEU:HD22	1:110:A:PHE:HD1	11	0.19
(1,3173)	1:101:A:LEU:HD23	1:110:A:PHE:HD1	13	0.19
(1,3157)	1:22:A:ASP:HB2	1:22:A:ASP:HA	4	0.19
(1,3152)	1:97:A:ILE:HD13	1:65:A:ASP:HB3	20	0.19
(1,3106)	1:36:A:LYS:HD2	1:36:A:LYS:HE2	2	0.19
(1,3106)	1:36:A:LYS:HD2	1:36:A:LYS:HE2	5	0.19
(1,3106)	1:36:A:LYS:HD2	1:36:A:LYS:HE2	12	0.19
(1,3105)	1:39:A:ARG:HD3	1:39:A:ARG:HA	5	0.19
(1,3055)	1:144:A:MET:HG3	1:145:A:THR:HG23	9	0.19
(1,3046)	1:54:A:ARG:HA	1:59:A:GLN:HG2	7	0.19
(1,3034)	1:94:A:LEU:HD22	1:97:A:ILE:HG12	9	0.19
(1,3022)	1:140:A:ILE:HD11	1:138:A:PHE:HA	7	0.19
(1,3022)	1:140:A:ILE:HD13	1:138:A:PHE:HA	13	0.19
(1,3010)	1:144:A:MET:HB3	1:144:A:MET:HG3	3	0.19
(1,3010)	1:144:A:MET:HB3	1:144:A:MET:HG3	9	0.19
(1,3010)	1:144:A:MET:HB3	1:144:A:MET:HG3	10	0.19
(1,3010)	1:144:A:MET:HB3	1:144:A:MET:HG3	13	0.19
(1,3010)	1:144:A:MET:HB3	1:144:A:MET:HG3	20	0.19
(1,2967)	1:63:A:LYS:HE2	1:44:A:TYR:HE1	1	0.19
(1,2955)	1:145:A:THR:HG22	1:146:A:ASP:HB3	6	0.19
(1,2950)	1:60:A:MET:HG2	1:60:A:MET:HE2	12	0.19
(1,2950)	1:60:A:MET:HG2	1:60:A:MET:HE1	15	0.19
(1,2948)	1:53:A:MET:HE3	1:110:A:PHE:HE1	6	0.19
(1,2943)	1:53:A:MET:HE1	1:53:A:MET:HG3	20	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2924)	1:166:A:ILE:HD13	1:163:A:TRP:HA	11	0.19
(1,2904)	1:140:A:ILE:HD13	1:128:A:ARG:HB3	9	0.19
(1,2904)	1:140:A:ILE:HD12	1:128:A:ARG:HB3	17	0.19
(1,2900)	1:142:A:MET:HB2	1:126:A:ILE:HG12	1	0.19
(1,2900)	1:142:A:MET:HB2	1:126:A:ILE:HG12	2	0.19
(1,2876)	1:173:A:THR:HG21	1:173:A:THR:HB	2	0.19
(1,2876)	1:173:A:THR:HG23	1:173:A:THR:HB	15	0.19
(1,2819)	1:121:A:SER:HA	1:121:A:SER:HB2	3	0.19
(1,2819)	1:121:A:SER:HA	1:121:A:SER:HB2	14	0.19
(1,2818)	1:76:A:SER:HB3	1:78:A:PHE:HE1	6	0.19
(1,2818)	1:76:A:SER:HB3	1:78:A:PHE:HE1	8	0.19
(1,2818)	1:76:A:SER:HB3	1:78:A:PHE:HE1	10	0.19
(1,2812)	1:56:A:LYS:HA	1:56:A:LYS:HE2	5	0.19
(1,2812)	1:56:A:LYS:HA	1:56:A:LYS:HE2	12	0.19
(1,2812)	1:56:A:LYS:HA	1:56:A:LYS:HE2	13	0.19
(1,2812)	1:56:A:LYS:HA	1:56:A:LYS:HE2	19	0.19
(1,2803)	1:37:A:LYS:HA	1:40:A:LEU:HD11	8	0.19
(1,2789)	1:158:A:GLU:HG2	1:158:A:GLU:HA	20	0.19
(1,2783)	1:117:A:SER:HA	1:55:A:MET:HB3	8	0.19
(1,2739)	1:123:A:LYS:HD3	1:123:A:LYS:HA	15	0.19
(1,2727)	1:139:A:LEU:HD21	1:127:A:VAL:HA	14	0.19
(1,2727)	1:139:A:LEU:HD23	1:127:A:VAL:HA	16	0.19
(1,2727)	1:139:A:LEU:HD22	1:127:A:VAL:HA	18	0.19
(1,2727)	1:139:A:LEU:HD23	1:127:A:VAL:HA	20	0.19
(1,2677)	1:144:A:MET:HG2	1:144:A:MET:HA	2	0.19
(1,2672)	1:106:A:GLN:HG3	1:105:A:ASP:HA	5	0.19
(1,2635)	1:6:A:ASN:HA	1:9:A:GLU:HB3	14	0.19
(1,2631)	1:80:A:LYS:HA	1:86:A:LEU:HD12	14	0.19
(1,2607)	1:153:A:HIS:HA	1:136:A:GLY:HA2	4	0.19
(1,2605)	1:133:A:GLU:HA	1:130:A:VAL:HG11	14	0.19
(1,2599)	1:69:A:LYS:HA	1:69:A:LYS:HE2	19	0.19
(1,2596)	1:32:A:ALA:HA	1:35:A:GLU:HB3	9	0.19
(1,2596)	1:32:A:ALA:HA	1:35:A:GLU:HB3	15	0.19
(1,2596)	1:32:A:ALA:HA	1:35:A:GLU:HB3	17	0.19
(1,2476)	1:80:A:LYS:HE3	1:86:A:LEU:HD11	5	0.19
(1,2464)	1:46:A:LYS:HE3	1:43:A:ILE:HG12	2	0.19
(1,2421)	1:105:A:ASP:HB2	1:104:A:LYS:HB3	1	0.19
(1,2407)	1:38:A:VAL:HG12	1:41:A:ASN:HB3	12	0.19
(1,2391)	1:151:A:GLU:HG3	1:80:A:LYS:HB3	14	0.19
(1,2374)	1:42:A:GLU:HG3	1:42:A:GLU:HA	19	0.19
(1,2356)	1:128:A:ARG:HB3	1:130:A:VAL:H	3	0.19
(1,2356)	1:128:A:ARG:HB3	1:130:A:VAL:H	18	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2304)	1:123:A:LYS:HB3	1:123:A:LYS:HE2	14	0.19
(1,2291)	1:4:A:LYS:HB3	1:9:A:GLU:HA	19	0.19
(1,2279)	1:123:A:LYS:HB2	1:174:A:LEU:HD11	3	0.19
(1,2271)	1:144:A:MET:HG2	1:144:A:MET:HB2	11	0.19
(1,2271)	1:144:A:MET:HG2	1:144:A:MET:HB2	17	0.19
(1,2253)	1:176:A:ARG:HB3	1:173:A:THR:HG23	2	0.19
(1,2241)	1:63:A:LYS:HD3	1:63:A:LYS:HA	12	0.19
(1,2224)	1:159:A:GLU:HB3	1:159:A:GLU:HG3	13	0.19
(1,2216)	1:104:A:LYS:HD3	1:104:A:LYS:HG3	19	0.19
(1,2182)	1:80:A:LYS:HD2	1:84:A:GLY:HA2	19	0.19
(1,2135)	1:126:A:ILE:HG13	1:140:A:ILE:HD11	13	0.19
(1,2099)	1:66:A:LEU:HG	1:97:A:ILE:HG13	9	0.19
(1,2051)	1:113:A:LEU:HD13	1:113:A:LEU:HD22	8	0.19
(1,2051)	1:113:A:LEU:HD12	1:113:A:LEU:HD21	18	0.19
(1,1989)	1:174:A:LEU:HD11	1:123:A:LYS:HG3	15	0.19
(1,1989)	1:174:A:LEU:HD13	1:123:A:LYS:HG3	16	0.19
(1,1976)	1:101:A:LEU:HD12	1:101:A:LEU:HA	5	0.19
(1,1959)	1:66:A:LEU:HD13	1:66:A:LEU:HA	2	0.19
(1,1959)	1:66:A:LEU:HD11	1:66:A:LEU:HA	18	0.19
(1,1940)	1:50:A:LYS:HG3	1:50:A:LYS:HA	6	0.19
(1,1940)	1:50:A:LYS:HG3	1:50:A:LYS:HA	11	0.19
(1,1935)	1:56:A:LYS:HG2	1:121:A:SER:HB2	11	0.19
(1,1929)	1:94:A:LEU:HD22	1:69:A:LYS:HD2	6	0.19
(1,1923)	1:67:A:LYS:HG2	1:44:A:TYR:HD2	11	0.19
(1,1918)	1:67:A:LYS:HG2	1:67:A:LYS:HD2	2	0.19
(1,1918)	1:67:A:LYS:HG2	1:67:A:LYS:HD2	4	0.19
(1,1918)	1:67:A:LYS:HG2	1:67:A:LYS:HD2	6	0.19
(1,1918)	1:67:A:LYS:HG2	1:67:A:LYS:HD2	8	0.19
(1,1918)	1:67:A:LYS:HG2	1:67:A:LYS:HD2	9	0.19
(1,1918)	1:67:A:LYS:HG2	1:67:A:LYS:HD2	10	0.19
(1,1897)	1:86:A:LEU:HD22	1:86:A:LEU:HD11	20	0.19
(1,1888)	1:174:A:LEU:HD23	1:123:A:LYS:HG2	11	0.19
(1,1884)	1:174:A:LEU:HD21	1:12:A:ASP:HB2	13	0.19
(1,1863)	1:95:A:THR:HG22	1:70:A:LYS:HG2	4	0.19
(1,1860)	1:62:A:ALA:HB2	1:110:A:PHE:HE2	2	0.19
(1,1846)	1:170:A:THR:HG23	1:72:A:VAL:HG12	12	0.19
(1,1835)	1:173:A:THR:HG21	1:176:A:ARG:HD3	5	0.19
(1,1829)	1:3:A:THR:HG23	1:3:A:THR:HB	1	0.19
(1,1829)	1:3:A:THR:HG22	1:3:A:THR:HB	5	0.19
(1,1829)	1:3:A:THR:HG21	1:3:A:THR:HB	6	0.19
(1,1829)	1:3:A:THR:HG22	1:3:A:THR:HB	9	0.19
(1,1829)	1:3:A:THR:HG22	1:3:A:THR:HB	10	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1829)	1:3:A:THR:HG22	1:3:A:THR:HB	11	0.19
(1,1829)	1:3:A:THR:HG21	1:3:A:THR:HB	14	0.19
(1,1829)	1:3:A:THR:HG22	1:3:A:THR:HB	16	0.19
(1,1825)	1:45:A:THR:HG22	1:46:A:LYS:HA	16	0.19
(1,1815)	1:173:A:THR:HG21	1:176:A:ARG:HB2	4	0.19
(1,1811)	1:38:A:VAL:HG11	1:38:A:VAL:HG21	3	0.19
(1,1811)	1:38:A:VAL:HG11	1:38:A:VAL:HG21	20	0.19
(1,1804)	1:127:A:VAL:HG13	1:127:A:VAL:HA	3	0.19
(1,1792)	1:122:A:LEU:HD13	1:122:A:LEU:HA	20	0.19
(1,1741)	1:119:A:VAL:HG12	1:110:A:PHE:HD1	15	0.19
(1,1726)	1:20:A:VAL:HG21	1:21:A:LYS:HA	18	0.19
(1,1687)	1:111:A:ALA:HB3	1:89:A:VAL:HG22	16	0.19
(1,1649)	1:167:A:ILE:HG23	1:127:A:VAL:HB	16	0.19
(1,1643)	1:52:A:ILE:HG23	1:52:A:ILE:HB	8	0.19
(1,1624)	1:43:A:ILE:HG23	1:43:A:ILE:HG13	15	0.19
(1,1624)	1:43:A:ILE:HG21	1:43:A:ILE:HG13	18	0.19
(1,1603)	1:149:A:MET:HE3	1:149:A:MET:HA	18	0.19
(1,1594)	1:55:A:MET:HE1	1:120:A:ILE:HA	19	0.19
(1,1593)	1:55:A:MET:HE3	1:121:A:SER:HB3	8	0.19
(1,1582)	1:164:A:ILE:HG23	1:129:A:GLU:HG2	15	0.19
(1,1539)	1:140:A:ILE:HD11	1:149:A:MET:HB2	16	0.19
(1,1534)	1:140:A:ILE:HD13	1:140:A:ILE:HG13	2	0.19
(1,1534)	1:140:A:ILE:HD12	1:140:A:ILE:HG13	6	0.19
(1,1527)	1:52:A:ILE:HD11	1:52:A:ILE:HG13	13	0.19
(1,1527)	1:52:A:ILE:HD11	1:52:A:ILE:HG13	14	0.19
(1,1527)	1:52:A:ILE:HD11	1:52:A:ILE:HG13	18	0.19
(1,1522)	1:166:A:ILE:HD12	1:73:A:ARG:HB2	10	0.19
(1,1476)	1:142:A:MET:H	1:142:A:MET:HG3	2	0.19
(1,1463)	1:85:A:ARG:H	1:85:A:ARG:HG3	16	0.19
(1,1463)	1:85:A:ARG:H	1:85:A:ARG:HG3	19	0.19
(1,1460)	1:85:A:ARG:H	1:83:A:ALA:HB3	3	0.19
(1,1460)	1:85:A:ARG:H	1:83:A:ALA:HB1	4	0.19
(1,1460)	1:85:A:ARG:H	1:83:A:ALA:HB1	15	0.19
(1,1460)	1:85:A:ARG:H	1:83:A:ALA:HB3	17	0.19
(1,1457)	1:107:A:LYS:H	1:104:A:LYS:HB2	5	0.19
(1,1426)	1:181:A:GLY:H	1:180:A:GLU:HB3	20	0.19
(1,1421)	1:134:A:GLU:H	1:134:A:GLU:HG3	1	0.19
(1,1410)	1:172:A:ASN:HD22	1:168:A:GLN:HG3	10	0.19
(1,1400)	1:69:A:LYS:H	1:68:A:ARG:HB3	10	0.19
(1,1388)	1:165:A:GLN:HE22	1:166:A:ILE:HG12	5	0.19
(1,1388)	1:165:A:GLN:HE22	1:166:A:ILE:HG12	7	0.19
(1,1367)	1:135:A:LYS:H	1:135:A:LYS:HG2	9	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1366)	1:135:A:LYS:H	1:135:A:LYS:HB2	5	0.19
(1,1311)	1:63:A:LYS:H	1:63:A:LYS:HD2	7	0.19
(1,1311)	1:63:A:LYS:H	1:63:A:LYS:HD2	13	0.19
(1,1301)	1:79:A:LEU:H	1:78:A:PHE:HD1	10	0.19
(1,1142)	1:165:A:GLN:H	1:164:A:ILE:HG23	8	0.19
(1,1132)	1:66:A:LEU:H	1:66:A:LEU:HB3	11	0.19
(1,1110)	1:73:A:ARG:H	1:73:A:ARG:HB2	6	0.19
(1,1071)	1:162:A:SER:H	1:165:A:GLN:HE21	6	0.19
(1,1071)	1:162:A:SER:H	1:165:A:GLN:HE21	15	0.19
(1,1070)	1:162:A:SER:H	1:161:A:ASN:HD21	11	0.19
(1,1060)	1:172:A:ASN:H	1:171:A:ILE:HG21	13	0.19
(1,1060)	1:172:A:ASN:H	1:171:A:ILE:HG21	20	0.19
(1,1057)	1:172:A:ASN:H	1:172:A:ASN:HB3	7	0.19
(1,1028)	1:138:A:PHE:H	1:130:A:VAL:HB	4	0.19
(1,1028)	1:138:A:PHE:H	1:130:A:VAL:HB	5	0.19
(1,1028)	1:138:A:PHE:H	1:130:A:VAL:HB	17	0.19
(1,1011)	1:47:A:THR:H	1:46:A:LYS:HD2	9	0.19
(1,993)	1:27:A:VAL:H	1:27:A:VAL:HG12	19	0.19
(1,981)	1:83:A:ALA:H	1:81:A:ASN:HB3	7	0.19
(1,943)	1:178:A:GLU:H	1:178:A:GLU:HG2	14	0.19
(1,925)	1:177:A:ASP:H	1:176:A:ARG:HG2	13	0.19
(1,914)	1:50:A:LYS:H	1:50:A:LYS:HG3	14	0.19
(1,898)	1:176:A:ARG:H	1:176:A:ARG:HD3	16	0.19
(1,853)	1:179:A:ASP:H	1:178:A:GLU:HA	12	0.19
(1,841)	1:110:A:PHE:H	1:109:A:ILE:HG21	2	0.19
(1,841)	1:110:A:PHE:H	1:109:A:ILE:HG23	5	0.19
(1,841)	1:110:A:PHE:H	1:109:A:ILE:HG22	14	0.19
(1,835)	1:12:A:ASP:H	1:174:A:LEU:HA	4	0.19
(1,835)	1:12:A:ASP:H	1:174:A:LEU:HA	20	0.19
(1,820)	1:86:A:LEU:H	1:85:A:ARG:H	13	0.19
(1,820)	1:86:A:LEU:H	1:85:A:ARG:H	20	0.19
(1,796)	1:11:A:GLU:H	1:11:A:GLU:HB2	13	0.19
(1,795)	1:11:A:GLU:H	1:10:A:GLN:HB3	1	0.19
(1,786)	1:87:A:LYS:H	1:87:A:LYS:HB2	9	0.19
(1,777)	1:92:A:VAL:H	1:100:A:PHE:HD1	2	0.19
(1,777)	1:92:A:VAL:H	1:100:A:PHE:HD1	7	0.19
(1,777)	1:92:A:VAL:H	1:100:A:PHE:HD1	9	0.19
(1,777)	1:92:A:VAL:H	1:100:A:PHE:HD1	10	0.19
(1,777)	1:92:A:VAL:H	1:100:A:PHE:HD1	11	0.19
(1,777)	1:92:A:VAL:H	1:100:A:PHE:HD1	14	0.19
(1,777)	1:92:A:VAL:H	1:100:A:PHE:HD1	20	0.19
(1,767)	1:14:A:ALA:H	1:14:A:ALA:HA	3	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,767)	1:14:A:ALA:H	1:14:A:ALA:HA	7	0.19
(1,767)	1:14:A:ALA:H	1:14:A:ALA:HA	10	0.19
(1,699)	1:137:A:LEU:H	1:137:A:LEU:HD11	11	0.19
(1,699)	1:137:A:LEU:H	1:137:A:LEU:HD13	17	0.19
(1,699)	1:137:A:LEU:H	1:137:A:LEU:HD11	18	0.19
(1,639)	1:52:A:ILE:H	1:110:A:PHE:HD2	5	0.19
(1,639)	1:52:A:ILE:H	1:110:A:PHE:HD2	9	0.19
(1,587)	1:185:A:GLU:H	1:185:A:GLU:HB2	12	0.19
(1,586)	1:185:A:GLU:H	1:184:A:SER:HB2	9	0.19
(1,586)	1:185:A:GLU:H	1:184:A:SER:HB2	17	0.19
(1,584)	1:185:A:GLU:H	1:184:A:SER:HA	5	0.19
(1,582)	1:167:A:ILE:H	1:127:A:VAL:HG12	8	0.19
(1,515)	1:37:A:LYS:HD2	1:34:A:TYR:HE2	10	0.19
(1,507)	1:153:A:HIS:HE1	1:132:A:HIS:HD2	6	0.19
(1,495)	1:10:A:GLN:HG3	1:10:A:GLN:HB3	20	0.19
(1,486)	1:21:A:LYS:HD2	1:30:A:LYS:HA	11	0.19
(1,477)	1:50:A:LYS:HD2	1:50:A:LYS:HE3	12	0.19
(1,440)	1:36:A:LYS:HE2	1:36:A:LYS:HD3	14	0.19
(1,440)	1:36:A:LYS:HE2	1:36:A:LYS:HD3	20	0.19
(1,437)	1:37:A:LYS:HB3	1:34:A:TYR:HE2	20	0.19
(1,436)	1:18:A:SER:HB2	1:19:A:LEU:HG	2	0.19
(1,418)	1:149:A:MET:HG3	1:149:A:MET:HE3	2	0.19
(1,418)	1:149:A:MET:HG3	1:149:A:MET:HE3	6	0.19
(1,408)	1:49:A:SER:HB2	1:49:A:SER:HA	10	0.19
(1,401)	1:30:A:LYS:HB2	1:30:A:LYS:HA	1	0.19
(1,401)	1:30:A:LYS:HB2	1:30:A:LYS:HA	3	0.19
(1,401)	1:30:A:LYS:HB2	1:30:A:LYS:HA	4	0.19
(1,401)	1:30:A:LYS:HB2	1:30:A:LYS:HA	5	0.19
(1,401)	1:30:A:LYS:HB2	1:30:A:LYS:HA	7	0.19
(1,401)	1:30:A:LYS:HB2	1:30:A:LYS:HA	10	0.19
(1,401)	1:30:A:LYS:HB2	1:30:A:LYS:HA	16	0.19
(1,379)	1:72:A:VAL:HA	1:71:A:LEU:HB3	8	0.19
(1,379)	1:72:A:VAL:HA	1:71:A:LEU:HB3	13	0.19
(1,376)	1:30:A:LYS:HB3	1:31:A:VAL:HA	19	0.19
(1,374)	1:33:A:SER:HB2	1:30:A:LYS:HE2	8	0.19
(1,347)	1:162:A:SER:HB3	1:166:A:ILE:HD11	3	0.19
(1,337)	1:184:A:SER:HA	1:185:A:GLU:HB3	20	0.19
(1,334)	1:65:A:ASP:HB2	1:65:A:ASP:HA	8	0.19
(1,310)	1:14:A:ALA:HA	1:21:A:LYS:HD3	15	0.19
(1,304)	1:25:A:GLY:HA2	1:27:A:VAL:HB	10	0.19
(1,304)	1:25:A:GLY:HA2	1:27:A:VAL:HB	15	0.19
(1,291)	1:54:A:ARG:HD2	1:54:A:ARG:HB2	15	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,291)	1:54:A:ARG:HD2	1:54:A:ARG:HB2	18	0.19
(1,289)	1:85:A:ARG:HG3	1:85:A:ARG:HD3	5	0.19
(1,289)	1:85:A:ARG:HG3	1:85:A:ARG:HD3	11	0.19
(1,289)	1:85:A:ARG:HG3	1:85:A:ARG:HD3	13	0.19
(1,289)	1:85:A:ARG:HG3	1:85:A:ARG:HD3	14	0.19
(1,285)	1:69:A:LYS:HE2	1:97:A:ILE:HB	13	0.19
(1,285)	1:69:A:LYS:HE2	1:97:A:ILE:HB	14	0.19
(1,279)	1:157:A:LYS:HG2	1:157:A:LYS:HE2	9	0.19
(1,262)	1:24:A:ILE:HG22	1:24:A:ILE:HB	4	0.19
(1,262)	1:24:A:ILE:HG23	1:24:A:ILE:HB	6	0.19
(1,262)	1:24:A:ILE:HG23	1:24:A:ILE:HB	10	0.19
(1,262)	1:24:A:ILE:HG23	1:24:A:ILE:HB	18	0.19
(1,262)	1:24:A:ILE:HG22	1:24:A:ILE:HB	20	0.19
(1,257)	1:103:A:GLU:HG2	1:106:A:GLN:HA	16	0.19
(1,246)	1:87:A:LYS:HB2	1:79:A:LEU:HD23	1	0.19
(1,246)	1:87:A:LYS:HB2	1:79:A:LEU:HD21	2	0.19
(1,222)	1:159:A:GLU:HB3	1:162:A:SER:HB2	5	0.19
(1,198)	1:56:A:LYS:HD2	1:121:A:SER:HB2	6	0.19
(1,197)	1:68:A:ARG:HG2	1:67:A:LYS:HE2	9	0.19
(1,134)	1:77:A:VAL:HG12	1:163:A:TRP:HZ2	20	0.19
(1,92)	1:17:A:LEU:H	1:16:A:SER:HB3	11	0.19
(1,87)	1:9:A:GLU:H	1:8:A:VAL:HG23	10	0.19
(1,87)	1:9:A:GLU:H	1:8:A:VAL:HG11	11	0.19
(1,72)	1:39:A:ARG:H	1:39:A:ARG:HB3	1	0.19
(1,57)	1:75:A:GLY:H	1:77:A:VAL:HG21	9	0.19
(1,57)	1:75:A:GLY:H	1:77:A:VAL:HG22	10	0.19
(1,44)	1:117:A:SER:H	1:116:A:LYS:HD3	19	0.19
(1,3)	1:185:A:GLU:H	1:185:A:GLU:HG3	1	0.19
(2,22)	1:162:A:SER:H	1:159:A:GLU:O	8	0.18
(2,22)	1:162:A:SER:H	1:159:A:GLU:O	17	0.18
(2,22)	1:162:A:SER:H	1:159:A:GLU:O	20	0.18
(2,21)	1:161:A:ASN:H	1:158:A:GLU:O	12	0.18
(1,3521)	1:133:A:GLU:HG2	1:132:A:HIS:HD2	18	0.18
(1,3516)	1:63:A:LYS:HE3	1:44:A:TYR:HE2	7	0.18
(1,3490)	1:51:A:SER:HB2	1:110:A:PHE:HD2	14	0.18
(1,3451)	1:66:A:LEU:HB3	1:44:A:TYR:HD2	1	0.18
(1,3423)	1:159:A:GLU:HB2	1:163:A:TRP:HD1	14	0.18
(1,3395)	1:134:A:GLU:HG3	1:157:A:LYS:HG3	1	0.18
(1,3391)	1:11:A:GLU:HB3	1:12:A:ASP:HB2	7	0.18
(1,3369)	1:174:A:LEU:HD23	1:95:A:THR:HG21	4	0.18
(1,3361)	1:157:A:LYS:HA	1:160:A:ARG:HB2	18	0.18
(1,3346)	1:69:A:LYS:HD2	1:97:A:ILE:HD12	6	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3336)	1:124:A:LYS:HA	1:124:A:LYS:HG2	2	0.18
(1,3332)	1:76:A:SER:HB3	1:88:A:GLU:HG2	4	0.18
(1,3326)	1:50:A:LYS:HD2	1:50:A:LYS:HB2	4	0.18
(1,3272)	1:98:A:LEU:H	1:97:A:ILE:HG22	15	0.18
(1,3264)	1:20:A:VAL:HG21	1:27:A:VAL:HA	4	0.18
(1,3244)	1:94:A:LEU:HD13	1:92:A:VAL:H	17	0.18
(1,3213)	1:174:A:LEU:HD23	1:174:A:LEU:HB2	1	0.18
(1,3190)	1:36:A:LYS:HD2	1:33:A:SER:HA	7	0.18
(1,3190)	1:36:A:LYS:HD2	1:33:A:SER:HA	13	0.18
(1,3190)	1:36:A:LYS:HD2	1:33:A:SER:HA	18	0.18
(1,3173)	1:101:A:LEU:HD22	1:110:A:PHE:HD1	1	0.18
(1,3173)	1:101:A:LEU:HD22	1:110:A:PHE:HD1	17	0.18
(1,3157)	1:22:A:ASP:HB2	1:22:A:ASP:HA	19	0.18
(1,3119)	1:63:A:LYS:HD3	1:63:A:LYS:HE2	5	0.18
(1,3119)	1:63:A:LYS:HD3	1:63:A:LYS:HE2	14	0.18
(1,3119)	1:63:A:LYS:HD3	1:63:A:LYS:HE2	17	0.18
(1,3113)	1:80:A:LYS:HE2	1:80:A:LYS:HB2	4	0.18
(1,3113)	1:80:A:LYS:HE2	1:80:A:LYS:HB2	6	0.18
(1,3106)	1:36:A:LYS:HD2	1:36:A:LYS:HE2	1	0.18
(1,3106)	1:36:A:LYS:HD2	1:36:A:LYS:HE2	7	0.18
(1,3106)	1:36:A:LYS:HD2	1:36:A:LYS:HE2	13	0.18
(1,3106)	1:36:A:LYS:HD2	1:36:A:LYS:HE2	14	0.18
(1,3106)	1:36:A:LYS:HD2	1:36:A:LYS:HE2	18	0.18
(1,3103)	1:73:A:ARG:HD2	1:166:A:ILE:HG23	8	0.18
(1,3056)	1:144:A:MET:HE1	1:145:A:THR:HG22	4	0.18
(1,3055)	1:144:A:MET:HG3	1:145:A:THR:HG21	10	0.18
(1,3055)	1:144:A:MET:HG3	1:145:A:THR:HG23	12	0.18
(1,3055)	1:144:A:MET:HG3	1:145:A:THR:HG21	17	0.18
(1,3032)	1:97:A:ILE:HG12	1:119:A:VAL:HG22	1	0.18
(1,3022)	1:140:A:ILE:HD11	1:138:A:PHE:HA	1	0.18
(1,3022)	1:140:A:ILE:HD11	1:138:A:PHE:HA	2	0.18
(1,3010)	1:144:A:MET:HB3	1:144:A:MET:HG3	15	0.18
(1,3006)	1:22:A:ASP:HA	1:15:A:GLN:HB2	13	0.18
(1,2994)	1:11:A:GLU:HG2	1:11:A:GLU:HA	9	0.18
(1,2994)	1:11:A:GLU:HG2	1:11:A:GLU:HA	12	0.18
(1,2994)	1:11:A:GLU:HG2	1:11:A:GLU:HA	16	0.18
(1,2988)	1:43:A:ILE:HD12	1:40:A:LEU:HA	19	0.18
(1,2955)	1:145:A:THR:HG22	1:146:A:ASP:HB3	9	0.18
(1,2950)	1:60:A:MET:HG2	1:60:A:MET:HE2	3	0.18
(1,2950)	1:60:A:MET:HG2	1:60:A:MET:HE3	5	0.18
(1,2950)	1:60:A:MET:HG2	1:60:A:MET:HE2	8	0.18
(1,2950)	1:60:A:MET:HG2	1:60:A:MET:HE3	13	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2950)	1:60:A:MET:HG2	1:60:A:MET:HE2	17	0.18
(1,2950)	1:60:A:MET:HG2	1:60:A:MET:HE2	19	0.18
(1,2948)	1:53:A:MET:HE1	1:110:A:PHE:HE1	7	0.18
(1,2924)	1:166:A:ILE:HD13	1:163:A:TRP:HA	12	0.18
(1,2916)	1:141:A:SER:HB3	1:120:A:ILE:HG22	9	0.18
(1,2900)	1:142:A:MET:HB2	1:126:A:ILE:HG12	17	0.18
(1,2886)	1:169:A:ASP:HA	1:172:A:ASN:HB2	4	0.18
(1,2844)	1:95:A:THR:HA	1:72:A:VAL:HG11	15	0.18
(1,2843)	1:31:A:VAL:HA	1:34:A:TYR:HE2	2	0.18
(1,2843)	1:31:A:VAL:HA	1:34:A:TYR:HE1	17	0.18
(1,2819)	1:121:A:SER:HA	1:121:A:SER:HB2	6	0.18
(1,2819)	1:121:A:SER:HA	1:121:A:SER:HB2	9	0.18
(1,2819)	1:121:A:SER:HA	1:121:A:SER:HB2	13	0.18
(1,2818)	1:76:A:SER:HB3	1:78:A:PHE:HE1	1	0.18
(1,2818)	1:76:A:SER:HB3	1:78:A:PHE:HE1	15	0.18
(1,2768)	1:159:A:GLU:HG2	1:159:A:GLU:HA	7	0.18
(1,2768)	1:159:A:GLU:HG2	1:159:A:GLU:HA	15	0.18
(1,2768)	1:159:A:GLU:HG2	1:159:A:GLU:HA	20	0.18
(1,2756)	1:63:A:LYS:HA	1:44:A:TYR:HE2	4	0.18
(1,2713)	1:66:A:LEU:HD21	1:66:A:LEU:HA	20	0.18
(1,2709)	1:4:A:LYS:HB3	1:4:A:LYS:HA	10	0.18
(1,2672)	1:106:A:GLN:HG3	1:105:A:ASP:HA	2	0.18
(1,2672)	1:106:A:GLN:HG3	1:105:A:ASP:HA	13	0.18
(1,2661)	1:101:A:LEU:HD12	1:108:A:TYR:HA	5	0.18
(1,2631)	1:80:A:LYS:HA	1:86:A:LEU:HD11	15	0.18
(1,2607)	1:153:A:HIS:HA	1:136:A:GLY:HA2	12	0.18
(1,2607)	1:153:A:HIS:HA	1:136:A:GLY:HA2	15	0.18
(1,2607)	1:153:A:HIS:HA	1:136:A:GLY:HA2	19	0.18
(1,2605)	1:133:A:GLU:HA	1:130:A:VAL:HG13	8	0.18
(1,2605)	1:133:A:GLU:HA	1:130:A:VAL:HG12	11	0.18
(1,2598)	1:32:A:ALA:HA	1:35:A:GLU:HA	14	0.18
(1,2596)	1:32:A:ALA:HA	1:35:A:GLU:HB3	6	0.18
(1,2596)	1:32:A:ALA:HA	1:35:A:GLU:HB3	8	0.18
(1,2596)	1:32:A:ALA:HA	1:35:A:GLU:HB3	13	0.18
(1,2542)	1:74:A:ASP:HB3	1:92:A:VAL:HG22	15	0.18
(1,2494)	1:126:A:ILE:HD11	1:128:A:ARG:HD3	10	0.18
(1,2470)	1:157:A:LYS:HE3	1:134:A:GLU:HG3	10	0.18
(1,2442)	1:146:A:ASP:HB3	1:147:A:PRO:HD3	9	0.18
(1,2379)	1:178:A:GLU:HG2	1:178:A:GLU:HB2	7	0.18
(1,2379)	1:178:A:GLU:HG2	1:178:A:GLU:HB2	8	0.18
(1,2368)	1:134:A:GLU:HG3	1:135:A:LYS:HG3	20	0.18
(1,2366)	1:42:A:GLU:HG3	1:38:A:VAL:HG12	12	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2356)	1:128:A:ARG:HB3	1:130:A:VAL:H	9	0.18
(1,2317)	1:67:A:LYS:HB3	1:44:A:TYR:HE2	2	0.18
(1,2317)	1:67:A:LYS:HB3	1:44:A:TYR:HE2	6	0.18
(1,2299)	1:102:A:GLN:HB3	1:89:A:VAL:HG12	11	0.18
(1,2261)	1:56:A:LYS:HG2	1:56:A:LYS:HB2	1	0.18
(1,2261)	1:56:A:LYS:HG2	1:56:A:LYS:HB2	8	0.18
(1,2261)	1:56:A:LYS:HG2	1:56:A:LYS:HB2	9	0.18
(1,2261)	1:56:A:LYS:HG2	1:56:A:LYS:HB2	14	0.18
(1,2261)	1:56:A:LYS:HG2	1:56:A:LYS:HB2	15	0.18
(1,2261)	1:56:A:LYS:HG2	1:56:A:LYS:HB2	16	0.18
(1,2241)	1:63:A:LYS:HD3	1:63:A:LYS:HA	17	0.18
(1,2199)	1:68:A:ARG:HG2	1:68:A:ARG:HB3	3	0.18
(1,2199)	1:68:A:ARG:HG2	1:68:A:ARG:HB3	8	0.18
(1,2199)	1:68:A:ARG:HG2	1:68:A:ARG:HB3	19	0.18
(1,2183)	1:80:A:LYS:HD3	1:153:A:HIS:HD2	8	0.18
(1,2182)	1:80:A:LYS:HD2	1:84:A:GLY:HA2	16	0.18
(1,2172)	1:46:A:LYS:HD3	1:46:A:LYS:HB2	19	0.18
(1,2155)	1:107:A:LYS:HD3	1:48:A:ASP:HA	19	0.18
(1,2141)	1:56:A:LYS:HD3	1:144:A:MET:HE1	18	0.18
(1,2135)	1:126:A:ILE:HG13	1:140:A:ILE:HD12	7	0.18
(1,2135)	1:126:A:ILE:HG13	1:140:A:ILE:HD11	17	0.18
(1,2119)	1:137:A:LEU:HD11	1:163:A:TRP:HB3	2	0.18
(1,2119)	1:137:A:LEU:HD11	1:163:A:TRP:HB3	19	0.18
(1,2099)	1:66:A:LEU:HG	1:97:A:ILE:HG13	14	0.18
(1,2099)	1:66:A:LEU:HG	1:97:A:ILE:HG13	16	0.18
(1,2089)	1:19:A:LEU:HG	1:11:A:GLU:HA	14	0.18
(1,1959)	1:66:A:LEU:HD11	1:66:A:LEU:HA	3	0.18
(1,1959)	1:66:A:LEU:HD12	1:66:A:LEU:HA	19	0.18
(1,1940)	1:50:A:LYS:HG3	1:50:A:LYS:HA	20	0.18
(1,1929)	1:94:A:LEU:HD23	1:69:A:LYS:HD2	16	0.18
(1,1929)	1:94:A:LEU:HD22	1:69:A:LYS:HD2	19	0.18
(1,1921)	1:67:A:LYS:HG2	1:44:A:TYR:HE2	17	0.18
(1,1918)	1:67:A:LYS:HG2	1:67:A:LYS:HD2	12	0.18
(1,1918)	1:67:A:LYS:HG2	1:67:A:LYS:HD2	14	0.18
(1,1918)	1:67:A:LYS:HG2	1:67:A:LYS:HD2	15	0.18
(1,1918)	1:67:A:LYS:HG2	1:67:A:LYS:HD2	17	0.18
(1,1918)	1:67:A:LYS:HG2	1:67:A:LYS:HD2	18	0.18
(1,1906)	1:86:A:LEU:HD11	1:78:A:PHE:HE2	8	0.18
(1,1888)	1:174:A:LEU:HD23	1:123:A:LYS:HG2	1	0.18
(1,1888)	1:174:A:LEU:HD21	1:123:A:LYS:HG2	14	0.18
(1,1870)	1:87:A:LYS:HG2	1:87:A:LYS:HE2	5	0.18
(1,1863)	1:95:A:THR:HG23	1:70:A:LYS:HG2	9	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1863)	1:95:A:THR:HG23	1:70:A:LYS:HG2	15	0.18
(1,1829)	1:3:A:THR:HG21	1:3:A:THR:HB	2	0.18
(1,1829)	1:3:A:THR:HG22	1:3:A:THR:HB	4	0.18
(1,1829)	1:3:A:THR:HG23	1:3:A:THR:HB	7	0.18
(1,1829)	1:3:A:THR:HG23	1:3:A:THR:HB	8	0.18
(1,1829)	1:3:A:THR:HG22	1:3:A:THR:HB	13	0.18
(1,1829)	1:3:A:THR:HG23	1:3:A:THR:HB	17	0.18
(1,1829)	1:3:A:THR:HG23	1:3:A:THR:HB	18	0.18
(1,1829)	1:3:A:THR:HG21	1:3:A:THR:HB	20	0.18
(1,1804)	1:127:A:VAL:HG12	1:127:A:VAL:HA	6	0.18
(1,1792)	1:122:A:LEU:HD13	1:122:A:LEU:HA	7	0.18
(1,1783)	1:101:A:LEU:HD22	1:66:A:LEU:HD22	8	0.18
(1,1780)	1:150:A:VAL:HG11	1:150:A:VAL:HG23	3	0.18
(1,1780)	1:150:A:VAL:HG13	1:150:A:VAL:HG23	20	0.18
(1,1752)	1:89:A:VAL:HG11	1:79:A:LEU:HD11	10	0.18
(1,1748)	1:72:A:VAL:HG21	1:95:A:THR:HA	16	0.18
(1,1741)	1:119:A:VAL:HG13	1:110:A:PHE:HD1	8	0.18
(1,1690)	1:111:A:ALA:HB3	1:102:A:GLN:HB3	18	0.18
(1,1687)	1:111:A:ALA:HB3	1:89:A:VAL:HG22	17	0.18
(1,1683)	1:83:A:ALA:HB3	1:83:A:ALA:HA	12	0.18
(1,1636)	1:126:A:ILE:HD12	1:140:A:ILE:HG12	14	0.18
(1,1636)	1:126:A:ILE:HD11	1:140:A:ILE:HG12	16	0.18
(1,1624)	1:43:A:ILE:HG22	1:43:A:ILE:HG13	2	0.18
(1,1624)	1:43:A:ILE:HG23	1:43:A:ILE:HG13	3	0.18
(1,1624)	1:43:A:ILE:HG21	1:43:A:ILE:HG13	4	0.18
(1,1624)	1:43:A:ILE:HG23	1:43:A:ILE:HG13	5	0.18
(1,1624)	1:43:A:ILE:HG22	1:43:A:ILE:HG13	7	0.18
(1,1624)	1:43:A:ILE:HG21	1:43:A:ILE:HG13	10	0.18
(1,1624)	1:43:A:ILE:HG21	1:43:A:ILE:HG13	12	0.18
(1,1624)	1:43:A:ILE:HG21	1:43:A:ILE:HG13	13	0.18
(1,1624)	1:43:A:ILE:HG22	1:43:A:ILE:HG13	17	0.18
(1,1624)	1:43:A:ILE:HG22	1:43:A:ILE:HG13	20	0.18
(1,1593)	1:55:A:MET:HE1	1:121:A:SER:HB3	14	0.18
(1,1582)	1:164:A:ILE:HG22	1:129:A:GLU:HG2	2	0.18
(1,1582)	1:164:A:ILE:HG23	1:129:A:GLU:HG2	5	0.18
(1,1579)	1:182:A:ILE:HD11	1:185:A:GLU:HA	16	0.18
(1,1551)	1:120:A:ILE:HD12	1:100:A:PHE:HZ	13	0.18
(1,1534)	1:140:A:ILE:HD12	1:140:A:ILE:HG13	9	0.18
(1,1527)	1:52:A:ILE:HD13	1:52:A:ILE:HG13	16	0.18
(1,1503)	1:23:A:VAL:H	1:27:A:VAL:HB	5	0.18
(1,1465)	1:5:A:ASP:H	1:5:A:ASP:HA	9	0.18
(1,1465)	1:5:A:ASP:H	1:5:A:ASP:HA	10	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1460)	1:85:A:ARG:H	1:83:A:ALA:HB3	1	0.18
(1,1460)	1:85:A:ARG:H	1:83:A:ALA:HB2	5	0.18
(1,1460)	1:85:A:ARG:H	1:83:A:ALA:HB1	6	0.18
(1,1460)	1:85:A:ARG:H	1:83:A:ALA:HB3	7	0.18
(1,1460)	1:85:A:ARG:H	1:83:A:ALA:HB3	20	0.18
(1,1423)	1:134:A:GLU:H	1:134:A:GLU:HG2	13	0.18
(1,1390)	1:184:A:SER:H	1:59:A:GLN:HG2	17	0.18
(1,1377)	1:175:A:ASN:HD22	1:171:A:ILE:HG23	7	0.18
(1,1376)	1:76:A:SER:H	1:90:A:GLN:HE22	5	0.18
(1,1376)	1:76:A:SER:H	1:90:A:GLN:HE22	7	0.18
(1,1366)	1:135:A:LYS:H	1:135:A:LYS:HB2	3	0.18
(1,1366)	1:135:A:LYS:H	1:135:A:LYS:HB2	11	0.18
(1,1366)	1:135:A:LYS:H	1:135:A:LYS:HB2	18	0.18
(1,1359)	1:69:A:LYS:H	1:40:A:LEU:HD13	9	0.18
(1,1353)	1:15:A:GLN:H	1:15:A:GLN:HB3	1	0.18
(1,1353)	1:15:A:GLN:H	1:15:A:GLN:HB3	5	0.18
(1,1191)	1:64:A:GLU:H	1:62:A:ALA:HB2	7	0.18
(1,1142)	1:165:A:GLN:H	1:164:A:ILE:HG21	12	0.18
(1,1132)	1:66:A:LEU:H	1:66:A:LEU:HB3	20	0.18
(1,1079)	1:123:A:LYS:H	1:123:A:LYS:HG3	15	0.18
(1,1074)	1:162:A:SER:H	1:161:A:ASN:HB3	8	0.18
(1,1071)	1:162:A:SER:H	1:165:A:GLN:HE21	10	0.18
(1,1071)	1:162:A:SER:H	1:165:A:GLN:HE21	17	0.18
(1,1057)	1:172:A:ASN:H	1:172:A:ASN:HB3	5	0.18
(1,1057)	1:172:A:ASN:H	1:172:A:ASN:HB3	9	0.18
(1,1039)	1:170:A:THR:H	1:171:A:ILE:HD13	11	0.18
(1,1028)	1:138:A:PHE:H	1:130:A:VAL:HB	13	0.18
(1,1001)	1:119:A:VAL:H	1:119:A:VAL:HG22	8	0.18
(1,993)	1:27:A:VAL:H	1:27:A:VAL:HG12	15	0.18
(1,993)	1:27:A:VAL:H	1:27:A:VAL:HG13	20	0.18
(1,981)	1:83:A:ALA:H	1:81:A:ASN:HB3	17	0.18
(1,940)	1:178:A:GLU:H	1:178:A:GLU:HA	3	0.18
(1,940)	1:178:A:GLU:H	1:178:A:GLU:HA	9	0.18
(1,918)	1:31:A:VAL:H	1:31:A:VAL:HB	5	0.18
(1,918)	1:31:A:VAL:H	1:31:A:VAL:HB	18	0.18
(1,914)	1:50:A:LYS:H	1:50:A:LYS:HG3	7	0.18
(1,898)	1:176:A:ARG:H	1:176:A:ARG:HD3	17	0.18
(1,898)	1:176:A:ARG:H	1:176:A:ARG:HD3	18	0.18
(1,852)	1:159:A:GLU:H	1:154:A:ALA:HB2	14	0.18
(1,852)	1:159:A:GLU:H	1:154:A:ALA:HB1	18	0.18
(1,851)	1:159:A:GLU:H	1:158:A:GLU:HB2	17	0.18
(1,841)	1:110:A:PHE:H	1:109:A:ILE:HG21	7	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,841)	1:110:A:PHE:H	1:109:A:ILE:HG22	17	0.18
(1,835)	1:12:A:ASP:H	1:174:A:LEU:HA	12	0.18
(1,835)	1:12:A:ASP:H	1:174:A:LEU:HA	16	0.18
(1,820)	1:86:A:LEU:H	1:85:A:ARG:H	17	0.18
(1,815)	1:125:A:LEU:H	1:125:A:LEU:HG	7	0.18
(1,786)	1:87:A:LYS:H	1:87:A:LYS:HB2	1	0.18
(1,786)	1:87:A:LYS:H	1:87:A:LYS:HB2	6	0.18
(1,786)	1:87:A:LYS:H	1:87:A:LYS:HB2	16	0.18
(1,784)	1:92:A:VAL:H	1:98:A:LEU:HD22	8	0.18
(1,777)	1:92:A:VAL:H	1:100:A:PHE:HD1	6	0.18
(1,767)	1:14:A:ALA:H	1:14:A:ALA:HA	1	0.18
(1,767)	1:14:A:ALA:H	1:14:A:ALA:HA	11	0.18
(1,709)	1:74:A:ASP:H	1:73:A:ARG:HB3	4	0.18
(1,699)	1:137:A:LEU:H	1:137:A:LEU:HD13	1	0.18
(1,592)	1:120:A:ILE:H	1:120:A:ILE:HG12	2	0.18
(1,592)	1:120:A:ILE:H	1:120:A:ILE:HG12	6	0.18
(1,586)	1:185:A:GLU:H	1:184:A:SER:HB2	10	0.18
(1,499)	1:21:A:LYS:HD2	1:33:A:SER:HB2	7	0.18
(1,476)	1:37:A:LYS:HG3	1:68:A:ARG:HA	16	0.18
(1,458)	1:15:A:GLN:HB3	1:4:A:LYS:HE2	9	0.18
(1,457)	1:92:A:VAL:H	1:98:A:LEU:HD23	14	0.18
(1,446)	1:22:A:ASP:HA	1:21:A:LYS:HG3	3	0.18
(1,440)	1:36:A:LYS:HE2	1:36:A:LYS:HD3	4	0.18
(1,440)	1:36:A:LYS:HE2	1:36:A:LYS:HD3	8	0.18
(1,440)	1:36:A:LYS:HE2	1:36:A:LYS:HD3	13	0.18
(1,437)	1:37:A:LYS:HB3	1:34:A:TYR:HE2	5	0.18
(1,418)	1:149:A:MET:HG3	1:149:A:MET:HE2	19	0.18
(1,408)	1:49:A:SER:HB2	1:49:A:SER:HA	9	0.18
(1,401)	1:30:A:LYS:HB2	1:30:A:LYS:HA	6	0.18
(1,401)	1:30:A:LYS:HB2	1:30:A:LYS:HA	8	0.18
(1,401)	1:30:A:LYS:HB2	1:30:A:LYS:HA	11	0.18
(1,401)	1:30:A:LYS:HB2	1:30:A:LYS:HA	13	0.18
(1,401)	1:30:A:LYS:HB2	1:30:A:LYS:HA	15	0.18
(1,385)	1:56:A:LYS:HB2	1:183:A:PRO:HA	7	0.18
(1,385)	1:56:A:LYS:HB2	1:183:A:PRO:HA	15	0.18
(1,357)	1:34:A:TYR:HA	1:30:A:LYS:HE3	7	0.18
(1,357)	1:34:A:TYR:HA	1:30:A:LYS:HE2	8	0.18
(1,357)	1:34:A:TYR:HA	1:30:A:LYS:HE2	9	0.18
(1,357)	1:34:A:TYR:HA	1:30:A:LYS:HE3	14	0.18
(1,353)	1:67:A:LYS:HE3	1:67:A:LYS:HA	6	0.18
(1,353)	1:67:A:LYS:HE3	1:67:A:LYS:HA	10	0.18
(1,347)	1:162:A:SER:HB3	1:166:A:ILE:HD12	8	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,339)	1:157:A:LYS:HA	1:134:A:GLU:HB2	12	0.18
(1,339)	1:157:A:LYS:HA	1:134:A:GLU:HB2	16	0.18
(1,262)	1:24:A:ILE:HG23	1:24:A:ILE:HB	1	0.18
(1,262)	1:24:A:ILE:HG21	1:24:A:ILE:HB	3	0.18
(1,262)	1:24:A:ILE:HG21	1:24:A:ILE:HB	7	0.18
(1,262)	1:24:A:ILE:HG22	1:24:A:ILE:HB	8	0.18
(1,262)	1:24:A:ILE:HG22	1:24:A:ILE:HB	13	0.18
(1,262)	1:24:A:ILE:HG23	1:24:A:ILE:HB	14	0.18
(1,262)	1:24:A:ILE:HG22	1:24:A:ILE:HB	15	0.18
(1,262)	1:24:A:ILE:HG21	1:24:A:ILE:HB	16	0.18
(1,246)	1:87:A:LYS:HB2	1:79:A:LEU:HD21	9	0.18
(1,246)	1:87:A:LYS:HB2	1:79:A:LEU:HD23	19	0.18
(1,232)	1:30:A:LYS:HB3	1:30:A:LYS:HD3	10	0.18
(1,232)	1:30:A:LYS:HB3	1:30:A:LYS:HD3	20	0.18
(1,222)	1:159:A:GLU:HB3	1:162:A:SER:HB2	16	0.18
(1,197)	1:68:A:ARG:HG2	1:67:A:LYS:HE2	6	0.18
(1,191)	1:176:A:ARG:HG2	1:176:A:ARG:HB2	2	0.18
(1,191)	1:176:A:ARG:HG2	1:176:A:ARG:HB2	18	0.18
(1,184)	1:52:A:ILE:HD12	1:52:A:ILE:HG13	2	0.18
(1,184)	1:52:A:ILE:HD11	1:52:A:ILE:HG13	4	0.18
(1,184)	1:52:A:ILE:HD11	1:52:A:ILE:HG13	6	0.18
(1,184)	1:52:A:ILE:HD11	1:52:A:ILE:HG13	8	0.18
(1,184)	1:52:A:ILE:HD13	1:52:A:ILE:HG13	10	0.18
(1,184)	1:52:A:ILE:HD12	1:52:A:ILE:HG13	17	0.18
(1,140)	1:70:A:LYS:HG3	1:70:A:LYS:HD2	13	0.18
(1,103)	1:140:A:ILE:HD12	1:149:A:MET:HE3	4	0.18
(1,72)	1:39:A:ARG:H	1:39:A:ARG:HB3	19	0.18
(1,57)	1:75:A:GLY:H	1:77:A:VAL:HG21	2	0.18
(1,57)	1:75:A:GLY:H	1:77:A:VAL:HG21	7	0.18
(1,57)	1:75:A:GLY:H	1:77:A:VAL:HG22	12	0.18
(1,57)	1:75:A:GLY:H	1:77:A:VAL:HG23	16	0.18
(1,33)	1:107:A:LYS:H	1:106:A:GLN:HG3	10	0.18
(1,24)	1:7:A:GLU:H	1:9:A:GLU:HG2	2	0.18
(1,24)	1:7:A:GLU:H	1:9:A:GLU:HG2	10	0.18
(1,23)	1:22:A:ASP:H	1:21:A:LYS:HG2	9	0.18
(1,23)	1:22:A:ASP:H	1:21:A:LYS:HG2	13	0.18
(1,20)	1:11:A:GLU:H	1:178:A:GLU:H	10	0.18
(1,18)	1:42:A:GLU:H	1:38:A:VAL:HG13	13	0.18
(1,3)	1:185:A:GLU:H	1:185:A:GLU:HG2	9	0.18
(2,24)	1:167:A:ILE:H	1:163:A:TRP:O	10	0.17
(2,24)	1:167:A:ILE:H	1:163:A:TRP:O	12	0.17
(2,24)	1:167:A:ILE:H	1:163:A:TRP:O	14	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,24)	1:167:A:ILE:H	1:163:A:TRP:O	17	0.17
(2,20)	1:154:A:ALA:H	1:135:A:LYS:O	8	0.17
(1,3516)	1:63:A:LYS:HE3	1:44:A:TYR:HE1	14	0.17
(1,3490)	1:51:A:SER:HB2	1:110:A:PHE:HD2	16	0.17
(1,3455)	1:133:A:GLU:HG2	1:153:A:HIS:HE1	8	0.17
(1,3453)	1:67:A:LYS:HB3	1:44:A:TYR:HD2	8	0.17
(1,3423)	1:159:A:GLU:HB2	1:163:A:TRP:HD1	9	0.17
(1,3423)	1:159:A:GLU:HB2	1:163:A:TRP:HD1	12	0.17
(1,3391)	1:11:A:GLU:HB3	1:12:A:ASP:HB2	5	0.17
(1,3391)	1:11:A:GLU:HB3	1:12:A:ASP:HB2	12	0.17
(1,3376)	1:53:A:MET:HG2	1:119:A:VAL:HB	15	0.17
(1,3372)	1:59:A:GLN:HG3	1:59:A:GLN:HB3	6	0.17
(1,3326)	1:50:A:LYS:HD2	1:50:A:LYS:HB2	2	0.17
(1,3301)	1:154:A:ALA:HB2	1:163:A:TRP:HD1	17	0.17
(1,3259)	1:38:A:VAL:HB	1:38:A:VAL:HG21	2	0.17
(1,3259)	1:38:A:VAL:HB	1:38:A:VAL:HG21	5	0.17
(1,3259)	1:38:A:VAL:HB	1:38:A:VAL:HG23	8	0.17
(1,3259)	1:38:A:VAL:HB	1:38:A:VAL:HG21	18	0.17
(1,3238)	1:91:A:ALA:HA	1:98:A:LEU:HD22	8	0.17
(1,3226)	1:89:A:VAL:HG13	1:102:A:GLN:H	17	0.17
(1,3190)	1:36:A:LYS:HD2	1:33:A:SER:HA	6	0.17
(1,3174)	1:101:A:LEU:HD22	1:108:A:TYR:HD2	10	0.17
(1,3174)	1:101:A:LEU:HD23	1:108:A:TYR:HD2	14	0.17
(1,3159)	1:149:A:MET:HB3	1:140:A:ILE:HD12	8	0.17
(1,3157)	1:22:A:ASP:HB2	1:22:A:ASP:HA	6	0.17
(1,3118)	1:63:A:LYS:HG2	1:63:A:LYS:HE3	14	0.17
(1,3106)	1:36:A:LYS:HD2	1:36:A:LYS:HE2	4	0.17
(1,3106)	1:36:A:LYS:HD2	1:36:A:LYS:HE2	8	0.17
(1,3106)	1:36:A:LYS:HD2	1:36:A:LYS:HE2	20	0.17
(1,3105)	1:39:A:ARG:HD3	1:39:A:ARG:HA	13	0.17
(1,3105)	1:39:A:ARG:HD3	1:39:A:ARG:HA	19	0.17
(1,3055)	1:144:A:MET:HG3	1:145:A:THR:HG21	13	0.17
(1,3022)	1:140:A:ILE:HD13	1:138:A:PHE:HA	14	0.17
(1,3022)	1:140:A:ILE:HD11	1:138:A:PHE:HA	20	0.17
(1,3007)	1:114:A:ASP:HB3	1:114:A:ASP:HA	2	0.17
(1,3007)	1:114:A:ASP:HB3	1:114:A:ASP:HA	6	0.17
(1,3007)	1:114:A:ASP:HB3	1:114:A:ASP:HA	11	0.17
(1,3007)	1:114:A:ASP:HB3	1:114:A:ASP:HA	16	0.17
(1,3007)	1:114:A:ASP:HB3	1:114:A:ASP:HA	19	0.17
(1,2950)	1:60:A:MET:HG2	1:60:A:MET:HE1	1	0.17
(1,2950)	1:60:A:MET:HG2	1:60:A:MET:HE3	7	0.17
(1,2950)	1:60:A:MET:HG2	1:60:A:MET:HE3	16	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2943)	1:53:A:MET:HE3	1:53:A:MET:HG3	1	0.17
(1,2943)	1:53:A:MET:HE3	1:53:A:MET:HG3	18	0.17
(1,2918)	1:141:A:SER:HB2	1:140:A:ILE:HG21	3	0.17
(1,2911)	1:45:A:THR:HB	1:44:A:TYR:HE1	16	0.17
(1,2904)	1:140:A:ILE:HD11	1:128:A:ARG:HB3	3	0.17
(1,2904)	1:140:A:ILE:HD11	1:128:A:ARG:HB3	16	0.17
(1,2897)	1:176:A:ARG:HB2	1:176:A:ARG:HA	8	0.17
(1,2897)	1:176:A:ARG:HB2	1:176:A:ARG:HA	14	0.17
(1,2896)	1:176:A:ARG:HB3	1:176:A:ARG:HA	11	0.17
(1,2894)	1:68:A:ARG:HB3	1:7:A:GLU:HA	16	0.17
(1,2868)	1:167:A:ILE:HA	1:170:A:THR:HG21	16	0.17
(1,2864)	1:118:A:THR:HB	1:113:A:LEU:HB2	1	0.17
(1,2855)	1:43:A:ILE:HA	1:108:A:TYR:HE2	2	0.17
(1,2843)	1:31:A:VAL:HA	1:34:A:TYR:HE2	14	0.17
(1,2818)	1:76:A:SER:HB3	1:78:A:PHE:HE1	4	0.17
(1,2812)	1:56:A:LYS:HA	1:56:A:LYS:HE2	7	0.17
(1,2809)	1:110:A:PHE:HA	1:52:A:ILE:HA	6	0.17
(1,2789)	1:158:A:GLU:HG2	1:158:A:GLU:HA	1	0.17
(1,2789)	1:158:A:GLU:HG2	1:158:A:GLU:HA	2	0.17
(1,2789)	1:158:A:GLU:HG2	1:158:A:GLU:HA	6	0.17
(1,2789)	1:158:A:GLU:HG2	1:158:A:GLU:HA	13	0.17
(1,2756)	1:63:A:LYS:HA	1:44:A:TYR:HE2	8	0.17
(1,2756)	1:63:A:LYS:HA	1:44:A:TYR:HE2	15	0.17
(1,2710)	1:178:A:GLU:HA	1:177:A:ASP:HB2	6	0.17
(1,2708)	1:15:A:GLN:HB3	1:15:A:GLN:HA	2	0.17
(1,2705)	1:135:A:LYS:HA	1:154:A:ALA:HB3	15	0.17
(1,2672)	1:106:A:GLN:HG3	1:105:A:ASP:HA	4	0.17
(1,2607)	1:153:A:HIS:HA	1:136:A:GLY:HA2	5	0.17
(1,2607)	1:153:A:HIS:HA	1:136:A:GLY:HA2	8	0.17
(1,2605)	1:133:A:GLU:HA	1:130:A:VAL:HG11	5	0.17
(1,2605)	1:133:A:GLU:HA	1:130:A:VAL:HG11	19	0.17
(1,2596)	1:32:A:ALA:HA	1:35:A:GLU:HB3	5	0.17
(1,2494)	1:126:A:ILE:HD11	1:128:A:ARG:HD3	6	0.17
(1,2476)	1:80:A:LYS:HE3	1:86:A:LEU:HD11	20	0.17
(1,2442)	1:146:A:ASP:HB3	1:147:A:PRO:HD3	8	0.17
(1,2436)	1:46:A:LYS:HE2	1:43:A:ILE:HA	19	0.17
(1,2432)	1:63:A:LYS:HE3	1:49:A:SER:HA	4	0.17
(1,2383)	1:35:A:GLU:HG3	1:38:A:VAL:HG13	2	0.17
(1,2379)	1:178:A:GLU:HG2	1:178:A:GLU:HB2	13	0.17
(1,2379)	1:178:A:GLU:HG2	1:178:A:GLU:HB2	20	0.17
(1,2374)	1:42:A:GLU:HG3	1:42:A:GLU:HA	1	0.17
(1,2356)	1:128:A:ARG:HB3	1:130:A:VAL:H	4	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2356)	1:128:A:ARG:HB3	1:130:A:VAL:H	16	0.17
(1,2353)	1:133:A:GLU:HG3	1:130:A:VAL:HG11	1	0.17
(1,2353)	1:133:A:GLU:HG3	1:130:A:VAL:HG13	5	0.17
(1,2312)	1:168:A:GLN:HG3	1:164:A:ILE:HG21	13	0.17
(1,2299)	1:102:A:GLN:HB3	1:89:A:VAL:HG12	4	0.17
(1,2261)	1:56:A:LYS:HG2	1:56:A:LYS:HB2	3	0.17
(1,2261)	1:56:A:LYS:HG2	1:56:A:LYS:HB2	4	0.17
(1,2261)	1:56:A:LYS:HG2	1:56:A:LYS:HB2	18	0.17
(1,2261)	1:56:A:LYS:HG2	1:56:A:LYS:HB2	20	0.17
(1,2250)	1:119:A:VAL:HG22	1:53:A:MET:HG3	7	0.17
(1,2250)	1:119:A:VAL:HG22	1:53:A:MET:HG3	16	0.17
(1,2241)	1:63:A:LYS:HD3	1:63:A:LYS:HA	5	0.17
(1,2241)	1:63:A:LYS:HD3	1:63:A:LYS:HA	13	0.17
(1,2241)	1:63:A:LYS:HD3	1:63:A:LYS:HA	15	0.17
(1,2209)	1:42:A:GLU:HB2	1:43:A:ILE:HD12	8	0.17
(1,2199)	1:68:A:ARG:HG2	1:68:A:ARG:HB3	5	0.17
(1,2199)	1:68:A:ARG:HG2	1:68:A:ARG:HB3	10	0.17
(1,2199)	1:68:A:ARG:HG2	1:68:A:ARG:HB3	11	0.17
(1,2199)	1:68:A:ARG:HG2	1:68:A:ARG:HB3	12	0.17
(1,2199)	1:68:A:ARG:HG2	1:68:A:ARG:HB3	13	0.17
(1,2199)	1:68:A:ARG:HG2	1:68:A:ARG:HB3	16	0.17
(1,2197)	1:68:A:ARG:HB3	1:68:A:ARG:HD3	1	0.17
(1,2192)	1:15:A:GLN:HB2	1:18:A:SER:HA	15	0.17
(1,2190)	1:123:A:LYS:HD3	1:180:A:GLU:HA	1	0.17
(1,2190)	1:123:A:LYS:HD3	1:180:A:GLU:HA	14	0.17
(1,2182)	1:80:A:LYS:HD2	1:84:A:GLY:HA2	13	0.17
(1,2157)	1:135:A:LYS:HD3	1:135:A:LYS:HB3	16	0.17
(1,2157)	1:135:A:LYS:HD3	1:135:A:LYS:HB3	17	0.17
(1,2119)	1:137:A:LEU:HD11	1:163:A:TRP:HB3	20	0.17
(1,2084)	1:52:A:ILE:HG13	1:52:A:ILE:HB	1	0.17
(1,2084)	1:52:A:ILE:HG13	1:52:A:ILE:HB	2	0.17
(1,2084)	1:52:A:ILE:HG13	1:52:A:ILE:HB	4	0.17
(1,2084)	1:52:A:ILE:HG13	1:52:A:ILE:HB	5	0.17
(1,2084)	1:52:A:ILE:HG13	1:52:A:ILE:HB	6	0.17
(1,2084)	1:52:A:ILE:HG13	1:52:A:ILE:HB	7	0.17
(1,2084)	1:52:A:ILE:HG13	1:52:A:ILE:HB	9	0.17
(1,2084)	1:52:A:ILE:HG13	1:52:A:ILE:HB	10	0.17
(1,2084)	1:52:A:ILE:HG13	1:52:A:ILE:HB	11	0.17
(1,2084)	1:52:A:ILE:HG13	1:52:A:ILE:HB	13	0.17
(1,2084)	1:52:A:ILE:HG13	1:52:A:ILE:HB	14	0.17
(1,2084)	1:52:A:ILE:HG13	1:52:A:ILE:HB	15	0.17
(1,2084)	1:52:A:ILE:HG13	1:52:A:ILE:HB	16	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2084)	1:52:A:ILE:HG13	1:52:A:ILE:HB	17	0.17
(1,2084)	1:52:A:ILE:HG13	1:52:A:ILE:HB	18	0.17
(1,2084)	1:52:A:ILE:HG13	1:52:A:ILE:HB	19	0.17
(1,2084)	1:52:A:ILE:HG13	1:52:A:ILE:HB	20	0.17
(1,2082)	1:182:A:ILE:HG13	1:182:A:ILE:HA	7	0.17
(1,2082)	1:182:A:ILE:HG13	1:182:A:ILE:HA	8	0.17
(1,2082)	1:182:A:ILE:HG13	1:182:A:ILE:HA	19	0.17
(1,2076)	1:71:A:LEU:HG	1:39:A:ARG:HD3	1	0.17
(1,2051)	1:113:A:LEU:HD12	1:113:A:LEU:HD21	1	0.17
(1,2051)	1:113:A:LEU:HD11	1:113:A:LEU:HD22	2	0.17
(1,2051)	1:113:A:LEU:HD13	1:113:A:LEU:HD23	4	0.17
(1,2051)	1:113:A:LEU:HD11	1:113:A:LEU:HD22	11	0.17
(1,2012)	1:63:A:LYS:HG3	1:44:A:TYR:HE2	6	0.17
(1,1993)	1:174:A:LEU:HD13	1:174:A:LEU:HB3	7	0.17
(1,1989)	1:174:A:LEU:HD11	1:123:A:LYS:HG3	20	0.17
(1,1959)	1:66:A:LEU:HD12	1:66:A:LEU:HA	6	0.17
(1,1957)	1:66:A:LEU:HD13	1:66:A:LEU:HB3	7	0.17
(1,1942)	1:37:A:LYS:HG3	1:37:A:LYS:HA	1	0.17
(1,1942)	1:37:A:LYS:HG3	1:37:A:LYS:HA	3	0.17
(1,1942)	1:37:A:LYS:HG3	1:37:A:LYS:HA	5	0.17
(1,1942)	1:37:A:LYS:HG3	1:37:A:LYS:HA	9	0.17
(1,1942)	1:37:A:LYS:HG3	1:37:A:LYS:HA	20	0.17
(1,1938)	1:50:A:LYS:HG3	1:50:A:LYS:HB2	2	0.17
(1,1938)	1:50:A:LYS:HG3	1:50:A:LYS:HB2	4	0.17
(1,1938)	1:50:A:LYS:HG3	1:50:A:LYS:HB2	10	0.17
(1,1938)	1:50:A:LYS:HG3	1:50:A:LYS:HB2	12	0.17
(1,1935)	1:56:A:LYS:HG2	1:121:A:SER:HB2	2	0.17
(1,1923)	1:67:A:LYS:HG2	1:44:A:TYR:HD1	7	0.17
(1,1921)	1:67:A:LYS:HG2	1:44:A:TYR:HE2	4	0.17
(1,1918)	1:67:A:LYS:HG2	1:67:A:LYS:HD2	1	0.17
(1,1918)	1:67:A:LYS:HG2	1:67:A:LYS:HD2	5	0.17
(1,1918)	1:67:A:LYS:HG2	1:67:A:LYS:HD2	7	0.17
(1,1918)	1:67:A:LYS:HG2	1:67:A:LYS:HD2	11	0.17
(1,1918)	1:67:A:LYS:HG2	1:67:A:LYS:HD2	19	0.17
(1,1918)	1:67:A:LYS:HG2	1:67:A:LYS:HD2	20	0.17
(1,1906)	1:86:A:LEU:HD12	1:78:A:PHE:HE2	18	0.17
(1,1875)	1:66:A:LEU:HD23	1:66:A:LEU:HB2	1	0.17
(1,1870)	1:87:A:LYS:HG2	1:87:A:LYS:HE2	7	0.17
(1,1870)	1:87:A:LYS:HG2	1:87:A:LYS:HE2	13	0.17
(1,1846)	1:170:A:THR:HG21	1:72:A:VAL:HG11	15	0.17
(1,1829)	1:3:A:THR:HG22	1:3:A:THR:HB	12	0.17
(1,1804)	1:127:A:VAL:HG13	1:127:A:VAL:HA	20	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1787)	1:101:A:LEU:HD23	1:66:A:LEU:HD12	18	0.17
(1,1780)	1:150:A:VAL:HG13	1:150:A:VAL:HG21	7	0.17
(1,1780)	1:150:A:VAL:HG12	1:150:A:VAL:HG22	14	0.17
(1,1780)	1:150:A:VAL:HG13	1:150:A:VAL:HG21	15	0.17
(1,1780)	1:150:A:VAL:HG12	1:150:A:VAL:HG23	19	0.17
(1,1769)	1:86:A:LEU:HD21	1:78:A:PHE:HB2	3	0.17
(1,1763)	1:99:A:VAL:HG13	1:101:A:LEU:HG	2	0.17
(1,1747)	1:72:A:VAL:HG23	1:95:A:THR:HG23	3	0.17
(1,1690)	1:111:A:ALA:HB1	1:102:A:GLN:HB3	2	0.17
(1,1690)	1:111:A:ALA:HB2	1:102:A:GLN:HB3	16	0.17
(1,1666)	1:97:A:ILE:HG22	1:119:A:VAL:HG22	3	0.17
(1,1654)	1:140:A:ILE:HG23	1:126:A:ILE:HG13	19	0.17
(1,1649)	1:167:A:ILE:HG21	1:127:A:VAL:HB	17	0.17
(1,1624)	1:43:A:ILE:HG21	1:43:A:ILE:HG13	1	0.17
(1,1624)	1:43:A:ILE:HG22	1:43:A:ILE:HG13	6	0.17
(1,1624)	1:43:A:ILE:HG21	1:43:A:ILE:HG13	9	0.17
(1,1624)	1:43:A:ILE:HG21	1:43:A:ILE:HG13	14	0.17
(1,1611)	1:182:A:ILE:HG21	1:182:A:ILE:HB	12	0.17
(1,1611)	1:182:A:ILE:HG21	1:182:A:ILE:HB	16	0.17
(1,1610)	1:60:A:MET:HE3	1:60:A:MET:HG3	10	0.17
(1,1604)	1:149:A:MET:HE1	1:138:A:PHE:HA	16	0.17
(1,1603)	1:149:A:MET:HE2	1:149:A:MET:HA	11	0.17
(1,1592)	1:55:A:MET:HE2	1:121:A:SER:HB2	6	0.17
(1,1590)	1:55:A:MET:HE3	1:55:A:MET:HG3	5	0.17
(1,1583)	1:164:A:ILE:HG21	1:129:A:GLU:HG3	4	0.17
(1,1583)	1:164:A:ILE:HG22	1:129:A:GLU:HG3	18	0.17
(1,1574)	1:164:A:ILE:HD12	1:129:A:GLU:HG3	9	0.17
(1,1551)	1:120:A:ILE:HD11	1:100:A:PHE:HZ	8	0.17
(1,1522)	1:166:A:ILE:HD11	1:73:A:ARG:HB2	1	0.17
(1,1522)	1:166:A:ILE:HD13	1:73:A:ARG:HB2	2	0.17
(1,1522)	1:166:A:ILE:HD13	1:73:A:ARG:HB2	5	0.17
(1,1503)	1:23:A:VAL:H	1:27:A:VAL:HB	19	0.17
(1,1465)	1:5:A:ASP:H	1:5:A:ASP:HA	3	0.17
(1,1463)	1:85:A:ARG:H	1:85:A:ARG:HG3	8	0.17
(1,1460)	1:85:A:ARG:H	1:83:A:ALA:HB2	2	0.17
(1,1460)	1:85:A:ARG:H	1:83:A:ALA:HB1	10	0.17
(1,1460)	1:85:A:ARG:H	1:83:A:ALA:HB3	14	0.17
(1,1460)	1:85:A:ARG:H	1:83:A:ALA:HB2	16	0.17
(1,1460)	1:85:A:ARG:H	1:83:A:ALA:HB1	18	0.17
(1,1457)	1:107:A:LYS:H	1:104:A:LYS:HB2	14	0.17
(1,1410)	1:172:A:ASN:HD22	1:168:A:GLN:HG3	4	0.17
(1,1400)	1:69:A:LYS:H	1:68:A:ARG:HB3	18	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1390)	1:184:A:SER:H	1:59:A:GLN:HG2	3	0.17
(1,1390)	1:184:A:SER:H	1:59:A:GLN:HG2	18	0.17
(1,1388)	1:165:A:GLN:HE22	1:166:A:ILE:HG12	2	0.17
(1,1388)	1:165:A:GLN:HE22	1:166:A:ILE:HG12	12	0.17
(1,1388)	1:165:A:GLN:HE22	1:166:A:ILE:HG12	17	0.17
(1,1366)	1:135:A:LYS:H	1:135:A:LYS:HB2	16	0.17
(1,1353)	1:15:A:GLN:H	1:15:A:GLN:HB3	10	0.17
(1,1353)	1:15:A:GLN:H	1:15:A:GLN:HB3	13	0.17
(1,1311)	1:63:A:LYS:H	1:63:A:LYS:HD2	11	0.17
(1,1284)	1:44:A:TYR:H	1:44:A:TYR:HD1	1	0.17
(1,1265)	1:95:A:THR:H	1:94:A:LEU:HB2	15	0.17
(1,1229)	1:156:A:SER:H	1:154:A:ALA:HB3	19	0.17
(1,1216)	1:118:A:THR:H	1:117:A:SER:HB2	7	0.17
(1,1142)	1:165:A:GLN:H	1:164:A:ILE:HG21	13	0.17
(1,1142)	1:165:A:GLN:H	1:164:A:ILE:HG22	15	0.17
(1,1142)	1:165:A:GLN:H	1:164:A:ILE:HG21	18	0.17
(1,1116)	1:65:A:ASP:H	1:65:A:ASP:HB3	3	0.17
(1,1110)	1:73:A:ARG:H	1:73:A:ARG:HB2	9	0.17
(1,1079)	1:123:A:LYS:H	1:123:A:LYS:HG3	10	0.17
(1,1079)	1:123:A:LYS:H	1:123:A:LYS:HG3	11	0.17
(1,1079)	1:123:A:LYS:H	1:123:A:LYS:HG3	14	0.17
(1,1077)	1:123:A:LYS:H	1:123:A:LYS:HB2	9	0.17
(1,1077)	1:123:A:LYS:H	1:123:A:LYS:HB2	12	0.17
(1,1077)	1:123:A:LYS:H	1:123:A:LYS:HB2	19	0.17
(1,1074)	1:162:A:SER:H	1:161:A:ASN:HB3	18	0.17
(1,1071)	1:162:A:SER:H	1:165:A:GLN:HE21	3	0.17
(1,1071)	1:162:A:SER:H	1:165:A:GLN:HE21	4	0.17
(1,1071)	1:162:A:SER:H	1:165:A:GLN:HE21	20	0.17
(1,1039)	1:170:A:THR:H	1:171:A:ILE:HD13	15	0.17
(1,1028)	1:138:A:PHE:H	1:130:A:VAL:HB	10	0.17
(1,1011)	1:47:A:THR:H	1:46:A:LYS:HD2	1	0.17
(1,1011)	1:47:A:THR:H	1:46:A:LYS:HD2	3	0.17
(1,993)	1:27:A:VAL:H	1:27:A:VAL:HG13	2	0.17
(1,993)	1:27:A:VAL:H	1:27:A:VAL:HG13	12	0.17
(1,940)	1:178:A:GLU:H	1:178:A:GLU:HA	15	0.17
(1,940)	1:178:A:GLU:H	1:178:A:GLU:HA	16	0.17
(1,940)	1:178:A:GLU:H	1:178:A:GLU:HA	17	0.17
(1,931)	1:121:A:SER:H	1:120:A:ILE:HG21	1	0.17
(1,924)	1:177:A:ASP:H	1:177:A:ASP:HB3	12	0.17
(1,918)	1:31:A:VAL:H	1:31:A:VAL:HB	1	0.17
(1,918)	1:31:A:VAL:H	1:31:A:VAL:HB	3	0.17
(1,918)	1:31:A:VAL:H	1:31:A:VAL:HB	4	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,918)	1:31:A:VAL:H	1:31:A:VAL:HB	6	0.17
(1,918)	1:31:A:VAL:H	1:31:A:VAL:HB	12	0.17
(1,918)	1:31:A:VAL:H	1:31:A:VAL:HB	15	0.17
(1,918)	1:31:A:VAL:H	1:31:A:VAL:HB	19	0.17
(1,914)	1:50:A:LYS:H	1:50:A:LYS:HG3	8	0.17
(1,914)	1:50:A:LYS:H	1:50:A:LYS:HG3	18	0.17
(1,905)	1:97:A:ILE:H	1:94:A:LEU:HD23	15	0.17
(1,905)	1:97:A:ILE:H	1:94:A:LEU:HD21	17	0.17
(1,897)	1:176:A:ARG:H	1:176:A:ARG:HG3	11	0.17
(1,870)	1:38:A:VAL:H	1:38:A:VAL:HG13	8	0.17
(1,855)	1:179:A:ASP:H	1:178:A:GLU:HB2	6	0.17
(1,854)	1:179:A:ASP:H	1:178:A:GLU:HB3	4	0.17
(1,841)	1:110:A:PHE:H	1:109:A:ILE:HG22	10	0.17
(1,835)	1:12:A:ASP:H	1:174:A:LEU:HA	18	0.17
(1,828)	1:86:A:LEU:H	1:86:A:LEU:HD13	16	0.17
(1,828)	1:86:A:LEU:H	1:86:A:LEU:HD11	17	0.17
(1,820)	1:86:A:LEU:H	1:85:A:ARG:H	1	0.17
(1,820)	1:86:A:LEU:H	1:85:A:ARG:H	2	0.17
(1,820)	1:86:A:LEU:H	1:85:A:ARG:H	4	0.17
(1,820)	1:86:A:LEU:H	1:85:A:ARG:H	6	0.17
(1,820)	1:86:A:LEU:H	1:85:A:ARG:H	19	0.17
(1,815)	1:125:A:LEU:H	1:125:A:LEU:HG	17	0.17
(1,792)	1:87:A:LYS:H	1:78:A:PHE:HD1	17	0.17
(1,786)	1:87:A:LYS:H	1:87:A:LYS:HB2	2	0.17
(1,786)	1:87:A:LYS:H	1:87:A:LYS:HB2	20	0.17
(1,784)	1:92:A:VAL:H	1:98:A:LEU:HD23	2	0.17
(1,782)	1:92:A:VAL:H	1:99:A:VAL:HB	7	0.17
(1,711)	1:74:A:ASP:H	1:73:A:ARG:HG2	15	0.17
(1,699)	1:137:A:LEU:H	1:137:A:LEU:HD12	10	0.17
(1,697)	1:137:A:LEU:H	1:137:A:LEU:HG	20	0.17
(1,693)	1:28:A:ASP:H	1:27:A:VAL:HB	1	0.17
(1,693)	1:28:A:ASP:H	1:27:A:VAL:HB	3	0.17
(1,693)	1:28:A:ASP:H	1:27:A:VAL:HB	4	0.17
(1,665)	1:24:A:ILE:H	1:24:A:ILE:HG12	7	0.17
(1,601)	1:55:A:MET:H	1:55:A:MET:HB2	11	0.17
(1,592)	1:120:A:ILE:H	1:120:A:ILE:HG12	16	0.17
(1,592)	1:120:A:ILE:H	1:120:A:ILE:HG12	17	0.17
(1,586)	1:185:A:GLU:H	1:184:A:SER:HB2	11	0.17
(1,584)	1:185:A:GLU:H	1:184:A:SER:HA	2	0.17
(1,584)	1:185:A:GLU:H	1:184:A:SER:HA	20	0.17
(1,582)	1:167:A:ILE:H	1:127:A:VAL:HG13	14	0.17
(1,564)	1:104:A:LYS:H	1:103:A:GLU:HG3	7	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,515)	1:37:A:LYS:HD2	1:34:A:TYR:HE2	17	0.17
(1,457)	1:92:A:VAL:H	1:98:A:LEU:HD22	11	0.17
(1,440)	1:36:A:LYS:HE2	1:36:A:LYS:HD3	18	0.17
(1,439)	1:10:A:GLN:HB3	1:174:A:LEU:HD11	15	0.17
(1,417)	1:156:A:SER:HB2	1:135:A:LYS:HE3	4	0.17
(1,415)	1:18:A:SER:HA	1:18:A:SER:HB3	20	0.17
(1,402)	1:176:A:ARG:HB2	1:176:A:ARG:HA	3	0.17
(1,402)	1:176:A:ARG:HB2	1:176:A:ARG:HA	10	0.17
(1,401)	1:30:A:LYS:HB2	1:30:A:LYS:HA	9	0.17
(1,401)	1:30:A:LYS:HB2	1:30:A:LYS:HA	12	0.17
(1,401)	1:30:A:LYS:HB2	1:30:A:LYS:HA	17	0.17
(1,385)	1:56:A:LYS:HB2	1:183:A:PRO:HA	5	0.17
(1,379)	1:72:A:VAL:HA	1:71:A:LEU:HB3	17	0.17
(1,376)	1:30:A:LYS:HB3	1:31:A:VAL:HA	5	0.17
(1,376)	1:30:A:LYS:HB3	1:31:A:VAL:HA	6	0.17
(1,367)	1:121:A:SER:HB2	1:185:A:GLU:HA	16	0.17
(1,355)	1:89:A:VAL:HA	1:103:A:GLU:HB2	7	0.17
(1,348)	1:162:A:SER:HB2	1:161:A:ASN:HB3	14	0.17
(1,347)	1:162:A:SER:HB3	1:166:A:ILE:HD11	15	0.17
(1,339)	1:157:A:LYS:HA	1:134:A:GLU:HB3	1	0.17
(1,339)	1:157:A:LYS:HA	1:134:A:GLU:HB2	14	0.17
(1,330)	1:124:A:LYS:HA	1:124:A:LYS:HE3	10	0.17
(1,310)	1:14:A:ALA:HA	1:21:A:LYS:HD3	2	0.17
(1,310)	1:14:A:ALA:HA	1:21:A:LYS:HD2	6	0.17
(1,289)	1:85:A:ARG:HG3	1:85:A:ARG:HD3	16	0.17
(1,289)	1:85:A:ARG:HG3	1:85:A:ARG:HD3	17	0.17
(1,282)	1:37:A:LYS:HE3	1:67:A:LYS:HG2	1	0.17
(1,282)	1:37:A:LYS:HE2	1:67:A:LYS:HG2	15	0.17
(1,262)	1:24:A:ILE:HG22	1:24:A:ILE:HB	5	0.17
(1,262)	1:24:A:ILE:HG23	1:24:A:ILE:HB	9	0.17
(1,246)	1:87:A:LYS:HB2	1:79:A:LEU:HD22	7	0.17
(1,238)	1:52:A:ILE:HG22	1:60:A:MET:HG2	4	0.17
(1,223)	1:159:A:GLU:HB2	1:162:A:SER:HB3	11	0.17
(1,222)	1:159:A:GLU:HB3	1:162:A:SER:HB2	3	0.17
(1,222)	1:159:A:GLU:HB3	1:162:A:SER:HB2	8	0.17
(1,222)	1:159:A:GLU:HB3	1:162:A:SER:HB2	10	0.17
(1,222)	1:159:A:GLU:HB3	1:162:A:SER:HB2	13	0.17
(1,198)	1:56:A:LYS:HD3	1:121:A:SER:HB2	8	0.17
(1,192)	1:176:A:ARG:HG3	1:176:A:ARG:HB3	7	0.17
(1,191)	1:176:A:ARG:HG2	1:176:A:ARG:HB2	16	0.17
(1,191)	1:176:A:ARG:HG2	1:176:A:ARG:HB2	20	0.17
(1,190)	1:126:A:ILE:HD11	1:128:A:ARG:HG3	10	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,184)	1:52:A:ILE:HD11	1:52:A:ILE:HG13	1	0.17
(1,184)	1:52:A:ILE:HD13	1:52:A:ILE:HG13	3	0.17
(1,184)	1:52:A:ILE:HD13	1:52:A:ILE:HG13	5	0.17
(1,184)	1:52:A:ILE:HD12	1:52:A:ILE:HG13	7	0.17
(1,184)	1:52:A:ILE:HD13	1:52:A:ILE:HG13	9	0.17
(1,184)	1:52:A:ILE:HD12	1:52:A:ILE:HG13	11	0.17
(1,184)	1:52:A:ILE:HD12	1:52:A:ILE:HG13	12	0.17
(1,184)	1:52:A:ILE:HD11	1:52:A:ILE:HG13	13	0.17
(1,184)	1:52:A:ILE:HD13	1:52:A:ILE:HG13	15	0.17
(1,184)	1:52:A:ILE:HD11	1:52:A:ILE:HG13	19	0.17
(1,184)	1:52:A:ILE:HD12	1:52:A:ILE:HG13	20	0.17
(1,176)	1:124:A:LYS:HG2	1:124:A:LYS:HE3	2	0.17
(1,146)	1:50:A:LYS:HG3	1:50:A:LYS:HE3	18	0.17
(1,142)	1:56:A:LYS:HG2	1:56:A:LYS:HD2	18	0.17
(1,123)	1:150:A:VAL:HG23	1:79:A:LEU:HD23	20	0.17
(1,103)	1:140:A:ILE:HD11	1:149:A:MET:HE3	3	0.17
(1,103)	1:140:A:ILE:HD13	1:149:A:MET:HE1	13	0.17
(1,92)	1:17:A:LEU:H	1:16:A:SER:HB3	12	0.17
(1,85)	1:142:A:MET:H	1:141:A:SER:HB2	13	0.17
(1,72)	1:39:A:ARG:H	1:39:A:ARG:HB3	12	0.17
(1,72)	1:39:A:ARG:H	1:39:A:ARG:HB3	15	0.17
(1,57)	1:75:A:GLY:H	1:77:A:VAL:HG22	1	0.17
(1,57)	1:75:A:GLY:H	1:77:A:VAL:HG21	11	0.17
(1,57)	1:75:A:GLY:H	1:77:A:VAL:HG22	19	0.17
(1,33)	1:107:A:LYS:H	1:106:A:GLN:HG3	5	0.17
(1,33)	1:107:A:LYS:H	1:106:A:GLN:HG3	13	0.17
(1,27)	1:50:A:LYS:H	1:51:A:SER:HB2	3	0.17
(1,27)	1:50:A:LYS:H	1:51:A:SER:HB3	6	0.17
(1,27)	1:50:A:LYS:H	1:51:A:SER:HB3	14	0.17
(1,27)	1:50:A:LYS:H	1:51:A:SER:HB3	16	0.17
(1,24)	1:7:A:GLU:H	1:9:A:GLU:HG2	1	0.17
(1,24)	1:7:A:GLU:H	1:9:A:GLU:HG2	15	0.17
(1,18)	1:42:A:GLU:H	1:38:A:VAL:HG11	2	0.17
(2,24)	1:167:A:ILE:H	1:163:A:TRP:O	6	0.16
(2,22)	1:162:A:SER:H	1:159:A:GLU:O	15	0.16
(2,20)	1:154:A:ALA:H	1:135:A:LYS:O	9	0.16
(2,13)	1:101:A:LEU:H	1:90:A:GLN:O	12	0.16
(1,3516)	1:63:A:LYS:HE3	1:44:A:TYR:HE1	5	0.16
(1,3491)	1:62:A:ALA:HA	1:110:A:PHE:HD2	18	0.16
(1,3490)	1:51:A:SER:HB2	1:110:A:PHE:HD2	6	0.16
(1,3490)	1:51:A:SER:HB2	1:110:A:PHE:HD2	20	0.16
(1,3488)	1:149:A:MET:HE2	1:138:A:PHE:HE2	1	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3488)	1:149:A:MET:HE3	1:138:A:PHE:HE2	14	0.16
(1,3486)	1:138:A:PHE:HE2	1:128:A:ARG:HB3	19	0.16
(1,3447)	1:34:A:TYR:HB2	1:34:A:TYR:HD1	14	0.16
(1,3423)	1:159:A:GLU:HB2	1:163:A:TRP:HD1	3	0.16
(1,3407)	1:55:A:MET:HE2	1:119:A:VAL:HA	8	0.16
(1,3383)	1:42:A:GLU:HG3	1:38:A:VAL:HG21	10	0.16
(1,3383)	1:42:A:GLU:HG3	1:38:A:VAL:HG21	16	0.16
(1,3380)	1:40:A:LEU:HG	1:43:A:ILE:HD12	8	0.16
(1,3361)	1:157:A:LYS:HA	1:160:A:ARG:HB2	14	0.16
(1,3272)	1:98:A:LEU:H	1:97:A:ILE:HG22	8	0.16
(1,3259)	1:38:A:VAL:HB	1:38:A:VAL:HG22	7	0.16
(1,3259)	1:38:A:VAL:HB	1:38:A:VAL:HG23	9	0.16
(1,3259)	1:38:A:VAL:HB	1:38:A:VAL:HG22	11	0.16
(1,3259)	1:38:A:VAL:HB	1:38:A:VAL:HG22	16	0.16
(1,3259)	1:38:A:VAL:HB	1:38:A:VAL:HG21	17	0.16
(1,3259)	1:38:A:VAL:HB	1:38:A:VAL:HG21	19	0.16
(1,3259)	1:38:A:VAL:HB	1:38:A:VAL:HG22	20	0.16
(1,3231)	1:86:A:LEU:HD22	1:153:A:HIS:HA	15	0.16
(1,3229)	1:86:A:LEU:HD23	1:153:A:HIS:HE1	5	0.16
(1,3226)	1:89:A:VAL:HG11	1:102:A:GLN:H	18	0.16
(1,3222)	1:77:A:VAL:HG21	1:78:A:PHE:H	19	0.16
(1,3215)	1:15:A:GLN:HB2	1:2:A:MET:HG3	18	0.16
(1,3213)	1:174:A:LEU:HD22	1:174:A:LEU:HB2	2	0.16
(1,3213)	1:174:A:LEU:HD23	1:174:A:LEU:HB2	9	0.16
(1,3213)	1:174:A:LEU:HD21	1:174:A:LEU:HB2	18	0.16
(1,3202)	1:152:A:VAL:HG23	1:137:A:LEU:HG	16	0.16
(1,3190)	1:36:A:LYS:HD2	1:33:A:SER:HA	12	0.16
(1,3190)	1:36:A:LYS:HD2	1:33:A:SER:HA	14	0.16
(1,3187)	1:33:A:SER:HA	1:36:A:LYS:HB2	12	0.16
(1,3183)	1:144:A:MET:HA	1:145:A:THR:HG22	16	0.16
(1,3174)	1:101:A:LEU:HD21	1:108:A:TYR:HD2	2	0.16
(1,3159)	1:149:A:MET:HB3	1:140:A:ILE:HD13	19	0.16
(1,3157)	1:22:A:ASP:HB2	1:22:A:ASP:HA	8	0.16
(1,3118)	1:63:A:LYS:HG2	1:63:A:LYS:HE3	5	0.16
(1,3118)	1:63:A:LYS:HG2	1:63:A:LYS:HE3	17	0.16
(1,3113)	1:80:A:LYS:HE2	1:80:A:LYS:HB2	2	0.16
(1,3106)	1:36:A:LYS:HD2	1:36:A:LYS:HE2	9	0.16
(1,3106)	1:36:A:LYS:HD2	1:36:A:LYS:HE2	10	0.16
(1,3106)	1:36:A:LYS:HD2	1:36:A:LYS:HE2	11	0.16
(1,3105)	1:39:A:ARG:HD3	1:39:A:ARG:HA	12	0.16
(1,3078)	1:134:A:GLU:HG3	1:134:A:GLU:HA	17	0.16
(1,3052)	1:55:A:MET:HE3	1:61:A:PHE:HZ	11	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3052)	1:55:A:MET:HE2	1:61:A:PHE:HZ	15	0.16
(1,3051)	1:55:A:MET:HE1	1:59:A:GLN:HE22	3	0.16
(1,3022)	1:140:A:ILE:HD13	1:138:A:PHE:HA	9	0.16
(1,3010)	1:144:A:MET:HB3	1:144:A:MET:HG3	17	0.16
(1,3007)	1:114:A:ASP:HB3	1:114:A:ASP:HA	5	0.16
(1,2962)	1:66:A:LEU:HG	1:65:A:ASP:HB3	13	0.16
(1,2956)	1:41:A:ASN:HB2	1:44:A:TYR:HD1	11	0.16
(1,2956)	1:41:A:ASN:HB2	1:44:A:TYR:HD1	20	0.16
(1,2950)	1:60:A:MET:HG2	1:60:A:MET:HE2	9	0.16
(1,2950)	1:60:A:MET:HG2	1:60:A:MET:HE1	14	0.16
(1,2950)	1:60:A:MET:HG2	1:60:A:MET:HE1	18	0.16
(1,2948)	1:53:A:MET:HE2	1:110:A:PHE:HE1	12	0.16
(1,2925)	1:163:A:TRP:HA	1:166:A:ILE:HG12	19	0.16
(1,2897)	1:176:A:ARG:HB2	1:176:A:ARG:HA	2	0.16
(1,2897)	1:176:A:ARG:HB2	1:176:A:ARG:HA	9	0.16
(1,2897)	1:176:A:ARG:HB2	1:176:A:ARG:HA	12	0.16
(1,2897)	1:176:A:ARG:HB2	1:176:A:ARG:HA	15	0.16
(1,2897)	1:176:A:ARG:HB2	1:176:A:ARG:HA	16	0.16
(1,2897)	1:176:A:ARG:HB2	1:176:A:ARG:HA	17	0.16
(1,2897)	1:176:A:ARG:HB2	1:176:A:ARG:HA	18	0.16
(1,2897)	1:176:A:ARG:HB2	1:176:A:ARG:HA	19	0.16
(1,2897)	1:176:A:ARG:HB2	1:176:A:ARG:HA	20	0.16
(1,2894)	1:68:A:ARG:HB3	1:7:A:GLU:HA	12	0.16
(1,2886)	1:169:A:ASP:HA	1:172:A:ASN:HB2	8	0.16
(1,2864)	1:118:A:THR:HB	1:113:A:LEU:HB2	18	0.16
(1,2855)	1:43:A:ILE:HA	1:108:A:TYR:HE2	18	0.16
(1,2843)	1:31:A:VAL:HA	1:34:A:TYR:HE2	9	0.16
(1,2841)	1:16:A:SER:HB2	1:3:A:THR:HB	4	0.16
(1,2819)	1:121:A:SER:HA	1:121:A:SER:HB2	2	0.16
(1,2818)	1:76:A:SER:HB3	1:78:A:PHE:HE1	16	0.16
(1,2789)	1:158:A:GLU:HG2	1:158:A:GLU:HA	16	0.16
(1,2774)	1:77:A:VAL:HA	1:89:A:VAL:HG21	3	0.16
(1,2772)	1:29:A:SER:HA	1:32:A:ALA:HB1	9	0.16
(1,2739)	1:123:A:LYS:HD3	1:123:A:LYS:HA	17	0.16
(1,2727)	1:139:A:LEU:HD22	1:127:A:VAL:HA	4	0.16
(1,2713)	1:66:A:LEU:HD21	1:66:A:LEU:HA	11	0.16
(1,2709)	1:4:A:LYS:HB3	1:4:A:LYS:HA	19	0.16
(1,2672)	1:106:A:GLN:HG3	1:105:A:ASP:HA	10	0.16
(1,2661)	1:101:A:LEU:HD13	1:108:A:TYR:HA	7	0.16
(1,2631)	1:80:A:LYS:HA	1:86:A:LEU:HD12	12	0.16
(1,2607)	1:153:A:HIS:HA	1:136:A:GLY:HA2	1	0.16
(1,2607)	1:153:A:HIS:HA	1:136:A:GLY:HA2	2	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2598)	1:32:A:ALA:HA	1:35:A:GLU:HA	3	0.16
(1,2598)	1:32:A:ALA:HA	1:35:A:GLU:HA	16	0.16
(1,2596)	1:32:A:ALA:HA	1:35:A:GLU:HB3	7	0.16
(1,2596)	1:32:A:ALA:HA	1:35:A:GLU:HB3	10	0.16
(1,2596)	1:32:A:ALA:HA	1:35:A:GLU:HB3	11	0.16
(1,2596)	1:32:A:ALA:HA	1:35:A:GLU:HB3	12	0.16
(1,2596)	1:32:A:ALA:HA	1:35:A:GLU:HB3	18	0.16
(1,2596)	1:32:A:ALA:HA	1:35:A:GLU:HB3	20	0.16
(1,2551)	1:147:A:PRO:HD2	1:142:A:MET:HG2	3	0.16
(1,2551)	1:147:A:PRO:HD2	1:142:A:MET:HG2	5	0.16
(1,2542)	1:74:A:ASP:HB3	1:92:A:VAL:HG23	14	0.16
(1,2508)	1:73:A:ARG:HD2	1:166:A:ILE:HG12	13	0.16
(1,2479)	1:80:A:LYS:HE3	1:84:A:GLY:HA3	6	0.16
(1,2479)	1:80:A:LYS:HE3	1:84:A:GLY:HA3	16	0.16
(1,2472)	1:157:A:LYS:HG2	1:157:A:LYS:HE3	15	0.16
(1,2460)	1:96:A:ASP:HB3	1:94:A:LEU:HB2	6	0.16
(1,2446)	1:28:A:ASP:HB2	1:27:A:VAL:HG13	4	0.16
(1,2441)	1:146:A:ASP:HB2	1:147:A:PRO:HD3	7	0.16
(1,2411)	1:41:A:ASN:HB3	1:44:A:TYR:HB3	14	0.16
(1,2383)	1:35:A:GLU:HG3	1:38:A:VAL:HG12	13	0.16
(1,2330)	1:165:A:GLN:HG2	1:166:A:ILE:HG12	16	0.16
(1,2291)	1:4:A:LYS:HB3	1:9:A:GLU:HA	16	0.16
(1,2271)	1:144:A:MET:HG2	1:144:A:MET:HB2	6	0.16
(1,2261)	1:56:A:LYS:HG2	1:56:A:LYS:HB2	2	0.16
(1,2241)	1:63:A:LYS:HD3	1:63:A:LYS:HA	7	0.16
(1,2227)	1:178:A:GLU:HB3	1:178:A:GLU:HA	5	0.16
(1,2226)	1:11:A:GLU:HB3	1:177:A:ASP:HB3	19	0.16
(1,2209)	1:42:A:GLU:HB2	1:43:A:ILE:HD11	16	0.16
(1,2203)	1:42:A:GLU:HB3	1:39:A:ARG:HA	8	0.16
(1,2203)	1:42:A:GLU:HB3	1:39:A:ARG:HA	16	0.16
(1,2203)	1:42:A:GLU:HB3	1:39:A:ARG:HA	18	0.16
(1,2199)	1:68:A:ARG:HG2	1:68:A:ARG:HB3	2	0.16
(1,2199)	1:68:A:ARG:HG2	1:68:A:ARG:HB3	6	0.16
(1,2199)	1:68:A:ARG:HG2	1:68:A:ARG:HB3	9	0.16
(1,2199)	1:68:A:ARG:HG2	1:68:A:ARG:HB3	14	0.16
(1,2199)	1:68:A:ARG:HG2	1:68:A:ARG:HB3	15	0.16
(1,2199)	1:68:A:ARG:HG2	1:68:A:ARG:HB3	17	0.16
(1,2192)	1:15:A:GLN:HB2	1:18:A:SER:HA	5	0.16
(1,2192)	1:15:A:GLN:HB2	1:18:A:SER:HA	8	0.16
(1,2188)	1:98:A:LEU:HD21	1:93:A:LEU:HD22	18	0.16
(1,2167)	1:67:A:LYS:HD3	1:67:A:LYS:H	3	0.16
(1,2099)	1:66:A:LEU:HG	1:97:A:ILE:HG13	15	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2084)	1:52:A:ILE:HG13	1:52:A:ILE:HB	3	0.16
(1,2084)	1:52:A:ILE:HG13	1:52:A:ILE:HB	12	0.16
(1,2082)	1:182:A:ILE:HG13	1:182:A:ILE:HA	18	0.16
(1,2080)	1:182:A:ILE:HG13	1:123:A:LYS:HB3	3	0.16
(1,2080)	1:182:A:ILE:HG13	1:123:A:LYS:HB3	10	0.16
(1,2080)	1:182:A:ILE:HG13	1:123:A:LYS:HB3	14	0.16
(1,2080)	1:182:A:ILE:HG13	1:123:A:LYS:HB3	16	0.16
(1,2051)	1:113:A:LEU:HD11	1:113:A:LEU:HD22	7	0.16
(1,2051)	1:113:A:LEU:HD11	1:113:A:LEU:HD23	14	0.16
(1,1976)	1:101:A:LEU:HD13	1:101:A:LEU:HA	7	0.16
(1,1959)	1:66:A:LEU:HD11	1:66:A:LEU:HA	9	0.16
(1,1949)	1:94:A:LEU:HD21	1:69:A:LYS:HA	2	0.16
(1,1936)	1:56:A:LYS:HG2	1:56:A:LYS:HA	11	0.16
(1,1921)	1:67:A:LYS:HG2	1:44:A:TYR:HE2	6	0.16
(1,1921)	1:67:A:LYS:HG2	1:44:A:TYR:HE2	14	0.16
(1,1921)	1:67:A:LYS:HG2	1:44:A:TYR:HE2	15	0.16
(1,1918)	1:67:A:LYS:HG2	1:67:A:LYS:HD2	13	0.16
(1,1888)	1:174:A:LEU:HD22	1:123:A:LYS:HG2	6	0.16
(1,1885)	1:174:A:LEU:HD21	1:12:A:ASP:HB3	9	0.16
(1,1870)	1:87:A:LYS:HG2	1:87:A:LYS:HE2	2	0.16
(1,1870)	1:87:A:LYS:HG2	1:87:A:LYS:HE2	9	0.16
(1,1870)	1:87:A:LYS:HG2	1:87:A:LYS:HE2	11	0.16
(1,1870)	1:87:A:LYS:HG2	1:87:A:LYS:HE2	12	0.16
(1,1870)	1:87:A:LYS:HG2	1:87:A:LYS:HE2	18	0.16
(1,1870)	1:87:A:LYS:HG2	1:87:A:LYS:HE2	20	0.16
(1,1863)	1:95:A:THR:HG22	1:70:A:LYS:HG2	16	0.16
(1,1863)	1:95:A:THR:HG21	1:70:A:LYS:HG2	20	0.16
(1,1860)	1:62:A:ALA:HB3	1:110:A:PHE:HE2	5	0.16
(1,1835)	1:173:A:THR:HG21	1:176:A:ARG:HD3	6	0.16
(1,1829)	1:3:A:THR:HG21	1:3:A:THR:HB	3	0.16
(1,1829)	1:3:A:THR:HG22	1:3:A:THR:HB	15	0.16
(1,1829)	1:3:A:THR:HG22	1:3:A:THR:HB	19	0.16
(1,1811)	1:38:A:VAL:HG12	1:38:A:VAL:HG21	19	0.16
(1,1780)	1:150:A:VAL:HG11	1:150:A:VAL:HG23	2	0.16
(1,1780)	1:150:A:VAL:HG11	1:150:A:VAL:HG23	4	0.16
(1,1780)	1:150:A:VAL:HG11	1:150:A:VAL:HG23	9	0.16
(1,1780)	1:150:A:VAL:HG12	1:150:A:VAL:HG22	17	0.16
(1,1769)	1:86:A:LEU:HD22	1:78:A:PHE:HB2	16	0.16
(1,1763)	1:99:A:VAL:HG13	1:101:A:LEU:HG	17	0.16
(1,1726)	1:20:A:VAL:HG21	1:21:A:LYS:HA	5	0.16
(1,1726)	1:20:A:VAL:HG22	1:21:A:LYS:HA	8	0.16
(1,1690)	1:111:A:ALA:HB3	1:102:A:GLN:HB3	11	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1683)	1:83:A:ALA:HB2	1:83:A:ALA:HA	4	0.16
(1,1610)	1:60:A:MET:HE2	1:60:A:MET:HG3	2	0.16
(1,1604)	1:149:A:MET:HE3	1:138:A:PHE:HA	3	0.16
(1,1604)	1:149:A:MET:HE1	1:138:A:PHE:HA	8	0.16
(1,1590)	1:55:A:MET:HE1	1:55:A:MET:HG3	9	0.16
(1,1551)	1:120:A:ILE:HD11	1:100:A:PHE:HZ	6	0.16
(1,1551)	1:120:A:ILE:HD12	1:100:A:PHE:HZ	7	0.16
(1,1551)	1:120:A:ILE:HD12	1:100:A:PHE:HZ	9	0.16
(1,1548)	1:120:A:ILE:HD11	1:139:A:LEU:HB2	2	0.16
(1,1548)	1:120:A:ILE:HD12	1:139:A:LEU:HB2	13	0.16
(1,1548)	1:120:A:ILE:HD13	1:139:A:LEU:HB2	15	0.16
(1,1539)	1:140:A:ILE:HD13	1:149:A:MET:HB2	19	0.16
(1,1522)	1:166:A:ILE:HD12	1:73:A:ARG:HB2	13	0.16
(1,1518)	1:109:A:ILE:HD13	1:102:A:GLN:HB2	14	0.16
(1,1508)	1:69:A:LYS:H	1:68:A:ARG:HG2	2	0.16
(1,1508)	1:69:A:LYS:H	1:68:A:ARG:HG2	8	0.16
(1,1508)	1:69:A:LYS:H	1:68:A:ARG:HG2	15	0.16
(1,1504)	1:163:A:TRP:HE1	1:75:A:GLY:HA2	3	0.16
(1,1503)	1:23:A:VAL:H	1:27:A:VAL:HB	2	0.16
(1,1503)	1:23:A:VAL:H	1:27:A:VAL:HB	15	0.16
(1,1466)	1:10:A:GLN:H	1:10:A:GLN:HG2	18	0.16
(1,1465)	1:5:A:ASP:H	1:5:A:ASP:HA	5	0.16
(1,1460)	1:85:A:ARG:H	1:83:A:ALA:HB3	13	0.16
(1,1457)	1:107:A:LYS:H	1:104:A:LYS:HB2	2	0.16
(1,1457)	1:107:A:LYS:H	1:104:A:LYS:HB2	13	0.16
(1,1421)	1:134:A:GLU:H	1:134:A:GLU:HG3	18	0.16
(1,1410)	1:172:A:ASN:HD22	1:168:A:GLN:HG3	1	0.16
(1,1390)	1:184:A:SER:H	1:59:A:GLN:HG2	13	0.16
(1,1388)	1:165:A:GLN:HE22	1:166:A:ILE:HG12	10	0.16
(1,1388)	1:165:A:GLN:HE22	1:166:A:ILE:HG12	11	0.16
(1,1388)	1:165:A:GLN:HE22	1:166:A:ILE:HG12	16	0.16
(1,1366)	1:135:A:LYS:H	1:135:A:LYS:HB2	2	0.16
(1,1359)	1:69:A:LYS:H	1:40:A:LEU:HD13	2	0.16
(1,1311)	1:63:A:LYS:H	1:63:A:LYS:HD2	20	0.16
(1,1301)	1:79:A:LEU:H	1:78:A:PHE:HD1	7	0.16
(1,1296)	1:67:A:LYS:H	1:69:A:LYS:HD2	11	0.16
(1,1275)	1:163:A:TRP:HE1	1:154:A:ALA:HB2	4	0.16
(1,1274)	1:163:A:TRP:HE1	1:77:A:VAL:HG13	15	0.16
(1,1225)	1:156:A:SER:H	1:156:A:SER:HB2	14	0.16
(1,1222)	1:156:A:SER:H	1:154:A:ALA:HA	15	0.16
(1,1216)	1:118:A:THR:H	1:117:A:SER:HB2	13	0.16
(1,1142)	1:165:A:GLN:H	1:164:A:ILE:HG23	11	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1110)	1:73:A:ARG:H	1:73:A:ARG:HB2	4	0.16
(1,1100)	1:41:A:ASN:H	1:37:A:LYS:HA	6	0.16
(1,1096)	1:76:A:SER:H	1:75:A:GLY:HA3	6	0.16
(1,1096)	1:76:A:SER:H	1:75:A:GLY:HA3	10	0.16
(1,1080)	1:123:A:LYS:H	1:174:A:LEU:HD13	4	0.16
(1,1079)	1:123:A:LYS:H	1:123:A:LYS:HG3	1	0.16
(1,1079)	1:123:A:LYS:H	1:123:A:LYS:HG3	3	0.16
(1,1077)	1:123:A:LYS:H	1:123:A:LYS:HB2	13	0.16
(1,1074)	1:162:A:SER:H	1:161:A:ASN:HB3	11	0.16
(1,1071)	1:162:A:SER:H	1:165:A:GLN:HE21	2	0.16
(1,1071)	1:162:A:SER:H	1:165:A:GLN:HE21	8	0.16
(1,1071)	1:162:A:SER:H	1:165:A:GLN:HE21	13	0.16
(1,1071)	1:162:A:SER:H	1:165:A:GLN:HE21	14	0.16
(1,1071)	1:162:A:SER:H	1:165:A:GLN:HE21	18	0.16
(1,1070)	1:162:A:SER:H	1:161:A:ASN:HD21	18	0.16
(1,1028)	1:138:A:PHE:H	1:130:A:VAL:HB	1	0.16
(1,1028)	1:138:A:PHE:H	1:130:A:VAL:HB	11	0.16
(1,1028)	1:138:A:PHE:H	1:130:A:VAL:HB	12	0.16
(1,993)	1:27:A:VAL:H	1:27:A:VAL:HG13	14	0.16
(1,940)	1:178:A:GLU:H	1:178:A:GLU:HA	8	0.16
(1,940)	1:178:A:GLU:H	1:178:A:GLU:HA	18	0.16
(1,918)	1:31:A:VAL:H	1:31:A:VAL:HB	7	0.16
(1,918)	1:31:A:VAL:H	1:31:A:VAL:HB	10	0.16
(1,918)	1:31:A:VAL:H	1:31:A:VAL:HB	14	0.16
(1,918)	1:31:A:VAL:H	1:31:A:VAL:HB	20	0.16
(1,914)	1:50:A:LYS:H	1:50:A:LYS:HG3	13	0.16
(1,906)	1:116:A:LYS:H	1:117:A:SER:H	4	0.16
(1,906)	1:116:A:LYS:H	1:117:A:SER:H	19	0.16
(1,898)	1:176:A:ARG:H	1:176:A:ARG:HD3	8	0.16
(1,898)	1:176:A:ARG:H	1:176:A:ARG:HD3	9	0.16
(1,841)	1:110:A:PHE:H	1:109:A:ILE:HG21	6	0.16
(1,841)	1:110:A:PHE:H	1:109:A:ILE:HG22	15	0.16
(1,835)	1:12:A:ASP:H	1:174:A:LEU:HA	6	0.16
(1,835)	1:12:A:ASP:H	1:174:A:LEU:HA	15	0.16
(1,827)	1:86:A:LEU:H	1:86:A:LEU:HD21	19	0.16
(1,820)	1:86:A:LEU:H	1:85:A:ARG:H	7	0.16
(1,820)	1:86:A:LEU:H	1:85:A:ARG:H	16	0.16
(1,815)	1:125:A:LEU:H	1:125:A:LEU:HG	1	0.16
(1,815)	1:125:A:LEU:H	1:125:A:LEU:HG	2	0.16
(1,815)	1:125:A:LEU:H	1:125:A:LEU:HG	12	0.16
(1,815)	1:125:A:LEU:H	1:125:A:LEU:HG	13	0.16
(1,815)	1:125:A:LEU:H	1:125:A:LEU:HG	16	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,815)	1:125:A:LEU:H	1:125:A:LEU:HG	20	0.16
(1,811)	1:125:A:LEU:H	1:123:A:LYS:HA	1	0.16
(1,811)	1:125:A:LEU:H	1:123:A:LYS:HA	15	0.16
(1,809)	1:163:A:TRP:H	1:164:A:ILE:HG13	2	0.16
(1,809)	1:163:A:TRP:H	1:164:A:ILE:HG13	17	0.16
(1,795)	1:11:A:GLU:H	1:10:A:GLN:HB3	9	0.16
(1,786)	1:87:A:LYS:H	1:87:A:LYS:HB2	3	0.16
(1,786)	1:87:A:LYS:H	1:87:A:LYS:HB2	17	0.16
(1,776)	1:42:A:GLU:H	1:43:A:ILE:HB	8	0.16
(1,776)	1:42:A:GLU:H	1:43:A:ILE:HB	18	0.16
(1,767)	1:14:A:ALA:H	1:14:A:ALA:HA	18	0.16
(1,709)	1:74:A:ASP:H	1:73:A:ARG:HB3	9	0.16
(1,709)	1:74:A:ASP:H	1:73:A:ARG:HB3	20	0.16
(1,701)	1:137:A:LEU:H	1:130:A:VAL:HG23	8	0.16
(1,701)	1:137:A:LEU:H	1:130:A:VAL:HG23	18	0.16
(1,697)	1:137:A:LEU:H	1:137:A:LEU:HG	2	0.16
(1,697)	1:137:A:LEU:H	1:137:A:LEU:HG	7	0.16
(1,697)	1:137:A:LEU:H	1:137:A:LEU:HG	16	0.16
(1,693)	1:28:A:ASP:H	1:27:A:VAL:HB	8	0.16
(1,693)	1:28:A:ASP:H	1:27:A:VAL:HB	15	0.16
(1,654)	1:21:A:LYS:H	1:20:A:VAL:HB	14	0.16
(1,601)	1:55:A:MET:H	1:55:A:MET:HB2	4	0.16
(1,592)	1:120:A:ILE:H	1:120:A:ILE:HG12	7	0.16
(1,582)	1:167:A:ILE:H	1:127:A:VAL:HG12	1	0.16
(1,582)	1:167:A:ILE:H	1:127:A:VAL:HG13	15	0.16
(1,520)	1:8:A:VAL:HG23	1:8:A:VAL:HB	5	0.16
(1,515)	1:37:A:LYS:HD2	1:34:A:TYR:HE2	18	0.16
(1,507)	1:153:A:HIS:HE1	1:132:A:HIS:HD2	9	0.16
(1,489)	1:70:A:LYS:HB3	1:36:A:LYS:HE2	1	0.16
(1,486)	1:21:A:LYS:HD2	1:30:A:LYS:HA	14	0.16
(1,486)	1:21:A:LYS:HD2	1:30:A:LYS:HA	17	0.16
(1,486)	1:21:A:LYS:HD2	1:30:A:LYS:HA	20	0.16
(1,440)	1:36:A:LYS:HE2	1:36:A:LYS:HD3	1	0.16
(1,440)	1:36:A:LYS:HE2	1:36:A:LYS:HD3	5	0.16
(1,440)	1:36:A:LYS:HE2	1:36:A:LYS:HD3	12	0.16
(1,437)	1:37:A:LYS:HB3	1:34:A:TYR:HE2	4	0.16
(1,422)	1:37:A:LYS:HD3	1:37:A:LYS:HE2	11	0.16
(1,417)	1:156:A:SER:HB2	1:135:A:LYS:HE3	11	0.16
(1,412)	1:21:A:LYS:HD2	1:14:A:ALA:HB1	6	0.16
(1,408)	1:49:A:SER:HB2	1:49:A:SER:HA	2	0.16
(1,408)	1:49:A:SER:HB2	1:49:A:SER:HA	6	0.16
(1,408)	1:49:A:SER:HB2	1:49:A:SER:HA	17	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,402)	1:176:A:ARG:HB3	1:176:A:ARG:HA	19	0.16
(1,379)	1:72:A:VAL:HA	1:71:A:LEU:HB3	10	0.16
(1,379)	1:72:A:VAL:HA	1:71:A:LEU:HB3	16	0.16
(1,358)	1:155:A:SER:HA	1:135:A:LYS:HE3	11	0.16
(1,357)	1:34:A:TYR:HA	1:30:A:LYS:HE2	11	0.16
(1,352)	1:67:A:LYS:HA	1:40:A:LEU:HD23	16	0.16
(1,334)	1:7:A:GLU:HB2	1:7:A:GLU:HA	1	0.16
(1,333)	1:7:A:GLU:HA	1:6:A:ASN:HB3	13	0.16
(1,333)	1:7:A:GLU:HA	1:6:A:ASN:HB3	18	0.16
(1,294)	1:22:A:ASP:HB2	1:17:A:LEU:HA	10	0.16
(1,289)	1:85:A:ARG:HG3	1:85:A:ARG:HD3	18	0.16
(1,289)	1:85:A:ARG:HG3	1:85:A:ARG:HD3	20	0.16
(1,282)	1:37:A:LYS:HE2	1:67:A:LYS:HG2	3	0.16
(1,282)	1:37:A:LYS:HE3	1:67:A:LYS:HG2	5	0.16
(1,282)	1:37:A:LYS:HE3	1:67:A:LYS:HG2	10	0.16
(1,262)	1:24:A:ILE:HG23	1:24:A:ILE:HB	2	0.16
(1,262)	1:24:A:ILE:HG23	1:24:A:ILE:HB	11	0.16
(1,262)	1:24:A:ILE:HG23	1:24:A:ILE:HB	17	0.16
(1,257)	1:103:A:GLU:HG2	1:106:A:GLN:HA	5	0.16
(1,242)	1:4:A:LYS:HB3	1:4:A:LYS:HE3	14	0.16
(1,238)	1:52:A:ILE:HD11	1:60:A:MET:HG2	10	0.16
(1,232)	1:30:A:LYS:HB3	1:30:A:LYS:HD3	2	0.16
(1,222)	1:159:A:GLU:HB3	1:162:A:SER:HB2	14	0.16
(1,191)	1:176:A:ARG:HG2	1:176:A:ARG:HB2	9	0.16
(1,191)	1:176:A:ARG:HG2	1:176:A:ARG:HB2	14	0.16
(1,191)	1:176:A:ARG:HG2	1:176:A:ARG:HB2	17	0.16
(1,184)	1:52:A:ILE:HD11	1:52:A:ILE:HG13	14	0.16
(1,184)	1:52:A:ILE:HD11	1:52:A:ILE:HG13	18	0.16
(1,154)	1:71:A:LEU:HD21	1:74:A:ASP:HB2	8	0.16
(1,133)	1:86:A:LEU:HD12	1:153:A:HIS:HB2	5	0.16
(1,114)	1:72:A:VAL:HG13	1:70:A:LYS:HB3	10	0.16
(1,78)	1:107:A:LYS:H	1:103:A:GLU:HG2	12	0.16
(1,78)	1:107:A:LYS:H	1:103:A:GLU:HG2	16	0.16
(1,77)	1:46:A:LYS:H	1:46:A:LYS:HD2	2	0.16
(1,72)	1:39:A:ARG:H	1:39:A:ARG:HB3	6	0.16
(1,72)	1:39:A:ARG:H	1:39:A:ARG:HB3	13	0.16
(1,68)	1:15:A:GLN:HE22	1:15:A:GLN:HG2	8	0.16
(1,61)	1:79:A:LEU:H	1:87:A:LYS:HB2	16	0.16
(1,58)	1:13:A:LEU:H	1:8:A:VAL:HG11	20	0.16
(1,46)	1:175:A:ASN:H	1:174:A:LEU:HG	1	0.16
(1,37)	1:169:A:ASP:H	1:167:A:ILE:HD12	9	0.16
(1,33)	1:107:A:LYS:H	1:106:A:GLN:HG3	4	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,27)	1:50:A:LYS:H	1:51:A:SER:HB2	11	0.16
(1,27)	1:50:A:LYS:H	1:51:A:SER:HB3	20	0.16
(1,22)	1:130:A:VAL:H	1:129:A:GLU:HB3	4	0.16
(1,22)	1:130:A:VAL:H	1:129:A:GLU:HB3	13	0.16
(1,22)	1:130:A:VAL:H	1:129:A:GLU:HB3	16	0.16
(1,3)	1:185:A:GLU:H	1:185:A:GLU:HG3	3	0.16
(2,24)	1:167:A:ILE:H	1:163:A:TRP:O	3	0.15
(2,24)	1:167:A:ILE:H	1:163:A:TRP:O	11	0.15
(2,24)	1:167:A:ILE:H	1:163:A:TRP:O	13	0.15
(1,3516)	1:63:A:LYS:HE3	1:44:A:TYR:HE1	1	0.15
(1,3516)	1:63:A:LYS:HE3	1:44:A:TYR:HE1	20	0.15
(1,3491)	1:62:A:ALA:HA	1:110:A:PHE:HD2	11	0.15
(1,3447)	1:34:A:TYR:HB2	1:34:A:TYR:HD1	8	0.15
(1,3447)	1:34:A:TYR:HB2	1:34:A:TYR:HD1	9	0.15
(1,3447)	1:34:A:TYR:HB2	1:34:A:TYR:HD2	13	0.15
(1,3447)	1:34:A:TYR:HB2	1:34:A:TYR:HD1	19	0.15
(1,3423)	1:159:A:GLU:HB2	1:163:A:TRP:HD1	18	0.15
(1,3391)	1:11:A:GLU:HB3	1:12:A:ASP:HB2	11	0.15
(1,3391)	1:11:A:GLU:HB3	1:12:A:ASP:HB2	20	0.15
(1,3376)	1:53:A:MET:HG2	1:119:A:VAL:HB	11	0.15
(1,3370)	1:174:A:LEU:HD23	1:171:A:ILE:HA	9	0.15
(1,3321)	1:60:A:MET:HE2	1:60:A:MET:HA	8	0.15
(1,3259)	1:38:A:VAL:HB	1:38:A:VAL:HG23	4	0.15
(1,3259)	1:38:A:VAL:HB	1:38:A:VAL:HG23	6	0.15
(1,3259)	1:38:A:VAL:HB	1:38:A:VAL:HG22	10	0.15
(1,3259)	1:38:A:VAL:HB	1:38:A:VAL:HG22	12	0.15
(1,3259)	1:38:A:VAL:HB	1:38:A:VAL:HG21	13	0.15
(1,3247)	1:2:A:MET:HG3	1:2:A:MET:HB3	13	0.15
(1,3242)	1:113:A:LEU:HD12	1:81:A:ASN:H	19	0.15
(1,3229)	1:86:A:LEU:HD22	1:153:A:HIS:HE1	18	0.15
(1,3226)	1:89:A:VAL:HG13	1:102:A:GLN:H	2	0.15
(1,3226)	1:89:A:VAL:HG13	1:102:A:GLN:H	6	0.15
(1,3226)	1:89:A:VAL:HG12	1:102:A:GLN:H	9	0.15
(1,3214)	1:15:A:GLN:HB3	1:2:A:MET:HG2	18	0.15
(1,3213)	1:174:A:LEU:HD23	1:174:A:LEU:HB2	11	0.15
(1,3213)	1:174:A:LEU:HD21	1:174:A:LEU:HB2	20	0.15
(1,3207)	1:166:A:ILE:HG21	1:167:A:ILE:H	9	0.15
(1,3190)	1:36:A:LYS:HD2	1:33:A:SER:HA	20	0.15
(1,3189)	1:33:A:SER:HA	1:36:A:LYS:HG2	1	0.15
(1,3187)	1:33:A:SER:HA	1:36:A:LYS:HB2	17	0.15
(1,3186)	1:33:A:SER:HB2	1:33:A:SER:HA	2	0.15
(1,3186)	1:33:A:SER:HB2	1:33:A:SER:HA	4	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3186)	1:33:A:SER:HB2	1:33:A:SER:HA	5	0.15
(1,3186)	1:33:A:SER:HB2	1:33:A:SER:HA	6	0.15
(1,3186)	1:33:A:SER:HB2	1:33:A:SER:HA	7	0.15
(1,3186)	1:33:A:SER:HB2	1:33:A:SER:HA	8	0.15
(1,3186)	1:33:A:SER:HB2	1:33:A:SER:HA	9	0.15
(1,3186)	1:33:A:SER:HB2	1:33:A:SER:HA	11	0.15
(1,3186)	1:33:A:SER:HB2	1:33:A:SER:HA	12	0.15
(1,3186)	1:33:A:SER:HB2	1:33:A:SER:HA	13	0.15
(1,3186)	1:33:A:SER:HB2	1:33:A:SER:HA	16	0.15
(1,3186)	1:33:A:SER:HB2	1:33:A:SER:HA	18	0.15
(1,3186)	1:33:A:SER:HB2	1:33:A:SER:HA	19	0.15
(1,3183)	1:144:A:MET:HA	1:145:A:THR:HG23	6	0.15
(1,3174)	1:101:A:LEU:HD23	1:108:A:TYR:HD2	1	0.15
(1,3174)	1:101:A:LEU:HD23	1:108:A:TYR:HD2	4	0.15
(1,3174)	1:101:A:LEU:HD23	1:108:A:TYR:HD2	20	0.15
(1,3173)	1:101:A:LEU:HD23	1:110:A:PHE:HD1	6	0.15
(1,3173)	1:101:A:LEU:HD22	1:110:A:PHE:HD1	12	0.15
(1,3173)	1:101:A:LEU:HD22	1:110:A:PHE:HD1	14	0.15
(1,3157)	1:22:A:ASP:HB2	1:22:A:ASP:HA	3	0.15
(1,3157)	1:22:A:ASP:HB2	1:22:A:ASP:HA	17	0.15
(1,3113)	1:80:A:LYS:HE2	1:80:A:LYS:HB2	9	0.15
(1,3113)	1:80:A:LYS:HE2	1:80:A:LYS:HB2	19	0.15
(1,3106)	1:36:A:LYS:HD2	1:36:A:LYS:HE2	3	0.15
(1,3106)	1:36:A:LYS:HD2	1:36:A:LYS:HE2	17	0.15
(1,3103)	1:73:A:ARG:HD2	1:166:A:ILE:HG21	7	0.15
(1,3055)	1:144:A:MET:HG3	1:145:A:THR:HG21	7	0.15
(1,3055)	1:144:A:MET:HG3	1:145:A:THR:HG22	11	0.15
(1,3055)	1:144:A:MET:HG3	1:145:A:THR:HG22	14	0.15
(1,3055)	1:144:A:MET:HG3	1:145:A:THR:HG22	16	0.15
(1,3055)	1:144:A:MET:HG3	1:145:A:THR:HG23	18	0.15
(1,3052)	1:55:A:MET:HE1	1:61:A:PHE:HZ	3	0.15
(1,3043)	1:88:A:GLU:HB3	1:78:A:PHE:HD1	8	0.15
(1,3030)	1:69:A:LYS:HE2	1:97:A:ILE:H	1	0.15
(1,3022)	1:140:A:ILE:HD12	1:138:A:PHE:HA	4	0.15
(1,3022)	1:140:A:ILE:HD12	1:138:A:PHE:HA	12	0.15
(1,3013)	1:156:A:SER:HA	1:135:A:LYS:HD3	18	0.15
(1,3010)	1:144:A:MET:HB3	1:144:A:MET:HG3	11	0.15
(1,2994)	1:11:A:GLU:HG2	1:11:A:GLU:HA	8	0.15
(1,2962)	1:66:A:LEU:HG	1:65:A:ASP:HB3	8	0.15
(1,2962)	1:66:A:LEU:HG	1:65:A:ASP:HB3	16	0.15
(1,2962)	1:66:A:LEU:HG	1:65:A:ASP:HB3	20	0.15
(1,2955)	1:145:A:THR:HG23	1:146:A:ASP:HB3	3	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2929)	1:166:A:ILE:HB	1:169:A:ASP:HB3	9	0.15
(1,2921)	1:185:A:GLU:HB2	1:185:A:GLU:HA	6	0.15
(1,2921)	1:185:A:GLU:HB2	1:185:A:GLU:HA	16	0.15
(1,2918)	1:141:A:SER:HB2	1:140:A:ILE:HG21	15	0.15
(1,2904)	1:140:A:ILE:HD13	1:128:A:ARG:HB3	13	0.15
(1,2889)	1:111:A:ALA:HB1	1:100:A:PHE:HA	1	0.15
(1,2889)	1:111:A:ALA:HB1	1:100:A:PHE:HA	7	0.15
(1,2868)	1:167:A:ILE:HA	1:170:A:THR:HG23	9	0.15
(1,2855)	1:43:A:ILE:HA	1:108:A:TYR:HE2	1	0.15
(1,2855)	1:43:A:ILE:HA	1:108:A:TYR:HE2	3	0.15
(1,2855)	1:43:A:ILE:HA	1:108:A:TYR:HE2	13	0.15
(1,2855)	1:43:A:ILE:HA	1:108:A:TYR:HE2	15	0.15
(1,2843)	1:31:A:VAL:HA	1:34:A:TYR:HE1	10	0.15
(1,2819)	1:121:A:SER:HA	1:121:A:SER:HB2	5	0.15
(1,2819)	1:121:A:SER:HA	1:121:A:SER:HB2	7	0.15
(1,2819)	1:121:A:SER:HA	1:121:A:SER:HB2	15	0.15
(1,2819)	1:121:A:SER:HA	1:121:A:SER:HB2	19	0.15
(1,2789)	1:158:A:GLU:HG2	1:158:A:GLU:HA	11	0.15
(1,2783)	1:117:A:SER:HA	1:55:A:MET:HB3	7	0.15
(1,2760)	1:20:A:VAL:HA	1:20:A:VAL:HB	6	0.15
(1,2756)	1:63:A:LYS:HA	1:44:A:TYR:HE2	5	0.15
(1,2756)	1:63:A:LYS:HA	1:44:A:TYR:HE2	18	0.15
(1,2740)	1:134:A:GLU:HG2	1:134:A:GLU:HA	20	0.15
(1,2710)	1:178:A:GLU:HA	1:177:A:ASP:HB2	5	0.15
(1,2710)	1:178:A:GLU:HA	1:177:A:ASP:HB2	12	0.15
(1,2677)	1:144:A:MET:HG2	1:144:A:MET:HA	1	0.15
(1,2672)	1:106:A:GLN:HG3	1:105:A:ASP:HA	8	0.15
(1,2665)	1:70:A:LYS:HG2	1:70:A:LYS:HA	1	0.15
(1,2665)	1:70:A:LYS:HG2	1:70:A:LYS:HA	11	0.15
(1,2607)	1:153:A:HIS:HA	1:136:A:GLY:HA2	9	0.15
(1,2596)	1:32:A:ALA:HA	1:35:A:GLU:HB3	3	0.15
(1,2594)	1:14:A:ALA:HA	1:19:A:LEU:HB2	16	0.15
(1,2542)	1:74:A:ASP:HB3	1:92:A:VAL:HG23	2	0.15
(1,2542)	1:74:A:ASP:HB3	1:92:A:VAL:HG21	9	0.15
(1,2542)	1:74:A:ASP:HB3	1:92:A:VAL:HG23	18	0.15
(1,2542)	1:74:A:ASP:HB3	1:92:A:VAL:HG23	20	0.15
(1,2519)	1:68:A:ARG:HD3	1:68:A:ARG:HA	13	0.15
(1,2508)	1:73:A:ARG:HD2	1:166:A:ILE:HG12	8	0.15
(1,2479)	1:80:A:LYS:HE3	1:84:A:GLY:HA3	10	0.15
(1,2442)	1:146:A:ASP:HB3	1:147:A:PRO:HD3	2	0.15
(1,2442)	1:146:A:ASP:HB3	1:147:A:PRO:HD3	4	0.15
(1,2442)	1:146:A:ASP:HB3	1:147:A:PRO:HD3	17	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2442)	1:146:A:ASP:HB3	1:147:A:PRO:HD3	18	0.15
(1,2411)	1:41:A:ASN:HB3	1:44:A:TYR:HB3	8	0.15
(1,2379)	1:178:A:GLU:HG2	1:178:A:GLU:HB2	6	0.15
(1,2379)	1:178:A:GLU:HG2	1:178:A:GLU:HB2	9	0.15
(1,2379)	1:178:A:GLU:HG2	1:178:A:GLU:HB2	17	0.15
(1,2330)	1:165:A:GLN:HG2	1:166:A:ILE:HG12	5	0.15
(1,2317)	1:67:A:LYS:HB3	1:44:A:TYR:HE2	10	0.15
(1,2299)	1:102:A:GLN:HB3	1:89:A:VAL:HG13	16	0.15
(1,2261)	1:56:A:LYS:HG2	1:56:A:LYS:HB2	7	0.15
(1,2261)	1:56:A:LYS:HG2	1:56:A:LYS:HB2	10	0.15
(1,2261)	1:56:A:LYS:HG2	1:56:A:LYS:HB2	11	0.15
(1,2261)	1:56:A:LYS:HG2	1:56:A:LYS:HB2	19	0.15
(1,2250)	1:119:A:VAL:HG21	1:53:A:MET:HG3	18	0.15
(1,2241)	1:63:A:LYS:HD3	1:63:A:LYS:HA	3	0.15
(1,2230)	1:11:A:GLU:HB2	1:11:A:GLU:HA	3	0.15
(1,2230)	1:11:A:GLU:HB2	1:11:A:GLU:HA	11	0.15
(1,2209)	1:42:A:GLU:HB2	1:43:A:ILE:HD12	11	0.15
(1,2203)	1:42:A:GLU:HB3	1:39:A:ARG:HA	7	0.15
(1,2199)	1:68:A:ARG:HG2	1:68:A:ARG:HB3	18	0.15
(1,2135)	1:126:A:ILE:HG13	1:140:A:ILE:HD13	10	0.15
(1,2135)	1:126:A:ILE:HG13	1:140:A:ILE:HD13	12	0.15
(1,2127)	1:137:A:LEU:HD11	1:164:A:ILE:H	6	0.15
(1,2119)	1:137:A:LEU:HD13	1:163:A:TRP:HB3	16	0.15
(1,2119)	1:137:A:LEU:HD11	1:163:A:TRP:HB3	17	0.15
(1,2099)	1:66:A:LEU:HG	1:97:A:ILE:HG13	5	0.15
(1,2088)	1:125:A:LEU:HG	1:167:A:ILE:HG21	8	0.15
(1,2084)	1:52:A:ILE:HG13	1:52:A:ILE:HB	8	0.15
(1,2082)	1:182:A:ILE:HG13	1:182:A:ILE:HA	4	0.15
(1,2080)	1:182:A:ILE:HG13	1:123:A:LYS:HB3	2	0.15
(1,2080)	1:182:A:ILE:HG13	1:123:A:LYS:HB3	13	0.15
(1,2076)	1:71:A:LEU:HG	1:39:A:ARG:HD3	19	0.15
(1,2051)	1:113:A:LEU:HD13	1:113:A:LEU:HD23	9	0.15
(1,2051)	1:113:A:LEU:HD11	1:113:A:LEU:HD23	20	0.15
(1,1976)	1:101:A:LEU:HD11	1:101:A:LEU:HA	1	0.15
(1,1976)	1:101:A:LEU:HD11	1:101:A:LEU:HA	9	0.15
(1,1976)	1:101:A:LEU:HD12	1:101:A:LEU:HA	18	0.15
(1,1959)	1:66:A:LEU:HD11	1:66:A:LEU:HA	4	0.15
(1,1959)	1:66:A:LEU:HD12	1:66:A:LEU:HA	17	0.15
(1,1942)	1:37:A:LYS:HG3	1:37:A:LYS:HA	2	0.15
(1,1942)	1:37:A:LYS:HG3	1:37:A:LYS:HA	13	0.15
(1,1942)	1:37:A:LYS:HG3	1:37:A:LYS:HA	19	0.15
(1,1937)	1:56:A:LYS:HG2	1:121:A:SER:HB3	6	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1936)	1:56:A:LYS:HG2	1:56:A:LYS:HA	7	0.15
(1,1923)	1:67:A:LYS:HG2	1:44:A:TYR:HD2	17	0.15
(1,1897)	1:86:A:LEU:HD21	1:86:A:LEU:HD11	7	0.15
(1,1897)	1:86:A:LEU:HD21	1:86:A:LEU:HD12	12	0.15
(1,1889)	1:174:A:LEU:HD22	1:174:A:LEU:HG	1	0.15
(1,1889)	1:174:A:LEU:HD22	1:174:A:LEU:HG	3	0.15
(1,1884)	1:174:A:LEU:HD22	1:12:A:ASP:HB2	19	0.15
(1,1870)	1:87:A:LYS:HG2	1:87:A:LYS:HE2	1	0.15
(1,1870)	1:87:A:LYS:HG2	1:87:A:LYS:HE2	4	0.15
(1,1870)	1:87:A:LYS:HG2	1:87:A:LYS:HE2	14	0.15
(1,1863)	1:95:A:THR:HG22	1:70:A:LYS:HG2	13	0.15
(1,1863)	1:95:A:THR:HG21	1:70:A:LYS:HG2	19	0.15
(1,1846)	1:170:A:THR:HG22	1:72:A:VAL:HG13	6	0.15
(1,1815)	1:173:A:THR:HG22	1:176:A:ARG:HB2	1	0.15
(1,1811)	1:38:A:VAL:HG11	1:38:A:VAL:HG23	5	0.15
(1,1811)	1:38:A:VAL:HG11	1:38:A:VAL:HG21	17	0.15
(1,1804)	1:127:A:VAL:HG12	1:127:A:VAL:HA	7	0.15
(1,1804)	1:127:A:VAL:HG11	1:127:A:VAL:HA	10	0.15
(1,1780)	1:150:A:VAL:HG11	1:150:A:VAL:HG23	6	0.15
(1,1780)	1:150:A:VAL:HG13	1:150:A:VAL:HG22	10	0.15
(1,1780)	1:150:A:VAL:HG11	1:150:A:VAL:HG21	11	0.15
(1,1780)	1:150:A:VAL:HG12	1:150:A:VAL:HG23	13	0.15
(1,1780)	1:150:A:VAL:HG11	1:150:A:VAL:HG23	16	0.15
(1,1769)	1:86:A:LEU:HD23	1:78:A:PHE:HB2	9	0.15
(1,1745)	1:77:A:VAL:HG13	1:163:A:TRP:HD1	1	0.15
(1,1726)	1:20:A:VAL:HG22	1:21:A:LYS:HA	1	0.15
(1,1726)	1:20:A:VAL:HG22	1:21:A:LYS:HA	6	0.15
(1,1726)	1:20:A:VAL:HG23	1:21:A:LYS:HA	16	0.15
(1,1687)	1:111:A:ALA:HB3	1:89:A:VAL:HG23	6	0.15
(1,1683)	1:83:A:ALA:HB1	1:83:A:ALA:HA	9	0.15
(1,1672)	1:109:A:ILE:HG22	1:104:A:LYS:HB2	9	0.15
(1,1649)	1:167:A:ILE:HG21	1:127:A:VAL:HB	2	0.15
(1,1649)	1:167:A:ILE:HG21	1:127:A:VAL:HB	5	0.15
(1,1649)	1:167:A:ILE:HG21	1:127:A:VAL:HB	7	0.15
(1,1610)	1:60:A:MET:HE2	1:60:A:MET:HG3	4	0.15
(1,1610)	1:60:A:MET:HE2	1:60:A:MET:HG3	6	0.15
(1,1604)	1:149:A:MET:HE1	1:138:A:PHE:HA	10	0.15
(1,1590)	1:55:A:MET:HE1	1:55:A:MET:HG3	1	0.15
(1,1551)	1:120:A:ILE:HD11	1:100:A:PHE:HZ	16	0.15
(1,1539)	1:140:A:ILE:HD13	1:149:A:MET:HB2	13	0.15
(1,1532)	1:52:A:ILE:HD12	1:60:A:MET:HG2	4	0.15
(1,1522)	1:166:A:ILE:HD13	1:73:A:ARG:HB2	3	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1522)	1:166:A:ILE:HD12	1:73:A:ARG:HB2	17	0.15
(1,1518)	1:109:A:ILE:HD12	1:102:A:GLN:HB2	6	0.15
(1,1518)	1:109:A:ILE:HD12	1:102:A:GLN:HB2	8	0.15
(1,1508)	1:69:A:LYS:H	1:68:A:ARG:HG2	14	0.15
(1,1508)	1:69:A:LYS:H	1:68:A:ARG:HG2	16	0.15
(1,1465)	1:5:A:ASP:H	1:5:A:ASP:HA	12	0.15
(1,1460)	1:85:A:ARG:H	1:83:A:ALA:HB3	19	0.15
(1,1438)	1:172:A:ASN:H	1:173:A:THR:HB	15	0.15
(1,1438)	1:172:A:ASN:H	1:173:A:THR:HB	16	0.15
(1,1410)	1:172:A:ASN:HD22	1:168:A:GLN:HG3	2	0.15
(1,1410)	1:172:A:ASN:HD22	1:168:A:GLN:HG3	6	0.15
(1,1390)	1:184:A:SER:H	1:59:A:GLN:HG2	12	0.15
(1,1390)	1:184:A:SER:H	1:59:A:GLN:HG2	20	0.15
(1,1388)	1:165:A:GLN:HE22	1:166:A:ILE:HG12	1	0.15
(1,1366)	1:135:A:LYS:H	1:135:A:LYS:HB2	8	0.15
(1,1359)	1:69:A:LYS:H	1:40:A:LEU:HD13	4	0.15
(1,1307)	1:63:A:LYS:H	1:47:A:THR:HG22	8	0.15
(1,1301)	1:79:A:LEU:H	1:78:A:PHE:HD2	2	0.15
(1,1301)	1:79:A:LEU:H	1:78:A:PHE:HD2	3	0.15
(1,1274)	1:163:A:TRP:HE1	1:77:A:VAL:HG13	11	0.15
(1,1274)	1:163:A:TRP:HE1	1:77:A:VAL:HG13	13	0.15
(1,1241)	1:96:A:ASP:H	1:95:A:THR:HG23	8	0.15
(1,1229)	1:156:A:SER:H	1:154:A:ALA:HB2	13	0.15
(1,1225)	1:156:A:SER:H	1:156:A:SER:HB2	9	0.15
(1,1225)	1:156:A:SER:H	1:156:A:SER:HB2	13	0.15
(1,1222)	1:156:A:SER:H	1:154:A:ALA:HA	7	0.15
(1,1216)	1:118:A:THR:H	1:117:A:SER:HB2	2	0.15
(1,1207)	1:25:A:GLY:H	1:24:A:ILE:HB	7	0.15
(1,1142)	1:165:A:GLN:H	1:164:A:ILE:HG21	6	0.15
(1,1116)	1:65:A:ASP:H	1:65:A:ASP:HB3	11	0.15
(1,1110)	1:73:A:ARG:H	1:73:A:ARG:HB2	19	0.15
(1,1100)	1:41:A:ASN:H	1:37:A:LYS:HA	9	0.15
(1,1096)	1:76:A:SER:H	1:75:A:GLY:HA3	1	0.15
(1,1096)	1:76:A:SER:H	1:75:A:GLY:HA3	7	0.15
(1,1096)	1:76:A:SER:H	1:75:A:GLY:HA3	13	0.15
(1,1096)	1:76:A:SER:H	1:75:A:GLY:HA3	16	0.15
(1,1096)	1:76:A:SER:H	1:75:A:GLY:HA3	20	0.15
(1,1079)	1:123:A:LYS:H	1:123:A:LYS:HG3	17	0.15
(1,1077)	1:123:A:LYS:H	1:123:A:LYS:HB2	10	0.15
(1,1071)	1:162:A:SER:H	1:165:A:GLN:HE21	9	0.15
(1,1071)	1:162:A:SER:H	1:165:A:GLN:HE21	12	0.15
(1,1039)	1:170:A:THR:H	1:171:A:ILE:HD12	5	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1028)	1:138:A:PHE:H	1:130:A:VAL:HB	3	0.15
(1,1028)	1:138:A:PHE:H	1:130:A:VAL:HB	18	0.15
(1,1028)	1:138:A:PHE:H	1:130:A:VAL:HB	20	0.15
(1,993)	1:27:A:VAL:H	1:27:A:VAL:HG11	8	0.15
(1,993)	1:27:A:VAL:H	1:27:A:VAL:HG12	9	0.15
(1,992)	1:27:A:VAL:H	1:26:A:ALA:HB2	11	0.15
(1,985)	1:158:A:GLU:H	1:156:A:SER:HA	18	0.15
(1,960)	1:77:A:VAL:H	1:90:A:GLN:HA	5	0.15
(1,960)	1:77:A:VAL:H	1:90:A:GLN:HA	20	0.15
(1,945)	1:89:A:VAL:H	1:78:A:PHE:HD1	8	0.15
(1,945)	1:89:A:VAL:H	1:78:A:PHE:HD1	9	0.15
(1,940)	1:178:A:GLU:H	1:178:A:GLU:HA	4	0.15
(1,940)	1:178:A:GLU:H	1:178:A:GLU:HA	6	0.15
(1,940)	1:178:A:GLU:H	1:178:A:GLU:HA	7	0.15
(1,931)	1:121:A:SER:H	1:120:A:ILE:HG21	11	0.15
(1,918)	1:31:A:VAL:H	1:31:A:VAL:HB	8	0.15
(1,918)	1:31:A:VAL:H	1:31:A:VAL:HB	9	0.15
(1,918)	1:31:A:VAL:H	1:31:A:VAL:HB	13	0.15
(1,918)	1:31:A:VAL:H	1:31:A:VAL:HB	16	0.15
(1,906)	1:116:A:LYS:H	1:117:A:SER:H	16	0.15
(1,906)	1:116:A:LYS:H	1:117:A:SER:H	20	0.15
(1,897)	1:176:A:ARG:H	1:176:A:ARG:HG3	7	0.15
(1,855)	1:179:A:ASP:H	1:178:A:GLU:HB2	20	0.15
(1,853)	1:179:A:ASP:H	1:178:A:GLU:HA	5	0.15
(1,853)	1:179:A:ASP:H	1:178:A:GLU:HA	9	0.15
(1,851)	1:159:A:GLU:H	1:158:A:GLU:HB2	5	0.15
(1,842)	1:110:A:PHE:H	1:109:A:ILE:HD12	15	0.15
(1,835)	1:12:A:ASP:H	1:174:A:LEU:HA	10	0.15
(1,828)	1:86:A:LEU:H	1:86:A:LEU:HD11	1	0.15
(1,828)	1:86:A:LEU:H	1:86:A:LEU:HD13	2	0.15
(1,828)	1:86:A:LEU:H	1:86:A:LEU:HD12	4	0.15
(1,815)	1:125:A:LEU:H	1:125:A:LEU:HG	3	0.15
(1,815)	1:125:A:LEU:H	1:125:A:LEU:HG	4	0.15
(1,815)	1:125:A:LEU:H	1:125:A:LEU:HG	9	0.15
(1,815)	1:125:A:LEU:H	1:125:A:LEU:HG	15	0.15
(1,815)	1:125:A:LEU:H	1:125:A:LEU:HG	18	0.15
(1,811)	1:125:A:LEU:H	1:123:A:LYS:HA	5	0.15
(1,809)	1:163:A:TRP:H	1:164:A:ILE:HG13	1	0.15
(1,809)	1:163:A:TRP:H	1:164:A:ILE:HG13	4	0.15
(1,809)	1:163:A:TRP:H	1:164:A:ILE:HG13	6	0.15
(1,809)	1:163:A:TRP:H	1:164:A:ILE:HG13	10	0.15
(1,809)	1:163:A:TRP:H	1:164:A:ILE:HG13	13	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,809)	1:163:A:TRP:H	1:164:A:ILE:HG13	14	0.15
(1,784)	1:92:A:VAL:H	1:98:A:LEU:HD21	4	0.15
(1,776)	1:42:A:GLU:H	1:43:A:ILE:HB	11	0.15
(1,761)	1:174:A:LEU:H	1:174:A:LEU:HD12	11	0.15
(1,724)	1:19:A:LEU:H	1:18:A:SER:HA	4	0.15
(1,724)	1:19:A:LEU:H	1:18:A:SER:HA	12	0.15
(1,724)	1:19:A:LEU:H	1:18:A:SER:HA	17	0.15
(1,712)	1:74:A:ASP:H	1:71:A:LEU:HD12	4	0.15
(1,697)	1:137:A:LEU:H	1:137:A:LEU:HG	10	0.15
(1,693)	1:28:A:ASP:H	1:27:A:VAL:HB	7	0.15
(1,693)	1:28:A:ASP:H	1:27:A:VAL:HB	12	0.15
(1,693)	1:28:A:ASP:H	1:27:A:VAL:HB	14	0.15
(1,693)	1:28:A:ASP:H	1:27:A:VAL:HB	19	0.15
(1,658)	1:122:A:LEU:H	1:97:A:ILE:HB	4	0.15
(1,639)	1:52:A:ILE:H	1:110:A:PHE:HD2	2	0.15
(1,639)	1:52:A:ILE:H	1:110:A:PHE:HD2	15	0.15
(1,611)	1:81:A:ASN:H	1:86:A:LEU:HD22	12	0.15
(1,605)	1:55:A:MET:H	1:55:A:MET:HE3	16	0.15
(1,601)	1:55:A:MET:H	1:55:A:MET:HB2	1	0.15
(1,601)	1:55:A:MET:H	1:55:A:MET:HB2	15	0.15
(1,586)	1:185:A:GLU:H	1:184:A:SER:HB2	7	0.15
(1,581)	1:167:A:ILE:H	1:167:A:ILE:HB	3	0.15
(1,581)	1:167:A:ILE:H	1:167:A:ILE:HB	5	0.15
(1,581)	1:167:A:ILE:H	1:167:A:ILE:HB	7	0.15
(1,581)	1:167:A:ILE:H	1:167:A:ILE:HB	16	0.15
(1,581)	1:167:A:ILE:H	1:167:A:ILE:HB	19	0.15
(1,520)	1:8:A:VAL:HG21	1:8:A:VAL:HB	12	0.15
(1,515)	1:37:A:LYS:HD2	1:34:A:TYR:HE2	6	0.15
(1,515)	1:37:A:LYS:HD2	1:34:A:TYR:HE2	20	0.15
(1,507)	1:153:A:HIS:HE1	1:132:A:HIS:HD2	4	0.15
(1,507)	1:153:A:HIS:HE1	1:132:A:HIS:HD2	19	0.15
(1,487)	1:40:A:LEU:HG	1:39:A:ARG:HG2	4	0.15
(1,486)	1:21:A:LYS:HD2	1:30:A:LYS:HA	7	0.15
(1,457)	1:92:A:VAL:H	1:98:A:LEU:HD21	9	0.15
(1,440)	1:36:A:LYS:HE2	1:36:A:LYS:HD3	7	0.15
(1,439)	1:10:A:GLN:HB3	1:174:A:LEU:HD11	18	0.15
(1,431)	1:67:A:LYS:HE3	1:44:A:TYR:HE2	12	0.15
(1,429)	1:58:A:GLY:HA3	1:54:A:ARG:HD2	20	0.15
(1,427)	1:28:A:ASP:HA	1:30:A:LYS:HB3	17	0.15
(1,422)	1:37:A:LYS:HD2	1:37:A:LYS:HE2	1	0.15
(1,422)	1:37:A:LYS:HD3	1:37:A:LYS:HE3	4	0.15
(1,422)	1:37:A:LYS:HD3	1:37:A:LYS:HE2	7	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,422)	1:37:A:LYS:HD3	1:37:A:LYS:HE3	9	0.15
(1,422)	1:37:A:LYS:HD3	1:37:A:LYS:HE2	18	0.15
(1,408)	1:49:A:SER:HB2	1:49:A:SER:HA	13	0.15
(1,402)	1:176:A:ARG:HB3	1:176:A:ARG:HA	14	0.15
(1,391)	1:64:A:GLU:HG3	1:44:A:TYR:HE1	13	0.15
(1,385)	1:56:A:LYS:HB2	1:183:A:PRO:HA	4	0.15
(1,385)	1:56:A:LYS:HB2	1:183:A:PRO:HA	10	0.15
(1,379)	1:72:A:VAL:HA	1:71:A:LEU:HB3	11	0.15
(1,379)	1:72:A:VAL:HA	1:71:A:LEU:HB3	18	0.15
(1,371)	1:19:A:LEU:HB2	1:18:A:SER:HB2	9	0.15
(1,357)	1:34:A:TYR:HA	1:30:A:LYS:HE2	3	0.15
(1,353)	1:67:A:LYS:HE3	1:67:A:LYS:HA	18	0.15
(1,331)	1:15:A:GLN:HA	1:15:A:GLN:HG2	9	0.15
(1,310)	1:14:A:ALA:HA	1:21:A:LYS:HD3	1	0.15
(1,310)	1:14:A:ALA:HA	1:21:A:LYS:HD3	9	0.15
(1,310)	1:14:A:ALA:HA	1:21:A:LYS:HD3	11	0.15
(1,304)	1:25:A:GLY:HA2	1:27:A:VAL:HB	6	0.15
(1,304)	1:25:A:GLY:HA2	1:27:A:VAL:HB	13	0.15
(1,296)	1:19:A:LEU:HB2	1:15:A:GLN:HA	14	0.15
(1,294)	1:22:A:ASP:HB2	1:17:A:LEU:HA	16	0.15
(1,291)	1:54:A:ARG:HD2	1:54:A:ARG:HB2	8	0.15
(1,289)	1:85:A:ARG:HG3	1:85:A:ARG:HD3	1	0.15
(1,289)	1:85:A:ARG:HG3	1:85:A:ARG:HD3	3	0.15
(1,289)	1:85:A:ARG:HG3	1:85:A:ARG:HD3	7	0.15
(1,289)	1:85:A:ARG:HG3	1:85:A:ARG:HD3	10	0.15
(1,279)	1:157:A:LYS:HG2	1:157:A:LYS:HE2	2	0.15
(1,279)	1:157:A:LYS:HG2	1:157:A:LYS:HE2	5	0.15
(1,264)	1:81:A:ASN:HB2	1:83:A:ALA:HB3	19	0.15
(1,238)	1:52:A:ILE:HD12	1:60:A:MET:HG2	6	0.15
(1,238)	1:52:A:ILE:HG22	1:60:A:MET:HG2	20	0.15
(1,223)	1:159:A:GLU:HB2	1:162:A:SER:HB2	9	0.15
(1,222)	1:159:A:GLU:HB3	1:162:A:SER:HB2	15	0.15
(1,204)	1:107:A:LYS:HD3	1:107:A:LYS:HG3	2	0.15
(1,191)	1:176:A:ARG:HG2	1:176:A:ARG:HB2	8	0.15
(1,184)	1:52:A:ILE:HD13	1:52:A:ILE:HG13	16	0.15
(1,169)	1:30:A:LYS:HG3	1:21:A:LYS:HE3	3	0.15
(1,142)	1:56:A:LYS:HG2	1:56:A:LYS:HD2	4	0.15
(1,123)	1:150:A:VAL:HG21	1:79:A:LEU:HD22	5	0.15
(1,120)	1:122:A:LEU:HD22	1:122:A:LEU:HB3	2	0.15
(1,103)	1:149:A:MET:HE3	1:140:A:ILE:HG23	7	0.15
(1,103)	1:140:A:ILE:HD12	1:149:A:MET:HE3	17	0.15
(1,87)	1:9:A:GLU:H	1:8:A:VAL:HG22	2	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,77)	1:46:A:LYS:H	1:46:A:LYS:HD2	16	0.15
(1,77)	1:46:A:LYS:H	1:46:A:LYS:HG3	19	0.15
(1,76)	1:181:A:GLY:H	1:181:A:GLY:HA2	2	0.15
(1,33)	1:107:A:LYS:H	1:106:A:GLN:HG3	7	0.15
(1,27)	1:50:A:LYS:H	1:51:A:SER:HB2	5	0.15
(1,27)	1:50:A:LYS:H	1:51:A:SER:HB3	18	0.15
(1,23)	1:22:A:ASP:H	1:21:A:LYS:HG2	7	0.15
(1,22)	1:130:A:VAL:H	1:129:A:GLU:HB3	9	0.15
(1,22)	1:130:A:VAL:H	1:129:A:GLU:HB3	10	0.15
(2,24)	1:167:A:ILE:H	1:163:A:TRP:O	8	0.14
(2,22)	1:162:A:SER:H	1:159:A:GLU:O	12	0.14
(2,9)	1:93:A:LEU:H	1:73:A:ARG:O	15	0.14
(1,3528)	1:78:A:PHE:HE1	1:78:A:PHE:HB3	10	0.14
(1,3517)	1:63:A:LYS:HG2	1:44:A:TYR:HE2	10	0.14
(1,3516)	1:63:A:LYS:HE3	1:44:A:TYR:HE1	11	0.14
(1,3516)	1:63:A:LYS:HE3	1:44:A:TYR:HE1	17	0.14
(1,3491)	1:62:A:ALA:HA	1:110:A:PHE:HD2	13	0.14
(1,3488)	1:149:A:MET:HE3	1:138:A:PHE:HE2	17	0.14
(1,3486)	1:138:A:PHE:HE2	1:128:A:ARG:HB3	6	0.14
(1,3447)	1:34:A:TYR:HB2	1:34:A:TYR:HD1	1	0.14
(1,3447)	1:34:A:TYR:HB2	1:34:A:TYR:HD2	5	0.14
(1,3447)	1:34:A:TYR:HB2	1:34:A:TYR:HD2	7	0.14
(1,3447)	1:34:A:TYR:HB2	1:34:A:TYR:HD2	16	0.14
(1,3447)	1:34:A:TYR:HB2	1:34:A:TYR:HD2	17	0.14
(1,3447)	1:34:A:TYR:HB2	1:34:A:TYR:HD2	18	0.14
(1,3447)	1:34:A:TYR:HB2	1:34:A:TYR:HD2	20	0.14
(1,3423)	1:159:A:GLU:HB2	1:163:A:TRP:HD1	6	0.14
(1,3420)	1:69:A:LYS:HA	1:69:A:LYS:HD2	12	0.14
(1,3419)	1:135:A:LYS:HD3	1:135:A:LYS:HA	16	0.14
(1,3376)	1:53:A:MET:HG2	1:119:A:VAL:HB	3	0.14
(1,3376)	1:53:A:MET:HG2	1:119:A:VAL:HB	10	0.14
(1,3332)	1:76:A:SER:HB3	1:88:A:GLU:HG2	2	0.14
(1,3332)	1:76:A:SER:HB3	1:88:A:GLU:HG2	19	0.14
(1,3326)	1:50:A:LYS:HD2	1:50:A:LYS:HB2	12	0.14
(1,3259)	1:38:A:VAL:HB	1:38:A:VAL:HG21	3	0.14
(1,3259)	1:38:A:VAL:HB	1:38:A:VAL:HG23	14	0.14
(1,3259)	1:38:A:VAL:HB	1:38:A:VAL:HG21	15	0.14
(1,3242)	1:113:A:LEU:HD11	1:81:A:ASN:H	13	0.14
(1,3242)	1:113:A:LEU:HD11	1:81:A:ASN:H	16	0.14
(1,3226)	1:89:A:VAL:HG12	1:102:A:GLN:H	4	0.14
(1,3226)	1:89:A:VAL:HG12	1:102:A:GLN:H	20	0.14
(1,3202)	1:152:A:VAL:HG23	1:137:A:LEU:HG	4	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3202)	1:152:A:VAL:HG23	1:137:A:LEU:HG	8	0.14
(1,3202)	1:152:A:VAL:HG23	1:137:A:LEU:HG	18	0.14
(1,3186)	1:33:A:SER:HB2	1:33:A:SER:HA	10	0.14
(1,3186)	1:33:A:SER:HB2	1:33:A:SER:HA	14	0.14
(1,3186)	1:33:A:SER:HB2	1:33:A:SER:HA	15	0.14
(1,3186)	1:33:A:SER:HB2	1:33:A:SER:HA	17	0.14
(1,3183)	1:144:A:MET:HA	1:145:A:THR:HG22	11	0.14
(1,3174)	1:101:A:LEU:HD23	1:108:A:TYR:HD2	17	0.14
(1,3173)	1:101:A:LEU:HD23	1:110:A:PHE:HD1	2	0.14
(1,3172)	1:101:A:LEU:HD22	1:110:A:PHE:HE1	8	0.14
(1,3157)	1:22:A:ASP:HB2	1:22:A:ASP:HA	18	0.14
(1,3113)	1:80:A:LYS:HE2	1:80:A:LYS:HB2	5	0.14
(1,3113)	1:80:A:LYS:HE2	1:80:A:LYS:HB2	15	0.14
(1,3106)	1:36:A:LYS:HD2	1:36:A:LYS:HE2	6	0.14
(1,3106)	1:36:A:LYS:HD2	1:36:A:LYS:HE2	16	0.14
(1,3047)	1:54:A:ARG:HA	1:53:A:MET:HE2	13	0.14
(1,3032)	1:97:A:ILE:HG12	1:119:A:VAL:HG21	8	0.14
(1,3013)	1:156:A:SER:HA	1:135:A:LYS:HD3	6	0.14
(1,3013)	1:156:A:SER:HA	1:135:A:LYS:HD3	13	0.14
(1,2975)	1:102:A:GLN:HG2	1:109:A:ILE:HD13	15	0.14
(1,2962)	1:66:A:LEU:HG	1:65:A:ASP:HB3	10	0.14
(1,2962)	1:66:A:LEU:HG	1:65:A:ASP:HB3	11	0.14
(1,2912)	1:102:A:GLN:HA	1:89:A:VAL:HG21	9	0.14
(1,2900)	1:142:A:MET:HB2	1:126:A:ILE:HG12	13	0.14
(1,2894)	1:68:A:ARG:HB3	1:7:A:GLU:HA	10	0.14
(1,2893)	1:154:A:ALA:HB2	1:159:A:GLU:HA	4	0.14
(1,2868)	1:167:A:ILE:HA	1:170:A:THR:HG22	7	0.14
(1,2856)	1:45:A:THR:HA	1:44:A:TYR:HE1	4	0.14
(1,2855)	1:43:A:ILE:HA	1:108:A:TYR:HE2	12	0.14
(1,2855)	1:43:A:ILE:HA	1:108:A:TYR:HE2	20	0.14
(1,2843)	1:31:A:VAL:HA	1:34:A:TYR:HE1	7	0.14
(1,2841)	1:16:A:SER:HB2	1:3:A:THR:HB	3	0.14
(1,2818)	1:76:A:SER:HB3	1:78:A:PHE:HE1	2	0.14
(1,2818)	1:76:A:SER:HB3	1:78:A:PHE:HE1	3	0.14
(1,2818)	1:76:A:SER:HB3	1:78:A:PHE:HE1	5	0.14
(1,2783)	1:117:A:SER:HA	1:55:A:MET:HB3	6	0.14
(1,2760)	1:20:A:VAL:HA	1:20:A:VAL:HB	7	0.14
(1,2760)	1:20:A:VAL:HA	1:20:A:VAL:HB	8	0.14
(1,2760)	1:20:A:VAL:HA	1:20:A:VAL:HB	12	0.14
(1,2760)	1:20:A:VAL:HA	1:20:A:VAL:HB	15	0.14
(1,2760)	1:20:A:VAL:HA	1:20:A:VAL:HB	19	0.14
(1,2726)	1:127:A:VAL:HA	1:139:A:LEU:HB3	3	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2726)	1:127:A:VAL:HA	1:139:A:LEU:HB3	6	0.14
(1,2726)	1:127:A:VAL:HA	1:139:A:LEU:HB3	8	0.14
(1,2726)	1:127:A:VAL:HA	1:139:A:LEU:HB3	11	0.14
(1,2708)	1:15:A:GLN:HB3	1:15:A:GLN:HA	18	0.14
(1,2705)	1:135:A:LYS:HA	1:154:A:ALA:HB2	16	0.14
(1,2607)	1:153:A:HIS:HA	1:136:A:GLY:HA2	3	0.14
(1,2607)	1:153:A:HIS:HA	1:136:A:GLY:HA2	18	0.14
(1,2605)	1:133:A:GLU:HA	1:130:A:VAL:HG12	1	0.14
(1,2605)	1:133:A:GLU:HA	1:130:A:VAL:HG11	9	0.14
(1,2596)	1:32:A:ALA:HA	1:35:A:GLU:HB3	1	0.14
(1,2594)	1:14:A:ALA:HA	1:19:A:LEU:HB2	15	0.14
(1,2551)	1:147:A:PRO:HD2	1:142:A:MET:HG2	9	0.14
(1,2551)	1:147:A:PRO:HD2	1:142:A:MET:HG2	20	0.14
(1,2519)	1:68:A:ARG:HD3	1:68:A:ARG:HA	18	0.14
(1,2508)	1:73:A:ARG:HD2	1:166:A:ILE:HG12	11	0.14
(1,2507)	1:73:A:ARG:HD2	1:73:A:ARG:HB2	20	0.14
(1,2441)	1:146:A:ASP:HB2	1:147:A:PRO:HD3	11	0.14
(1,2411)	1:41:A:ASN:HB3	1:44:A:TYR:HB3	1	0.14
(1,2411)	1:41:A:ASN:HB3	1:44:A:TYR:HB3	11	0.14
(1,2379)	1:178:A:GLU:HG2	1:178:A:GLU:HB2	18	0.14
(1,2375)	1:178:A:GLU:HG2	1:178:A:GLU:HA	18	0.14
(1,2368)	1:134:A:GLU:HG3	1:135:A:LYS:HG3	4	0.14
(1,2366)	1:42:A:GLU:HG3	1:38:A:VAL:HG12	20	0.14
(1,2364)	1:134:A:GLU:HG2	1:157:A:LYS:HB3	9	0.14
(1,2330)	1:165:A:GLN:HG2	1:166:A:ILE:HG12	7	0.14
(1,2304)	1:123:A:LYS:HB3	1:123:A:LYS:HE2	11	0.14
(1,2292)	1:4:A:LYS:HB2	1:9:A:GLU:HA	18	0.14
(1,2279)	1:123:A:LYS:HB2	1:174:A:LEU:HD11	12	0.14
(1,2279)	1:123:A:LYS:HB2	1:174:A:LEU:HD11	20	0.14
(1,2261)	1:56:A:LYS:HG2	1:56:A:LYS:HB2	5	0.14
(1,2261)	1:56:A:LYS:HG2	1:56:A:LYS:HB2	12	0.14
(1,2261)	1:56:A:LYS:HG2	1:56:A:LYS:HB2	13	0.14
(1,2250)	1:119:A:VAL:HG21	1:53:A:MET:HG3	1	0.14
(1,2250)	1:119:A:VAL:HG22	1:53:A:MET:HG3	6	0.14
(1,2250)	1:119:A:VAL:HG22	1:53:A:MET:HG3	12	0.14
(1,2241)	1:63:A:LYS:HD3	1:63:A:LYS:HA	1	0.14
(1,2240)	1:103:A:GLU:HB3	1:108:A:TYR:HE1	18	0.14
(1,2230)	1:11:A:GLU:HB2	1:11:A:GLU:HA	9	0.14
(1,2203)	1:42:A:GLU:HB3	1:39:A:ARG:HA	11	0.14
(1,2188)	1:98:A:LEU:HD22	1:93:A:LEU:HD22	17	0.14
(1,2182)	1:80:A:LYS:HD2	1:84:A:GLY:HA2	10	0.14
(1,2155)	1:107:A:LYS:HD3	1:48:A:ASP:HA	13	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2140)	1:56:A:LYS:HD2	1:121:A:SER:HB3	17	0.14
(1,2127)	1:137:A:LEU:HD13	1:164:A:ILE:H	18	0.14
(1,2099)	1:66:A:LEU:HG	1:97:A:ILE:HG13	8	0.14
(1,2088)	1:125:A:LEU:HG	1:167:A:ILE:HG21	4	0.14
(1,2088)	1:125:A:LEU:HG	1:167:A:ILE:HG21	18	0.14
(1,2083)	1:182:A:ILE:HG12	1:182:A:ILE:HA	5	0.14
(1,2083)	1:182:A:ILE:HG12	1:182:A:ILE:HA	20	0.14
(1,2082)	1:182:A:ILE:HG13	1:182:A:ILE:HA	13	0.14
(1,2082)	1:182:A:ILE:HG13	1:182:A:ILE:HA	15	0.14
(1,2080)	1:182:A:ILE:HG13	1:123:A:LYS:HB3	1	0.14
(1,2080)	1:182:A:ILE:HG13	1:123:A:LYS:HB3	12	0.14
(1,2076)	1:71:A:LEU:HG	1:39:A:ARG:HD3	6	0.14
(1,2076)	1:71:A:LEU:HG	1:39:A:ARG:HD3	12	0.14
(1,2076)	1:71:A:LEU:HG	1:39:A:ARG:HD3	13	0.14
(1,2072)	1:98:A:LEU:HD13	1:93:A:LEU:HD23	12	0.14
(1,2051)	1:113:A:LEU:HD11	1:113:A:LEU:HD23	5	0.14
(1,2051)	1:113:A:LEU:HD13	1:113:A:LEU:HD22	6	0.14
(1,2051)	1:113:A:LEU:HD12	1:113:A:LEU:HD23	17	0.14
(1,2034)	1:123:A:LYS:HG2	1:123:A:LYS:HB3	2	0.14
(1,2033)	1:123:A:LYS:HG3	1:123:A:LYS:HB3	7	0.14
(1,1989)	1:174:A:LEU:HD13	1:123:A:LYS:HG3	4	0.14
(1,1989)	1:174:A:LEU:HD13	1:123:A:LYS:HG3	5	0.14
(1,1976)	1:101:A:LEU:HD11	1:101:A:LEU:HA	4	0.14
(1,1976)	1:101:A:LEU:HD13	1:101:A:LEU:HA	6	0.14
(1,1976)	1:101:A:LEU:HD11	1:101:A:LEU:HA	10	0.14
(1,1976)	1:101:A:LEU:HD12	1:101:A:LEU:HA	11	0.14
(1,1976)	1:101:A:LEU:HD13	1:101:A:LEU:HA	14	0.14
(1,1976)	1:101:A:LEU:HD11	1:101:A:LEU:HA	15	0.14
(1,1976)	1:101:A:LEU:HD13	1:101:A:LEU:HA	17	0.14
(1,1959)	1:66:A:LEU:HD11	1:66:A:LEU:HA	15	0.14
(1,1959)	1:66:A:LEU:HD11	1:66:A:LEU:HA	16	0.14
(1,1950)	1:94:A:LEU:HD23	1:71:A:LEU:HA	1	0.14
(1,1942)	1:37:A:LYS:HG3	1:37:A:LYS:HA	6	0.14
(1,1942)	1:37:A:LYS:HG3	1:37:A:LYS:HA	15	0.14
(1,1935)	1:56:A:LYS:HG2	1:121:A:SER:HB2	13	0.14
(1,1927)	1:19:A:LEU:HD12	1:11:A:GLU:HA	11	0.14
(1,1921)	1:67:A:LYS:HG2	1:44:A:TYR:HE2	5	0.14
(1,1921)	1:67:A:LYS:HG2	1:44:A:TYR:HE2	9	0.14
(1,1921)	1:67:A:LYS:HG2	1:44:A:TYR:HE2	10	0.14
(1,1897)	1:86:A:LEU:HD21	1:86:A:LEU:HD13	8	0.14
(1,1897)	1:86:A:LEU:HD22	1:86:A:LEU:HD12	13	0.14
(1,1889)	1:174:A:LEU:HD21	1:174:A:LEU:HG	4	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1889)	1:174:A:LEU:HD21	1:174:A:LEU:HG	7	0.14
(1,1889)	1:174:A:LEU:HD22	1:174:A:LEU:HG	11	0.14
(1,1889)	1:174:A:LEU:HD23	1:174:A:LEU:HG	13	0.14
(1,1889)	1:174:A:LEU:HD22	1:174:A:LEU:HG	19	0.14
(1,1889)	1:174:A:LEU:HD23	1:174:A:LEU:HG	20	0.14
(1,1888)	1:174:A:LEU:HD21	1:123:A:LYS:HG2	5	0.14
(1,1888)	1:174:A:LEU:HD23	1:123:A:LYS:HG2	19	0.14
(1,1870)	1:87:A:LYS:HG2	1:87:A:LYS:HE2	3	0.14
(1,1870)	1:87:A:LYS:HG2	1:87:A:LYS:HE2	6	0.14
(1,1870)	1:87:A:LYS:HG2	1:87:A:LYS:HE2	8	0.14
(1,1870)	1:87:A:LYS:HG2	1:87:A:LYS:HE2	10	0.14
(1,1870)	1:87:A:LYS:HG2	1:87:A:LYS:HE2	16	0.14
(1,1870)	1:87:A:LYS:HG2	1:87:A:LYS:HE2	17	0.14
(1,1863)	1:95:A:THR:HG21	1:70:A:LYS:HG2	18	0.14
(1,1846)	1:170:A:THR:HG21	1:72:A:VAL:HG12	11	0.14
(1,1815)	1:173:A:THR:HG23	1:176:A:ARG:HB2	13	0.14
(1,1811)	1:38:A:VAL:HG11	1:38:A:VAL:HG22	14	0.14
(1,1792)	1:122:A:LEU:HD13	1:122:A:LEU:HA	1	0.14
(1,1769)	1:86:A:LEU:HD21	1:78:A:PHE:HB2	14	0.14
(1,1690)	1:111:A:ALA:HB2	1:102:A:GLN:HB3	1	0.14
(1,1690)	1:111:A:ALA:HB3	1:102:A:GLN:HB3	12	0.14
(1,1690)	1:111:A:ALA:HB3	1:102:A:GLN:HB3	13	0.14
(1,1690)	1:111:A:ALA:HB1	1:102:A:GLN:HB3	19	0.14
(1,1628)	1:24:A:ILE:HG23	1:24:A:ILE:HD11	5	0.14
(1,1628)	1:24:A:ILE:HG21	1:24:A:ILE:HD11	6	0.14
(1,1628)	1:24:A:ILE:HG21	1:24:A:ILE:HD12	14	0.14
(1,1628)	1:24:A:ILE:HG22	1:24:A:ILE:HD13	16	0.14
(1,1611)	1:182:A:ILE:HG23	1:182:A:ILE:HB	13	0.14
(1,1610)	1:60:A:MET:HE2	1:60:A:MET:HG3	20	0.14
(1,1590)	1:55:A:MET:HE1	1:55:A:MET:HG3	16	0.14
(1,1584)	1:164:A:ILE:HG22	1:165:A:GLN:HB3	17	0.14
(1,1582)	1:164:A:ILE:HG22	1:129:A:GLU:HG2	6	0.14
(1,1579)	1:182:A:ILE:HD12	1:185:A:GLU:HA	10	0.14
(1,1554)	1:97:A:ILE:HD12	1:94:A:LEU:HD21	18	0.14
(1,1551)	1:120:A:ILE:HD12	1:100:A:PHE:HZ	17	0.14
(1,1532)	1:52:A:ILE:HD11	1:60:A:MET:HG2	10	0.14
(1,1522)	1:166:A:ILE:HD12	1:73:A:ARG:HB2	11	0.14
(1,1517)	1:109:A:ILE:HD12	1:111:A:ALA:HA	13	0.14
(1,1517)	1:109:A:ILE:HD13	1:111:A:ALA:HA	20	0.14
(1,1508)	1:69:A:LYS:H	1:68:A:ARG:HG2	10	0.14
(1,1503)	1:23:A:VAL:H	1:27:A:VAL:HB	1	0.14
(1,1503)	1:23:A:VAL:H	1:27:A:VAL:HB	18	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1471)	1:37:A:LYS:H	1:37:A:LYS:HG3	2	0.14
(1,1467)	1:10:A:GLN:H	1:10:A:GLN:HB2	17	0.14
(1,1438)	1:172:A:ASN:H	1:173:A:THR:HB	8	0.14
(1,1438)	1:172:A:ASN:H	1:173:A:THR:HB	9	0.14
(1,1438)	1:172:A:ASN:H	1:173:A:THR:HB	18	0.14
(1,1410)	1:172:A:ASN:HD22	1:168:A:GLN:HG3	16	0.14
(1,1406)	1:172:A:ASN:HD22	1:172:A:ASN:HA	4	0.14
(1,1400)	1:69:A:LYS:H	1:68:A:ARG:HB3	1	0.14
(1,1390)	1:184:A:SER:H	1:59:A:GLN:HG2	11	0.14
(1,1388)	1:165:A:GLN:HE22	1:166:A:ILE:HG12	3	0.14
(1,1369)	1:135:A:LYS:H	1:133:A:GLU:HA	11	0.14
(1,1366)	1:135:A:LYS:H	1:135:A:LYS:HB2	10	0.14
(1,1366)	1:135:A:LYS:H	1:135:A:LYS:HB2	12	0.14
(1,1364)	1:135:A:LYS:H	1:135:A:LYS:HG3	12	0.14
(1,1359)	1:69:A:LYS:H	1:40:A:LEU:HD12	6	0.14
(1,1307)	1:63:A:LYS:H	1:47:A:THR:HG22	6	0.14
(1,1265)	1:95:A:THR:H	1:94:A:LEU:HB2	19	0.14
(1,1241)	1:96:A:ASP:H	1:95:A:THR:HG22	10	0.14
(1,1222)	1:156:A:SER:H	1:154:A:ALA:HA	18	0.14
(1,1207)	1:25:A:GLY:H	1:24:A:ILE:HB	9	0.14
(1,1100)	1:41:A:ASN:H	1:37:A:LYS:HA	12	0.14
(1,1096)	1:76:A:SER:H	1:75:A:GLY:HA3	3	0.14
(1,1096)	1:76:A:SER:H	1:75:A:GLY:HA3	5	0.14
(1,1096)	1:76:A:SER:H	1:75:A:GLY:HA3	8	0.14
(1,1096)	1:76:A:SER:H	1:75:A:GLY:HA3	9	0.14
(1,1096)	1:76:A:SER:H	1:75:A:GLY:HA3	14	0.14
(1,1077)	1:123:A:LYS:H	1:123:A:LYS:HB2	5	0.14
(1,1077)	1:123:A:LYS:H	1:123:A:LYS:HB2	17	0.14
(1,1077)	1:123:A:LYS:H	1:123:A:LYS:HB2	20	0.14
(1,1074)	1:162:A:SER:H	1:161:A:ASN:HB3	3	0.14
(1,1074)	1:162:A:SER:H	1:161:A:ASN:HB3	5	0.14
(1,1074)	1:162:A:SER:H	1:161:A:ASN:HB3	6	0.14
(1,1071)	1:162:A:SER:H	1:165:A:GLN:HE21	11	0.14
(1,1039)	1:170:A:THR:H	1:171:A:ILE:HD12	19	0.14
(1,1028)	1:138:A:PHE:H	1:130:A:VAL:HB	2	0.14
(1,1028)	1:138:A:PHE:H	1:130:A:VAL:HB	8	0.14
(1,1016)	1:161:A:ASN:H	1:158:A:GLU:HA	12	0.14
(1,1016)	1:161:A:ASN:H	1:158:A:GLU:HA	18	0.14
(1,993)	1:27:A:VAL:H	1:27:A:VAL:HG13	17	0.14
(1,960)	1:77:A:VAL:H	1:90:A:GLN:HA	7	0.14
(1,945)	1:89:A:VAL:H	1:78:A:PHE:HD1	5	0.14
(1,945)	1:89:A:VAL:H	1:78:A:PHE:HD1	14	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,945)	1:89:A:VAL:H	1:78:A:PHE:HD1	15	0.14
(1,940)	1:178:A:GLU:H	1:178:A:GLU:HA	14	0.14
(1,940)	1:178:A:GLU:H	1:178:A:GLU:HA	19	0.14
(1,918)	1:31:A:VAL:H	1:31:A:VAL:HB	2	0.14
(1,918)	1:31:A:VAL:H	1:31:A:VAL:HB	11	0.14
(1,918)	1:31:A:VAL:H	1:31:A:VAL:HB	17	0.14
(1,906)	1:116:A:LYS:H	1:117:A:SER:H	10	0.14
(1,870)	1:38:A:VAL:H	1:38:A:VAL:HG13	18	0.14
(1,853)	1:179:A:ASP:H	1:178:A:GLU:HA	3	0.14
(1,851)	1:159:A:GLU:H	1:158:A:GLU:HB2	7	0.14
(1,841)	1:110:A:PHE:H	1:109:A:ILE:HG21	18	0.14
(1,828)	1:86:A:LEU:H	1:86:A:LEU:HD12	6	0.14
(1,820)	1:86:A:LEU:H	1:85:A:ARG:H	8	0.14
(1,815)	1:125:A:LEU:H	1:125:A:LEU:HG	5	0.14
(1,815)	1:125:A:LEU:H	1:125:A:LEU:HG	11	0.14
(1,815)	1:125:A:LEU:H	1:125:A:LEU:HG	14	0.14
(1,815)	1:125:A:LEU:H	1:125:A:LEU:HG	19	0.14
(1,809)	1:163:A:TRP:H	1:164:A:ILE:HG13	3	0.14
(1,809)	1:163:A:TRP:H	1:164:A:ILE:HG13	8	0.14
(1,809)	1:163:A:TRP:H	1:164:A:ILE:HG13	11	0.14
(1,809)	1:163:A:TRP:H	1:164:A:ILE:HG13	12	0.14
(1,809)	1:163:A:TRP:H	1:164:A:ILE:HG13	15	0.14
(1,809)	1:163:A:TRP:H	1:164:A:ILE:HG13	19	0.14
(1,809)	1:163:A:TRP:H	1:164:A:ILE:HG13	20	0.14
(1,795)	1:11:A:GLU:H	1:10:A:GLN:HB3	6	0.14
(1,786)	1:87:A:LYS:H	1:87:A:LYS:HB2	19	0.14
(1,777)	1:92:A:VAL:H	1:100:A:PHE:HD1	3	0.14
(1,777)	1:92:A:VAL:H	1:100:A:PHE:HD1	15	0.14
(1,777)	1:92:A:VAL:H	1:100:A:PHE:HD1	18	0.14
(1,776)	1:42:A:GLU:H	1:43:A:ILE:HB	6	0.14
(1,776)	1:42:A:GLU:H	1:43:A:ILE:HB	16	0.14
(1,767)	1:14:A:ALA:H	1:14:A:ALA:HA	13	0.14
(1,761)	1:174:A:LEU:H	1:174:A:LEU:HD11	6	0.14
(1,761)	1:174:A:LEU:H	1:174:A:LEU:HD11	16	0.14
(1,709)	1:74:A:ASP:H	1:73:A:ARG:HB3	14	0.14
(1,709)	1:74:A:ASP:H	1:73:A:ARG:HB3	19	0.14
(1,697)	1:137:A:LEU:H	1:137:A:LEU:HG	9	0.14
(1,697)	1:137:A:LEU:H	1:137:A:LEU:HG	18	0.14
(1,693)	1:28:A:ASP:H	1:27:A:VAL:HB	2	0.14
(1,693)	1:28:A:ASP:H	1:27:A:VAL:HB	5	0.14
(1,693)	1:28:A:ASP:H	1:27:A:VAL:HB	6	0.14
(1,693)	1:28:A:ASP:H	1:27:A:VAL:HB	9	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,693)	1:28:A:ASP:H	1:27:A:VAL:HB	13	0.14
(1,693)	1:28:A:ASP:H	1:27:A:VAL:HB	20	0.14
(1,665)	1:24:A:ILE:H	1:24:A:ILE:HG12	9	0.14
(1,663)	1:24:A:ILE:H	1:23:A:VAL:H	7	0.14
(1,639)	1:52:A:ILE:H	1:110:A:PHE:HD2	12	0.14
(1,639)	1:52:A:ILE:H	1:110:A:PHE:HD2	17	0.14
(1,639)	1:52:A:ILE:H	1:110:A:PHE:HD2	19	0.14
(1,611)	1:81:A:ASN:H	1:86:A:LEU:HD21	4	0.14
(1,601)	1:55:A:MET:H	1:55:A:MET:HB2	6	0.14
(1,601)	1:55:A:MET:H	1:55:A:MET:HB2	10	0.14
(1,601)	1:55:A:MET:H	1:55:A:MET:HB2	18	0.14
(1,584)	1:185:A:GLU:H	1:184:A:SER:HA	18	0.14
(1,582)	1:167:A:ILE:H	1:127:A:VAL:HG13	2	0.14
(1,582)	1:167:A:ILE:H	1:127:A:VAL:HG11	13	0.14
(1,581)	1:167:A:ILE:H	1:167:A:ILE:HB	1	0.14
(1,581)	1:167:A:ILE:H	1:167:A:ILE:HB	2	0.14
(1,581)	1:167:A:ILE:H	1:167:A:ILE:HB	4	0.14
(1,581)	1:167:A:ILE:H	1:167:A:ILE:HB	6	0.14
(1,581)	1:167:A:ILE:H	1:167:A:ILE:HB	9	0.14
(1,581)	1:167:A:ILE:H	1:167:A:ILE:HB	10	0.14
(1,581)	1:167:A:ILE:H	1:167:A:ILE:HB	11	0.14
(1,581)	1:167:A:ILE:H	1:167:A:ILE:HB	12	0.14
(1,581)	1:167:A:ILE:H	1:167:A:ILE:HB	17	0.14
(1,581)	1:167:A:ILE:H	1:167:A:ILE:HB	20	0.14
(1,564)	1:104:A:LYS:H	1:103:A:GLU:HG3	8	0.14
(1,555)	1:93:A:LEU:H	1:163:A:TRP:HZ2	3	0.14
(1,555)	1:93:A:LEU:H	1:163:A:TRP:HZ2	4	0.14
(1,555)	1:93:A:LEU:H	1:163:A:TRP:HZ2	14	0.14
(1,520)	1:20:A:VAL:HG23	1:20:A:VAL:HB	4	0.14
(1,520)	1:8:A:VAL:HG21	1:8:A:VAL:HB	15	0.14
(1,515)	1:37:A:LYS:HD2	1:34:A:TYR:HE1	8	0.14
(1,499)	1:21:A:LYS:HD2	1:33:A:SER:HB2	16	0.14
(1,492)	1:95:A:THR:HG22	1:10:A:GLN:HB2	11	0.14
(1,489)	1:70:A:LYS:HB3	1:36:A:LYS:HE2	11	0.14
(1,487)	1:40:A:LEU:HG	1:39:A:ARG:HG2	14	0.14
(1,487)	1:40:A:LEU:HG	1:39:A:ARG:HG2	19	0.14
(1,486)	1:21:A:LYS:HD2	1:30:A:LYS:HA	18	0.14
(1,457)	1:92:A:VAL:H	1:98:A:LEU:HD22	7	0.14
(1,446)	1:22:A:ASP:HA	1:21:A:LYS:HG3	2	0.14
(1,445)	1:70:A:LYS:HA	1:70:A:LYS:HD2	7	0.14
(1,440)	1:36:A:LYS:HE2	1:36:A:LYS:HD3	2	0.14
(1,437)	1:37:A:LYS:HB3	1:34:A:TYR:HE2	6	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,436)	1:18:A:SER:HB2	1:19:A:LEU:HG	15	0.14
(1,422)	1:37:A:LYS:HD3	1:37:A:LYS:HE2	8	0.14
(1,422)	1:37:A:LYS:HD3	1:37:A:LYS:HE2	10	0.14
(1,422)	1:37:A:LYS:HD2	1:37:A:LYS:HE2	13	0.14
(1,422)	1:37:A:LYS:HD3	1:37:A:LYS:HE2	17	0.14
(1,408)	1:49:A:SER:HB2	1:49:A:SER:HA	16	0.14
(1,402)	1:176:A:ARG:HB3	1:176:A:ARG:HA	2	0.14
(1,402)	1:176:A:ARG:HB2	1:176:A:ARG:HA	4	0.14
(1,402)	1:176:A:ARG:HB3	1:176:A:ARG:HA	8	0.14
(1,402)	1:176:A:ARG:HB3	1:176:A:ARG:HA	9	0.14
(1,402)	1:176:A:ARG:HB3	1:176:A:ARG:HA	12	0.14
(1,402)	1:176:A:ARG:HB3	1:176:A:ARG:HA	15	0.14
(1,402)	1:176:A:ARG:HB3	1:176:A:ARG:HA	17	0.14
(1,402)	1:176:A:ARG:HB3	1:176:A:ARG:HA	18	0.14
(1,402)	1:176:A:ARG:HB3	1:176:A:ARG:HA	20	0.14
(1,379)	1:72:A:VAL:HA	1:71:A:LEU:HB3	3	0.14
(1,379)	1:72:A:VAL:HA	1:71:A:LEU:HB3	6	0.14
(1,379)	1:72:A:VAL:HA	1:71:A:LEU:HB3	14	0.14
(1,374)	1:33:A:SER:HB2	1:30:A:LYS:HE2	5	0.14
(1,357)	1:34:A:TYR:HA	1:30:A:LYS:HE2	5	0.14
(1,357)	1:34:A:TYR:HA	1:30:A:LYS:HE2	16	0.14
(1,345)	1:159:A:GLU:HG2	1:162:A:SER:HB2	14	0.14
(1,339)	1:157:A:LYS:HA	1:134:A:GLU:HB2	20	0.14
(1,319)	1:22:A:ASP:HA	1:23:A:VAL:HG13	12	0.14
(1,319)	1:22:A:ASP:HA	1:23:A:VAL:HG13	15	0.14
(1,291)	1:54:A:ARG:HD3	1:54:A:ARG:HB2	1	0.14
(1,291)	1:54:A:ARG:HD2	1:54:A:ARG:HB2	3	0.14
(1,291)	1:54:A:ARG:HD3	1:54:A:ARG:HB2	10	0.14
(1,282)	1:37:A:LYS:HE3	1:67:A:LYS:HG2	14	0.14
(1,269)	1:5:A:ASP:HB2	1:8:A:VAL:HG23	18	0.14
(1,264)	1:81:A:ASN:HB2	1:83:A:ALA:HB1	15	0.14
(1,241)	1:10:A:GLN:HB2	1:10:A:GLN:HG2	7	0.14
(1,222)	1:159:A:GLU:HB3	1:162:A:SER:HB2	6	0.14
(1,222)	1:159:A:GLU:HB3	1:162:A:SER:HB3	11	0.14
(1,215)	1:15:A:GLN:HB3	1:15:A:GLN:HG3	15	0.14
(1,191)	1:176:A:ARG:HG2	1:176:A:ARG:HB2	12	0.14
(1,191)	1:176:A:ARG:HG2	1:176:A:ARG:HB2	19	0.14
(1,169)	1:30:A:LYS:HG3	1:21:A:LYS:HE3	10	0.14
(1,161)	1:71:A:LEU:HD11	1:93:A:LEU:H	5	0.14
(1,161)	1:71:A:LEU:HD13	1:93:A:LEU:H	17	0.14
(1,140)	1:70:A:LYS:HG3	1:70:A:LYS:HD2	16	0.14
(1,126)	1:95:A:THR:HG23	1:70:A:LYS:HD3	15	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,103)	1:140:A:ILE:HD13	1:149:A:MET:HE2	15	0.14
(1,85)	1:142:A:MET:H	1:141:A:SER:HB2	7	0.14
(1,77)	1:46:A:LYS:H	1:46:A:LYS:HD2	1	0.14
(1,72)	1:39:A:ARG:H	1:39:A:ARG:HB3	9	0.14
(1,57)	1:75:A:GLY:H	1:77:A:VAL:HG22	4	0.14
(1,46)	1:175:A:ASN:H	1:174:A:LEU:HG	4	0.14
(1,24)	1:7:A:GLU:H	1:9:A:GLU:HG2	9	0.14
(1,22)	1:130:A:VAL:H	1:129:A:GLU:HB3	19	0.14
(1,13)	1:26:A:ALA:H	1:25:A:GLY:HA3	8	0.14
(1,11)	1:98:A:LEU:H	1:97:A:ILE:HG21	16	0.14
(2,24)	1:167:A:ILE:H	1:163:A:TRP:O	2	0.13
(2,16)	1:137:A:LEU:H	1:135:A:LYS:O	6	0.13
(2,11)	1:97:A:ILE:H	1:94:A:LEU:O	9	0.13
(1,3512)	1:101:A:LEU:HD13	1:108:A:TYR:HE2	6	0.13
(1,3503)	1:78:A:PHE:HE1	1:78:A:PHE:H	1	0.13
(1,3491)	1:62:A:ALA:HA	1:110:A:PHE:HD2	20	0.13
(1,3455)	1:133:A:GLU:HG2	1:153:A:HIS:HE1	11	0.13
(1,3455)	1:133:A:GLU:HG2	1:153:A:HIS:HE1	20	0.13
(1,3447)	1:34:A:TYR:HB2	1:34:A:TYR:HD2	3	0.13
(1,3447)	1:34:A:TYR:HB2	1:34:A:TYR:HD2	6	0.13
(1,3447)	1:34:A:TYR:HB2	1:34:A:TYR:HD2	10	0.13
(1,3447)	1:34:A:TYR:HB2	1:34:A:TYR:HD2	11	0.13
(1,3447)	1:34:A:TYR:HB2	1:34:A:TYR:HD2	12	0.13
(1,3447)	1:34:A:TYR:HB2	1:34:A:TYR:HD2	15	0.13
(1,3423)	1:159:A:GLU:HB2	1:163:A:TRP:HD1	1	0.13
(1,3423)	1:159:A:GLU:HB2	1:163:A:TRP:HD1	5	0.13
(1,3423)	1:159:A:GLU:HB2	1:163:A:TRP:HD1	8	0.13
(1,3423)	1:159:A:GLU:HB2	1:163:A:TRP:HD1	16	0.13
(1,3394)	1:134:A:GLU:HG2	1:157:A:LYS:HG3	20	0.13
(1,3381)	1:67:A:LYS:HA	1:40:A:LEU:HD13	12	0.13
(1,3376)	1:53:A:MET:HG2	1:119:A:VAL:HB	20	0.13
(1,3332)	1:76:A:SER:HB3	1:88:A:GLU:HG2	3	0.13
(1,3301)	1:154:A:ALA:HB2	1:163:A:TRP:HD1	13	0.13
(1,3259)	1:38:A:VAL:HB	1:38:A:VAL:HG23	1	0.13
(1,3247)	1:2:A:MET:HG3	1:2:A:MET:HB3	10	0.13
(1,3226)	1:89:A:VAL:HG13	1:102:A:GLN:H	14	0.13
(1,3213)	1:174:A:LEU:HD22	1:174:A:LEU:HB2	4	0.13
(1,3213)	1:174:A:LEU:HD23	1:174:A:LEU:HB2	10	0.13
(1,3213)	1:174:A:LEU:HD22	1:174:A:LEU:HB2	13	0.13
(1,3213)	1:174:A:LEU:HD23	1:174:A:LEU:HB2	17	0.13
(1,3213)	1:174:A:LEU:HD23	1:174:A:LEU:HB2	19	0.13
(1,3190)	1:36:A:LYS:HD2	1:33:A:SER:HA	15	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3190)	1:36:A:LYS:HD2	1:33:A:SER:HA	19	0.13
(1,3187)	1:33:A:SER:HA	1:36:A:LYS:HB2	6	0.13
(1,3183)	1:144:A:MET:HA	1:145:A:THR:HG23	9	0.13
(1,3183)	1:144:A:MET:HA	1:145:A:THR:HG21	10	0.13
(1,3174)	1:101:A:LEU:HD21	1:108:A:TYR:HD2	8	0.13
(1,3173)	1:101:A:LEU:HD21	1:110:A:PHE:HD1	19	0.13
(1,3157)	1:22:A:ASP:HB2	1:22:A:ASP:HA	14	0.13
(1,3157)	1:22:A:ASP:HB2	1:22:A:ASP:HA	16	0.13
(1,3144)	1:34:A:TYR:HB2	1:31:A:VAL:HG21	8	0.13
(1,3106)	1:36:A:LYS:HD2	1:36:A:LYS:HE2	15	0.13
(1,3078)	1:134:A:GLU:HG3	1:134:A:GLU:HA	15	0.13
(1,3047)	1:54:A:ARG:HA	1:53:A:MET:HE2	9	0.13
(1,3046)	1:54:A:ARG:HA	1:59:A:GLN:HG2	2	0.13
(1,3046)	1:54:A:ARG:HA	1:59:A:GLN:HG2	4	0.13
(1,3030)	1:69:A:LYS:HE2	1:97:A:ILE:H	7	0.13
(1,3030)	1:69:A:LYS:HE2	1:97:A:ILE:H	15	0.13
(1,3026)	1:55:A:MET:HG2	1:55:A:MET:HE3	17	0.13
(1,3013)	1:156:A:SER:HA	1:135:A:LYS:HD3	12	0.13
(1,3013)	1:156:A:SER:HA	1:135:A:LYS:HD3	15	0.13
(1,2962)	1:66:A:LEU:HG	1:65:A:ASP:HB3	2	0.13
(1,2962)	1:66:A:LEU:HG	1:65:A:ASP:HB3	3	0.13
(1,2962)	1:66:A:LEU:HG	1:65:A:ASP:HB3	9	0.13
(1,2962)	1:66:A:LEU:HG	1:65:A:ASP:HB3	12	0.13
(1,2962)	1:66:A:LEU:HG	1:65:A:ASP:HB3	17	0.13
(1,2951)	1:144:A:MET:HE3	1:144:A:MET:HA	1	0.13
(1,2948)	1:53:A:MET:HE1	1:110:A:PHE:HE1	11	0.13
(1,2929)	1:166:A:ILE:HB	1:169:A:ASP:HB3	12	0.13
(1,2929)	1:166:A:ILE:HB	1:169:A:ASP:HB3	18	0.13
(1,2912)	1:102:A:GLN:HA	1:89:A:VAL:HG21	2	0.13
(1,2912)	1:102:A:GLN:HA	1:89:A:VAL:HG23	6	0.13
(1,2893)	1:154:A:ALA:HB1	1:159:A:GLU:HA	9	0.13
(1,2889)	1:111:A:ALA:HB2	1:100:A:PHE:HA	5	0.13
(1,2886)	1:169:A:ASP:HA	1:172:A:ASN:HB2	6	0.13
(1,2886)	1:169:A:ASP:HA	1:172:A:ASN:HB2	7	0.13
(1,2886)	1:169:A:ASP:HA	1:172:A:ASN:HB2	13	0.13
(1,2875)	1:45:A:THR:HG23	1:45:A:THR:HB	4	0.13
(1,2875)	1:45:A:THR:HG23	1:45:A:THR:HB	10	0.13
(1,2875)	1:45:A:THR:HG21	1:45:A:THR:HB	14	0.13
(1,2875)	1:45:A:THR:HG21	1:45:A:THR:HB	15	0.13
(1,2855)	1:43:A:ILE:HA	1:108:A:TYR:HE2	5	0.13
(1,2855)	1:43:A:ILE:HA	1:108:A:TYR:HE2	8	0.13
(1,2855)	1:43:A:ILE:HA	1:108:A:TYR:HE2	9	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2855)	1:43:A:ILE:HA	1:108:A:TYR:HE2	14	0.13
(1,2855)	1:43:A:ILE:HA	1:108:A:TYR:HE2	17	0.13
(1,2841)	1:16:A:SER:HB2	1:3:A:THR:HB	17	0.13
(1,2841)	1:16:A:SER:HB2	1:3:A:THR:HB	18	0.13
(1,2832)	1:119:A:VAL:HA	1:120:A:ILE:HD12	6	0.13
(1,2812)	1:56:A:LYS:HA	1:56:A:LYS:HE2	14	0.13
(1,2809)	1:110:A:PHE:HA	1:52:A:ILE:HA	18	0.13
(1,2774)	1:77:A:VAL:HA	1:89:A:VAL:HG23	12	0.13
(1,2763)	1:67:A:LYS:HB3	1:67:A:LYS:HA	1	0.13
(1,2763)	1:67:A:LYS:HB3	1:67:A:LYS:HA	3	0.13
(1,2760)	1:20:A:VAL:HA	1:20:A:VAL:HB	3	0.13
(1,2760)	1:20:A:VAL:HA	1:20:A:VAL:HB	10	0.13
(1,2760)	1:20:A:VAL:HA	1:20:A:VAL:HB	11	0.13
(1,2760)	1:20:A:VAL:HA	1:20:A:VAL:HB	16	0.13
(1,2756)	1:63:A:LYS:HA	1:44:A:TYR:HE1	7	0.13
(1,2743)	1:67:A:LYS:HA	1:44:A:TYR:HE1	13	0.13
(1,2737)	1:134:A:GLU:HA	1:157:A:LYS:HG3	12	0.13
(1,2726)	1:127:A:VAL:HA	1:139:A:LEU:HB3	1	0.13
(1,2726)	1:127:A:VAL:HA	1:139:A:LEU:HB3	13	0.13
(1,2726)	1:127:A:VAL:HA	1:139:A:LEU:HB3	14	0.13
(1,2726)	1:127:A:VAL:HA	1:139:A:LEU:HB3	15	0.13
(1,2726)	1:127:A:VAL:HA	1:139:A:LEU:HB3	19	0.13
(1,2710)	1:178:A:GLU:HA	1:177:A:ASP:HB2	17	0.13
(1,2710)	1:178:A:GLU:HA	1:177:A:ASP:HB2	20	0.13
(1,2709)	1:4:A:LYS:HB3	1:4:A:LYS:HA	13	0.13
(1,2709)	1:4:A:LYS:HB3	1:4:A:LYS:HA	16	0.13
(1,2672)	1:106:A:GLN:HG3	1:105:A:ASP:HA	18	0.13
(1,2664)	1:68:A:ARG:HA	1:68:A:ARG:HG2	16	0.13
(1,2631)	1:80:A:LYS:HA	1:86:A:LEU:HD13	9	0.13
(1,2607)	1:153:A:HIS:HA	1:136:A:GLY:HA2	10	0.13
(1,2605)	1:133:A:GLU:HA	1:130:A:VAL:HG13	2	0.13
(1,2605)	1:133:A:GLU:HA	1:130:A:VAL:HG12	3	0.13
(1,2605)	1:133:A:GLU:HA	1:130:A:VAL:HG13	12	0.13
(1,2598)	1:32:A:ALA:HA	1:35:A:GLU:HA	10	0.13
(1,2596)	1:32:A:ALA:HA	1:35:A:GLU:HB3	19	0.13
(1,2594)	1:14:A:ALA:HA	1:19:A:LEU:HB2	8	0.13
(1,2594)	1:14:A:ALA:HA	1:19:A:LEU:HB2	9	0.13
(1,2594)	1:14:A:ALA:HA	1:19:A:LEU:HB2	10	0.13
(1,2594)	1:14:A:ALA:HA	1:19:A:LEU:HB2	12	0.13
(1,2551)	1:147:A:PRO:HD2	1:142:A:MET:HG2	2	0.13
(1,2551)	1:147:A:PRO:HD2	1:142:A:MET:HG2	17	0.13
(1,2551)	1:147:A:PRO:HD2	1:142:A:MET:HG2	18	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2542)	1:74:A:ASP:HB3	1:92:A:VAL:HG21	3	0.13
(1,2472)	1:157:A:LYS:HG2	1:157:A:LYS:HE3	5	0.13
(1,2442)	1:146:A:ASP:HB3	1:147:A:PRO:HD3	13	0.13
(1,2432)	1:63:A:LYS:HE3	1:49:A:SER:HA	19	0.13
(1,2432)	1:63:A:LYS:HE3	1:49:A:SER:HA	20	0.13
(1,2411)	1:41:A:ASN:HB3	1:44:A:TYR:HB3	7	0.13
(1,2411)	1:41:A:ASN:HB3	1:44:A:TYR:HB3	18	0.13
(1,2411)	1:41:A:ASN:HB3	1:44:A:TYR:HB3	19	0.13
(1,2404)	1:34:A:TYR:HB2	1:34:A:TYR:HE2	13	0.13
(1,2404)	1:34:A:TYR:HB2	1:34:A:TYR:HE1	14	0.13
(1,2364)	1:134:A:GLU:HG2	1:157:A:LYS:HB3	1	0.13
(1,2363)	1:42:A:GLU:HB3	1:42:A:GLU:HG3	12	0.13
(1,2353)	1:133:A:GLU:HG3	1:130:A:VAL:HG11	15	0.13
(1,2329)	1:165:A:GLN:HG3	1:166:A:ILE:HG12	12	0.13
(1,2309)	1:168:A:GLN:HB3	1:168:A:GLN:HG3	15	0.13
(1,2292)	1:4:A:LYS:HB2	1:9:A:GLU:HA	8	0.13
(1,2279)	1:123:A:LYS:HB2	1:174:A:LEU:HD13	5	0.13
(1,2266)	1:149:A:MET:HB3	1:138:A:PHE:HA	6	0.13
(1,2261)	1:56:A:LYS:HG2	1:56:A:LYS:HB2	6	0.13
(1,2240)	1:103:A:GLU:HB3	1:108:A:TYR:HE1	12	0.13
(1,2230)	1:11:A:GLU:HB2	1:11:A:GLU:HA	12	0.13
(1,2230)	1:11:A:GLU:HB2	1:11:A:GLU:HA	13	0.13
(1,2230)	1:11:A:GLU:HB2	1:11:A:GLU:HA	15	0.13
(1,2230)	1:11:A:GLU:HB2	1:11:A:GLU:HA	19	0.13
(1,2155)	1:107:A:LYS:HD3	1:48:A:ASP:HA	2	0.13
(1,2145)	1:36:A:LYS:HD2	1:71:A:LEU:HB2	5	0.13
(1,2145)	1:36:A:LYS:HD2	1:71:A:LEU:HB2	8	0.13
(1,2145)	1:36:A:LYS:HD2	1:71:A:LEU:HB2	14	0.13
(1,2119)	1:137:A:LEU:HD13	1:163:A:TRP:HB3	5	0.13
(1,2119)	1:137:A:LEU:HD13	1:163:A:TRP:HB3	7	0.13
(1,2099)	1:66:A:LEU:HG	1:97:A:ILE:HG13	13	0.13
(1,2083)	1:182:A:ILE:HG12	1:182:A:ILE:HA	2	0.13
(1,2083)	1:182:A:ILE:HG12	1:182:A:ILE:HA	16	0.13
(1,2082)	1:182:A:ILE:HG13	1:182:A:ILE:HA	9	0.13
(1,2082)	1:182:A:ILE:HG13	1:182:A:ILE:HA	10	0.13
(1,2080)	1:182:A:ILE:HG13	1:123:A:LYS:HB3	11	0.13
(1,2080)	1:182:A:ILE:HG13	1:123:A:LYS:HB3	17	0.13
(1,2080)	1:182:A:ILE:HG13	1:123:A:LYS:HB3	19	0.13
(1,2080)	1:182:A:ILE:HG13	1:123:A:LYS:HB3	20	0.13
(1,2076)	1:71:A:LEU:HG	1:39:A:ARG:HD3	3	0.13
(1,2076)	1:71:A:LEU:HG	1:39:A:ARG:HD3	15	0.13
(1,2072)	1:98:A:LEU:HD13	1:93:A:LEU:HD21	10	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2051)	1:113:A:LEU:HD12	1:113:A:LEU:HD22	12	0.13
(1,2051)	1:113:A:LEU:HD13	1:113:A:LEU:HD21	15	0.13
(1,2051)	1:113:A:LEU:HD13	1:113:A:LEU:HD22	16	0.13
(1,2051)	1:113:A:LEU:HD11	1:113:A:LEU:HD23	19	0.13
(1,2033)	1:123:A:LYS:HG3	1:123:A:LYS:HB3	8	0.13
(1,2032)	1:123:A:LYS:HG3	1:123:A:LYS:HE2	15	0.13
(1,2026)	1:37:A:LYS:HG2	1:34:A:TYR:HA	11	0.13
(1,1976)	1:101:A:LEU:HD12	1:101:A:LEU:HA	2	0.13
(1,1976)	1:101:A:LEU:HD13	1:101:A:LEU:HA	3	0.13
(1,1976)	1:101:A:LEU:HD13	1:101:A:LEU:HA	8	0.13
(1,1976)	1:101:A:LEU:HD13	1:101:A:LEU:HA	12	0.13
(1,1976)	1:101:A:LEU:HD13	1:101:A:LEU:HA	13	0.13
(1,1976)	1:101:A:LEU:HD11	1:101:A:LEU:HA	20	0.13
(1,1959)	1:66:A:LEU:HD12	1:66:A:LEU:HA	10	0.13
(1,1942)	1:37:A:LYS:HG3	1:37:A:LYS:HA	12	0.13
(1,1897)	1:86:A:LEU:HD23	1:86:A:LEU:HD11	5	0.13
(1,1897)	1:86:A:LEU:HD23	1:86:A:LEU:HD11	9	0.13
(1,1889)	1:174:A:LEU:HD23	1:174:A:LEU:HG	2	0.13
(1,1889)	1:174:A:LEU:HD23	1:174:A:LEU:HG	5	0.13
(1,1889)	1:174:A:LEU:HD21	1:174:A:LEU:HG	8	0.13
(1,1889)	1:174:A:LEU:HD22	1:174:A:LEU:HG	17	0.13
(1,1873)	1:66:A:LEU:HD21	1:66:A:LEU:HD12	4	0.13
(1,1873)	1:66:A:LEU:HD21	1:66:A:LEU:HD12	7	0.13
(1,1865)	1:95:A:THR:HG21	1:170:A:THR:HA	11	0.13
(1,1792)	1:122:A:LEU:HD12	1:122:A:LEU:HA	6	0.13
(1,1792)	1:122:A:LEU:HD12	1:122:A:LEU:HA	17	0.13
(1,1787)	1:101:A:LEU:HD23	1:66:A:LEU:HD12	7	0.13
(1,1769)	1:86:A:LEU:HD22	1:78:A:PHE:HB2	15	0.13
(1,1763)	1:99:A:VAL:HG12	1:101:A:LEU:HG	18	0.13
(1,1690)	1:111:A:ALA:HB3	1:102:A:GLN:HB3	20	0.13
(1,1683)	1:83:A:ALA:HB2	1:83:A:ALA:HA	15	0.13
(1,1668)	1:97:A:ILE:HG21	1:121:A:SER:HB3	16	0.13
(1,1649)	1:167:A:ILE:HG22	1:127:A:VAL:HB	13	0.13
(1,1628)	1:24:A:ILE:HG21	1:24:A:ILE:HD11	1	0.13
(1,1628)	1:24:A:ILE:HG23	1:24:A:ILE:HD13	4	0.13
(1,1628)	1:24:A:ILE:HG22	1:24:A:ILE:HD13	7	0.13
(1,1628)	1:24:A:ILE:HG21	1:24:A:ILE:HD11	9	0.13
(1,1628)	1:24:A:ILE:HG21	1:24:A:ILE:HD13	10	0.13
(1,1628)	1:24:A:ILE:HG21	1:24:A:ILE:HD12	11	0.13
(1,1628)	1:24:A:ILE:HG23	1:24:A:ILE:HD11	12	0.13
(1,1628)	1:24:A:ILE:HG21	1:24:A:ILE:HD13	18	0.13
(1,1628)	1:24:A:ILE:HG21	1:24:A:ILE:HD11	19	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1628)	1:24:A:ILE:HG23	1:24:A:ILE:HD12	20	0.13
(1,1611)	1:182:A:ILE:HG22	1:182:A:ILE:HB	11	0.13
(1,1611)	1:182:A:ILE:HG23	1:182:A:ILE:HB	19	0.13
(1,1604)	1:149:A:MET:HE2	1:138:A:PHE:HA	19	0.13
(1,1590)	1:55:A:MET:HE2	1:55:A:MET:HG3	11	0.13
(1,1590)	1:55:A:MET:HE1	1:55:A:MET:HG3	15	0.13
(1,1584)	1:164:A:ILE:HG21	1:165:A:GLN:HB3	2	0.13
(1,1584)	1:164:A:ILE:HG22	1:165:A:GLN:HB3	10	0.13
(1,1584)	1:164:A:ILE:HG23	1:165:A:GLN:HB3	11	0.13
(1,1548)	1:120:A:ILE:HD13	1:139:A:LEU:HB2	8	0.13
(1,1532)	1:52:A:ILE:HD12	1:60:A:MET:HG2	6	0.13
(1,1522)	1:166:A:ILE:HD11	1:73:A:ARG:HB2	8	0.13
(1,1517)	1:109:A:ILE:HD13	1:111:A:ALA:HA	16	0.13
(1,1503)	1:23:A:VAL:H	1:27:A:VAL:HB	12	0.13
(1,1503)	1:23:A:VAL:H	1:27:A:VAL:HB	16	0.13
(1,1471)	1:37:A:LYS:H	1:37:A:LYS:HG3	13	0.13
(1,1463)	1:85:A:ARG:H	1:85:A:ARG:HG3	4	0.13
(1,1425)	1:181:A:GLY:H	1:182:A:ILE:H	3	0.13
(1,1406)	1:172:A:ASN:HD22	1:172:A:ASN:HA	20	0.13
(1,1395)	1:17:A:LEU:H	1:16:A:SER:HA	19	0.13
(1,1390)	1:184:A:SER:H	1:59:A:GLN:HG2	7	0.13
(1,1390)	1:184:A:SER:H	1:59:A:GLN:HG2	8	0.13
(1,1388)	1:165:A:GLN:HE22	1:166:A:ILE:HG12	6	0.13
(1,1388)	1:165:A:GLN:HE22	1:166:A:ILE:HG12	13	0.13
(1,1367)	1:135:A:LYS:H	1:135:A:LYS:HG2	6	0.13
(1,1364)	1:135:A:LYS:H	1:135:A:LYS:HG3	8	0.13
(1,1359)	1:69:A:LYS:H	1:40:A:LEU:HD13	5	0.13
(1,1359)	1:69:A:LYS:H	1:40:A:LEU:HD12	15	0.13
(1,1354)	1:15:A:GLN:H	1:15:A:GLN:HB2	7	0.13
(1,1353)	1:15:A:GLN:H	1:15:A:GLN:HB3	18	0.13
(1,1334)	1:100:A:PHE:H	1:100:A:PHE:HD2	12	0.13
(1,1299)	1:107:A:LYS:H	1:104:A:LYS:HA	19	0.13
(1,1296)	1:67:A:LYS:H	1:69:A:LYS:HD2	8	0.13
(1,1296)	1:67:A:LYS:H	1:69:A:LYS:HD2	12	0.13
(1,1296)	1:67:A:LYS:H	1:69:A:LYS:HD2	18	0.13
(1,1296)	1:67:A:LYS:H	1:69:A:LYS:HD2	20	0.13
(1,1274)	1:163:A:TRP:HE1	1:77:A:VAL:HG11	17	0.13
(1,1222)	1:156:A:SER:H	1:154:A:ALA:HA	14	0.13
(1,1222)	1:156:A:SER:H	1:154:A:ALA:HA	16	0.13
(1,1142)	1:165:A:GLN:H	1:164:A:ILE:HG21	2	0.13
(1,1132)	1:66:A:LEU:H	1:66:A:LEU:HB3	4	0.13
(1,1116)	1:65:A:ASP:H	1:65:A:ASP:HB3	20	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1100)	1:41:A:ASN:H	1:37:A:LYS:HA	5	0.13
(1,1096)	1:76:A:SER:H	1:75:A:GLY:HA3	2	0.13
(1,1096)	1:76:A:SER:H	1:75:A:GLY:HA3	4	0.13
(1,1096)	1:76:A:SER:H	1:75:A:GLY:HA3	11	0.13
(1,1096)	1:76:A:SER:H	1:75:A:GLY:HA3	19	0.13
(1,1079)	1:123:A:LYS:H	1:123:A:LYS:HG3	9	0.13
(1,1079)	1:123:A:LYS:H	1:123:A:LYS:HG3	13	0.13
(1,1077)	1:123:A:LYS:H	1:123:A:LYS:HB2	15	0.13
(1,1070)	1:162:A:SER:H	1:161:A:ASN:HD21	8	0.13
(1,1039)	1:170:A:THR:H	1:171:A:ILE:HD13	10	0.13
(1,945)	1:89:A:VAL:H	1:78:A:PHE:HD1	2	0.13
(1,940)	1:178:A:GLU:H	1:178:A:GLU:HA	1	0.13
(1,940)	1:178:A:GLU:H	1:178:A:GLU:HA	2	0.13
(1,940)	1:178:A:GLU:H	1:178:A:GLU:HA	10	0.13
(1,914)	1:50:A:LYS:H	1:50:A:LYS:HG3	4	0.13
(1,855)	1:179:A:ASP:H	1:178:A:GLU:HB2	17	0.13
(1,851)	1:159:A:GLU:H	1:158:A:GLU:HB2	1	0.13
(1,851)	1:159:A:GLU:H	1:158:A:GLU:HB2	16	0.13
(1,841)	1:110:A:PHE:H	1:109:A:ILE:HG21	13	0.13
(1,841)	1:110:A:PHE:H	1:109:A:ILE:HG21	19	0.13
(1,835)	1:12:A:ASP:H	1:174:A:LEU:HA	19	0.13
(1,828)	1:86:A:LEU:H	1:86:A:LEU:HD12	7	0.13
(1,811)	1:125:A:LEU:H	1:123:A:LYS:HA	17	0.13
(1,809)	1:163:A:TRP:H	1:164:A:ILE:HG13	5	0.13
(1,809)	1:163:A:TRP:H	1:164:A:ILE:HG13	7	0.13
(1,809)	1:163:A:TRP:H	1:164:A:ILE:HG13	9	0.13
(1,809)	1:163:A:TRP:H	1:164:A:ILE:HG13	16	0.13
(1,809)	1:163:A:TRP:H	1:164:A:ILE:HG13	18	0.13
(1,776)	1:42:A:GLU:H	1:43:A:ILE:HB	10	0.13
(1,776)	1:42:A:GLU:H	1:43:A:ILE:HB	12	0.13
(1,776)	1:42:A:GLU:H	1:43:A:ILE:HB	14	0.13
(1,776)	1:42:A:GLU:H	1:43:A:ILE:HB	15	0.13
(1,723)	1:19:A:LEU:H	1:20:A:VAL:H	13	0.13
(1,709)	1:74:A:ASP:H	1:73:A:ARG:HB3	6	0.13
(1,697)	1:137:A:LEU:H	1:137:A:LEU:HG	11	0.13
(1,693)	1:28:A:ASP:H	1:27:A:VAL:HB	10	0.13
(1,693)	1:28:A:ASP:H	1:27:A:VAL:HB	16	0.13
(1,693)	1:28:A:ASP:H	1:27:A:VAL:HB	17	0.13
(1,693)	1:28:A:ASP:H	1:27:A:VAL:HB	18	0.13
(1,679)	1:150:A:VAL:H	1:150:A:VAL:HG11	12	0.13
(1,665)	1:24:A:ILE:H	1:24:A:ILE:HG12	11	0.13
(1,641)	1:52:A:ILE:H	1:51:A:SER:HA	18	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,639)	1:52:A:ILE:H	1:110:A:PHE:HD2	1	0.13
(1,601)	1:55:A:MET:H	1:55:A:MET:HB2	12	0.13
(1,586)	1:185:A:GLU:H	1:184:A:SER:HB2	4	0.13
(1,582)	1:167:A:ILE:H	1:127:A:VAL:HG12	11	0.13
(1,581)	1:167:A:ILE:H	1:167:A:ILE:HB	13	0.13
(1,581)	1:167:A:ILE:H	1:167:A:ILE:HB	14	0.13
(1,581)	1:167:A:ILE:H	1:167:A:ILE:HB	15	0.13
(1,579)	1:167:A:ILE:H	1:163:A:TRP:HA	20	0.13
(1,564)	1:104:A:LYS:H	1:103:A:GLU:HG3	5	0.13
(1,555)	1:93:A:LEU:H	1:163:A:TRP:HZ2	6	0.13
(1,520)	1:8:A:VAL:HG21	1:8:A:VAL:HB	8	0.13
(1,520)	1:8:A:VAL:HG21	1:8:A:VAL:HB	17	0.13
(1,520)	1:8:A:VAL:HG21	1:8:A:VAL:HB	20	0.13
(1,507)	1:153:A:HIS:HE1	1:132:A:HIS:HD2	16	0.13
(1,495)	1:10:A:GLN:HB3	1:10:A:GLN:HG2	11	0.13
(1,487)	1:40:A:LEU:HG	1:39:A:ARG:HG2	15	0.13
(1,486)	1:21:A:LYS:HD2	1:30:A:LYS:HA	2	0.13
(1,486)	1:21:A:LYS:HD2	1:30:A:LYS:HA	8	0.13
(1,485)	1:64:A:GLU:HG2	1:67:A:LYS:HD3	4	0.13
(1,474)	1:135:A:LYS:HD3	1:135:A:LYS:HE2	4	0.13
(1,440)	1:36:A:LYS:HE2	1:36:A:LYS:HD3	19	0.13
(1,437)	1:37:A:LYS:HB3	1:34:A:TYR:HE1	1	0.13
(1,437)	1:37:A:LYS:HB3	1:34:A:TYR:HE1	8	0.13
(1,431)	1:67:A:LYS:HE3	1:44:A:TYR:HE1	6	0.13
(1,422)	1:37:A:LYS:HD2	1:37:A:LYS:HE2	5	0.13
(1,422)	1:37:A:LYS:HD3	1:37:A:LYS:HE2	14	0.13
(1,402)	1:176:A:ARG:HB2	1:176:A:ARG:HA	1	0.13
(1,402)	1:176:A:ARG:HB3	1:176:A:ARG:HA	16	0.13
(1,385)	1:56:A:LYS:HB2	1:183:A:PRO:HA	19	0.13
(1,379)	1:72:A:VAL:HA	1:71:A:LEU:HB3	1	0.13
(1,370)	1:16:A:SER:HB3	1:4:A:LYS:HG2	1	0.13
(1,358)	1:155:A:SER:HA	1:135:A:LYS:HE2	2	0.13
(1,358)	1:155:A:SER:HA	1:135:A:LYS:HE2	12	0.13
(1,355)	1:89:A:VAL:HA	1:103:A:GLU:HB2	6	0.13
(1,321)	1:103:A:GLU:HG3	1:108:A:TYR:HA	14	0.13
(1,304)	1:25:A:GLY:HA2	1:27:A:VAL:HB	2	0.13
(1,304)	1:25:A:GLY:HA2	1:27:A:VAL:HB	3	0.13
(1,289)	1:85:A:ARG:HG3	1:85:A:ARG:HD3	6	0.13
(1,282)	1:37:A:LYS:HE3	1:67:A:LYS:HG2	9	0.13
(1,282)	1:37:A:LYS:HE3	1:67:A:LYS:HG2	17	0.13
(1,279)	1:157:A:LYS:HG2	1:157:A:LYS:HE2	19	0.13
(1,269)	1:5:A:ASP:HB2	1:8:A:VAL:HG21	14	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,264)	1:81:A:ASN:HB2	1:83:A:ALA:HB3	20	0.13
(1,255)	1:106:A:GLN:HG2	1:105:A:ASP:HB3	6	0.13
(1,241)	1:10:A:GLN:HB2	1:10:A:GLN:HG2	18	0.13
(1,232)	1:30:A:LYS:HB3	1:30:A:LYS:HD3	1	0.13
(1,232)	1:30:A:LYS:HB3	1:30:A:LYS:HD3	19	0.13
(1,222)	1:159:A:GLU:HB3	1:162:A:SER:HB2	20	0.13
(1,216)	1:37:A:LYS:HG3	1:37:A:LYS:HD2	4	0.13
(1,204)	1:107:A:LYS:HD3	1:107:A:LYS:HG3	4	0.13
(1,204)	1:107:A:LYS:HD3	1:107:A:LYS:HG3	16	0.13
(1,197)	1:68:A:ARG:HG2	1:67:A:LYS:HE2	17	0.13
(1,154)	1:71:A:LEU:HD12	1:74:A:ASP:HB2	17	0.13
(1,123)	1:150:A:VAL:HG21	1:79:A:LEU:HD21	15	0.13
(1,103)	1:149:A:MET:HE3	1:140:A:ILE:HG22	10	0.13
(1,103)	1:149:A:MET:HE3	1:140:A:ILE:HG22	12	0.13
(1,103)	1:140:A:ILE:HD11	1:149:A:MET:HE1	16	0.13
(1,101)	1:164:A:ILE:HD11	1:129:A:GLU:HB3	17	0.13
(1,92)	1:17:A:LEU:H	1:16:A:SER:HB3	4	0.13
(1,77)	1:46:A:LYS:H	1:46:A:LYS:HD2	3	0.13
(1,77)	1:46:A:LYS:H	1:46:A:LYS:HD2	9	0.13
(1,72)	1:39:A:ARG:H	1:39:A:ARG:HB3	4	0.13
(1,72)	1:39:A:ARG:H	1:39:A:ARG:HB3	5	0.13
(1,72)	1:39:A:ARG:H	1:39:A:ARG:HB3	14	0.13
(1,62)	1:4:A:LYS:H	1:2:A:MET:HG2	9	0.13
(1,57)	1:75:A:GLY:H	1:77:A:VAL:HG21	6	0.13
(1,57)	1:75:A:GLY:H	1:77:A:VAL:HG23	17	0.13
(1,27)	1:50:A:LYS:H	1:51:A:SER:HB2	13	0.13
(1,24)	1:7:A:GLU:H	1:9:A:GLU:HG2	17	0.13
(2,24)	1:167:A:ILE:H	1:163:A:TRP:O	15	0.12
(1,3528)	1:78:A:PHE:HE1	1:78:A:PHE:HB3	6	0.12
(1,3515)	1:38:A:VAL:HG23	1:34:A:TYR:HE2	8	0.12
(1,3512)	1:101:A:LEU:HD13	1:108:A:TYR:HE2	3	0.12
(1,3503)	1:78:A:PHE:HE1	1:78:A:PHE:H	16	0.12
(1,3491)	1:62:A:ALA:HA	1:110:A:PHE:HD2	3	0.12
(1,3491)	1:62:A:ALA:HA	1:110:A:PHE:HD2	4	0.12
(1,3488)	1:149:A:MET:HE3	1:138:A:PHE:HE2	9	0.12
(1,3488)	1:149:A:MET:HE1	1:138:A:PHE:HE2	12	0.12
(1,3470)	1:66:A:LEU:HA	1:61:A:PHE:HE1	20	0.12
(1,3453)	1:67:A:LYS:HB3	1:44:A:TYR:HD2	15	0.12
(1,3447)	1:34:A:TYR:HB2	1:34:A:TYR:HD2	4	0.12
(1,3423)	1:159:A:GLU:HB2	1:163:A:TRP:HD1	2	0.12
(1,3423)	1:159:A:GLU:HB2	1:163:A:TRP:HD1	10	0.12
(1,3423)	1:159:A:GLU:HB2	1:163:A:TRP:HD1	13	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3401)	1:126:A:ILE:HG21	1:143:A:GLY:H	6	0.12
(1,3391)	1:11:A:GLU:HB3	1:12:A:ASP:HB2	18	0.12
(1,3384)	1:93:A:LEU:HD21	1:93:A:LEU:H	20	0.12
(1,3376)	1:53:A:MET:HG2	1:119:A:VAL:HB	16	0.12
(1,3332)	1:76:A:SER:HB3	1:88:A:GLU:HG2	5	0.12
(1,3332)	1:76:A:SER:HB3	1:88:A:GLU:HG2	8	0.12
(1,3332)	1:76:A:SER:HB3	1:88:A:GLU:HG2	11	0.12
(1,3294)	1:65:A:ASP:HA	1:61:A:PHE:HE2	1	0.12
(1,3277)	1:111:A:ALA:HB3	1:100:A:PHE:HD2	2	0.12
(1,3272)	1:98:A:LEU:H	1:97:A:ILE:HG23	18	0.12
(1,3247)	1:2:A:MET:HG3	1:2:A:MET:HB3	6	0.12
(1,3247)	1:2:A:MET:HG3	1:2:A:MET:HB3	19	0.12
(1,3228)	1:99:A:VAL:HG23	1:92:A:VAL:H	8	0.12
(1,3226)	1:89:A:VAL:HG12	1:102:A:GLN:H	1	0.12
(1,3221)	1:152:A:VAL:HG23	1:150:A:VAL:H	12	0.12
(1,3215)	1:15:A:GLN:HB2	1:2:A:MET:HG3	13	0.12
(1,3213)	1:174:A:LEU:HD22	1:174:A:LEU:HB2	12	0.12
(1,3190)	1:36:A:LYS:HD2	1:33:A:SER:HA	10	0.12
(1,3189)	1:33:A:SER:HA	1:36:A:LYS:HG2	20	0.12
(1,3183)	1:144:A:MET:HA	1:145:A:THR:HG22	2	0.12
(1,3175)	1:33:A:SER:HB3	1:33:A:SER:HA	14	0.12
(1,3157)	1:22:A:ASP:HB2	1:22:A:ASP:HA	5	0.12
(1,3157)	1:22:A:ASP:HB2	1:22:A:ASP:HA	15	0.12
(1,3144)	1:34:A:TYR:HB2	1:31:A:VAL:HG21	2	0.12
(1,3125)	1:65:A:ASP:HB3	1:61:A:PHE:HE1	8	0.12
(1,3113)	1:80:A:LYS:HE2	1:80:A:LYS:HB2	3	0.12
(1,3043)	1:88:A:GLU:HB3	1:78:A:PHE:HD1	4	0.12
(1,3034)	1:94:A:LEU:HD23	1:97:A:ILE:HG12	4	0.12
(1,3030)	1:69:A:LYS:HE2	1:97:A:ILE:H	2	0.12
(1,3026)	1:55:A:MET:HG2	1:55:A:MET:HE3	10	0.12
(1,3026)	1:55:A:MET:HG2	1:55:A:MET:HE3	16	0.12
(1,3022)	1:140:A:ILE:HD13	1:138:A:PHE:HA	18	0.12
(1,3013)	1:156:A:SER:HA	1:135:A:LYS:HD3	9	0.12
(1,3010)	1:144:A:MET:HB3	1:144:A:MET:HG3	6	0.12
(1,2962)	1:66:A:LEU:HG	1:65:A:ASP:HB3	14	0.12
(1,2948)	1:53:A:MET:HE2	1:110:A:PHE:HE1	19	0.12
(1,2894)	1:68:A:ARG:HB3	1:7:A:GLU:HA	5	0.12
(1,2893)	1:154:A:ALA:HB1	1:159:A:GLU:HA	16	0.12
(1,2889)	1:111:A:ALA:HB2	1:100:A:PHE:HA	13	0.12
(1,2886)	1:169:A:ASP:HA	1:172:A:ASN:HB2	10	0.12
(1,2886)	1:169:A:ASP:HA	1:172:A:ASN:HB2	11	0.12
(1,2886)	1:169:A:ASP:HA	1:172:A:ASN:HB2	17	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2886)	1:169:A:ASP:HA	1:172:A:ASN:HB2	20	0.12
(1,2875)	1:45:A:THR:HG22	1:45:A:THR:HB	1	0.12
(1,2875)	1:45:A:THR:HG22	1:45:A:THR:HB	5	0.12
(1,2875)	1:45:A:THR:HG23	1:45:A:THR:HB	6	0.12
(1,2875)	1:45:A:THR:HG21	1:45:A:THR:HB	9	0.12
(1,2875)	1:45:A:THR:HG23	1:45:A:THR:HB	11	0.12
(1,2875)	1:45:A:THR:HG21	1:45:A:THR:HB	12	0.12
(1,2875)	1:45:A:THR:HG23	1:45:A:THR:HB	16	0.12
(1,2855)	1:43:A:ILE:HA	1:108:A:TYR:HE2	7	0.12
(1,2855)	1:43:A:ILE:HA	1:108:A:TYR:HE2	11	0.12
(1,2841)	1:16:A:SER:HB2	1:3:A:THR:HB	2	0.12
(1,2834)	1:33:A:SER:HB3	1:30:A:LYS:HG2	2	0.12
(1,2834)	1:33:A:SER:HB3	1:30:A:LYS:HG2	7	0.12
(1,2834)	1:33:A:SER:HB3	1:30:A:LYS:HG2	16	0.12
(1,2824)	1:20:A:VAL:HG23	1:29:A:SER:HB3	8	0.12
(1,2822)	1:121:A:SER:HB2	1:185:A:GLU:HA	18	0.12
(1,2819)	1:121:A:SER:HA	1:121:A:SER:HB2	12	0.12
(1,2813)	1:157:A:LYS:HA	1:134:A:GLU:HG3	16	0.12
(1,2812)	1:56:A:LYS:HA	1:56:A:LYS:HE2	2	0.12
(1,2809)	1:110:A:PHE:HA	1:52:A:ILE:HA	20	0.12
(1,2789)	1:158:A:GLU:HG2	1:158:A:GLU:HA	15	0.12
(1,2789)	1:158:A:GLU:HG2	1:158:A:GLU:HA	17	0.12
(1,2772)	1:29:A:SER:HA	1:32:A:ALA:HB3	11	0.12
(1,2772)	1:29:A:SER:HA	1:32:A:ALA:HB2	15	0.12
(1,2763)	1:67:A:LYS:HB3	1:67:A:LYS:HA	7	0.12
(1,2763)	1:67:A:LYS:HB3	1:67:A:LYS:HA	12	0.12
(1,2763)	1:67:A:LYS:HB3	1:67:A:LYS:HA	14	0.12
(1,2763)	1:67:A:LYS:HB3	1:67:A:LYS:HA	17	0.12
(1,2760)	1:20:A:VAL:HA	1:20:A:VAL:HB	1	0.12
(1,2760)	1:20:A:VAL:HA	1:20:A:VAL:HB	9	0.12
(1,2760)	1:20:A:VAL:HA	1:20:A:VAL:HB	18	0.12
(1,2756)	1:63:A:LYS:HA	1:44:A:TYR:HE2	2	0.12
(1,2740)	1:134:A:GLU:HG2	1:134:A:GLU:HA	8	0.12
(1,2726)	1:127:A:VAL:HA	1:139:A:LEU:HB3	7	0.12
(1,2726)	1:127:A:VAL:HA	1:139:A:LEU:HB3	9	0.12
(1,2726)	1:127:A:VAL:HA	1:139:A:LEU:HB3	20	0.12
(1,2724)	1:76:A:SER:HA	1:89:A:VAL:H	1	0.12
(1,2724)	1:76:A:SER:HA	1:89:A:VAL:H	18	0.12
(1,2709)	1:4:A:LYS:HB3	1:4:A:LYS:HA	1	0.12
(1,2705)	1:135:A:LYS:HA	1:154:A:ALA:HB3	20	0.12
(1,2672)	1:106:A:GLN:HG3	1:105:A:ASP:HA	16	0.12
(1,2665)	1:70:A:LYS:HG2	1:70:A:LYS:HA	4	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2665)	1:70:A:LYS:HG2	1:70:A:LYS:HA	8	0.12
(1,2665)	1:70:A:LYS:HG2	1:70:A:LYS:HA	14	0.12
(1,2607)	1:153:A:HIS:HA	1:136:A:GLY:HA2	11	0.12
(1,2598)	1:32:A:ALA:HA	1:35:A:GLU:HA	5	0.12
(1,2598)	1:32:A:ALA:HA	1:35:A:GLU:HA	8	0.12
(1,2598)	1:32:A:ALA:HA	1:35:A:GLU:HA	9	0.12
(1,2598)	1:32:A:ALA:HA	1:35:A:GLU:HA	15	0.12
(1,2598)	1:32:A:ALA:HA	1:35:A:GLU:HA	19	0.12
(1,2594)	1:14:A:ALA:HA	1:19:A:LEU:HB2	1	0.12
(1,2594)	1:14:A:ALA:HA	1:19:A:LEU:HB2	3	0.12
(1,2583)	1:53:A:MET:HA	1:53:A:MET:HG3	14	0.12
(1,2578)	1:139:A:LEU:HA	1:137:A:LEU:HD22	13	0.12
(1,2551)	1:147:A:PRO:HD2	1:142:A:MET:HG2	19	0.12
(1,2521)	1:52:A:ILE:HB	1:110:A:PHE:HE2	6	0.12
(1,2521)	1:52:A:ILE:HB	1:110:A:PHE:HE2	13	0.12
(1,2521)	1:52:A:ILE:HB	1:110:A:PHE:HE2	16	0.12
(1,2521)	1:52:A:ILE:HB	1:110:A:PHE:HE2	20	0.12
(1,2460)	1:96:A:ASP:HB3	1:94:A:LEU:HB2	9	0.12
(1,2442)	1:146:A:ASP:HB3	1:147:A:PRO:HD3	16	0.12
(1,2404)	1:34:A:TYR:HB2	1:34:A:TYR:HE2	6	0.12
(1,2404)	1:34:A:TYR:HB2	1:34:A:TYR:HE2	7	0.12
(1,2404)	1:34:A:TYR:HB2	1:34:A:TYR:HE1	8	0.12
(1,2404)	1:34:A:TYR:HB2	1:34:A:TYR:HE1	9	0.12
(1,2404)	1:34:A:TYR:HB2	1:34:A:TYR:HE2	11	0.12
(1,2404)	1:34:A:TYR:HB2	1:34:A:TYR:HE2	16	0.12
(1,2404)	1:34:A:TYR:HB2	1:34:A:TYR:HE2	17	0.12
(1,2404)	1:34:A:TYR:HB2	1:34:A:TYR:HE2	18	0.12
(1,2404)	1:34:A:TYR:HB2	1:34:A:TYR:HE1	19	0.12
(1,2383)	1:35:A:GLU:HG3	1:38:A:VAL:HG11	11	0.12
(1,2363)	1:42:A:GLU:HB3	1:42:A:GLU:HG3	2	0.12
(1,2363)	1:42:A:GLU:HB3	1:42:A:GLU:HG3	3	0.12
(1,2363)	1:42:A:GLU:HB3	1:42:A:GLU:HG3	4	0.12
(1,2363)	1:42:A:GLU:HB3	1:42:A:GLU:HG3	6	0.12
(1,2363)	1:42:A:GLU:HB3	1:42:A:GLU:HG3	9	0.12
(1,2363)	1:42:A:GLU:HB3	1:42:A:GLU:HG3	10	0.12
(1,2363)	1:42:A:GLU:HB3	1:42:A:GLU:HG3	11	0.12
(1,2363)	1:42:A:GLU:HB3	1:42:A:GLU:HG3	14	0.12
(1,2363)	1:42:A:GLU:HB3	1:42:A:GLU:HG3	15	0.12
(1,2363)	1:42:A:GLU:HB3	1:42:A:GLU:HG3	17	0.12
(1,2363)	1:42:A:GLU:HB3	1:42:A:GLU:HG3	20	0.12
(1,2329)	1:165:A:GLN:HG3	1:166:A:ILE:HG12	2	0.12
(1,2329)	1:165:A:GLN:HG3	1:166:A:ILE:HG12	17	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2317)	1:67:A:LYS:HB3	1:44:A:TYR:HE2	14	0.12
(1,2304)	1:123:A:LYS:HB3	1:123:A:LYS:HE2	4	0.12
(1,2271)	1:144:A:MET:HG2	1:144:A:MET:HB2	2	0.12
(1,2266)	1:149:A:MET:HB3	1:138:A:PHE:HA	2	0.12
(1,2260)	1:56:A:LYS:HG2	1:56:A:LYS:HB3	17	0.12
(1,2250)	1:119:A:VAL:HG23	1:53:A:MET:HG3	11	0.12
(1,2240)	1:103:A:GLU:HB3	1:108:A:TYR:HE1	3	0.12
(1,2240)	1:103:A:GLU:HB3	1:108:A:TYR:HE1	14	0.12
(1,2230)	1:11:A:GLU:HB2	1:11:A:GLU:HA	8	0.12
(1,2230)	1:11:A:GLU:HB2	1:11:A:GLU:HA	16	0.12
(1,2216)	1:104:A:LYS:HD3	1:104:A:LYS:HG3	12	0.12
(1,2209)	1:42:A:GLU:HB2	1:43:A:ILE:HD13	18	0.12
(1,2183)	1:80:A:LYS:HD3	1:153:A:HIS:HD2	10	0.12
(1,2183)	1:80:A:LYS:HD3	1:153:A:HIS:HD2	16	0.12
(1,2145)	1:36:A:LYS:HD2	1:71:A:LEU:HB2	16	0.12
(1,2145)	1:36:A:LYS:HD2	1:71:A:LEU:HB2	20	0.12
(1,2135)	1:126:A:ILE:HG13	1:140:A:ILE:HD12	1	0.12
(1,2127)	1:137:A:LEU:HD13	1:164:A:ILE:H	8	0.12
(1,2119)	1:137:A:LEU:HD12	1:163:A:TRP:HB3	9	0.12
(1,2099)	1:66:A:LEU:HG	1:97:A:ILE:HG13	1	0.12
(1,2099)	1:66:A:LEU:HG	1:97:A:ILE:HG13	6	0.12
(1,2083)	1:182:A:ILE:HG12	1:182:A:ILE:HA	1	0.12
(1,2083)	1:182:A:ILE:HG12	1:182:A:ILE:HA	14	0.12
(1,2082)	1:182:A:ILE:HG13	1:182:A:ILE:HA	3	0.12
(1,2082)	1:182:A:ILE:HG13	1:182:A:ILE:HA	11	0.12
(1,2082)	1:182:A:ILE:HG13	1:182:A:ILE:HA	12	0.12
(1,2082)	1:182:A:ILE:HG13	1:182:A:ILE:HA	14	0.12
(1,2080)	1:182:A:ILE:HG13	1:123:A:LYS:HB3	5	0.12
(1,2076)	1:71:A:LEU:HG	1:39:A:ARG:HD3	2	0.12
(1,2034)	1:123:A:LYS:HG2	1:123:A:LYS:HB3	1	0.12
(1,2034)	1:123:A:LYS:HG2	1:123:A:LYS:HB3	20	0.12
(1,2033)	1:123:A:LYS:HG3	1:123:A:LYS:HB3	19	0.12
(1,2026)	1:37:A:LYS:HG2	1:34:A:TYR:HA	13	0.12
(1,2015)	1:93:A:LEU:HD11	1:98:A:LEU:HD11	5	0.12
(1,1994)	1:174:A:LEU:HD11	1:171:A:ILE:HB	7	0.12
(1,1989)	1:174:A:LEU:HD12	1:123:A:LYS:HG3	8	0.12
(1,1943)	1:37:A:LYS:HG3	1:34:A:TYR:HD2	3	0.12
(1,1935)	1:56:A:LYS:HG2	1:121:A:SER:HB2	12	0.12
(1,1925)	1:139:A:LEU:HD21	1:137:A:LEU:HG	14	0.12
(1,1906)	1:86:A:LEU:HD13	1:78:A:PHE:HE2	12	0.12
(1,1897)	1:86:A:LEU:HD21	1:86:A:LEU:HD13	1	0.12
(1,1889)	1:174:A:LEU:HD21	1:174:A:LEU:HG	10	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1889)	1:174:A:LEU:HD23	1:174:A:LEU:HG	14	0.12
(1,1873)	1:66:A:LEU:HD21	1:66:A:LEU:HD12	1	0.12
(1,1871)	1:87:A:LYS:HG2	1:87:A:LYS:HE3	8	0.12
(1,1871)	1:87:A:LYS:HG2	1:87:A:LYS:HE3	15	0.12
(1,1871)	1:87:A:LYS:HG2	1:87:A:LYS:HE3	17	0.12
(1,1870)	1:87:A:LYS:HG2	1:87:A:LYS:HE2	15	0.12
(1,1804)	1:127:A:VAL:HG12	1:127:A:VAL:HA	19	0.12
(1,1792)	1:122:A:LEU:HD12	1:122:A:LEU:HA	15	0.12
(1,1783)	1:101:A:LEU:HD21	1:66:A:LEU:HD23	20	0.12
(1,1690)	1:111:A:ALA:HB2	1:102:A:GLN:HB3	7	0.12
(1,1683)	1:83:A:ALA:HB1	1:83:A:ALA:HA	19	0.12
(1,1668)	1:97:A:ILE:HG21	1:121:A:SER:HB3	10	0.12
(1,1644)	1:52:A:ILE:HG22	1:60:A:MET:HG2	9	0.12
(1,1632)	1:126:A:ILE:HG21	1:140:A:ILE:HG21	16	0.12
(1,1628)	1:24:A:ILE:HG22	1:24:A:ILE:HD13	3	0.12
(1,1628)	1:24:A:ILE:HG23	1:24:A:ILE:HD13	8	0.12
(1,1628)	1:24:A:ILE:HG23	1:24:A:ILE:HD13	13	0.12
(1,1628)	1:24:A:ILE:HG23	1:24:A:ILE:HD12	15	0.12
(1,1611)	1:182:A:ILE:HG23	1:182:A:ILE:HB	2	0.12
(1,1611)	1:182:A:ILE:HG22	1:182:A:ILE:HB	5	0.12
(1,1611)	1:182:A:ILE:HG22	1:182:A:ILE:HB	6	0.12
(1,1611)	1:182:A:ILE:HG23	1:182:A:ILE:HB	9	0.12
(1,1611)	1:182:A:ILE:HG23	1:182:A:ILE:HB	17	0.12
(1,1611)	1:182:A:ILE:HG21	1:182:A:ILE:HB	20	0.12
(1,1593)	1:55:A:MET:HE1	1:121:A:SER:HB3	10	0.12
(1,1584)	1:164:A:ILE:HG23	1:165:A:GLN:HB3	4	0.12
(1,1584)	1:164:A:ILE:HG21	1:165:A:GLN:HB3	12	0.12
(1,1584)	1:164:A:ILE:HG22	1:165:A:GLN:HB3	19	0.12
(1,1575)	1:164:A:ILE:HD12	1:161:A:ASN:HB3	2	0.12
(1,1548)	1:120:A:ILE:HD12	1:139:A:LEU:HB2	3	0.12
(1,1503)	1:23:A:VAL:H	1:27:A:VAL:HB	6	0.12
(1,1484)	1:59:A:GLN:H	1:60:A:MET:H	9	0.12
(1,1484)	1:59:A:GLN:H	1:60:A:MET:H	10	0.12
(1,1484)	1:59:A:GLN:H	1:60:A:MET:H	17	0.12
(1,1484)	1:59:A:GLN:H	1:60:A:MET:H	18	0.12
(1,1457)	1:107:A:LYS:H	1:104:A:LYS:HB2	15	0.12
(1,1438)	1:172:A:ASN:H	1:173:A:THR:HB	3	0.12
(1,1438)	1:172:A:ASN:H	1:173:A:THR:HB	4	0.12
(1,1438)	1:172:A:ASN:H	1:173:A:THR:HB	13	0.12
(1,1438)	1:172:A:ASN:H	1:173:A:THR:HB	14	0.12
(1,1438)	1:172:A:ASN:H	1:173:A:THR:HB	17	0.12
(1,1426)	1:181:A:GLY:H	1:180:A:GLU:HB3	17	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1425)	1:181:A:GLY:H	1:182:A:ILE:H	15	0.12
(1,1422)	1:134:A:GLU:H	1:135:A:LYS:HD2	8	0.12
(1,1416)	1:79:A:LEU:H	1:89:A:VAL:HG23	12	0.12
(1,1410)	1:172:A:ASN:HD22	1:168:A:GLN:HG3	18	0.12
(1,1395)	1:17:A:LEU:H	1:16:A:SER:HA	16	0.12
(1,1388)	1:165:A:GLN:HE22	1:166:A:ILE:HG12	15	0.12
(1,1366)	1:135:A:LYS:H	1:135:A:LYS:HB2	15	0.12
(1,1364)	1:135:A:LYS:H	1:135:A:LYS:HG3	15	0.12
(1,1359)	1:69:A:LYS:H	1:40:A:LEU:HD13	10	0.12
(1,1314)	1:176:A:ARG:H	1:174:A:LEU:H	15	0.12
(1,1289)	1:93:A:LEU:H	1:98:A:LEU:HD22	7	0.12
(1,1241)	1:96:A:ASP:H	1:95:A:THR:HG23	3	0.12
(1,1229)	1:156:A:SER:H	1:154:A:ALA:HB3	11	0.12
(1,1207)	1:25:A:GLY:H	1:24:A:ILE:HB	11	0.12
(1,1142)	1:165:A:GLN:H	1:164:A:ILE:HG22	19	0.12
(1,1138)	1:165:A:GLN:H	1:162:A:SER:HA	18	0.12
(1,1100)	1:41:A:ASN:H	1:37:A:LYS:HA	4	0.12
(1,1100)	1:41:A:ASN:H	1:37:A:LYS:HA	13	0.12
(1,1100)	1:41:A:ASN:H	1:37:A:LYS:HA	20	0.12
(1,1096)	1:76:A:SER:H	1:75:A:GLY:HA3	12	0.12
(1,1096)	1:76:A:SER:H	1:75:A:GLY:HA3	17	0.12
(1,1077)	1:123:A:LYS:H	1:123:A:LYS:HB2	1	0.12
(1,1077)	1:123:A:LYS:H	1:123:A:LYS:HB2	3	0.12
(1,1070)	1:162:A:SER:H	1:161:A:ASN:HD21	7	0.12
(1,1070)	1:162:A:SER:H	1:161:A:ASN:HD21	12	0.12
(1,1039)	1:170:A:THR:H	1:171:A:ILE:HD13	2	0.12
(1,1028)	1:138:A:PHE:H	1:130:A:VAL:HB	7	0.12
(1,993)	1:27:A:VAL:H	1:27:A:VAL:HG13	3	0.12
(1,992)	1:27:A:VAL:H	1:26:A:ALA:HB1	7	0.12
(1,979)	1:83:A:ALA:H	1:84:A:GLY:HA2	12	0.12
(1,960)	1:77:A:VAL:H	1:90:A:GLN:HA	13	0.12
(1,945)	1:89:A:VAL:H	1:78:A:PHE:HD1	16	0.12
(1,940)	1:178:A:GLU:H	1:178:A:GLU:HA	11	0.12
(1,931)	1:121:A:SER:H	1:120:A:ILE:HG23	3	0.12
(1,931)	1:121:A:SER:H	1:120:A:ILE:HG22	12	0.12
(1,931)	1:121:A:SER:H	1:120:A:ILE:HG23	16	0.12
(1,929)	1:121:A:SER:H	1:121:A:SER:HB2	3	0.12
(1,924)	1:177:A:ASP:H	1:177:A:ASP:HB3	20	0.12
(1,906)	1:116:A:LYS:H	1:117:A:SER:H	13	0.12
(1,895)	1:176:A:ARG:H	1:176:A:ARG:HB2	8	0.12
(1,895)	1:176:A:ARG:H	1:176:A:ARG:HB2	12	0.12
(1,894)	1:176:A:ARG:H	1:175:A:ASN:HB3	7	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,870)	1:38:A:VAL:H	1:38:A:VAL:HG13	16	0.12
(1,853)	1:179:A:ASP:H	1:178:A:GLU:HA	15	0.12
(1,851)	1:159:A:GLU:H	1:158:A:GLU:HB2	2	0.12
(1,851)	1:159:A:GLU:H	1:158:A:GLU:HB2	4	0.12
(1,851)	1:159:A:GLU:H	1:158:A:GLU:HB2	11	0.12
(1,851)	1:159:A:GLU:H	1:158:A:GLU:HB2	13	0.12
(1,846)	1:5:A:ASP:H	1:4:A:LYS:HB2	8	0.12
(1,829)	1:182:A:ILE:H	1:181:A:GLY:HA3	16	0.12
(1,828)	1:86:A:LEU:H	1:86:A:LEU:HD13	13	0.12
(1,815)	1:125:A:LEU:H	1:125:A:LEU:HG	10	0.12
(1,811)	1:125:A:LEU:H	1:123:A:LYS:HA	12	0.12
(1,811)	1:125:A:LEU:H	1:123:A:LYS:HA	19	0.12
(1,776)	1:42:A:GLU:H	1:43:A:ILE:HB	2	0.12
(1,776)	1:42:A:GLU:H	1:43:A:ILE:HB	3	0.12
(1,776)	1:42:A:GLU:H	1:43:A:ILE:HB	4	0.12
(1,776)	1:42:A:GLU:H	1:43:A:ILE:HB	5	0.12
(1,776)	1:42:A:GLU:H	1:43:A:ILE:HB	7	0.12
(1,776)	1:42:A:GLU:H	1:43:A:ILE:HB	20	0.12
(1,761)	1:174:A:LEU:H	1:174:A:LEU:HD13	18	0.12
(1,697)	1:137:A:LEU:H	1:137:A:LEU:HG	3	0.12
(1,697)	1:137:A:LEU:H	1:137:A:LEU:HG	14	0.12
(1,697)	1:137:A:LEU:H	1:137:A:LEU:HG	15	0.12
(1,663)	1:24:A:ILE:H	1:23:A:VAL:H	9	0.12
(1,655)	1:122:A:LEU:H	1:123:A:LYS:H	19	0.12
(1,639)	1:52:A:ILE:H	1:110:A:PHE:HD2	10	0.12
(1,601)	1:55:A:MET:H	1:55:A:MET:HB2	2	0.12
(1,601)	1:55:A:MET:H	1:55:A:MET:HB2	7	0.12
(1,587)	1:185:A:GLU:H	1:185:A:GLU:HB2	8	0.12
(1,584)	1:185:A:GLU:H	1:184:A:SER:HA	3	0.12
(1,582)	1:167:A:ILE:H	1:127:A:VAL:HG12	12	0.12
(1,582)	1:167:A:ILE:H	1:127:A:VAL:HG13	17	0.12
(1,582)	1:167:A:ILE:H	1:127:A:VAL:HG11	19	0.12
(1,581)	1:167:A:ILE:H	1:167:A:ILE:HB	8	0.12
(1,581)	1:167:A:ILE:H	1:167:A:ILE:HB	18	0.12
(1,555)	1:93:A:LEU:H	1:163:A:TRP:HZ2	10	0.12
(1,520)	1:8:A:VAL:HG22	1:8:A:VAL:HB	10	0.12
(1,520)	1:8:A:VAL:HG21	1:8:A:VAL:HB	13	0.12
(1,515)	1:37:A:LYS:HD2	1:34:A:TYR:HE2	4	0.12
(1,515)	1:37:A:LYS:HD2	1:34:A:TYR:HE1	19	0.12
(1,499)	1:21:A:LYS:HD2	1:33:A:SER:HB2	13	0.12
(1,431)	1:67:A:LYS:HE3	1:44:A:TYR:HE1	4	0.12
(1,429)	1:58:A:GLY:HA3	1:54:A:ARG:HD3	10	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,427)	1:28:A:ASP:HA	1:30:A:LYS:HB3	14	0.12
(1,422)	1:37:A:LYS:HD2	1:37:A:LYS:HE2	2	0.12
(1,422)	1:37:A:LYS:HD3	1:37:A:LYS:HE2	16	0.12
(1,422)	1:37:A:LYS:HD3	1:37:A:LYS:HE3	20	0.12
(1,417)	1:156:A:SER:HB2	1:135:A:LYS:HE2	12	0.12
(1,415)	1:18:A:SER:HA	1:18:A:SER:HB3	16	0.12
(1,352)	1:67:A:LYS:HA	1:40:A:LEU:HD22	12	0.12
(1,348)	1:162:A:SER:HB2	1:161:A:ASN:HB3	12	0.12
(1,344)	1:162:A:SER:HB2	1:162:A:SER:HA	2	0.12
(1,297)	1:19:A:LEU:HB3	1:18:A:SER:HB2	4	0.12
(1,296)	1:19:A:LEU:HB2	1:15:A:GLN:HA	17	0.12
(1,282)	1:37:A:LYS:HE3	1:67:A:LYS:HG2	7	0.12
(1,282)	1:37:A:LYS:HE3	1:67:A:LYS:HG2	16	0.12
(1,282)	1:37:A:LYS:HE3	1:67:A:LYS:HG2	20	0.12
(1,271)	1:87:A:LYS:HE2	1:111:A:ALA:HB2	19	0.12
(1,241)	1:10:A:GLN:HB2	1:10:A:GLN:HG2	4	0.12
(1,238)	1:52:A:ILE:HD11	1:60:A:MET:HG2	2	0.12
(1,232)	1:30:A:LYS:HB3	1:30:A:LYS:HD3	18	0.12
(1,229)	1:30:A:LYS:HB2	1:27:A:VAL:HG23	16	0.12
(1,223)	1:159:A:GLU:HB2	1:162:A:SER:HB2	1	0.12
(1,223)	1:159:A:GLU:HB2	1:162:A:SER:HB2	4	0.12
(1,223)	1:159:A:GLU:HB2	1:162:A:SER:HB2	20	0.12
(1,215)	1:15:A:GLN:HB3	1:15:A:GLN:HG2	10	0.12
(1,200)	1:36:A:LYS:HG3	1:36:A:LYS:HD3	1	0.12
(1,200)	1:36:A:LYS:HG3	1:36:A:LYS:HD3	4	0.12
(1,200)	1:36:A:LYS:HG3	1:36:A:LYS:HD3	20	0.12
(1,192)	1:176:A:ARG:HG3	1:176:A:ARG:HB3	4	0.12
(1,192)	1:176:A:ARG:HG3	1:176:A:ARG:HB3	10	0.12
(1,191)	1:176:A:ARG:HG2	1:176:A:ARG:HB2	15	0.12
(1,140)	1:70:A:LYS:HG3	1:70:A:LYS:HD2	1	0.12
(1,127)	1:95:A:THR:HG21	1:70:A:LYS:HB2	20	0.12
(1,123)	1:150:A:VAL:HG23	1:79:A:LEU:HD22	3	0.12
(1,123)	1:79:A:LEU:HD22	1:152:A:VAL:HG21	12	0.12
(1,109)	1:97:A:ILE:HD13	1:119:A:VAL:HG21	8	0.12
(1,103)	1:140:A:ILE:HD11	1:149:A:MET:HE1	8	0.12
(1,102)	1:109:A:ILE:HD11	1:109:A:ILE:HG13	9	0.12
(1,78)	1:107:A:LYS:H	1:103:A:GLU:HG2	1	0.12
(1,78)	1:107:A:LYS:H	1:103:A:GLU:HG2	4	0.12
(1,77)	1:46:A:LYS:H	1:46:A:LYS:HD2	10	0.12
(1,77)	1:46:A:LYS:H	1:46:A:LYS:HD2	12	0.12
(1,77)	1:46:A:LYS:H	1:46:A:LYS:HD2	20	0.12
(1,72)	1:39:A:ARG:H	1:39:A:ARG:HB3	2	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,57)	1:75:A:GLY:H	1:77:A:VAL:HG21	5	0.12
(1,33)	1:107:A:LYS:H	1:106:A:GLN:HG3	2	0.12
(1,24)	1:7:A:GLU:H	1:9:A:GLU:HG2	6	0.12
(1,24)	1:7:A:GLU:H	1:9:A:GLU:HG3	7	0.12
(1,24)	1:7:A:GLU:H	1:9:A:GLU:HG2	12	0.12
(1,24)	1:7:A:GLU:H	1:9:A:GLU:HG2	13	0.12
(1,22)	1:130:A:VAL:H	1:129:A:GLU:HB3	2	0.12
(1,22)	1:130:A:VAL:H	1:129:A:GLU:HB3	5	0.12
(1,22)	1:130:A:VAL:H	1:129:A:GLU:HB3	12	0.12
(1,20)	1:11:A:GLU:H	1:178:A:GLU:H	1	0.12
(1,13)	1:26:A:ALA:H	1:25:A:GLY:HA3	15	0.12
(1,11)	1:98:A:LEU:H	1:97:A:ILE:HG21	17	0.12
(1,3)	1:185:A:GLU:H	1:185:A:GLU:HG3	17	0.12
(1,3)	1:185:A:GLU:H	1:185:A:GLU:HG3	18	0.12
(2,22)	1:162:A:SER:H	1:159:A:GLU:O	4	0.11
(1,3531)	1:153:A:HIS:HA	1:153:A:HIS:HD2	8	0.11
(1,3528)	1:78:A:PHE:HE1	1:78:A:PHE:HB3	1	0.11
(1,3528)	1:78:A:PHE:HE2	1:78:A:PHE:HB3	7	0.11
(1,3517)	1:63:A:LYS:HG2	1:44:A:TYR:HE2	16	0.11
(1,3491)	1:62:A:ALA:HA	1:110:A:PHE:HD2	14	0.11
(1,3488)	1:149:A:MET:HE3	1:138:A:PHE:HE2	3	0.11
(1,3488)	1:149:A:MET:HE2	1:138:A:PHE:HE2	5	0.11
(1,3478)	1:88:A:GLU:HA	1:78:A:PHE:HE1	18	0.11
(1,3457)	1:86:A:LEU:HD13	1:153:A:HIS:HE1	4	0.11
(1,3453)	1:67:A:LYS:HB3	1:44:A:TYR:HD2	10	0.11
(1,3423)	1:159:A:GLU:HB2	1:163:A:TRP:HD1	7	0.11
(1,3423)	1:159:A:GLU:HB2	1:163:A:TRP:HD1	15	0.11
(1,3423)	1:159:A:GLU:HB2	1:163:A:TRP:HD1	19	0.11
(1,3420)	1:69:A:LYS:HA	1:69:A:LYS:HD2	5	0.11
(1,3380)	1:40:A:LEU:HG	1:43:A:ILE:HD11	16	0.11
(1,3376)	1:53:A:MET:HG2	1:119:A:VAL:HB	14	0.11
(1,3332)	1:76:A:SER:HB3	1:88:A:GLU:HG2	1	0.11
(1,3332)	1:76:A:SER:HB3	1:88:A:GLU:HG2	16	0.11
(1,3247)	1:2:A:MET:HG3	1:2:A:MET:HB3	7	0.11
(1,3247)	1:2:A:MET:HG3	1:2:A:MET:HB3	12	0.11
(1,3232)	1:152:A:VAL:HG21	1:153:A:HIS:H	6	0.11
(1,3229)	1:86:A:LEU:HD22	1:153:A:HIS:HE1	6	0.11
(1,3229)	1:86:A:LEU:HD23	1:153:A:HIS:HE1	16	0.11
(1,3226)	1:89:A:VAL:HG12	1:102:A:GLN:H	10	0.11
(1,3222)	1:77:A:VAL:HG23	1:78:A:PHE:H	20	0.11
(1,3214)	1:15:A:GLN:HB3	1:2:A:MET:HG2	20	0.11
(1,3213)	1:174:A:LEU:HD23	1:174:A:LEU:HB2	3	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3213)	1:174:A:LEU:HD23	1:174:A:LEU:HB2	8	0.11
(1,3213)	1:174:A:LEU:HD21	1:174:A:LEU:HB2	14	0.11
(1,3213)	1:174:A:LEU:HD21	1:174:A:LEU:HB2	16	0.11
(1,3190)	1:36:A:LYS:HD2	1:33:A:SER:HA	17	0.11
(1,3189)	1:33:A:SER:HA	1:36:A:LYS:HG2	3	0.11
(1,3175)	1:33:A:SER:HB3	1:33:A:SER:HA	2	0.11
(1,3175)	1:33:A:SER:HB3	1:33:A:SER:HA	16	0.11
(1,3175)	1:33:A:SER:HB3	1:33:A:SER:HA	17	0.11
(1,3157)	1:22:A:ASP:HB2	1:22:A:ASP:HA	2	0.11
(1,3144)	1:34:A:TYR:HB2	1:31:A:VAL:HG21	19	0.11
(1,3132)	1:4:A:LYS:HB3	1:4:A:LYS:HD3	10	0.11
(1,3113)	1:80:A:LYS:HE2	1:80:A:LYS:HB2	7	0.11
(1,3105)	1:39:A:ARG:HD3	1:39:A:ARG:HA	1	0.11
(1,3092)	1:157:A:LYS:HA	1:157:A:LYS:HE2	1	0.11
(1,3078)	1:134:A:GLU:HG3	1:134:A:GLU:HA	7	0.11
(1,3030)	1:69:A:LYS:HE2	1:97:A:ILE:H	5	0.11
(1,3026)	1:55:A:MET:HG2	1:55:A:MET:HE3	1	0.11
(1,3026)	1:55:A:MET:HG2	1:55:A:MET:HE3	9	0.11
(1,3026)	1:55:A:MET:HG2	1:55:A:MET:HE1	11	0.11
(1,3026)	1:55:A:MET:HG2	1:55:A:MET:HE2	13	0.11
(1,3026)	1:55:A:MET:HG2	1:55:A:MET:HE3	15	0.11
(1,3013)	1:156:A:SER:HA	1:135:A:LYS:HD3	16	0.11
(1,2962)	1:66:A:LEU:HG	1:65:A:ASP:HB3	6	0.11
(1,2956)	1:41:A:ASN:HB2	1:44:A:TYR:HD2	7	0.11
(1,2929)	1:166:A:ILE:HB	1:169:A:ASP:HB3	11	0.11
(1,2908)	1:123:A:LYS:HB2	1:123:A:LYS:HE2	2	0.11
(1,2908)	1:123:A:LYS:HB2	1:123:A:LYS:HE2	20	0.11
(1,2900)	1:142:A:MET:HB2	1:126:A:ILE:HG12	16	0.11
(1,2894)	1:68:A:ARG:HB3	1:7:A:GLU:HA	3	0.11
(1,2894)	1:68:A:ARG:HB3	1:7:A:GLU:HA	19	0.11
(1,2889)	1:111:A:ALA:HB2	1:100:A:PHE:HA	20	0.11
(1,2886)	1:169:A:ASP:HA	1:172:A:ASN:HB2	5	0.11
(1,2886)	1:169:A:ASP:HA	1:172:A:ASN:HB2	12	0.11
(1,2886)	1:169:A:ASP:HA	1:172:A:ASN:HB2	19	0.11
(1,2875)	1:45:A:THR:HG23	1:45:A:THR:HB	13	0.11
(1,2875)	1:45:A:THR:HG22	1:45:A:THR:HB	18	0.11
(1,2868)	1:167:A:ILE:HA	1:170:A:THR:HG21	5	0.11
(1,2868)	1:167:A:ILE:HA	1:170:A:THR:HG21	13	0.11
(1,2868)	1:167:A:ILE:HA	1:170:A:THR:HG21	14	0.11
(1,2864)	1:118:A:THR:HB	1:113:A:LEU:HB2	6	0.11
(1,2864)	1:118:A:THR:HB	1:113:A:LEU:HB2	11	0.11
(1,2864)	1:118:A:THR:HB	1:113:A:LEU:HB2	20	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2855)	1:43:A:ILE:HA	1:108:A:TYR:HE2	6	0.11
(1,2855)	1:43:A:ILE:HA	1:108:A:TYR:HE2	19	0.11
(1,2834)	1:33:A:SER:HB3	1:30:A:LYS:HG2	4	0.11
(1,2834)	1:33:A:SER:HB3	1:30:A:LYS:HG2	8	0.11
(1,2834)	1:33:A:SER:HB3	1:30:A:LYS:HG2	11	0.11
(1,2834)	1:33:A:SER:HB3	1:30:A:LYS:HG2	14	0.11
(1,2809)	1:110:A:PHE:HA	1:52:A:ILE:HA	14	0.11
(1,2809)	1:110:A:PHE:HA	1:52:A:ILE:HA	16	0.11
(1,2803)	1:37:A:LYS:HA	1:40:A:LEU:HD13	7	0.11
(1,2772)	1:29:A:SER:HA	1:32:A:ALA:HB3	5	0.11
(1,2772)	1:29:A:SER:HA	1:32:A:ALA:HB3	8	0.11
(1,2772)	1:29:A:SER:HA	1:32:A:ALA:HB3	12	0.11
(1,2763)	1:67:A:LYS:HB3	1:67:A:LYS:HA	2	0.11
(1,2763)	1:67:A:LYS:HB3	1:67:A:LYS:HA	4	0.11
(1,2763)	1:67:A:LYS:HB3	1:67:A:LYS:HA	5	0.11
(1,2763)	1:67:A:LYS:HB3	1:67:A:LYS:HA	6	0.11
(1,2763)	1:67:A:LYS:HB3	1:67:A:LYS:HA	9	0.11
(1,2763)	1:67:A:LYS:HB3	1:67:A:LYS:HA	10	0.11
(1,2763)	1:67:A:LYS:HB3	1:67:A:LYS:HA	11	0.11
(1,2763)	1:67:A:LYS:HB3	1:67:A:LYS:HA	13	0.11
(1,2763)	1:67:A:LYS:HB3	1:67:A:LYS:HA	15	0.11
(1,2763)	1:67:A:LYS:HB3	1:67:A:LYS:HA	18	0.11
(1,2763)	1:67:A:LYS:HB3	1:67:A:LYS:HA	19	0.11
(1,2763)	1:67:A:LYS:HB3	1:67:A:LYS:HA	20	0.11
(1,2760)	1:20:A:VAL:HA	1:20:A:VAL:HB	5	0.11
(1,2756)	1:63:A:LYS:HA	1:44:A:TYR:HE2	20	0.11
(1,2751)	1:155:A:SER:HA	1:78:A:PHE:HE1	14	0.11
(1,2740)	1:134:A:GLU:HG2	1:134:A:GLU:HA	17	0.11
(1,2727)	1:139:A:LEU:HD21	1:127:A:VAL:HA	8	0.11
(1,2726)	1:127:A:VAL:HA	1:139:A:LEU:HB3	5	0.11
(1,2726)	1:127:A:VAL:HA	1:139:A:LEU:HB3	12	0.11
(1,2726)	1:127:A:VAL:HA	1:139:A:LEU:HB3	17	0.11
(1,2726)	1:127:A:VAL:HA	1:139:A:LEU:HB3	18	0.11
(1,2724)	1:76:A:SER:HA	1:89:A:VAL:H	7	0.11
(1,2676)	1:55:A:MET:HA	1:55:A:MET:HG3	8	0.11
(1,2672)	1:106:A:GLN:HG3	1:105:A:ASP:HA	17	0.11
(1,2672)	1:106:A:GLN:HG3	1:105:A:ASP:HA	20	0.11
(1,2665)	1:70:A:LYS:HG2	1:70:A:LYS:HA	9	0.11
(1,2665)	1:70:A:LYS:HG2	1:70:A:LYS:HA	16	0.11
(1,2607)	1:153:A:HIS:HA	1:136:A:GLY:HA2	14	0.11
(1,2605)	1:133:A:GLU:HA	1:130:A:VAL:HG12	15	0.11
(1,2598)	1:32:A:ALA:HA	1:35:A:GLU:HA	4	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2598)	1:32:A:ALA:HA	1:35:A:GLU:HA	6	0.11
(1,2598)	1:32:A:ALA:HA	1:35:A:GLU:HA	20	0.11
(1,2583)	1:53:A:MET:HA	1:53:A:MET:HG3	1	0.11
(1,2583)	1:53:A:MET:HA	1:53:A:MET:HG3	3	0.11
(1,2583)	1:53:A:MET:HA	1:53:A:MET:HG3	6	0.11
(1,2583)	1:53:A:MET:HA	1:53:A:MET:HG3	7	0.11
(1,2583)	1:53:A:MET:HA	1:53:A:MET:HG3	10	0.11
(1,2583)	1:53:A:MET:HA	1:53:A:MET:HG3	11	0.11
(1,2583)	1:53:A:MET:HA	1:53:A:MET:HG3	12	0.11
(1,2583)	1:53:A:MET:HA	1:53:A:MET:HG3	15	0.11
(1,2583)	1:53:A:MET:HA	1:53:A:MET:HG3	16	0.11
(1,2583)	1:53:A:MET:HA	1:53:A:MET:HG3	18	0.11
(1,2583)	1:53:A:MET:HA	1:53:A:MET:HG3	19	0.11
(1,2583)	1:53:A:MET:HA	1:53:A:MET:HG3	20	0.11
(1,2551)	1:147:A:PRO:HD2	1:142:A:MET:HG2	16	0.11
(1,2542)	1:74:A:ASP:HB3	1:92:A:VAL:HG22	11	0.11
(1,2521)	1:52:A:ILE:HB	1:110:A:PHE:HE2	14	0.11
(1,2521)	1:52:A:ILE:HB	1:110:A:PHE:HE2	18	0.11
(1,2514)	1:157:A:LYS:HE3	1:157:A:LYS:HA	4	0.11
(1,2514)	1:157:A:LYS:HE3	1:157:A:LYS:HA	20	0.11
(1,2490)	1:39:A:ARG:HD2	1:38:A:VAL:HG13	6	0.11
(1,2479)	1:80:A:LYS:HE3	1:84:A:GLY:HA3	19	0.11
(1,2446)	1:28:A:ASP:HB2	1:27:A:VAL:HG12	1	0.11
(1,2442)	1:146:A:ASP:HB3	1:147:A:PRO:HD3	1	0.11
(1,2411)	1:41:A:ASN:HB3	1:44:A:TYR:HB3	3	0.11
(1,2411)	1:41:A:ASN:HB3	1:44:A:TYR:HB3	10	0.11
(1,2411)	1:41:A:ASN:HB3	1:44:A:TYR:HB3	12	0.11
(1,2411)	1:41:A:ASN:HB3	1:44:A:TYR:HB3	15	0.11
(1,2411)	1:41:A:ASN:HB3	1:44:A:TYR:HB3	17	0.11
(1,2411)	1:41:A:ASN:HB3	1:44:A:TYR:HB3	20	0.11
(1,2404)	1:34:A:TYR:HB2	1:34:A:TYR:HE1	1	0.11
(1,2404)	1:34:A:TYR:HB2	1:34:A:TYR:HE2	3	0.11
(1,2404)	1:34:A:TYR:HB2	1:34:A:TYR:HE2	5	0.11
(1,2404)	1:34:A:TYR:HB2	1:34:A:TYR:HE2	10	0.11
(1,2404)	1:34:A:TYR:HB2	1:34:A:TYR:HE2	12	0.11
(1,2404)	1:34:A:TYR:HB2	1:34:A:TYR:HE2	15	0.11
(1,2404)	1:34:A:TYR:HB2	1:34:A:TYR:HE2	20	0.11
(1,2391)	1:151:A:GLU:HG3	1:80:A:LYS:HB3	16	0.11
(1,2379)	1:178:A:GLU:HG2	1:178:A:GLU:HB2	5	0.11
(1,2363)	1:42:A:GLU:HB3	1:42:A:GLU:HG3	8	0.11
(1,2363)	1:42:A:GLU:HB3	1:42:A:GLU:HG3	16	0.11
(1,2363)	1:42:A:GLU:HB3	1:42:A:GLU:HG3	18	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2356)	1:128:A:ARG:HB3	1:130:A:VAL:H	14	0.11
(1,2329)	1:165:A:GLN:HG3	1:166:A:ILE:HG12	3	0.11
(1,2317)	1:67:A:LYS:HB3	1:44:A:TYR:HE2	1	0.11
(1,2294)	1:168:A:GLN:HG3	1:168:A:GLN:HA	3	0.11
(1,2291)	1:4:A:LYS:HB3	1:9:A:GLU:HA	5	0.11
(1,2279)	1:123:A:LYS:HB2	1:174:A:LEU:HD11	13	0.11
(1,2250)	1:119:A:VAL:HG22	1:53:A:MET:HG3	20	0.11
(1,2249)	1:53:A:MET:HG2	1:119:A:VAL:HG23	13	0.11
(1,2240)	1:103:A:GLU:HB3	1:108:A:TYR:HE1	5	0.11
(1,2240)	1:103:A:GLU:HB3	1:108:A:TYR:HE1	15	0.11
(1,2230)	1:11:A:GLU:HB2	1:11:A:GLU:HA	6	0.11
(1,2230)	1:11:A:GLU:HB2	1:11:A:GLU:HA	10	0.11
(1,2214)	1:10:A:GLN:HB3	1:10:A:GLN:HB2	1	0.11
(1,2214)	1:10:A:GLN:HB3	1:10:A:GLN:HB2	2	0.11
(1,2214)	1:10:A:GLN:HB3	1:10:A:GLN:HB2	3	0.11
(1,2214)	1:10:A:GLN:HB3	1:10:A:GLN:HB2	6	0.11
(1,2214)	1:10:A:GLN:HB3	1:10:A:GLN:HB2	8	0.11
(1,2214)	1:10:A:GLN:HB3	1:10:A:GLN:HB2	9	0.11
(1,2214)	1:10:A:GLN:HB3	1:10:A:GLN:HB2	10	0.11
(1,2214)	1:10:A:GLN:HB3	1:10:A:GLN:HB2	12	0.11
(1,2214)	1:10:A:GLN:HB3	1:10:A:GLN:HB2	13	0.11
(1,2214)	1:10:A:GLN:HB3	1:10:A:GLN:HB2	16	0.11
(1,2189)	1:171:A:ILE:HG23	1:123:A:LYS:HD3	20	0.11
(1,2183)	1:80:A:LYS:HD3	1:153:A:HIS:HD2	6	0.11
(1,2183)	1:80:A:LYS:HD3	1:153:A:HIS:HD2	18	0.11
(1,2182)	1:80:A:LYS:HD2	1:84:A:GLY:HA2	4	0.11
(1,2127)	1:137:A:LEU:HD12	1:164:A:ILE:H	20	0.11
(1,2099)	1:66:A:LEU:HG	1:97:A:ILE:HG13	2	0.11
(1,2083)	1:182:A:ILE:HG12	1:182:A:ILE:HA	4	0.11
(1,2083)	1:182:A:ILE:HG12	1:182:A:ILE:HA	10	0.11
(1,2082)	1:182:A:ILE:HG13	1:182:A:ILE:HA	1	0.11
(1,2082)	1:182:A:ILE:HG13	1:182:A:ILE:HA	17	0.11
(1,2080)	1:182:A:ILE:HG13	1:123:A:LYS:HB3	4	0.11
(1,2080)	1:182:A:ILE:HG13	1:123:A:LYS:HB3	9	0.11
(1,2064)	1:137:A:LEU:HD21	1:164:A:ILE:HG12	2	0.11
(1,2064)	1:137:A:LEU:HD22	1:164:A:ILE:HG12	5	0.11
(1,2064)	1:137:A:LEU:HD21	1:164:A:ILE:HG12	7	0.11
(1,2034)	1:123:A:LYS:HG2	1:123:A:LYS:HB3	3	0.11
(1,2034)	1:123:A:LYS:HG2	1:123:A:LYS:HB3	4	0.11
(1,2034)	1:123:A:LYS:HG2	1:123:A:LYS:HB3	5	0.11
(1,2034)	1:123:A:LYS:HG2	1:123:A:LYS:HB3	13	0.11
(1,2034)	1:123:A:LYS:HG2	1:123:A:LYS:HB3	14	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2033)	1:123:A:LYS:HG3	1:123:A:LYS:HB3	10	0.11
(1,2033)	1:123:A:LYS:HG3	1:123:A:LYS:HB3	18	0.11
(1,2026)	1:37:A:LYS:HG2	1:34:A:TYR:HA	2	0.11
(1,2026)	1:37:A:LYS:HG2	1:34:A:TYR:HA	17	0.11
(1,1993)	1:174:A:LEU:HD12	1:174:A:LEU:HB3	15	0.11
(1,1976)	1:101:A:LEU:HD12	1:101:A:LEU:HA	16	0.11
(1,1976)	1:101:A:LEU:HD12	1:101:A:LEU:HA	19	0.11
(1,1959)	1:66:A:LEU:HD11	1:66:A:LEU:HA	14	0.11
(1,1943)	1:37:A:LYS:HG3	1:34:A:TYR:HD1	9	0.11
(1,1943)	1:37:A:LYS:HG3	1:34:A:TYR:HD2	20	0.11
(1,1936)	1:56:A:LYS:HG2	1:56:A:LYS:HA	2	0.11
(1,1935)	1:56:A:LYS:HG2	1:121:A:SER:HB2	7	0.11
(1,1929)	1:94:A:LEU:HD21	1:69:A:LYS:HD2	7	0.11
(1,1929)	1:94:A:LEU:HD22	1:69:A:LYS:HD2	9	0.11
(1,1921)	1:67:A:LYS:HG2	1:44:A:TYR:HE2	16	0.11
(1,1889)	1:174:A:LEU:HD21	1:174:A:LEU:HG	12	0.11
(1,1889)	1:174:A:LEU:HD22	1:174:A:LEU:HG	15	0.11
(1,1889)	1:174:A:LEU:HD22	1:174:A:LEU:HG	18	0.11
(1,1888)	1:174:A:LEU:HD22	1:123:A:LYS:HG2	13	0.11
(1,1804)	1:127:A:VAL:HG11	1:127:A:VAL:HA	2	0.11
(1,1804)	1:127:A:VAL:HG11	1:127:A:VAL:HA	5	0.11
(1,1804)	1:127:A:VAL:HG11	1:127:A:VAL:HA	14	0.11
(1,1804)	1:127:A:VAL:HG11	1:127:A:VAL:HA	15	0.11
(1,1769)	1:86:A:LEU:HD23	1:78:A:PHE:HB2	2	0.11
(1,1763)	1:99:A:VAL:HG12	1:101:A:LEU:HG	8	0.11
(1,1745)	1:77:A:VAL:HG12	1:163:A:TRP:HD1	2	0.11
(1,1726)	1:20:A:VAL:HG22	1:21:A:LYS:HA	3	0.11
(1,1726)	1:20:A:VAL:HG21	1:21:A:LYS:HA	10	0.11
(1,1690)	1:111:A:ALA:HB3	1:102:A:GLN:HB3	4	0.11
(1,1690)	1:111:A:ALA:HB3	1:102:A:GLN:HB3	10	0.11
(1,1628)	1:24:A:ILE:HG21	1:24:A:ILE:HD13	2	0.11
(1,1628)	1:24:A:ILE:HG21	1:24:A:ILE:HD11	17	0.11
(1,1611)	1:182:A:ILE:HG21	1:182:A:ILE:HB	1	0.11
(1,1611)	1:182:A:ILE:HG22	1:182:A:ILE:HB	8	0.11
(1,1611)	1:182:A:ILE:HG21	1:182:A:ILE:HB	14	0.11
(1,1611)	1:182:A:ILE:HG23	1:182:A:ILE:HB	15	0.11
(1,1600)	1:149:A:MET:HE1	1:138:A:PHE:HB2	10	0.11
(1,1592)	1:55:A:MET:HE3	1:121:A:SER:HB2	3	0.11
(1,1590)	1:55:A:MET:HE1	1:55:A:MET:HG3	10	0.11
(1,1590)	1:55:A:MET:HE3	1:55:A:MET:HG3	13	0.11
(1,1584)	1:164:A:ILE:HG21	1:165:A:GLN:HB3	14	0.11
(1,1584)	1:164:A:ILE:HG21	1:165:A:GLN:HB3	18	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1578)	1:182:A:ILE:HD12	1:182:A:ILE:HG12	3	0.11
(1,1578)	1:182:A:ILE:HD12	1:182:A:ILE:HG12	5	0.11
(1,1578)	1:182:A:ILE:HD12	1:182:A:ILE:HG12	9	0.11
(1,1578)	1:182:A:ILE:HD11	1:182:A:ILE:HG12	10	0.11
(1,1578)	1:182:A:ILE:HD13	1:182:A:ILE:HG12	12	0.11
(1,1578)	1:182:A:ILE:HD11	1:182:A:ILE:HG12	13	0.11
(1,1578)	1:182:A:ILE:HD13	1:182:A:ILE:HG12	15	0.11
(1,1578)	1:182:A:ILE:HD13	1:182:A:ILE:HG12	17	0.11
(1,1578)	1:182:A:ILE:HD11	1:182:A:ILE:HG12	20	0.11
(1,1508)	1:69:A:LYS:H	1:68:A:ARG:HG2	1	0.11
(1,1508)	1:69:A:LYS:H	1:68:A:ARG:HG2	3	0.11
(1,1508)	1:69:A:LYS:H	1:68:A:ARG:HG2	5	0.11
(1,1503)	1:23:A:VAL:H	1:27:A:VAL:HB	13	0.11
(1,1503)	1:23:A:VAL:H	1:27:A:VAL:HB	14	0.11
(1,1503)	1:23:A:VAL:H	1:27:A:VAL:HB	17	0.11
(1,1503)	1:23:A:VAL:H	1:27:A:VAL:HB	20	0.11
(1,1484)	1:59:A:GLN:H	1:60:A:MET:H	8	0.11
(1,1471)	1:37:A:LYS:H	1:37:A:LYS:HG3	5	0.11
(1,1471)	1:37:A:LYS:H	1:37:A:LYS:HG3	19	0.11
(1,1454)	1:35:A:GLU:H	1:35:A:GLU:HG2	19	0.11
(1,1438)	1:172:A:ASN:H	1:173:A:THR:HB	1	0.11
(1,1438)	1:172:A:ASN:H	1:173:A:THR:HB	6	0.11
(1,1438)	1:172:A:ASN:H	1:173:A:THR:HB	19	0.11
(1,1438)	1:172:A:ASN:H	1:173:A:THR:HB	20	0.11
(1,1425)	1:181:A:GLY:H	1:182:A:ILE:H	4	0.11
(1,1425)	1:181:A:GLY:H	1:182:A:ILE:H	5	0.11
(1,1416)	1:79:A:LEU:H	1:89:A:VAL:HG21	16	0.11
(1,1406)	1:172:A:ASN:HD22	1:172:A:ASN:HA	7	0.11
(1,1406)	1:172:A:ASN:HD22	1:172:A:ASN:HA	13	0.11
(1,1400)	1:69:A:LYS:H	1:68:A:ARG:HB3	19	0.11
(1,1395)	1:17:A:LEU:H	1:16:A:SER:HA	14	0.11
(1,1388)	1:165:A:GLN:HE22	1:166:A:ILE:HG12	4	0.11
(1,1388)	1:165:A:GLN:HE22	1:166:A:ILE:HG12	8	0.11
(1,1388)	1:165:A:GLN:HE22	1:166:A:ILE:HG12	9	0.11
(1,1366)	1:135:A:LYS:H	1:135:A:LYS:HB2	13	0.11
(1,1354)	1:15:A:GLN:H	1:15:A:GLN:HB2	6	0.11
(1,1347)	1:51:A:SER:H	1:50:A:LYS:HA	12	0.11
(1,1299)	1:107:A:LYS:H	1:104:A:LYS:HA	2	0.11
(1,1299)	1:107:A:LYS:H	1:104:A:LYS:HA	15	0.11
(1,1296)	1:67:A:LYS:H	1:69:A:LYS:HD2	4	0.11
(1,1296)	1:67:A:LYS:H	1:69:A:LYS:HD2	14	0.11
(1,1274)	1:163:A:TRP:HE1	1:77:A:VAL:HG12	10	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1241)	1:96:A:ASP:H	1:95:A:THR:HG22	12	0.11
(1,1222)	1:156:A:SER:H	1:154:A:ALA:HA	2	0.11
(1,1222)	1:156:A:SER:H	1:154:A:ALA:HA	6	0.11
(1,1222)	1:156:A:SER:H	1:154:A:ALA:HA	8	0.11
(1,1142)	1:165:A:GLN:H	1:164:A:ILE:HG23	1	0.11
(1,1142)	1:165:A:GLN:H	1:164:A:ILE:HG22	10	0.11
(1,1142)	1:165:A:GLN:H	1:164:A:ILE:HG21	14	0.11
(1,1138)	1:165:A:GLN:H	1:162:A:SER:HA	13	0.11
(1,1116)	1:65:A:ASP:H	1:65:A:ASP:HB3	12	0.11
(1,1100)	1:41:A:ASN:H	1:37:A:LYS:HA	1	0.11
(1,1100)	1:41:A:ASN:H	1:37:A:LYS:HA	2	0.11
(1,1100)	1:41:A:ASN:H	1:37:A:LYS:HA	15	0.11
(1,1096)	1:76:A:SER:H	1:75:A:GLY:HA3	18	0.11
(1,1079)	1:123:A:LYS:H	1:123:A:LYS:HG3	20	0.11
(1,1077)	1:123:A:LYS:H	1:123:A:LYS:HB2	11	0.11
(1,1077)	1:123:A:LYS:H	1:123:A:LYS:HB2	14	0.11
(1,1071)	1:162:A:SER:H	1:165:A:GLN:HE21	7	0.11
(1,1071)	1:162:A:SER:H	1:165:A:GLN:HE21	16	0.11
(1,1043)	1:70:A:LYS:H	1:70:A:LYS:HG2	12	0.11
(1,1028)	1:138:A:PHE:H	1:130:A:VAL:HB	15	0.11
(1,945)	1:89:A:VAL:H	1:78:A:PHE:HD1	3	0.11
(1,924)	1:177:A:ASP:H	1:177:A:ASP:HB3	5	0.11
(1,895)	1:176:A:ARG:H	1:176:A:ARG:HB2	20	0.11
(1,858)	1:59:A:GLN:H	1:57:A:SER:HA	18	0.11
(1,855)	1:179:A:ASP:H	1:178:A:GLU:HB2	13	0.11
(1,855)	1:179:A:ASP:H	1:178:A:GLU:HB2	14	0.11
(1,851)	1:159:A:GLU:H	1:158:A:GLU:HB2	20	0.11
(1,841)	1:110:A:PHE:H	1:109:A:ILE:HG21	12	0.11
(1,835)	1:12:A:ASP:H	1:174:A:LEU:HA	7	0.11
(1,815)	1:125:A:LEU:H	1:125:A:LEU:HG	8	0.11
(1,811)	1:125:A:LEU:H	1:123:A:LYS:HA	3	0.11
(1,811)	1:125:A:LEU:H	1:123:A:LYS:HA	6	0.11
(1,811)	1:125:A:LEU:H	1:123:A:LYS:HA	7	0.11
(1,811)	1:125:A:LEU:H	1:123:A:LYS:HA	8	0.11
(1,811)	1:125:A:LEU:H	1:123:A:LYS:HA	20	0.11
(1,795)	1:11:A:GLU:H	1:10:A:GLN:HB3	10	0.11
(1,776)	1:42:A:GLU:H	1:43:A:ILE:HB	1	0.11
(1,776)	1:42:A:GLU:H	1:43:A:ILE:HB	9	0.11
(1,776)	1:42:A:GLU:H	1:43:A:ILE:HB	13	0.11
(1,776)	1:42:A:GLU:H	1:43:A:ILE:HB	17	0.11
(1,776)	1:42:A:GLU:H	1:43:A:ILE:HB	19	0.11
(1,750)	1:160:A:ARG:H	1:159:A:GLU:HB2	17	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,723)	1:19:A:LEU:H	1:20:A:VAL:H	4	0.11
(1,723)	1:19:A:LEU:H	1:20:A:VAL:H	8	0.11
(1,722)	1:128:A:ARG:H	1:127:A:VAL:HG11	3	0.11
(1,722)	1:128:A:ARG:H	1:127:A:VAL:HG12	14	0.11
(1,711)	1:74:A:ASP:H	1:73:A:ARG:HG2	18	0.11
(1,709)	1:74:A:ASP:H	1:73:A:ARG:HB3	18	0.11
(1,701)	1:137:A:LEU:H	1:130:A:VAL:HG23	17	0.11
(1,697)	1:137:A:LEU:H	1:137:A:LEU:HG	1	0.11
(1,697)	1:137:A:LEU:H	1:137:A:LEU:HG	6	0.11
(1,697)	1:137:A:LEU:H	1:137:A:LEU:HG	19	0.11
(1,655)	1:122:A:LEU:H	1:123:A:LYS:H	1	0.11
(1,655)	1:122:A:LEU:H	1:123:A:LYS:H	15	0.11
(1,655)	1:122:A:LEU:H	1:123:A:LYS:H	20	0.11
(1,641)	1:52:A:ILE:H	1:51:A:SER:HA	6	0.11
(1,639)	1:52:A:ILE:H	1:110:A:PHE:HD2	4	0.11
(1,639)	1:52:A:ILE:H	1:110:A:PHE:HD2	7	0.11
(1,639)	1:52:A:ILE:H	1:110:A:PHE:HD2	11	0.11
(1,639)	1:52:A:ILE:H	1:110:A:PHE:HD2	13	0.11
(1,601)	1:55:A:MET:H	1:55:A:MET:HB2	19	0.11
(1,587)	1:185:A:GLU:H	1:185:A:GLU:HB2	9	0.11
(1,586)	1:185:A:GLU:H	1:184:A:SER:HB2	2	0.11
(1,586)	1:185:A:GLU:H	1:184:A:SER:HB2	18	0.11
(1,582)	1:167:A:ILE:H	1:127:A:VAL:HG12	20	0.11
(1,573)	1:113:A:LEU:H	1:112:A:SER:HB2	13	0.11
(1,564)	1:104:A:LYS:H	1:103:A:GLU:HG3	6	0.11
(1,527)	1:151:A:GLU:H	1:79:A:LEU:HA	3	0.11
(1,520)	1:8:A:VAL:HG21	1:8:A:VAL:HB	7	0.11
(1,515)	1:37:A:LYS:HD2	1:34:A:TYR:HE1	1	0.11
(1,507)	1:153:A:HIS:HE1	1:132:A:HIS:HD2	2	0.11
(1,507)	1:153:A:HIS:HE1	1:132:A:HIS:HD2	12	0.11
(1,486)	1:21:A:LYS:HD2	1:30:A:LYS:HA	15	0.11
(1,415)	1:18:A:SER:HA	1:18:A:SER:HB3	1	0.11
(1,415)	1:18:A:SER:HA	1:18:A:SER:HB3	2	0.11
(1,415)	1:18:A:SER:HA	1:18:A:SER:HB3	18	0.11
(1,402)	1:176:A:ARG:HB2	1:176:A:ARG:HA	13	0.11
(1,385)	1:56:A:LYS:HB2	1:183:A:PRO:HA	18	0.11
(1,379)	1:72:A:VAL:HA	1:71:A:LEU:HB3	4	0.11
(1,379)	1:72:A:VAL:HA	1:71:A:LEU:HB3	7	0.11
(1,371)	1:19:A:LEU:HB2	1:18:A:SER:HB2	5	0.11
(1,371)	1:18:A:SER:HB3	1:19:A:LEU:HB2	7	0.11
(1,351)	1:56:A:LYS:HG2	1:56:A:LYS:HA	4	0.11
(1,351)	1:56:A:LYS:HG2	1:56:A:LYS:HA	17	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,334)	1:7:A:GLU:HB2	1:7:A:GLU:HA	12	0.11
(1,310)	1:14:A:ALA:HA	1:21:A:LYS:HD3	3	0.11
(1,304)	1:25:A:GLY:HA2	1:27:A:VAL:HB	5	0.11
(1,297)	1:19:A:LEU:HB3	1:18:A:SER:HB3	7	0.11
(1,297)	1:19:A:LEU:HB3	1:18:A:SER:HB2	14	0.11
(1,282)	1:37:A:LYS:HE3	1:67:A:LYS:HG2	11	0.11
(1,282)	1:37:A:LYS:HE3	1:67:A:LYS:HG2	18	0.11
(1,272)	1:87:A:LYS:HE3	1:79:A:LEU:HB2	12	0.11
(1,264)	1:81:A:ASN:HB2	1:83:A:ALA:HB2	12	0.11
(1,255)	1:106:A:GLN:HG2	1:105:A:ASP:HB3	3	0.11
(1,255)	1:106:A:GLN:HG2	1:105:A:ASP:HB3	12	0.11
(1,246)	1:87:A:LYS:HB2	1:79:A:LEU:HD23	10	0.11
(1,242)	1:4:A:LYS:HB3	1:4:A:LYS:HE3	15	0.11
(1,234)	1:60:A:MET:HG2	1:60:A:MET:HE2	2	0.11
(1,232)	1:30:A:LYS:HB3	1:30:A:LYS:HD3	4	0.11
(1,232)	1:30:A:LYS:HB3	1:30:A:LYS:HD3	9	0.11
(1,223)	1:159:A:GLU:HB2	1:162:A:SER:HB2	7	0.11
(1,216)	1:37:A:LYS:HG3	1:37:A:LYS:HD2	10	0.11
(1,216)	1:37:A:LYS:HG3	1:37:A:LYS:HD2	14	0.11
(1,216)	1:37:A:LYS:HG3	1:37:A:LYS:HD2	16	0.11
(1,214)	1:15:A:GLN:HB2	1:15:A:GLN:HG3	2	0.11
(1,214)	1:15:A:GLN:HB2	1:15:A:GLN:HG3	13	0.11
(1,204)	1:107:A:LYS:HD3	1:107:A:LYS:HG3	19	0.11
(1,200)	1:36:A:LYS:HG3	1:36:A:LYS:HD3	2	0.11
(1,200)	1:36:A:LYS:HG3	1:36:A:LYS:HD3	7	0.11
(1,192)	1:176:A:ARG:HG3	1:176:A:ARG:HB3	1	0.11
(1,192)	1:176:A:ARG:HG3	1:176:A:ARG:HB3	13	0.11
(1,190)	1:126:A:ILE:HD13	1:128:A:ARG:HG3	5	0.11
(1,169)	1:30:A:LYS:HG3	1:21:A:LYS:HE2	16	0.11
(1,169)	1:30:A:LYS:HG3	1:21:A:LYS:HE2	19	0.11
(1,146)	1:50:A:LYS:HG3	1:50:A:LYS:HE3	14	0.11
(1,103)	1:140:A:ILE:HD12	1:149:A:MET:HE2	5	0.11
(1,102)	1:109:A:ILE:HD13	1:109:A:ILE:HG21	5	0.11
(1,92)	1:17:A:LEU:H	1:16:A:SER:HB3	3	0.11
(1,78)	1:107:A:LYS:H	1:103:A:GLU:HG2	19	0.11
(1,77)	1:46:A:LYS:H	1:46:A:LYS:HD2	13	0.11
(1,77)	1:46:A:LYS:H	1:46:A:LYS:HD2	14	0.11
(1,77)	1:46:A:LYS:H	1:46:A:LYS:HD2	17	0.11
(1,72)	1:39:A:ARG:H	1:39:A:ARG:HB3	3	0.11
(1,39)	1:170:A:THR:H	1:93:A:LEU:HD21	15	0.11
(1,23)	1:22:A:ASP:H	1:21:A:LYS:HG3	4	0.11
(1,22)	1:130:A:VAL:H	1:129:A:GLU:HB3	11	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,13)	1:26:A:ALA:H	1:25:A:GLY:HA3	1	0.11
(1,13)	1:26:A:ALA:H	1:25:A:GLY:HA3	2	0.11
(1,13)	1:26:A:ALA:H	1:25:A:GLY:HA3	20	0.11
(1,11)	1:98:A:LEU:H	1:97:A:ILE:HG21	12	0.11
(1,3)	1:185:A:GLU:H	1:185:A:GLU:HG3	11	0.11
(1,3503)	1:78:A:PHE:HE1	1:78:A:PHE:H	13	0.1
(1,3498)	1:118:A:THR:HA	1:100:A:PHE:HD2	9	0.1
(1,3491)	1:62:A:ALA:HA	1:110:A:PHE:HD2	6	0.1
(1,3491)	1:62:A:ALA:HA	1:110:A:PHE:HD2	16	0.1
(1,3470)	1:66:A:LEU:HA	1:61:A:PHE:HE1	18	0.1
(1,3420)	1:69:A:LYS:HA	1:69:A:LYS:HD2	20	0.1
(1,3391)	1:11:A:GLU:HB3	1:12:A:ASP:HB2	15	0.1
(1,3342)	1:55:A:MET:HE3	1:61:A:PHE:HB3	16	0.1
(1,3332)	1:76:A:SER:HB3	1:88:A:GLU:HG2	18	0.1
(1,3296)	1:63:A:LYS:HE2	1:44:A:TYR:HD1	1	0.1
(1,3222)	1:77:A:VAL:HG21	1:78:A:PHE:H	10	0.1
(1,3213)	1:174:A:LEU:HD21	1:174:A:LEU:HB2	5	0.1
(1,3183)	1:144:A:MET:HA	1:145:A:THR:HG23	12	0.1
(1,3175)	1:33:A:SER:HB3	1:33:A:SER:HA	18	0.1
(1,3175)	1:33:A:SER:HB3	1:33:A:SER:HA	19	0.1
(1,3157)	1:22:A:ASP:HB2	1:22:A:ASP:HA	10	0.1
(1,3087)	1:58:A:GLY:HA2	1:54:A:ARG:HB2	17	0.1
(1,3078)	1:134:A:GLU:HG3	1:134:A:GLU:HA	8	0.1
(1,3078)	1:134:A:GLU:HG3	1:134:A:GLU:HA	18	0.1
(1,3026)	1:55:A:MET:HG2	1:55:A:MET:HE3	4	0.1
(1,3026)	1:55:A:MET:HG2	1:55:A:MET:HE1	20	0.1
(1,2965)	1:46:A:LYS:HE3	1:108:A:TYR:HE2	15	0.1
(1,2962)	1:66:A:LEU:HG	1:65:A:ASP:HB3	19	0.1
(1,2904)	1:140:A:ILE:HD11	1:128:A:ARG:HB3	7	0.1
(1,2900)	1:142:A:MET:HB2	1:126:A:ILE:HG12	20	0.1
(1,2886)	1:169:A:ASP:HA	1:172:A:ASN:HB2	1	0.1
(1,2875)	1:45:A:THR:HG22	1:45:A:THR:HB	3	0.1
(1,2875)	1:45:A:THR:HG21	1:45:A:THR:HB	7	0.1
(1,2875)	1:45:A:THR:HG22	1:45:A:THR:HB	20	0.1
(1,2855)	1:43:A:ILE:HA	1:108:A:TYR:HE2	16	0.1
(1,2834)	1:33:A:SER:HB3	1:30:A:LYS:HG2	13	0.1
(1,2822)	1:121:A:SER:HB2	1:185:A:GLU:HA	10	0.1
(1,2772)	1:29:A:SER:HA	1:32:A:ALA:HB3	13	0.1
(1,2763)	1:67:A:LYS:HB3	1:67:A:LYS:HA	8	0.1
(1,2760)	1:20:A:VAL:HA	1:20:A:VAL:HB	2	0.1
(1,2760)	1:20:A:VAL:HA	1:20:A:VAL:HB	13	0.1
(1,2756)	1:63:A:LYS:HA	1:44:A:TYR:HE1	13	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2751)	1:155:A:SER:HA	1:78:A:PHE:HE1	11	0.1
(1,2726)	1:127:A:VAL:HA	1:139:A:LEU:HB3	4	0.1
(1,2726)	1:127:A:VAL:HA	1:139:A:LEU:HB3	10	0.1
(1,2676)	1:55:A:MET:HA	1:55:A:MET:HG3	4	0.1
(1,2671)	1:59:A:GLN:HG3	1:59:A:GLN:HA	7	0.1
(1,2665)	1:70:A:LYS:HG2	1:70:A:LYS:HA	13	0.1
(1,2603)	1:28:A:ASP:HA	1:28:A:ASP:HB2	12	0.1
(1,2598)	1:32:A:ALA:HA	1:35:A:GLU:HA	1	0.1
(1,2598)	1:32:A:ALA:HA	1:35:A:GLU:HA	18	0.1
(1,2594)	1:14:A:ALA:HA	1:19:A:LEU:HB2	17	0.1
(1,2551)	1:147:A:PRO:HD2	1:142:A:MET:HG2	1	0.1
(1,2551)	1:147:A:PRO:HD2	1:142:A:MET:HG2	4	0.1
(1,2508)	1:73:A:ARG:HD2	1:166:A:ILE:HG12	3	0.1
(1,2508)	1:73:A:ARG:HD2	1:166:A:ILE:HG12	6	0.1
(1,2470)	1:157:A:LYS:HE3	1:134:A:GLU:HG3	17	0.1
(1,2460)	1:96:A:ASP:HB3	1:94:A:LEU:HB2	3	0.1
(1,2441)	1:146:A:ASP:HB2	1:147:A:PRO:HD3	10	0.1
(1,2437)	1:146:A:ASP:HB3	1:147:A:PRO:HD2	2	0.1
(1,2431)	1:179:A:ASP:HB3	1:179:A:ASP:HA	13	0.1
(1,2411)	1:41:A:ASN:HB3	1:44:A:TYR:HB3	4	0.1
(1,2411)	1:41:A:ASN:HB3	1:44:A:TYR:HB3	13	0.1
(1,2404)	1:34:A:TYR:HB2	1:34:A:TYR:HE2	4	0.1
(1,2369)	1:134:A:GLU:HG3	1:135:A:LYS:HG2	18	0.1
(1,2356)	1:128:A:ARG:HB3	1:130:A:VAL:H	20	0.1
(1,2353)	1:133:A:GLU:HG3	1:130:A:VAL:HG11	4	0.1
(1,2240)	1:103:A:GLU:HB3	1:108:A:TYR:HE1	6	0.1
(1,2239)	1:159:A:GLU:HB3	1:163:A:TRP:HD1	15	0.1
(1,2230)	1:11:A:GLU:HB2	1:11:A:GLU:HA	1	0.1
(1,2227)	1:178:A:GLU:HB3	1:178:A:GLU:HA	6	0.1
(1,2227)	1:178:A:GLU:HB3	1:178:A:GLU:HA	8	0.1
(1,2227)	1:178:A:GLU:HB3	1:178:A:GLU:HA	9	0.1
(1,2214)	1:10:A:GLN:HB3	1:10:A:GLN:HB2	4	0.1
(1,2214)	1:10:A:GLN:HB3	1:10:A:GLN:HB2	5	0.1
(1,2214)	1:10:A:GLN:HB3	1:10:A:GLN:HB2	11	0.1
(1,2214)	1:10:A:GLN:HB3	1:10:A:GLN:HB2	14	0.1
(1,2214)	1:10:A:GLN:HB3	1:10:A:GLN:HB2	15	0.1
(1,2214)	1:10:A:GLN:HB3	1:10:A:GLN:HB2	20	0.1
(1,2145)	1:36:A:LYS:HD2	1:71:A:LEU:HB2	6	0.1
(1,2130)	1:126:A:ILE:HG12	1:126:A:ILE:HA	6	0.1
(1,2119)	1:137:A:LEU:HD12	1:163:A:TRP:HB3	8	0.1
(1,2088)	1:125:A:LEU:HG	1:167:A:ILE:HG21	10	0.1
(1,2083)	1:182:A:ILE:HG12	1:182:A:ILE:HA	17	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2080)	1:182:A:ILE:HG13	1:123:A:LYS:HB3	8	0.1
(1,2051)	1:113:A:LEU:HD12	1:113:A:LEU:HD21	10	0.1
(1,2034)	1:123:A:LYS:HG2	1:123:A:LYS:HB3	11	0.1
(1,2034)	1:123:A:LYS:HG2	1:123:A:LYS:HB3	12	0.1
(1,2034)	1:123:A:LYS:HG2	1:123:A:LYS:HB3	16	0.1
(1,2026)	1:37:A:LYS:HG2	1:34:A:TYR:HA	8	0.1
(1,1943)	1:37:A:LYS:HG3	1:34:A:TYR:HD2	5	0.1
(1,1923)	1:67:A:LYS:HG2	1:44:A:TYR:HD2	3	0.1
(1,1921)	1:67:A:LYS:HG2	1:44:A:TYR:HE2	3	0.1
(1,1897)	1:86:A:LEU:HD22	1:86:A:LEU:HD12	15	0.1
(1,1889)	1:174:A:LEU:HD23	1:174:A:LEU:HG	16	0.1
(1,1873)	1:66:A:LEU:HD22	1:66:A:LEU:HD13	17	0.1
(1,1873)	1:66:A:LEU:HD21	1:66:A:LEU:HD12	18	0.1
(1,1871)	1:87:A:LYS:HG2	1:87:A:LYS:HE3	4	0.1
(1,1865)	1:95:A:THR:HG22	1:170:A:THR:HA	15	0.1
(1,1815)	1:173:A:THR:HG21	1:176:A:ARG:HB2	5	0.1
(1,1804)	1:127:A:VAL:HG11	1:127:A:VAL:HA	17	0.1
(1,1792)	1:122:A:LEU:HD12	1:122:A:LEU:HA	19	0.1
(1,1761)	1:97:A:ILE:HD11	1:99:A:VAL:HG13	14	0.1
(1,1745)	1:77:A:VAL:HG12	1:163:A:TRP:HD1	5	0.1
(1,1726)	1:20:A:VAL:HG23	1:21:A:LYS:HA	13	0.1
(1,1663)	1:120:A:ILE:HG22	1:141:A:SER:HB2	2	0.1
(1,1611)	1:182:A:ILE:HG22	1:182:A:ILE:HB	3	0.1
(1,1611)	1:182:A:ILE:HG21	1:182:A:ILE:HB	7	0.1
(1,1611)	1:182:A:ILE:HG22	1:182:A:ILE:HB	10	0.1
(1,1578)	1:182:A:ILE:HD11	1:182:A:ILE:HG12	2	0.1
(1,1578)	1:182:A:ILE:HD12	1:182:A:ILE:HG12	7	0.1
(1,1578)	1:182:A:ILE:HD11	1:182:A:ILE:HG12	8	0.1
(1,1578)	1:182:A:ILE:HD11	1:182:A:ILE:HG12	18	0.1
(1,1518)	1:109:A:ILE:HD11	1:102:A:GLN:HB2	17	0.1
(1,1517)	1:109:A:ILE:HD13	1:111:A:ALA:HA	11	0.1
(1,1508)	1:69:A:LYS:H	1:68:A:ARG:HG2	12	0.1
(1,1503)	1:23:A:VAL:H	1:27:A:VAL:HB	4	0.1
(1,1485)	1:9:A:GLU:H	1:9:A:GLU:HB3	3	0.1
(1,1484)	1:59:A:GLN:H	1:60:A:MET:H	6	0.1
(1,1484)	1:59:A:GLN:H	1:60:A:MET:H	11	0.1
(1,1484)	1:59:A:GLN:H	1:60:A:MET:H	20	0.1
(1,1471)	1:37:A:LYS:H	1:37:A:LYS:HG3	1	0.1
(1,1471)	1:37:A:LYS:H	1:37:A:LYS:HG3	15	0.1
(1,1471)	1:37:A:LYS:H	1:37:A:LYS:HG3	18	0.1
(1,1471)	1:37:A:LYS:H	1:37:A:LYS:HG3	20	0.1
(1,1454)	1:35:A:GLU:H	1:35:A:GLU:HG2	18	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1438)	1:172:A:ASN:H	1:173:A:THR:HB	7	0.1
(1,1438)	1:172:A:ASN:H	1:173:A:THR:HB	11	0.1
(1,1426)	1:181:A:GLY:H	1:180:A:GLU:HB3	5	0.1
(1,1422)	1:134:A:GLU:H	1:135:A:LYS:HD2	13	0.1
(1,1406)	1:172:A:ASN:HD22	1:172:A:ASN:HA	9	0.1
(1,1388)	1:165:A:GLN:HE22	1:166:A:ILE:HG12	18	0.1
(1,1367)	1:135:A:LYS:H	1:135:A:LYS:HG2	10	0.1
(1,1347)	1:51:A:SER:H	1:50:A:LYS:HA	5	0.1
(1,1229)	1:156:A:SER:H	1:154:A:ALA:HB1	8	0.1
(1,1142)	1:165:A:GLN:H	1:164:A:ILE:HG23	4	0.1
(1,1142)	1:165:A:GLN:H	1:164:A:ILE:HG22	17	0.1
(1,1138)	1:165:A:GLN:H	1:162:A:SER:HA	9	0.1
(1,1116)	1:65:A:ASP:H	1:65:A:ASP:HB3	7	0.1
(1,1100)	1:41:A:ASN:H	1:37:A:LYS:HA	3	0.1
(1,1100)	1:41:A:ASN:H	1:37:A:LYS:HA	10	0.1
(1,1070)	1:162:A:SER:H	1:161:A:ASN:HD21	1	0.1
(1,1028)	1:138:A:PHE:H	1:130:A:VAL:HB	9	0.1
(1,993)	1:27:A:VAL:H	1:27:A:VAL:HG13	7	0.1
(1,985)	1:158:A:GLU:H	1:156:A:SER:HA	7	0.1
(1,985)	1:158:A:GLU:H	1:156:A:SER:HA	8	0.1
(1,960)	1:77:A:VAL:H	1:90:A:GLN:HA	10	0.1
(1,924)	1:177:A:ASP:H	1:177:A:ASP:HB3	3	0.1
(1,895)	1:176:A:ARG:H	1:176:A:ARG:HB2	15	0.1
(1,895)	1:176:A:ARG:H	1:176:A:ARG:HB2	18	0.1
(1,886)	1:90:A:GLN:H	1:103:A:GLU:H	5	0.1
(1,853)	1:179:A:ASP:H	1:178:A:GLU:HA	18	0.1
(1,828)	1:86:A:LEU:H	1:86:A:LEU:HD11	19	0.1
(1,820)	1:86:A:LEU:H	1:85:A:ARG:H	10	0.1
(1,750)	1:160:A:ARG:H	1:159:A:GLU:HB2	8	0.1
(1,665)	1:24:A:ILE:H	1:24:A:ILE:HG12	20	0.1
(1,655)	1:122:A:LEU:H	1:123:A:LYS:H	12	0.1
(1,655)	1:122:A:LEU:H	1:123:A:LYS:H	17	0.1
(1,639)	1:52:A:ILE:H	1:110:A:PHE:HD2	3	0.1
(1,584)	1:185:A:GLU:H	1:184:A:SER:HA	4	0.1
(1,527)	1:151:A:GLU:H	1:79:A:LEU:HA	19	0.1
(1,520)	1:8:A:VAL:HG22	1:8:A:VAL:HB	9	0.1
(1,507)	1:153:A:HIS:HE1	1:132:A:HIS:HD2	5	0.1
(1,486)	1:21:A:LYS:HD2	1:30:A:LYS:HA	1	0.1
(1,486)	1:21:A:LYS:HD2	1:30:A:LYS:HA	19	0.1
(1,422)	1:37:A:LYS:HD2	1:37:A:LYS:HE2	19	0.1
(1,415)	1:18:A:SER:HA	1:18:A:SER:HB3	19	0.1
(1,379)	1:72:A:VAL:HA	1:71:A:LEU:HB3	9	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,379)	1:72:A:VAL:HA	1:71:A:LEU:HB3	20	0.1
(1,344)	1:162:A:SER:HB2	1:162:A:SER:HA	11	0.1
(1,344)	1:162:A:SER:HB3	1:162:A:SER:HA	19	0.1
(1,334)	1:7:A:GLU:HB2	1:7:A:GLU:HA	20	0.1
(1,331)	1:15:A:GLN:HA	1:15:A:GLN:HG2	5	0.1
(1,319)	1:22:A:ASP:HA	1:23:A:VAL:HG13	10	0.1
(1,319)	1:22:A:ASP:HA	1:23:A:VAL:HG11	14	0.1
(1,294)	1:22:A:ASP:HB2	1:21:A:LYS:HA	20	0.1
(1,215)	1:15:A:GLN:HB3	1:15:A:GLN:HG2	1	0.1
(1,204)	1:107:A:LYS:HD3	1:107:A:LYS:HG3	17	0.1
(1,200)	1:36:A:LYS:HG3	1:36:A:LYS:HD3	8	0.1
(1,192)	1:176:A:ARG:HG3	1:176:A:ARG:HB3	3	0.1
(1,141)	1:56:A:LYS:HG2	1:56:A:LYS:HB3	10	0.1
(1,103)	1:149:A:MET:HE3	1:140:A:ILE:HG23	20	0.1
(1,93)	1:136:A:GLY:H	1:133:A:GLU:HB3	8	0.1
(1,87)	1:9:A:GLU:H	1:8:A:VAL:HG13	8	0.1
(1,68)	1:15:A:GLN:HE22	1:15:A:GLN:HG2	4	0.1
(1,27)	1:50:A:LYS:H	1:51:A:SER:HB2	17	0.1
(1,13)	1:26:A:ALA:H	1:25:A:GLY:HA3	5	0.1
(1,13)	1:26:A:ALA:H	1:25:A:GLY:HA3	16	0.1
(1,11)	1:98:A:LEU:H	1:97:A:ILE:HG22	7	0.1

10 Dihedral-angle violation analysis [i](#)

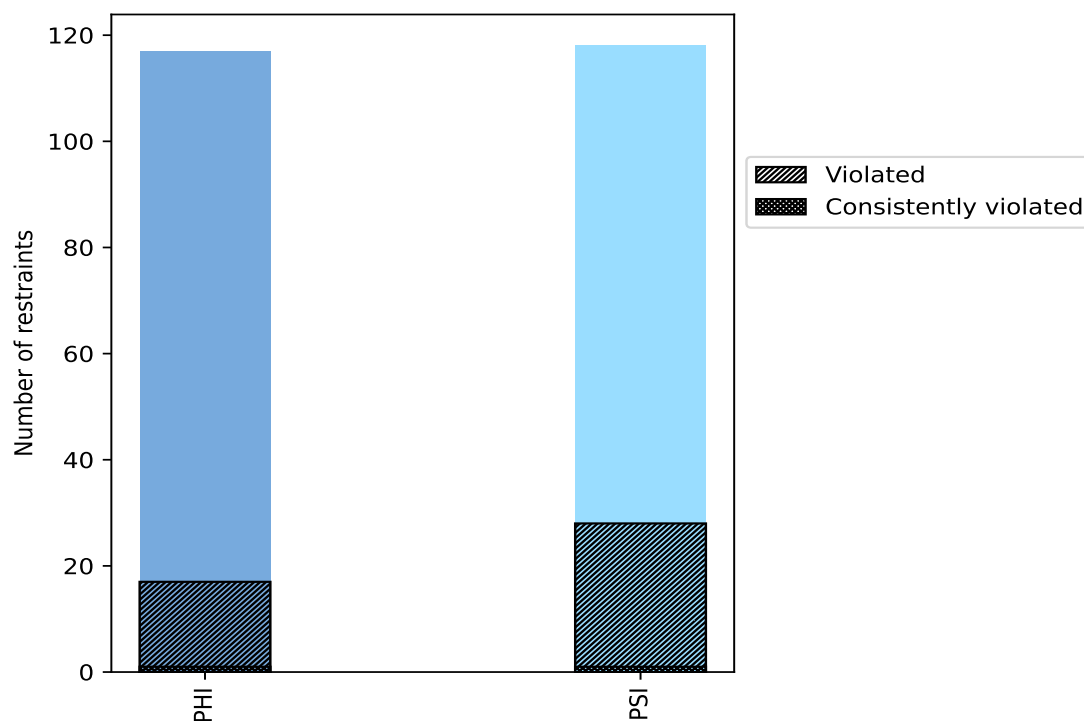
10.1 Summary of dihedral-angle violations [i](#)

The following table provides the summary of dihedral-angle violations in different dihedral-angle types. Violations less than 1° are not included in the calculation.

Angle type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
PHI	117	49.8	17	14.5	7.2	1	0.9	0.4
PSI	118	50.2	28	23.7	11.9	1	0.8	0.4
Total	235	100.0	45	19.1	19.1	2	0.9	0.9

¹ percentage calculated with respect to total number of dihedral-angle restraints, ² percentage calculated with respect to number of restraints in a particular dihedral-angle type, ³ violated in at least one model, ⁴ violated in all the models

10.1.1 Bar chart : Distribution of dihedral-angles and violations [i](#)



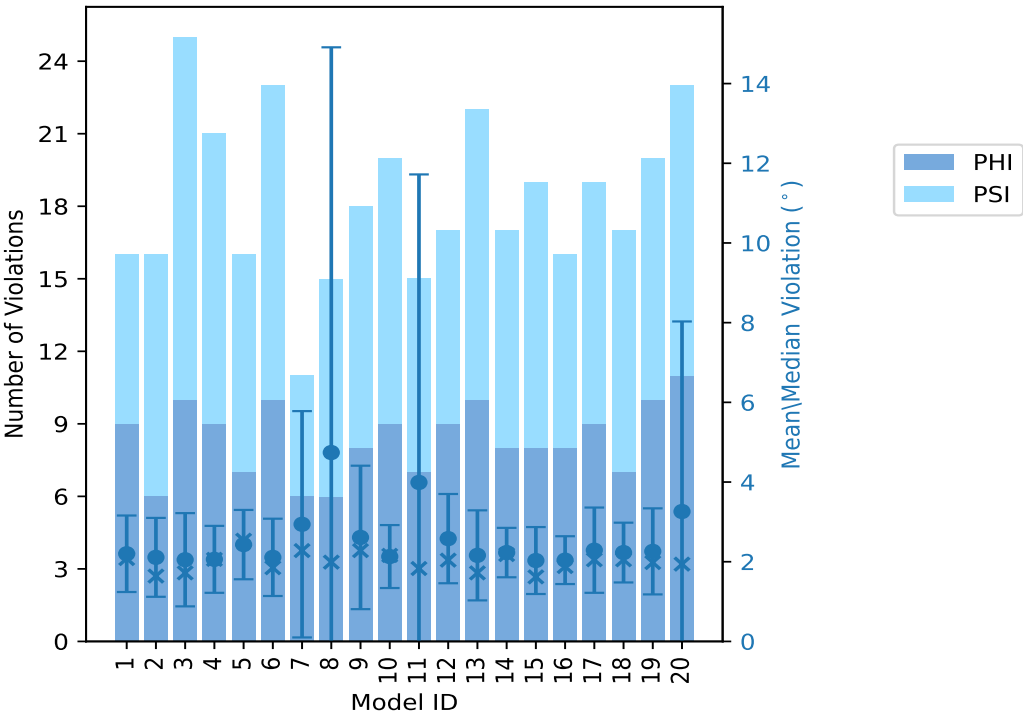
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

10.2 Dihedral-angle violation statistics for each model

The following table provides the dihedral-angle violation statistics for each model in the ensemble. Violations less than 1° are not included in the statistics.

Model ID	Number of violations			Mean (°)	Max (°)	SD (°)	Median (°)
	PHI	PSI	Total				
1	9	7	16	2.2	4.41	0.96	2.08
2	6	10	16	2.11	4.9	0.99	1.64
3	10	15	25	2.05	6.9	1.17	1.72
4	9	12	21	2.06	4.08	0.84	2.06
5	7	9	16	2.43	4.08	0.87	2.54
6	10	13	23	2.11	4.4	0.97	1.85
7	6	5	11	2.94	11.76	2.84	2.28
8	6	9	15	4.74	42.65	10.17	1.99
9	8	10	18	2.61	9.3	1.8	2.28
10	9	11	20	2.13	3.45	0.79	2.16
11	7	8	15	3.99	32.77	7.73	1.83
12	9	8	17	2.58	4.88	1.12	2.04
13	10	12	22	2.16	5.61	1.13	1.72
14	8	9	17	2.23	3.64	0.62	2.18
15	8	11	19	2.03	3.88	0.84	1.62
16	8	8	16	2.04	3.4	0.6	1.88
17	9	10	19	2.29	5.57	1.07	2.05
18	7	10	17	2.23	4.02	0.75	2.05
19	10	10	20	2.26	5.47	1.08	1.98
20	11	12	23	3.26	25.31	4.77	1.94

10.2.1 Bar graph : Dihedral violation statistics for each model [i](#)



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

10.3 Dihedral-angle violation statistics for the ensemble [i](#)

Violation analysis may find that some restraints are violated in very 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 ensemble.

Number of violated restraints			Fraction of the ensemble	
PHI	PSI	Total	Count ¹	%
5	5	10	1	5.0
0	3	3	2	10.0
0	1	1	3	15.0
0	4	4	4	20.0
0	2	2	5	25.0
2	2	4	6	30.0
1	0	1	7	35.0
0	2	2	8	40.0
0	2	2	9	45.0
0	0	0	10	50.0
0	0	0	11	55.0

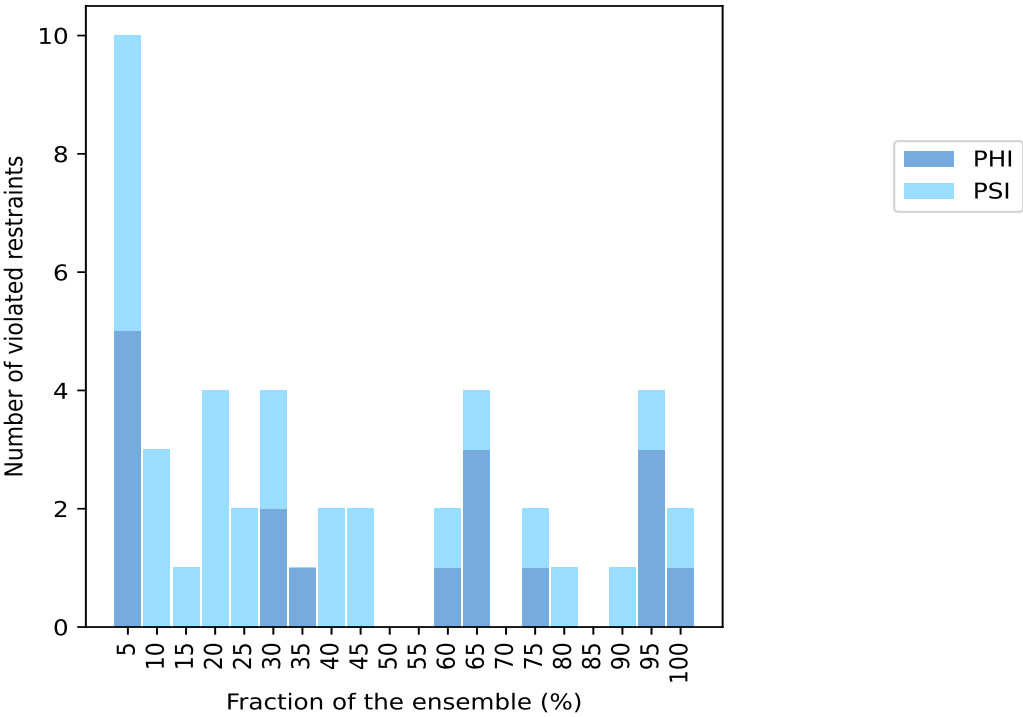
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Number of violated restraints			Fraction of the ensemble	
PHI	PSI	Total	Count ¹	%
1	1	2	12	60.0
3	1	4	13	65.0
0	0	0	14	70.0
1	1	2	15	75.0
0	1	1	16	80.0
0	0	0	17	85.0
0	1	1	18	90.0
3	1	4	19	95.0
1	1	2	20	100.0

¹ Number of models with violations

10.3.1 Bar graph : Dihedral-angle Violation statistics for the ensemble ⓘ

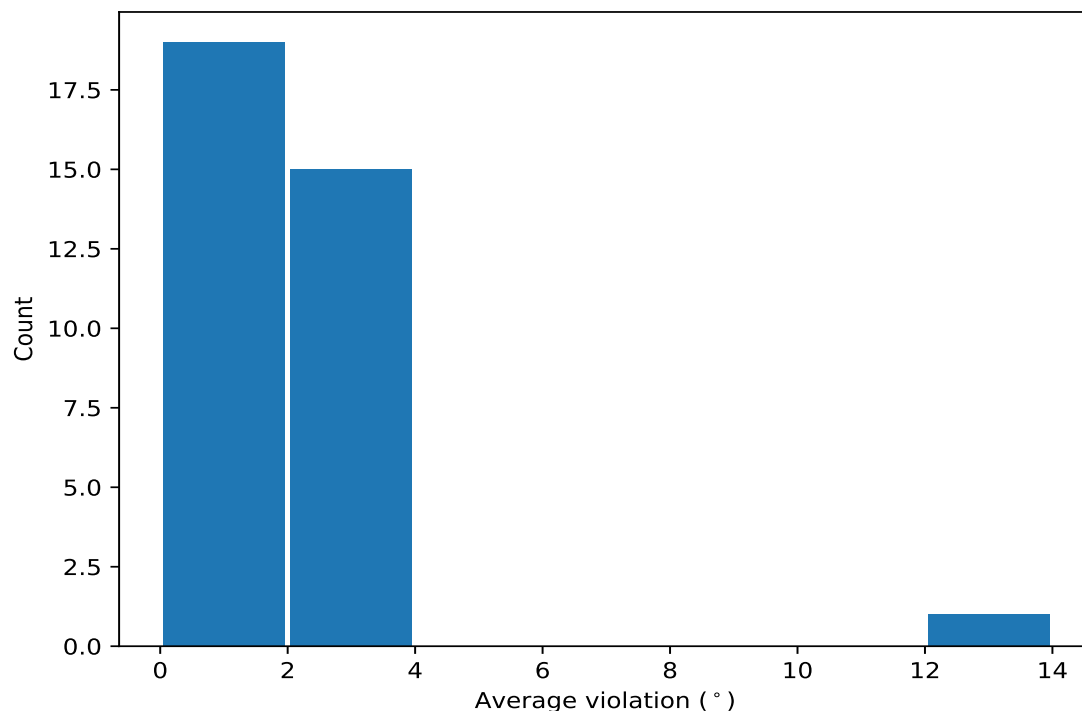


10.4 Most violated dihedral-angle restraints in the ensemble ⓘ

10.4.1 Histogram : Distribution of mean dihedral-angle 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



10.4.2 Table: Most violated dihedral-angle restraints [i](#)

The following table provides the mean and the standard deviation of the violation 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.

Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,38)	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	1:44:A:TYR:N	20	3.25	0.59	3.22
(1,172)	1:137:A:LEU:C	1:138:A:PHE:N	1:138:A:PHE:CA	1:138:A:PHE:C	20	2.24	0.47	2.21
(1,156)	1:124:A:LYS:C	1:125:A:LEU:N	1:125:A:LEU:CA	1:125:A:LEU:C	19	2.61	0.68	2.85
(1,113)	1:90:A:GLN:N	1:90:A:GLN:CA	1:90:A:GLN:C	1:91:A:ALA:N	19	2.52	0.64	2.58
(1,61)	1:59:A:GLN:C	1:60:A:MET:N	1:60:A:MET:CA	1:60:A:MET:C	19	2.26	0.47	2.21
(1,134)	1:101:A:LEU:C	1:102:A:GLN:N	1:102:A:GLN:CA	1:102:A:GLN:C	19	1.92	0.52	1.91
(1,177)	1:140:A:ILE:N	1:140:A:ILE:CA	1:140:A:ILE:C	1:141:A:SER:N	18	1.97	0.44	1.92
(1,143)	1:107:A:LYS:N	1:107:A:LYS:CA	1:107:A:LYS:C	1:108:A:TYR:N	16	1.7	0.4	1.68
(1,26)	1:37:A:LYS:N	1:37:A:LYS:CA	1:37:A:LYS:C	1:38:A:VAL:N	15	3.35	1.1	3.38
(1,186)	1:151:A:GLU:C	1:152:A:VAL:N	1:152:A:VAL:CA	1:152:A:VAL:C	15	2.03	0.88	1.89
(1,139)	1:105:A:ASP:N	1:105:A:ASP:CA	1:105:A:ASP:C	1:106:A:GLN:N	13	2.58	1.13	2.41
(1,53)	1:55:A:MET:C	1:56:A:LYS:N	1:56:A:LYS:CA	1:56:A:LYS:C	13	2.2	1.16	1.59
(1,226)	1:172:A:ASN:C	1:173:A:THR:N	1:173:A:THR:CA	1:173:A:THR:C	13	1.94	0.92	1.64
(1,152)	1:119:A:VAL:C	1:120:A:ILE:N	1:120:A:ILE:CA	1:120:A:ILE:C	13	1.56	0.5	1.55
(1,8)	1:22:A:ASP:N	1:22:A:ASP:CA	1:22:A:ASP:C	1:23:A:VAL:N	12	12.48	12.96	5.65
(1,234)	1:176:A:ARG:C	1:177:A:ASP:N	1:177:A:ASP:CA	1:177:A:ASP:C	12	1.96	0.68	1.92
(1,187)	1:152:A:VAL:N	1:152:A:VAL:CA	1:152:A:VAL:C	1:153:A:HIS:N	9	1.93	0.62	1.64
(1,84)	1:72:A:VAL:N	1:72:A:VAL:CA	1:72:A:VAL:C	1:73:A:ARG:N	9	1.55	0.68	1.26
(1,235)	1:177:A:ASP:N	1:177:A:ASP:CA	1:177:A:ASP:C	1:178:A:GLU:N	8	2.66	1.16	2.38
(1,109)	1:88:A:GLU:N	1:88:A:GLU:CA	1:88:A:GLU:C	1:89:A:VAL:N	8	1.27	0.15	1.28

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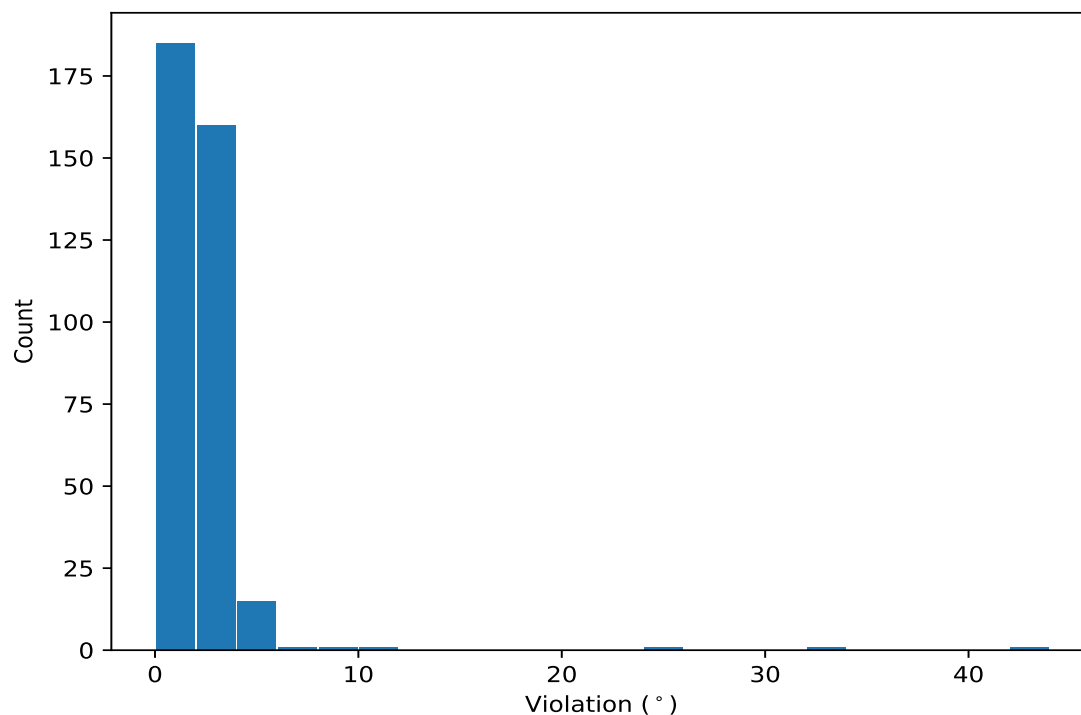
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,63)	1:60:A:MET:C	1:61:A:PHE:N	1:61:A:PHE:CA	1:61:A:PHE:C	7	1.25	0.2	1.15
(1,65)	1:61:A:PHE:C	1:62:A:ALA:N	1:62:A:ALA:CA	1:62:A:ALA:C	6	2.12	0.79	2.41
(1,123)	1:95:A:THR:N	1:95:A:THR:CA	1:95:A:THR:C	1:96:A:ASP:N	6	1.75	0.83	1.44
(1,121)	1:94:A:LEU:N	1:94:A:LEU:CA	1:94:A:LEU:C	1:95:A:THR:N	6	1.55	0.34	1.46
(1,92)	1:79:A:LEU:C	1:80:A:LYS:N	1:80:A:LYS:CA	1:80:A:LYS:C	6	1.26	0.2	1.18
(1,155)	1:121:A:SER:N	1:121:A:SER:CA	1:121:A:SER:C	1:122:A:LEU:N	5	1.71	0.38	1.84
(1,4)	1:9:A:GLU:N	1:9:A:GLU:CA	1:9:A:GLU:C	1:10:A:GLN:N	5	1.55	0.44	1.69
(1,48)	1:49:A:SER:N	1:49:A:SER:CA	1:49:A:SER:C	1:50:A:LYS:N	4	2.25	0.69	2.43
(1,185)	1:151:A:GLU:N	1:151:A:GLU:CA	1:151:A:GLU:C	1:152:A:VAL:N	4	1.87	0.74	1.89
(1,147)	1:114:A:ASP:N	1:114:A:ASP:CA	1:114:A:ASP:C	1:115:A:GLN:N	4	1.69	0.24	1.61
(1,10)	1:29:A:SER:N	1:29:A:SER:CA	1:29:A:SER:C	1:30:A:LYS:N	4	1.54	0.14	1.56
(1,163)	1:128:A:ARG:N	1:128:A:ARG:CA	1:128:A:ARG:C	1:129:A:GLU:N	3	3.0	0.28	2.96
(1,52)	1:55:A:MET:N	1:55:A:MET:CA	1:55:A:MET:C	1:56:A:LYS:N	2	2.98	0.36	2.98
(1,54)	1:56:A:LYS:N	1:56:A:LYS:CA	1:56:A:LYS:C	1:57:A:SER:N	2	2.42	0.37	2.42
(1,60)	1:59:A:GLN:N	1:59:A:GLN:CA	1:59:A:GLN:C	1:60:A:MET:N	2	1.17	0.16	1.17

¹ Number of violated models, ²Standard deviation, All angle values are in degree (°)

10.5 All violated dihedral-angle restraints [i](#)

10.5.1 Histogram : Distribution of violations [i](#)

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



10.5.2 Table: All violated dihedral-angle restraints [\(i\)](#)

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.

Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,8)	1:22:A:ASP:N	1:22:A:ASP:CA	1:22:A:ASP:C	1:23:A:VAL:N	8	42.65
(1,8)	1:22:A:ASP:N	1:22:A:ASP:CA	1:22:A:ASP:C	1:23:A:VAL:N	11	32.77
(1,8)	1:22:A:ASP:N	1:22:A:ASP:CA	1:22:A:ASP:C	1:23:A:VAL:N	20	25.31
(1,8)	1:22:A:ASP:N	1:22:A:ASP:CA	1:22:A:ASP:C	1:23:A:VAL:N	7	11.76
(1,8)	1:22:A:ASP:N	1:22:A:ASP:CA	1:22:A:ASP:C	1:23:A:VAL:N	9	9.3
(1,8)	1:22:A:ASP:N	1:22:A:ASP:CA	1:22:A:ASP:C	1:23:A:VAL:N	3	6.9
(1,26)	1:37:A:LYS:N	1:37:A:LYS:CA	1:37:A:LYS:C	1:38:A:VAL:N	13	5.61
(1,53)	1:55:A:MET:C	1:56:A:LYS:N	1:56:A:LYS:CA	1:56:A:LYS:C	17	5.57
(1,139)	1:105:A:ASP:N	1:105:A:ASP:CA	1:105:A:ASP:C	1:106:A:GLN:N	19	5.47
(1,26)	1:37:A:LYS:N	1:37:A:LYS:CA	1:37:A:LYS:C	1:38:A:VAL:N	2	4.9
(1,235)	1:177:A:ASP:N	1:177:A:ASP:CA	1:177:A:ASP:C	1:178:A:GLU:N	12	4.88
(1,226)	1:172:A:ASN:C	1:173:A:THR:N	1:173:A:THR:CA	1:173:A:THR:C	12	4.66
(1,186)	1:151:A:GLU:C	1:152:A:VAL:N	1:152:A:VAL:CA	1:152:A:VAL:C	8	4.6
(1,26)	1:37:A:LYS:N	1:37:A:LYS:CA	1:37:A:LYS:C	1:38:A:VAL:N	1	4.41
(1,8)	1:22:A:ASP:N	1:22:A:ASP:CA	1:22:A:ASP:C	1:23:A:VAL:N	6	4.4
(1,38)	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	1:44:A:TYR:N	6	4.18
(1,8)	1:22:A:ASP:N	1:22:A:ASP:CA	1:22:A:ASP:C	1:23:A:VAL:N	12	4.13
(1,38)	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	1:44:A:TYR:N	4	4.08
(1,26)	1:37:A:LYS:N	1:37:A:LYS:CA	1:37:A:LYS:C	1:38:A:VAL:N	5	4.08
(1,8)	1:22:A:ASP:N	1:22:A:ASP:CA	1:22:A:ASP:C	1:23:A:VAL:N	18	4.02
(1,38)	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	1:44:A:TYR:N	17	4.01
(1,38)	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	1:44:A:TYR:N	9	3.9
(1,156)	1:124:A:LYS:C	1:125:A:LEU:N	1:125:A:LEU:CA	1:125:A:LEU:C	15	3.88
(1,235)	1:177:A:ASP:N	1:177:A:ASP:CA	1:177:A:ASP:C	1:178:A:GLU:N	20	3.76
(1,139)	1:105:A:ASP:N	1:105:A:ASP:CA	1:105:A:ASP:C	1:106:A:GLN:N	13	3.74
(1,3)	1:8:A:VAL:C	1:9:A:GLU:N	1:9:A:GLU:CA	1:9:A:GLU:C	20	3.69
(1,38)	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	1:44:A:TYR:N	14	3.64
(1,234)	1:176:A:ARG:C	1:177:A:ASP:N	1:177:A:ASP:CA	1:177:A:ASP:C	1	3.61
(1,26)	1:37:A:LYS:N	1:37:A:LYS:CA	1:37:A:LYS:C	1:38:A:VAL:N	12	3.61
(1,123)	1:95:A:THR:N	1:95:A:THR:CA	1:95:A:THR:C	1:96:A:ASP:N	4	3.58
(1,26)	1:37:A:LYS:N	1:37:A:LYS:CA	1:37:A:LYS:C	1:38:A:VAL:N	9	3.53
(1,8)	1:22:A:ASP:N	1:22:A:ASP:CA	1:22:A:ASP:C	1:23:A:VAL:N	13	3.53
(1,38)	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	1:44:A:TYR:N	18	3.51
(1,113)	1:90:A:GLN:N	1:90:A:GLN:CA	1:90:A:GLN:C	1:91:A:ALA:N	19	3.45
(1,38)	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	1:44:A:TYR:N	10	3.45
(1,8)	1:22:A:ASP:N	1:22:A:ASP:CA	1:22:A:ASP:C	1:23:A:VAL:N	10	3.45
(1,156)	1:124:A:LYS:C	1:125:A:LEU:N	1:125:A:LEU:CA	1:125:A:LEU:C	16	3.4
(1,38)	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	1:44:A:TYR:N	11	3.39
(1,26)	1:37:A:LYS:N	1:37:A:LYS:CA	1:37:A:LYS:C	1:38:A:VAL:N	4	3.39
(1,26)	1:37:A:LYS:N	1:37:A:LYS:CA	1:37:A:LYS:C	1:38:A:VAL:N	20	3.38
(1,156)	1:124:A:LYS:C	1:125:A:LEU:N	1:125:A:LEU:CA	1:125:A:LEU:C	14	3.37
(1,163)	1:128:A:ARG:N	1:128:A:ARG:CA	1:128:A:ARG:C	1:129:A:GLU:N	5	3.36
(1,52)	1:55:A:MET:N	1:55:A:MET:CA	1:55:A:MET:C	1:56:A:LYS:N	17	3.34
(1,235)	1:177:A:ASP:N	1:177:A:ASP:CA	1:177:A:ASP:C	1:178:A:GLU:N	5	3.33
(1,26)	1:37:A:LYS:N	1:37:A:LYS:CA	1:37:A:LYS:C	1:38:A:VAL:N	19	3.32
(1,139)	1:105:A:ASP:N	1:105:A:ASP:CA	1:105:A:ASP:C	1:106:A:GLN:N	2	3.31
(1,113)	1:90:A:GLN:N	1:90:A:GLN:CA	1:90:A:GLN:C	1:91:A:ALA:N	1	3.3

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,38)	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	1:44:A:TYR:N	15	3.28
(1,172)	1:137:A:LEU:C	1:138:A:PHE:N	1:138:A:PHE:CA	1:138:A:PHE:C	19	3.26
(1,26)	1:37:A:LYS:N	1:37:A:LYS:CA	1:37:A:LYS:C	1:38:A:VAL:N	15	3.26
(1,156)	1:124:A:LYS:C	1:125:A:LEU:N	1:125:A:LEU:CA	1:125:A:LEU:C	11	3.25
(1,84)	1:72:A:VAL:N	1:72:A:VAL:CA	1:72:A:VAL:C	1:73:A:ARG:N	20	3.25
(1,38)	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	1:44:A:TYR:N	5	3.24
(1,113)	1:90:A:GLN:N	1:90:A:GLN:CA	1:90:A:GLN:C	1:91:A:ALA:N	20	3.2
(1,38)	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	1:44:A:TYR:N	16	3.19
(1,186)	1:151:A:GLU:C	1:152:A:VAL:N	1:152:A:VAL:CA	1:152:A:VAL:C	10	3.16
(1,38)	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	1:44:A:TYR:N	20	3.16
(1,113)	1:90:A:GLN:N	1:90:A:GLN:CA	1:90:A:GLN:C	1:91:A:ALA:N	13	3.14
(1,156)	1:124:A:LYS:C	1:125:A:LEU:N	1:125:A:LEU:CA	1:125:A:LEU:C	5	3.13
(1,61)	1:59:A:GLN:C	1:60:A:MET:N	1:60:A:MET:CA	1:60:A:MET:C	9	3.12
(1,38)	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	1:44:A:TYR:N	2	3.12
(1,139)	1:105:A:ASP:N	1:105:A:ASP:CA	1:105:A:ASP:C	1:106:A:GLN:N	15	3.11
(1,53)	1:55:A:MET:C	1:56:A:LYS:N	1:56:A:LYS:CA	1:56:A:LYS:C	6	3.11
(1,156)	1:124:A:LYS:C	1:125:A:LEU:N	1:125:A:LEU:CA	1:125:A:LEU:C	19	3.1
(1,113)	1:90:A:GLN:N	1:90:A:GLN:CA	1:90:A:GLN:C	1:91:A:ALA:N	2	3.1
(1,65)	1:61:A:PHE:C	1:62:A:ALA:N	1:62:A:ALA:CA	1:62:A:ALA:C	18	3.08
(1,38)	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	1:44:A:TYR:N	12	3.07
(1,38)	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	1:44:A:TYR:N	13	3.04
(1,113)	1:90:A:GLN:N	1:90:A:GLN:CA	1:90:A:GLN:C	1:91:A:ALA:N	3	3.02
(1,26)	1:37:A:LYS:N	1:37:A:LYS:CA	1:37:A:LYS:C	1:38:A:VAL:N	6	3.02
(1,156)	1:124:A:LYS:C	1:125:A:LEU:N	1:125:A:LEU:CA	1:125:A:LEU:C	12	3.01
(1,187)	1:152:A:VAL:N	1:152:A:VAL:CA	1:152:A:VAL:C	1:153:A:HIS:N	9	3.0
(1,38)	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	1:44:A:TYR:N	8	3.0
(1,163)	1:128:A:ARG:N	1:128:A:ARG:CA	1:128:A:ARG:C	1:129:A:GLU:N	19	2.96
(1,152)	1:119:A:VAL:C	1:120:A:ILE:N	1:120:A:ILE:CA	1:120:A:ILE:C	20	2.96
(1,48)	1:49:A:SER:N	1:49:A:SER:CA	1:49:A:SER:C	1:50:A:LYS:N	10	2.95
(1,139)	1:105:A:ASP:N	1:105:A:ASP:CA	1:105:A:ASP:C	1:106:A:GLN:N	14	2.94
(1,156)	1:124:A:LYS:C	1:125:A:LEU:N	1:125:A:LEU:CA	1:125:A:LEU:C	13	2.92
(1,61)	1:59:A:GLN:C	1:60:A:MET:N	1:60:A:MET:CA	1:60:A:MET:C	3	2.91
(1,187)	1:152:A:VAL:N	1:152:A:VAL:CA	1:152:A:VAL:C	1:153:A:HIS:N	6	2.9
(1,61)	1:59:A:GLN:C	1:60:A:MET:N	1:60:A:MET:CA	1:60:A:MET:C	4	2.89
(1,113)	1:90:A:GLN:N	1:90:A:GLN:CA	1:90:A:GLN:C	1:91:A:ALA:N	6	2.88
(1,172)	1:137:A:LEU:C	1:138:A:PHE:N	1:138:A:PHE:CA	1:138:A:PHE:C	20	2.87
(1,38)	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	1:44:A:TYR:N	3	2.87
(1,156)	1:124:A:LYS:C	1:125:A:LEU:N	1:125:A:LEU:CA	1:125:A:LEU:C	17	2.86
(1,156)	1:124:A:LYS:C	1:125:A:LEU:N	1:125:A:LEU:CA	1:125:A:LEU:C	3	2.85
(1,38)	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	1:44:A:TYR:N	1	2.85
(1,226)	1:172:A:ASN:C	1:173:A:THR:N	1:173:A:THR:CA	1:173:A:THR:C	7	2.84
(1,53)	1:55:A:MET:C	1:56:A:LYS:N	1:56:A:LYS:CA	1:56:A:LYS:C	10	2.84
(1,113)	1:90:A:GLN:N	1:90:A:GLN:CA	1:90:A:GLN:C	1:91:A:ALA:N	10	2.83
(1,172)	1:137:A:LEU:C	1:138:A:PHE:N	1:138:A:PHE:CA	1:138:A:PHE:C	13	2.8
(1,48)	1:49:A:SER:N	1:49:A:SER:CA	1:49:A:SER:C	1:50:A:LYS:N	12	2.8
(1,172)	1:137:A:LEU:C	1:138:A:PHE:N	1:138:A:PHE:CA	1:138:A:PHE:C	5	2.79
(1,54)	1:56:A:LYS:N	1:56:A:LYS:CA	1:56:A:LYS:C	1:57:A:SER:N	6	2.79
(1,172)	1:137:A:LEU:C	1:138:A:PHE:N	1:138:A:PHE:CA	1:138:A:PHE:C	11	2.77
(1,134)	1:101:A:LEU:C	1:102:A:GLN:N	1:102:A:GLN:CA	1:102:A:GLN:C	9	2.77
(1,177)	1:140:A:ILE:N	1:140:A:ILE:CA	1:140:A:ILE:C	1:141:A:SER:N	16	2.75
(1,113)	1:90:A:GLN:N	1:90:A:GLN:CA	1:90:A:GLN:C	1:91:A:ALA:N	18	2.75

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,177)	1:140:A:ILE:N	1:140:A:ILE:CA	1:140:A:ILE:C	1:141:A:SER:N	1	2.72
(1,65)	1:61:A:PHE:C	1:62:A:ALA:N	1:62:A:ALA:CA	1:62:A:ALA:C	5	2.68
(1,186)	1:151:A:GLU:C	1:152:A:VAL:N	1:152:A:VAL:CA	1:152:A:VAL:C	18	2.67
(1,163)	1:128:A:ARG:N	1:128:A:ARG:CA	1:128:A:ARG:C	1:129:A:GLU:N	10	2.67
(1,134)	1:101:A:LEU:C	1:102:A:GLN:N	1:102:A:GLN:CA	1:102:A:GLN:C	3	2.65
(1,185)	1:151:A:GLU:N	1:151:A:GLU:CA	1:151:A:GLU:C	1:152:A:VAL:N	19	2.63
(1,52)	1:55:A:MET:N	1:55:A:MET:CA	1:55:A:MET:C	1:56:A:LYS:N	6	2.63
(1,177)	1:140:A:ILE:N	1:140:A:ILE:CA	1:140:A:ILE:C	1:141:A:SER:N	19	2.62
(1,134)	1:101:A:LEU:C	1:102:A:GLN:N	1:102:A:GLN:CA	1:102:A:GLN:C	17	2.61
(1,53)	1:55:A:MET:C	1:56:A:LYS:N	1:56:A:LYS:CA	1:56:A:LYS:C	1	2.61
(1,61)	1:59:A:GLN:C	1:60:A:MET:N	1:60:A:MET:CA	1:60:A:MET:C	5	2.6
(1,185)	1:151:A:GLU:N	1:151:A:GLU:CA	1:151:A:GLU:C	1:152:A:VAL:N	12	2.59
(1,143)	1:107:A:LYS:N	1:107:A:LYS:CA	1:107:A:LYS:C	1:108:A:TYR:N	8	2.59
(1,61)	1:59:A:GLN:C	1:60:A:MET:N	1:60:A:MET:CA	1:60:A:MET:C	18	2.59
(1,113)	1:90:A:GLN:N	1:90:A:GLN:CA	1:90:A:GLN:C	1:91:A:ALA:N	9	2.58
(1,38)	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	1:44:A:TYR:N	7	2.58
(1,235)	1:177:A:ASP:N	1:177:A:ASP:CA	1:177:A:ASP:C	1:178:A:GLU:N	13	2.57
(1,65)	1:61:A:PHE:C	1:62:A:ALA:N	1:62:A:ALA:CA	1:62:A:ALA:C	15	2.57
(1,61)	1:59:A:GLN:C	1:60:A:MET:N	1:60:A:MET:CA	1:60:A:MET:C	14	2.57
(1,61)	1:59:A:GLN:C	1:60:A:MET:N	1:60:A:MET:CA	1:60:A:MET:C	11	2.53
(1,139)	1:105:A:ASP:N	1:105:A:ASP:CA	1:105:A:ASP:C	1:106:A:GLN:N	17	2.51
(1,53)	1:55:A:MET:C	1:56:A:LYS:N	1:56:A:LYS:CA	1:56:A:LYS:C	15	2.5
(1,226)	1:172:A:ASN:C	1:173:A:THR:N	1:173:A:THR:CA	1:173:A:THR:C	17	2.49
(1,172)	1:137:A:LEU:C	1:138:A:PHE:N	1:138:A:PHE:CA	1:138:A:PHE:C	7	2.49
(1,172)	1:137:A:LEU:C	1:138:A:PHE:N	1:138:A:PHE:CA	1:138:A:PHE:C	9	2.49
(1,134)	1:101:A:LEU:C	1:102:A:GLN:N	1:102:A:GLN:CA	1:102:A:GLN:C	5	2.49
(1,113)	1:90:A:GLN:N	1:90:A:GLN:CA	1:90:A:GLN:C	1:91:A:ALA:N	4	2.47
(1,61)	1:59:A:GLN:C	1:60:A:MET:N	1:60:A:MET:CA	1:60:A:MET:C	6	2.47
(1,113)	1:90:A:GLN:N	1:90:A:GLN:CA	1:90:A:GLN:C	1:91:A:ALA:N	14	2.45
(1,234)	1:176:A:ARG:C	1:177:A:ASP:N	1:177:A:ASP:CA	1:177:A:ASP:C	3	2.41
(1,156)	1:124:A:LYS:C	1:125:A:LEU:N	1:125:A:LEU:CA	1:125:A:LEU:C	6	2.41
(1,139)	1:105:A:ASP:N	1:105:A:ASP:CA	1:105:A:ASP:C	1:106:A:GLN:N	16	2.41
(1,156)	1:124:A:LYS:C	1:125:A:LEU:N	1:125:A:LEU:CA	1:125:A:LEU:C	9	2.39
(1,134)	1:101:A:LEU:C	1:102:A:GLN:N	1:102:A:GLN:CA	1:102:A:GLN:C	8	2.39
(1,172)	1:137:A:LEU:C	1:138:A:PHE:N	1:138:A:PHE:CA	1:138:A:PHE:C	10	2.38
(1,177)	1:140:A:ILE:N	1:140:A:ILE:CA	1:140:A:ILE:C	1:141:A:SER:N	5	2.37
(1,234)	1:176:A:ARG:C	1:177:A:ASP:N	1:177:A:ASP:CA	1:177:A:ASP:C	4	2.36
(1,26)	1:37:A:LYS:N	1:37:A:LYS:CA	1:37:A:LYS:C	1:38:A:VAL:N	14	2.35
(1,156)	1:124:A:LYS:C	1:125:A:LEU:N	1:125:A:LEU:CA	1:125:A:LEU:C	7	2.34
(1,113)	1:90:A:GLN:N	1:90:A:GLN:CA	1:90:A:GLN:C	1:91:A:ALA:N	15	2.34
(1,113)	1:90:A:GLN:N	1:90:A:GLN:CA	1:90:A:GLN:C	1:91:A:ALA:N	8	2.32
(1,172)	1:137:A:LEU:C	1:138:A:PHE:N	1:138:A:PHE:CA	1:138:A:PHE:C	16	2.31
(1,234)	1:176:A:ARG:C	1:177:A:ASP:N	1:177:A:ASP:CA	1:177:A:ASP:C	7	2.28
(1,234)	1:176:A:ARG:C	1:177:A:ASP:N	1:177:A:ASP:CA	1:177:A:ASP:C	17	2.28
(1,186)	1:151:A:GLU:C	1:152:A:VAL:N	1:152:A:VAL:CA	1:152:A:VAL:C	3	2.28
(1,172)	1:137:A:LEU:C	1:138:A:PHE:N	1:138:A:PHE:CA	1:138:A:PHE:C	8	2.28
(1,177)	1:140:A:ILE:N	1:140:A:ILE:CA	1:140:A:ILE:C	1:141:A:SER:N	2	2.27
(1,139)	1:105:A:ASP:N	1:105:A:ASP:CA	1:105:A:ASP:C	1:106:A:GLN:N	4	2.27
(1,65)	1:61:A:PHE:C	1:62:A:ALA:N	1:62:A:ALA:CA	1:62:A:ALA:C	1	2.24
(1,187)	1:152:A:VAL:N	1:152:A:VAL:CA	1:152:A:VAL:C	1:153:A:HIS:N	14	2.23
(1,143)	1:107:A:LYS:N	1:107:A:LYS:CA	1:107:A:LYS:C	1:108:A:TYR:N	18	2.22

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,134)	1:101:A:LEU:C	1:102:A:GLN:N	1:102:A:GLN:CA	1:102:A:GLN:C	14	2.22
(1,61)	1:59:A:GLN:C	1:60:A:MET:N	1:60:A:MET:CA	1:60:A:MET:C	15	2.22
(1,4)	1:9:A:GLU:N	1:9:A:GLU:CA	1:9:A:GLU:C	1:10:A:GLN:N	20	2.22
(1,61)	1:59:A:GLN:C	1:60:A:MET:N	1:60:A:MET:CA	1:60:A:MET:C	2	2.21
(1,26)	1:37:A:LYS:N	1:37:A:LYS:CA	1:37:A:LYS:C	1:38:A:VAL:N	10	2.21
(1,139)	1:105:A:ASP:N	1:105:A:ASP:CA	1:105:A:ASP:C	1:106:A:GLN:N	10	2.2
(1,155)	1:121:A:SER:N	1:121:A:SER:CA	1:121:A:SER:C	1:122:A:LEU:N	4	2.19
(1,61)	1:59:A:GLN:C	1:60:A:MET:N	1:60:A:MET:CA	1:60:A:MET:C	1	2.19
(1,235)	1:177:A:ASP:N	1:177:A:ASP:CA	1:177:A:ASP:C	1:178:A:GLU:N	4	2.18
(1,143)	1:107:A:LYS:N	1:107:A:LYS:CA	1:107:A:LYS:C	1:108:A:TYR:N	14	2.18
(1,61)	1:59:A:GLN:C	1:60:A:MET:N	1:60:A:MET:CA	1:60:A:MET:C	13	2.18
(1,53)	1:55:A:MET:C	1:56:A:LYS:N	1:56:A:LYS:CA	1:56:A:LYS:C	9	2.18
(1,143)	1:107:A:LYS:N	1:107:A:LYS:CA	1:107:A:LYS:C	1:108:A:TYR:N	5	2.16
(1,177)	1:140:A:ILE:N	1:140:A:ILE:CA	1:140:A:ILE:C	1:141:A:SER:N	7	2.15
(1,121)	1:94:A:LEU:N	1:94:A:LEU:CA	1:94:A:LEU:C	1:95:A:THR:N	11	2.15
(1,172)	1:137:A:LEU:C	1:138:A:PHE:N	1:138:A:PHE:CA	1:138:A:PHE:C	17	2.14
(1,156)	1:124:A:LYS:C	1:125:A:LEU:N	1:125:A:LEU:CA	1:125:A:LEU:C	18	2.13
(1,134)	1:101:A:LEU:C	1:102:A:GLN:N	1:102:A:GLN:CA	1:102:A:GLN:C	10	2.11
(1,156)	1:124:A:LYS:C	1:125:A:LEU:N	1:125:A:LEU:CA	1:125:A:LEU:C	20	2.1
(1,134)	1:101:A:LEU:C	1:102:A:GLN:N	1:102:A:GLN:CA	1:102:A:GLN:C	19	2.1
(1,147)	1:114:A:ASP:N	1:114:A:ASP:CA	1:114:A:ASP:C	1:115:A:GLN:N	19	2.07
(1,134)	1:101:A:LEU:C	1:102:A:GLN:N	1:102:A:GLN:CA	1:102:A:GLN:C	4	2.07
(1,187)	1:152:A:VAL:N	1:152:A:VAL:CA	1:152:A:VAL:C	1:153:A:HIS:N	16	2.06
(1,186)	1:151:A:GLU:C	1:152:A:VAL:N	1:152:A:VAL:CA	1:152:A:VAL:C	11	2.06
(1,48)	1:49:A:SER:N	1:49:A:SER:CA	1:49:A:SER:C	1:50:A:LYS:N	4	2.06
(1,172)	1:137:A:LEU:C	1:138:A:PHE:N	1:138:A:PHE:CA	1:138:A:PHE:C	18	2.05
(1,84)	1:72:A:VAL:N	1:72:A:VAL:CA	1:72:A:VAL:C	1:73:A:ARG:N	18	2.05
(1,54)	1:56:A:LYS:N	1:56:A:LYS:CA	1:56:A:LYS:C	1:57:A:SER:N	17	2.05
(1,186)	1:151:A:GLU:C	1:152:A:VAL:N	1:152:A:VAL:CA	1:152:A:VAL:C	14	2.04
(1,113)	1:90:A:GLN:N	1:90:A:GLN:CA	1:90:A:GLN:C	1:91:A:ALA:N	12	2.04
(1,61)	1:59:A:GLN:C	1:60:A:MET:N	1:60:A:MET:CA	1:60:A:MET:C	7	2.04
(1,172)	1:137:A:LEU:C	1:138:A:PHE:N	1:138:A:PHE:CA	1:138:A:PHE:C	14	2.0
(1,156)	1:124:A:LYS:C	1:125:A:LEU:N	1:125:A:LEU:CA	1:125:A:LEU:C	8	1.99
(1,234)	1:176:A:ARG:C	1:177:A:ASP:N	1:177:A:ASP:CA	1:177:A:ASP:C	16	1.98
(1,177)	1:140:A:ILE:N	1:140:A:ILE:CA	1:140:A:ILE:C	1:141:A:SER:N	13	1.98
(1,172)	1:137:A:LEU:C	1:138:A:PHE:N	1:138:A:PHE:CA	1:138:A:PHE:C	1	1.98
(1,61)	1:59:A:GLN:C	1:60:A:MET:N	1:60:A:MET:CA	1:60:A:MET:C	16	1.98
(1,152)	1:119:A:VAL:C	1:120:A:ILE:N	1:120:A:ILE:CA	1:120:A:ILE:C	12	1.97
(1,26)	1:37:A:LYS:N	1:37:A:LYS:CA	1:37:A:LYS:C	1:38:A:VAL:N	3	1.97
(1,61)	1:59:A:GLN:C	1:60:A:MET:N	1:60:A:MET:CA	1:60:A:MET:C	17	1.95
(1,177)	1:140:A:ILE:N	1:140:A:ILE:CA	1:140:A:ILE:C	1:141:A:SER:N	20	1.94
(1,172)	1:137:A:LEU:C	1:138:A:PHE:N	1:138:A:PHE:CA	1:138:A:PHE:C	3	1.94
(1,186)	1:151:A:GLU:C	1:152:A:VAL:N	1:152:A:VAL:CA	1:152:A:VAL:C	6	1.93
(1,177)	1:140:A:ILE:N	1:140:A:ILE:CA	1:140:A:ILE:C	1:141:A:SER:N	3	1.93
(1,177)	1:140:A:ILE:N	1:140:A:ILE:CA	1:140:A:ILE:C	1:141:A:SER:N	14	1.92
(1,134)	1:101:A:LEU:C	1:102:A:GLN:N	1:102:A:GLN:CA	1:102:A:GLN:C	15	1.91
(1,226)	1:172:A:ASN:C	1:173:A:THR:N	1:173:A:THR:CA	1:173:A:THR:C	14	1.89
(1,186)	1:151:A:GLU:C	1:152:A:VAL:N	1:152:A:VAL:CA	1:152:A:VAL:C	19	1.89
(1,61)	1:59:A:GLN:C	1:60:A:MET:N	1:60:A:MET:CA	1:60:A:MET:C	20	1.89
(1,234)	1:176:A:ARG:C	1:177:A:ASP:N	1:177:A:ASP:CA	1:177:A:ASP:C	14	1.87
(1,155)	1:121:A:SER:N	1:121:A:SER:CA	1:121:A:SER:C	1:122:A:LEU:N	8	1.87

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,172)	1:137:A:LEU:C	1:138:A:PHE:N	1:138:A:PHE:CA	1:138:A:PHE:C	12	1.86
(1,134)	1:101:A:LEU:C	1:102:A:GLN:N	1:102:A:GLN:CA	1:102:A:GLN:C	2	1.86
(1,226)	1:172:A:ASN:C	1:173:A:THR:N	1:173:A:THR:CA	1:173:A:THR:C	3	1.85
(1,143)	1:107:A:LYS:N	1:107:A:LYS:CA	1:107:A:LYS:C	1:108:A:TYR:N	6	1.85
(1,155)	1:121:A:SER:N	1:121:A:SER:CA	1:121:A:SER:C	1:122:A:LEU:N	18	1.84
(1,177)	1:140:A:ILE:N	1:140:A:ILE:CA	1:140:A:ILE:C	1:141:A:SER:N	11	1.83
(1,121)	1:94:A:LEU:N	1:94:A:LEU:CA	1:94:A:LEU:C	1:95:A:THR:N	14	1.83
(1,152)	1:119:A:VAL:C	1:120:A:ILE:N	1:120:A:ILE:CA	1:120:A:ILE:C	19	1.82
(1,177)	1:140:A:ILE:N	1:140:A:ILE:CA	1:140:A:ILE:C	1:141:A:SER:N	17	1.78
(1,172)	1:137:A:LEU:C	1:138:A:PHE:N	1:138:A:PHE:CA	1:138:A:PHE:C	4	1.78
(1,113)	1:90:A:GLN:N	1:90:A:GLN:CA	1:90:A:GLN:C	1:91:A:ALA:N	16	1.78
(1,177)	1:140:A:ILE:N	1:140:A:ILE:CA	1:140:A:ILE:C	1:141:A:SER:N	4	1.77
(1,113)	1:90:A:GLN:N	1:90:A:GLN:CA	1:90:A:GLN:C	1:91:A:ALA:N	17	1.77
(1,143)	1:107:A:LYS:N	1:107:A:LYS:CA	1:107:A:LYS:C	1:108:A:TYR:N	20	1.76
(1,110)	1:88:A:GLU:C	1:89:A:VAL:N	1:89:A:VAL:CA	1:89:A:VAL:C	20	1.74
(1,234)	1:176:A:ARG:C	1:177:A:ASP:N	1:177:A:ASP:CA	1:177:A:ASP:C	10	1.73
(1,143)	1:107:A:LYS:N	1:107:A:LYS:CA	1:107:A:LYS:C	1:108:A:TYR:N	4	1.73
(1,152)	1:119:A:VAL:C	1:120:A:ILE:N	1:120:A:ILE:CA	1:120:A:ILE:C	13	1.72
(1,147)	1:114:A:ASP:N	1:114:A:ASP:CA	1:114:A:ASP:C	1:115:A:GLN:N	3	1.72
(1,4)	1:9:A:GLU:N	1:9:A:GLU:CA	1:9:A:GLU:C	1:10:A:GLN:N	1	1.72
(1,143)	1:107:A:LYS:N	1:107:A:LYS:CA	1:107:A:LYS:C	1:108:A:TYR:N	13	1.71
(1,10)	1:29:A:SER:N	1:29:A:SER:CA	1:29:A:SER:C	1:30:A:LYS:N	10	1.71
(1,235)	1:177:A:ASP:N	1:177:A:ASP:CA	1:177:A:ASP:C	1:178:A:GLU:N	3	1.7
(1,134)	1:101:A:LEU:C	1:102:A:GLN:N	1:102:A:GLN:CA	1:102:A:GLN:C	12	1.7
(1,134)	1:101:A:LEU:C	1:102:A:GLN:N	1:102:A:GLN:CA	1:102:A:GLN:C	16	1.7
(1,186)	1:151:A:GLU:C	1:152:A:VAL:N	1:152:A:VAL:CA	1:152:A:VAL:C	12	1.69
(1,4)	1:9:A:GLU:N	1:9:A:GLU:CA	1:9:A:GLU:C	1:10:A:GLN:N	16	1.69
(1,134)	1:101:A:LEU:C	1:102:A:GLN:N	1:102:A:GLN:CA	1:102:A:GLN:C	20	1.68
(1,84)	1:72:A:VAL:N	1:72:A:VAL:CA	1:72:A:VAL:C	1:73:A:ARG:N	17	1.68
(1,61)	1:59:A:GLN:C	1:60:A:MET:N	1:60:A:MET:CA	1:60:A:MET:C	12	1.68
(1,92)	1:79:A:LEU:C	1:80:A:LYS:N	1:80:A:LYS:CA	1:80:A:LYS:C	16	1.67
(1,61)	1:59:A:GLN:C	1:60:A:MET:N	1:60:A:MET:CA	1:60:A:MET:C	19	1.67
(1,226)	1:172:A:ASN:C	1:173:A:THR:N	1:173:A:THR:CA	1:173:A:THR:C	13	1.66
(1,177)	1:140:A:ILE:N	1:140:A:ILE:CA	1:140:A:ILE:C	1:141:A:SER:N	18	1.65
(1,143)	1:107:A:LYS:N	1:107:A:LYS:CA	1:107:A:LYS:C	1:108:A:TYR:N	2	1.65
(1,226)	1:172:A:ASN:C	1:173:A:THR:N	1:173:A:THR:CA	1:173:A:THR:C	19	1.64
(1,187)	1:152:A:VAL:N	1:152:A:VAL:CA	1:152:A:VAL:C	1:153:A:HIS:N	5	1.64
(1,177)	1:140:A:ILE:N	1:140:A:ILE:CA	1:140:A:ILE:C	1:141:A:SER:N	9	1.64
(1,156)	1:124:A:LYS:C	1:125:A:LEU:N	1:125:A:LEU:CA	1:125:A:LEU:C	1	1.64
(1,226)	1:172:A:ASN:C	1:173:A:THR:N	1:173:A:THR:CA	1:173:A:THR:C	9	1.63
(1,177)	1:140:A:ILE:N	1:140:A:ILE:CA	1:140:A:ILE:C	1:141:A:SER:N	15	1.62
(1,172)	1:137:A:LEU:C	1:138:A:PHE:N	1:138:A:PHE:CA	1:138:A:PHE:C	2	1.62
(1,152)	1:119:A:VAL:C	1:120:A:ILE:N	1:120:A:ILE:CA	1:120:A:ILE:C	2	1.62
(1,139)	1:105:A:ASP:N	1:105:A:ASP:CA	1:105:A:ASP:C	1:106:A:GLN:N	9	1.62
(1,156)	1:124:A:LYS:C	1:125:A:LEU:N	1:125:A:LEU:CA	1:125:A:LEU:C	2	1.61
(1,63)	1:60:A:MET:C	1:61:A:PHE:N	1:61:A:PHE:CA	1:61:A:PHE:C	20	1.61
(1,226)	1:172:A:ASN:C	1:173:A:THR:N	1:173:A:THR:CA	1:173:A:THR:C	20	1.6
(1,187)	1:152:A:VAL:N	1:152:A:VAL:CA	1:152:A:VAL:C	1:153:A:HIS:N	18	1.6
(1,172)	1:137:A:LEU:C	1:138:A:PHE:N	1:138:A:PHE:CA	1:138:A:PHE:C	6	1.59
(1,139)	1:105:A:ASP:N	1:105:A:ASP:CA	1:105:A:ASP:C	1:106:A:GLN:N	18	1.59
(1,53)	1:55:A:MET:C	1:56:A:LYS:N	1:56:A:LYS:CA	1:56:A:LYS:C	13	1.59

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,53)	1:55:A:MET:C	1:56:A:LYS:N	1:56:A:LYS:CA	1:56:A:LYS:C	20	1.59
(1,235)	1:177:A:ASP:N	1:177:A:ASP:CA	1:177:A:ASP:C	1:178:A:GLU:N	17	1.58
(1,155)	1:121:A:SER:N	1:121:A:SER:CA	1:121:A:SER:C	1:122:A:LEU:N	9	1.58
(1,53)	1:55:A:MET:C	1:56:A:LYS:N	1:56:A:LYS:CA	1:56:A:LYS:C	8	1.58
(1,10)	1:29:A:SER:N	1:29:A:SER:CA	1:29:A:SER:C	1:30:A:LYS:N	2	1.58
(1,152)	1:119:A:VAL:C	1:120:A:ILE:N	1:120:A:ILE:CA	1:120:A:ILE:C	10	1.56
(1,234)	1:176:A:ARG:C	1:177:A:ASP:N	1:177:A:ASP:CA	1:177:A:ASP:C	20	1.55
(1,152)	1:119:A:VAL:C	1:120:A:ILE:N	1:120:A:ILE:CA	1:120:A:ILE:C	6	1.55
(1,143)	1:107:A:LYS:N	1:107:A:LYS:CA	1:107:A:LYS:C	1:108:A:TYR:N	3	1.55
(1,186)	1:151:A:GLU:C	1:152:A:VAL:N	1:152:A:VAL:CA	1:152:A:VAL:C	15	1.53
(1,53)	1:55:A:MET:C	1:56:A:LYS:N	1:56:A:LYS:CA	1:56:A:LYS:C	18	1.53
(1,10)	1:29:A:SER:N	1:29:A:SER:CA	1:29:A:SER:C	1:30:A:LYS:N	16	1.53
(1,8)	1:22:A:ASP:N	1:22:A:ASP:CA	1:22:A:ASP:C	1:23:A:VAL:N	15	1.52
(1,123)	1:95:A:THR:N	1:95:A:THR:CA	1:95:A:THR:C	1:96:A:ASP:N	3	1.51
(1,147)	1:114:A:ASP:N	1:114:A:ASP:CA	1:114:A:ASP:C	1:115:A:GLN:N	6	1.5
(1,147)	1:114:A:ASP:N	1:114:A:ASP:CA	1:114:A:ASP:C	1:115:A:GLN:N	5	1.49
(1,38)	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	1:44:A:TYR:N	19	1.49
(1,186)	1:151:A:GLU:C	1:152:A:VAL:N	1:152:A:VAL:CA	1:152:A:VAL:C	9	1.48
(1,186)	1:151:A:GLU:C	1:152:A:VAL:N	1:152:A:VAL:CA	1:152:A:VAL:C	16	1.48
(1,109)	1:88:A:GLU:N	1:88:A:GLU:CA	1:88:A:GLU:C	1:89:A:VAL:N	4	1.48
(1,172)	1:137:A:LEU:C	1:138:A:PHE:N	1:138:A:PHE:CA	1:138:A:PHE:C	15	1.47
(1,143)	1:107:A:LYS:N	1:107:A:LYS:CA	1:107:A:LYS:C	1:108:A:TYR:N	17	1.47
(1,113)	1:90:A:GLN:N	1:90:A:GLN:CA	1:90:A:GLN:C	1:91:A:ALA:N	11	1.47
(1,121)	1:94:A:LEU:N	1:94:A:LEU:CA	1:94:A:LEU:C	1:95:A:THR:N	18	1.46
(1,121)	1:94:A:LEU:N	1:94:A:LEU:CA	1:94:A:LEU:C	1:95:A:THR:N	3	1.45
(1,123)	1:95:A:THR:N	1:95:A:THR:CA	1:95:A:THR:C	1:96:A:ASP:N	9	1.44
(1,123)	1:95:A:THR:N	1:95:A:THR:CA	1:95:A:THR:C	1:96:A:ASP:N	14	1.44
(1,76)	1:67:A:LYS:N	1:67:A:LYS:CA	1:67:A:LYS:C	1:68:A:ARG:N	3	1.44
(1,226)	1:172:A:ASN:C	1:173:A:THR:N	1:173:A:THR:CA	1:173:A:THR:C	16	1.43
(1,152)	1:119:A:VAL:C	1:120:A:ILE:N	1:120:A:ILE:CA	1:120:A:ILE:C	7	1.43
(1,123)	1:95:A:THR:N	1:95:A:THR:CA	1:95:A:THR:C	1:96:A:ASP:N	10	1.43
(1,177)	1:140:A:ILE:N	1:140:A:ILE:CA	1:140:A:ILE:C	1:141:A:SER:N	6	1.42
(1,134)	1:101:A:LEU:C	1:102:A:GLN:N	1:102:A:GLN:CA	1:102:A:GLN:C	11	1.42
(1,27)	1:37:A:LYS:C	1:38:A:VAL:N	1:38:A:VAL:CA	1:38:A:VAL:C	12	1.42
(1,63)	1:60:A:MET:C	1:61:A:PHE:N	1:61:A:PHE:CA	1:61:A:PHE:C	12	1.41
(1,109)	1:88:A:GLU:N	1:88:A:GLU:CA	1:88:A:GLU:C	1:89:A:VAL:N	7	1.4
(1,53)	1:55:A:MET:C	1:56:A:LYS:N	1:56:A:LYS:CA	1:56:A:LYS:C	11	1.39
(1,143)	1:107:A:LYS:N	1:107:A:LYS:CA	1:107:A:LYS:C	1:108:A:TYR:N	12	1.38
(1,109)	1:88:A:GLU:N	1:88:A:GLU:CA	1:88:A:GLU:C	1:89:A:VAL:N	20	1.38
(1,63)	1:60:A:MET:C	1:61:A:PHE:N	1:61:A:PHE:CA	1:61:A:PHE:C	5	1.38
(1,187)	1:152:A:VAL:N	1:152:A:VAL:CA	1:152:A:VAL:C	1:153:A:HIS:N	3	1.37
(1,1)	1:6:A:ASN:C	1:7:A:GLU:N	1:7:A:GLU:CA	1:7:A:GLU:C	6	1.37
(1,187)	1:152:A:VAL:N	1:152:A:VAL:CA	1:152:A:VAL:C	1:153:A:HIS:N	15	1.36
(1,152)	1:119:A:VAL:C	1:120:A:ILE:N	1:120:A:ILE:CA	1:120:A:ILE:C	9	1.36
(1,134)	1:101:A:LEU:C	1:102:A:GLN:N	1:102:A:GLN:CA	1:102:A:GLN:C	13	1.36
(1,60)	1:59:A:GLN:N	1:59:A:GLN:CA	1:59:A:GLN:C	1:60:A:MET:N	16	1.33
(1,186)	1:151:A:GLU:C	1:152:A:VAL:N	1:152:A:VAL:CA	1:152:A:VAL:C	1	1.32
(1,183)	1:150:A:VAL:N	1:150:A:VAL:CA	1:150:A:VAL:C	1:151:A:GLU:N	2	1.32
(1,143)	1:107:A:LYS:N	1:107:A:LYS:CA	1:107:A:LYS:C	1:108:A:TYR:N	1	1.32
(1,84)	1:72:A:VAL:N	1:72:A:VAL:CA	1:72:A:VAL:C	1:73:A:ARG:N	2	1.32
(1,10)	1:29:A:SER:N	1:29:A:SER:CA	1:29:A:SER:C	1:30:A:LYS:N	3	1.32

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,121)	1:94:A:LEU:N	1:94:A:LEU:CA	1:94:A:LEU:C	1:95:A:THR:N	8	1.31
(1,109)	1:88:A:GLU:N	1:88:A:GLU:CA	1:88:A:GLU:C	1:89:A:VAL:N	13	1.31
(1,143)	1:107:A:LYS:N	1:107:A:LYS:CA	1:107:A:LYS:C	1:108:A:TYR:N	10	1.29
(1,92)	1:79:A:LEU:C	1:80:A:LYS:N	1:80:A:LYS:CA	1:80:A:LYS:C	4	1.29
(1,226)	1:172:A:ASN:C	1:173:A:THR:N	1:173:A:THR:CA	1:173:A:THR:C	15	1.28
(1,175)	1:139:A:LEU:N	1:139:A:LEU:CA	1:139:A:LEU:C	1:140:A:ILE:N	15	1.28
(1,156)	1:124:A:LYS:C	1:125:A:LEU:N	1:125:A:LEU:CA	1:125:A:LEU:C	4	1.28
(1,235)	1:177:A:ASP:N	1:177:A:ASP:CA	1:177:A:ASP:C	1:178:A:GLU:N	6	1.27
(1,152)	1:119:A:VAL:C	1:120:A:ILE:N	1:120:A:ILE:CA	1:120:A:ILE:C	11	1.27
(1,84)	1:72:A:VAL:N	1:72:A:VAL:CA	1:72:A:VAL:C	1:73:A:ARG:N	15	1.26
(1,187)	1:152:A:VAL:N	1:152:A:VAL:CA	1:152:A:VAL:C	1:153:A:HIS:N	20	1.25
(1,109)	1:88:A:GLU:N	1:88:A:GLU:CA	1:88:A:GLU:C	1:89:A:VAL:N	19	1.25
(1,139)	1:105:A:ASP:N	1:105:A:ASP:CA	1:105:A:ASP:C	1:106:A:GLN:N	3	1.23
(1,109)	1:88:A:GLU:N	1:88:A:GLU:CA	1:88:A:GLU:C	1:89:A:VAL:N	8	1.23
(1,143)	1:107:A:LYS:N	1:107:A:LYS:CA	1:107:A:LYS:C	1:108:A:TYR:N	11	1.21
(1,134)	1:101:A:LEU:C	1:102:A:GLN:N	1:102:A:GLN:CA	1:102:A:GLN:C	18	1.21
(1,234)	1:176:A:ARG:C	1:177:A:ASP:N	1:177:A:ASP:CA	1:177:A:ASP:C	13	1.2
(1,234)	1:176:A:ARG:C	1:177:A:ASP:N	1:177:A:ASP:CA	1:177:A:ASP:C	19	1.2
(1,226)	1:172:A:ASN:C	1:173:A:THR:N	1:173:A:THR:CA	1:173:A:THR:C	8	1.2
(1,186)	1:151:A:GLU:C	1:152:A:VAL:N	1:152:A:VAL:CA	1:152:A:VAL:C	4	1.2
(1,92)	1:79:A:LEU:C	1:80:A:LYS:N	1:80:A:LYS:CA	1:80:A:LYS:C	17	1.2
(1,48)	1:49:A:SER:N	1:49:A:SER:CA	1:49:A:SER:C	1:50:A:LYS:N	2	1.2
(1,26)	1:37:A:LYS:N	1:37:A:LYS:CA	1:37:A:LYS:C	1:38:A:VAL:N	17	1.2
(1,189)	1:153:A:HIS:N	1:153:A:HIS:CA	1:153:A:HIS:C	1:154:A:ALA:N	13	1.19
(1,185)	1:151:A:GLU:N	1:151:A:GLU:CA	1:151:A:GLU:C	1:152:A:VAL:N	20	1.19
(1,139)	1:105:A:ASP:N	1:105:A:ASP:CA	1:105:A:ASP:C	1:106:A:GLN:N	11	1.19
(1,218)	1:168:A:GLN:C	1:169:A:ASP:N	1:169:A:ASP:CA	1:169:A:ASP:C	3	1.17
(1,61)	1:59:A:GLN:C	1:60:A:MET:N	1:60:A:MET:CA	1:60:A:MET:C	10	1.17
(1,92)	1:79:A:LEU:C	1:80:A:LYS:N	1:80:A:LYS:CA	1:80:A:LYS:C	10	1.16
(1,84)	1:72:A:VAL:N	1:72:A:VAL:CA	1:72:A:VAL:C	1:73:A:ARG:N	6	1.15
(1,63)	1:60:A:MET:C	1:61:A:PHE:N	1:61:A:PHE:CA	1:61:A:PHE:C	4	1.15
(1,92)	1:79:A:LEU:C	1:80:A:LYS:N	1:80:A:LYS:CA	1:80:A:LYS:C	1	1.14
(1,84)	1:72:A:VAL:N	1:72:A:VAL:CA	1:72:A:VAL:C	1:73:A:ARG:N	19	1.14
(1,143)	1:107:A:LYS:N	1:107:A:LYS:CA	1:107:A:LYS:C	1:108:A:TYR:N	15	1.13
(1,121)	1:94:A:LEU:N	1:94:A:LEU:CA	1:94:A:LEU:C	1:95:A:THR:N	10	1.13
(1,134)	1:101:A:LEU:C	1:102:A:GLN:N	1:102:A:GLN:CA	1:102:A:GLN:C	1	1.12
(1,123)	1:95:A:THR:N	1:95:A:THR:CA	1:95:A:THR:C	1:96:A:ASP:N	11	1.12
(1,63)	1:60:A:MET:C	1:61:A:PHE:N	1:61:A:PHE:CA	1:61:A:PHE:C	19	1.1
(1,4)	1:9:A:GLU:N	1:9:A:GLU:CA	1:9:A:GLU:C	1:10:A:GLN:N	13	1.1
(1,63)	1:60:A:MET:C	1:61:A:PHE:N	1:61:A:PHE:CA	1:61:A:PHE:C	3	1.09
(1,65)	1:61:A:PHE:C	1:62:A:ALA:N	1:62:A:ALA:CA	1:62:A:ALA:C	10	1.08
(1,53)	1:55:A:MET:C	1:56:A:LYS:N	1:56:A:LYS:CA	1:56:A:LYS:C	5	1.08
(1,92)	1:79:A:LEU:C	1:80:A:LYS:N	1:80:A:LYS:CA	1:80:A:LYS:C	6	1.07
(1,186)	1:151:A:GLU:C	1:152:A:VAL:N	1:152:A:VAL:CA	1:152:A:VAL:C	13	1.06
(1,185)	1:151:A:GLU:N	1:151:A:GLU:CA	1:151:A:GLU:C	1:152:A:VAL:N	13	1.06
(1,177)	1:140:A:ILE:N	1:140:A:ILE:CA	1:140:A:ILE:C	1:141:A:SER:N	8	1.06
(1,155)	1:121:A:SER:N	1:121:A:SER:CA	1:121:A:SER:C	1:122:A:LEU:N	3	1.06
(1,113)	1:90:A:GLN:N	1:90:A:GLN:CA	1:90:A:GLN:C	1:91:A:ALA:N	7	1.06
(1,84)	1:72:A:VAL:N	1:72:A:VAL:CA	1:72:A:VAL:C	1:73:A:ARG:N	8	1.06
(1,53)	1:55:A:MET:C	1:56:A:LYS:N	1:56:A:LYS:CA	1:56:A:LYS:C	2	1.06
(1,152)	1:119:A:VAL:C	1:120:A:ILE:N	1:120:A:ILE:CA	1:120:A:ILE:C	3	1.04

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,109)	1:88:A:GLU:N	1:88:A:GLU:CA	1:88:A:GLU:C	1:89:A:VAL:N	6	1.04
(1,109)	1:88:A:GLU:N	1:88:A:GLU:CA	1:88:A:GLU:C	1:89:A:VAL:N	15	1.04
(1,84)	1:72:A:VAL:N	1:72:A:VAL:CA	1:72:A:VAL:C	1:73:A:ARG:N	5	1.04
(1,65)	1:61:A:PHE:C	1:62:A:ALA:N	1:62:A:ALA:CA	1:62:A:ALA:C	19	1.04
(1,152)	1:119:A:VAL:C	1:120:A:ILE:N	1:120:A:ILE:CA	1:120:A:ILE:C	14	1.03
(1,134)	1:101:A:LEU:C	1:102:A:GLN:N	1:102:A:GLN:CA	1:102:A:GLN:C	6	1.03
(1,4)	1:9:A:GLU:N	1:9:A:GLU:CA	1:9:A:GLU:C	1:10:A:GLN:N	9	1.02
(1,234)	1:176:A:ARG:C	1:177:A:ASP:N	1:177:A:ASP:CA	1:177:A:ASP:C	6	1.01
(1,63)	1:60:A:MET:C	1:61:A:PHE:N	1:61:A:PHE:CA	1:61:A:PHE:C	13	1.01
(1,60)	1:59:A:GLN:N	1:59:A:GLN:CA	1:59:A:GLN:C	1:60:A:MET:N	1	1.01
(1,226)	1:172:A:ASN:C	1:173:A:THR:N	1:173:A:THR:CA	1:173:A:THR:C	4	1.0
(1,152)	1:119:A:VAL:C	1:120:A:ILE:N	1:120:A:ILE:CA	1:120:A:ILE:C	17	1.0
(1,151)	1:119:A:VAL:N	1:119:A:VAL:CA	1:119:A:VAL:C	1:120:A:ILE:N	4	1.0