Full wwPDB NMR Structure Validation Report (i)

Jun 5, 2023 – 10:35 PM EDT

PDB ID	:	2M2F
BMRB ID	:	18912
Title	:	The membran-proximal domain of ADAM17
Authors	:	Duesterhoeft, S.; Jung, S.; Hung, C.; Tholey, A.; Soennichsen, F.D.; Groetzinger, J.; Lorenzen, I.
Deposited on	:	2012-12-20

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 (i) 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 (1)) were used in the production of this report:

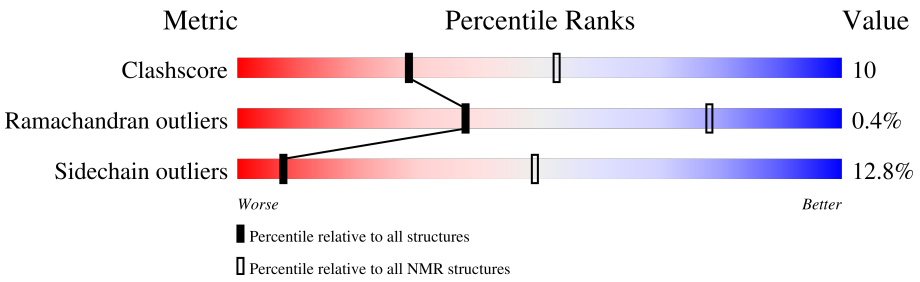
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
wwPDB-RCI	:	v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV	:	Wang et al. (2010)
wwPDB-ShiftChecker	:	v1.2
BMRB Restraints Analysis	:	v1.2
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.33

1 Overall quality at a glance (i)

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

The overall completeness of chemical shifts assignment is 52%.

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	158937	12864
Ramachandran outliers	154571	11451
Sidechain outliers	154315	11428

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

Mol	Chain	Length	Quality of chain
1	A	88	53% 15% •• 30%

2 Ensemble composition and analysis (i)

This entry contains 20 models. Model 11 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:2-A:62 (61)	1.01	11

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 4 clusters and 3 single-model clusters were found.

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

3 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 927 atoms, of which 447 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Disintegrin and metalloproteinase domain-containing protein 17.

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	A	62	927	287	447	86	96	11	0

There are 26 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-25	MET	-	expression tag	UNP P78536
A	-24	GLY	-	expression tag	UNP P78536
A	-23	SER	-	expression tag	UNP P78536
A	-22	SER	-	expression tag	UNP P78536
A	-21	HIS	-	expression tag	UNP P78536
A	-20	HIS	-	expression tag	UNP P78536
A	-19	HIS	-	expression tag	UNP P78536
A	-18	HIS	-	expression tag	UNP P78536
A	-17	HIS	-	expression tag	UNP P78536
A	-16	HIS	-	expression tag	UNP P78536
A	-15	SER	-	expression tag	UNP P78536
A	-14	SER	-	expression tag	UNP P78536
A	-13	GLY	-	expression tag	UNP P78536
A	-12	LEU	-	expression tag	UNP P78536
A	-11	VAL	-	expression tag	UNP P78536
A	-10	PRO	-	expression tag	UNP P78536
A	-9	ARG	-	expression tag	UNP P78536
A	-8	GLY	-	expression tag	UNP P78536
A	-7	SER	-	expression tag	UNP P78536
A	-6	HIS	-	expression tag	UNP P78536
A	-5	MET	-	expression tag	UNP P78536
A	-4	ASP	-	expression tag	UNP P78536
A	-3	ASP	-	expression tag	UNP P78536
A	-2	ASP	-	expression tag	UNP P78536
A	-1	ASP	-	expression tag	UNP P78536
A	0	LYS	-	expression tag	UNP P78536

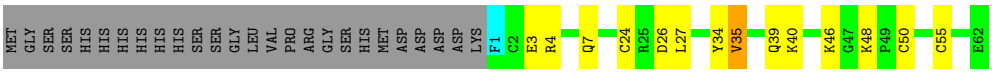
4 Residue-property plots (i)

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: Disintegrin and metalloproteinase domain-containing protein 17

Chain A:



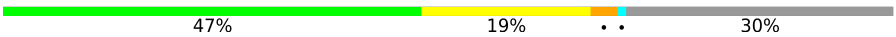
4.2 Scores per residue for each member of the ensemble

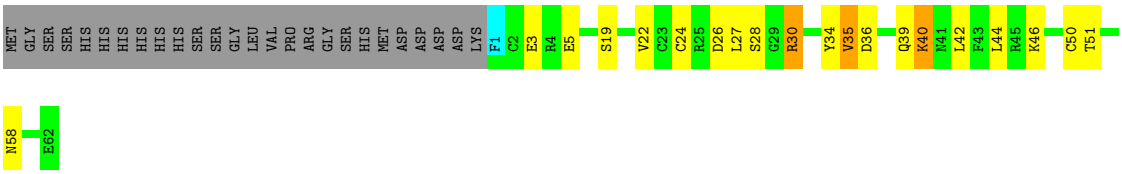
Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

• Molecule 1: Disintegrin and metalloproteinase domain-containing protein 17

Chain A:

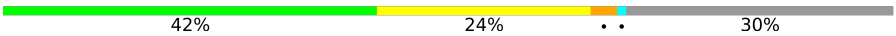




4.2.2 Score per residue for model 2

• Molecule 1: Disintegrin and metalloproteinase domain-containing protein 17

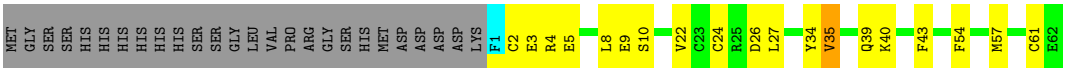
Chain A:



4.2.3 Score per residue for model 3

• Molecule 1: Disintegrin and metalloproteinase domain-containing protein 17

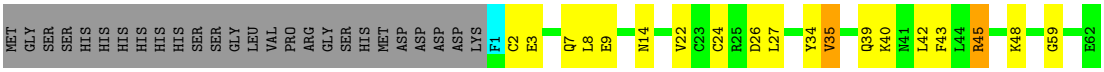
Chain A:



4.2.4 Score per residue for model 4

• Molecule 1: Disintegrin and metalloproteinase domain-containing protein 17

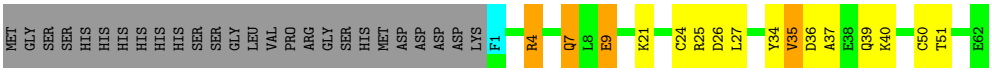
Chain A:



4.2.5 Score per residue for model 5

• Molecule 1: Disintegrin and metalloproteinase domain-containing protein 17

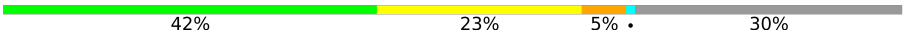
Chain A:

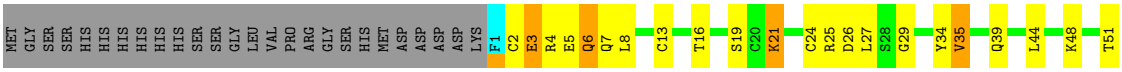


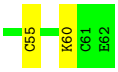
4.2.6 Score per residue for model 6

• Molecule 1: Disintegrin and metalloproteinase domain-containing protein 17

Chain A:







4.2.7 Score per residue for model 7

• Molecule 1: Disintegrin and metalloproteinase domain-containing protein 17

Chain A: 41% 26% • • 30%

MET GLY SER SER HIS HIS HIS HIS HIS HIS SER SER GLY LEU VAL PRO ARG GLY SER HIS MET ASP ASP ASP ASP LYS F1 C2 E3 R4 E5 Q6 Q7 L8 S19 C24 R25 D26 R30 C31 V32 P33 Y34 V35 D36 A37 E38 Q39 K40 K46 C50 T51 V52 C55

D56 K60 C61 E62

4.2.8 Score per residue for model 8

• Molecule 1: Disintegrin and metalloproteinase domain-containing protein 17

Chain A: 47% 20% • • 30%

MET GLY SER SER HIS HIS HIS HIS HIS HIS SER SER GLY LEU VAL PRO ARG GLY SER HIS MET ASP ASP ASP ASP LYS F1 C2 E3 Q7 L8 C11 C24 R25 D26 L27 S28 G29 Y34 V35 D36 A37 E38 Q39 K40 L44 R45 K46 G47 K48 C55 E62

4.2.9 Score per residue for model 9

• Molecule 1: Disintegrin and metalloproteinase domain-containing protein 17

Chain A: 48% 20% • • 30%

MET GLY SER SER HIS HIS HIS HIS HIS HIS SER SER GLY LEU VAL PRO ARG GLY SER HIS MET ASP ASP ASP ASP LYS F1 C2 E3 L8 N14 S19 C24 R25 D26 L27 R30 C31 V32 P33 Y34 V35 D36 A37 K40 C50 F54 M57 C61 E62

4.2.10 Score per residue for model 10

• Molecule 1: Disintegrin and metalloproteinase domain-containing protein 17

Chain A: 45% 22% • • 30%

MET GLY SER SER HIS HIS HIS HIS HIS HIS SER SER GLY LEU VAL PRO ARG GLY SER HIS MET ASP ASP ASP ASP LYS F1 C2 E3 Q7 L8 C13 N14 S19 C20 K21 C24 R25 D26 L27 S28 G29 R30 Y34 V35 Q39 K40 L44 C50 D56 M57

K60 C61 E62

4.2.11 Score per residue for model 11 (medoid)

• Molecule 1: Disintegrin and metalloproteinase domain-containing protein 17

Chain A: 49% 16% 5% • 30%

MET GLY SER SER HIS HIS HIS HIS HIS HIS SER SER GLY LEU VAL PRO ARG GLY SER HIS MET ASP ASP ASP ASP LYS F1 C2 E3 Q7 C11 T16 C24 R25 Y34 V35 D36 A37 E38 Q39 K40 N41 L42 F43 L44 R45 K46 G47 K48 T51 C55 E62

4.2.12 Score per residue for model 12

• Molecule 1: Disintegrin and metalloproteinase domain-containing protein 17

Chain A: 50% 17% •• 30%

MET GLY SER SER HIS HIS HIS HIS HIS HIS SER SER GLY LEU VAL PRO ARG GLY SER HIS MET ASP ASP ASP ASP LYS F1 C2 E3 R4 Q7 L8 E9 S10 C11 N14 R25 D26 L27 V35 D36 A37 E38 Q39 K40 K48 P49 C50 E62

4.2.13 Score per residue for model 13

• Molecule 1: Disintegrin and metalloproteinase domain-containing protein 17

Chain A: 50% 17% •• 30%

MET GLY SER SER HIS HIS HIS HIS HIS HIS SER SER GLY LEU VAL PRO ARG GLY SER HIS MET ASP ASP ASP ASP LYS F1 C2 E3 R4 C20 C24 R25 D26 L27 Y34 V35 Q39 K40 K46 G47 K48 P49 C50 F54 C55 C61 E62

4.2.14 Score per residue for model 14

• Molecule 1: Disintegrin and metalloproteinase domain-containing protein 17

Chain A: 47% 19% •• 30%

MET GLY SER SER HIS HIS HIS HIS HIS HIS SER SER GLY LEU VAL PRO ARG GLY SER HIS MET ASP ASP ASP ASP LYS F1 C2 E3 R4 E5 D17 K21 C24 R25 D26 L27 S28 G29 R30 C31 V32 P33 Y34 V35 D36 Q39 K40 R45 K46 C55 K60 C61

E62

4.2.15 Score per residue for model 15

• Molecule 1: Disintegrin and metalloproteinase domain-containing protein 17

Chain A: 44% 20% 5% • 30%

MET GLY SER SER HIS HIS HIS HIS HIS HIS SER SER GLY LEU VAL PRO ARG GLY SER HIS MET ASP ASP ASP ASP LYS F1 C2 E3 R4 Q7 L8 C24 R25 D26 L27 R30 Y34 V35 D36 Q39 K40 K48 V52 G53 F54 N58 G59 K60 C61 E62

4.2.16 Score per residue for model 16

• Molecule 1: Disintegrin and metalloproteinase domain-containing protein 17

Chain A: 44% 20% 5% • 30%

MET GLY SER SER HIS HIS HIS HIS HIS HIS SER SER GLY LEU VAL PRO ARG GLY SER HIS MET ASP ASP ASP ASP LYS F1 C2 E3 R4 E5 Q6 Q7 N14 N18 K21 C24 R25 D26 L27 Y34 V35 Q39 K40 R45 K46 G47 K48 P49 C50 T51 F54

K60 C61 E62

4.2.17 Score per residue for model 17

• Molecule 1: Disintegrin and metalloproteinase domain-containing protein 17

Chain A: 52% 14% • • 30%

MET GLY SER SER HIS HIS HIS HIS HIS HIS SER SER GLY LEU VAL PRO ARG GLY SER HIS MET ASP ASP ASP ASP LYS F1 C2 E3 N18 S19 C20 K21 C24 R25 D26 L27 Y34 V35 Q39 K40 L44 R45 K46 C55 C61 E62

4.2.18 Score per residue for model 18

• Molecule 1: Disintegrin and metalloproteinase domain-containing protein 17

Chain A: 55% 13% • • 30%

MET GLY SER SER HIS HIS HIS HIS HIS HIS SER SER GLY LEU VAL PRO ARG GLY SER HIS MET ASP ASP ASP ASP LYS F1 C2 E3 Q7 L27 Y34 V35 E38 Q39 K40 R45 K46 G47 K48 C55 K60 C61 E62

4.2.19 Score per residue for model 19

• Molecule 1: Disintegrin and metalloproteinase domain-containing protein 17

Chain A: 40% 24% 6% • 30%

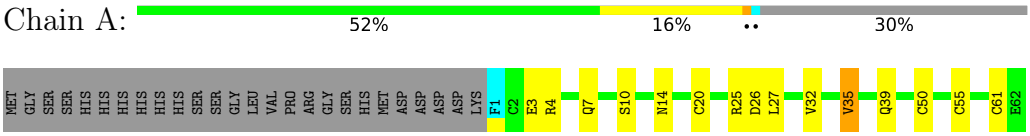
MET GLY SER SER HIS HIS HIS HIS HIS HIS SER SER GLY LEU VAL PRO ARG GLY SER HIS MET ASP ASP ASP ASP LYS F1 C2 E3 R4 E5 Q6 Q7 D17 N18 S19 C20 C24 R25 D26 R30 C31 V32 P33 Y34 V35 D36 A37 E38 Q39 K40 K46 G47 K48 P49 C50

F54 C55 D56 G59 K60 C61 E62

4.2.20 Score per residue for model 20

• Molecule 1: Disintegrin and metalloproteinase domain-containing protein 17

Chain A:


52%
16%
30%
MET GLY SER SER HIS HIS HIS HIS HIS HIS SER SER GLY LEU VAL PRO ARG GLY SER HIS MET ASP ASP ASP ASP LYS F1 C2 E3 R4 Q7 S10 N14 C20 R25 D26 L27 V32 V35 Q39 C50 C55 C61 E62

5 Refinement protocol and experimental data overview (i)

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

Of the 100 calculated structures, 20 were deposited, based on the following criterion: *target function.*

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

Software name	Classification	Version
CYANA	refinement	

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	412
Number of shifts mapped to atoms	412
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	52%

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	1.32±0.03	0±0/473 (0.0± 0.1%)	0.95±0.03	0±0/630 (0.0± 0.0%)
All	All	1.32	4/9460 (0.0%)	0.95	0/12600 (0.0%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	Chirality	Planarity
1	A	0.0±0.0	0.2±0.4
All	All	0	4

All unique bond outliers are listed below. They are sorted according to the Z-score of the worst occurrence in the ensemble.

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
1	A	36	ASP	CA-C	-6.04	1.37	1.52	7	1
1	A	21	LYS	N-CA	-5.61	1.35	1.46	10	1
1	A	36	ASP	C-N	-5.45	1.21	1.34	19	2

There are no bond-angle outliers.

There are no chirality outliers.

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

Mol	Chain	Res	Type	Group	Models (Total)
1	A	4	ARG	Sidechain	2
1	A	13	CYS	Mainchain	1
1	A	25	ARG	Sidechain	1

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	469	438	438	10±2
All	All	9380	8760	8757	190

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 10.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:35:VAL:HG12	1:A:39:GLN:HA	0.71	1.60	12	19
1:A:24:CYS:SG	1:A:34:TYR:HB2	0.70	2.26	19	16
1:A:50:CYS:HB3	1:A:55:CYS:SG	0.67	2.29	19	3
1:A:2:CYS:SG	1:A:8:LEU:HB2	0.67	2.29	2	8
1:A:35:VAL:HA	1:A:40:LYS:O	0.63	1.94	3	18
1:A:44:LEU:HB2	1:A:55:CYS:SG	0.62	2.35	6	3
1:A:3:GLU:O	1:A:7:GLN:HA	0.59	1.98	4	12
1:A:4:ARG:HA	1:A:4:ARG:CZ	0.58	2.28	3	1
1:A:19:SER:HB2	1:A:50:CYS:SG	0.58	2.39	7	1
1:A:34:TYR:CE1	1:A:36:ASP:HB3	0.57	2.35	15	2
1:A:34:TYR:CE1	1:A:36:ASP:HB2	0.57	2.34	9	2
1:A:46:LYS:HA	1:A:55:CYS:O	0.57	1.99	17	2
1:A:19:SER:HB2	1:A:61:CYS:SG	0.56	2.41	17	1
1:A:34:TYR:CE2	1:A:42:LEU:HB3	0.54	2.37	11	4
1:A:4:ARG:HA	1:A:4:ARG:NE	0.54	2.18	3	2
1:A:7:GLN:HE21	1:A:7:GLN:HA	0.53	1.63	5	1
1:A:4:ARG:CZ	1:A:5:GLU:HA	0.52	2.35	7	2
1:A:2:CYS:SG	1:A:6:GLN:HG3	0.52	2.44	6	1
1:A:4:ARG:NH2	1:A:5:GLU:HA	0.51	2.20	16	1
1:A:3:GLU:H	1:A:3:GLU:CD	0.51	2.09	2	9
1:A:52:VAL:HG22	1:A:61:CYS:SG	0.51	2.46	7	2
1:A:54:PHE:O	1:A:61:CYS:HA	0.50	2.06	13	5
1:A:25:ARG:CZ	1:A:29:GLY:HA2	0.49	2.38	6	1
1:A:20:CYS:SG	1:A:61:CYS:SG	0.49	3.10	13	3
1:A:19:SER:OG	1:A:50:CYS:HB2	0.49	2.07	9	3
1:A:17:ASP:HA	1:A:59:GLY:O	0.49	2.07	19	1
1:A:35:VAL:CG1	1:A:39:GLN:HA	0.49	2.37	18	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:55:CYS:HA	1:A:60:LYS:O	0.48	2.09	18	1
1:A:13:CYS:O	1:A:19:SER:HB3	0.48	2.09	6	1
1:A:3:GLU:HA	1:A:8:LEU:O	0.48	2.09	3	2
1:A:9:GLU:OE1	1:A:25:ARG:HB3	0.47	2.09	5	1
1:A:56:ASP:OD2	1:A:57:MET:HG2	0.47	2.09	10	1
1:A:18:ASN:HA	1:A:21:LYS:HG2	0.47	1.87	17	1
1:A:43:PHE:CZ	1:A:59:GLY:HA3	0.47	2.45	4	1
1:A:50:CYS:SG	1:A:51:THR:N	0.47	2.87	16	4
1:A:44:LEU:HB3	1:A:55:CYS:SG	0.47	2.49	17	1
1:A:22:VAL:HG21	1:A:42:LEU:HG	0.47	1.86	4	2
1:A:46:LYS:N	1:A:46:LYS:HD2	0.46	2.25	7	1
1:A:60:LYS:NZ	1:A:60:LYS:HB3	0.46	2.26	10	3
1:A:50:CYS:SG	1:A:55:CYS:HB2	0.46	2.51	13	1
1:A:19:SER:OG	1:A:51:THR:HG23	0.46	2.11	7	2
1:A:27:LEU:HD12	1:A:27:LEU:H	0.46	1.71	9	8
1:A:36:ASP:OD2	1:A:38:GLU:HB2	0.46	2.11	8	1
1:A:20:CYS:SG	1:A:48:LYS:HB3	0.45	2.52	19	1
1:A:28:SER:HB3	1:A:30:ARG:CZ	0.45	2.42	1	3
1:A:54:PHE:O	1:A:62:GLU:HG2	0.45	2.11	15	1
1:A:16:THR:HA	1:A:51:THR:OG1	0.45	2.12	11	3
1:A:34:TYR:OH	1:A:40:LYS:HE2	0.45	2.11	9	1
1:A:27:LEU:H	1:A:27:LEU:HD22	0.44	1.72	5	2
1:A:18:ASN:OD1	1:A:21:LYS:HE3	0.44	2.12	16	1
1:A:21:LYS:HB3	1:A:21:LYS:NZ	0.44	2.28	6	1
1:A:45:ARG:NE	1:A:45:ARG:HA	0.43	2.28	4	1
1:A:2:CYS:HA	1:A:5:GLU:HB2	0.43	1.90	6	1
1:A:46:LYS:HG3	1:A:56:ASP:O	0.43	2.14	7	1
1:A:48:LYS:HA	1:A:48:LYS:HE3	0.43	1.90	15	2
1:A:36:ASP:OD1	1:A:40:LYS:HB2	0.43	2.14	1	1
1:A:6:GLN:HG3	1:A:24:CYS:SG	0.42	2.55	7	1
1:A:17:ASP:OD1	1:A:21:LYS:NZ	0.42	2.51	14	1
1:A:27:LEU:H	1:A:27:LEU:HD23	0.42	1.74	17	3
1:A:43:PHE:CZ	1:A:57:MET:HA	0.41	2.50	3	1
1:A:5:GLU:H	1:A:5:GLU:CD	0.41	2.18	2	2
1:A:38:GLU:OE1	1:A:40:LYS:HG3	0.41	2.16	18	1
1:A:58:ASN:OD1	1:A:60:LYS:HD3	0.41	2.16	15	1
1:A:50:CYS:HB2	1:A:55:CYS:SG	0.41	2.55	7	1
1:A:36:ASP:CG	1:A:37:ALA:H	0.40	2.18	5	1
1:A:25:ARG:HD3	1:A:29:GLY:HA2	0.40	1.93	8	1
1:A:9:GLU:OE2	1:A:25:ARG:HD2	0.40	2.16	12	1

6.3 Torsion angles (i)

6.3.1 Protein backbone (i)

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	60/88 (68%)	54±2 (90±3%)	6±2 (10±3%)	0±0 (0±1%)	38	78
All	All	1200/1760 (68%)	1074 (90%)	121 (10%)	5 (0%)	38	78

All 3 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	37	ALA	3
1	A	2	CYS	1
1	A	14	ASN	1

6.3.2 Protein sidechains (i)

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	55/79 (70%)	48±2 (87±4%)	7±2 (13±4%)	7	49
All	All	1100/1580 (70%)	959 (87%)	141 (13%)	7	49

All 29 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	35	VAL	20
1	A	26	ASP	18
1	A	48	LYS	11
1	A	46	LYS	9
1	A	34	TYR	8
1	A	4	ARG	8
1	A	30	ARG	7

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Mol	Chain	Res	Type	Models (Total)
1	A	3	GLU	7
1	A	45	ARG	6
1	A	27	LEU	5
1	A	14	ASN	5
1	A	32	VAL	5
1	A	9	GLU	3
1	A	7	GLN	3
1	A	21	LYS	3
1	A	60	LYS	3
1	A	11	CYS	3
1	A	25	ARG	3
1	A	38	GLU	3
1	A	44	LEU	2
1	A	40	LYS	1
1	A	58	ASN	1
1	A	18	ASN	1
1	A	6	GLN	1
1	A	57	MET	1
1	A	50	CYS	1
1	A	62	GLU	1
1	A	2	CYS	1
1	A	56	ASP	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 monosaccharides 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 (i)

The completeness of assignment taking into account all chemical shift lists is 52% for the well-defined parts and 52% 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 (i)

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	412
Number of shifts mapped to atoms	412
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	0

7.1.2 Chemical shift referencing (i)

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction ± precision, *ppm*	Suggested action
$^{13}C_{\alpha}$	3	—	None (insufficient data)
$^{13}C_{\beta}$	3	—	None (insufficient data)
$^{13}C'$	0	—	None (insufficient data)
^{15}N	57	-0.09 ± 0.54	None needed (< 0.5 ppm)

7.1.3 Completeness of resonance assignments (i)

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 52%, i.e. 405 atoms were assigned a chemical shift out of a possible 775. 0 out of 8 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	181/305 (59%)	122/124 (98%)	3/122 (2%)	56/59 (95%)
Sidechain	220/441 (50%)	208/279 (75%)	5/138 (4%)	7/24 (29%)

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	Total	^{1}H	^{13}C	^{15}N
Aromatic	4/29 (14%)	4/14 (29%)	0/15 (0%)	0/0 (—%)
Overall	405/775 (52%)	334/417 (80%)	8/275 (3%)	63/83 (76%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 52%, i.e. 412 atoms were assigned a chemical shift out of a possible 793. 0 out of 8 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	184/310 (59%)	124/126 (98%)	3/124 (2%)	57/60 (95%)
Sidechain	222/444 (50%)	210/281 (75%)	5/139 (4%)	7/24 (29%)
Aromatic	6/39 (15%)	6/19 (32%)	0/20 (0%)	0/0 (—%)
Overall	412/793 (52%)	340/426 (80%)	8/283 (3%)	64/84 (76%)

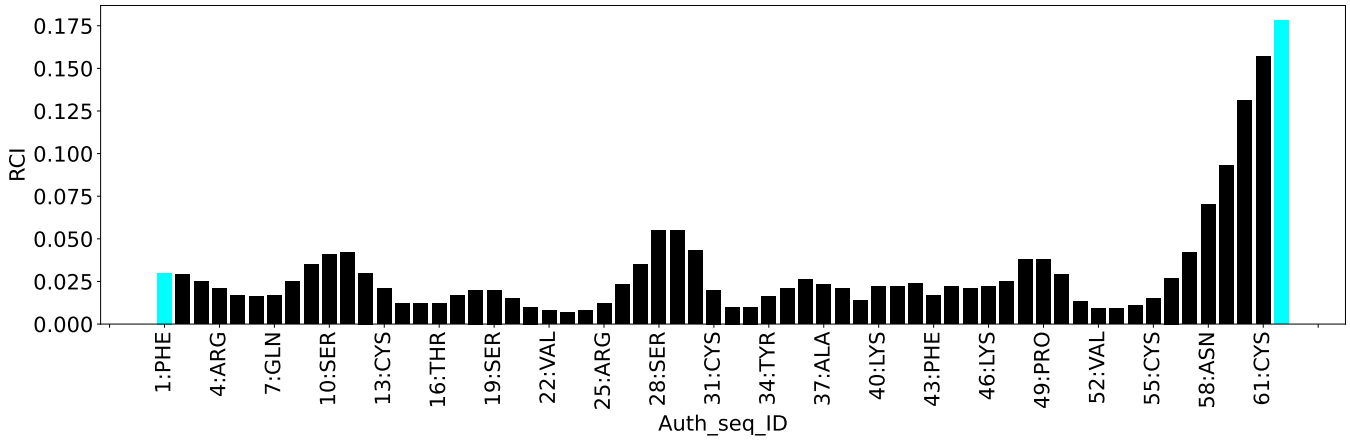
7.1.4 Statistically unusual chemical shifts (i)

There are no statistically unusual chemical shifts.

7.1.5 Random Coil Index (RCI) plots (i)

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

Random coil index (RCI) for chain A:



8 NMR restraints analysis (i)

8.1 Conformationally restricting restraints (i)

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	526
Intra-residue (|i-j|=0)	180
Sequential (|i-j|=1)	183
Medium range (|i-j|>1 and |i-j|<5)	58
Long range (|i-j|≥5)	105
Inter-chain	0
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	0
Number of restraints per residue	6.0
Number of long range restraints per residue[1]	1.2

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

8.2 Residual restraint violations (i)

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 (i)

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)	20.5	0.2
0.2-0.5 (Medium)	28.2	0.5
>0.5 (Large)	50.0	2.67

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

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

9 Distance violation analysis (i)

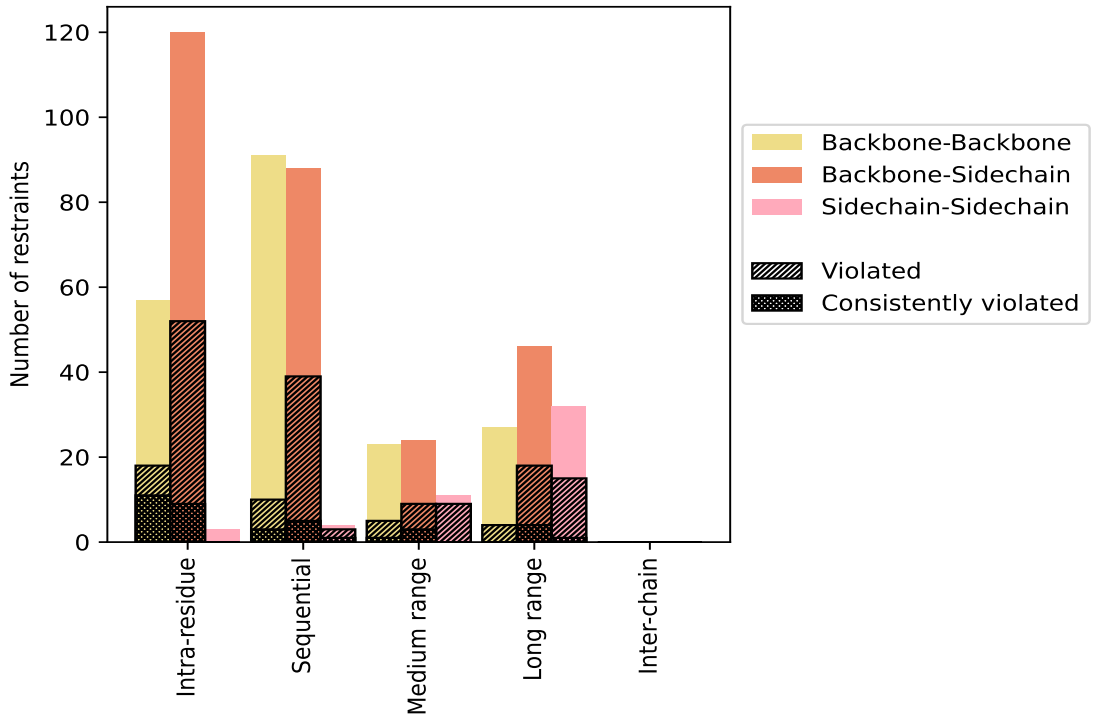
9.1 Summary of distance violations (i)

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

Restraints type	Count	%[1]	Violated[3]			Consistently Violated[4]		
			Count	%[2]	%[1]	Count	%[2]	%[1]
Intra-residue (|i-j|=0)	180	34.2	70	38.9	13.3	20	11.1	3.8
Backbone-Backbone	57	10.8	18	31.6	3.4	11	19.3	2.1
Backbone-Sidechain	120	22.8	52	43.3	9.9	9	7.5	1.7
Sidechain-Sidechain	3	0.6	0	0.0	0.0	0	0.0	0.0
Sequential (|i-j|=1)	183	34.8	52	28.4	9.9	9	4.9	1.7
Backbone-Backbone	91	17.3	10	11.0	1.9	3	3.3	0.6
Backbone-Sidechain	88	16.7	39	44.3	7.4	5	5.7	1.0
Sidechain-Sidechain	4	0.8	3	75.0	0.6	1	25.0	0.2
Medium range (|i-j|>1 & |i-j|<5)	58	11.0	23	39.7	4.4	4	6.9	0.8
Backbone-Backbone	23	4.4	5	21.7	1.0	1	4.3	0.2
Backbone-Sidechain	24	4.6	9	37.5	1.7	3	12.5	0.6
Sidechain-Sidechain	11	2.1	9	81.8	1.7	0	0.0	0.0
Long range (|i-j|≥5)	105	20.0	37	35.2	7.0	5	4.8	1.0
Backbone-Backbone	27	5.1	4	14.8	0.8	0	0.0	0.0
Backbone-Sidechain	46	8.7	18	39.1	3.4	4	8.7	0.8
Sidechain-Sidechain	32	6.1	15	46.9	2.9	1	3.1	0.2
Inter-chain	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Hydrogen bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	526	100.0	182	34.6	34.6	38	7.2	7.2
Backbone-Backbone	198	37.6	37	18.7	7.0	15	7.6	2.9
Backbone-Sidechain	278	52.9	118	42.4	22.4	21	7.6	4.0
Sidechain-Sidechain	50	9.5	27	54.0	5.1	2	4.0	0.4

[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	40	29	14	19	0	102	0.67	2.44	0.46	0.6
2	43	27	12	19	0	101	0.57	1.72	0.39	0.51
3	43	27	11	16	0	97	0.57	1.75	0.42	0.44
4	43	28	11	17	0	99	0.58	1.67	0.39	0.52
5	42	27	11	14	0	94	0.55	1.89	0.37	0.43
6	46	31	13	17	0	107	0.63	2.67	0.46	0.56
7	43	30	11	16	0	100	0.56	2.55	0.41	0.5
8	44	32	13	17	0	106	0.63	2.4	0.44	0.52
9	42	28	13	13	0	96	0.64	2.55	0.46	0.6
10	41	28	14	15	0	98	0.55	1.68	0.36	0.48
11	41	32	13	20	0	106	0.64	2.64	0.5	0.54

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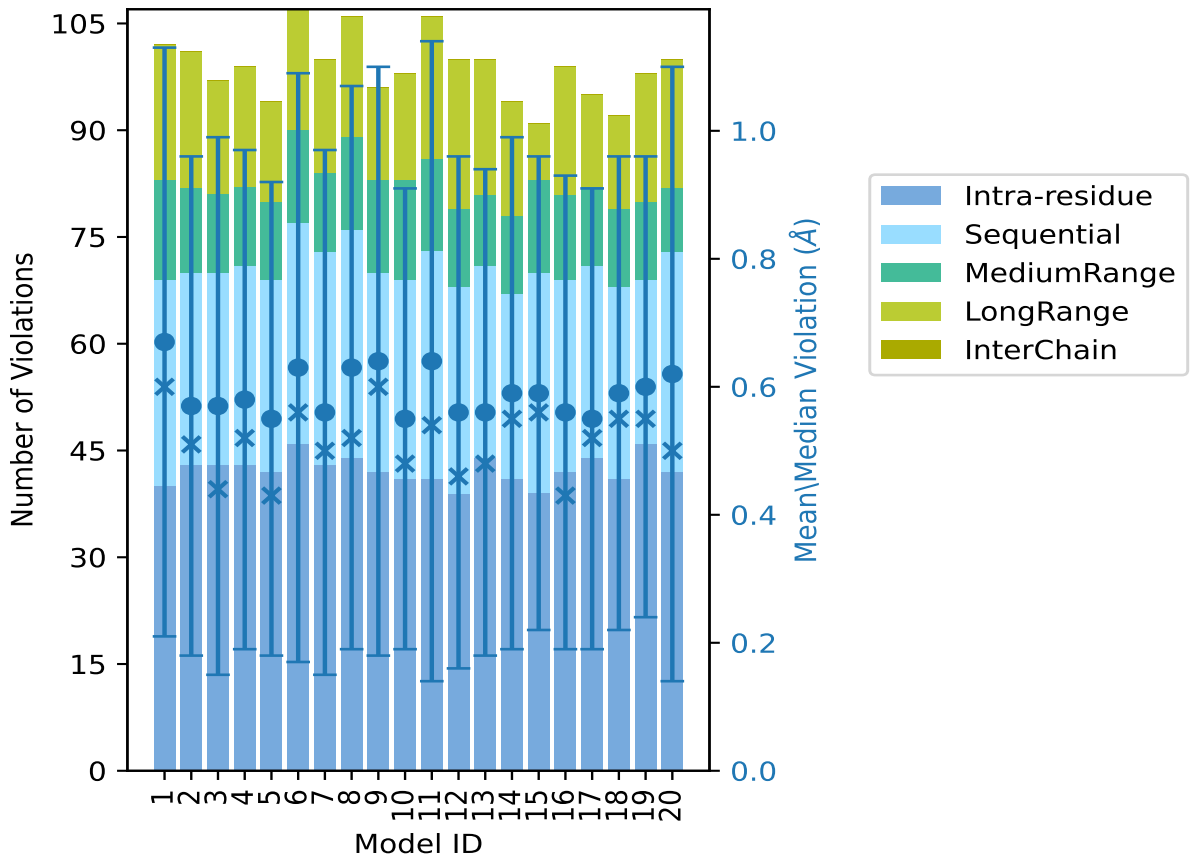
Model ID	Number of violations						Mean (Å)	Max (Å)	SD[6] (Å)	Median (Å)
	IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total				
12	39	29	11	21	0	100	0.56	2.11	0.4	0.46
13	44	27	10	19	0	100	0.56	1.67	0.38	0.48
14	41	26	11	16	0	94	0.59	1.81	0.4	0.55
15	39	31	13	8	0	91	0.59	1.59	0.37	0.56
16	42	27	12	18	0	99	0.56	1.59	0.37	0.43
17	44	27	11	13	0	95	0.55	1.53	0.36	0.52
18	41	27	11	13	0	92	0.59	1.8	0.37	0.55
19	46	23	11	18	0	98	0.6	1.54	0.36	0.55
20	42	31	9	18	0	100	0.62	2.64	0.48	0.5

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

9.2.1 Bar graph : Distance Violation statistics for each model (i)



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

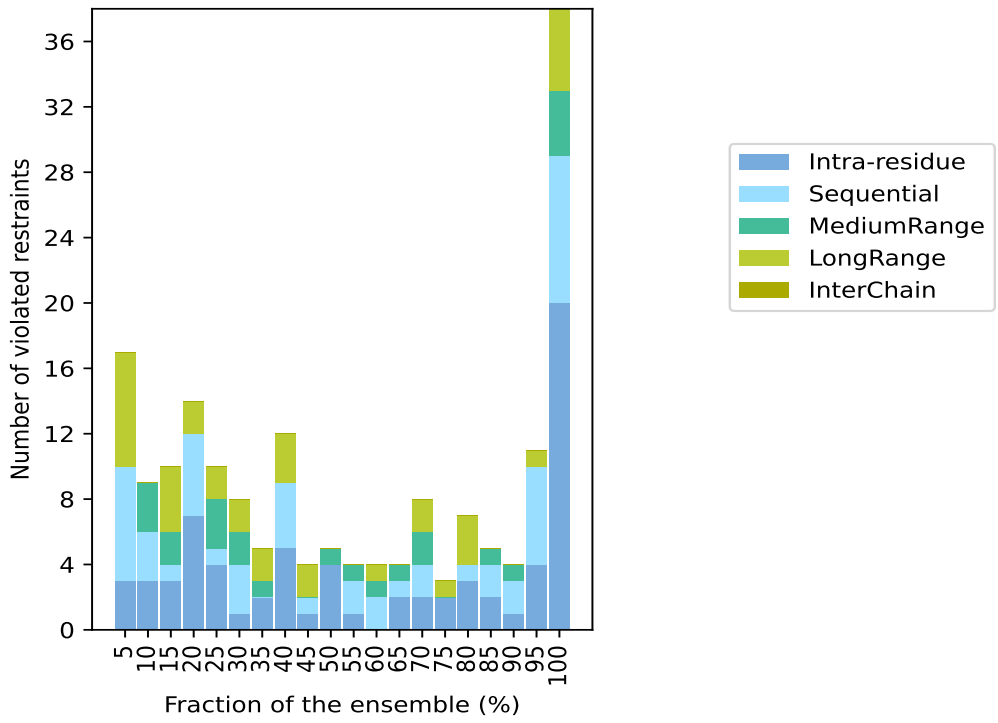
9.3 Distance violation statistics for the ensemble (i)

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, 344(IR:110, SQ:131, MR:35, LR:68, 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]	%
3	7	0	7	0	17	1	5.0
3	3	3	0	0	9	2	10.0
3	1	2	4	0	10	3	15.0
7	5	0	2	0	14	4	20.0
4	1	3	2	0	10	5	25.0
1	3	2	2	0	8	6	30.0
2	0	1	2	0	5	7	35.0
5	4	0	3	0	12	8	40.0
1	1	0	2	0	4	9	45.0
4	0	1	0	0	5	10	50.0
1	2	1	0	0	4	11	55.0
0	2	1	1	0	4	12	60.0
2	1	1	0	0	4	13	65.0
2	2	2	2	0	8	14	70.0
2	0	0	1	0	3	15	75.0
3	1	0	3	0	7	16	80.0
2	2	1	0	0	5	17	85.0
1	2	1	0	0	4	18	90.0
4	6	0	1	0	11	19	95.0
20	9	4	5	0	38	20	100.0

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

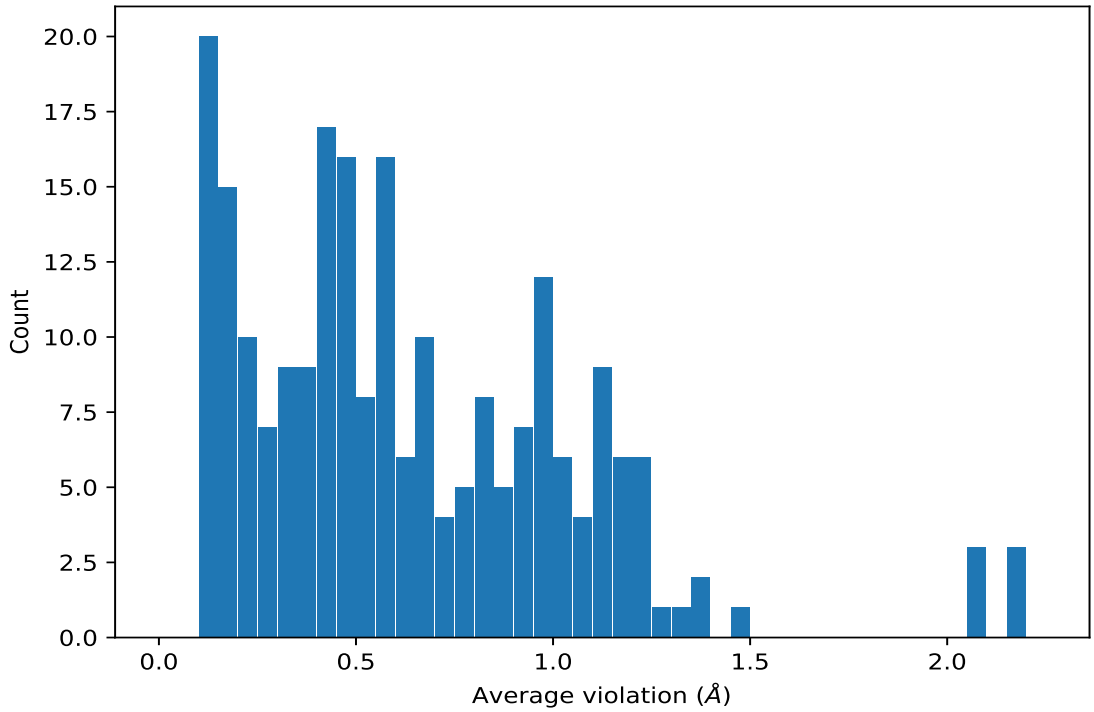
9.3.1 Bar graph : Distance violation statistics for the ensemble (i)



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)
(1,407)	1:A:47:GLY:HA3	1:A:54:PHE:HB3	20	1.49	0.47	1.29
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG11	20	1.23	0.36	1.02
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG12	20	1.23	0.36	1.02
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG13	20	1.23	0.36	1.02
(1,4)	1:A:45:ARG:HB3	1:A:45:ARG:H	20	1.17	0.2	1.27
(1,35)	1:A:27:LEU:HB3	1:A:27:LEU:H	20	1.13	0.24	1.25
(1,174)	1:A:52:VAL:HG11	1:A:54:PHE:H	20	1.1	0.06	1.12
(1,174)	1:A:52:VAL:HG12	1:A:54:PHE:H	20	1.1	0.06	1.12
(1,174)	1:A:52:VAL:HG13	1:A:54:PHE:H	20	1.1	0.06	1.12
(1,390)	1:A:52:VAL:HG11	1:A:62:GLU:H	20	1.07	0.24	1.16
(1,390)	1:A:52:VAL:HG12	1:A:62:GLU:H	20	1.07	0.24	1.16
(1,390)	1:A:52:VAL:HG13	1:A:62:GLU:H	20	1.07	0.24	1.16
(1,13)	1:A:45:ARG:HB2	1:A:46:LYS:H	20	1.04	0.1	1.05
(1,27)	1:A:39:GLN:HB3	1:A:39:GLN:H	20	0.8	0.03	0.79
(1,375)	1:A:6:GLN:HB3	1:A:6:GLN:H	20	0.78	0.07	0.78
(1,43)	1:A:35:VAL:HG11	1:A:35:VAL:H	20	0.75	0.02	0.75

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,43)	1:A:35:VAL:HG12	1:A:35:VAL:H	20	0.75	0.02	0.75
(1,43)	1:A:35:VAL:HG13	1:A:35:VAL:H	20	0.75	0.02	0.75
(1,32)	1:A:24:CYS:HA	1:A:24:CYS:H	20	0.7	0.02	0.7
(1,463)	1:A:52:VAL:HG21	1:A:51:THR:HB	20	0.66	0.08	0.66
(1,463)	1:A:52:VAL:HG22	1:A:51:THR:HB	20	0.66	0.08	0.66
(1,463)	1:A:52:VAL:HG23	1:A:51:THR:HB	20	0.66	0.08	0.66
(1,111)	1:A:41:ASN:HB2	1:A:42:LEU:H	20	0.64	0.1	0.62
(1,140)	1:A:44:LEU:HB2	1:A:45:ARG:H	20	0.64	0.22	0.57
(1,210)	1:A:38:GLU:HB3	1:A:39:GLN:H	20	0.58	0.22	0.68
(1,268)	1:A:24:CYS:HB3	1:A:24:CYS:H	20	0.58	0.06	0.57
(1,162)	1:A:52:VAL:HG11	1:A:61:CYS:H	20	0.55	0.13	0.55
(1,162)	1:A:52:VAL:HG12	1:A:61:CYS:H	20	0.55	0.13	0.55
(1,162)	1:A:52:VAL:HG13	1:A:61:CYS:H	20	0.55	0.13	0.55
(1,362)	1:A:23:CYS:HB2	1:A:32:VAL:H	20	0.49	0.08	0.52
(1,101)	1:A:13:CYS:HB2	1:A:15:GLU:H	20	0.43	0.12	0.45
(1,86)	1:A:23:CYS:HB2	1:A:24:CYS:H	20	0.43	0.15	0.43
(1,286)	1:A:23:CYS:HB3	1:A:23:CYS:H	20	0.42	0.03	0.42
(1,57)	1:A:12:ALA:HA	1:A:12:ALA:H	20	0.41	0.01	0.41
(1,202)	1:A:29:GLY:HA3	1:A:28:SER:H	20	0.35	0.03	0.34
(1,44)	1:A:13:CYS:HB3	1:A:13:CYS:H	20	0.29	0.03	0.3
(1,18)	1:A:55:CYS:HA	1:A:55:CYS:H	20	0.26	0.02	0.26
(1,38)	1:A:19:SER:HA	1:A:19:SER:H	20	0.25	0.02	0.25
(1,299)	1:A:44:LEU:HA	1:A:44:LEU:H	20	0.24	0.03	0.24
(1,310)	1:A:32:VAL:HA	1:A:32:VAL:H	20	0.22	0.01	0.22
(1,137)	1:A:26:ASP:H	1:A:27:LEU:H	20	0.21	0.03	0.22
(1,262)	1:A:38:GLU:HA	1:A:38:GLU:H	20	0.2	0.02	0.2
(1,423)	1:A:36:ASP:HA	1:A:37:ALA:HA	20	0.2	0.04	0.21
(1,248)	1:A:15:GLU:HA	1:A:15:GLU:H	20	0.2	0.02	0.2
(1,388)	1:A:21:LYS:HA	1:A:23:CYS:H	20	0.19	0.02	0.19
(1,288)	1:A:35:VAL:HB	1:A:35:VAL:H	20	0.19	0.03	0.19
(1,205)	1:A:35:VAL:HB	1:A:39:GLN:H	20	0.18	0.02	0.18
(1,274)	1:A:36:ASP:HA	1:A:36:ASP:H	20	0.18	0.02	0.18
(1,304)	1:A:43:PHE:HA	1:A:43:PHE:H	20	0.18	0.03	0.18
(1,263)	1:A:27:LEU:HA	1:A:27:LEU:H	20	0.15	0.01	0.15
(1,55)	1:A:25:ARG:HD3	1:A:25:ARG:H	19	1.4	0.38	1.54
(1,320)	1:A:25:ARG:HB2	1:A:26:ASP:H	19	1.15	0.14	1.22
(1,50)	1:A:25:ARG:HG2	1:A:11:CYS:H	19	1.05	0.34	0.89
(1,51)	1:A:55:CYS:HB3	1:A:56:ASP:H	19	0.97	0.42	1.15
(1,340)	1:A:55:CYS:HB2	1:A:56:ASP:H	19	0.85	0.12	0.83
(1,37)	1:A:18:ASN:HB3	1:A:18:ASN:H	19	0.8	0.04	0.79
(1,285)	1:A:26:ASP:HB2	1:A:26:ASP:H	19	0.54	0.09	0.55
(1,10)	1:A:9:GLU:HB2	1:A:10:SER:H	19	0.52	0.11	0.52

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,67)	1:A:26:ASP:HB3	1:A:27:LEU:H	19	0.4	0.1	0.37
(1,233)	1:A:8:LEU:HB3	1:A:8:LEU:H	19	0.4	0.06	0.4
(1,223)	1:A:7:GLN:HA	1:A:6:GLN:H	19	0.18	0.04	0.18
(1,19)	1:A:25:ARG:HB3	1:A:26:ASP:H	18	0.7	0.23	0.77
(1,168)	1:A:25:ARG:HG3	1:A:29:GLY:H	18	0.63	0.2	0.7
(1,91)	1:A:3:GLU:HB3	1:A:4:ARG:H	18	0.53	0.22	0.58
(1,253)	1:A:28:SER:HA	1:A:28:SER:H	18	0.12	0.01	0.12
(1,246)	1:A:21:LYS:HB3	1:A:21:LYS:H	17	0.99	0.11	1.03
(1,15)	1:A:54:PHE:HB2	1:A:55:CYS:H	17	0.91	0.07	0.94
(1,52)	1:A:54:PHE:HB3	1:A:54:PHE:H	17	0.91	0.03	0.92
(1,193)	1:A:17:ASP:HB2	1:A:18:ASN:H	17	0.71	0.06	0.71
(1,198)	1:A:17:ASP:HB2	1:A:19:SER:H	17	0.62	0.04	0.62
(1,469)	1:A:50:CYS:HB3	1:A:19:SER:HB3	16	1.28	0.37	1.36
(1,270)	1:A:38:GLU:HB3	1:A:38:GLU:H	16	1.18	0.04	1.18
(1,376)	1:A:6:GLN:HG3	1:A:6:GLN:H	16	1.03	0.04	1.02
(1,321)	1:A:25:ARG:HG3	1:A:26:ASP:H	16	0.99	0.21	1.06
(1,28)	1:A:42:LEU:HB3	1:A:42:LEU:H	16	0.69	0.15	0.74
(1,447)	1:A:12:ALA:HA	1:A:23:CYS:HB3	16	0.43	0.12	0.44
(1,171)	1:A:18:ASN:HB2	1:A:13:CYS:H	16	0.33	0.21	0.29
(1,56)	1:A:48:LYS:HB3	1:A:48:LYS:H	15	1.04	0.34	1.14
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG11	15	0.38	0.19	0.42
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG12	15	0.38	0.19	0.42
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG13	15	0.38	0.19	0.42
(1,242)	1:A:4:ARG:HA	1:A:4:ARG:H	15	0.16	0.02	0.16
(1,53)	1:A:62:GLU:HB3	1:A:62:GLU:H	14	0.72	0.11	0.7
(1,275)	1:A:36:ASP:HB2	1:A:36:ASP:H	14	0.58	0.1	0.6
(1,442)	1:A:8:LEU:HD21	1:A:6:GLN:HG2	14	0.5	0.13	0.5
(1,442)	1:A:8:LEU:HD22	1:A:6:GLN:HG2	14	0.5	0.13	0.5
(1,442)	1:A:8:LEU:HD23	1:A:6:GLN:HG2	14	0.5	0.13	0.5
(1,426)	1:A:8:LEU:HD21	1:A:6:GLN:HG3	14	0.47	0.08	0.48
(1,426)	1:A:8:LEU:HD22	1:A:6:GLN:HG3	14	0.47	0.08	0.48
(1,426)	1:A:8:LEU:HD23	1:A:6:GLN:HG3	14	0.47	0.08	0.48
(1,359)	1:A:60:LYS:HB2	1:A:61:CYS:H	14	0.23	0.07	0.22
(1,182)	1:A:8:LEU:HG	1:A:9:GLU:H	14	0.18	0.03	0.18
(1,327)	1:A:8:LEU:HA	1:A:25:ARG:H	14	0.15	0.02	0.16
(1,323)	1:A:22:VAL:HB	1:A:34:TYR:H	14	0.15	0.03	0.15
(1,31)	1:A:2:CYS:HB3	1:A:2:CYS:H	13	0.7	0.14	0.66
(1,416)	1:A:34:TYR:HD1	1:A:36:ASP:HB2	13	0.32	0.07	0.35
(1,416)	1:A:34:TYR:HD2	1:A:36:ASP:HB2	13	0.32	0.07	0.35
(1,139)	1:A:36:ASP:HB3	1:A:37:ALA:H	13	0.25	0.08	0.24
(1,250)	1:A:28:SER:HB2	1:A:28:SER:H	13	0.19	0.03	0.2
(1,78)	1:A:40:LYS:HB2	1:A:41:ASN:H	12	0.85	0.15	0.84

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,355)	1:A:11:CYS:HB2	1:A:25:ARG:H	12	0.83	0.15	0.86
(1,422)	1:A:8:LEU:HD21	1:A:6:GLN:HB2	12	0.4	0.13	0.38
(1,422)	1:A:8:LEU:HD22	1:A:6:GLN:HB2	12	0.4	0.13	0.38
(1,422)	1:A:8:LEU:HD23	1:A:6:GLN:HB2	12	0.4	0.13	0.38
(1,128)	1:A:11:CYS:HB3	1:A:12:ALA:H	12	0.35	0.08	0.34
(1,436)	1:A:33:PRO:HD3	1:A:32:VAL:HG21	11	0.86	0.03	0.86
(1,436)	1:A:33:PRO:HD3	1:A:32:VAL:HG22	11	0.86	0.03	0.86
(1,436)	1:A:33:PRO:HD3	1:A:32:VAL:HG23	11	0.86	0.03	0.86
(1,21)	1:A:27:LEU:HD21	1:A:28:SER:H	11	0.46	0.15	0.52
(1,21)	1:A:27:LEU:HD22	1:A:28:SER:H	11	0.46	0.15	0.52
(1,21)	1:A:27:LEU:HD23	1:A:28:SER:H	11	0.46	0.15	0.52
(1,374)	1:A:53:GLY:HA3	1:A:53:GLY:H	11	0.19	0.04	0.19
(1,441)	1:A:39:GLN:HA	1:A:35:VAL:HB	11	0.13	0.02	0.13
(1,437)	1:A:1:PHE:HA	1:A:5:GLU:HG3	10	0.9	0.29	0.9
(1,379)	1:A:57:MET:HB3	1:A:57:MET:H	10	0.82	0.02	0.82
(1,23)	1:A:5:GLU:HG3	1:A:5:GLU:H	10	0.64	0.16	0.57
(1,273)	1:A:43:PHE:HB2	1:A:43:PHE:H	10	0.46	0.22	0.6
(1,240)	1:A:50:CYS:HB2	1:A:50:CYS:H	10	0.16	0.03	0.15
(1,440)	1:A:26:ASP:HB3	1:A:32:VAL:HG21	9	0.97	0.71	0.95
(1,440)	1:A:26:ASP:HB3	1:A:32:VAL:HG22	9	0.97	0.71	0.95
(1,440)	1:A:26:ASP:HB3	1:A:32:VAL:HG23	9	0.97	0.71	0.95
(1,445)	1:A:26:ASP:HB2	1:A:32:VAL:HG21	9	0.9	0.49	0.88
(1,445)	1:A:26:ASP:HB2	1:A:32:VAL:HG22	9	0.9	0.49	0.88
(1,445)	1:A:26:ASP:HB2	1:A:32:VAL:HG23	9	0.9	0.49	0.88
(1,54)	1:A:62:GLU:HG3	1:A:62:GLU:H	9	0.52	0.16	0.58
(1,117)	1:A:57:MET:HB3	1:A:58:ASN:H	9	0.25	0.09	0.23
(1,112)	1:A:55:CYS:HB3	1:A:48:LYS:H	8	1.17	0.14	1.21
(1,372)	1:A:40:LYS:HB2	1:A:40:LYS:H	8	1.0	0.09	1.02
(1,25)	1:A:38:GLU:HG3	1:A:38:GLU:H	8	0.63	0.15	0.68
(1,402)	1:A:2:CYS:HB2	1:A:3:GLU:H	8	0.59	0.11	0.59
(1,126)	1:A:11:CYS:HB2	1:A:12:ALA:H	8	0.5	0.03	0.5
(1,141)	1:A:40:LYS:HB3	1:A:41:ASN:H	8	0.44	0.08	0.44
(1,252)	1:A:41:ASN:HB3	1:A:41:ASN:H	8	0.4	0.42	0.18
(1,94)	1:A:55:CYS:HB2	1:A:48:LYS:H	8	0.37	0.12	0.33
(1,22)	1:A:40:LYS:HG2	1:A:41:ASN:H	8	0.32	0.18	0.3
(1,30)	1:A:57:MET:HG3	1:A:57:MET:H	8	0.25	0.09	0.25
(1,172)	1:A:56:ASP:HA	1:A:48:LYS:H	8	0.16	0.03	0.16
(1,239)	1:A:50:CYS:HA	1:A:50:CYS:H	8	0.11	0.01	0.11
(1,24)	1:A:7:GLN:HG3	1:A:7:GLN:H	7	1.32	0.12	1.36
(1,328)	1:A:32:VAL:HG21	1:A:26:ASP:H	7	1.19	0.64	1.56
(1,328)	1:A:32:VAL:HG22	1:A:26:ASP:H	7	1.19	0.64	1.56
(1,328)	1:A:32:VAL:HG23	1:A:26:ASP:H	7	1.19	0.64	1.56

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,444)	1:A:34:TYR:HD1	1:A:6:GLN:HG2	7	1.14	0.7	0.88
(1,244)	1:A:43:PHE:HB3	1:A:43:PHE:H	7	1.01	0.31	1.14
(1,425)	1:A:34:TYR:HD1	1:A:36:ASP:HB3	7	0.88	0.32	0.97
(1,424)	1:A:8:LEU:HD11	1:A:6:GLN:HG2	6	2.06	0.54	2.26
(1,424)	1:A:8:LEU:HD12	1:A:6:GLN:HG2	6	2.06	0.54	2.26
(1,424)	1:A:8:LEU:HD13	1:A:6:GLN:HG2	6	2.06	0.54	2.26
(1,439)	1:A:8:LEU:HD11	1:A:6:GLN:HG3	6	1.22	0.36	1.25
(1,439)	1:A:8:LEU:HD12	1:A:6:GLN:HG3	6	1.22	0.36	1.25
(1,439)	1:A:8:LEU:HD13	1:A:6:GLN:HG3	6	1.22	0.36	1.25
(1,459)	1:A:25:ARG:HG2	1:A:11:CYS:HB3	6	0.66	0.39	0.9
(1,459)	1:A:25:ARG:HG2	1:A:11:CYS:HB2	6	0.66	0.39	0.9
(1,446)	1:A:24:CYS:HB2	1:A:8:LEU:HD11	6	0.6	0.22	0.56
(1,446)	1:A:24:CYS:HB2	1:A:8:LEU:HD12	6	0.6	0.22	0.56
(1,446)	1:A:24:CYS:HB2	1:A:8:LEU:HD13	6	0.6	0.22	0.56
(1,446)	1:A:24:CYS:HB3	1:A:8:LEU:HD11	6	0.6	0.22	0.56
(1,446)	1:A:24:CYS:HB3	1:A:8:LEU:HD12	6	0.6	0.22	0.56
(1,446)	1:A:24:CYS:HB3	1:A:8:LEU:HD13	6	0.6	0.22	0.56
(1,41)	1:A:4:ARG:HG2	1:A:5:GLU:H	6	0.36	0.22	0.3
(1,96)	1:A:36:ASP:HB2	1:A:37:ALA:H	6	0.33	0.13	0.3
(1,48)	1:A:25:ARG:HB3	1:A:25:ARG:H	6	0.25	0.13	0.22
(1,149)	1:A:44:LEU:HA	1:A:45:ARG:H	6	0.13	0.01	0.12
(1,471)	1:A:8:LEU:HD11	1:A:6:GLN:HB3	5	2.18	0.64	2.44
(1,471)	1:A:8:LEU:HD12	1:A:6:GLN:HB3	5	2.18	0.64	2.44
(1,471)	1:A:8:LEU:HD13	1:A:6:GLN:HB3	5	2.18	0.64	2.44
(1,451)	1:A:8:LEU:HD11	1:A:6:GLN:HB2	5	1.1	0.12	1.14
(1,451)	1:A:8:LEU:HD12	1:A:6:GLN:HB2	5	1.1	0.12	1.14
(1,451)	1:A:8:LEU:HD13	1:A:6:GLN:HB2	5	1.1	0.12	1.14
(1,254)	1:A:28:SER:HB3	1:A:28:SER:H	5	0.87	0.04	0.9
(1,271)	1:A:27:LEU:HB2	1:A:27:LEU:H	5	0.67	0.02	0.67
(1,438)	1:A:33:PRO:HD3	1:A:32:VAL:HG11	5	0.49	0.0	0.49
(1,438)	1:A:33:PRO:HD3	1:A:32:VAL:HG12	5	0.49	0.0	0.49
(1,438)	1:A:33:PRO:HD3	1:A:32:VAL:HG13	5	0.49	0.0	0.49
(1,438)	1:A:33:PRO:HD2	1:A:32:VAL:HG11	5	0.49	0.0	0.49
(1,438)	1:A:33:PRO:HD2	1:A:32:VAL:HG12	5	0.49	0.0	0.49
(1,438)	1:A:33:PRO:HD2	1:A:32:VAL:HG13	5	0.49	0.0	0.49
(1,90)	1:A:32:VAL:HG21	1:A:24:CYS:H	5	0.44	0.06	0.43
(1,90)	1:A:32:VAL:HG22	1:A:24:CYS:H	5	0.44	0.06	0.43
(1,90)	1:A:32:VAL:HG23	1:A:24:CYS:H	5	0.44	0.06	0.43
(1,1)	1:A:21:LYS:HG3	1:A:21:LYS:H	5	0.32	0.16	0.27
(1,448)	1:A:25:ARG:HG3	1:A:11:CYS:HB3	5	0.31	0.09	0.28
(1,11)	1:A:30:ARG:HD3	1:A:30:ARG:H	5	0.2	0.07	0.23
(1,212)	1:A:27:LEU:HA	1:A:29:GLY:H	5	0.14	0.02	0.14

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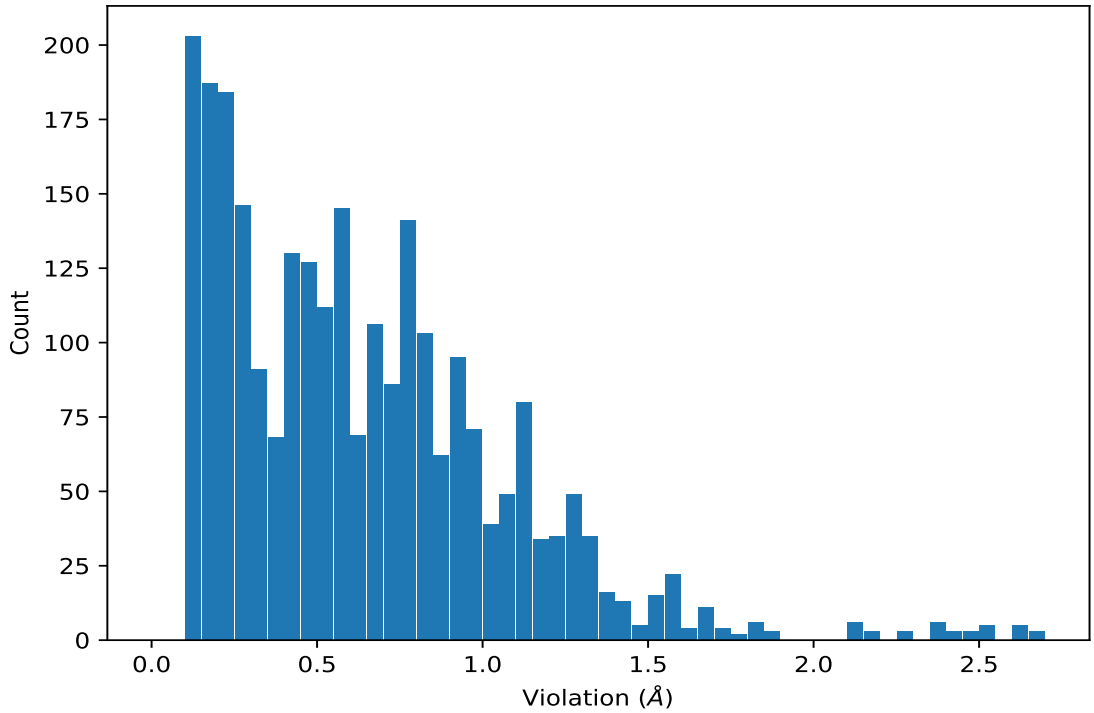
Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,36)	1:A:39:GLN:HG3	1:A:39:GLN:H	4	1.35	0.01	1.36
(1,26)	1:A:6:GLN:HB2	1:A:6:GLN:H	4	1.03	0.02	1.04
(1,408)	1:A:34:TYR:HD1	1:A:42:LEU:HD11	4	0.96	0.01	0.96
(1,408)	1:A:34:TYR:HD1	1:A:42:LEU:HD12	4	0.96	0.01	0.96
(1,408)	1:A:34:TYR:HD1	1:A:42:LEU:HD13	4	0.96	0.01	0.96
(1,408)	1:A:34:TYR:HD2	1:A:42:LEU:HD11	4	0.96	0.01	0.96
(1,408)	1:A:34:TYR:HD2	1:A:42:LEU:HD12	4	0.96	0.01	0.96
(1,408)	1:A:34:TYR:HD2	1:A:42:LEU:HD13	4	0.96	0.01	0.96
(1,14)	1:A:25:ARG:HD2	1:A:26:ASP:H	4	0.92	0.15	0.88
(1,373)	1:A:38:GLU:HB2	1:A:38:GLU:H	4	0.84	0.04	0.84
(1,97)	1:A:14:ASN:HB3	1:A:15:GLU:H	4	0.71	0.04	0.73
(1,434)	1:A:22:VAL:HB	1:A:42:LEU:HD11	4	0.57	0.15	0.57
(1,434)	1:A:22:VAL:HB	1:A:42:LEU:HD12	4	0.57	0.15	0.57
(1,434)	1:A:22:VAL:HB	1:A:42:LEU:HD13	4	0.57	0.15	0.57
(1,278)	1:A:25:ARG:HB2	1:A:25:ARG:H	4	0.4	0.45	0.16
(1,33)	1:A:14:ASN:HB3	1:A:14:ASN:H	4	0.38	0.01	0.38
(1,16)	1:A:3:GLU:HG2	1:A:4:ARG:H	4	0.24	0.1	0.22
(1,76)	1:A:19:SER:HB3	1:A:19:SER:H	4	0.14	0.02	0.15
(1,136)	1:A:18:ASN:HB3	1:A:19:SER:H	4	0.14	0.02	0.14
(1,82)	1:A:18:ASN:HA	1:A:19:SER:H	4	0.12	0.01	0.12
(1,303)	1:A:45:ARG:HA	1:A:45:ARG:H	4	0.11	0.0	0.11
(1,264)	1:A:58:ASN:HB3	1:A:58:ASN:H	3	0.46	0.02	0.47
(1,164)	1:A:15:GLU:HG3	1:A:18:ASN:H	3	0.46	0.02	0.46
(1,411)	1:A:47:GLY:HA2	1:A:54:PHE:HB3	3	0.41	0.05	0.42
(1,235)	1:A:50:CYS:HB3	1:A:50:CYS:H	3	0.37	0.07	0.38
(1,336)	1:A:62:GLU:HG3	1:A:54:PHE:H	3	0.37	0.07	0.35
(1,465)	1:A:61:CYS:HB3	1:A:16:THR:HG21	3	0.19	0.05	0.17
(1,465)	1:A:61:CYS:HB3	1:A:16:THR:HG22	3	0.19	0.05	0.17
(1,465)	1:A:61:CYS:HB3	1:A:16:THR:HG23	3	0.19	0.05	0.17
(1,163)	1:A:13:CYS:HA	1:A:15:GLU:H	3	0.15	0.03	0.14
(1,216)	1:A:38:GLU:H	1:A:39:GLN:H	3	0.13	0.02	0.12
(1,342)	1:A:41:ASN:HA	1:A:36:ASP:H	3	0.12	0.0	0.12
(1,267)	1:A:2:CYS:HA	1:A:2:CYS:H	3	0.11	0.0	0.11
(1,46)	1:A:40:LYS:HG3	1:A:36:ASP:H	2	0.82	0.1	0.82
(1,371)	1:A:21:LYS:HB2	1:A:21:LYS:H	2	0.76	0.0	0.76
(1,3)	1:A:21:LYS:HD3	1:A:21:LYS:H	2	0.74	0.2	0.74
(1,295)	1:A:56:ASP:HB2	1:A:56:ASP:H	2	0.38	0.06	0.38
(1,75)	1:A:2:CYS:HB3	1:A:3:GLU:H	2	0.22	0.04	0.22
(1,73)	1:A:3:GLU:H	1:A:2:CYS:H	2	0.15	0.02	0.15
(1,88)	1:A:16:THR:HA	1:A:19:SER:H	2	0.14	0.0	0.14
(1,220)	1:A:3:GLU:HA	1:A:7:GLN:H	2	0.13	0.01	0.13
(1,127)	1:A:9:GLU:H	1:A:8:LEU:H	2	0.12	0.0	0.12

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

9.5 All violated distance restraints (i)

9.5.1 Histogram : Distribution of distance violations (i)

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



9.5.2 Table : All distance violations (i)

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

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,471)	1:A:8:LEU:HD11	1:A:6:GLN:HB3	6	2.67
(1,471)	1:A:8:LEU:HD12	1:A:6:GLN:HB3	6	2.67
(1,471)	1:A:8:LEU:HD13	1:A:6:GLN:HB3	6	2.67
(1,440)	1:A:26:ASP:HB3	1:A:32:VAL:HG21	11	2.64
(1,440)	1:A:26:ASP:HB3	1:A:32:VAL:HG22	11	2.64
(1,440)	1:A:26:ASP:HB3	1:A:32:VAL:HG23	11	2.64
(1,407)	1:A:47:GLY:HA3	1:A:54:PHE:HB3	11	2.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,407)	1:A:47:GLY:HA3	1:A:54:PHE:HB3	20	2.64
(1,471)	1:A:8:LEU:HD11	1:A:6:GLN:HB3	9	2.55
(1,471)	1:A:8:LEU:HD12	1:A:6:GLN:HB3	9	2.55
(1,471)	1:A:8:LEU:HD13	1:A:6:GLN:HB3	9	2.55
(1,407)	1:A:47:GLY:HA3	1:A:54:PHE:HB3	7	2.55
(1,444)	1:A:34:TYR:HD1	1:A:6:GLN:HG2	20	2.53
(1,424)	1:A:8:LEU:HD11	1:A:6:GLN:HG2	6	2.45
(1,424)	1:A:8:LEU:HD12	1:A:6:GLN:HG2	6	2.45
(1,424)	1:A:8:LEU:HD13	1:A:6:GLN:HG2	6	2.45
(1,471)	1:A:8:LEU:HD11	1:A:6:GLN:HB3	1	2.44
(1,471)	1:A:8:LEU:HD12	1:A:6:GLN:HB3	1	2.44
(1,471)	1:A:8:LEU:HD13	1:A:6:GLN:HB3	1	2.44
(1,424)	1:A:8:LEU:HD11	1:A:6:GLN:HG2	8	2.4
(1,424)	1:A:8:LEU:HD12	1:A:6:GLN:HG2	8	2.4
(1,424)	1:A:8:LEU:HD13	1:A:6:GLN:HG2	8	2.4
(1,424)	1:A:8:LEU:HD11	1:A:6:GLN:HG2	1	2.35
(1,424)	1:A:8:LEU:HD12	1:A:6:GLN:HG2	1	2.35
(1,424)	1:A:8:LEU:HD13	1:A:6:GLN:HG2	1	2.35
(1,471)	1:A:8:LEU:HD11	1:A:6:GLN:HB3	11	2.3
(1,471)	1:A:8:LEU:HD12	1:A:6:GLN:HB3	11	2.3
(1,471)	1:A:8:LEU:HD13	1:A:6:GLN:HB3	11	2.3
(1,424)	1:A:8:LEU:HD11	1:A:6:GLN:HG2	9	2.16
(1,424)	1:A:8:LEU:HD12	1:A:6:GLN:HG2	9	2.16
(1,424)	1:A:8:LEU:HD13	1:A:6:GLN:HG2	9	2.16
(1,424)	1:A:8:LEU:HD11	1:A:6:GLN:HG2	11	2.12
(1,424)	1:A:8:LEU:HD12	1:A:6:GLN:HG2	11	2.12
(1,424)	1:A:8:LEU:HD13	1:A:6:GLN:HG2	11	2.12
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG11	12	2.11
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG12	12	2.11
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG13	12	2.11
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG11	5	1.89
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG12	5	1.89
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG13	5	1.89
(1,469)	1:A:50:CYS:HB3	1:A:19:SER:HB3	6	1.83
(1,469)	1:A:50:CYS:HB3	1:A:19:SER:HB3	14	1.81
(1,435)	1:A:34:TYR:HD2	1:A:42:LEU:HD21	20	1.81
(1,435)	1:A:34:TYR:HD2	1:A:42:LEU:HD22	20	1.81
(1,435)	1:A:34:TYR:HD2	1:A:42:LEU:HD23	20	1.81
(1,444)	1:A:34:TYR:HD1	1:A:6:GLN:HG2	18	1.8
(1,50)	1:A:25:ARG:HG2	1:A:11:CYS:H	3	1.75
(1,453)	1:A:25:ARG:HG3	1:A:11:CYS:HB2	20	1.75
(1,55)	1:A:25:ARG:HD3	1:A:25:ARG:H	2	1.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,439)	1:A:8:LEU:HD11	1:A:6:GLN:HG3	8	1.71
(1,439)	1:A:8:LEU:HD12	1:A:6:GLN:HG3	8	1.71
(1,439)	1:A:8:LEU:HD13	1:A:6:GLN:HG3	8	1.71
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG11	10	1.68
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG12	10	1.68
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG13	10	1.68
(1,50)	1:A:25:ARG:HG2	1:A:11:CYS:H	2	1.67
(1,469)	1:A:50:CYS:HB3	1:A:19:SER:HB3	4	1.67
(1,328)	1:A:32:VAL:HG21	1:A:26:ASP:H	13	1.67
(1,328)	1:A:32:VAL:HG22	1:A:26:ASP:H	13	1.67
(1,328)	1:A:32:VAL:HG23	1:A:26:ASP:H	13	1.67
(1,55)	1:A:25:ARG:HD3	1:A:25:ARG:H	4	1.66
(1,50)	1:A:25:ARG:HG2	1:A:11:CYS:H	4	1.66
(1,50)	1:A:25:ARG:HG2	1:A:11:CYS:H	12	1.66
(1,55)	1:A:25:ARG:HD3	1:A:25:ARG:H	3	1.64
(1,328)	1:A:32:VAL:HG21	1:A:26:ASP:H	12	1.61
(1,328)	1:A:32:VAL:HG22	1:A:26:ASP:H	12	1.61
(1,328)	1:A:32:VAL:HG23	1:A:26:ASP:H	12	1.61
(1,55)	1:A:25:ARG:HD3	1:A:25:ARG:H	15	1.59
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG11	16	1.59
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG12	16	1.59
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG13	16	1.59
(1,55)	1:A:25:ARG:HD3	1:A:25:ARG:H	9	1.58
(1,328)	1:A:32:VAL:HG21	1:A:26:ASP:H	1	1.58
(1,328)	1:A:32:VAL:HG22	1:A:26:ASP:H	1	1.58
(1,328)	1:A:32:VAL:HG23	1:A:26:ASP:H	1	1.58
(1,51)	1:A:55:CYS:HB3	1:A:56:ASP:H	3	1.57
(1,469)	1:A:50:CYS:HB3	1:A:19:SER:HB3	20	1.57
(1,445)	1:A:26:ASP:HB2	1:A:32:VAL:HG21	1	1.57
(1,445)	1:A:26:ASP:HB2	1:A:32:VAL:HG22	1	1.57
(1,445)	1:A:26:ASP:HB2	1:A:32:VAL:HG23	1	1.57
(1,328)	1:A:32:VAL:HG21	1:A:26:ASP:H	8	1.56
(1,328)	1:A:32:VAL:HG22	1:A:26:ASP:H	8	1.56
(1,328)	1:A:32:VAL:HG23	1:A:26:ASP:H	8	1.56
(1,55)	1:A:25:ARG:HD3	1:A:25:ARG:H	8	1.55
(1,55)	1:A:25:ARG:HD3	1:A:25:ARG:H	10	1.55
(1,55)	1:A:25:ARG:HD3	1:A:25:ARG:H	16	1.55
(1,328)	1:A:32:VAL:HG21	1:A:26:ASP:H	11	1.55
(1,328)	1:A:32:VAL:HG22	1:A:26:ASP:H	11	1.55
(1,328)	1:A:32:VAL:HG23	1:A:26:ASP:H	11	1.55
(1,55)	1:A:25:ARG:HD3	1:A:25:ARG:H	1	1.54
(1,55)	1:A:25:ARG:HD3	1:A:25:ARG:H	7	1.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,55)	1:A:25:ARG:HD3	1:A:25:ARG:H	13	1.54
(1,55)	1:A:25:ARG:HD3	1:A:25:ARG:H	14	1.54
(1,55)	1:A:25:ARG:HD3	1:A:25:ARG:H	18	1.54
(1,55)	1:A:25:ARG:HD3	1:A:25:ARG:H	19	1.54
(1,469)	1:A:50:CYS:HB3	1:A:19:SER:HB3	2	1.54
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG11	15	1.54
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG12	15	1.54
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG13	15	1.54
(1,55)	1:A:25:ARG:HD3	1:A:25:ARG:H	17	1.53
(1,469)	1:A:50:CYS:HB3	1:A:19:SER:HB3	9	1.53
(1,445)	1:A:26:ASP:HB2	1:A:32:VAL:HG21	8	1.52
(1,445)	1:A:26:ASP:HB2	1:A:32:VAL:HG22	8	1.52
(1,445)	1:A:26:ASP:HB2	1:A:32:VAL:HG23	8	1.52
(1,445)	1:A:26:ASP:HB2	1:A:32:VAL:HG21	13	1.49
(1,445)	1:A:26:ASP:HB2	1:A:32:VAL:HG22	13	1.49
(1,445)	1:A:26:ASP:HB2	1:A:32:VAL:HG23	13	1.49
(1,51)	1:A:55:CYS:HB3	1:A:56:ASP:H	8	1.48
(1,469)	1:A:50:CYS:HB3	1:A:19:SER:HB3	11	1.46
(1,439)	1:A:8:LEU:HD11	1:A:6:GLN:HG3	6	1.44
(1,439)	1:A:8:LEU:HD12	1:A:6:GLN:HG3	6	1.44
(1,439)	1:A:8:LEU:HD13	1:A:6:GLN:HG3	6	1.44
(1,24)	1:A:7:GLN:HG3	1:A:7:GLN:H	3	1.44
(1,55)	1:A:25:ARG:HD3	1:A:25:ARG:H	5	1.43
(1,112)	1:A:55:CYS:HB3	1:A:48:LYS:H	19	1.43
(1,51)	1:A:55:CYS:HB3	1:A:56:ASP:H	18	1.42
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG11	1	1.42
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG12	1	1.42
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG13	1	1.42
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG11	18	1.41
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG12	18	1.41
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG13	18	1.41
(1,439)	1:A:8:LEU:HD11	1:A:6:GLN:HG3	1	1.39
(1,439)	1:A:8:LEU:HD12	1:A:6:GLN:HG3	1	1.39
(1,439)	1:A:8:LEU:HD13	1:A:6:GLN:HG3	1	1.39
(1,51)	1:A:55:CYS:HB3	1:A:56:ASP:H	11	1.38
(1,469)	1:A:50:CYS:HB3	1:A:19:SER:HB3	3	1.38
(1,24)	1:A:7:GLN:HG3	1:A:7:GLN:H	14	1.37
(1,24)	1:A:7:GLN:HG3	1:A:7:GLN:H	19	1.37
(1,4)	1:A:45:ARG:HB3	1:A:45:ARG:H	17	1.36
(1,390)	1:A:52:VAL:HG11	1:A:62:GLU:H	19	1.36
(1,390)	1:A:52:VAL:HG12	1:A:62:GLU:H	19	1.36
(1,390)	1:A:52:VAL:HG13	1:A:62:GLU:H	19	1.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,36)	1:A:39:GLN:HG3	1:A:39:GLN:H	4	1.36
(1,36)	1:A:39:GLN:HG3	1:A:39:GLN:H	7	1.36
(1,24)	1:A:7:GLN:HG3	1:A:7:GLN:H	5	1.36
(1,407)	1:A:47:GLY:HA3	1:A:54:PHE:HB3	17	1.35
(1,36)	1:A:39:GLN:HG3	1:A:39:GLN:H	15	1.35
(1,407)	1:A:47:GLY:HA3	1:A:54:PHE:HB3	4	1.34
(1,36)	1:A:39:GLN:HG3	1:A:39:GLN:H	2	1.34
(1,24)	1:A:7:GLN:HG3	1:A:7:GLN:H	1	1.34
(1,56)	1:A:48:LYS:HB3	1:A:48:LYS:H	7	1.33
(1,469)	1:A:50:CYS:HB3	1:A:19:SER:HB3	8	1.33
(1,407)	1:A:47:GLY:HA3	1:A:54:PHE:HB3	14	1.33
(1,390)	1:A:52:VAL:HG11	1:A:62:GLU:H	2	1.33
(1,390)	1:A:52:VAL:HG12	1:A:62:GLU:H	2	1.33
(1,390)	1:A:52:VAL:HG13	1:A:62:GLU:H	2	1.33
(1,390)	1:A:52:VAL:HG11	1:A:62:GLU:H	6	1.33
(1,390)	1:A:52:VAL:HG12	1:A:62:GLU:H	6	1.33
(1,390)	1:A:52:VAL:HG13	1:A:62:GLU:H	6	1.33
(1,437)	1:A:1:PHE:HA	1:A:5:GLU:HG3	12	1.32
(1,407)	1:A:47:GLY:HA3	1:A:54:PHE:HB3	2	1.32
(1,4)	1:A:45:ARG:HB3	1:A:45:ARG:H	12	1.32
(1,4)	1:A:45:ARG:HB3	1:A:45:ARG:H	15	1.32
(1,390)	1:A:52:VAL:HG11	1:A:62:GLU:H	14	1.32
(1,390)	1:A:52:VAL:HG12	1:A:62:GLU:H	14	1.32
(1,390)	1:A:52:VAL:HG13	1:A:62:GLU:H	14	1.32
(1,35)	1:A:27:LEU:HB3	1:A:27:LEU:H	6	1.32
(1,24)	1:A:7:GLN:HG3	1:A:7:GLN:H	9	1.32
(1,407)	1:A:47:GLY:HA3	1:A:54:PHE:HB3	18	1.31
(1,4)	1:A:45:ARG:HB3	1:A:45:ARG:H	19	1.31
(1,4)	1:A:45:ARG:HB3	1:A:45:ARG:H	20	1.31
(1,35)	1:A:27:LEU:HB3	1:A:27:LEU:H	7	1.31
(1,35)	1:A:27:LEU:HB3	1:A:27:LEU:H	8	1.31
(1,35)	1:A:27:LEU:HB3	1:A:27:LEU:H	16	1.31
(1,56)	1:A:48:LYS:HB3	1:A:48:LYS:H	14	1.3
(1,407)	1:A:47:GLY:HA3	1:A:54:PHE:HB3	8	1.3
(1,4)	1:A:45:ARG:HB3	1:A:45:ARG:H	6	1.3
(1,4)	1:A:45:ARG:HB3	1:A:45:ARG:H	16	1.3
(1,390)	1:A:52:VAL:HG11	1:A:62:GLU:H	8	1.3
(1,390)	1:A:52:VAL:HG12	1:A:62:GLU:H	8	1.3
(1,390)	1:A:52:VAL:HG13	1:A:62:GLU:H	8	1.3
(1,35)	1:A:27:LEU:HB3	1:A:27:LEU:H	15	1.3
(1,407)	1:A:47:GLY:HA3	1:A:54:PHE:HB3	1	1.29
(1,407)	1:A:47:GLY:HA3	1:A:54:PHE:HB3	6	1.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,407)	1:A:47:GLY:HA3	1:A:54:PHE:HB3	13	1.29
(1,390)	1:A:52:VAL:HG11	1:A:62:GLU:H	3	1.29
(1,390)	1:A:52:VAL:HG12	1:A:62:GLU:H	3	1.29
(1,390)	1:A:52:VAL:HG13	1:A:62:GLU:H	3	1.29
(1,35)	1:A:27:LEU:HB3	1:A:27:LEU:H	1	1.29
(1,35)	1:A:27:LEU:HB3	1:A:27:LEU:H	3	1.29
(1,35)	1:A:27:LEU:HB3	1:A:27:LEU:H	4	1.29
(1,35)	1:A:27:LEU:HB3	1:A:27:LEU:H	12	1.29
(1,51)	1:A:55:CYS:HB3	1:A:56:ASP:H	6	1.28
(1,437)	1:A:1:PHE:HA	1:A:5:GLU:HG3	2	1.28
(1,425)	1:A:34:TYR:HD1	1:A:36:ASP:HB3	5	1.28
(1,407)	1:A:47:GLY:HA3	1:A:54:PHE:HB3	3	1.28
(1,407)	1:A:47:GLY:HA3	1:A:54:PHE:HB3	12	1.28
(1,407)	1:A:47:GLY:HA3	1:A:54:PHE:HB3	15	1.28
(1,407)	1:A:47:GLY:HA3	1:A:54:PHE:HB3	16	1.28
(1,4)	1:A:45:ARG:HB3	1:A:45:ARG:H	1	1.28
(1,56)	1:A:48:LYS:HB3	1:A:48:LYS:H	3	1.27
(1,56)	1:A:48:LYS:HB3	1:A:48:LYS:H	15	1.27
(1,56)	1:A:48:LYS:HB3	1:A:48:LYS:H	20	1.27
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG11	7	1.27
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG12	7	1.27
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG13	7	1.27
(1,407)	1:A:47:GLY:HA3	1:A:54:PHE:HB3	10	1.27
(1,4)	1:A:45:ARG:HB3	1:A:45:ARG:H	3	1.27
(1,4)	1:A:45:ARG:HB3	1:A:45:ARG:H	10	1.27
(1,451)	1:A:8:LEU:HD11	1:A:6:GLN:HB2	6	1.26
(1,451)	1:A:8:LEU:HD12	1:A:6:GLN:HB2	6	1.26
(1,451)	1:A:8:LEU:HD13	1:A:6:GLN:HB2	6	1.26
(1,440)	1:A:26:ASP:HB3	1:A:32:VAL:HG21	13	1.26
(1,440)	1:A:26:ASP:HB3	1:A:32:VAL:HG22	13	1.26
(1,440)	1:A:26:ASP:HB3	1:A:32:VAL:HG23	13	1.26
(1,407)	1:A:47:GLY:HA3	1:A:54:PHE:HB3	5	1.26
(1,407)	1:A:47:GLY:HA3	1:A:54:PHE:HB3	9	1.26
(1,4)	1:A:45:ARG:HB3	1:A:45:ARG:H	7	1.26
(1,390)	1:A:52:VAL:HG11	1:A:62:GLU:H	20	1.26
(1,390)	1:A:52:VAL:HG12	1:A:62:GLU:H	20	1.26
(1,390)	1:A:52:VAL:HG13	1:A:62:GLU:H	20	1.26
(1,35)	1:A:27:LEU:HB3	1:A:27:LEU:H	11	1.26
(1,320)	1:A:25:ARG:HB2	1:A:26:ASP:H	1	1.26
(1,320)	1:A:25:ARG:HB2	1:A:26:ASP:H	13	1.26
(1,320)	1:A:25:ARG:HB2	1:A:26:ASP:H	19	1.26
(1,4)	1:A:45:ARG:HB3	1:A:45:ARG:H	8	1.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4)	1:A:45:ARG:HB3	1:A:45:ARG:H	18	1.25
(1,320)	1:A:25:ARG:HB2	1:A:26:ASP:H	7	1.25
(1,320)	1:A:25:ARG:HB2	1:A:26:ASP:H	8	1.25
(1,320)	1:A:25:ARG:HB2	1:A:26:ASP:H	14	1.25
(1,112)	1:A:55:CYS:HB3	1:A:48:LYS:H	20	1.25
(1,56)	1:A:48:LYS:HB3	1:A:48:LYS:H	16	1.24
(1,390)	1:A:52:VAL:HG11	1:A:62:GLU:H	5	1.24
(1,390)	1:A:52:VAL:HG12	1:A:62:GLU:H	5	1.24
(1,390)	1:A:52:VAL:HG13	1:A:62:GLU:H	5	1.24
(1,169)	1:A:25:ARG:HB2	1:A:11:CYS:H	20	1.24
(1,112)	1:A:55:CYS:HB3	1:A:48:LYS:H	1	1.24
(1,51)	1:A:55:CYS:HB3	1:A:56:ASP:H	12	1.23
(1,35)	1:A:27:LEU:HB3	1:A:27:LEU:H	9	1.23
(1,35)	1:A:27:LEU:HB3	1:A:27:LEU:H	14	1.23
(1,320)	1:A:25:ARG:HB2	1:A:26:ASP:H	6	1.23
(1,320)	1:A:25:ARG:HB2	1:A:26:ASP:H	9	1.23
(1,320)	1:A:25:ARG:HB2	1:A:26:ASP:H	17	1.23
(1,78)	1:A:40:LYS:HB2	1:A:41:ASN:H	1	1.22
(1,56)	1:A:48:LYS:HB3	1:A:48:LYS:H	17	1.22
(1,407)	1:A:47:GLY:HA3	1:A:54:PHE:HB3	19	1.22
(1,35)	1:A:27:LEU:HB3	1:A:27:LEU:H	19	1.22
(1,320)	1:A:25:ARG:HB2	1:A:26:ASP:H	10	1.22
(1,17)	1:A:10:SER:HB3	1:A:10:SER:H	9	1.22
(1,51)	1:A:55:CYS:HB3	1:A:56:ASP:H	17	1.21
(1,469)	1:A:50:CYS:HB3	1:A:19:SER:HB3	10	1.21
(1,440)	1:A:26:ASP:HB3	1:A:32:VAL:HG21	1	1.21
(1,440)	1:A:26:ASP:HB3	1:A:32:VAL:HG22	1	1.21
(1,440)	1:A:26:ASP:HB3	1:A:32:VAL:HG23	1	1.21
(1,390)	1:A:52:VAL:HG11	1:A:62:GLU:H	13	1.21
(1,390)	1:A:52:VAL:HG12	1:A:62:GLU:H	13	1.21
(1,390)	1:A:52:VAL:HG13	1:A:62:GLU:H	13	1.21
(1,35)	1:A:27:LEU:HB3	1:A:27:LEU:H	5	1.21
(1,35)	1:A:27:LEU:HB3	1:A:27:LEU:H	20	1.21
(1,320)	1:A:25:ARG:HB2	1:A:26:ASP:H	18	1.21
(1,270)	1:A:38:GLU:HB3	1:A:38:GLU:H	1	1.21
(1,270)	1:A:38:GLU:HB3	1:A:38:GLU:H	9	1.21
(1,270)	1:A:38:GLU:HB3	1:A:38:GLU:H	14	1.21
(1,270)	1:A:38:GLU:HB3	1:A:38:GLU:H	20	1.21
(1,112)	1:A:55:CYS:HB3	1:A:48:LYS:H	2	1.21
(1,112)	1:A:55:CYS:HB3	1:A:48:LYS:H	16	1.21
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG11	13	1.2
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG12	13	1.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG13	13	1.2
(1,270)	1:A:38:GLU:HB3	1:A:38:GLU:H	11	1.2
(1,4)	1:A:45:ARG:HB3	1:A:45:ARG:H	2	1.19
(1,320)	1:A:25:ARG:HB2	1:A:26:ASP:H	15	1.19
(1,320)	1:A:25:ARG:HB2	1:A:26:ASP:H	16	1.19
(1,270)	1:A:38:GLU:HB3	1:A:38:GLU:H	3	1.19
(1,270)	1:A:38:GLU:HB3	1:A:38:GLU:H	10	1.19
(1,270)	1:A:38:GLU:HB3	1:A:38:GLU:H	15	1.19
(1,270)	1:A:38:GLU:HB3	1:A:38:GLU:H	2	1.18
(1,270)	1:A:38:GLU:HB3	1:A:38:GLU:H	4	1.18
(1,174)	1:A:52:VAL:HG11	1:A:54:PHE:H	20	1.18
(1,174)	1:A:52:VAL:HG12	1:A:54:PHE:H	20	1.18
(1,174)	1:A:52:VAL:HG13	1:A:54:PHE:H	20	1.18
(1,440)	1:A:26:ASP:HB3	1:A:32:VAL:HG21	8	1.17
(1,440)	1:A:26:ASP:HB3	1:A:32:VAL:HG22	8	1.17
(1,440)	1:A:26:ASP:HB3	1:A:32:VAL:HG23	8	1.17
(1,390)	1:A:52:VAL:HG11	1:A:62:GLU:H	16	1.17
(1,390)	1:A:52:VAL:HG12	1:A:62:GLU:H	16	1.17
(1,390)	1:A:52:VAL:HG13	1:A:62:GLU:H	16	1.17
(1,320)	1:A:25:ARG:HB2	1:A:26:ASP:H	11	1.17
(1,278)	1:A:25:ARG:HB2	1:A:25:ARG:H	20	1.17
(1,270)	1:A:38:GLU:HB3	1:A:38:GLU:H	16	1.17
(1,51)	1:A:55:CYS:HB3	1:A:56:ASP:H	14	1.16
(1,469)	1:A:50:CYS:HB3	1:A:19:SER:HB3	19	1.16
(1,4)	1:A:45:ARG:HB3	1:A:45:ARG:H	11	1.16
(1,390)	1:A:52:VAL:HG11	1:A:62:GLU:H	9	1.16
(1,390)	1:A:52:VAL:HG12	1:A:62:GLU:H	9	1.16
(1,390)	1:A:52:VAL:HG13	1:A:62:GLU:H	9	1.16
(1,320)	1:A:25:ARG:HB2	1:A:26:ASP:H	5	1.16
(1,270)	1:A:38:GLU:HB3	1:A:38:GLU:H	7	1.16
(1,270)	1:A:38:GLU:HB3	1:A:38:GLU:H	17	1.16
(1,13)	1:A:45:ARG:HB2	1:A:46:LYS:H	2	1.16
(1,51)	1:A:55:CYS:HB3	1:A:56:ASP:H	13	1.15
(1,51)	1:A:55:CYS:HB3	1:A:56:ASP:H	15	1.15
(1,451)	1:A:8:LEU:HD11	1:A:6:GLN:HB2	8	1.15
(1,451)	1:A:8:LEU:HD12	1:A:6:GLN:HB2	8	1.15
(1,451)	1:A:8:LEU:HD13	1:A:6:GLN:HB2	8	1.15
(1,340)	1:A:55:CYS:HB2	1:A:56:ASP:H	3	1.15
(1,321)	1:A:25:ARG:HG3	1:A:26:ASP:H	6	1.15
(1,270)	1:A:38:GLU:HB3	1:A:38:GLU:H	6	1.15
(1,270)	1:A:38:GLU:HB3	1:A:38:GLU:H	13	1.15
(1,244)	1:A:43:PHE:HB3	1:A:43:PHE:H	15	1.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,174)	1:A:52:VAL:HG11	1:A:54:PHE:H	13	1.15
(1,174)	1:A:52:VAL:HG12	1:A:54:PHE:H	13	1.15
(1,174)	1:A:52:VAL:HG13	1:A:54:PHE:H	13	1.15
(1,174)	1:A:52:VAL:HG11	1:A:54:PHE:H	18	1.15
(1,174)	1:A:52:VAL:HG12	1:A:54:PHE:H	18	1.15
(1,174)	1:A:52:VAL:HG13	1:A:54:PHE:H	18	1.15
(1,14)	1:A:25:ARG:HD2	1:A:26:ASP:H	11	1.15
(1,13)	1:A:45:ARG:HB2	1:A:46:LYS:H	11	1.15
(1,13)	1:A:45:ARG:HB2	1:A:46:LYS:H	14	1.15
(1,56)	1:A:48:LYS:HB3	1:A:48:LYS:H	8	1.14
(1,451)	1:A:8:LEU:HD11	1:A:6:GLN:HB2	9	1.14
(1,451)	1:A:8:LEU:HD12	1:A:6:GLN:HB2	9	1.14
(1,451)	1:A:8:LEU:HD13	1:A:6:GLN:HB2	9	1.14
(1,244)	1:A:43:PHE:HB3	1:A:43:PHE:H	6	1.14
(1,244)	1:A:43:PHE:HB3	1:A:43:PHE:H	17	1.14
(1,244)	1:A:43:PHE:HB3	1:A:43:PHE:H	18	1.14
(1,174)	1:A:52:VAL:HG11	1:A:54:PHE:H	8	1.14
(1,174)	1:A:52:VAL:HG12	1:A:54:PHE:H	8	1.14
(1,174)	1:A:52:VAL:HG13	1:A:54:PHE:H	8	1.14
(1,174)	1:A:52:VAL:HG11	1:A:54:PHE:H	9	1.14
(1,174)	1:A:52:VAL:HG12	1:A:54:PHE:H	9	1.14
(1,174)	1:A:52:VAL:HG13	1:A:54:PHE:H	9	1.14
(1,174)	1:A:52:VAL:HG11	1:A:54:PHE:H	11	1.14
(1,174)	1:A:52:VAL:HG12	1:A:54:PHE:H	11	1.14
(1,174)	1:A:52:VAL:HG13	1:A:54:PHE:H	11	1.14
(1,13)	1:A:45:ARG:HB2	1:A:46:LYS:H	3	1.14
(1,13)	1:A:45:ARG:HB2	1:A:46:LYS:H	18	1.14
(1,51)	1:A:55:CYS:HB3	1:A:56:ASP:H	4	1.13
(1,437)	1:A:1:PHE:HA	1:A:5:GLU:HG3	4	1.13
(1,425)	1:A:34:TYR:HD1	1:A:36:ASP:HB3	9	1.13
(1,252)	1:A:41:ASN:HB3	1:A:41:ASN:H	16	1.13
(1,174)	1:A:52:VAL:HG11	1:A:54:PHE:H	6	1.13
(1,174)	1:A:52:VAL:HG12	1:A:54:PHE:H	6	1.13
(1,174)	1:A:52:VAL:HG13	1:A:54:PHE:H	6	1.13
(1,174)	1:A:52:VAL:HG11	1:A:54:PHE:H	7	1.13
(1,174)	1:A:52:VAL:HG12	1:A:54:PHE:H	7	1.13
(1,174)	1:A:52:VAL:HG13	1:A:54:PHE:H	7	1.13
(1,174)	1:A:52:VAL:HG11	1:A:54:PHE:H	14	1.13
(1,174)	1:A:52:VAL:HG12	1:A:54:PHE:H	14	1.13
(1,174)	1:A:52:VAL:HG13	1:A:54:PHE:H	14	1.13
(1,56)	1:A:48:LYS:HB3	1:A:48:LYS:H	6	1.12
(1,439)	1:A:8:LEU:HD11	1:A:6:GLN:HG3	9	1.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,439)	1:A:8:LEU:HD12	1:A:6:GLN:HG3	9	1.12
(1,439)	1:A:8:LEU:HD13	1:A:6:GLN:HG3	9	1.12
(1,376)	1:A:6:GLN:HG3	1:A:6:GLN:H	3	1.12
(1,252)	1:A:41:ASN:HB3	1:A:41:ASN:H	4	1.12
(1,244)	1:A:43:PHE:HB3	1:A:43:PHE:H	7	1.12
(1,244)	1:A:43:PHE:HB3	1:A:43:PHE:H	8	1.12
(1,174)	1:A:52:VAL:HG11	1:A:54:PHE:H	3	1.12
(1,174)	1:A:52:VAL:HG12	1:A:54:PHE:H	3	1.12
(1,174)	1:A:52:VAL:HG13	1:A:54:PHE:H	3	1.12
(1,174)	1:A:52:VAL:HG11	1:A:54:PHE:H	5	1.12
(1,174)	1:A:52:VAL:HG12	1:A:54:PHE:H	5	1.12
(1,174)	1:A:52:VAL:HG13	1:A:54:PHE:H	5	1.12
(1,171)	1:A:18:ASN:HB2	1:A:13:CYS:H	2	1.12
(1,56)	1:A:48:LYS:HB3	1:A:48:LYS:H	4	1.11
(1,439)	1:A:8:LEU:HD11	1:A:6:GLN:HG3	11	1.11
(1,439)	1:A:8:LEU:HD12	1:A:6:GLN:HG3	11	1.11
(1,439)	1:A:8:LEU:HD13	1:A:6:GLN:HG3	11	1.11
(1,174)	1:A:52:VAL:HG11	1:A:54:PHE:H	19	1.11
(1,174)	1:A:52:VAL:HG12	1:A:54:PHE:H	19	1.11
(1,174)	1:A:52:VAL:HG13	1:A:54:PHE:H	19	1.11
(1,246)	1:A:21:LYS:HB3	1:A:21:LYS:H	14	1.1
(1,174)	1:A:52:VAL:HG11	1:A:54:PHE:H	10	1.1
(1,174)	1:A:52:VAL:HG12	1:A:54:PHE:H	10	1.1
(1,174)	1:A:52:VAL:HG13	1:A:54:PHE:H	10	1.1
(1,174)	1:A:52:VAL:HG11	1:A:54:PHE:H	12	1.1
(1,174)	1:A:52:VAL:HG12	1:A:54:PHE:H	12	1.1
(1,174)	1:A:52:VAL:HG13	1:A:54:PHE:H	12	1.1
(1,13)	1:A:45:ARG:HB2	1:A:46:LYS:H	8	1.1
(1,56)	1:A:48:LYS:HB3	1:A:48:LYS:H	11	1.09
(1,51)	1:A:55:CYS:HB3	1:A:56:ASP:H	9	1.09
(1,372)	1:A:40:LYS:HB2	1:A:40:LYS:H	5	1.09
(1,56)	1:A:48:LYS:HB3	1:A:48:LYS:H	2	1.08
(1,390)	1:A:52:VAL:HG11	1:A:62:GLU:H	1	1.08
(1,390)	1:A:52:VAL:HG12	1:A:62:GLU:H	1	1.08
(1,390)	1:A:52:VAL:HG13	1:A:62:GLU:H	1	1.08
(1,376)	1:A:6:GLN:HG3	1:A:6:GLN:H	16	1.08
(1,321)	1:A:25:ARG:HG3	1:A:26:ASP:H	13	1.08
(1,246)	1:A:21:LYS:HB3	1:A:21:LYS:H	3	1.08
(1,425)	1:A:34:TYR:HD1	1:A:36:ASP:HB3	20	1.07
(1,376)	1:A:6:GLN:HG3	1:A:6:GLN:H	5	1.07
(1,376)	1:A:6:GLN:HG3	1:A:6:GLN:H	20	1.07
(1,372)	1:A:40:LYS:HB2	1:A:40:LYS:H	3	1.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,321)	1:A:25:ARG:HG3	1:A:26:ASP:H	14	1.07
(1,174)	1:A:52:VAL:HG11	1:A:54:PHE:H	4	1.07
(1,174)	1:A:52:VAL:HG12	1:A:54:PHE:H	4	1.07
(1,174)	1:A:52:VAL:HG13	1:A:54:PHE:H	4	1.07
(1,174)	1:A:52:VAL:HG11	1:A:54:PHE:H	15	1.07
(1,174)	1:A:52:VAL:HG12	1:A:54:PHE:H	15	1.07
(1,174)	1:A:52:VAL:HG13	1:A:54:PHE:H	15	1.07
(1,13)	1:A:45:ARG:HB2	1:A:46:LYS:H	1	1.07
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG11	6	1.06
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG12	6	1.06
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG13	6	1.06
(1,376)	1:A:6:GLN:HG3	1:A:6:GLN:H	12	1.06
(1,372)	1:A:40:LYS:HB2	1:A:40:LYS:H	2	1.06
(1,340)	1:A:55:CYS:HB2	1:A:56:ASP:H	8	1.06
(1,321)	1:A:25:ARG:HG3	1:A:26:ASP:H	1	1.06
(1,321)	1:A:25:ARG:HG3	1:A:26:ASP:H	7	1.06
(1,321)	1:A:25:ARG:HG3	1:A:26:ASP:H	8	1.06
(1,321)	1:A:25:ARG:HG3	1:A:26:ASP:H	9	1.06
(1,321)	1:A:25:ARG:HG3	1:A:26:ASP:H	17	1.06
(1,321)	1:A:25:ARG:HG3	1:A:26:ASP:H	19	1.06
(1,246)	1:A:21:LYS:HB3	1:A:21:LYS:H	8	1.06
(1,246)	1:A:21:LYS:HB3	1:A:21:LYS:H	12	1.06
(1,246)	1:A:21:LYS:HB3	1:A:21:LYS:H	15	1.06
(1,50)	1:A:25:ARG:HG2	1:A:11:CYS:H	7	1.05
(1,270)	1:A:38:GLU:HB3	1:A:38:GLU:H	8	1.05
(1,26)	1:A:6:GLN:HB2	1:A:6:GLN:H	1	1.05
(1,26)	1:A:6:GLN:HB2	1:A:6:GLN:H	9	1.05
(1,246)	1:A:21:LYS:HB3	1:A:21:LYS:H	9	1.05
(1,174)	1:A:52:VAL:HG11	1:A:54:PHE:H	1	1.05
(1,174)	1:A:52:VAL:HG12	1:A:54:PHE:H	1	1.05
(1,174)	1:A:52:VAL:HG13	1:A:54:PHE:H	1	1.05
(1,13)	1:A:45:ARG:HB2	1:A:46:LYS:H	10	1.05
(1,13)	1:A:45:ARG:HB2	1:A:46:LYS:H	13	1.05
(1,13)	1:A:45:ARG:HB2	1:A:46:LYS:H	17	1.05
(1,13)	1:A:45:ARG:HB2	1:A:46:LYS:H	19	1.05
(1,451)	1:A:8:LEU:HD11	1:A:6:GLN:HB2	1	1.04
(1,451)	1:A:8:LEU:HD12	1:A:6:GLN:HB2	1	1.04
(1,451)	1:A:8:LEU:HD13	1:A:6:GLN:HB2	1	1.04
(1,4)	1:A:45:ARG:HB3	1:A:45:ARG:H	14	1.04
(1,376)	1:A:6:GLN:HG3	1:A:6:GLN:H	4	1.04
(1,376)	1:A:6:GLN:HG3	1:A:6:GLN:H	10	1.04
(1,372)	1:A:40:LYS:HB2	1:A:40:LYS:H	13	1.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,355)	1:A:11:CYS:HB2	1:A:25:ARG:H	12	1.04
(1,246)	1:A:21:LYS:HB3	1:A:21:LYS:H	2	1.04
(1,376)	1:A:6:GLN:HG3	1:A:6:GLN:H	19	1.03
(1,321)	1:A:25:ARG:HG3	1:A:26:ASP:H	5	1.03
(1,26)	1:A:6:GLN:HB2	1:A:6:GLN:H	11	1.03
(1,246)	1:A:21:LYS:HB3	1:A:21:LYS:H	11	1.03
(1,246)	1:A:21:LYS:HB3	1:A:21:LYS:H	17	1.03
(1,24)	1:A:7:GLN:HG3	1:A:7:GLN:H	10	1.03
(1,174)	1:A:52:VAL:HG11	1:A:54:PHE:H	2	1.03
(1,174)	1:A:52:VAL:HG12	1:A:54:PHE:H	2	1.03
(1,174)	1:A:52:VAL:HG13	1:A:54:PHE:H	2	1.03
(1,140)	1:A:44:LEU:HB2	1:A:45:ARG:H	14	1.03
(1,13)	1:A:45:ARG:HB2	1:A:46:LYS:H	4	1.03
(1,390)	1:A:52:VAL:HG11	1:A:62:GLU:H	18	1.02
(1,390)	1:A:52:VAL:HG12	1:A:62:GLU:H	18	1.02
(1,390)	1:A:52:VAL:HG13	1:A:62:GLU:H	18	1.02
(1,376)	1:A:6:GLN:HG3	1:A:6:GLN:H	14	1.02
(1,321)	1:A:25:ARG:HG3	1:A:26:ASP:H	10	1.02
(1,321)	1:A:25:ARG:HG3	1:A:26:ASP:H	18	1.02
(1,112)	1:A:55:CYS:HB3	1:A:48:LYS:H	10	1.02
(1,376)	1:A:6:GLN:HG3	1:A:6:GLN:H	8	1.01
(1,376)	1:A:6:GLN:HG3	1:A:6:GLN:H	18	1.01
(1,246)	1:A:21:LYS:HB3	1:A:21:LYS:H	19	1.01
(1,13)	1:A:45:ARG:HB2	1:A:46:LYS:H	6	1.01
(1,13)	1:A:45:ARG:HB2	1:A:46:LYS:H	9	1.01
(1,469)	1:A:50:CYS:HB3	1:A:19:SER:HB3	7	1.0
(1,376)	1:A:6:GLN:HG3	1:A:6:GLN:H	13	1.0
(1,26)	1:A:6:GLN:HB2	1:A:6:GLN:H	6	1.0
(1,246)	1:A:21:LYS:HB3	1:A:21:LYS:H	1	1.0
(1,13)	1:A:45:ARG:HB2	1:A:46:LYS:H	5	1.0
(1,13)	1:A:45:ARG:HB2	1:A:46:LYS:H	20	1.0
(1,112)	1:A:55:CYS:HB3	1:A:48:LYS:H	5	1.0
(1,445)	1:A:26:ASP:HB2	1:A:32:VAL:HG21	12	0.99
(1,445)	1:A:26:ASP:HB2	1:A:32:VAL:HG22	12	0.99
(1,445)	1:A:26:ASP:HB2	1:A:32:VAL:HG23	12	0.99
(1,376)	1:A:6:GLN:HG3	1:A:6:GLN:H	2	0.99
(1,372)	1:A:40:LYS:HB2	1:A:40:LYS:H	19	0.99
(1,321)	1:A:25:ARG:HG3	1:A:26:ASP:H	11	0.99
(1,321)	1:A:25:ARG:HG3	1:A:26:ASP:H	15	0.99
(1,174)	1:A:52:VAL:HG11	1:A:54:PHE:H	16	0.99
(1,174)	1:A:52:VAL:HG12	1:A:54:PHE:H	16	0.99
(1,174)	1:A:52:VAL:HG13	1:A:54:PHE:H	16	0.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,112)	1:A:55:CYS:HB3	1:A:48:LYS:H	7	0.99
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG11	2	0.98
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG12	2	0.98
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG13	2	0.98
(1,437)	1:A:1:PHE:HA	1:A:5:GLU:HG3	9	0.98
(1,372)	1:A:40:LYS:HB2	1:A:40:LYS:H	9	0.98
(1,355)	1:A:11:CYS:HB2	1:A:25:ARG:H	9	0.98
(1,23)	1:A:5:GLU:HG3	1:A:5:GLU:H	14	0.98
(1,15)	1:A:54:PHE:HB2	1:A:55:CYS:H	2	0.98
(1,15)	1:A:54:PHE:HB2	1:A:55:CYS:H	8	0.98
(1,459)	1:A:25:ARG:HG2	1:A:11:CYS:HB3	4	0.97
(1,459)	1:A:25:ARG:HG2	1:A:11:CYS:HB2	4	0.97
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG11	11	0.97
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG12	11	0.97
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG13	11	0.97
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG11	17	0.97
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG12	17	0.97
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG13	17	0.97
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG11	19	0.97
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG12	19	0.97
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG13	19	0.97
(1,444)	1:A:34:TYR:HD1	1:A:6:GLN:HG2	3	0.97
(1,425)	1:A:34:TYR:HD1	1:A:36:ASP:HB3	18	0.97
(1,408)	1:A:34:TYR:HD1	1:A:42:LEU:HD11	11	0.97
(1,408)	1:A:34:TYR:HD1	1:A:42:LEU:HD12	11	0.97
(1,408)	1:A:34:TYR:HD1	1:A:42:LEU:HD13	11	0.97
(1,408)	1:A:34:TYR:HD2	1:A:42:LEU:HD11	11	0.97
(1,408)	1:A:34:TYR:HD2	1:A:42:LEU:HD12	11	0.97
(1,408)	1:A:34:TYR:HD2	1:A:42:LEU:HD13	11	0.97
(1,376)	1:A:6:GLN:HG3	1:A:6:GLN:H	7	0.97
(1,376)	1:A:6:GLN:HG3	1:A:6:GLN:H	15	0.97
(1,376)	1:A:6:GLN:HG3	1:A:6:GLN:H	17	0.97
(1,340)	1:A:55:CYS:HB2	1:A:56:ASP:H	1	0.97
(1,15)	1:A:54:PHE:HB2	1:A:55:CYS:H	3	0.97
(1,14)	1:A:25:ARG:HD2	1:A:26:ASP:H	12	0.97
(1,78)	1:A:40:LYS:HB2	1:A:41:ASN:H	17	0.96
(1,459)	1:A:25:ARG:HG2	1:A:11:CYS:HB3	3	0.96
(1,459)	1:A:25:ARG:HG2	1:A:11:CYS:HB2	3	0.96
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG11	4	0.96
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG12	4	0.96
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG13	4	0.96
(1,408)	1:A:34:TYR:HD1	1:A:42:LEU:HD11	2	0.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,408)	1:A:34:TYR:HD1	1:A:42:LEU:HD12	2	0.96
(1,408)	1:A:34:TYR:HD1	1:A:42:LEU:HD13	2	0.96
(1,408)	1:A:34:TYR:HD2	1:A:42:LEU:HD11	2	0.96
(1,408)	1:A:34:TYR:HD2	1:A:42:LEU:HD12	2	0.96
(1,408)	1:A:34:TYR:HD2	1:A:42:LEU:HD13	2	0.96
(1,408)	1:A:34:TYR:HD1	1:A:42:LEU:HD11	4	0.96
(1,408)	1:A:34:TYR:HD1	1:A:42:LEU:HD12	4	0.96
(1,408)	1:A:34:TYR:HD1	1:A:42:LEU:HD13	4	0.96
(1,408)	1:A:34:TYR:HD2	1:A:42:LEU:HD11	4	0.96
(1,408)	1:A:34:TYR:HD2	1:A:42:LEU:HD12	4	0.96
(1,408)	1:A:34:TYR:HD2	1:A:42:LEU:HD13	4	0.96
(1,372)	1:A:40:LYS:HB2	1:A:40:LYS:H	7	0.96
(1,321)	1:A:25:ARG:HG3	1:A:26:ASP:H	16	0.96
(1,31)	1:A:2:CYS:HB3	1:A:2:CYS:H	3	0.96
(1,246)	1:A:21:LYS:HB3	1:A:21:LYS:H	7	0.96
(1,246)	1:A:21:LYS:HB3	1:A:21:LYS:H	20	0.96
(1,19)	1:A:25:ARG:HB3	1:A:26:ASP:H	6	0.96
(1,15)	1:A:54:PHE:HB2	1:A:55:CYS:H	5	0.96
(1,13)	1:A:45:ARG:HB2	1:A:46:LYS:H	7	0.96
(1,50)	1:A:25:ARG:HG2	1:A:11:CYS:H	19	0.95
(1,440)	1:A:26:ASP:HB3	1:A:32:VAL:HG21	12	0.95
(1,440)	1:A:26:ASP:HB3	1:A:32:VAL:HG22	12	0.95
(1,440)	1:A:26:ASP:HB3	1:A:32:VAL:HG23	12	0.95
(1,31)	1:A:2:CYS:HB3	1:A:2:CYS:H	20	0.95
(1,246)	1:A:21:LYS:HB3	1:A:21:LYS:H	13	0.95
(1,246)	1:A:21:LYS:HB3	1:A:21:LYS:H	18	0.95
(1,15)	1:A:54:PHE:HB2	1:A:55:CYS:H	6	0.95
(1,13)	1:A:45:ARG:HB2	1:A:46:LYS:H	12	0.95
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG11	14	0.94
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG12	14	0.94
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG13	14	0.94
(1,446)	1:A:24:CYS:HB2	1:A:8:LEU:HD11	19	0.94
(1,446)	1:A:24:CYS:HB2	1:A:8:LEU:HD12	19	0.94
(1,446)	1:A:24:CYS:HB2	1:A:8:LEU:HD13	19	0.94
(1,446)	1:A:24:CYS:HB3	1:A:8:LEU:HD11	19	0.94
(1,446)	1:A:24:CYS:HB3	1:A:8:LEU:HD12	19	0.94
(1,446)	1:A:24:CYS:HB3	1:A:8:LEU:HD13	19	0.94
(1,437)	1:A:1:PHE:HA	1:A:5:GLU:HG3	10	0.94
(1,408)	1:A:34:TYR:HD1	1:A:42:LEU:HD11	1	0.94
(1,408)	1:A:34:TYR:HD1	1:A:42:LEU:HD12	1	0.94
(1,408)	1:A:34:TYR:HD1	1:A:42:LEU:HD13	1	0.94
(1,408)	1:A:34:TYR:HD2	1:A:42:LEU:HD11	1	0.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,408)	1:A:34:TYR:HD2	1:A:42:LEU:HD12	1	0.94
(1,408)	1:A:34:TYR:HD2	1:A:42:LEU:HD13	1	0.94
(1,355)	1:A:11:CYS:HB2	1:A:25:ARG:H	8	0.94
(1,3)	1:A:21:LYS:HD3	1:A:21:LYS:H	19	0.94
(1,19)	1:A:25:ARG:HB3	1:A:26:ASP:H	11	0.94
(1,15)	1:A:54:PHE:HB2	1:A:55:CYS:H	4	0.94
(1,15)	1:A:54:PHE:HB2	1:A:55:CYS:H	10	0.94
(1,15)	1:A:54:PHE:HB2	1:A:55:CYS:H	14	0.94
(1,15)	1:A:54:PHE:HB2	1:A:55:CYS:H	15	0.94
(1,140)	1:A:44:LEU:HB2	1:A:45:ARG:H	15	0.94
(1,13)	1:A:45:ARG:HB2	1:A:46:LYS:H	16	0.94
(1,78)	1:A:40:LYS:HB2	1:A:41:ASN:H	11	0.93
(1,53)	1:A:62:GLU:HB3	1:A:62:GLU:H	7	0.93
(1,52)	1:A:54:PHE:HB3	1:A:54:PHE:H	1	0.93
(1,52)	1:A:54:PHE:HB3	1:A:54:PHE:H	2	0.93
(1,52)	1:A:54:PHE:HB3	1:A:54:PHE:H	5	0.93
(1,52)	1:A:54:PHE:HB3	1:A:54:PHE:H	10	0.93
(1,52)	1:A:54:PHE:HB3	1:A:54:PHE:H	12	0.93
(1,52)	1:A:54:PHE:HB3	1:A:54:PHE:H	13	0.93
(1,52)	1:A:54:PHE:HB3	1:A:54:PHE:H	17	0.93
(1,52)	1:A:54:PHE:HB3	1:A:54:PHE:H	18	0.93
(1,50)	1:A:25:ARG:HG2	1:A:11:CYS:H	6	0.93
(1,471)	1:A:8:LEU:HD11	1:A:6:GLN:HB3	8	0.93
(1,471)	1:A:8:LEU:HD12	1:A:6:GLN:HB3	8	0.93
(1,471)	1:A:8:LEU:HD13	1:A:6:GLN:HB3	8	0.93
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG11	9	0.93
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG12	9	0.93
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG13	9	0.93
(1,52)	1:A:54:PHE:HB3	1:A:54:PHE:H	19	0.92
(1,50)	1:A:25:ARG:HG2	1:A:11:CYS:H	10	0.92
(1,46)	1:A:40:LYS:HG3	1:A:36:ASP:H	8	0.92
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG11	3	0.92
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG12	3	0.92
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG13	3	0.92
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG11	20	0.92
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG12	20	0.92
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG13	20	0.92
(1,375)	1:A:6:GLN:HB3	1:A:6:GLN:H	6	0.92
(1,355)	1:A:11:CYS:HB2	1:A:25:ARG:H	6	0.92
(1,340)	1:A:55:CYS:HB2	1:A:56:ASP:H	11	0.92
(1,340)	1:A:55:CYS:HB2	1:A:56:ASP:H	17	0.92
(1,254)	1:A:28:SER:HB3	1:A:28:SER:H	5	0.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,20)	1:A:10:SER:HB2	1:A:11:CYS:H	9	0.92
(1,15)	1:A:54:PHE:HB2	1:A:55:CYS:H	9	0.92
(1,15)	1:A:54:PHE:HB2	1:A:55:CYS:H	12	0.92
(1,140)	1:A:44:LEU:HB2	1:A:45:ARG:H	1	0.92
(1,50)	1:A:25:ARG:HG2	1:A:11:CYS:H	14	0.91
(1,459)	1:A:25:ARG:HG2	1:A:11:CYS:HB3	2	0.91
(1,459)	1:A:25:ARG:HG2	1:A:11:CYS:HB2	2	0.91
(1,436)	1:A:33:PRO:HD3	1:A:32:VAL:HG21	9	0.91
(1,436)	1:A:33:PRO:HD3	1:A:32:VAL:HG22	9	0.91
(1,436)	1:A:33:PRO:HD3	1:A:32:VAL:HG23	9	0.91
(1,254)	1:A:28:SER:HB3	1:A:28:SER:H	13	0.91
(1,19)	1:A:25:ARG:HB3	1:A:26:ASP:H	5	0.91
(1,174)	1:A:52:VAL:HG11	1:A:54:PHE:H	17	0.91
(1,174)	1:A:52:VAL:HG12	1:A:54:PHE:H	17	0.91
(1,174)	1:A:52:VAL:HG13	1:A:54:PHE:H	17	0.91
(1,140)	1:A:44:LEU:HB2	1:A:45:ARG:H	10	0.91
(1,52)	1:A:54:PHE:HB3	1:A:54:PHE:H	6	0.9
(1,52)	1:A:54:PHE:HB3	1:A:54:PHE:H	8	0.9
(1,52)	1:A:54:PHE:HB3	1:A:54:PHE:H	15	0.9
(1,52)	1:A:54:PHE:HB3	1:A:54:PHE:H	16	0.9
(1,459)	1:A:25:ARG:HG2	1:A:11:CYS:HB3	12	0.9
(1,459)	1:A:25:ARG:HG2	1:A:11:CYS:HB2	12	0.9
(1,436)	1:A:33:PRO:HD3	1:A:32:VAL:HG21	19	0.9
(1,436)	1:A:33:PRO:HD3	1:A:32:VAL:HG22	19	0.9
(1,436)	1:A:33:PRO:HD3	1:A:32:VAL:HG23	19	0.9
(1,340)	1:A:55:CYS:HB2	1:A:56:ASP:H	6	0.9
(1,320)	1:A:25:ARG:HB2	1:A:26:ASP:H	2	0.9
(1,254)	1:A:28:SER:HB3	1:A:28:SER:H	16	0.9
(1,15)	1:A:54:PHE:HB2	1:A:55:CYS:H	1	0.9
(1,111)	1:A:41:ASN:HB2	1:A:42:LEU:H	4	0.9
(1,78)	1:A:40:LYS:HB2	1:A:41:ASN:H	12	0.89
(1,52)	1:A:54:PHE:HB3	1:A:54:PHE:H	3	0.89
(1,52)	1:A:54:PHE:HB3	1:A:54:PHE:H	4	0.89
(1,50)	1:A:25:ARG:HG2	1:A:11:CYS:H	13	0.89
(1,451)	1:A:8:LEU:HD11	1:A:6:GLN:HB2	11	0.89
(1,451)	1:A:8:LEU:HD12	1:A:6:GLN:HB2	11	0.89
(1,451)	1:A:8:LEU:HD13	1:A:6:GLN:HB2	11	0.89
(1,436)	1:A:33:PRO:HD3	1:A:32:VAL:HG21	17	0.89
(1,436)	1:A:33:PRO:HD3	1:A:32:VAL:HG22	17	0.89
(1,436)	1:A:33:PRO:HD3	1:A:32:VAL:HG23	17	0.89
(1,373)	1:A:38:GLU:HB2	1:A:38:GLU:H	12	0.89
(1,37)	1:A:18:ASN:HB3	1:A:18:ASN:H	9	0.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,37)	1:A:18:ASN:HB3	1:A:18:ASN:H	15	0.89
(1,340)	1:A:55:CYS:HB2	1:A:56:ASP:H	4	0.89
(1,53)	1:A:62:GLU:HB3	1:A:62:GLU:H	11	0.88
(1,50)	1:A:25:ARG:HG2	1:A:11:CYS:H	17	0.88
(1,445)	1:A:26:ASP:HB2	1:A:32:VAL:HG21	11	0.88
(1,445)	1:A:26:ASP:HB2	1:A:32:VAL:HG22	11	0.88
(1,445)	1:A:26:ASP:HB2	1:A:32:VAL:HG23	11	0.88
(1,444)	1:A:34:TYR:HD1	1:A:6:GLN:HG2	4	0.88
(1,424)	1:A:8:LEU:HD11	1:A:6:GLN:HG2	19	0.88
(1,424)	1:A:8:LEU:HD12	1:A:6:GLN:HG2	19	0.88
(1,424)	1:A:8:LEU:HD13	1:A:6:GLN:HG2	19	0.88
(1,390)	1:A:52:VAL:HG11	1:A:62:GLU:H	17	0.88
(1,390)	1:A:52:VAL:HG12	1:A:62:GLU:H	17	0.88
(1,390)	1:A:52:VAL:HG13	1:A:62:GLU:H	17	0.88
(1,340)	1:A:55:CYS:HB2	1:A:56:ASP:H	15	0.88
(1,320)	1:A:25:ARG:HB2	1:A:26:ASP:H	4	0.88
(1,320)	1:A:25:ARG:HB2	1:A:26:ASP:H	12	0.88
(1,15)	1:A:54:PHE:HB2	1:A:55:CYS:H	16	0.88
(1,15)	1:A:54:PHE:HB2	1:A:55:CYS:H	19	0.88
(1,78)	1:A:40:LYS:HB2	1:A:41:ASN:H	18	0.87
(1,52)	1:A:54:PHE:HB3	1:A:54:PHE:H	14	0.87
(1,50)	1:A:25:ARG:HG2	1:A:11:CYS:H	1	0.87
(1,50)	1:A:25:ARG:HG2	1:A:11:CYS:H	9	0.87
(1,437)	1:A:1:PHE:HA	1:A:5:GLU:HG3	18	0.87
(1,436)	1:A:33:PRO:HD3	1:A:32:VAL:HG21	7	0.87
(1,436)	1:A:33:PRO:HD3	1:A:32:VAL:HG22	7	0.87
(1,436)	1:A:33:PRO:HD3	1:A:32:VAL:HG23	7	0.87
(1,373)	1:A:38:GLU:HB2	1:A:38:GLU:H	18	0.87
(1,37)	1:A:18:ASN:HB3	1:A:18:ASN:H	11	0.87
(1,355)	1:A:11:CYS:HB2	1:A:25:ARG:H	1	0.87
(1,355)	1:A:11:CYS:HB2	1:A:25:ARG:H	14	0.87
(1,246)	1:A:21:LYS:HB3	1:A:21:LYS:H	4	0.87
(1,15)	1:A:54:PHE:HB2	1:A:55:CYS:H	18	0.87
(1,111)	1:A:41:ASN:HB2	1:A:42:LEU:H	16	0.87
(1,50)	1:A:25:ARG:HG2	1:A:11:CYS:H	16	0.86
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG11	8	0.86
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG12	8	0.86
(1,454)	1:A:61:CYS:HB2	1:A:52:VAL:HG13	8	0.86
(1,436)	1:A:33:PRO:HD3	1:A:32:VAL:HG21	14	0.86
(1,436)	1:A:33:PRO:HD3	1:A:32:VAL:HG22	14	0.86
(1,436)	1:A:33:PRO:HD3	1:A:32:VAL:HG23	14	0.86
(1,436)	1:A:33:PRO:HD3	1:A:32:VAL:HG21	20	0.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,436)	1:A:33:PRO:HD3	1:A:32:VAL:HG22	20	0.86
(1,436)	1:A:33:PRO:HD3	1:A:32:VAL:HG23	20	0.86
(1,379)	1:A:57:MET:HB3	1:A:57:MET:H	15	0.86
(1,340)	1:A:55:CYS:HB2	1:A:56:ASP:H	7	0.86
(1,320)	1:A:25:ARG:HB2	1:A:26:ASP:H	3	0.86
(1,31)	1:A:2:CYS:HB3	1:A:2:CYS:H	13	0.86
(1,168)	1:A:25:ARG:HG3	1:A:29:GLY:H	6	0.86
(1,140)	1:A:44:LEU:HB2	1:A:45:ARG:H	17	0.86
(1,78)	1:A:40:LYS:HB2	1:A:41:ASN:H	10	0.85
(1,53)	1:A:62:GLU:HB3	1:A:62:GLU:H	1	0.85
(1,437)	1:A:1:PHE:HA	1:A:5:GLU:HG3	16	0.85
(1,52)	1:A:54:PHE:HB3	1:A:54:PHE:H	9	0.84
(1,469)	1:A:50:CYS:HB3	1:A:19:SER:HB3	16	0.84
(1,436)	1:A:33:PRO:HD3	1:A:32:VAL:HG21	10	0.84
(1,436)	1:A:33:PRO:HD3	1:A:32:VAL:HG22	10	0.84
(1,436)	1:A:33:PRO:HD3	1:A:32:VAL:HG23	10	0.84
(1,390)	1:A:52:VAL:HG11	1:A:62:GLU:H	11	0.84
(1,390)	1:A:52:VAL:HG12	1:A:62:GLU:H	11	0.84
(1,390)	1:A:52:VAL:HG13	1:A:62:GLU:H	11	0.84
(1,379)	1:A:57:MET:HB3	1:A:57:MET:H	6	0.84
(1,355)	1:A:11:CYS:HB2	1:A:25:ARG:H	16	0.84
(1,27)	1:A:39:GLN:HB3	1:A:39:GLN:H	5	0.84
(1,27)	1:A:39:GLN:HB3	1:A:39:GLN:H	11	0.84
(1,27)	1:A:39:GLN:HB3	1:A:39:GLN:H	18	0.84
(1,27)	1:A:39:GLN:HB3	1:A:39:GLN:H	19	0.84
(1,162)	1:A:52:VAL:HG11	1:A:61:CYS:H	19	0.84
(1,162)	1:A:52:VAL:HG12	1:A:61:CYS:H	19	0.84
(1,162)	1:A:52:VAL:HG13	1:A:61:CYS:H	19	0.84
(1,140)	1:A:44:LEU:HB2	1:A:45:ARG:H	4	0.84
(1,91)	1:A:3:GLU:HB3	1:A:4:ARG:H	14	0.83
(1,78)	1:A:40:LYS:HB2	1:A:41:ASN:H	16	0.83
(1,50)	1:A:25:ARG:HG2	1:A:11:CYS:H	11	0.83
(1,436)	1:A:33:PRO:HD3	1:A:32:VAL:HG21	18	0.83
(1,436)	1:A:33:PRO:HD3	1:A:32:VAL:HG22	18	0.83
(1,436)	1:A:33:PRO:HD3	1:A:32:VAL:HG23	18	0.83
(1,425)	1:A:34:TYR:HD1	1:A:36:ASP:HB3	19	0.83
(1,4)	1:A:45:ARG:HB3	1:A:45:ARG:H	4	0.83
(1,379)	1:A:57:MET:HB3	1:A:57:MET:H	10	0.83
(1,379)	1:A:57:MET:HB3	1:A:57:MET:H	16	0.83
(1,375)	1:A:6:GLN:HB3	1:A:6:GLN:H	3	0.83
(1,375)	1:A:6:GLN:HB3	1:A:6:GLN:H	20	0.83
(1,340)	1:A:55:CYS:HB2	1:A:56:ASP:H	20	0.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,254)	1:A:28:SER:HB3	1:A:28:SER:H	17	0.83
(1,91)	1:A:3:GLU:HB3	1:A:4:ARG:H	4	0.82
(1,78)	1:A:40:LYS:HB2	1:A:41:ASN:H	4	0.82
(1,53)	1:A:62:GLU:HB3	1:A:62:GLU:H	16	0.82
(1,50)	1:A:25:ARG:HG2	1:A:11:CYS:H	8	0.82
(1,50)	1:A:25:ARG:HG2	1:A:11:CYS:H	18	0.82
(1,437)	1:A:1:PHE:HA	1:A:5:GLU:HG3	1	0.82
(1,436)	1:A:33:PRO:HD3	1:A:32:VAL:HG21	5	0.82
(1,436)	1:A:33:PRO:HD3	1:A:32:VAL:HG22	5	0.82
(1,436)	1:A:33:PRO:HD3	1:A:32:VAL:HG23	5	0.82
(1,436)	1:A:33:PRO:HD3	1:A:32:VAL:HG21	15	0.82
(1,436)	1:A:33:PRO:HD3	1:A:32:VAL:HG22	15	0.82
(1,436)	1:A:33:PRO:HD3	1:A:32:VAL:HG23	15	0.82
(1,379)	1:A:57:MET:HB3	1:A:57:MET:H	11	0.82
(1,379)	1:A:57:MET:HB3	1:A:57:MET:H	20	0.82
(1,37)	1:A:18:ASN:HB3	1:A:18:ASN:H	5	0.82
(1,37)	1:A:18:ASN:HB3	1:A:18:ASN:H	14	0.82
(1,340)	1:A:55:CYS:HB2	1:A:56:ASP:H	14	0.82
(1,27)	1:A:39:GLN:HB3	1:A:39:GLN:H	12	0.82
(1,23)	1:A:5:GLU:HG3	1:A:5:GLU:H	19	0.82
(1,19)	1:A:25:ARG:HB3	1:A:26:ASP:H	17	0.82
(1,168)	1:A:25:ARG:HG3	1:A:29:GLY:H	17	0.82
(1,15)	1:A:54:PHE:HB2	1:A:55:CYS:H	13	0.82
(1,50)	1:A:25:ARG:HG2	1:A:11:CYS:H	15	0.81
(1,463)	1:A:52:VAL:HG21	1:A:51:THR:HB	7	0.81
(1,463)	1:A:52:VAL:HG22	1:A:51:THR:HB	7	0.81
(1,463)	1:A:52:VAL:HG23	1:A:51:THR:HB	7	0.81
(1,436)	1:A:33:PRO:HD3	1:A:32:VAL:HG21	4	0.81
(1,436)	1:A:33:PRO:HD3	1:A:32:VAL:HG22	4	0.81
(1,436)	1:A:33:PRO:HD3	1:A:32:VAL:HG23	4	0.81
(1,390)	1:A:52:VAL:HG11	1:A:62:GLU:H	15	0.81
(1,390)	1:A:52:VAL:HG12	1:A:62:GLU:H	15	0.81
(1,390)	1:A:52:VAL:HG13	1:A:62:GLU:H	15	0.81
(1,379)	1:A:57:MET:HB3	1:A:57:MET:H	2	0.81
(1,375)	1:A:6:GLN:HB3	1:A:6:GLN:H	5	0.81
(1,375)	1:A:6:GLN:HB3	1:A:6:GLN:H	12	0.81
(1,375)	1:A:6:GLN:HB3	1:A:6:GLN:H	13	0.81
(1,375)	1:A:6:GLN:HB3	1:A:6:GLN:H	16	0.81
(1,375)	1:A:6:GLN:HB3	1:A:6:GLN:H	19	0.81
(1,37)	1:A:18:ASN:HB3	1:A:18:ASN:H	3	0.81
(1,37)	1:A:18:ASN:HB3	1:A:18:ASN:H	8	0.81
(1,35)	1:A:27:LEU:HB3	1:A:27:LEU:H	18	0.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,340)	1:A:55:CYS:HB2	1:A:56:ASP:H	5	0.81
(1,27)	1:A:39:GLN:HB3	1:A:39:GLN:H	9	0.81
(1,27)	1:A:39:GLN:HB3	1:A:39:GLN:H	20	0.81
(1,254)	1:A:28:SER:HB3	1:A:28:SER:H	19	0.81
(1,446)	1:A:24:CYS:HB2	1:A:8:LEU:HD11	6	0.8
(1,446)	1:A:24:CYS:HB2	1:A:8:LEU:HD12	6	0.8
(1,446)	1:A:24:CYS:HB2	1:A:8:LEU:HD13	6	0.8
(1,446)	1:A:24:CYS:HB3	1:A:8:LEU:HD11	6	0.8
(1,446)	1:A:24:CYS:HB3	1:A:8:LEU:HD12	6	0.8
(1,446)	1:A:24:CYS:HB3	1:A:8:LEU:HD13	6	0.8
(1,43)	1:A:35:VAL:HG11	1:A:35:VAL:H	20	0.8
(1,43)	1:A:35:VAL:HG12	1:A:35:VAL:H	20	0.8
(1,43)	1:A:35:VAL:HG13	1:A:35:VAL:H	20	0.8
(1,4)	1:A:45:ARG:HB3	1:A:45:ARG:H	13	0.8
(1,379)	1:A:57:MET:HB3	1:A:57:MET:H	13	0.8
(1,375)	1:A:6:GLN:HB3	1:A:6:GLN:H	1	0.8
(1,373)	1:A:38:GLU:HB2	1:A:38:GLU:H	19	0.8
(1,37)	1:A:18:ASN:HB3	1:A:18:ASN:H	7	0.8
(1,37)	1:A:18:ASN:HB3	1:A:18:ASN:H	19	0.8
(1,355)	1:A:11:CYS:HB2	1:A:25:ARG:H	7	0.8
(1,355)	1:A:11:CYS:HB2	1:A:25:ARG:H	11	0.8
(1,340)	1:A:55:CYS:HB2	1:A:56:ASP:H	13	0.8
(1,27)	1:A:39:GLN:HB3	1:A:39:GLN:H	1	0.8
(1,27)	1:A:39:GLN:HB3	1:A:39:GLN:H	17	0.8
(1,23)	1:A:5:GLU:HG3	1:A:5:GLU:H	17	0.8
(1,193)	1:A:17:ASP:HB2	1:A:18:ASN:H	7	0.8
(1,14)	1:A:25:ARG:HD2	1:A:26:ASP:H	6	0.8
(1,390)	1:A:52:VAL:HG11	1:A:62:GLU:H	4	0.79
(1,390)	1:A:52:VAL:HG12	1:A:62:GLU:H	4	0.79
(1,390)	1:A:52:VAL:HG13	1:A:62:GLU:H	4	0.79
(1,379)	1:A:57:MET:HB3	1:A:57:MET:H	1	0.79
(1,375)	1:A:6:GLN:HB3	1:A:6:GLN:H	14	0.79
(1,373)	1:A:38:GLU:HB2	1:A:38:GLU:H	5	0.79
(1,37)	1:A:18:ASN:HB3	1:A:18:ASN:H	1	0.79
(1,37)	1:A:18:ASN:HB3	1:A:18:ASN:H	10	0.79
(1,27)	1:A:39:GLN:HB3	1:A:39:GLN:H	4	0.79
(1,27)	1:A:39:GLN:HB3	1:A:39:GLN:H	6	0.79
(1,27)	1:A:39:GLN:HB3	1:A:39:GLN:H	7	0.79
(1,27)	1:A:39:GLN:HB3	1:A:39:GLN:H	8	0.79
(1,27)	1:A:39:GLN:HB3	1:A:39:GLN:H	15	0.79
(1,25)	1:A:38:GLU:HG3	1:A:38:GLU:H	12	0.79
(1,210)	1:A:38:GLU:HB3	1:A:39:GLN:H	20	0.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,19)	1:A:25:ARG:HB3	1:A:26:ASP:H	18	0.79
(1,168)	1:A:25:ARG:HG3	1:A:29:GLY:H	14	0.79
(1,469)	1:A:50:CYS:HB3	1:A:19:SER:HB3	12	0.78
(1,463)	1:A:52:VAL:HG21	1:A:51:THR:HB	13	0.78
(1,463)	1:A:52:VAL:HG22	1:A:51:THR:HB	13	0.78
(1,463)	1:A:52:VAL:HG23	1:A:51:THR:HB	13	0.78
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG11	13	0.78
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG12	13	0.78
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG13	13	0.78
(1,43)	1:A:35:VAL:HG11	1:A:35:VAL:H	5	0.78
(1,43)	1:A:35:VAL:HG12	1:A:35:VAL:H	5	0.78
(1,43)	1:A:35:VAL:HG13	1:A:35:VAL:H	5	0.78
(1,375)	1:A:6:GLN:HB3	1:A:6:GLN:H	10	0.78
(1,375)	1:A:6:GLN:HB3	1:A:6:GLN:H	17	0.78
(1,372)	1:A:40:LYS:HB2	1:A:40:LYS:H	6	0.78
(1,37)	1:A:18:ASN:HB3	1:A:18:ASN:H	13	0.78
(1,37)	1:A:18:ASN:HB3	1:A:18:ASN:H	20	0.78
(1,275)	1:A:36:ASP:HB2	1:A:36:ASP:H	12	0.78
(1,27)	1:A:39:GLN:HB3	1:A:39:GLN:H	3	0.78
(1,27)	1:A:39:GLN:HB3	1:A:39:GLN:H	14	0.78
(1,193)	1:A:17:ASP:HB2	1:A:18:ASN:H	1	0.78
(1,193)	1:A:17:ASP:HB2	1:A:18:ASN:H	15	0.78
(1,168)	1:A:25:ARG:HG3	1:A:29:GLY:H	19	0.78
(1,53)	1:A:62:GLU:HB3	1:A:62:GLU:H	4	0.77
(1,53)	1:A:62:GLU:HB3	1:A:62:GLU:H	13	0.77
(1,434)	1:A:22:VAL:HB	1:A:42:LEU:HD11	1	0.77
(1,434)	1:A:22:VAL:HB	1:A:42:LEU:HD12	1	0.77
(1,434)	1:A:22:VAL:HB	1:A:42:LEU:HD13	1	0.77
(1,43)	1:A:35:VAL:HG11	1:A:35:VAL:H	2	0.77
(1,43)	1:A:35:VAL:HG12	1:A:35:VAL:H	2	0.77
(1,43)	1:A:35:VAL:HG13	1:A:35:VAL:H	2	0.77
(1,43)	1:A:35:VAL:HG11	1:A:35:VAL:H	9	0.77
(1,43)	1:A:35:VAL:HG12	1:A:35:VAL:H	9	0.77
(1,43)	1:A:35:VAL:HG13	1:A:35:VAL:H	9	0.77
(1,390)	1:A:52:VAL:HG11	1:A:62:GLU:H	10	0.77
(1,390)	1:A:52:VAL:HG12	1:A:62:GLU:H	10	0.77
(1,390)	1:A:52:VAL:HG13	1:A:62:GLU:H	10	0.77
(1,379)	1:A:57:MET:HB3	1:A:57:MET:H	19	0.77
(1,375)	1:A:6:GLN:HB3	1:A:6:GLN:H	18	0.77
(1,37)	1:A:18:ASN:HB3	1:A:18:ASN:H	6	0.77
(1,37)	1:A:18:ASN:HB3	1:A:18:ASN:H	17	0.77
(1,37)	1:A:18:ASN:HB3	1:A:18:ASN:H	18	0.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,31)	1:A:2:CYS:HB3	1:A:2:CYS:H	12	0.77
(1,28)	1:A:42:LEU:HB3	1:A:42:LEU:H	20	0.77
(1,27)	1:A:39:GLN:HB3	1:A:39:GLN:H	10	0.77
(1,27)	1:A:39:GLN:HB3	1:A:39:GLN:H	16	0.77
(1,210)	1:A:38:GLU:HB3	1:A:39:GLN:H	1	0.77
(1,19)	1:A:25:ARG:HB3	1:A:26:ASP:H	1	0.77
(1,19)	1:A:25:ARG:HB3	1:A:26:ASP:H	8	0.77
(1,19)	1:A:25:ARG:HB3	1:A:26:ASP:H	10	0.77
(1,19)	1:A:25:ARG:HB3	1:A:26:ASP:H	13	0.77
(1,19)	1:A:25:ARG:HB3	1:A:26:ASP:H	14	0.77
(1,168)	1:A:25:ARG:HG3	1:A:29:GLY:H	18	0.77
(1,14)	1:A:25:ARG:HD2	1:A:26:ASP:H	20	0.77
(1,43)	1:A:35:VAL:HG11	1:A:35:VAL:H	4	0.76
(1,43)	1:A:35:VAL:HG12	1:A:35:VAL:H	4	0.76
(1,43)	1:A:35:VAL:HG13	1:A:35:VAL:H	4	0.76
(1,43)	1:A:35:VAL:HG11	1:A:35:VAL:H	6	0.76
(1,43)	1:A:35:VAL:HG12	1:A:35:VAL:H	6	0.76
(1,43)	1:A:35:VAL:HG13	1:A:35:VAL:H	6	0.76
(1,43)	1:A:35:VAL:HG11	1:A:35:VAL:H	11	0.76
(1,43)	1:A:35:VAL:HG12	1:A:35:VAL:H	11	0.76
(1,43)	1:A:35:VAL:HG13	1:A:35:VAL:H	11	0.76
(1,402)	1:A:2:CYS:HB2	1:A:3:GLU:H	6	0.76
(1,375)	1:A:6:GLN:HB3	1:A:6:GLN:H	7	0.76
(1,375)	1:A:6:GLN:HB3	1:A:6:GLN:H	15	0.76
(1,371)	1:A:21:LYS:HB2	1:A:21:LYS:H	6	0.76
(1,371)	1:A:21:LYS:HB2	1:A:21:LYS:H	16	0.76
(1,37)	1:A:18:ASN:HB3	1:A:18:ASN:H	12	0.76
(1,37)	1:A:18:ASN:HB3	1:A:18:ASN:H	16	0.76
(1,35)	1:A:27:LEU:HB3	1:A:27:LEU:H	10	0.76
(1,340)	1:A:55:CYS:HB2	1:A:56:ASP:H	16	0.76
(1,28)	1:A:42:LEU:HB3	1:A:42:LEU:H	5	0.76
(1,28)	1:A:42:LEU:HB3	1:A:42:LEU:H	7	0.76
(1,28)	1:A:42:LEU:HB3	1:A:42:LEU:H	10	0.76
(1,27)	1:A:39:GLN:HB3	1:A:39:GLN:H	2	0.76
(1,210)	1:A:38:GLU:HB3	1:A:39:GLN:H	4	0.76
(1,193)	1:A:17:ASP:HB2	1:A:18:ASN:H	2	0.76
(1,193)	1:A:17:ASP:HB2	1:A:18:ASN:H	4	0.76
(1,19)	1:A:25:ARG:HB3	1:A:26:ASP:H	9	0.76
(1,140)	1:A:44:LEU:HB2	1:A:45:ARG:H	19	0.76
(1,140)	1:A:44:LEU:HB2	1:A:45:ARG:H	20	0.76
(1,111)	1:A:41:ASN:HB2	1:A:42:LEU:H	20	0.76
(1,97)	1:A:14:ASN:HB3	1:A:15:GLU:H	3	0.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,97)	1:A:14:ASN:HB3	1:A:15:GLU:H	8	0.75
(1,91)	1:A:3:GLU:HB3	1:A:4:ARG:H	15	0.75
(1,78)	1:A:40:LYS:HB2	1:A:41:ASN:H	15	0.75
(1,463)	1:A:52:VAL:HG21	1:A:51:THR:HB	19	0.75
(1,463)	1:A:52:VAL:HG22	1:A:51:THR:HB	19	0.75
(1,463)	1:A:52:VAL:HG23	1:A:51:THR:HB	19	0.75
(1,43)	1:A:35:VAL:HG11	1:A:35:VAL:H	1	0.75
(1,43)	1:A:35:VAL:HG12	1:A:35:VAL:H	1	0.75
(1,43)	1:A:35:VAL:HG13	1:A:35:VAL:H	1	0.75
(1,43)	1:A:35:VAL:HG11	1:A:35:VAL:H	7	0.75
(1,43)	1:A:35:VAL:HG12	1:A:35:VAL:H	7	0.75
(1,43)	1:A:35:VAL:HG13	1:A:35:VAL:H	7	0.75
(1,43)	1:A:35:VAL:HG11	1:A:35:VAL:H	10	0.75
(1,43)	1:A:35:VAL:HG12	1:A:35:VAL:H	10	0.75
(1,43)	1:A:35:VAL:HG13	1:A:35:VAL:H	10	0.75
(1,43)	1:A:35:VAL:HG11	1:A:35:VAL:H	13	0.75
(1,43)	1:A:35:VAL:HG12	1:A:35:VAL:H	13	0.75
(1,43)	1:A:35:VAL:HG13	1:A:35:VAL:H	13	0.75
(1,43)	1:A:35:VAL:HG11	1:A:35:VAL:H	14	0.75
(1,43)	1:A:35:VAL:HG12	1:A:35:VAL:H	14	0.75
(1,43)	1:A:35:VAL:HG13	1:A:35:VAL:H	14	0.75
(1,43)	1:A:35:VAL:HG11	1:A:35:VAL:H	15	0.75
(1,43)	1:A:35:VAL:HG12	1:A:35:VAL:H	15	0.75
(1,43)	1:A:35:VAL:HG13	1:A:35:VAL:H	15	0.75
(1,43)	1:A:35:VAL:HG11	1:A:35:VAL:H	17	0.75
(1,43)	1:A:35:VAL:HG12	1:A:35:VAL:H	17	0.75
(1,43)	1:A:35:VAL:HG13	1:A:35:VAL:H	17	0.75
(1,43)	1:A:35:VAL:HG11	1:A:35:VAL:H	18	0.75
(1,43)	1:A:35:VAL:HG12	1:A:35:VAL:H	18	0.75
(1,43)	1:A:35:VAL:HG13	1:A:35:VAL:H	18	0.75
(1,4)	1:A:45:ARG:HB3	1:A:45:ARG:H	9	0.75
(1,375)	1:A:6:GLN:HB3	1:A:6:GLN:H	9	0.75
(1,340)	1:A:55:CYS:HB2	1:A:56:ASP:H	10	0.75
(1,31)	1:A:2:CYS:HB3	1:A:2:CYS:H	17	0.75
(1,28)	1:A:42:LEU:HB3	1:A:42:LEU:H	12	0.75
(1,27)	1:A:39:GLN:HB3	1:A:39:GLN:H	13	0.75
(1,210)	1:A:38:GLU:HB3	1:A:39:GLN:H	6	0.75
(1,210)	1:A:38:GLU:HB3	1:A:39:GLN:H	9	0.75
(1,210)	1:A:38:GLU:HB3	1:A:39:GLN:H	10	0.75
(1,210)	1:A:38:GLU:HB3	1:A:39:GLN:H	16	0.75
(1,19)	1:A:25:ARG:HB3	1:A:26:ASP:H	7	0.75
(1,168)	1:A:25:ARG:HG3	1:A:29:GLY:H	9	0.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,78)	1:A:40:LYS:HB2	1:A:41:ASN:H	14	0.74
(1,463)	1:A:52:VAL:HG21	1:A:51:THR:HB	9	0.74
(1,463)	1:A:52:VAL:HG22	1:A:51:THR:HB	9	0.74
(1,463)	1:A:52:VAL:HG23	1:A:51:THR:HB	9	0.74
(1,43)	1:A:35:VAL:HG11	1:A:35:VAL:H	19	0.74
(1,43)	1:A:35:VAL:HG12	1:A:35:VAL:H	19	0.74
(1,43)	1:A:35:VAL:HG13	1:A:35:VAL:H	19	0.74
(1,4)	1:A:45:ARG:HB3	1:A:45:ARG:H	5	0.74
(1,37)	1:A:18:ASN:HB3	1:A:18:ASN:H	4	0.74
(1,340)	1:A:55:CYS:HB2	1:A:56:ASP:H	2	0.74
(1,32)	1:A:24:CYS:HA	1:A:24:CYS:H	2	0.74
(1,28)	1:A:42:LEU:HB3	1:A:42:LEU:H	6	0.74
(1,28)	1:A:42:LEU:HB3	1:A:42:LEU:H	8	0.74
(1,28)	1:A:42:LEU:HB3	1:A:42:LEU:H	17	0.74
(1,168)	1:A:25:ARG:HG3	1:A:29:GLY:H	7	0.74
(1,168)	1:A:25:ARG:HG3	1:A:29:GLY:H	10	0.74
(1,91)	1:A:3:GLU:HB3	1:A:4:ARG:H	9	0.73
(1,53)	1:A:62:GLU:HB3	1:A:62:GLU:H	10	0.73
(1,50)	1:A:25:ARG:HG2	1:A:11:CYS:H	5	0.73
(1,46)	1:A:40:LYS:HG3	1:A:36:ASP:H	1	0.73
(1,43)	1:A:35:VAL:HG11	1:A:35:VAL:H	3	0.73
(1,43)	1:A:35:VAL:HG12	1:A:35:VAL:H	3	0.73
(1,43)	1:A:35:VAL:HG13	1:A:35:VAL:H	3	0.73
(1,43)	1:A:35:VAL:HG11	1:A:35:VAL:H	8	0.73
(1,43)	1:A:35:VAL:HG12	1:A:35:VAL:H	8	0.73
(1,43)	1:A:35:VAL:HG13	1:A:35:VAL:H	8	0.73
(1,43)	1:A:35:VAL:HG11	1:A:35:VAL:H	16	0.73
(1,43)	1:A:35:VAL:HG12	1:A:35:VAL:H	16	0.73
(1,43)	1:A:35:VAL:HG13	1:A:35:VAL:H	16	0.73
(1,41)	1:A:4:ARG:HG2	1:A:5:GLU:H	8	0.73
(1,375)	1:A:6:GLN:HB3	1:A:6:GLN:H	4	0.73
(1,32)	1:A:24:CYS:HA	1:A:24:CYS:H	4	0.73
(1,32)	1:A:24:CYS:HA	1:A:24:CYS:H	5	0.73
(1,32)	1:A:24:CYS:HA	1:A:24:CYS:H	6	0.73
(1,32)	1:A:24:CYS:HA	1:A:24:CYS:H	10	0.73
(1,28)	1:A:42:LEU:HB3	1:A:42:LEU:H	18	0.73
(1,28)	1:A:42:LEU:HB3	1:A:42:LEU:H	19	0.73
(1,25)	1:A:38:GLU:HG3	1:A:38:GLU:H	18	0.73
(1,210)	1:A:38:GLU:HB3	1:A:39:GLN:H	3	0.73
(1,193)	1:A:17:ASP:HB2	1:A:18:ASN:H	13	0.73
(1,193)	1:A:17:ASP:HB2	1:A:18:ASN:H	18	0.73
(1,162)	1:A:52:VAL:HG11	1:A:61:CYS:H	5	0.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,162)	1:A:52:VAL:HG12	1:A:61:CYS:H	5	0.73
(1,162)	1:A:52:VAL:HG13	1:A:61:CYS:H	5	0.73
(1,162)	1:A:52:VAL:HG11	1:A:61:CYS:H	9	0.73
(1,162)	1:A:52:VAL:HG12	1:A:61:CYS:H	9	0.73
(1,162)	1:A:52:VAL:HG13	1:A:61:CYS:H	9	0.73
(1,78)	1:A:40:LYS:HB2	1:A:41:ASN:H	20	0.72
(1,469)	1:A:50:CYS:HB3	1:A:19:SER:HB3	1	0.72
(1,390)	1:A:52:VAL:HG11	1:A:62:GLU:H	12	0.72
(1,390)	1:A:52:VAL:HG12	1:A:62:GLU:H	12	0.72
(1,390)	1:A:52:VAL:HG13	1:A:62:GLU:H	12	0.72
(1,28)	1:A:42:LEU:HB3	1:A:42:LEU:H	9	0.72
(1,25)	1:A:38:GLU:HG3	1:A:38:GLU:H	8	0.72
(1,193)	1:A:17:ASP:HB2	1:A:18:ASN:H	14	0.72
(1,19)	1:A:25:ARG:HB3	1:A:26:ASP:H	19	0.72
(1,97)	1:A:14:ASN:HB3	1:A:15:GLU:H	15	0.71
(1,54)	1:A:62:GLU:HG3	1:A:62:GLU:H	7	0.71
(1,463)	1:A:52:VAL:HG21	1:A:51:THR:HB	10	0.71
(1,463)	1:A:52:VAL:HG22	1:A:51:THR:HB	10	0.71
(1,463)	1:A:52:VAL:HG23	1:A:51:THR:HB	10	0.71
(1,463)	1:A:52:VAL:HG21	1:A:51:THR:HB	16	0.71
(1,463)	1:A:52:VAL:HG22	1:A:51:THR:HB	16	0.71
(1,463)	1:A:52:VAL:HG23	1:A:51:THR:HB	16	0.71
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG11	18	0.71
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG12	18	0.71
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG13	18	0.71
(1,444)	1:A:34:TYR:HD1	1:A:6:GLN:HG2	12	0.71
(1,43)	1:A:35:VAL:HG11	1:A:35:VAL:H	12	0.71
(1,43)	1:A:35:VAL:HG12	1:A:35:VAL:H	12	0.71
(1,43)	1:A:35:VAL:HG13	1:A:35:VAL:H	12	0.71
(1,402)	1:A:2:CYS:HB2	1:A:3:GLU:H	8	0.71
(1,375)	1:A:6:GLN:HB3	1:A:6:GLN:H	2	0.71
(1,355)	1:A:11:CYS:HB2	1:A:25:ARG:H	13	0.71
(1,355)	1:A:11:CYS:HB2	1:A:25:ARG:H	19	0.71
(1,340)	1:A:55:CYS:HB2	1:A:56:ASP:H	18	0.71
(1,32)	1:A:24:CYS:HA	1:A:24:CYS:H	15	0.71
(1,32)	1:A:24:CYS:HA	1:A:24:CYS:H	16	0.71
(1,32)	1:A:24:CYS:HA	1:A:24:CYS:H	17	0.71
(1,32)	1:A:24:CYS:HA	1:A:24:CYS:H	18	0.71
(1,28)	1:A:42:LEU:HB3	1:A:42:LEU:H	3	0.71
(1,210)	1:A:38:GLU:HB3	1:A:39:GLN:H	17	0.71
(1,198)	1:A:17:ASP:HB2	1:A:19:SER:H	11	0.71
(1,193)	1:A:17:ASP:HB2	1:A:18:ASN:H	20	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,19)	1:A:25:ARG:HB3	1:A:26:ASP:H	15	0.71
(1,13)	1:A:45:ARG:HB2	1:A:46:LYS:H	15	0.71
(1,91)	1:A:3:GLU:HB3	1:A:4:ARG:H	6	0.7
(1,91)	1:A:3:GLU:HB3	1:A:4:ARG:H	8	0.7
(1,55)	1:A:25:ARG:HD3	1:A:25:ARG:H	12	0.7
(1,463)	1:A:52:VAL:HG21	1:A:51:THR:HB	5	0.7
(1,463)	1:A:52:VAL:HG22	1:A:51:THR:HB	5	0.7
(1,463)	1:A:52:VAL:HG23	1:A:51:THR:HB	5	0.7
(1,463)	1:A:52:VAL:HG21	1:A:51:THR:HB	15	0.7
(1,463)	1:A:52:VAL:HG22	1:A:51:THR:HB	15	0.7
(1,463)	1:A:52:VAL:HG23	1:A:51:THR:HB	15	0.7
(1,442)	1:A:8:LEU:HD21	1:A:6:GLN:HG2	15	0.7
(1,442)	1:A:8:LEU:HD22	1:A:6:GLN:HG2	15	0.7
(1,442)	1:A:8:LEU:HD23	1:A:6:GLN:HG2	15	0.7
(1,35)	1:A:27:LEU:HB3	1:A:27:LEU:H	17	0.7
(1,340)	1:A:55:CYS:HB2	1:A:56:ASP:H	12	0.7
(1,32)	1:A:24:CYS:HA	1:A:24:CYS:H	8	0.7
(1,32)	1:A:24:CYS:HA	1:A:24:CYS:H	20	0.7
(1,31)	1:A:2:CYS:HB3	1:A:2:CYS:H	18	0.7
(1,28)	1:A:42:LEU:HB3	1:A:42:LEU:H	14	0.7
(1,271)	1:A:27:LEU:HB2	1:A:27:LEU:H	13	0.7
(1,25)	1:A:38:GLU:HG3	1:A:38:GLU:H	19	0.7
(1,168)	1:A:25:ARG:HG3	1:A:29:GLY:H	5	0.7
(1,111)	1:A:41:ASN:HB2	1:A:42:LEU:H	10	0.7
(1,463)	1:A:52:VAL:HG21	1:A:51:THR:HB	1	0.69
(1,463)	1:A:52:VAL:HG22	1:A:51:THR:HB	1	0.69
(1,463)	1:A:52:VAL:HG23	1:A:51:THR:HB	1	0.69
(1,463)	1:A:52:VAL:HG21	1:A:51:THR:HB	18	0.69
(1,463)	1:A:52:VAL:HG22	1:A:51:THR:HB	18	0.69
(1,463)	1:A:52:VAL:HG23	1:A:51:THR:HB	18	0.69
(1,375)	1:A:6:GLN:HB3	1:A:6:GLN:H	8	0.69
(1,32)	1:A:24:CYS:HA	1:A:24:CYS:H	1	0.69
(1,32)	1:A:24:CYS:HA	1:A:24:CYS:H	9	0.69
(1,32)	1:A:24:CYS:HA	1:A:24:CYS:H	11	0.69
(1,32)	1:A:24:CYS:HA	1:A:24:CYS:H	13	0.69
(1,28)	1:A:42:LEU:HB3	1:A:42:LEU:H	15	0.69
(1,198)	1:A:17:ASP:HB2	1:A:19:SER:H	6	0.69
(1,193)	1:A:17:ASP:HB2	1:A:18:ASN:H	5	0.69
(1,193)	1:A:17:ASP:HB2	1:A:18:ASN:H	12	0.69
(1,19)	1:A:25:ARG:HB3	1:A:26:ASP:H	16	0.69
(1,168)	1:A:25:ARG:HG3	1:A:29:GLY:H	1	0.69
(1,168)	1:A:25:ARG:HG3	1:A:29:GLY:H	15	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,162)	1:A:52:VAL:HG11	1:A:61:CYS:H	14	0.69
(1,162)	1:A:52:VAL:HG12	1:A:61:CYS:H	14	0.69
(1,162)	1:A:52:VAL:HG13	1:A:61:CYS:H	14	0.69
(1,91)	1:A:3:GLU:HB3	1:A:4:ARG:H	11	0.68
(1,446)	1:A:24:CYS:HB2	1:A:8:LEU:HD11	11	0.68
(1,446)	1:A:24:CYS:HB2	1:A:8:LEU:HD12	11	0.68
(1,446)	1:A:24:CYS:HB2	1:A:8:LEU:HD13	11	0.68
(1,446)	1:A:24:CYS:HB3	1:A:8:LEU:HD11	11	0.68
(1,446)	1:A:24:CYS:HB3	1:A:8:LEU:HD12	11	0.68
(1,446)	1:A:24:CYS:HB3	1:A:8:LEU:HD13	11	0.68
(1,35)	1:A:27:LEU:HB3	1:A:27:LEU:H	2	0.68
(1,35)	1:A:27:LEU:HB3	1:A:27:LEU:H	13	0.68
(1,32)	1:A:24:CYS:HA	1:A:24:CYS:H	3	0.68
(1,32)	1:A:24:CYS:HA	1:A:24:CYS:H	14	0.68
(1,32)	1:A:24:CYS:HA	1:A:24:CYS:H	19	0.68
(1,271)	1:A:27:LEU:HB2	1:A:27:LEU:H	2	0.68
(1,268)	1:A:24:CYS:HB3	1:A:24:CYS:H	16	0.68
(1,210)	1:A:38:GLU:HB3	1:A:39:GLN:H	7	0.68
(1,210)	1:A:38:GLU:HB3	1:A:39:GLN:H	11	0.68
(1,210)	1:A:38:GLU:HB3	1:A:39:GLN:H	13	0.68
(1,198)	1:A:17:ASP:HB2	1:A:19:SER:H	12	0.68
(1,111)	1:A:41:ASN:HB2	1:A:42:LEU:H	1	0.68
(1,86)	1:A:23:CYS:HB2	1:A:24:CYS:H	5	0.67
(1,67)	1:A:26:ASP:HB3	1:A:27:LEU:H	6	0.67
(1,53)	1:A:62:GLU:HB3	1:A:62:GLU:H	9	0.67
(1,442)	1:A:8:LEU:HD21	1:A:6:GLN:HG2	4	0.67
(1,442)	1:A:8:LEU:HD22	1:A:6:GLN:HG2	4	0.67
(1,442)	1:A:8:LEU:HD23	1:A:6:GLN:HG2	4	0.67
(1,32)	1:A:24:CYS:HA	1:A:24:CYS:H	7	0.67
(1,285)	1:A:26:ASP:HB2	1:A:26:ASP:H	4	0.67
(1,271)	1:A:27:LEU:HB2	1:A:27:LEU:H	10	0.67
(1,271)	1:A:27:LEU:HB2	1:A:27:LEU:H	17	0.67
(1,268)	1:A:24:CYS:HB3	1:A:24:CYS:H	3	0.67
(1,268)	1:A:24:CYS:HB3	1:A:24:CYS:H	12	0.67
(1,168)	1:A:25:ARG:HG3	1:A:29:GLY:H	13	0.67
(1,15)	1:A:54:PHE:HB2	1:A:55:CYS:H	17	0.67
(1,10)	1:A:9:GLU:HB2	1:A:10:SER:H	2	0.67
(1,54)	1:A:62:GLU:HG3	1:A:62:GLU:H	10	0.66
(1,53)	1:A:62:GLU:HB3	1:A:62:GLU:H	5	0.66
(1,469)	1:A:50:CYS:HB3	1:A:19:SER:HB3	5	0.66
(1,444)	1:A:34:TYR:HD1	1:A:6:GLN:HG2	10	0.66
(1,440)	1:A:26:ASP:HB3	1:A:32:VAL:HG21	6	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,440)	1:A:26:ASP:HB3	1:A:32:VAL:HG22	6	0.66
(1,440)	1:A:26:ASP:HB3	1:A:32:VAL:HG23	6	0.66
(1,32)	1:A:24:CYS:HA	1:A:24:CYS:H	12	0.66
(1,31)	1:A:2:CYS:HB3	1:A:2:CYS:H	11	0.66
(1,273)	1:A:43:PHE:HB2	1:A:43:PHE:H	16	0.66
(1,273)	1:A:43:PHE:HB2	1:A:43:PHE:H	20	0.66
(1,268)	1:A:24:CYS:HB3	1:A:24:CYS:H	14	0.66
(1,193)	1:A:17:ASP:HB2	1:A:18:ASN:H	11	0.66
(1,193)	1:A:17:ASP:HB2	1:A:18:ASN:H	19	0.66
(1,162)	1:A:52:VAL:HG11	1:A:61:CYS:H	6	0.66
(1,162)	1:A:52:VAL:HG12	1:A:61:CYS:H	6	0.66
(1,162)	1:A:52:VAL:HG13	1:A:61:CYS:H	6	0.66
(1,111)	1:A:41:ASN:HB2	1:A:42:LEU:H	5	0.66
(1,91)	1:A:3:GLU:HB3	1:A:4:ARG:H	13	0.65
(1,86)	1:A:23:CYS:HB2	1:A:24:CYS:H	11	0.65
(1,31)	1:A:2:CYS:HB3	1:A:2:CYS:H	1	0.65
(1,275)	1:A:36:ASP:HB2	1:A:36:ASP:H	2	0.65
(1,271)	1:A:27:LEU:HB2	1:A:27:LEU:H	18	0.65
(1,25)	1:A:38:GLU:HG3	1:A:38:GLU:H	17	0.65
(1,22)	1:A:40:LYS:HG2	1:A:41:ASN:H	9	0.65
(1,198)	1:A:17:ASP:HB2	1:A:19:SER:H	2	0.65
(1,193)	1:A:17:ASP:HB2	1:A:18:ASN:H	17	0.65
(1,140)	1:A:44:LEU:HB2	1:A:45:ARG:H	16	0.65
(1,111)	1:A:41:ASN:HB2	1:A:42:LEU:H	13	0.65
(1,97)	1:A:14:ASN:HB3	1:A:15:GLU:H	11	0.64
(1,86)	1:A:23:CYS:HB2	1:A:24:CYS:H	18	0.64
(1,51)	1:A:55:CYS:HB3	1:A:56:ASP:H	1	0.64
(1,463)	1:A:52:VAL:HG21	1:A:51:THR:HB	6	0.64
(1,463)	1:A:52:VAL:HG22	1:A:51:THR:HB	6	0.64
(1,463)	1:A:52:VAL:HG23	1:A:51:THR:HB	6	0.64
(1,352)	1:A:60:LYS:HB3	1:A:61:CYS:H	9	0.64
(1,28)	1:A:42:LEU:HB3	1:A:42:LEU:H	16	0.64
(1,273)	1:A:43:PHE:HB2	1:A:43:PHE:H	11	0.64
(1,193)	1:A:17:ASP:HB2	1:A:18:ASN:H	6	0.64
(1,101)	1:A:13:CYS:HB2	1:A:15:GLU:H	18	0.64
(1,10)	1:A:9:GLU:HB2	1:A:10:SER:H	7	0.64
(1,10)	1:A:9:GLU:HB2	1:A:10:SER:H	20	0.64
(1,53)	1:A:62:GLU:HB3	1:A:62:GLU:H	20	0.63
(1,463)	1:A:52:VAL:HG21	1:A:51:THR:HB	17	0.63
(1,463)	1:A:52:VAL:HG22	1:A:51:THR:HB	17	0.63
(1,463)	1:A:52:VAL:HG23	1:A:51:THR:HB	17	0.63
(1,447)	1:A:12:ALA:HA	1:A:23:CYS:HB3	20	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,422)	1:A:8:LEU:HD21	1:A:6:GLN:HB2	4	0.63
(1,422)	1:A:8:LEU:HD22	1:A:6:GLN:HB2	4	0.63
(1,422)	1:A:8:LEU:HD23	1:A:6:GLN:HB2	4	0.63
(1,402)	1:A:2:CYS:HB2	1:A:3:GLU:H	10	0.63
(1,362)	1:A:23:CYS:HB2	1:A:32:VAL:H	11	0.63
(1,340)	1:A:55:CYS:HB2	1:A:56:ASP:H	9	0.63
(1,31)	1:A:2:CYS:HB3	1:A:2:CYS:H	16	0.63
(1,285)	1:A:26:ASP:HB2	1:A:26:ASP:H	12	0.63
(1,275)	1:A:36:ASP:HB2	1:A:36:ASP:H	16	0.63
(1,273)	1:A:43:PHE:HB2	1:A:43:PHE:H	2	0.63
(1,268)	1:A:24:CYS:HB3	1:A:24:CYS:H	6	0.63
(1,246)	1:A:21:LYS:HB3	1:A:21:LYS:H	5	0.63
(1,198)	1:A:17:ASP:HB2	1:A:19:SER:H	4	0.63
(1,198)	1:A:17:ASP:HB2	1:A:19:SER:H	19	0.63
(1,168)	1:A:25:ARG:HG3	1:A:29:GLY:H	16	0.63
(1,162)	1:A:52:VAL:HG11	1:A:61:CYS:H	13	0.63
(1,162)	1:A:52:VAL:HG12	1:A:61:CYS:H	13	0.63
(1,162)	1:A:52:VAL:HG13	1:A:61:CYS:H	13	0.63
(1,111)	1:A:41:ASN:HB2	1:A:42:LEU:H	11	0.63
(1,111)	1:A:41:ASN:HB2	1:A:42:LEU:H	19	0.63
(1,10)	1:A:9:GLU:HB2	1:A:10:SER:H	9	0.63
(1,53)	1:A:62:GLU:HB3	1:A:62:GLU:H	19	0.62
(1,463)	1:A:52:VAL:HG21	1:A:51:THR:HB	20	0.62
(1,463)	1:A:52:VAL:HG22	1:A:51:THR:HB	20	0.62
(1,463)	1:A:52:VAL:HG23	1:A:51:THR:HB	20	0.62
(1,285)	1:A:26:ASP:HB2	1:A:26:ASP:H	2	0.62
(1,285)	1:A:26:ASP:HB2	1:A:26:ASP:H	3	0.62
(1,268)	1:A:24:CYS:HB3	1:A:24:CYS:H	20	0.62
(1,198)	1:A:17:ASP:HB2	1:A:19:SER:H	5	0.62
(1,198)	1:A:17:ASP:HB2	1:A:19:SER:H	14	0.62
(1,198)	1:A:17:ASP:HB2	1:A:19:SER:H	20	0.62
(1,193)	1:A:17:ASP:HB2	1:A:18:ASN:H	3	0.62
(1,12)	1:A:9:GLU:HG2	1:A:10:SER:H	6	0.62
(1,111)	1:A:41:ASN:HB2	1:A:42:LEU:H	2	0.62
(1,10)	1:A:9:GLU:HB2	1:A:10:SER:H	14	0.62
(1,54)	1:A:62:GLU:HG3	1:A:62:GLU:H	11	0.61
(1,53)	1:A:62:GLU:HB3	1:A:62:GLU:H	14	0.61
(1,463)	1:A:52:VAL:HG21	1:A:51:THR:HB	2	0.61
(1,463)	1:A:52:VAL:HG22	1:A:51:THR:HB	2	0.61
(1,463)	1:A:52:VAL:HG23	1:A:51:THR:HB	2	0.61
(1,463)	1:A:52:VAL:HG21	1:A:51:THR:HB	11	0.61
(1,463)	1:A:52:VAL:HG22	1:A:51:THR:HB	11	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,463)	1:A:52:VAL:HG23	1:A:51:THR:HB	11	0.61
(1,402)	1:A:2:CYS:HB2	1:A:3:GLU:H	15	0.61
(1,275)	1:A:36:ASP:HB2	1:A:36:ASP:H	3	0.61
(1,273)	1:A:43:PHE:HB2	1:A:43:PHE:H	9	0.61
(1,268)	1:A:24:CYS:HB3	1:A:24:CYS:H	4	0.61
(1,198)	1:A:17:ASP:HB2	1:A:19:SER:H	1	0.61
(1,198)	1:A:17:ASP:HB2	1:A:19:SER:H	18	0.61
(1,193)	1:A:17:ASP:HB2	1:A:18:ASN:H	8	0.61
(1,111)	1:A:41:ASN:HB2	1:A:42:LEU:H	12	0.61
(1,78)	1:A:40:LYS:HB2	1:A:41:ASN:H	8	0.6
(1,67)	1:A:26:ASP:HB3	1:A:27:LEU:H	16	0.6
(1,463)	1:A:52:VAL:HG21	1:A:51:THR:HB	14	0.6
(1,463)	1:A:52:VAL:HG22	1:A:51:THR:HB	14	0.6
(1,463)	1:A:52:VAL:HG23	1:A:51:THR:HB	14	0.6
(1,447)	1:A:12:ALA:HA	1:A:23:CYS:HB3	13	0.6
(1,434)	1:A:22:VAL:HB	1:A:42:LEU:HD11	11	0.6
(1,434)	1:A:22:VAL:HB	1:A:42:LEU:HD12	11	0.6
(1,434)	1:A:22:VAL:HB	1:A:42:LEU:HD13	11	0.6
(1,422)	1:A:8:LEU:HD21	1:A:6:GLN:HB2	15	0.6
(1,422)	1:A:8:LEU:HD22	1:A:6:GLN:HB2	15	0.6
(1,422)	1:A:8:LEU:HD23	1:A:6:GLN:HB2	15	0.6
(1,31)	1:A:2:CYS:HB3	1:A:2:CYS:H	5	0.6
(1,285)	1:A:26:ASP:HB2	1:A:26:ASP:H	20	0.6
(1,275)	1:A:36:ASP:HB2	1:A:36:ASP:H	1	0.6
(1,275)	1:A:36:ASP:HB2	1:A:36:ASP:H	4	0.6
(1,275)	1:A:36:ASP:HB2	1:A:36:ASP:H	10	0.6
(1,275)	1:A:36:ASP:HB2	1:A:36:ASP:H	17	0.6
(1,273)	1:A:43:PHE:HB2	1:A:43:PHE:H	19	0.6
(1,268)	1:A:24:CYS:HB3	1:A:24:CYS:H	19	0.6
(1,23)	1:A:5:GLU:HG3	1:A:5:GLU:H	6	0.6
(1,198)	1:A:17:ASP:HB2	1:A:19:SER:H	3	0.6
(1,198)	1:A:17:ASP:HB2	1:A:19:SER:H	7	0.6
(1,198)	1:A:17:ASP:HB2	1:A:19:SER:H	13	0.6
(1,198)	1:A:17:ASP:HB2	1:A:19:SER:H	15	0.6
(1,111)	1:A:41:ASN:HB2	1:A:42:LEU:H	6	0.6
(1,111)	1:A:41:ASN:HB2	1:A:42:LEU:H	15	0.6
(1,101)	1:A:13:CYS:HB2	1:A:15:GLU:H	15	0.6
(1,101)	1:A:13:CYS:HB2	1:A:15:GLU:H	17	0.6
(1,94)	1:A:55:CYS:HB2	1:A:48:LYS:H	18	0.59
(1,91)	1:A:3:GLU:HB3	1:A:4:ARG:H	17	0.59
(1,86)	1:A:23:CYS:HB2	1:A:24:CYS:H	10	0.59
(1,54)	1:A:62:GLU:HG3	1:A:62:GLU:H	1	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,53)	1:A:62:GLU:HB3	1:A:62:GLU:H	18	0.59
(1,463)	1:A:52:VAL:HG21	1:A:51:THR:HB	4	0.59
(1,463)	1:A:52:VAL:HG22	1:A:51:THR:HB	4	0.59
(1,463)	1:A:52:VAL:HG23	1:A:51:THR:HB	4	0.59
(1,442)	1:A:8:LEU:HD21	1:A:6:GLN:HG2	2	0.59
(1,442)	1:A:8:LEU:HD22	1:A:6:GLN:HG2	2	0.59
(1,442)	1:A:8:LEU:HD23	1:A:6:GLN:HG2	2	0.59
(1,442)	1:A:8:LEU:HD21	1:A:6:GLN:HG2	18	0.59
(1,442)	1:A:8:LEU:HD22	1:A:6:GLN:HG2	18	0.59
(1,442)	1:A:8:LEU:HD23	1:A:6:GLN:HG2	18	0.59
(1,210)	1:A:38:GLU:HB3	1:A:39:GLN:H	2	0.59
(1,21)	1:A:27:LEU:HD21	1:A:28:SER:H	15	0.59
(1,21)	1:A:27:LEU:HD22	1:A:28:SER:H	15	0.59
(1,21)	1:A:27:LEU:HD23	1:A:28:SER:H	15	0.59
(1,162)	1:A:52:VAL:HG11	1:A:61:CYS:H	1	0.59
(1,162)	1:A:52:VAL:HG12	1:A:61:CYS:H	1	0.59
(1,162)	1:A:52:VAL:HG13	1:A:61:CYS:H	1	0.59
(1,111)	1:A:41:ASN:HB2	1:A:42:LEU:H	17	0.59
(1,54)	1:A:62:GLU:HG3	1:A:62:GLU:H	2	0.58
(1,463)	1:A:52:VAL:HG21	1:A:51:THR:HB	12	0.58
(1,463)	1:A:52:VAL:HG22	1:A:51:THR:HB	12	0.58
(1,463)	1:A:52:VAL:HG23	1:A:51:THR:HB	12	0.58
(1,442)	1:A:8:LEU:HD21	1:A:6:GLN:HG2	7	0.58
(1,442)	1:A:8:LEU:HD22	1:A:6:GLN:HG2	7	0.58
(1,442)	1:A:8:LEU:HD23	1:A:6:GLN:HG2	7	0.58
(1,442)	1:A:8:LEU:HD21	1:A:6:GLN:HG2	10	0.58
(1,442)	1:A:8:LEU:HD22	1:A:6:GLN:HG2	10	0.58
(1,442)	1:A:8:LEU:HD23	1:A:6:GLN:HG2	10	0.58
(1,285)	1:A:26:ASP:HB2	1:A:26:ASP:H	14	0.58
(1,268)	1:A:24:CYS:HB3	1:A:24:CYS:H	8	0.58
(1,268)	1:A:24:CYS:HB3	1:A:24:CYS:H	9	0.58
(1,25)	1:A:38:GLU:HG3	1:A:38:GLU:H	6	0.58
(1,23)	1:A:5:GLU:HG3	1:A:5:GLU:H	20	0.58
(1,210)	1:A:38:GLU:HB3	1:A:39:GLN:H	14	0.58
(1,198)	1:A:17:ASP:HB2	1:A:19:SER:H	8	0.58
(1,162)	1:A:52:VAL:HG11	1:A:61:CYS:H	18	0.58
(1,162)	1:A:52:VAL:HG12	1:A:61:CYS:H	18	0.58
(1,162)	1:A:52:VAL:HG13	1:A:61:CYS:H	18	0.58
(1,140)	1:A:44:LEU:HB2	1:A:45:ARG:H	6	0.58
(1,111)	1:A:41:ASN:HB2	1:A:42:LEU:H	14	0.58
(1,91)	1:A:3:GLU:HB3	1:A:4:ARG:H	10	0.57
(1,86)	1:A:23:CYS:HB2	1:A:24:CYS:H	17	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,55)	1:A:25:ARG:HD3	1:A:25:ARG:H	20	0.57
(1,426)	1:A:8:LEU:HD21	1:A:6:GLN:HG3	10	0.57
(1,426)	1:A:8:LEU:HD22	1:A:6:GLN:HG3	10	0.57
(1,426)	1:A:8:LEU:HD23	1:A:6:GLN:HG3	10	0.57
(1,402)	1:A:2:CYS:HB2	1:A:3:GLU:H	9	0.57
(1,390)	1:A:52:VAL:HG11	1:A:62:GLU:H	7	0.57
(1,390)	1:A:52:VAL:HG12	1:A:62:GLU:H	7	0.57
(1,390)	1:A:52:VAL:HG13	1:A:62:GLU:H	7	0.57
(1,275)	1:A:36:ASP:HB2	1:A:36:ASP:H	8	0.57
(1,21)	1:A:27:LEU:HD21	1:A:28:SER:H	4	0.57
(1,21)	1:A:27:LEU:HD22	1:A:28:SER:H	4	0.57
(1,21)	1:A:27:LEU:HD23	1:A:28:SER:H	4	0.57
(1,126)	1:A:11:CYS:HB2	1:A:12:ALA:H	4	0.57
(1,111)	1:A:41:ASN:HB2	1:A:42:LEU:H	3	0.57
(1,111)	1:A:41:ASN:HB2	1:A:42:LEU:H	18	0.57
(1,10)	1:A:9:GLU:HB2	1:A:10:SER:H	15	0.57
(1,91)	1:A:3:GLU:HB3	1:A:4:ARG:H	7	0.56
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG11	19	0.56
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG12	19	0.56
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG13	19	0.56
(1,447)	1:A:12:ALA:HA	1:A:23:CYS:HB3	6	0.56
(1,426)	1:A:8:LEU:HD21	1:A:6:GLN:HG3	15	0.56
(1,426)	1:A:8:LEU:HD22	1:A:6:GLN:HG3	15	0.56
(1,426)	1:A:8:LEU:HD23	1:A:6:GLN:HG3	15	0.56
(1,375)	1:A:6:GLN:HB3	1:A:6:GLN:H	11	0.56
(1,362)	1:A:23:CYS:HB2	1:A:32:VAL:H	2	0.56
(1,362)	1:A:23:CYS:HB2	1:A:32:VAL:H	3	0.56
(1,31)	1:A:2:CYS:HB3	1:A:2:CYS:H	6	0.56
(1,285)	1:A:26:ASP:HB2	1:A:26:ASP:H	8	0.56
(1,285)	1:A:26:ASP:HB2	1:A:26:ASP:H	15	0.56
(1,275)	1:A:36:ASP:HB2	1:A:36:ASP:H	6	0.56
(1,275)	1:A:36:ASP:HB2	1:A:36:ASP:H	13	0.56
(1,275)	1:A:36:ASP:HB2	1:A:36:ASP:H	14	0.56
(1,275)	1:A:36:ASP:HB2	1:A:36:ASP:H	15	0.56
(1,268)	1:A:24:CYS:HB3	1:A:24:CYS:H	5	0.56
(1,268)	1:A:24:CYS:HB3	1:A:24:CYS:H	10	0.56
(1,25)	1:A:38:GLU:HG3	1:A:38:GLU:H	7	0.56
(1,23)	1:A:5:GLU:HG3	1:A:5:GLU:H	3	0.56
(1,23)	1:A:5:GLU:HG3	1:A:5:GLU:H	11	0.56
(1,22)	1:A:40:LYS:HG2	1:A:41:ASN:H	7	0.56
(1,210)	1:A:38:GLU:HB3	1:A:39:GLN:H	15	0.56
(1,21)	1:A:27:LEU:HD21	1:A:28:SER:H	8	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,21)	1:A:27:LEU:HD22	1:A:28:SER:H	8	0.56
(1,21)	1:A:27:LEU:HD23	1:A:28:SER:H	8	0.56
(1,162)	1:A:52:VAL:HG11	1:A:61:CYS:H	16	0.56
(1,162)	1:A:52:VAL:HG12	1:A:61:CYS:H	16	0.56
(1,162)	1:A:52:VAL:HG13	1:A:61:CYS:H	16	0.56
(1,140)	1:A:44:LEU:HB2	1:A:45:ARG:H	9	0.56
(1,111)	1:A:41:ASN:HB2	1:A:42:LEU:H	7	0.56
(1,53)	1:A:62:GLU:HB3	1:A:62:GLU:H	8	0.55
(1,439)	1:A:8:LEU:HD11	1:A:6:GLN:HG3	19	0.55
(1,439)	1:A:8:LEU:HD12	1:A:6:GLN:HG3	19	0.55
(1,439)	1:A:8:LEU:HD13	1:A:6:GLN:HG3	19	0.55
(1,426)	1:A:8:LEU:HD21	1:A:6:GLN:HG3	4	0.55
(1,426)	1:A:8:LEU:HD22	1:A:6:GLN:HG3	4	0.55
(1,426)	1:A:8:LEU:HD23	1:A:6:GLN:HG3	4	0.55
(1,425)	1:A:34:TYR:HD1	1:A:36:ASP:HB3	11	0.55
(1,402)	1:A:2:CYS:HB2	1:A:3:GLU:H	2	0.55
(1,31)	1:A:2:CYS:HB3	1:A:2:CYS:H	14	0.55
(1,285)	1:A:26:ASP:HB2	1:A:26:ASP:H	1	0.55
(1,285)	1:A:26:ASP:HB2	1:A:26:ASP:H	10	0.55
(1,285)	1:A:26:ASP:HB2	1:A:26:ASP:H	13	0.55
(1,285)	1:A:26:ASP:HB2	1:A:26:ASP:H	19	0.55
(1,268)	1:A:24:CYS:HB3	1:A:24:CYS:H	11	0.55
(1,268)	1:A:24:CYS:HB3	1:A:24:CYS:H	13	0.55
(1,23)	1:A:5:GLU:HG3	1:A:5:GLU:H	13	0.55
(1,198)	1:A:17:ASP:HB2	1:A:19:SER:H	17	0.55
(1,162)	1:A:52:VAL:HG11	1:A:61:CYS:H	2	0.55
(1,162)	1:A:52:VAL:HG12	1:A:61:CYS:H	2	0.55
(1,162)	1:A:52:VAL:HG13	1:A:61:CYS:H	2	0.55
(1,94)	1:A:55:CYS:HB2	1:A:48:LYS:H	12	0.54
(1,54)	1:A:62:GLU:HG3	1:A:62:GLU:H	20	0.54
(1,463)	1:A:52:VAL:HG21	1:A:51:THR:HB	3	0.54
(1,463)	1:A:52:VAL:HG22	1:A:51:THR:HB	3	0.54
(1,463)	1:A:52:VAL:HG23	1:A:51:THR:HB	3	0.54
(1,463)	1:A:52:VAL:HG21	1:A:51:THR:HB	8	0.54
(1,463)	1:A:52:VAL:HG22	1:A:51:THR:HB	8	0.54
(1,463)	1:A:52:VAL:HG23	1:A:51:THR:HB	8	0.54
(1,434)	1:A:22:VAL:HB	1:A:42:LEU:HD11	2	0.54
(1,434)	1:A:22:VAL:HB	1:A:42:LEU:HD12	2	0.54
(1,434)	1:A:22:VAL:HB	1:A:42:LEU:HD13	2	0.54
(1,426)	1:A:8:LEU:HD21	1:A:6:GLN:HG3	16	0.54
(1,426)	1:A:8:LEU:HD22	1:A:6:GLN:HG3	16	0.54
(1,426)	1:A:8:LEU:HD23	1:A:6:GLN:HG3	16	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,362)	1:A:23:CYS:HB2	1:A:32:VAL:H	6	0.54
(1,362)	1:A:23:CYS:HB2	1:A:32:VAL:H	20	0.54
(1,3)	1:A:21:LYS:HD3	1:A:21:LYS:H	6	0.54
(1,285)	1:A:26:ASP:HB2	1:A:26:ASP:H	7	0.54
(1,285)	1:A:26:ASP:HB2	1:A:26:ASP:H	9	0.54
(1,285)	1:A:26:ASP:HB2	1:A:26:ASP:H	17	0.54
(1,285)	1:A:26:ASP:HB2	1:A:26:ASP:H	18	0.54
(1,21)	1:A:27:LEU:HD21	1:A:28:SER:H	16	0.54
(1,21)	1:A:27:LEU:HD22	1:A:28:SER:H	16	0.54
(1,21)	1:A:27:LEU:HD23	1:A:28:SER:H	16	0.54
(1,162)	1:A:52:VAL:HG11	1:A:61:CYS:H	17	0.54
(1,162)	1:A:52:VAL:HG12	1:A:61:CYS:H	17	0.54
(1,162)	1:A:52:VAL:HG13	1:A:61:CYS:H	17	0.54
(1,162)	1:A:52:VAL:HG11	1:A:61:CYS:H	20	0.54
(1,162)	1:A:52:VAL:HG12	1:A:61:CYS:H	20	0.54
(1,162)	1:A:52:VAL:HG13	1:A:61:CYS:H	20	0.54
(1,141)	1:A:40:LYS:HB3	1:A:41:ASN:H	6	0.54
(1,111)	1:A:41:ASN:HB2	1:A:42:LEU:H	8	0.54
(1,111)	1:A:41:ASN:HB2	1:A:42:LEU:H	9	0.54
(1,101)	1:A:13:CYS:HB2	1:A:15:GLU:H	14	0.54
(1,10)	1:A:9:GLU:HB2	1:A:10:SER:H	12	0.54
(1,10)	1:A:9:GLU:HB2	1:A:10:SER:H	13	0.54
(1,96)	1:A:36:ASP:HB2	1:A:37:ALA:H	20	0.53
(1,362)	1:A:23:CYS:HB2	1:A:32:VAL:H	7	0.53
(1,362)	1:A:23:CYS:HB2	1:A:32:VAL:H	8	0.53
(1,362)	1:A:23:CYS:HB2	1:A:32:VAL:H	12	0.53
(1,362)	1:A:23:CYS:HB2	1:A:32:VAL:H	19	0.53
(1,268)	1:A:24:CYS:HB3	1:A:24:CYS:H	1	0.53
(1,268)	1:A:24:CYS:HB3	1:A:24:CYS:H	2	0.53
(1,21)	1:A:27:LEU:HD21	1:A:28:SER:H	3	0.53
(1,21)	1:A:27:LEU:HD22	1:A:28:SER:H	3	0.53
(1,21)	1:A:27:LEU:HD23	1:A:28:SER:H	3	0.53
(1,162)	1:A:52:VAL:HG11	1:A:61:CYS:H	4	0.53
(1,162)	1:A:52:VAL:HG12	1:A:61:CYS:H	4	0.53
(1,162)	1:A:52:VAL:HG13	1:A:61:CYS:H	4	0.53
(1,141)	1:A:40:LYS:HB3	1:A:41:ASN:H	19	0.53
(1,90)	1:A:32:VAL:HG21	1:A:24:CYS:H	12	0.52
(1,90)	1:A:32:VAL:HG22	1:A:24:CYS:H	12	0.52
(1,90)	1:A:32:VAL:HG23	1:A:24:CYS:H	12	0.52
(1,67)	1:A:26:ASP:HB3	1:A:27:LEU:H	3	0.52
(1,445)	1:A:26:ASP:HB2	1:A:32:VAL:HG21	2	0.52
(1,445)	1:A:26:ASP:HB2	1:A:32:VAL:HG22	2	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,445)	1:A:26:ASP:HB2	1:A:32:VAL:HG23	2	0.52
(1,437)	1:A:1:PHE:HA	1:A:5:GLU:HG3	19	0.52
(1,426)	1:A:8:LEU:HD21	1:A:6:GLN:HG3	2	0.52
(1,426)	1:A:8:LEU:HD22	1:A:6:GLN:HG3	2	0.52
(1,426)	1:A:8:LEU:HD23	1:A:6:GLN:HG3	2	0.52
(1,41)	1:A:4:ARG:HG2	1:A:5:GLU:H	5	0.52
(1,402)	1:A:2:CYS:HB2	1:A:3:GLU:H	4	0.52
(1,362)	1:A:23:CYS:HB2	1:A:32:VAL:H	1	0.52
(1,362)	1:A:23:CYS:HB2	1:A:32:VAL:H	9	0.52
(1,268)	1:A:24:CYS:HB3	1:A:24:CYS:H	7	0.52
(1,233)	1:A:8:LEU:HB3	1:A:8:LEU:H	6	0.52
(1,21)	1:A:27:LEU:HD21	1:A:28:SER:H	7	0.52
(1,21)	1:A:27:LEU:HD22	1:A:28:SER:H	7	0.52
(1,21)	1:A:27:LEU:HD23	1:A:28:SER:H	7	0.52
(1,126)	1:A:11:CYS:HB2	1:A:12:ALA:H	2	0.52
(1,126)	1:A:11:CYS:HB2	1:A:12:ALA:H	18	0.52
(1,101)	1:A:13:CYS:HB2	1:A:15:GLU:H	11	0.52
(1,10)	1:A:9:GLU:HB2	1:A:10:SER:H	1	0.52
(1,10)	1:A:9:GLU:HB2	1:A:10:SER:H	11	0.52
(1,10)	1:A:9:GLU:HB2	1:A:10:SER:H	17	0.52
(1,86)	1:A:23:CYS:HB2	1:A:24:CYS:H	2	0.51
(1,445)	1:A:26:ASP:HB2	1:A:32:VAL:HG21	3	0.51
(1,445)	1:A:26:ASP:HB2	1:A:32:VAL:HG22	3	0.51
(1,445)	1:A:26:ASP:HB2	1:A:32:VAL:HG23	3	0.51
(1,31)	1:A:2:CYS:HB3	1:A:2:CYS:H	19	0.51
(1,268)	1:A:24:CYS:HB3	1:A:24:CYS:H	18	0.51
(1,23)	1:A:5:GLU:HG3	1:A:5:GLU:H	15	0.51
(1,10)	1:A:9:GLU:HB2	1:A:10:SER:H	8	0.51
(1,1)	1:A:21:LYS:HG3	1:A:21:LYS:H	10	0.51
(1,51)	1:A:55:CYS:HB3	1:A:56:ASP:H	7	0.5
(1,48)	1:A:25:ARG:HB3	1:A:25:ARG:H	20	0.5
(1,447)	1:A:12:ALA:HA	1:A:23:CYS:HB3	1	0.5
(1,447)	1:A:12:ALA:HA	1:A:23:CYS:HB3	7	0.5
(1,447)	1:A:12:ALA:HA	1:A:23:CYS:HB3	14	0.5
(1,442)	1:A:8:LEU:HD21	1:A:6:GLN:HG2	14	0.5
(1,442)	1:A:8:LEU:HD22	1:A:6:GLN:HG2	14	0.5
(1,442)	1:A:8:LEU:HD23	1:A:6:GLN:HG2	14	0.5
(1,426)	1:A:8:LEU:HD21	1:A:6:GLN:HG3	7	0.5
(1,426)	1:A:8:LEU:HD22	1:A:6:GLN:HG3	7	0.5
(1,426)	1:A:8:LEU:HD23	1:A:6:GLN:HG3	7	0.5
(1,422)	1:A:8:LEU:HD21	1:A:6:GLN:HB2	18	0.5
(1,422)	1:A:8:LEU:HD22	1:A:6:GLN:HB2	18	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,422)	1:A:8:LEU:HD23	1:A:6:GLN:HB2	18	0.5
(1,362)	1:A:23:CYS:HB2	1:A:32:VAL:H	15	0.5
(1,268)	1:A:24:CYS:HB3	1:A:24:CYS:H	15	0.5
(1,21)	1:A:27:LEU:HD21	1:A:28:SER:H	12	0.5
(1,21)	1:A:27:LEU:HD22	1:A:28:SER:H	12	0.5
(1,21)	1:A:27:LEU:HD23	1:A:28:SER:H	12	0.5
(1,168)	1:A:25:ARG:HG3	1:A:29:GLY:H	8	0.5
(1,140)	1:A:44:LEU:HB2	1:A:45:ARG:H	7	0.5
(1,140)	1:A:44:LEU:HB2	1:A:45:ARG:H	8	0.5
(1,128)	1:A:11:CYS:HB3	1:A:12:ALA:H	20	0.5
(1,126)	1:A:11:CYS:HB2	1:A:12:ALA:H	3	0.5
(1,126)	1:A:11:CYS:HB2	1:A:12:ALA:H	15	0.5
(1,101)	1:A:13:CYS:HB2	1:A:15:GLU:H	7	0.5
(1,10)	1:A:9:GLU:HB2	1:A:10:SER:H	19	0.5
(1,86)	1:A:23:CYS:HB2	1:A:24:CYS:H	15	0.49
(1,447)	1:A:12:ALA:HA	1:A:23:CYS:HB3	11	0.49
(1,442)	1:A:8:LEU:HD21	1:A:6:GLN:HG2	17	0.49
(1,442)	1:A:8:LEU:HD22	1:A:6:GLN:HG2	17	0.49
(1,442)	1:A:8:LEU:HD23	1:A:6:GLN:HG2	17	0.49
(1,438)	1:A:33:PRO:HD3	1:A:32:VAL:HG11	1	0.49
(1,438)	1:A:33:PRO:HD3	1:A:32:VAL:HG12	1	0.49
(1,438)	1:A:33:PRO:HD3	1:A:32:VAL:HG13	1	0.49
(1,438)	1:A:33:PRO:HD2	1:A:32:VAL:HG11	1	0.49
(1,438)	1:A:33:PRO:HD2	1:A:32:VAL:HG12	1	0.49
(1,438)	1:A:33:PRO:HD2	1:A:32:VAL:HG13	1	0.49
(1,438)	1:A:33:PRO:HD3	1:A:32:VAL:HG11	8	0.49
(1,438)	1:A:33:PRO:HD3	1:A:32:VAL:HG12	8	0.49
(1,438)	1:A:33:PRO:HD3	1:A:32:VAL:HG13	8	0.49
(1,438)	1:A:33:PRO:HD2	1:A:32:VAL:HG11	8	0.49
(1,438)	1:A:33:PRO:HD2	1:A:32:VAL:HG12	8	0.49
(1,438)	1:A:33:PRO:HD2	1:A:32:VAL:HG13	8	0.49
(1,438)	1:A:33:PRO:HD3	1:A:32:VAL:HG11	11	0.49
(1,438)	1:A:33:PRO:HD3	1:A:32:VAL:HG12	11	0.49
(1,438)	1:A:33:PRO:HD3	1:A:32:VAL:HG13	11	0.49
(1,438)	1:A:33:PRO:HD2	1:A:32:VAL:HG11	11	0.49
(1,438)	1:A:33:PRO:HD2	1:A:32:VAL:HG12	11	0.49
(1,438)	1:A:33:PRO:HD2	1:A:32:VAL:HG13	11	0.49
(1,438)	1:A:33:PRO:HD3	1:A:32:VAL:HG11	13	0.49
(1,438)	1:A:33:PRO:HD3	1:A:32:VAL:HG12	13	0.49
(1,438)	1:A:33:PRO:HD3	1:A:32:VAL:HG13	13	0.49
(1,438)	1:A:33:PRO:HD2	1:A:32:VAL:HG11	13	0.49
(1,438)	1:A:33:PRO:HD2	1:A:32:VAL:HG12	13	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,438)	1:A:33:PRO:HD2	1:A:32:VAL:HG13	13	0.49
(1,426)	1:A:8:LEU:HD21	1:A:6:GLN:HG3	18	0.49
(1,426)	1:A:8:LEU:HD22	1:A:6:GLN:HG3	18	0.49
(1,426)	1:A:8:LEU:HD23	1:A:6:GLN:HG3	18	0.49
(1,268)	1:A:24:CYS:HB3	1:A:24:CYS:H	17	0.49
(1,21)	1:A:27:LEU:HD21	1:A:28:SER:H	6	0.49
(1,21)	1:A:27:LEU:HD22	1:A:28:SER:H	6	0.49
(1,21)	1:A:27:LEU:HD23	1:A:28:SER:H	6	0.49
(1,162)	1:A:52:VAL:HG11	1:A:61:CYS:H	11	0.49
(1,162)	1:A:52:VAL:HG12	1:A:61:CYS:H	11	0.49
(1,162)	1:A:52:VAL:HG13	1:A:61:CYS:H	11	0.49
(1,140)	1:A:44:LEU:HB2	1:A:45:ARG:H	2	0.49
(1,128)	1:A:11:CYS:HB3	1:A:12:ALA:H	8	0.49
(1,10)	1:A:9:GLU:HB2	1:A:10:SER:H	3	0.49
(1,10)	1:A:9:GLU:HB2	1:A:10:SER:H	10	0.49
(1,1)	1:A:21:LYS:HG3	1:A:21:LYS:H	6	0.49
(1,448)	1:A:25:ARG:HG3	1:A:11:CYS:HB3	20	0.48
(1,438)	1:A:33:PRO:HD3	1:A:32:VAL:HG11	12	0.48
(1,438)	1:A:33:PRO:HD3	1:A:32:VAL:HG12	12	0.48
(1,438)	1:A:33:PRO:HD3	1:A:32:VAL:HG13	12	0.48
(1,438)	1:A:33:PRO:HD2	1:A:32:VAL:HG11	12	0.48
(1,438)	1:A:33:PRO:HD2	1:A:32:VAL:HG12	12	0.48
(1,438)	1:A:33:PRO:HD2	1:A:32:VAL:HG13	12	0.48
(1,264)	1:A:58:ASN:HB3	1:A:58:ASN:H	6	0.48
(1,233)	1:A:8:LEU:HB3	1:A:8:LEU:H	11	0.48
(1,164)	1:A:15:GLU:HG3	1:A:18:ASN:H	11	0.48
(1,126)	1:A:11:CYS:HB2	1:A:12:ALA:H	5	0.48
(1,126)	1:A:11:CYS:HB2	1:A:12:ALA:H	10	0.48
(1,101)	1:A:13:CYS:HB2	1:A:15:GLU:H	20	0.48
(1,10)	1:A:9:GLU:HB2	1:A:10:SER:H	4	0.48
(1,90)	1:A:32:VAL:HG21	1:A:24:CYS:H	8	0.47
(1,90)	1:A:32:VAL:HG22	1:A:24:CYS:H	8	0.47
(1,90)	1:A:32:VAL:HG23	1:A:24:CYS:H	8	0.47
(1,86)	1:A:23:CYS:HB2	1:A:24:CYS:H	1	0.47
(1,86)	1:A:23:CYS:HB2	1:A:24:CYS:H	12	0.47
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG11	14	0.47
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG12	14	0.47
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG13	14	0.47
(1,426)	1:A:8:LEU:HD21	1:A:6:GLN:HG3	3	0.47
(1,426)	1:A:8:LEU:HD22	1:A:6:GLN:HG3	3	0.47
(1,426)	1:A:8:LEU:HD23	1:A:6:GLN:HG3	3	0.47
(1,422)	1:A:8:LEU:HD21	1:A:6:GLN:HB2	2	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,422)	1:A:8:LEU:HD22	1:A:6:GLN:HB2	2	0.47
(1,422)	1:A:8:LEU:HD23	1:A:6:GLN:HB2	2	0.47
(1,411)	1:A:47:GLY:HA2	1:A:54:PHE:HB3	7	0.47
(1,285)	1:A:26:ASP:HB2	1:A:26:ASP:H	5	0.47
(1,264)	1:A:58:ASN:HB3	1:A:58:ASN:H	19	0.47
(1,141)	1:A:40:LYS:HB3	1:A:41:ASN:H	3	0.47
(1,101)	1:A:13:CYS:HB2	1:A:15:GLU:H	2	0.47
(1,101)	1:A:13:CYS:HB2	1:A:15:GLU:H	8	0.47
(1,67)	1:A:26:ASP:HB3	1:A:27:LEU:H	2	0.46
(1,56)	1:A:48:LYS:HB3	1:A:48:LYS:H	19	0.46
(1,51)	1:A:55:CYS:HB3	1:A:56:ASP:H	20	0.46
(1,447)	1:A:12:ALA:HA	1:A:23:CYS:HB3	8	0.46
(1,442)	1:A:8:LEU:HD21	1:A:6:GLN:HG2	16	0.46
(1,442)	1:A:8:LEU:HD22	1:A:6:GLN:HG2	16	0.46
(1,442)	1:A:8:LEU:HD23	1:A:6:GLN:HG2	16	0.46
(1,427)	1:A:18:ASN:HB2	1:A:13:CYS:HB3	2	0.46
(1,426)	1:A:8:LEU:HD21	1:A:6:GLN:HG3	17	0.46
(1,426)	1:A:8:LEU:HD22	1:A:6:GLN:HG3	17	0.46
(1,426)	1:A:8:LEU:HD23	1:A:6:GLN:HG3	17	0.46
(1,426)	1:A:8:LEU:HD21	1:A:6:GLN:HG3	20	0.46
(1,426)	1:A:8:LEU:HD22	1:A:6:GLN:HG3	20	0.46
(1,426)	1:A:8:LEU:HD23	1:A:6:GLN:HG3	20	0.46
(1,422)	1:A:8:LEU:HD21	1:A:6:GLN:HB2	10	0.46
(1,422)	1:A:8:LEU:HD22	1:A:6:GLN:HB2	10	0.46
(1,422)	1:A:8:LEU:HD23	1:A:6:GLN:HB2	10	0.46
(1,362)	1:A:23:CYS:HB2	1:A:32:VAL:H	13	0.46
(1,362)	1:A:23:CYS:HB2	1:A:32:VAL:H	14	0.46
(1,355)	1:A:11:CYS:HB2	1:A:25:ARG:H	20	0.46
(1,336)	1:A:62:GLU:HG3	1:A:54:PHE:H	10	0.46
(1,233)	1:A:8:LEU:HB3	1:A:8:LEU:H	1	0.46
(1,233)	1:A:8:LEU:HB3	1:A:8:LEU:H	12	0.46
(1,21)	1:A:27:LEU:HD21	1:A:28:SER:H	1	0.46
(1,21)	1:A:27:LEU:HD22	1:A:28:SER:H	1	0.46
(1,21)	1:A:27:LEU:HD23	1:A:28:SER:H	1	0.46
(1,168)	1:A:25:ARG:HG3	1:A:29:GLY:H	11	0.46
(1,164)	1:A:15:GLU:HG3	1:A:18:ASN:H	15	0.46
(1,141)	1:A:40:LYS:HB3	1:A:41:ASN:H	2	0.46
(1,126)	1:A:11:CYS:HB2	1:A:12:ALA:H	17	0.46
(1,101)	1:A:13:CYS:HB2	1:A:15:GLU:H	1	0.46
(1,96)	1:A:36:ASP:HB2	1:A:37:ALA:H	18	0.45
(1,67)	1:A:26:ASP:HB3	1:A:27:LEU:H	12	0.45
(1,63)	1:A:1:PHE:HB2	1:A:2:CYS:H	20	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,51)	1:A:55:CYS:HB3	1:A:56:ASP:H	10	0.45
(1,426)	1:A:8:LEU:HD21	1:A:6:GLN:HG3	14	0.45
(1,426)	1:A:8:LEU:HD22	1:A:6:GLN:HG3	14	0.45
(1,426)	1:A:8:LEU:HD23	1:A:6:GLN:HG3	14	0.45
(1,422)	1:A:8:LEU:HD21	1:A:6:GLN:HB2	7	0.45
(1,422)	1:A:8:LEU:HD22	1:A:6:GLN:HB2	7	0.45
(1,422)	1:A:8:LEU:HD23	1:A:6:GLN:HB2	7	0.45
(1,295)	1:A:56:ASP:HB2	1:A:56:ASP:H	19	0.45
(1,286)	1:A:23:CYS:HB3	1:A:23:CYS:H	1	0.45
(1,286)	1:A:23:CYS:HB3	1:A:23:CYS:H	5	0.45
(1,286)	1:A:23:CYS:HB3	1:A:23:CYS:H	8	0.45
(1,235)	1:A:50:CYS:HB3	1:A:50:CYS:H	18	0.45
(1,140)	1:A:44:LEU:HB2	1:A:45:ARG:H	11	0.45
(1,139)	1:A:36:ASP:HB3	1:A:37:ALA:H	7	0.45
(1,10)	1:A:9:GLU:HB2	1:A:10:SER:H	16	0.45
(1,86)	1:A:23:CYS:HB2	1:A:24:CYS:H	3	0.44
(1,67)	1:A:26:ASP:HB3	1:A:27:LEU:H	5	0.44
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG11	12	0.44
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG12	12	0.44
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG13	12	0.44
(1,446)	1:A:24:CYS:HB2	1:A:8:LEU:HD11	9	0.44
(1,446)	1:A:24:CYS:HB2	1:A:8:LEU:HD12	9	0.44
(1,446)	1:A:24:CYS:HB2	1:A:8:LEU:HD13	9	0.44
(1,446)	1:A:24:CYS:HB3	1:A:8:LEU:HD11	9	0.44
(1,446)	1:A:24:CYS:HB3	1:A:8:LEU:HD12	9	0.44
(1,446)	1:A:24:CYS:HB3	1:A:8:LEU:HD13	9	0.44
(1,442)	1:A:8:LEU:HD21	1:A:6:GLN:HG2	20	0.44
(1,442)	1:A:8:LEU:HD22	1:A:6:GLN:HG2	20	0.44
(1,442)	1:A:8:LEU:HD23	1:A:6:GLN:HG2	20	0.44
(1,286)	1:A:23:CYS:HB3	1:A:23:CYS:H	10	0.44
(1,286)	1:A:23:CYS:HB3	1:A:23:CYS:H	15	0.44
(1,286)	1:A:23:CYS:HB3	1:A:23:CYS:H	20	0.44
(1,264)	1:A:58:ASN:HB3	1:A:58:ASN:H	8	0.44
(1,233)	1:A:8:LEU:HB3	1:A:8:LEU:H	9	0.44
(1,168)	1:A:25:ARG:HG3	1:A:29:GLY:H	12	0.44
(1,101)	1:A:13:CYS:HB2	1:A:15:GLU:H	4	0.44
(1,101)	1:A:13:CYS:HB2	1:A:15:GLU:H	19	0.44
(1,90)	1:A:32:VAL:HG21	1:A:24:CYS:H	13	0.43
(1,90)	1:A:32:VAL:HG22	1:A:24:CYS:H	13	0.43
(1,90)	1:A:32:VAL:HG23	1:A:24:CYS:H	13	0.43
(1,67)	1:A:26:ASP:HB3	1:A:27:LEU:H	4	0.43
(1,54)	1:A:62:GLU:HG3	1:A:62:GLU:H	4	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG11	9	0.43
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG12	9	0.43
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG13	9	0.43
(1,447)	1:A:12:ALA:HA	1:A:23:CYS:HB3	16	0.43
(1,426)	1:A:8:LEU:HD21	1:A:6:GLN:HG3	5	0.43
(1,426)	1:A:8:LEU:HD22	1:A:6:GLN:HG3	5	0.43
(1,426)	1:A:8:LEU:HD23	1:A:6:GLN:HG3	5	0.43
(1,362)	1:A:23:CYS:HB2	1:A:32:VAL:H	10	0.43
(1,286)	1:A:23:CYS:HB3	1:A:23:CYS:H	11	0.43
(1,286)	1:A:23:CYS:HB3	1:A:23:CYS:H	16	0.43
(1,286)	1:A:23:CYS:HB3	1:A:23:CYS:H	18	0.43
(1,233)	1:A:8:LEU:HB3	1:A:8:LEU:H	7	0.43
(1,164)	1:A:15:GLU:HG3	1:A:18:ASN:H	9	0.43
(1,162)	1:A:52:VAL:HG11	1:A:61:CYS:H	7	0.43
(1,162)	1:A:52:VAL:HG12	1:A:61:CYS:H	7	0.43
(1,162)	1:A:52:VAL:HG13	1:A:61:CYS:H	7	0.43
(1,162)	1:A:52:VAL:HG11	1:A:61:CYS:H	10	0.43
(1,162)	1:A:52:VAL:HG12	1:A:61:CYS:H	10	0.43
(1,162)	1:A:52:VAL:HG13	1:A:61:CYS:H	10	0.43
(1,141)	1:A:40:LYS:HB3	1:A:41:ASN:H	5	0.43
(1,140)	1:A:44:LEU:HB2	1:A:45:ARG:H	13	0.43
(1,86)	1:A:23:CYS:HB2	1:A:24:CYS:H	20	0.42
(1,57)	1:A:12:ALA:HA	1:A:12:ALA:H	5	0.42
(1,57)	1:A:12:ALA:HA	1:A:12:ALA:H	10	0.42
(1,57)	1:A:12:ALA:HA	1:A:12:ALA:H	17	0.42
(1,472)	1:A:20:CYS:HB3	1:A:59:GLY:HA2	19	0.42
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG11	5	0.42
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG12	5	0.42
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG13	5	0.42
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG11	6	0.42
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG12	6	0.42
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG13	6	0.42
(1,447)	1:A:12:ALA:HA	1:A:23:CYS:HB3	5	0.42
(1,444)	1:A:34:TYR:HD1	1:A:6:GLN:HG2	16	0.42
(1,411)	1:A:47:GLY:HA2	1:A:54:PHE:HB3	20	0.42
(1,362)	1:A:23:CYS:HB2	1:A:32:VAL:H	17	0.42
(1,286)	1:A:23:CYS:HB3	1:A:23:CYS:H	2	0.42
(1,286)	1:A:23:CYS:HB3	1:A:23:CYS:H	9	0.42
(1,286)	1:A:23:CYS:HB3	1:A:23:CYS:H	14	0.42
(1,141)	1:A:40:LYS:HB3	1:A:41:ASN:H	13	0.42
(1,86)	1:A:23:CYS:HB2	1:A:24:CYS:H	4	0.41
(1,86)	1:A:23:CYS:HB2	1:A:24:CYS:H	16	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,70)	1:A:26:ASP:HB2	1:A:27:LEU:H	11	0.41
(1,57)	1:A:12:ALA:HA	1:A:12:ALA:H	2	0.41
(1,57)	1:A:12:ALA:HA	1:A:12:ALA:H	3	0.41
(1,57)	1:A:12:ALA:HA	1:A:12:ALA:H	6	0.41
(1,57)	1:A:12:ALA:HA	1:A:12:ALA:H	7	0.41
(1,57)	1:A:12:ALA:HA	1:A:12:ALA:H	8	0.41
(1,57)	1:A:12:ALA:HA	1:A:12:ALA:H	11	0.41
(1,57)	1:A:12:ALA:HA	1:A:12:ALA:H	12	0.41
(1,57)	1:A:12:ALA:HA	1:A:12:ALA:H	13	0.41
(1,57)	1:A:12:ALA:HA	1:A:12:ALA:H	14	0.41
(1,57)	1:A:12:ALA:HA	1:A:12:ALA:H	15	0.41
(1,57)	1:A:12:ALA:HA	1:A:12:ALA:H	16	0.41
(1,57)	1:A:12:ALA:HA	1:A:12:ALA:H	18	0.41
(1,57)	1:A:12:ALA:HA	1:A:12:ALA:H	19	0.41
(1,57)	1:A:12:ALA:HA	1:A:12:ALA:H	20	0.41
(1,442)	1:A:8:LEU:HD21	1:A:6:GLN:HG2	3	0.41
(1,442)	1:A:8:LEU:HD22	1:A:6:GLN:HG2	3	0.41
(1,442)	1:A:8:LEU:HD23	1:A:6:GLN:HG2	3	0.41
(1,362)	1:A:23:CYS:HB2	1:A:32:VAL:H	16	0.41
(1,286)	1:A:23:CYS:HB3	1:A:23:CYS:H	12	0.41
(1,286)	1:A:23:CYS:HB3	1:A:23:CYS:H	17	0.41
(1,23)	1:A:5:GLU:HG3	1:A:5:GLU:H	2	0.41
(1,128)	1:A:11:CYS:HB3	1:A:12:ALA:H	11	0.41
(1,10)	1:A:9:GLU:HB2	1:A:10:SER:H	18	0.41
(1,90)	1:A:32:VAL:HG21	1:A:24:CYS:H	1	0.4
(1,90)	1:A:32:VAL:HG22	1:A:24:CYS:H	1	0.4
(1,90)	1:A:32:VAL:HG23	1:A:24:CYS:H	1	0.4
(1,57)	1:A:12:ALA:HA	1:A:12:ALA:H	1	0.4
(1,57)	1:A:12:ALA:HA	1:A:12:ALA:H	4	0.4
(1,57)	1:A:12:ALA:HA	1:A:12:ALA:H	9	0.4
(1,54)	1:A:62:GLU:HG3	1:A:62:GLU:H	5	0.4
(1,51)	1:A:55:CYS:HB3	1:A:56:ASP:H	5	0.4
(1,446)	1:A:24:CYS:HB2	1:A:8:LEU:HD11	1	0.4
(1,446)	1:A:24:CYS:HB2	1:A:8:LEU:HD12	1	0.4
(1,446)	1:A:24:CYS:HB2	1:A:8:LEU:HD13	1	0.4
(1,446)	1:A:24:CYS:HB3	1:A:8:LEU:HD11	1	0.4
(1,446)	1:A:24:CYS:HB3	1:A:8:LEU:HD12	1	0.4
(1,446)	1:A:24:CYS:HB3	1:A:8:LEU:HD13	1	0.4
(1,442)	1:A:8:LEU:HD21	1:A:6:GLN:HG2	5	0.4
(1,442)	1:A:8:LEU:HD22	1:A:6:GLN:HG2	5	0.4
(1,442)	1:A:8:LEU:HD23	1:A:6:GLN:HG2	5	0.4
(1,426)	1:A:8:LEU:HD21	1:A:6:GLN:HG3	13	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,426)	1:A:8:LEU:HD22	1:A:6:GLN:HG3	13	0.4
(1,426)	1:A:8:LEU:HD23	1:A:6:GLN:HG3	13	0.4
(1,416)	1:A:34:TYR:HD1	1:A:36:ASP:HB2	3	0.4
(1,416)	1:A:34:TYR:HD2	1:A:36:ASP:HB2	3	0.4
(1,41)	1:A:4:ARG:HG2	1:A:5:GLU:H	4	0.4
(1,33)	1:A:14:ASN:HB3	1:A:14:ASN:H	15	0.4
(1,286)	1:A:23:CYS:HB3	1:A:23:CYS:H	3	0.4
(1,286)	1:A:23:CYS:HB3	1:A:23:CYS:H	19	0.4
(1,233)	1:A:8:LEU:HB3	1:A:8:LEU:H	2	0.4
(1,233)	1:A:8:LEU:HB3	1:A:8:LEU:H	5	0.4
(1,233)	1:A:8:LEU:HB3	1:A:8:LEU:H	8	0.4
(1,233)	1:A:8:LEU:HB3	1:A:8:LEU:H	17	0.4
(1,202)	1:A:29:GLY:HA3	1:A:28:SER:H	14	0.4
(1,202)	1:A:29:GLY:HA3	1:A:28:SER:H	19	0.4
(1,162)	1:A:52:VAL:HG11	1:A:61:CYS:H	15	0.4
(1,162)	1:A:52:VAL:HG12	1:A:61:CYS:H	15	0.4
(1,162)	1:A:52:VAL:HG13	1:A:61:CYS:H	15	0.4
(1,140)	1:A:44:LEU:HB2	1:A:45:ARG:H	12	0.4
(1,140)	1:A:44:LEU:HB2	1:A:45:ARG:H	18	0.4
(1,416)	1:A:34:TYR:HD1	1:A:36:ASP:HB2	6	0.39
(1,416)	1:A:34:TYR:HD2	1:A:36:ASP:HB2	6	0.39
(1,362)	1:A:23:CYS:HB2	1:A:32:VAL:H	5	0.39
(1,362)	1:A:23:CYS:HB2	1:A:32:VAL:H	18	0.39
(1,33)	1:A:14:ASN:HB3	1:A:14:ASN:H	8	0.39
(1,233)	1:A:8:LEU:HB3	1:A:8:LEU:H	20	0.39
(1,19)	1:A:25:ARG:HB3	1:A:26:ASP:H	20	0.39
(1,162)	1:A:52:VAL:HG11	1:A:61:CYS:H	8	0.39
(1,162)	1:A:52:VAL:HG12	1:A:61:CYS:H	8	0.39
(1,162)	1:A:52:VAL:HG13	1:A:61:CYS:H	8	0.39
(1,16)	1:A:3:GLU:HG2	1:A:4:ARG:H	20	0.39
(1,117)	1:A:57:MET:HB3	1:A:58:ASN:H	11	0.39
(1,101)	1:A:13:CYS:HB2	1:A:15:GLU:H	12	0.39
(1,94)	1:A:55:CYS:HB2	1:A:48:LYS:H	4	0.38
(1,67)	1:A:26:ASP:HB3	1:A:27:LEU:H	8	0.38
(1,445)	1:A:26:ASP:HB2	1:A:32:VAL:HG21	6	0.38
(1,445)	1:A:26:ASP:HB2	1:A:32:VAL:HG22	6	0.38
(1,445)	1:A:26:ASP:HB2	1:A:32:VAL:HG23	6	0.38
(1,416)	1:A:34:TYR:HD1	1:A:36:ASP:HB2	13	0.38
(1,416)	1:A:34:TYR:HD2	1:A:36:ASP:HB2	13	0.38
(1,33)	1:A:14:ASN:HB3	1:A:14:ASN:H	3	0.38
(1,30)	1:A:57:MET:HG3	1:A:57:MET:H	8	0.38
(1,286)	1:A:23:CYS:HB3	1:A:23:CYS:H	6	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,286)	1:A:23:CYS:HB3	1:A:23:CYS:H	7	0.38
(1,285)	1:A:26:ASP:HB2	1:A:26:ASP:H	16	0.38
(1,235)	1:A:50:CYS:HB3	1:A:50:CYS:H	13	0.38
(1,233)	1:A:8:LEU:HB3	1:A:8:LEU:H	10	0.38
(1,233)	1:A:8:LEU:HB3	1:A:8:LEU:H	15	0.38
(1,202)	1:A:29:GLY:HA3	1:A:28:SER:H	4	0.38
(1,162)	1:A:52:VAL:HG11	1:A:61:CYS:H	3	0.38
(1,162)	1:A:52:VAL:HG12	1:A:61:CYS:H	3	0.38
(1,162)	1:A:52:VAL:HG13	1:A:61:CYS:H	3	0.38
(1,140)	1:A:44:LEU:HB2	1:A:45:ARG:H	5	0.38
(1,128)	1:A:11:CYS:HB3	1:A:12:ALA:H	16	0.38
(1,117)	1:A:57:MET:HB3	1:A:58:ASN:H	16	0.38
(1,67)	1:A:26:ASP:HB3	1:A:27:LEU:H	1	0.37
(1,67)	1:A:26:ASP:HB3	1:A:27:LEU:H	7	0.37
(1,55)	1:A:25:ARG:HD3	1:A:25:ARG:H	6	0.37
(1,442)	1:A:8:LEU:HD21	1:A:6:GLN:HG2	13	0.37
(1,442)	1:A:8:LEU:HD22	1:A:6:GLN:HG2	13	0.37
(1,442)	1:A:8:LEU:HD23	1:A:6:GLN:HG2	13	0.37
(1,416)	1:A:34:TYR:HD1	1:A:36:ASP:HB2	10	0.37
(1,416)	1:A:34:TYR:HD2	1:A:36:ASP:HB2	10	0.37
(1,416)	1:A:34:TYR:HD1	1:A:36:ASP:HB2	16	0.37
(1,416)	1:A:34:TYR:HD2	1:A:36:ASP:HB2	16	0.37
(1,202)	1:A:29:GLY:HA3	1:A:28:SER:H	2	0.37
(1,202)	1:A:29:GLY:HA3	1:A:28:SER:H	13	0.37
(1,202)	1:A:29:GLY:HA3	1:A:28:SER:H	17	0.37
(1,141)	1:A:40:LYS:HB3	1:A:41:ASN:H	9	0.37
(1,128)	1:A:11:CYS:HB3	1:A:12:ALA:H	13	0.37
(1,101)	1:A:13:CYS:HB2	1:A:15:GLU:H	16	0.37
(1,90)	1:A:32:VAL:HG21	1:A:24:CYS:H	11	0.36
(1,90)	1:A:32:VAL:HG22	1:A:24:CYS:H	11	0.36
(1,90)	1:A:32:VAL:HG23	1:A:24:CYS:H	11	0.36
(1,86)	1:A:23:CYS:HB2	1:A:24:CYS:H	13	0.36
(1,67)	1:A:26:ASP:HB3	1:A:27:LEU:H	13	0.36
(1,51)	1:A:55:CYS:HB3	1:A:56:ASP:H	16	0.36
(1,434)	1:A:22:VAL:HB	1:A:42:LEU:HD11	4	0.36
(1,434)	1:A:22:VAL:HB	1:A:42:LEU:HD12	4	0.36
(1,434)	1:A:22:VAL:HB	1:A:42:LEU:HD13	4	0.36
(1,402)	1:A:2:CYS:HB2	1:A:3:GLU:H	7	0.36
(1,33)	1:A:14:ASN:HB3	1:A:14:ASN:H	11	0.36
(1,30)	1:A:57:MET:HG3	1:A:57:MET:H	4	0.36
(1,286)	1:A:23:CYS:HB3	1:A:23:CYS:H	4	0.36
(1,286)	1:A:23:CYS:HB3	1:A:23:CYS:H	13	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,233)	1:A:8:LEU:HB3	1:A:8:LEU:H	18	0.36
(1,202)	1:A:29:GLY:HA3	1:A:28:SER:H	5	0.36
(1,202)	1:A:29:GLY:HA3	1:A:28:SER:H	9	0.36
(1,67)	1:A:26:ASP:HB3	1:A:27:LEU:H	10	0.35
(1,67)	1:A:26:ASP:HB3	1:A:27:LEU:H	20	0.35
(1,446)	1:A:24:CYS:HB2	1:A:8:LEU:HD11	8	0.35
(1,446)	1:A:24:CYS:HB2	1:A:8:LEU:HD12	8	0.35
(1,446)	1:A:24:CYS:HB2	1:A:8:LEU:HD13	8	0.35
(1,446)	1:A:24:CYS:HB3	1:A:8:LEU:HD11	8	0.35
(1,446)	1:A:24:CYS:HB3	1:A:8:LEU:HD12	8	0.35
(1,446)	1:A:24:CYS:HB3	1:A:8:LEU:HD13	8	0.35
(1,416)	1:A:34:TYR:HD1	1:A:36:ASP:HB2	1	0.35
(1,416)	1:A:34:TYR:HD2	1:A:36:ASP:HB2	1	0.35
(1,416)	1:A:34:TYR:HD1	1:A:36:ASP:HB2	2	0.35
(1,416)	1:A:34:TYR:HD2	1:A:36:ASP:HB2	2	0.35
(1,411)	1:A:47:GLY:HA2	1:A:54:PHE:HB3	11	0.35
(1,359)	1:A:60:LYS:HB2	1:A:61:CYS:H	2	0.35
(1,359)	1:A:60:LYS:HB2	1:A:61:CYS:H	6	0.35
(1,336)	1:A:62:GLU:HG3	1:A:54:PHE:H	20	0.35
(1,233)	1:A:8:LEU:HB3	1:A:8:LEU:H	3	0.35
(1,140)	1:A:44:LEU:HB2	1:A:45:ARG:H	3	0.35
(1,128)	1:A:11:CYS:HB3	1:A:12:ALA:H	14	0.35
(1,101)	1:A:13:CYS:HB2	1:A:15:GLU:H	5	0.35
(1,96)	1:A:36:ASP:HB2	1:A:37:ALA:H	5	0.34
(1,91)	1:A:3:GLU:HB3	1:A:4:ARG:H	2	0.34
(1,67)	1:A:26:ASP:HB3	1:A:27:LEU:H	17	0.34
(1,56)	1:A:48:LYS:HB3	1:A:48:LYS:H	18	0.34
(1,447)	1:A:12:ALA:HA	1:A:23:CYS:HB3	9	0.34
(1,447)	1:A:12:ALA:HA	1:A:23:CYS:HB3	17	0.34
(1,44)	1:A:13:CYS:HB3	1:A:13:CYS:H	7	0.34
(1,44)	1:A:13:CYS:HB3	1:A:13:CYS:H	17	0.34
(1,437)	1:A:1:PHE:HA	1:A:5:GLU:HG3	6	0.34
(1,233)	1:A:8:LEU:HB3	1:A:8:LEU:H	14	0.34
(1,22)	1:A:40:LYS:HG2	1:A:41:ASN:H	1	0.34
(1,202)	1:A:29:GLY:HA3	1:A:28:SER:H	6	0.34
(1,202)	1:A:29:GLY:HA3	1:A:28:SER:H	10	0.34
(1,202)	1:A:29:GLY:HA3	1:A:28:SER:H	11	0.34
(1,202)	1:A:29:GLY:HA3	1:A:28:SER:H	16	0.34
(1,202)	1:A:29:GLY:HA3	1:A:28:SER:H	18	0.34
(1,162)	1:A:52:VAL:HG11	1:A:61:CYS:H	12	0.34
(1,162)	1:A:52:VAL:HG12	1:A:61:CYS:H	12	0.34
(1,162)	1:A:52:VAL:HG13	1:A:61:CYS:H	12	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,94)	1:A:55:CYS:HB2	1:A:48:LYS:H	11	0.33
(1,94)	1:A:55:CYS:HB2	1:A:48:LYS:H	13	0.33
(1,51)	1:A:55:CYS:HB3	1:A:56:ASP:H	2	0.33
(1,447)	1:A:12:ALA:HA	1:A:23:CYS:HB3	18	0.33
(1,447)	1:A:12:ALA:HA	1:A:23:CYS:HB3	19	0.33
(1,233)	1:A:8:LEU:HB3	1:A:8:LEU:H	13	0.33
(1,233)	1:A:8:LEU:HB3	1:A:8:LEU:H	16	0.33
(1,202)	1:A:29:GLY:HA3	1:A:28:SER:H	3	0.33
(1,202)	1:A:29:GLY:HA3	1:A:28:SER:H	20	0.33
(1,171)	1:A:18:ASN:HB2	1:A:13:CYS:H	17	0.33
(1,171)	1:A:18:ASN:HB2	1:A:13:CYS:H	18	0.33
(1,128)	1:A:11:CYS:HB3	1:A:12:ALA:H	7	0.33
(1,128)	1:A:11:CYS:HB3	1:A:12:ALA:H	12	0.33
(1,101)	1:A:13:CYS:HB2	1:A:15:GLU:H	13	0.33
(1,94)	1:A:55:CYS:HB2	1:A:48:LYS:H	8	0.32
(1,91)	1:A:3:GLU:HB3	1:A:4:ARG:H	18	0.32
(1,86)	1:A:23:CYS:HB2	1:A:24:CYS:H	8	0.32
(1,86)	1:A:23:CYS:HB2	1:A:24:CYS:H	19	0.32
(1,67)	1:A:26:ASP:HB3	1:A:27:LEU:H	15	0.32
(1,67)	1:A:26:ASP:HB3	1:A:27:LEU:H	19	0.32
(1,56)	1:A:48:LYS:HB3	1:A:48:LYS:H	12	0.32
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG11	11	0.32
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG12	11	0.32
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG13	11	0.32
(1,448)	1:A:25:ARG:HG3	1:A:11:CYS:HB3	18	0.32
(1,416)	1:A:34:TYR:HD1	1:A:36:ASP:HB2	4	0.32
(1,416)	1:A:34:TYR:HD2	1:A:36:ASP:HB2	4	0.32
(1,359)	1:A:60:LYS:HB2	1:A:61:CYS:H	1	0.32
(1,30)	1:A:57:MET:HG3	1:A:57:MET:H	9	0.32
(1,299)	1:A:44:LEU:HA	1:A:44:LEU:H	19	0.32
(1,295)	1:A:56:ASP:HB2	1:A:56:ASP:H	7	0.32
(1,273)	1:A:43:PHE:HB2	1:A:43:PHE:H	10	0.32
(1,202)	1:A:29:GLY:HA3	1:A:28:SER:H	1	0.32
(1,202)	1:A:29:GLY:HA3	1:A:28:SER:H	7	0.32
(1,202)	1:A:29:GLY:HA3	1:A:28:SER:H	12	0.32
(1,171)	1:A:18:ASN:HB2	1:A:13:CYS:H	8	0.32
(1,171)	1:A:18:ASN:HB2	1:A:13:CYS:H	14	0.32
(1,67)	1:A:26:ASP:HB3	1:A:27:LEU:H	9	0.31
(1,48)	1:A:25:ARG:HB3	1:A:25:ARG:H	12	0.31
(1,44)	1:A:13:CYS:HB3	1:A:13:CYS:H	1	0.31
(1,44)	1:A:13:CYS:HB3	1:A:13:CYS:H	3	0.31
(1,44)	1:A:13:CYS:HB3	1:A:13:CYS:H	13	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,44)	1:A:13:CYS:HB3	1:A:13:CYS:H	20	0.31
(1,422)	1:A:8:LEU:HD21	1:A:6:GLN:HB2	14	0.31
(1,422)	1:A:8:LEU:HD22	1:A:6:GLN:HB2	14	0.31
(1,422)	1:A:8:LEU:HD23	1:A:6:GLN:HB2	14	0.31
(1,416)	1:A:34:TYR:HD1	1:A:36:ASP:HB2	17	0.31
(1,416)	1:A:34:TYR:HD2	1:A:36:ASP:HB2	17	0.31
(1,210)	1:A:38:GLU:HB3	1:A:39:GLN:H	8	0.31
(1,202)	1:A:29:GLY:HA3	1:A:28:SER:H	15	0.31
(1,18)	1:A:55:CYS:HA	1:A:55:CYS:H	13	0.31
(1,18)	1:A:55:CYS:HA	1:A:55:CYS:H	19	0.31
(1,44)	1:A:13:CYS:HB3	1:A:13:CYS:H	5	0.3
(1,44)	1:A:13:CYS:HB3	1:A:13:CYS:H	6	0.3
(1,44)	1:A:13:CYS:HB3	1:A:13:CYS:H	10	0.3
(1,44)	1:A:13:CYS:HB3	1:A:13:CYS:H	11	0.3
(1,425)	1:A:34:TYR:HD1	1:A:36:ASP:HB3	7	0.3
(1,422)	1:A:8:LEU:HD21	1:A:6:GLN:HB2	16	0.3
(1,422)	1:A:8:LEU:HD22	1:A:6:GLN:HB2	16	0.3
(1,422)	1:A:8:LEU:HD23	1:A:6:GLN:HB2	16	0.3
(1,30)	1:A:57:MET:HG3	1:A:57:MET:H	12	0.3
(1,299)	1:A:44:LEU:HA	1:A:44:LEU:H	1	0.3
(1,275)	1:A:36:ASP:HB2	1:A:36:ASP:H	7	0.3
(1,22)	1:A:40:LYS:HG2	1:A:41:ASN:H	5	0.3
(1,139)	1:A:36:ASP:HB3	1:A:37:ALA:H	8	0.3
(1,139)	1:A:36:ASP:HB3	1:A:37:ALA:H	11	0.3
(1,139)	1:A:36:ASP:HB3	1:A:37:ALA:H	12	0.3
(1,117)	1:A:57:MET:HB3	1:A:58:ASN:H	1	0.3
(1,101)	1:A:13:CYS:HB2	1:A:15:GLU:H	6	0.3
(1,91)	1:A:3:GLU:HB3	1:A:4:ARG:H	19	0.29
(1,440)	1:A:26:ASP:HB3	1:A:32:VAL:HG21	16	0.29
(1,440)	1:A:26:ASP:HB3	1:A:32:VAL:HG22	16	0.29
(1,440)	1:A:26:ASP:HB3	1:A:32:VAL:HG23	16	0.29
(1,44)	1:A:13:CYS:HB3	1:A:13:CYS:H	8	0.29
(1,44)	1:A:13:CYS:HB3	1:A:13:CYS:H	16	0.29
(1,44)	1:A:13:CYS:HB3	1:A:13:CYS:H	18	0.29
(1,44)	1:A:13:CYS:HB3	1:A:13:CYS:H	19	0.29
(1,422)	1:A:8:LEU:HD21	1:A:6:GLN:HB2	17	0.29
(1,422)	1:A:8:LEU:HD22	1:A:6:GLN:HB2	17	0.29
(1,422)	1:A:8:LEU:HD23	1:A:6:GLN:HB2	17	0.29
(1,422)	1:A:8:LEU:HD21	1:A:6:GLN:HB2	20	0.29
(1,422)	1:A:8:LEU:HD22	1:A:6:GLN:HB2	20	0.29
(1,422)	1:A:8:LEU:HD23	1:A:6:GLN:HB2	20	0.29
(1,362)	1:A:23:CYS:HB2	1:A:32:VAL:H	4	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,359)	1:A:60:LYS:HB2	1:A:61:CYS:H	11	0.29
(1,336)	1:A:62:GLU:HG3	1:A:54:PHE:H	5	0.29
(1,235)	1:A:50:CYS:HB3	1:A:50:CYS:H	17	0.29
(1,233)	1:A:8:LEU:HB3	1:A:8:LEU:H	4	0.29
(1,223)	1:A:7:GLN:HA	1:A:6:GLN:H	3	0.29
(1,22)	1:A:40:LYS:HG2	1:A:41:ASN:H	6	0.29
(1,202)	1:A:29:GLY:HA3	1:A:28:SER:H	8	0.29
(1,171)	1:A:18:ASN:HB2	1:A:13:CYS:H	1	0.29
(1,171)	1:A:18:ASN:HB2	1:A:13:CYS:H	6	0.29
(1,171)	1:A:18:ASN:HB2	1:A:13:CYS:H	12	0.29
(1,141)	1:A:40:LYS:HB3	1:A:41:ASN:H	7	0.29
(1,128)	1:A:11:CYS:HB3	1:A:12:ALA:H	6	0.29
(1,101)	1:A:13:CYS:HB2	1:A:15:GLU:H	9	0.29
(1,101)	1:A:13:CYS:HB2	1:A:15:GLU:H	10	0.29
(1,86)	1:A:23:CYS:HB2	1:A:24:CYS:H	9	0.28
(1,67)	1:A:26:ASP:HB3	1:A:27:LEU:H	14	0.28
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG11	2	0.28
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG12	2	0.28
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG13	2	0.28
(1,448)	1:A:25:ARG:HG3	1:A:11:CYS:HB3	15	0.28
(1,447)	1:A:12:ALA:HA	1:A:23:CYS:HB3	12	0.28
(1,44)	1:A:13:CYS:HB3	1:A:13:CYS:H	9	0.28
(1,422)	1:A:8:LEU:HD21	1:A:6:GLN:HB2	3	0.28
(1,422)	1:A:8:LEU:HD22	1:A:6:GLN:HB2	3	0.28
(1,422)	1:A:8:LEU:HD23	1:A:6:GLN:HB2	3	0.28
(1,38)	1:A:19:SER:HA	1:A:19:SER:H	6	0.28
(1,38)	1:A:19:SER:HA	1:A:19:SER:H	12	0.28
(1,25)	1:A:38:GLU:HG3	1:A:38:GLU:H	5	0.28
(1,18)	1:A:55:CYS:HA	1:A:55:CYS:H	12	0.28
(1,171)	1:A:18:ASN:HB2	1:A:13:CYS:H	19	0.28
(1,171)	1:A:18:ASN:HB2	1:A:13:CYS:H	20	0.28
(1,137)	1:A:26:ASP:H	1:A:27:LEU:H	6	0.28
(1,128)	1:A:11:CYS:HB3	1:A:12:ALA:H	19	0.28
(1,94)	1:A:55:CYS:HB2	1:A:48:LYS:H	3	0.27
(1,91)	1:A:3:GLU:HB3	1:A:4:ARG:H	1	0.27
(1,67)	1:A:26:ASP:HB3	1:A:27:LEU:H	18	0.27
(1,44)	1:A:13:CYS:HB3	1:A:13:CYS:H	12	0.27
(1,359)	1:A:60:LYS:HB2	1:A:61:CYS:H	4	0.27
(1,299)	1:A:44:LEU:HA	1:A:44:LEU:H	3	0.27
(1,299)	1:A:44:LEU:HA	1:A:44:LEU:H	9	0.27
(1,299)	1:A:44:LEU:HA	1:A:44:LEU:H	10	0.27
(1,18)	1:A:55:CYS:HA	1:A:55:CYS:H	1	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,18)	1:A:55:CYS:HA	1:A:55:CYS:H	17	0.27
(1,171)	1:A:18:ASN:HB2	1:A:13:CYS:H	13	0.27
(1,171)	1:A:18:ASN:HB2	1:A:13:CYS:H	16	0.27
(1,137)	1:A:26:ASP:H	1:A:27:LEU:H	16	0.27
(1,128)	1:A:11:CYS:HB3	1:A:12:ALA:H	1	0.27
(1,117)	1:A:57:MET:HB3	1:A:58:ASN:H	2	0.27
(1,11)	1:A:30:ARG:HD3	1:A:30:ARG:H	19	0.27
(1,1)	1:A:21:LYS:HG3	1:A:21:LYS:H	5	0.27
(1,96)	1:A:36:ASP:HB2	1:A:37:ALA:H	9	0.26
(1,96)	1:A:36:ASP:HB2	1:A:37:ALA:H	19	0.26
(1,75)	1:A:2:CYS:HB3	1:A:3:GLU:H	12	0.26
(1,440)	1:A:26:ASP:HB3	1:A:32:VAL:HG21	2	0.26
(1,440)	1:A:26:ASP:HB3	1:A:32:VAL:HG22	2	0.26
(1,440)	1:A:26:ASP:HB3	1:A:32:VAL:HG23	2	0.26
(1,440)	1:A:26:ASP:HB3	1:A:32:VAL:HG21	3	0.26
(1,440)	1:A:26:ASP:HB3	1:A:32:VAL:HG22	3	0.26
(1,440)	1:A:26:ASP:HB3	1:A:32:VAL:HG23	3	0.26
(1,44)	1:A:13:CYS:HB3	1:A:13:CYS:H	14	0.26
(1,423)	1:A:36:ASP:HA	1:A:37:ALA:HA	13	0.26
(1,38)	1:A:19:SER:HA	1:A:19:SER:H	4	0.26
(1,38)	1:A:19:SER:HA	1:A:19:SER:H	8	0.26
(1,38)	1:A:19:SER:HA	1:A:19:SER:H	9	0.26
(1,38)	1:A:19:SER:HA	1:A:19:SER:H	10	0.26
(1,38)	1:A:19:SER:HA	1:A:19:SER:H	16	0.26
(1,374)	1:A:53:GLY:HA3	1:A:53:GLY:H	1	0.26
(1,299)	1:A:44:LEU:HA	1:A:44:LEU:H	5	0.26
(1,299)	1:A:44:LEU:HA	1:A:44:LEU:H	8	0.26
(1,244)	1:A:43:PHE:HB3	1:A:43:PHE:H	14	0.26
(1,18)	1:A:55:CYS:HA	1:A:55:CYS:H	2	0.26
(1,18)	1:A:55:CYS:HA	1:A:55:CYS:H	4	0.26
(1,18)	1:A:55:CYS:HA	1:A:55:CYS:H	11	0.26
(1,18)	1:A:55:CYS:HA	1:A:55:CYS:H	16	0.26
(1,18)	1:A:55:CYS:HA	1:A:55:CYS:H	18	0.26
(1,18)	1:A:55:CYS:HA	1:A:55:CYS:H	20	0.26
(1,139)	1:A:36:ASP:HB3	1:A:37:ALA:H	1	0.26
(1,91)	1:A:3:GLU:HB3	1:A:4:ARG:H	12	0.25
(1,86)	1:A:23:CYS:HB2	1:A:24:CYS:H	6	0.25
(1,465)	1:A:61:CYS:HB3	1:A:16:THR:HG21	19	0.25
(1,465)	1:A:61:CYS:HB3	1:A:16:THR:HG22	19	0.25
(1,465)	1:A:61:CYS:HB3	1:A:16:THR:HG23	19	0.25
(1,445)	1:A:26:ASP:HB2	1:A:32:VAL:HG21	16	0.25
(1,445)	1:A:26:ASP:HB2	1:A:32:VAL:HG22	16	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,445)	1:A:26:ASP:HB2	1:A:32:VAL:HG23	16	0.25
(1,44)	1:A:13:CYS:HB3	1:A:13:CYS:H	2	0.25
(1,44)	1:A:13:CYS:HB3	1:A:13:CYS:H	15	0.25
(1,423)	1:A:36:ASP:HA	1:A:37:ALA:HA	8	0.25
(1,423)	1:A:36:ASP:HA	1:A:37:ALA:HA	14	0.25
(1,416)	1:A:34:TYR:HD1	1:A:36:ASP:HB2	12	0.25
(1,416)	1:A:34:TYR:HD2	1:A:36:ASP:HB2	12	0.25
(1,38)	1:A:19:SER:HA	1:A:19:SER:H	2	0.25
(1,38)	1:A:19:SER:HA	1:A:19:SER:H	3	0.25
(1,38)	1:A:19:SER:HA	1:A:19:SER:H	7	0.25
(1,38)	1:A:19:SER:HA	1:A:19:SER:H	11	0.25
(1,38)	1:A:19:SER:HA	1:A:19:SER:H	14	0.25
(1,38)	1:A:19:SER:HA	1:A:19:SER:H	20	0.25
(1,374)	1:A:53:GLY:HA3	1:A:53:GLY:H	4	0.25
(1,310)	1:A:32:VAL:HA	1:A:32:VAL:H	2	0.25
(1,299)	1:A:44:LEU:HA	1:A:44:LEU:H	13	0.25
(1,299)	1:A:44:LEU:HA	1:A:44:LEU:H	17	0.25
(1,285)	1:A:26:ASP:HB2	1:A:26:ASP:H	6	0.25
(1,250)	1:A:28:SER:HB2	1:A:28:SER:H	1	0.25
(1,205)	1:A:35:VAL:HB	1:A:39:GLN:H	12	0.25
(1,18)	1:A:55:CYS:HA	1:A:55:CYS:H	5	0.25
(1,18)	1:A:55:CYS:HA	1:A:55:CYS:H	6	0.25
(1,18)	1:A:55:CYS:HA	1:A:55:CYS:H	8	0.25
(1,18)	1:A:55:CYS:HA	1:A:55:CYS:H	9	0.25
(1,18)	1:A:55:CYS:HA	1:A:55:CYS:H	15	0.25
(1,171)	1:A:18:ASN:HB2	1:A:13:CYS:H	7	0.25
(1,16)	1:A:3:GLU:HG2	1:A:4:ARG:H	8	0.25
(1,139)	1:A:36:ASP:HB3	1:A:37:ALA:H	14	0.25
(1,137)	1:A:26:ASP:H	1:A:27:LEU:H	5	0.25
(1,11)	1:A:30:ARG:HD3	1:A:30:ARG:H	11	0.25
(1,48)	1:A:25:ARG:HB3	1:A:25:ARG:H	3	0.24
(1,448)	1:A:25:ARG:HG3	1:A:11:CYS:HB3	5	0.24
(1,426)	1:A:8:LEU:HD21	1:A:6:GLN:HG3	12	0.24
(1,426)	1:A:8:LEU:HD22	1:A:6:GLN:HG3	12	0.24
(1,426)	1:A:8:LEU:HD23	1:A:6:GLN:HG3	12	0.24
(1,423)	1:A:36:ASP:HA	1:A:37:ALA:HA	15	0.24
(1,388)	1:A:21:LYS:HA	1:A:23:CYS:H	16	0.24
(1,38)	1:A:19:SER:HA	1:A:19:SER:H	5	0.24
(1,374)	1:A:53:GLY:HA3	1:A:53:GLY:H	11	0.24
(1,359)	1:A:60:LYS:HB2	1:A:61:CYS:H	7	0.24
(1,310)	1:A:32:VAL:HA	1:A:32:VAL:H	3	0.24
(1,310)	1:A:32:VAL:HA	1:A:32:VAL:H	6	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,310)	1:A:32:VAL:HA	1:A:32:VAL:H	15	0.24
(1,299)	1:A:44:LEU:HA	1:A:44:LEU:H	12	0.24
(1,299)	1:A:44:LEU:HA	1:A:44:LEU:H	18	0.24
(1,299)	1:A:44:LEU:HA	1:A:44:LEU:H	20	0.24
(1,262)	1:A:38:GLU:HA	1:A:38:GLU:H	12	0.24
(1,262)	1:A:38:GLU:HA	1:A:38:GLU:H	18	0.24
(1,223)	1:A:7:GLN:HA	1:A:6:GLN:H	11	0.24
(1,182)	1:A:8:LEU:HG	1:A:9:GLU:H	5	0.24
(1,18)	1:A:55:CYS:HA	1:A:55:CYS:H	3	0.24
(1,18)	1:A:55:CYS:HA	1:A:55:CYS:H	7	0.24
(1,18)	1:A:55:CYS:HA	1:A:55:CYS:H	10	0.24
(1,18)	1:A:55:CYS:HA	1:A:55:CYS:H	14	0.24
(1,139)	1:A:36:ASP:HB3	1:A:37:ALA:H	15	0.24
(1,128)	1:A:11:CYS:HB3	1:A:12:ALA:H	9	0.24
(1,91)	1:A:3:GLU:HB3	1:A:4:ARG:H	16	0.23
(1,423)	1:A:36:ASP:HA	1:A:37:ALA:HA	6	0.23
(1,423)	1:A:36:ASP:HA	1:A:37:ALA:HA	17	0.23
(1,388)	1:A:21:LYS:HA	1:A:23:CYS:H	2	0.23
(1,38)	1:A:19:SER:HA	1:A:19:SER:H	17	0.23
(1,310)	1:A:32:VAL:HA	1:A:32:VAL:H	5	0.23
(1,310)	1:A:32:VAL:HA	1:A:32:VAL:H	17	0.23
(1,299)	1:A:44:LEU:HA	1:A:44:LEU:H	11	0.23
(1,299)	1:A:44:LEU:HA	1:A:44:LEU:H	15	0.23
(1,288)	1:A:35:VAL:HB	1:A:35:VAL:H	7	0.23
(1,288)	1:A:35:VAL:HB	1:A:35:VAL:H	12	0.23
(1,288)	1:A:35:VAL:HB	1:A:35:VAL:H	18	0.23
(1,262)	1:A:38:GLU:HA	1:A:38:GLU:H	20	0.23
(1,250)	1:A:28:SER:HB2	1:A:28:SER:H	8	0.23
(1,248)	1:A:15:GLU:HA	1:A:15:GLU:H	6	0.23
(1,240)	1:A:50:CYS:HB2	1:A:50:CYS:H	14	0.23
(1,171)	1:A:18:ASN:HB2	1:A:13:CYS:H	4	0.23
(1,168)	1:A:25:ARG:HG3	1:A:29:GLY:H	2	0.23
(1,139)	1:A:36:ASP:HB3	1:A:37:ALA:H	17	0.23
(1,137)	1:A:26:ASP:H	1:A:27:LEU:H	1	0.23
(1,137)	1:A:26:ASP:H	1:A:27:LEU:H	3	0.23
(1,117)	1:A:57:MET:HB3	1:A:58:ASN:H	14	0.23
(1,11)	1:A:30:ARG:HD3	1:A:30:ARG:H	8	0.23
(1,94)	1:A:55:CYS:HB2	1:A:48:LYS:H	6	0.22
(1,416)	1:A:34:TYR:HD1	1:A:36:ASP:HB2	8	0.22
(1,416)	1:A:34:TYR:HD2	1:A:36:ASP:HB2	8	0.22
(1,416)	1:A:34:TYR:HD1	1:A:36:ASP:HB2	14	0.22
(1,416)	1:A:34:TYR:HD2	1:A:36:ASP:HB2	14	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,388)	1:A:21:LYS:HA	1:A:23:CYS:H	10	0.22
(1,388)	1:A:21:LYS:HA	1:A:23:CYS:H	11	0.22
(1,38)	1:A:19:SER:HA	1:A:19:SER:H	1	0.22
(1,38)	1:A:19:SER:HA	1:A:19:SER:H	13	0.22
(1,38)	1:A:19:SER:HA	1:A:19:SER:H	18	0.22
(1,359)	1:A:60:LYS:HB2	1:A:61:CYS:H	13	0.22
(1,359)	1:A:60:LYS:HB2	1:A:61:CYS:H	16	0.22
(1,310)	1:A:32:VAL:HA	1:A:32:VAL:H	4	0.22
(1,310)	1:A:32:VAL:HA	1:A:32:VAL:H	7	0.22
(1,310)	1:A:32:VAL:HA	1:A:32:VAL:H	10	0.22
(1,310)	1:A:32:VAL:HA	1:A:32:VAL:H	13	0.22
(1,310)	1:A:32:VAL:HA	1:A:32:VAL:H	14	0.22
(1,310)	1:A:32:VAL:HA	1:A:32:VAL:H	16	0.22
(1,310)	1:A:32:VAL:HA	1:A:32:VAL:H	18	0.22
(1,299)	1:A:44:LEU:HA	1:A:44:LEU:H	6	0.22
(1,299)	1:A:44:LEU:HA	1:A:44:LEU:H	16	0.22
(1,262)	1:A:38:GLU:HA	1:A:38:GLU:H	19	0.22
(1,252)	1:A:41:ASN:HB3	1:A:41:ASN:H	10	0.22
(1,248)	1:A:15:GLU:HA	1:A:15:GLU:H	16	0.22
(1,223)	1:A:7:GLN:HA	1:A:6:GLN:H	15	0.22
(1,210)	1:A:38:GLU:HB3	1:A:39:GLN:H	5	0.22
(1,205)	1:A:35:VAL:HB	1:A:39:GLN:H	7	0.22
(1,182)	1:A:8:LEU:HG	1:A:9:GLU:H	20	0.22
(1,171)	1:A:18:ASN:HB2	1:A:13:CYS:H	3	0.22
(1,139)	1:A:36:ASP:HB3	1:A:37:ALA:H	16	0.22
(1,137)	1:A:26:ASP:H	1:A:27:LEU:H	2	0.22
(1,137)	1:A:26:ASP:H	1:A:27:LEU:H	8	0.22
(1,137)	1:A:26:ASP:H	1:A:27:LEU:H	10	0.22
(1,137)	1:A:26:ASP:H	1:A:27:LEU:H	12	0.22
(1,137)	1:A:26:ASP:H	1:A:27:LEU:H	13	0.22
(1,117)	1:A:57:MET:HB3	1:A:58:ASN:H	20	0.22
(1,48)	1:A:25:ARG:HB3	1:A:25:ARG:H	2	0.21
(1,448)	1:A:25:ARG:HG3	1:A:11:CYS:HB3	17	0.21
(1,44)	1:A:13:CYS:HB3	1:A:13:CYS:H	4	0.21
(1,423)	1:A:36:ASP:HA	1:A:37:ALA:HA	2	0.21
(1,423)	1:A:36:ASP:HA	1:A:37:ALA:HA	5	0.21
(1,423)	1:A:36:ASP:HA	1:A:37:ALA:HA	18	0.21
(1,423)	1:A:36:ASP:HA	1:A:37:ALA:HA	19	0.21
(1,423)	1:A:36:ASP:HA	1:A:37:ALA:HA	20	0.21
(1,422)	1:A:8:LEU:HD21	1:A:6:GLN:HB2	5	0.21
(1,422)	1:A:8:LEU:HD22	1:A:6:GLN:HB2	5	0.21
(1,422)	1:A:8:LEU:HD23	1:A:6:GLN:HB2	5	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,388)	1:A:21:LYS:HA	1:A:23:CYS:H	3	0.21
(1,388)	1:A:21:LYS:HA	1:A:23:CYS:H	9	0.21
(1,38)	1:A:19:SER:HA	1:A:19:SER:H	19	0.21
(1,374)	1:A:53:GLY:HA3	1:A:53:GLY:H	19	0.21
(1,353)	1:A:8:LEU:HB2	1:A:25:ARG:H	14	0.21
(1,310)	1:A:32:VAL:HA	1:A:32:VAL:H	1	0.21
(1,310)	1:A:32:VAL:HA	1:A:32:VAL:H	8	0.21
(1,310)	1:A:32:VAL:HA	1:A:32:VAL:H	9	0.21
(1,310)	1:A:32:VAL:HA	1:A:32:VAL:H	11	0.21
(1,310)	1:A:32:VAL:HA	1:A:32:VAL:H	12	0.21
(1,310)	1:A:32:VAL:HA	1:A:32:VAL:H	19	0.21
(1,310)	1:A:32:VAL:HA	1:A:32:VAL:H	20	0.21
(1,304)	1:A:43:PHE:HA	1:A:43:PHE:H	4	0.21
(1,304)	1:A:43:PHE:HA	1:A:43:PHE:H	10	0.21
(1,299)	1:A:44:LEU:HA	1:A:44:LEU:H	4	0.21
(1,299)	1:A:44:LEU:HA	1:A:44:LEU:H	7	0.21
(1,288)	1:A:35:VAL:HB	1:A:35:VAL:H	8	0.21
(1,288)	1:A:35:VAL:HB	1:A:35:VAL:H	11	0.21
(1,288)	1:A:35:VAL:HB	1:A:35:VAL:H	14	0.21
(1,288)	1:A:35:VAL:HB	1:A:35:VAL:H	19	0.21
(1,274)	1:A:36:ASP:HA	1:A:36:ASP:H	8	0.21
(1,262)	1:A:38:GLU:HA	1:A:38:GLU:H	1	0.21
(1,262)	1:A:38:GLU:HA	1:A:38:GLU:H	2	0.21
(1,262)	1:A:38:GLU:HA	1:A:38:GLU:H	14	0.21
(1,262)	1:A:38:GLU:HA	1:A:38:GLU:H	15	0.21
(1,250)	1:A:28:SER:HB2	1:A:28:SER:H	3	0.21
(1,250)	1:A:28:SER:HB2	1:A:28:SER:H	10	0.21
(1,250)	1:A:28:SER:HB2	1:A:28:SER:H	12	0.21
(1,248)	1:A:15:GLU:HA	1:A:15:GLU:H	4	0.21
(1,248)	1:A:15:GLU:HA	1:A:15:GLU:H	5	0.21
(1,248)	1:A:15:GLU:HA	1:A:15:GLU:H	12	0.21
(1,248)	1:A:15:GLU:HA	1:A:15:GLU:H	14	0.21
(1,248)	1:A:15:GLU:HA	1:A:15:GLU:H	19	0.21
(1,240)	1:A:50:CYS:HB2	1:A:50:CYS:H	4	0.21
(1,223)	1:A:7:GLN:HA	1:A:6:GLN:H	9	0.21
(1,223)	1:A:7:GLN:HA	1:A:6:GLN:H	20	0.21
(1,182)	1:A:8:LEU:HG	1:A:9:GLU:H	2	0.21
(1,172)	1:A:56:ASP:HA	1:A:48:LYS:H	7	0.21
(1,137)	1:A:26:ASP:H	1:A:27:LEU:H	7	0.21
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG11	16	0.2
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG12	16	0.2
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG13	16	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,423)	1:A:36:ASP:HA	1:A:37:ALA:HA	1	0.2
(1,423)	1:A:36:ASP:HA	1:A:37:ALA:HA	4	0.2
(1,423)	1:A:36:ASP:HA	1:A:37:ALA:HA	16	0.2
(1,416)	1:A:34:TYR:HD1	1:A:36:ASP:HB2	15	0.2
(1,416)	1:A:34:TYR:HD2	1:A:36:ASP:HB2	15	0.2
(1,41)	1:A:4:ARG:HG2	1:A:5:GLU:H	10	0.2
(1,388)	1:A:21:LYS:HA	1:A:23:CYS:H	1	0.2
(1,388)	1:A:21:LYS:HA	1:A:23:CYS:H	7	0.2
(1,38)	1:A:19:SER:HA	1:A:19:SER:H	15	0.2
(1,327)	1:A:8:LEU:HA	1:A:25:ARG:H	3	0.2
(1,323)	1:A:22:VAL:HB	1:A:34:TYR:H	3	0.2
(1,321)	1:A:25:ARG:HG3	1:A:26:ASP:H	12	0.2
(1,304)	1:A:43:PHE:HA	1:A:43:PHE:H	1	0.2
(1,304)	1:A:43:PHE:HA	1:A:43:PHE:H	5	0.2
(1,304)	1:A:43:PHE:HA	1:A:43:PHE:H	13	0.2
(1,304)	1:A:43:PHE:HA	1:A:43:PHE:H	15	0.2
(1,304)	1:A:43:PHE:HA	1:A:43:PHE:H	17	0.2
(1,30)	1:A:57:MET:HG3	1:A:57:MET:H	3	0.2
(1,30)	1:A:57:MET:HG3	1:A:57:MET:H	17	0.2
(1,274)	1:A:36:ASP:HA	1:A:36:ASP:H	5	0.2
(1,274)	1:A:36:ASP:HA	1:A:36:ASP:H	14	0.2
(1,274)	1:A:36:ASP:HA	1:A:36:ASP:H	15	0.2
(1,262)	1:A:38:GLU:HA	1:A:38:GLU:H	4	0.2
(1,262)	1:A:38:GLU:HA	1:A:38:GLU:H	9	0.2
(1,262)	1:A:38:GLU:HA	1:A:38:GLU:H	11	0.2
(1,262)	1:A:38:GLU:HA	1:A:38:GLU:H	13	0.2
(1,262)	1:A:38:GLU:HA	1:A:38:GLU:H	17	0.2
(1,252)	1:A:41:ASN:HB3	1:A:41:ASN:H	20	0.2
(1,250)	1:A:28:SER:HB2	1:A:28:SER:H	11	0.2
(1,250)	1:A:28:SER:HB2	1:A:28:SER:H	14	0.2
(1,248)	1:A:15:GLU:HA	1:A:15:GLU:H	8	0.2
(1,248)	1:A:15:GLU:HA	1:A:15:GLU:H	13	0.2
(1,248)	1:A:15:GLU:HA	1:A:15:GLU:H	20	0.2
(1,242)	1:A:4:ARG:HA	1:A:4:ARG:H	20	0.2
(1,223)	1:A:7:GLN:HA	1:A:6:GLN:H	1	0.2
(1,223)	1:A:7:GLN:HA	1:A:6:GLN:H	14	0.2
(1,210)	1:A:38:GLU:HB3	1:A:39:GLN:H	12	0.2
(1,205)	1:A:35:VAL:HB	1:A:39:GLN:H	3	0.2
(1,182)	1:A:8:LEU:HG	1:A:9:GLU:H	15	0.2
(1,16)	1:A:3:GLU:HG2	1:A:4:ARG:H	10	0.2
(1,139)	1:A:36:ASP:HB3	1:A:37:ALA:H	3	0.2
(1,139)	1:A:36:ASP:HB3	1:A:37:ALA:H	4	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,137)	1:A:26:ASP:H	1:A:27:LEU:H	11	0.2
(1,137)	1:A:26:ASP:H	1:A:27:LEU:H	14	0.2
(1,117)	1:A:57:MET:HB3	1:A:58:ASN:H	15	0.2
(1,1)	1:A:21:LYS:HG3	1:A:21:LYS:H	16	0.2
(1,91)	1:A:3:GLU:HB3	1:A:4:ARG:H	20	0.19
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG11	1	0.19
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG12	1	0.19
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG13	1	0.19
(1,423)	1:A:36:ASP:HA	1:A:37:ALA:HA	3	0.19
(1,423)	1:A:36:ASP:HA	1:A:37:ALA:HA	10	0.19
(1,388)	1:A:21:LYS:HA	1:A:23:CYS:H	4	0.19
(1,388)	1:A:21:LYS:HA	1:A:23:CYS:H	6	0.19
(1,388)	1:A:21:LYS:HA	1:A:23:CYS:H	8	0.19
(1,388)	1:A:21:LYS:HA	1:A:23:CYS:H	13	0.19
(1,388)	1:A:21:LYS:HA	1:A:23:CYS:H	20	0.19
(1,374)	1:A:53:GLY:HA3	1:A:53:GLY:H	7	0.19
(1,374)	1:A:53:GLY:HA3	1:A:53:GLY:H	17	0.19
(1,359)	1:A:60:LYS:HB2	1:A:61:CYS:H	5	0.19
(1,359)	1:A:60:LYS:HB2	1:A:61:CYS:H	10	0.19
(1,328)	1:A:32:VAL:HG21	1:A:26:ASP:H	3	0.19
(1,328)	1:A:32:VAL:HG22	1:A:26:ASP:H	3	0.19
(1,328)	1:A:32:VAL:HG23	1:A:26:ASP:H	3	0.19
(1,323)	1:A:22:VAL:HB	1:A:34:TYR:H	6	0.19
(1,323)	1:A:22:VAL:HB	1:A:34:TYR:H	10	0.19
(1,304)	1:A:43:PHE:HA	1:A:43:PHE:H	7	0.19
(1,304)	1:A:43:PHE:HA	1:A:43:PHE:H	14	0.19
(1,304)	1:A:43:PHE:HA	1:A:43:PHE:H	18	0.19
(1,299)	1:A:44:LEU:HA	1:A:44:LEU:H	2	0.19
(1,288)	1:A:35:VAL:HB	1:A:35:VAL:H	3	0.19
(1,288)	1:A:35:VAL:HB	1:A:35:VAL:H	6	0.19
(1,288)	1:A:35:VAL:HB	1:A:35:VAL:H	9	0.19
(1,288)	1:A:35:VAL:HB	1:A:35:VAL:H	10	0.19
(1,288)	1:A:35:VAL:HB	1:A:35:VAL:H	13	0.19
(1,288)	1:A:35:VAL:HB	1:A:35:VAL:H	17	0.19
(1,274)	1:A:36:ASP:HA	1:A:36:ASP:H	13	0.19
(1,274)	1:A:36:ASP:HA	1:A:36:ASP:H	17	0.19
(1,262)	1:A:38:GLU:HA	1:A:38:GLU:H	3	0.19
(1,262)	1:A:38:GLU:HA	1:A:38:GLU:H	7	0.19
(1,262)	1:A:38:GLU:HA	1:A:38:GLU:H	10	0.19
(1,262)	1:A:38:GLU:HA	1:A:38:GLU:H	16	0.19
(1,248)	1:A:15:GLU:HA	1:A:15:GLU:H	2	0.19
(1,248)	1:A:15:GLU:HA	1:A:15:GLU:H	3	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,248)	1:A:15:GLU:HA	1:A:15:GLU:H	9	0.19
(1,248)	1:A:15:GLU:HA	1:A:15:GLU:H	10	0.19
(1,248)	1:A:15:GLU:HA	1:A:15:GLU:H	17	0.19
(1,240)	1:A:50:CYS:HB2	1:A:50:CYS:H	6	0.19
(1,22)	1:A:40:LYS:HG2	1:A:41:ASN:H	2	0.19
(1,210)	1:A:38:GLU:HB3	1:A:39:GLN:H	18	0.19
(1,205)	1:A:35:VAL:HB	1:A:39:GLN:H	2	0.19
(1,205)	1:A:35:VAL:HB	1:A:39:GLN:H	5	0.19
(1,205)	1:A:35:VAL:HB	1:A:39:GLN:H	10	0.19
(1,205)	1:A:35:VAL:HB	1:A:39:GLN:H	11	0.19
(1,205)	1:A:35:VAL:HB	1:A:39:GLN:H	16	0.19
(1,205)	1:A:35:VAL:HB	1:A:39:GLN:H	18	0.19
(1,205)	1:A:35:VAL:HB	1:A:39:GLN:H	19	0.19
(1,163)	1:A:13:CYS:HA	1:A:15:GLU:H	10	0.19
(1,137)	1:A:26:ASP:H	1:A:27:LEU:H	4	0.19
(1,137)	1:A:26:ASP:H	1:A:27:LEU:H	15	0.19
(1,137)	1:A:26:ASP:H	1:A:27:LEU:H	17	0.19
(1,137)	1:A:26:ASP:H	1:A:27:LEU:H	19	0.19
(1,101)	1:A:13:CYS:HB2	1:A:15:GLU:H	3	0.19
(1,75)	1:A:2:CYS:HB3	1:A:3:GLU:H	20	0.18
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG11	10	0.18
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG12	10	0.18
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG13	10	0.18
(1,388)	1:A:21:LYS:HA	1:A:23:CYS:H	5	0.18
(1,388)	1:A:21:LYS:HA	1:A:23:CYS:H	15	0.18
(1,359)	1:A:60:LYS:HB2	1:A:61:CYS:H	12	0.18
(1,327)	1:A:8:LEU:HA	1:A:25:ARG:H	4	0.18
(1,304)	1:A:43:PHE:HA	1:A:43:PHE:H	3	0.18
(1,304)	1:A:43:PHE:HA	1:A:43:PHE:H	6	0.18
(1,304)	1:A:43:PHE:HA	1:A:43:PHE:H	8	0.18
(1,304)	1:A:43:PHE:HA	1:A:43:PHE:H	12	0.18
(1,278)	1:A:25:ARG:HB2	1:A:25:ARG:H	11	0.18
(1,274)	1:A:36:ASP:HA	1:A:36:ASP:H	1	0.18
(1,274)	1:A:36:ASP:HA	1:A:36:ASP:H	2	0.18
(1,274)	1:A:36:ASP:HA	1:A:36:ASP:H	7	0.18
(1,274)	1:A:36:ASP:HA	1:A:36:ASP:H	16	0.18
(1,274)	1:A:36:ASP:HA	1:A:36:ASP:H	19	0.18
(1,273)	1:A:43:PHE:HB2	1:A:43:PHE:H	5	0.18
(1,263)	1:A:27:LEU:HA	1:A:27:LEU:H	11	0.18
(1,262)	1:A:38:GLU:HA	1:A:38:GLU:H	6	0.18
(1,261)	1:A:20:CYS:HB3	1:A:20:CYS:H	19	0.18
(1,248)	1:A:15:GLU:HA	1:A:15:GLU:H	1	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,248)	1:A:15:GLU:HA	1:A:15:GLU:H	15	0.18
(1,248)	1:A:15:GLU:HA	1:A:15:GLU:H	18	0.18
(1,242)	1:A:4:ARG:HA	1:A:4:ARG:H	4	0.18
(1,242)	1:A:4:ARG:HA	1:A:4:ARG:H	8	0.18
(1,242)	1:A:4:ARG:HA	1:A:4:ARG:H	10	0.18
(1,223)	1:A:7:GLN:HA	1:A:6:GLN:H	2	0.18
(1,223)	1:A:7:GLN:HA	1:A:6:GLN:H	16	0.18
(1,223)	1:A:7:GLN:HA	1:A:6:GLN:H	19	0.18
(1,205)	1:A:35:VAL:HB	1:A:39:GLN:H	20	0.18
(1,182)	1:A:8:LEU:HG	1:A:9:GLU:H	4	0.18
(1,182)	1:A:8:LEU:HG	1:A:9:GLU:H	10	0.18
(1,182)	1:A:8:LEU:HG	1:A:9:GLU:H	12	0.18
(1,172)	1:A:56:ASP:HA	1:A:48:LYS:H	10	0.18
(1,172)	1:A:56:ASP:HA	1:A:48:LYS:H	19	0.18
(1,139)	1:A:36:ASP:HB3	1:A:37:ALA:H	10	0.18
(1,137)	1:A:26:ASP:H	1:A:27:LEU:H	18	0.18
(1,10)	1:A:9:GLU:HB2	1:A:10:SER:H	6	0.18
(1,76)	1:A:19:SER:HB3	1:A:19:SER:H	16	0.17
(1,73)	1:A:3:GLU:H	1:A:2:CYS:H	3	0.17
(1,465)	1:A:61:CYS:HB3	1:A:16:THR:HG21	13	0.17
(1,465)	1:A:61:CYS:HB3	1:A:16:THR:HG22	13	0.17
(1,465)	1:A:61:CYS:HB3	1:A:16:THR:HG23	13	0.17
(1,442)	1:A:8:LEU:HD21	1:A:6:GLN:HG2	12	0.17
(1,442)	1:A:8:LEU:HD22	1:A:6:GLN:HG2	12	0.17
(1,442)	1:A:8:LEU:HD23	1:A:6:GLN:HG2	12	0.17
(1,41)	1:A:4:ARG:HG2	1:A:5:GLU:H	3	0.17
(1,388)	1:A:21:LYS:HA	1:A:23:CYS:H	12	0.17
(1,388)	1:A:21:LYS:HA	1:A:23:CYS:H	14	0.17
(1,388)	1:A:21:LYS:HA	1:A:23:CYS:H	17	0.17
(1,388)	1:A:21:LYS:HA	1:A:23:CYS:H	18	0.17
(1,388)	1:A:21:LYS:HA	1:A:23:CYS:H	19	0.17
(1,328)	1:A:32:VAL:HG21	1:A:26:ASP:H	2	0.17
(1,328)	1:A:32:VAL:HG22	1:A:26:ASP:H	2	0.17
(1,328)	1:A:32:VAL:HG23	1:A:26:ASP:H	2	0.17
(1,327)	1:A:8:LEU:HA	1:A:25:ARG:H	7	0.17
(1,299)	1:A:44:LEU:HA	1:A:44:LEU:H	14	0.17
(1,288)	1:A:35:VAL:HB	1:A:35:VAL:H	2	0.17
(1,288)	1:A:35:VAL:HB	1:A:35:VAL:H	15	0.17
(1,288)	1:A:35:VAL:HB	1:A:35:VAL:H	16	0.17
(1,274)	1:A:36:ASP:HA	1:A:36:ASP:H	3	0.17
(1,274)	1:A:36:ASP:HA	1:A:36:ASP:H	4	0.17
(1,274)	1:A:36:ASP:HA	1:A:36:ASP:H	6	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,274)	1:A:36:ASP:HA	1:A:36:ASP:H	9	0.17
(1,263)	1:A:27:LEU:HA	1:A:27:LEU:H	15	0.17
(1,262)	1:A:38:GLU:HA	1:A:38:GLU:H	8	0.17
(1,252)	1:A:41:ASN:HB3	1:A:41:ASN:H	11	0.17
(1,250)	1:A:28:SER:HB2	1:A:28:SER:H	9	0.17
(1,248)	1:A:15:GLU:HA	1:A:15:GLU:H	7	0.17
(1,242)	1:A:4:ARG:HA	1:A:4:ARG:H	12	0.17
(1,242)	1:A:4:ARG:HA	1:A:4:ARG:H	15	0.17
(1,242)	1:A:4:ARG:HA	1:A:4:ARG:H	18	0.17
(1,223)	1:A:7:GLN:HA	1:A:6:GLN:H	7	0.17
(1,223)	1:A:7:GLN:HA	1:A:6:GLN:H	17	0.17
(1,212)	1:A:27:LEU:HA	1:A:29:GLY:H	14	0.17
(1,21)	1:A:27:LEU:HD21	1:A:28:SER:H	9	0.17
(1,21)	1:A:27:LEU:HD22	1:A:28:SER:H	9	0.17
(1,21)	1:A:27:LEU:HD23	1:A:28:SER:H	9	0.17
(1,205)	1:A:35:VAL:HB	1:A:39:GLN:H	4	0.17
(1,205)	1:A:35:VAL:HB	1:A:39:GLN:H	6	0.17
(1,205)	1:A:35:VAL:HB	1:A:39:GLN:H	14	0.17
(1,182)	1:A:8:LEU:HG	1:A:9:GLU:H	7	0.17
(1,172)	1:A:56:ASP:HA	1:A:48:LYS:H	9	0.17
(1,171)	1:A:18:ASN:HB2	1:A:13:CYS:H	5	0.17
(1,137)	1:A:26:ASP:H	1:A:27:LEU:H	9	0.17
(1,136)	1:A:18:ASN:HB3	1:A:19:SER:H	5	0.17
(1,54)	1:A:62:GLU:HG3	1:A:62:GLU:H	8	0.16
(1,447)	1:A:12:ALA:HA	1:A:23:CYS:HB3	4	0.16
(1,374)	1:A:53:GLY:HA3	1:A:53:GLY:H	9	0.16
(1,374)	1:A:53:GLY:HA3	1:A:53:GLY:H	13	0.16
(1,374)	1:A:53:GLY:HA3	1:A:53:GLY:H	14	0.16
(1,359)	1:A:60:LYS:HB2	1:A:61:CYS:H	15	0.16
(1,327)	1:A:8:LEU:HA	1:A:25:ARG:H	2	0.16
(1,327)	1:A:8:LEU:HA	1:A:25:ARG:H	12	0.16
(1,327)	1:A:8:LEU:HA	1:A:25:ARG:H	17	0.16
(1,327)	1:A:8:LEU:HA	1:A:25:ARG:H	20	0.16
(1,323)	1:A:22:VAL:HB	1:A:34:TYR:H	4	0.16
(1,323)	1:A:22:VAL:HB	1:A:34:TYR:H	12	0.16
(1,323)	1:A:22:VAL:HB	1:A:34:TYR:H	16	0.16
(1,304)	1:A:43:PHE:HA	1:A:43:PHE:H	9	0.16
(1,274)	1:A:36:ASP:HA	1:A:36:ASP:H	10	0.16
(1,274)	1:A:36:ASP:HA	1:A:36:ASP:H	11	0.16
(1,274)	1:A:36:ASP:HA	1:A:36:ASP:H	12	0.16
(1,274)	1:A:36:ASP:HA	1:A:36:ASP:H	18	0.16
(1,263)	1:A:27:LEU:HA	1:A:27:LEU:H	17	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,263)	1:A:27:LEU:HA	1:A:27:LEU:H	19	0.16
(1,263)	1:A:27:LEU:HA	1:A:27:LEU:H	20	0.16
(1,262)	1:A:38:GLU:HA	1:A:38:GLU:H	5	0.16
(1,250)	1:A:28:SER:HB2	1:A:28:SER:H	2	0.16
(1,248)	1:A:15:GLU:HA	1:A:15:GLU:H	11	0.16
(1,242)	1:A:4:ARG:HA	1:A:4:ARG:H	2	0.16
(1,240)	1:A:50:CYS:HB2	1:A:50:CYS:H	19	0.16
(1,223)	1:A:7:GLN:HA	1:A:6:GLN:H	8	0.16
(1,223)	1:A:7:GLN:HA	1:A:6:GLN:H	12	0.16
(1,223)	1:A:7:GLN:HA	1:A:6:GLN:H	18	0.16
(1,22)	1:A:40:LYS:HG2	1:A:41:ASN:H	8	0.16
(1,216)	1:A:38:GLU:H	1:A:39:GLN:H	11	0.16
(1,212)	1:A:27:LEU:HA	1:A:29:GLY:H	19	0.16
(1,210)	1:A:38:GLU:HB3	1:A:39:GLN:H	19	0.16
(1,205)	1:A:35:VAL:HB	1:A:39:GLN:H	1	0.16
(1,205)	1:A:35:VAL:HB	1:A:39:GLN:H	8	0.16
(1,205)	1:A:35:VAL:HB	1:A:39:GLN:H	9	0.16
(1,205)	1:A:35:VAL:HB	1:A:39:GLN:H	13	0.16
(1,205)	1:A:35:VAL:HB	1:A:39:GLN:H	15	0.16
(1,19)	1:A:25:ARG:HB3	1:A:26:ASP:H	4	0.16
(1,182)	1:A:8:LEU:HG	1:A:9:GLU:H	3	0.16
(1,182)	1:A:8:LEU:HG	1:A:9:GLU:H	14	0.16
(1,182)	1:A:8:LEU:HG	1:A:9:GLU:H	18	0.16
(1,96)	1:A:36:ASP:HB2	1:A:37:ALA:H	11	0.15
(1,76)	1:A:19:SER:HB3	1:A:19:SER:H	7	0.15
(1,441)	1:A:39:GLN:HA	1:A:35:VAL:HB	4	0.15
(1,441)	1:A:39:GLN:HA	1:A:35:VAL:HB	6	0.15
(1,441)	1:A:39:GLN:HA	1:A:35:VAL:HB	16	0.15
(1,423)	1:A:36:ASP:HA	1:A:37:ALA:HA	9	0.15
(1,382)	1:A:53:GLY:HA2	1:A:53:GLY:H	18	0.15
(1,374)	1:A:53:GLY:HA3	1:A:53:GLY:H	6	0.15
(1,359)	1:A:60:LYS:HB2	1:A:61:CYS:H	18	0.15
(1,327)	1:A:8:LEU:HA	1:A:25:ARG:H	14	0.15
(1,323)	1:A:22:VAL:HB	1:A:34:TYR:H	19	0.15
(1,288)	1:A:35:VAL:HB	1:A:35:VAL:H	1	0.15
(1,288)	1:A:35:VAL:HB	1:A:35:VAL:H	4	0.15
(1,288)	1:A:35:VAL:HB	1:A:35:VAL:H	5	0.15
(1,288)	1:A:35:VAL:HB	1:A:35:VAL:H	20	0.15
(1,274)	1:A:36:ASP:HA	1:A:36:ASP:H	20	0.15
(1,273)	1:A:43:PHE:HB2	1:A:43:PHE:H	13	0.15
(1,263)	1:A:27:LEU:HA	1:A:27:LEU:H	2	0.15
(1,263)	1:A:27:LEU:HA	1:A:27:LEU:H	5	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,263)	1:A:27:LEU:HA	1:A:27:LEU:H	7	0.15
(1,263)	1:A:27:LEU:HA	1:A:27:LEU:H	9	0.15
(1,263)	1:A:27:LEU:HA	1:A:27:LEU:H	18	0.15
(1,250)	1:A:28:SER:HB2	1:A:28:SER:H	15	0.15
(1,250)	1:A:28:SER:HB2	1:A:28:SER:H	18	0.15
(1,242)	1:A:4:ARG:HA	1:A:4:ARG:H	16	0.15
(1,242)	1:A:4:ARG:HA	1:A:4:ARG:H	19	0.15
(1,240)	1:A:50:CYS:HB2	1:A:50:CYS:H	3	0.15
(1,240)	1:A:50:CYS:HB2	1:A:50:CYS:H	11	0.15
(1,240)	1:A:50:CYS:HB2	1:A:50:CYS:H	20	0.15
(1,223)	1:A:7:GLN:HA	1:A:6:GLN:H	4	0.15
(1,223)	1:A:7:GLN:HA	1:A:6:GLN:H	6	0.15
(1,223)	1:A:7:GLN:HA	1:A:6:GLN:H	13	0.15
(1,205)	1:A:35:VAL:HB	1:A:39:GLN:H	17	0.15
(1,182)	1:A:8:LEU:HG	1:A:9:GLU:H	16	0.15
(1,182)	1:A:8:LEU:HG	1:A:9:GLU:H	17	0.15
(1,137)	1:A:26:ASP:H	1:A:27:LEU:H	20	0.15
(1,117)	1:A:57:MET:HB3	1:A:58:ASN:H	6	0.15
(1,88)	1:A:16:THR:HA	1:A:19:SER:H	10	0.14
(1,88)	1:A:16:THR:HA	1:A:19:SER:H	16	0.14
(1,86)	1:A:23:CYS:HB2	1:A:24:CYS:H	14	0.14
(1,76)	1:A:19:SER:HB3	1:A:19:SER:H	1	0.14
(1,74)	1:A:26:ASP:HA	1:A:27:LEU:H	20	0.14
(1,465)	1:A:61:CYS:HB3	1:A:16:THR:HG21	14	0.14
(1,465)	1:A:61:CYS:HB3	1:A:16:THR:HG22	14	0.14
(1,465)	1:A:61:CYS:HB3	1:A:16:THR:HG23	14	0.14
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG11	4	0.14
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG12	4	0.14
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG13	4	0.14
(1,441)	1:A:39:GLN:HA	1:A:35:VAL:HB	13	0.14
(1,441)	1:A:39:GLN:HA	1:A:35:VAL:HB	17	0.14
(1,374)	1:A:53:GLY:HA3	1:A:53:GLY:H	3	0.14
(1,327)	1:A:8:LEU:HA	1:A:25:ARG:H	5	0.14
(1,327)	1:A:8:LEU:HA	1:A:25:ARG:H	10	0.14
(1,327)	1:A:8:LEU:HA	1:A:25:ARG:H	13	0.14
(1,323)	1:A:22:VAL:HB	1:A:34:TYR:H	7	0.14
(1,304)	1:A:43:PHE:HA	1:A:43:PHE:H	16	0.14
(1,30)	1:A:57:MET:HG3	1:A:57:MET:H	7	0.14
(1,273)	1:A:43:PHE:HB2	1:A:43:PHE:H	1	0.14
(1,263)	1:A:27:LEU:HA	1:A:27:LEU:H	3	0.14
(1,263)	1:A:27:LEU:HA	1:A:27:LEU:H	8	0.14
(1,263)	1:A:27:LEU:HA	1:A:27:LEU:H	12	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,263)	1:A:27:LEU:HA	1:A:27:LEU:H	13	0.14
(1,253)	1:A:28:SER:HA	1:A:28:SER:H	8	0.14
(1,253)	1:A:28:SER:HA	1:A:28:SER:H	11	0.14
(1,250)	1:A:28:SER:HB2	1:A:28:SER:H	4	0.14
(1,250)	1:A:28:SER:HB2	1:A:28:SER:H	6	0.14
(1,242)	1:A:4:ARG:HA	1:A:4:ARG:H	6	0.14
(1,240)	1:A:50:CYS:HB2	1:A:50:CYS:H	2	0.14
(1,240)	1:A:50:CYS:HB2	1:A:50:CYS:H	9	0.14
(1,220)	1:A:3:GLU:HA	1:A:7:GLN:H	12	0.14
(1,212)	1:A:27:LEU:HA	1:A:29:GLY:H	7	0.14
(1,21)	1:A:27:LEU:HD21	1:A:28:SER:H	11	0.14
(1,21)	1:A:27:LEU:HD22	1:A:28:SER:H	11	0.14
(1,21)	1:A:27:LEU:HD23	1:A:28:SER:H	11	0.14
(1,182)	1:A:8:LEU:HG	1:A:9:GLU:H	13	0.14
(1,172)	1:A:56:ASP:HA	1:A:48:LYS:H	12	0.14
(1,172)	1:A:56:ASP:HA	1:A:48:LYS:H	15	0.14
(1,163)	1:A:13:CYS:HA	1:A:15:GLU:H	9	0.14
(1,149)	1:A:44:LEU:HA	1:A:45:ARG:H	3	0.14
(1,149)	1:A:44:LEU:HA	1:A:45:ARG:H	12	0.14
(1,136)	1:A:18:ASN:HB3	1:A:19:SER:H	7	0.14
(1,136)	1:A:18:ASN:HB3	1:A:19:SER:H	10	0.14
(1,82)	1:A:18:ASN:HA	1:A:19:SER:H	16	0.13
(1,73)	1:A:3:GLU:H	1:A:2:CYS:H	20	0.13
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG11	17	0.13
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG12	17	0.13
(1,456)	1:A:61:CYS:HB3	1:A:52:VAL:HG13	17	0.13
(1,441)	1:A:39:GLN:HA	1:A:35:VAL:HB	1	0.13
(1,441)	1:A:39:GLN:HA	1:A:35:VAL:HB	11	0.13
(1,423)	1:A:36:ASP:HA	1:A:37:ALA:HA	11	0.13
(1,41)	1:A:4:ARG:HG2	1:A:5:GLU:H	20	0.13
(1,342)	1:A:41:ASN:HA	1:A:36:ASP:H	8	0.13
(1,327)	1:A:8:LEU:HA	1:A:25:ARG:H	16	0.13
(1,327)	1:A:8:LEU:HA	1:A:25:ARG:H	18	0.13
(1,323)	1:A:22:VAL:HB	1:A:34:TYR:H	2	0.13
(1,323)	1:A:22:VAL:HB	1:A:34:TYR:H	9	0.13
(1,323)	1:A:22:VAL:HB	1:A:34:TYR:H	17	0.13
(1,304)	1:A:43:PHE:HA	1:A:43:PHE:H	19	0.13
(1,304)	1:A:43:PHE:HA	1:A:43:PHE:H	20	0.13
(1,30)	1:A:57:MET:HG3	1:A:57:MET:H	5	0.13
(1,278)	1:A:25:ARG:HB2	1:A:25:ARG:H	5	0.13
(1,263)	1:A:27:LEU:HA	1:A:27:LEU:H	1	0.13
(1,263)	1:A:27:LEU:HA	1:A:27:LEU:H	4	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,263)	1:A:27:LEU:HA	1:A:27:LEU:H	6	0.13
(1,263)	1:A:27:LEU:HA	1:A:27:LEU:H	10	0.13
(1,263)	1:A:27:LEU:HA	1:A:27:LEU:H	14	0.13
(1,263)	1:A:27:LEU:HA	1:A:27:LEU:H	16	0.13
(1,253)	1:A:28:SER:HA	1:A:28:SER:H	1	0.13
(1,253)	1:A:28:SER:HA	1:A:28:SER:H	3	0.13
(1,253)	1:A:28:SER:HA	1:A:28:SER:H	5	0.13
(1,253)	1:A:28:SER:HA	1:A:28:SER:H	12	0.13
(1,253)	1:A:28:SER:HA	1:A:28:SER:H	14	0.13
(1,253)	1:A:28:SER:HA	1:A:28:SER:H	20	0.13
(1,252)	1:A:41:ASN:HB3	1:A:41:ASN:H	1	0.13
(1,252)	1:A:41:ASN:HB3	1:A:41:ASN:H	6	0.13
(1,242)	1:A:4:ARG:HA	1:A:4:ARG:H	3	0.13
(1,242)	1:A:4:ARG:HA	1:A:4:ARG:H	13	0.13
(1,242)	1:A:4:ARG:HA	1:A:4:ARG:H	17	0.13
(1,240)	1:A:50:CYS:HB2	1:A:50:CYS:H	8	0.13
(1,239)	1:A:50:CYS:HA	1:A:50:CYS:H	13	0.13
(1,223)	1:A:7:GLN:HA	1:A:6:GLN:H	5	0.13
(1,172)	1:A:56:ASP:HA	1:A:48:LYS:H	17	0.13
(1,139)	1:A:36:ASP:HB3	1:A:37:ALA:H	6	0.13
(1,82)	1:A:18:ASN:HA	1:A:19:SER:H	2	0.12
(1,82)	1:A:18:ASN:HA	1:A:19:SER:H	6	0.12
(1,66)	1:A:10:SER:HA	1:A:2:CYS:H	6	0.12
(1,48)	1:A:25:ARG:HB3	1:A:25:ARG:H	4	0.12
(1,441)	1:A:39:GLN:HA	1:A:35:VAL:HB	10	0.12
(1,423)	1:A:36:ASP:HA	1:A:37:ALA:HA	7	0.12
(1,359)	1:A:60:LYS:HB2	1:A:61:CYS:H	17	0.12
(1,342)	1:A:41:ASN:HA	1:A:36:ASP:H	13	0.12
(1,342)	1:A:41:ASN:HA	1:A:36:ASP:H	16	0.12
(1,304)	1:A:43:PHE:HA	1:A:43:PHE:H	11	0.12
(1,303)	1:A:45:ARG:HA	1:A:45:ARG:H	4	0.12
(1,28)	1:A:42:LEU:HB3	1:A:42:LEU:H	13	0.12
(1,278)	1:A:25:ARG:HB2	1:A:25:ARG:H	10	0.12
(1,267)	1:A:2:CYS:HA	1:A:2:CYS:H	13	0.12
(1,253)	1:A:28:SER:HA	1:A:28:SER:H	2	0.12
(1,253)	1:A:28:SER:HA	1:A:28:SER:H	4	0.12
(1,253)	1:A:28:SER:HA	1:A:28:SER:H	6	0.12
(1,253)	1:A:28:SER:HA	1:A:28:SER:H	9	0.12
(1,253)	1:A:28:SER:HA	1:A:28:SER:H	10	0.12
(1,253)	1:A:28:SER:HA	1:A:28:SER:H	13	0.12
(1,252)	1:A:41:ASN:HB3	1:A:41:ASN:H	2	0.12
(1,242)	1:A:4:ARG:HA	1:A:4:ARG:H	7	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,239)	1:A:50:CYS:HA	1:A:50:CYS:H	18	0.12
(1,220)	1:A:3:GLU:HA	1:A:7:GLN:H	10	0.12
(1,216)	1:A:38:GLU:H	1:A:39:GLN:H	7	0.12
(1,19)	1:A:25:ARG:HB3	1:A:26:ASP:H	2	0.12
(1,172)	1:A:56:ASP:HA	1:A:48:LYS:H	14	0.12
(1,168)	1:A:25:ARG:HG3	1:A:29:GLY:H	3	0.12
(1,16)	1:A:3:GLU:HG2	1:A:4:ARG:H	15	0.12
(1,149)	1:A:44:LEU:HA	1:A:45:ARG:H	1	0.12
(1,149)	1:A:44:LEU:HA	1:A:45:ARG:H	13	0.12
(1,149)	1:A:44:LEU:HA	1:A:45:ARG:H	18	0.12
(1,149)	1:A:44:LEU:HA	1:A:45:ARG:H	19	0.12
(1,144)	1:A:22:VAL:HG21	1:A:23:CYS:H	20	0.12
(1,144)	1:A:22:VAL:HG22	1:A:23:CYS:H	20	0.12
(1,144)	1:A:22:VAL:HG23	1:A:23:CYS:H	20	0.12
(1,136)	1:A:18:ASN:HB3	1:A:19:SER:H	17	0.12
(1,127)	1:A:9:GLU:H	1:A:8:LEU:H	8	0.12
(1,127)	1:A:9:GLU:H	1:A:8:LEU:H	11	0.12
(1,117)	1:A:57:MET:HB3	1:A:58:ASN:H	13	0.12
(1,11)	1:A:30:ARG:HD3	1:A:30:ARG:H	9	0.12
(1,1)	1:A:21:LYS:HG3	1:A:21:LYS:H	4	0.12
(1,86)	1:A:23:CYS:HB2	1:A:24:CYS:H	7	0.11
(1,82)	1:A:18:ASN:HA	1:A:19:SER:H	11	0.11
(1,76)	1:A:19:SER:HB3	1:A:19:SER:H	5	0.11
(1,48)	1:A:25:ARG:HB3	1:A:25:ARG:H	9	0.11
(1,459)	1:A:25:ARG:HG2	1:A:11:CYS:HB3	7	0.11
(1,459)	1:A:25:ARG:HG2	1:A:11:CYS:HB2	7	0.11
(1,459)	1:A:25:ARG:HG2	1:A:11:CYS:HB3	10	0.11
(1,459)	1:A:25:ARG:HG2	1:A:11:CYS:HB2	10	0.11
(1,441)	1:A:39:GLN:HA	1:A:35:VAL:HB	2	0.11
(1,441)	1:A:39:GLN:HA	1:A:35:VAL:HB	3	0.11
(1,441)	1:A:39:GLN:HA	1:A:35:VAL:HB	5	0.11
(1,423)	1:A:36:ASP:HA	1:A:37:ALA:HA	12	0.11
(1,327)	1:A:8:LEU:HA	1:A:25:ARG:H	19	0.11
(1,323)	1:A:22:VAL:HB	1:A:34:TYR:H	11	0.11
(1,323)	1:A:22:VAL:HB	1:A:34:TYR:H	13	0.11
(1,323)	1:A:22:VAL:HB	1:A:34:TYR:H	14	0.11
(1,304)	1:A:43:PHE:HA	1:A:43:PHE:H	2	0.11
(1,303)	1:A:45:ARG:HA	1:A:45:ARG:H	11	0.11
(1,303)	1:A:45:ARG:HA	1:A:45:ARG:H	16	0.11
(1,303)	1:A:45:ARG:HA	1:A:45:ARG:H	17	0.11
(1,267)	1:A:2:CYS:HA	1:A:2:CYS:H	12	0.11
(1,267)	1:A:2:CYS:HA	1:A:2:CYS:H	17	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,253)	1:A:28:SER:HA	1:A:28:SER:H	7	0.11
(1,253)	1:A:28:SER:HA	1:A:28:SER:H	15	0.11
(1,253)	1:A:28:SER:HA	1:A:28:SER:H	16	0.11
(1,253)	1:A:28:SER:HA	1:A:28:SER:H	18	0.11
(1,239)	1:A:50:CYS:HA	1:A:50:CYS:H	2	0.11
(1,239)	1:A:50:CYS:HA	1:A:50:CYS:H	8	0.11
(1,239)	1:A:50:CYS:HA	1:A:50:CYS:H	9	0.11
(1,239)	1:A:50:CYS:HA	1:A:50:CYS:H	14	0.11
(1,239)	1:A:50:CYS:HA	1:A:50:CYS:H	17	0.11
(1,239)	1:A:50:CYS:HA	1:A:50:CYS:H	20	0.11
(1,22)	1:A:40:LYS:HG2	1:A:41:ASN:H	3	0.11
(1,216)	1:A:38:GLU:H	1:A:39:GLN:H	8	0.11
(1,212)	1:A:27:LEU:HA	1:A:29:GLY:H	8	0.11
(1,212)	1:A:27:LEU:HA	1:A:29:GLY:H	15	0.11
(1,163)	1:A:13:CYS:HA	1:A:15:GLU:H	15	0.11
(1,11)	1:A:30:ARG:HD3	1:A:30:ARG:H	7	0.11

10 Dihedral-angle violation analysis (i)

No dihedral-angle restraints found