Full wwPDB NMR Structure Validation Report

Jun 5, 2023 – 09:47 AM EDT

PDB ID	:	2M3B
BMRB ID	:	18952
Title	:	Serine 16 phosphorylated phospholamban pentamer, Hybrid solution and solid-state NMR structural ensemble
Authors	:	Vostrikov, V.V.; Verardi, R.; Veglia, G.
Deposited on	:	2013-01-15

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

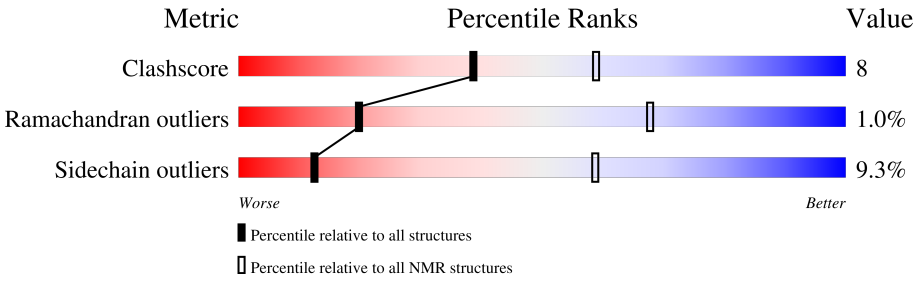
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
wwPDB-RCI	:	v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV	:	Wang et al. (2010)
wwPDB-ShiftChecker	:	v1.2
BMRB Restraints Analysis	:	v1.2
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.33

1 Overall quality at a glance

The following experimental techniques were used to determine the structure:
SOLUTION NMR, SOLID-STATE NMR

The overall completeness of chemical shifts assignment is 2%.

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	52	37% 13% 50%
1	B	52	37% 13% 50%
1	C	52	37% 15% 48%
1	D	52	40% 12% 48%
1	E	52	40% 12% 48%

2 Ensemble composition and analysis

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:5-A:14 (10)	0.08	10
2	A:31-A:46, B:31-B:46, C:31-C:47, D:31-D:47, E:31-E:47 (83)	0.35	11
3	B:5-B:14 (10)	0.09	10
4	C:5-C:14 (10)	0.09	10
5	D:5-D:14 (10)	0.08	10
6	E:5-E:14 (10)	0.08	10

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

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

The models can be grouped into 3 clusters. No single-model clusters were found.

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

3 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 4470 atoms, of which 2335 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Cardiac phospholamban.

Mol	Chain	Residues	Atoms							Trace
1	A	52	Total	C	H	N	O	P	S	0
			894	274	467	73	73	1	6	
1	B	52	Total	C	H	N	O	P	S	0
			894	274	467	73	73	1	6	
1	C	52	Total	C	H	N	O	P	S	0
			894	274	467	73	73	1	6	
1	D	52	Total	C	H	N	O	P	S	0
			894	274	467	73	73	1	6	
1	E	52	Total	C	H	N	O	P	S	0
			894	274	467	73	73	1	6	

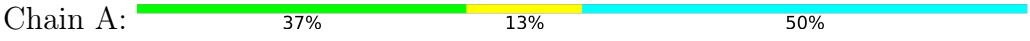
4 Residue-property plots

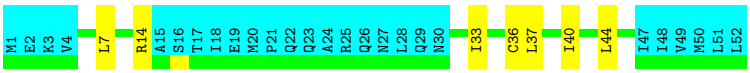
4.1 Average score per residue in the NMR ensemble

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

• Molecule 1: Cardiac phospholamban

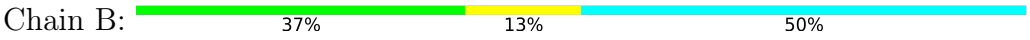
Chain A:

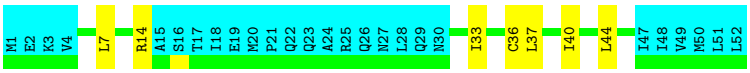




• Molecule 1: Cardiac phospholamban

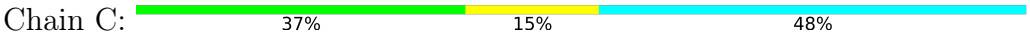
Chain B:

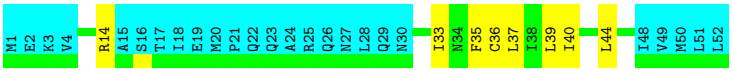




• Molecule 1: Cardiac phospholamban

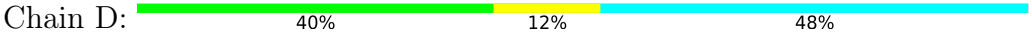
Chain C:

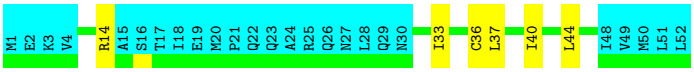




• Molecule 1: Cardiac phospholamban

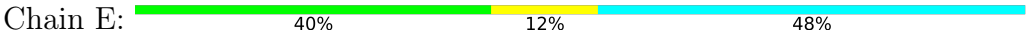
Chain D:





• Molecule 1: Cardiac phospholamban

Chain E:



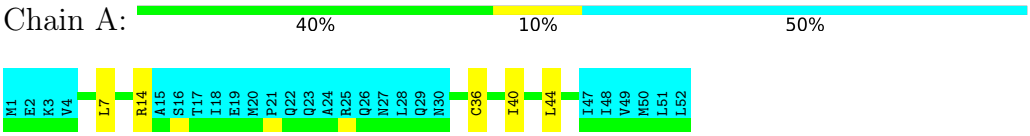
4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

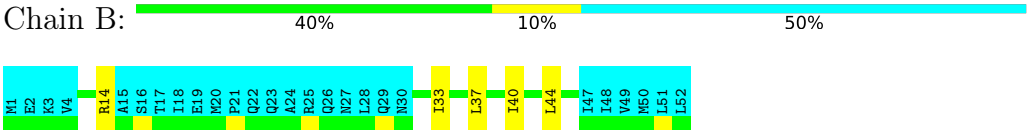
• Molecule 1: Cardiac phospholamban

Chain A:



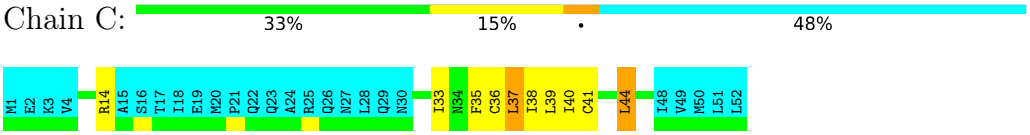
• Molecule 1: Cardiac phospholamban

Chain B:



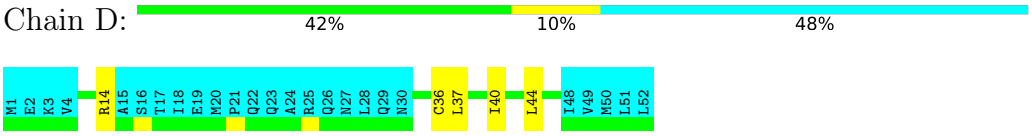
• Molecule 1: Cardiac phospholamban

Chain C:



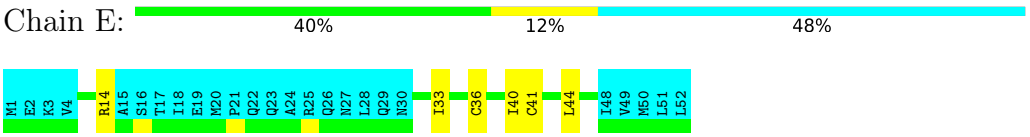
• Molecule 1: Cardiac phospholamban

Chain D:



• Molecule 1: Cardiac phospholamban

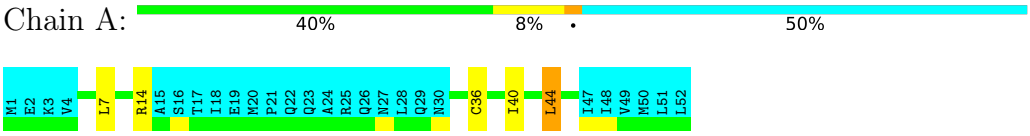
Chain E:



4.2.2 Score per residue for model 2

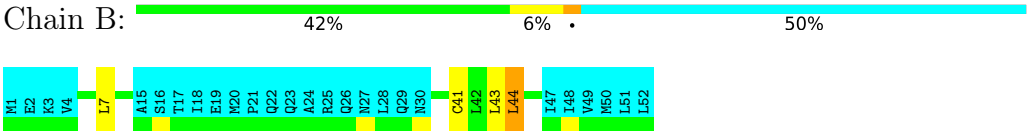
• Molecule 1: Cardiac phospholamban

Chain A:



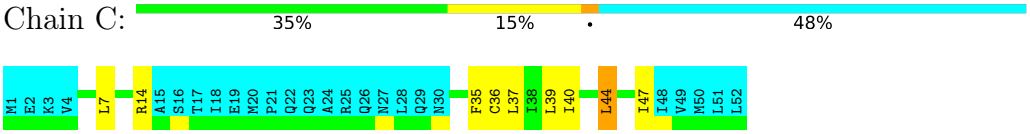
• Molecule 1: Cardiac phospholamban

Chain B:



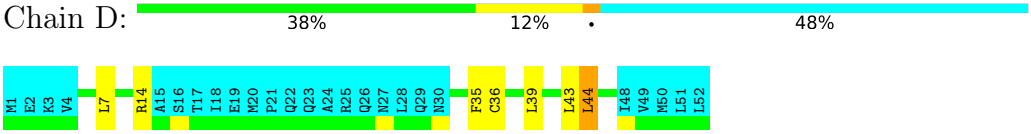
• Molecule 1: Cardiac phospholamban

Chain C:



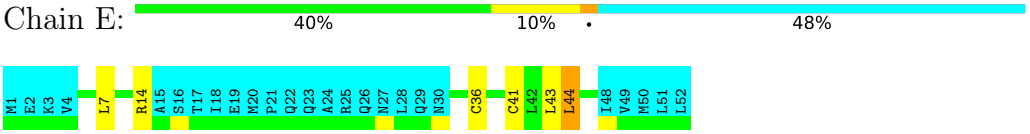
• Molecule 1: Cardiac phospholamban

Chain D:



• Molecule 1: Cardiac phospholamban

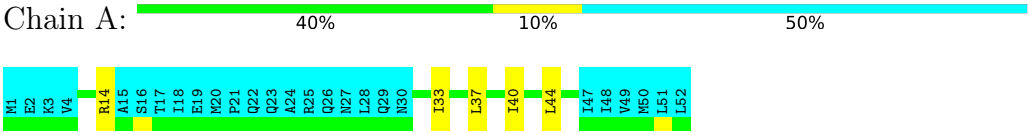
Chain E:



4.2.3 Score per residue for model 3

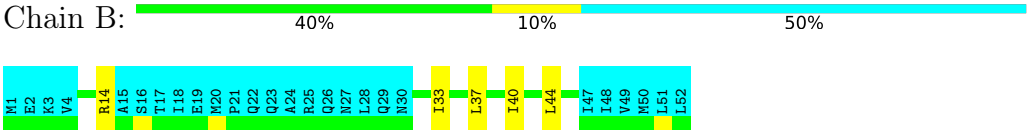
• Molecule 1: Cardiac phospholamban

Chain A:



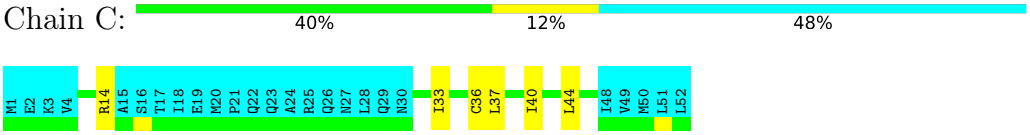
• Molecule 1: Cardiac phospholamban

Chain B:



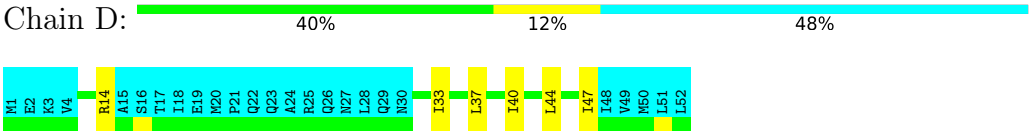
• Molecule 1: Cardiac phospholamban

Chain C:



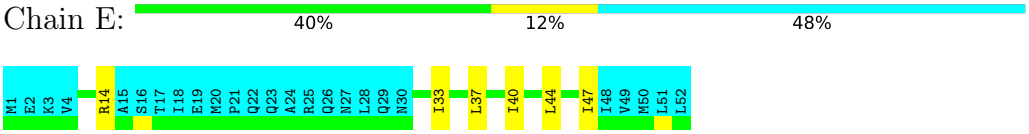
• Molecule 1: Cardiac phospholamban

Chain D:



• Molecule 1: Cardiac phospholamban

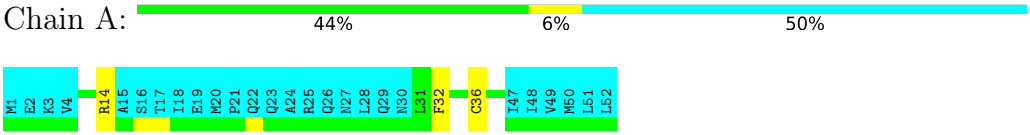
Chain E:



4.2.4 Score per residue for model 4

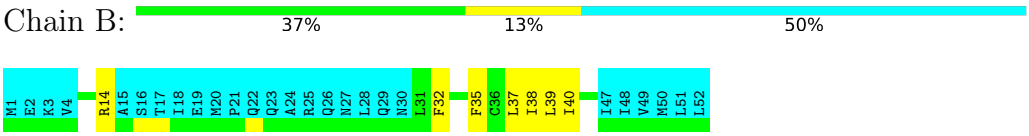
• Molecule 1: Cardiac phospholamban

Chain A:



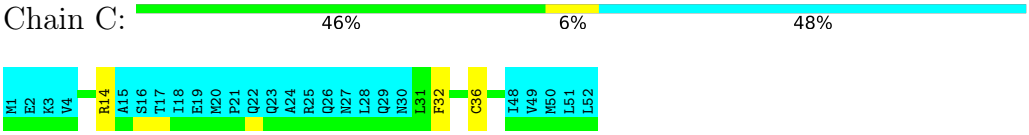
• Molecule 1: Cardiac phospholamban

Chain B:



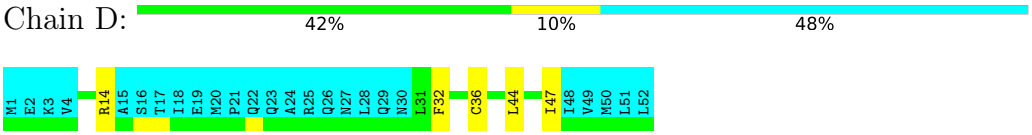
• Molecule 1: Cardiac phospholamban

Chain C:



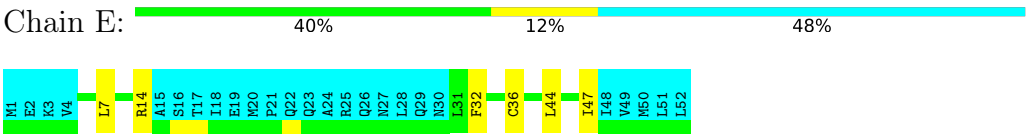
• Molecule 1: Cardiac phospholamban

Chain D:



• Molecule 1: Cardiac phospholamban

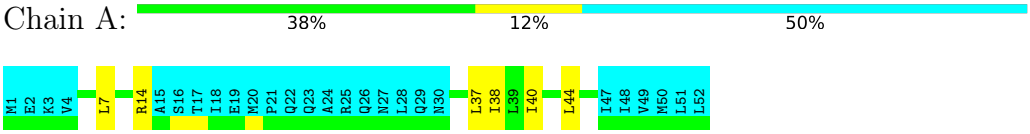
Chain E:



4.2.5 Score per residue for model 5

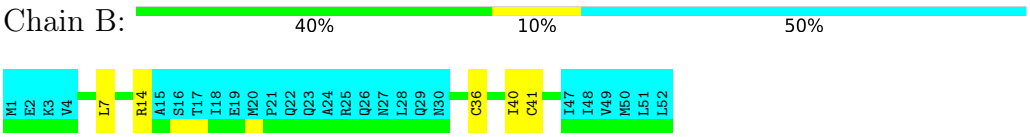
• Molecule 1: Cardiac phospholamban

Chain A:



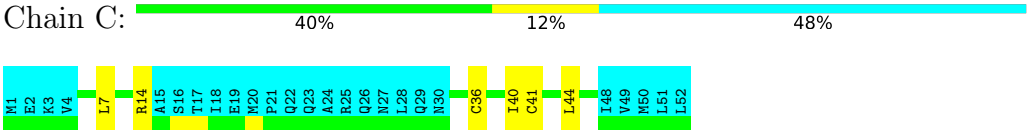
• Molecule 1: Cardiac phospholamban

Chain B:



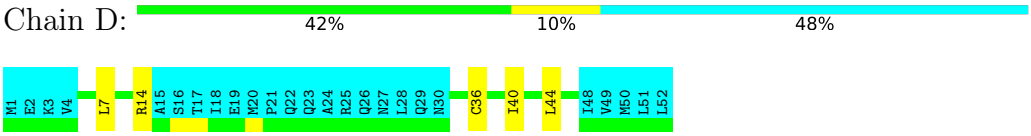
• Molecule 1: Cardiac phospholamban

Chain C:



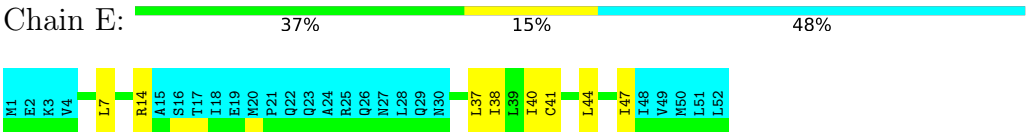
• Molecule 1: Cardiac phospholamban

Chain D:



• Molecule 1: Cardiac phospholamban

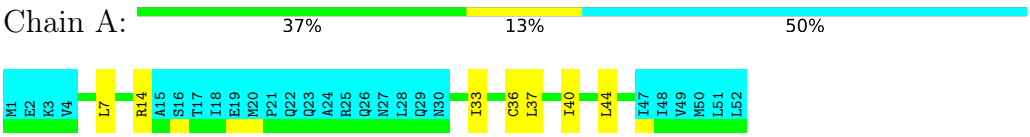
Chain E:



4.2.6 Score per residue for model 6

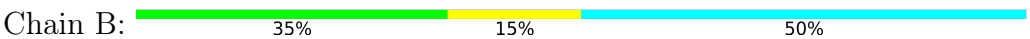
• Molecule 1: Cardiac phospholamban

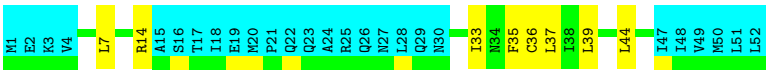
Chain A:



• Molecule 1: Cardiac phospholamban

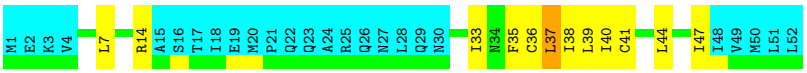
Chain B:





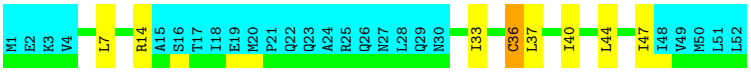
• Molecule 1: Cardiac phospholamban

Chain C:



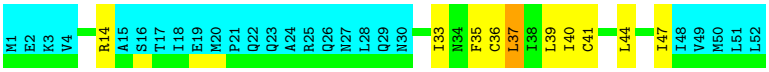
• Molecule 1: Cardiac phospholamban

Chain D:



• Molecule 1: Cardiac phospholamban

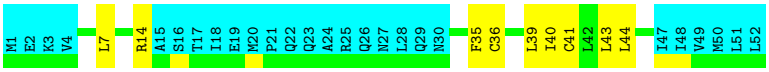
Chain E:



4.2.7 Score per residue for model 7

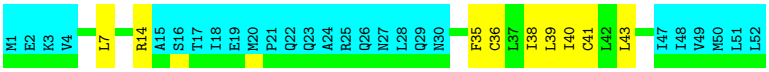
• Molecule 1: Cardiac phospholamban

Chain A:



• Molecule 1: Cardiac phospholamban

Chain B:

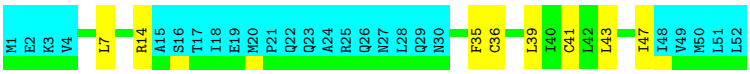


• Molecule 1: Cardiac phospholamban

Chain C:

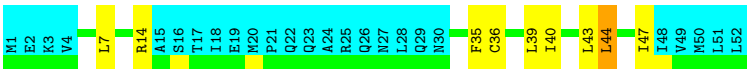
• Molecule 1: Cardiac phospholamban

Chain D:



• Molecule 1: Cardiac phospholamban

Chain E:



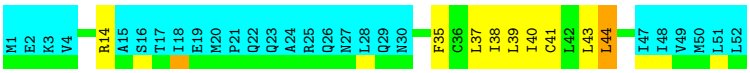
4.2.8 Score per residue for model 8

• Molecule 1: Cardiac phospholamban

Chain A:

• Molecule 1: Cardiac phospholamban

Chain B:

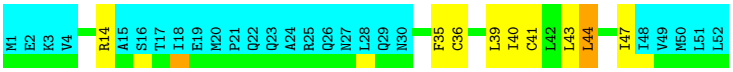


• Molecule 1: Cardiac phospholamban

Chain C:

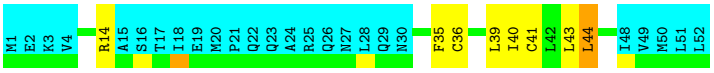
• Molecule 1: Cardiac phospholamban

Chain D:



• Molecule 1: Cardiac phospholamban

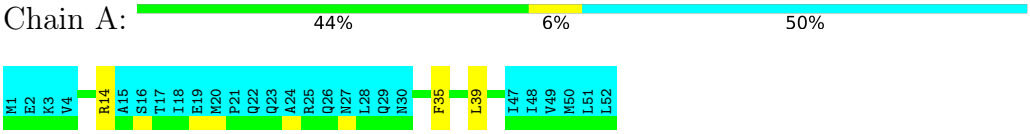
Chain E:



4.2.9 Score per residue for model 9

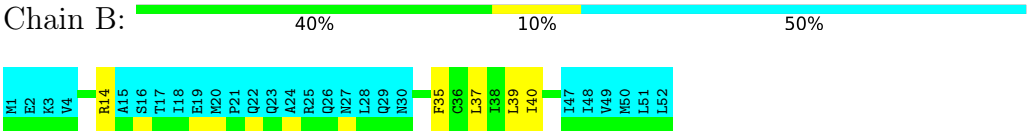
• Molecule 1: Cardiac phospholamban

Chain A:



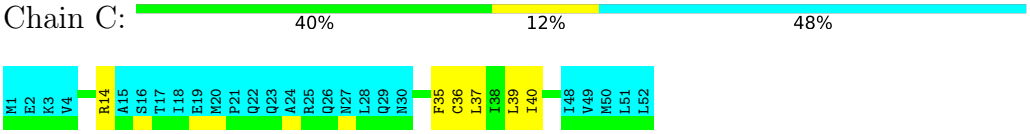
• Molecule 1: Cardiac phospholamban

Chain B:



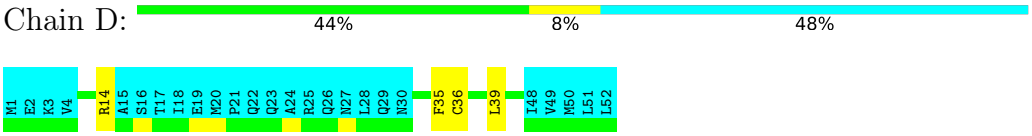
• Molecule 1: Cardiac phospholamban

Chain C:



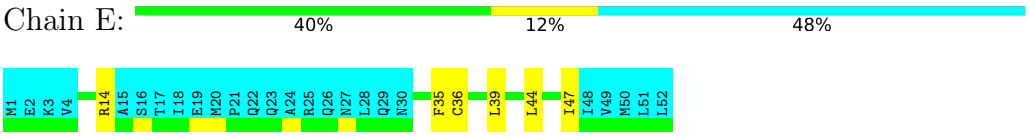
• Molecule 1: Cardiac phospholamban

Chain D:



• Molecule 1: Cardiac phospholamban

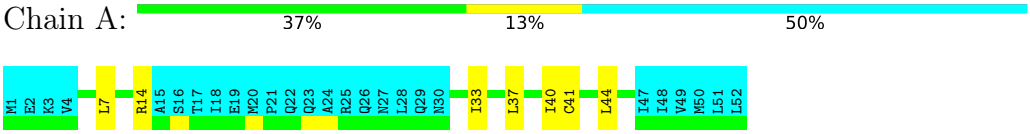
Chain E:



4.2.10 Score per residue for model 10

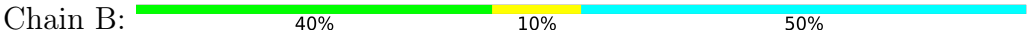
• Molecule 1: Cardiac phospholamban

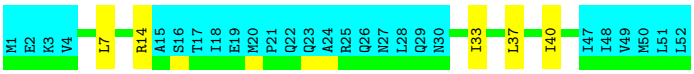
Chain A:



• Molecule 1: Cardiac phospholamban

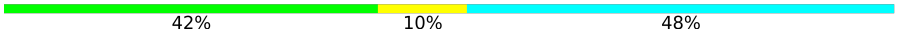
Chain B:





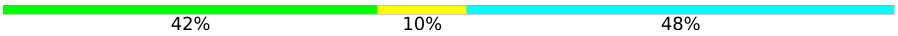
• Molecule 1: Cardiac phospholamban

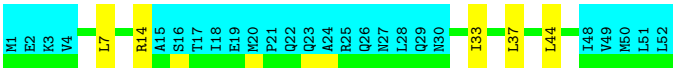
Chain C:



• Molecule 1: Cardiac phospholamban

Chain D:





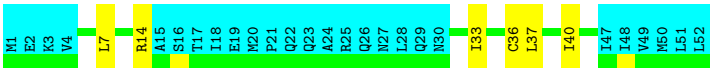
• Molecule 1: Cardiac phospholamban

Chain E:

4.2.11 Score per residue for model 11 (medoid)

• Molecule 1: Cardiac phospholamban

Chain A:

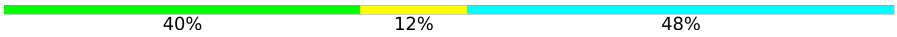


• Molecule 1: Cardiac phospholamban

Chain B:

• Molecule 1: Cardiac phospholamban

Chain C:

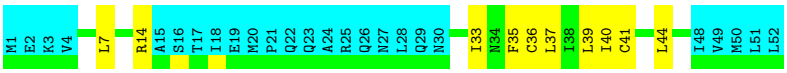


• Molecule 1: Cardiac phospholamban

Chain D:

• Molecule 1: Cardiac phospholamban

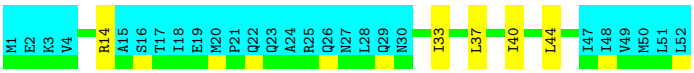
Chain E:



4.2.12 Score per residue for model 12

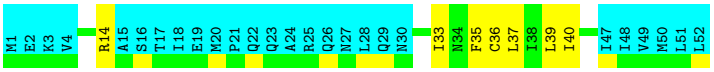
• Molecule 1: Cardiac phospholamban

Chain A:



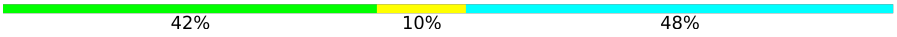
• Molecule 1: Cardiac phospholamban

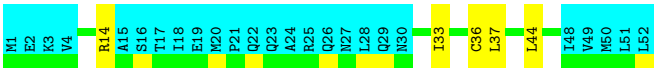
Chain B:



• Molecule 1: Cardiac phospholamban

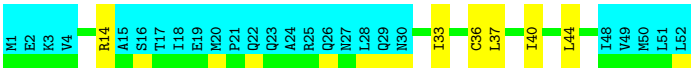
Chain C:





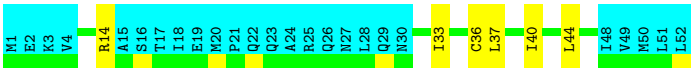
• Molecule 1: Cardiac phospholamban

Chain D:



• Molecule 1: Cardiac phospholamban

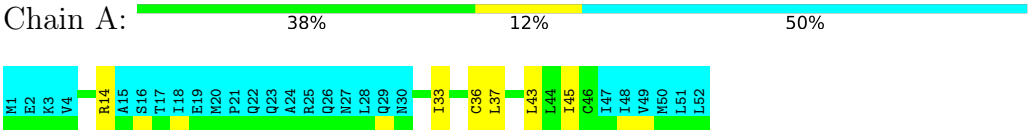
Chain E:



4.2.13 Score per residue for model 13

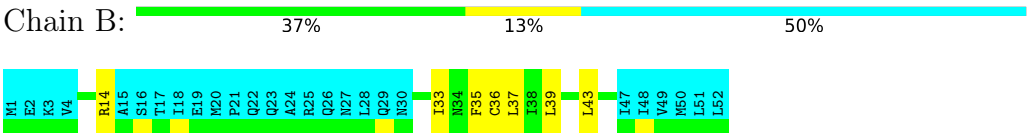
• Molecule 1: Cardiac phospholamban

Chain A:



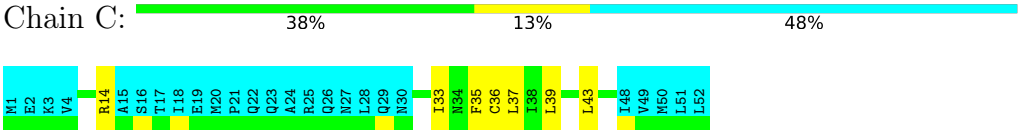
• Molecule 1: Cardiac phospholamban

Chain B:



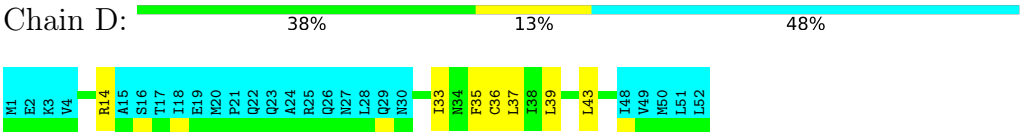
• Molecule 1: Cardiac phospholamban

Chain C:



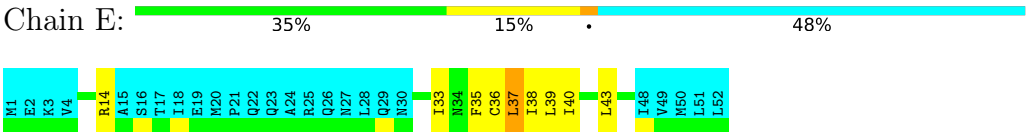
• Molecule 1: Cardiac phospholamban

Chain D:



• Molecule 1: Cardiac phospholamban

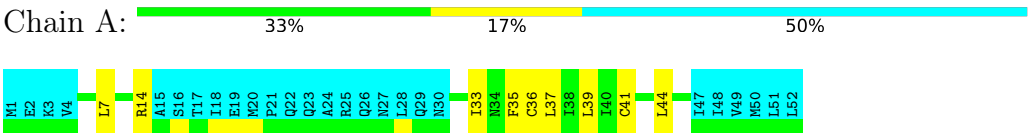
Chain E:



4.2.14 Score per residue for model 14

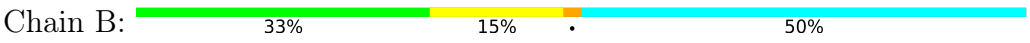
• Molecule 1: Cardiac phospholamban

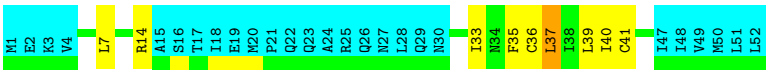
Chain A:



• Molecule 1: Cardiac phospholamban

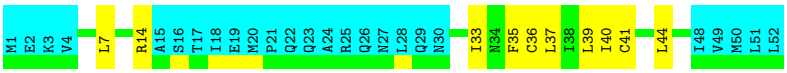
Chain B:





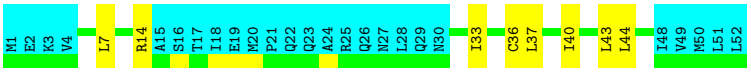
• Molecule 1: Cardiac phospholamban

Chain C:



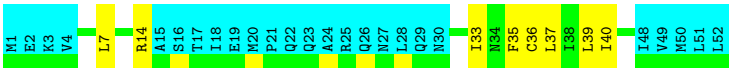
• Molecule 1: Cardiac phospholamban

Chain D:



• Molecule 1: Cardiac phospholamban

Chain E:



4.2.15 Score per residue for model 15

• Molecule 1: Cardiac phospholamban

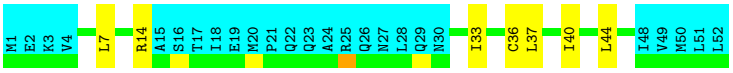
Chain A:

• Molecule 1: Cardiac phospholamban

Chain B:

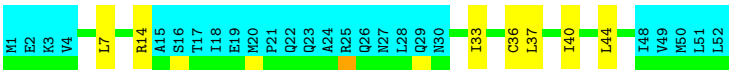
• Molecule 1: Cardiac phospholamban

Chain C:



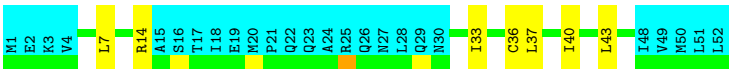
• Molecule 1: Cardiac phospholamban

Chain D:



• Molecule 1: Cardiac phospholamban

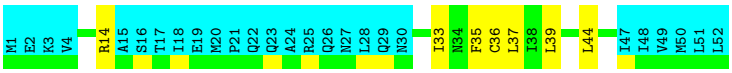
Chain E: 38% 13% 48%



4.2.16 Score per residue for model 16

• Molecule 1: Cardiac phospholamban

Chain A: 37% 13% 50%

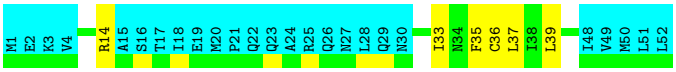


• Molecule 1: Cardiac phospholamban

Chain B: 38% 12% 50%

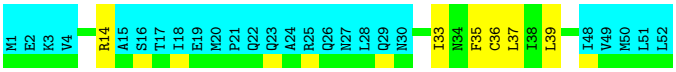
• Molecule 1: Cardiac phospholamban

Chain C: 40% 12% 48%



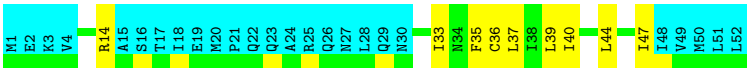
• Molecule 1: Cardiac phospholamban

Chain D: 40% 12% 48%



• Molecule 1: Cardiac phospholamban

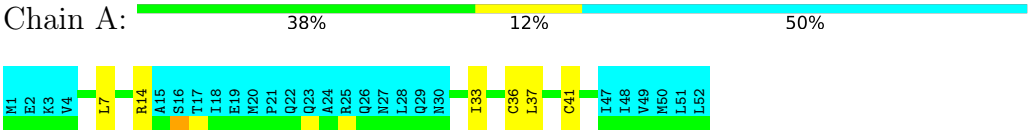
Chain E: 35% 17% 48%



4.2.17 Score per residue for model 17

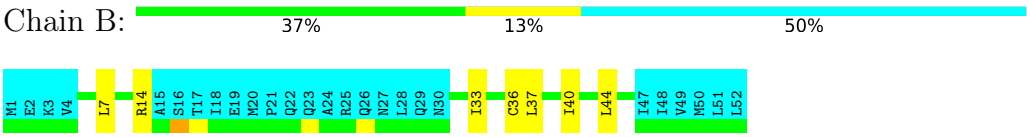
• Molecule 1: Cardiac phospholamban

Chain A:



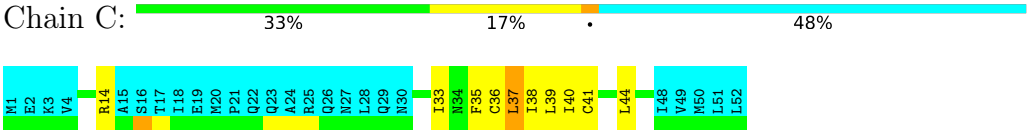
• Molecule 1: Cardiac phospholamban

Chain B:



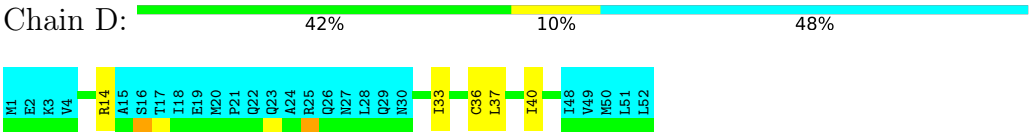
• Molecule 1: Cardiac phospholamban

Chain C:



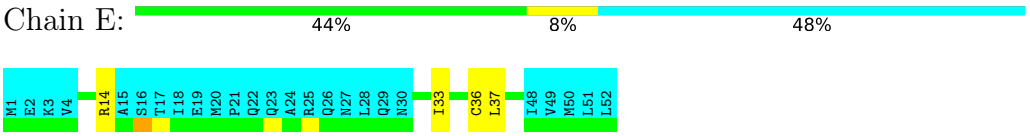
• Molecule 1: Cardiac phospholamban

Chain D:



• Molecule 1: Cardiac phospholamban

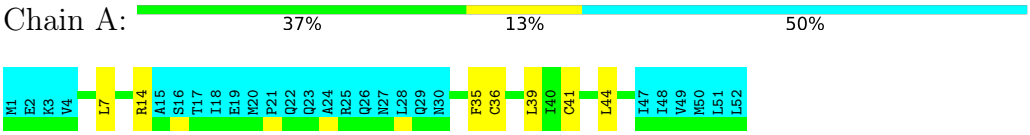
Chain E:



4.2.18 Score per residue for model 18

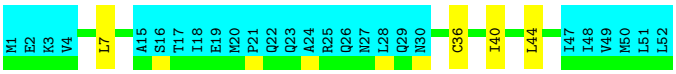
• Molecule 1: Cardiac phospholamban

Chain A:



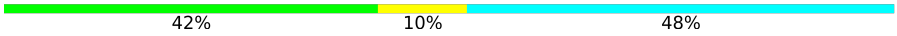
• Molecule 1: Cardiac phospholamban

Chain B:



• Molecule 1: Cardiac phospholamban

Chain C:

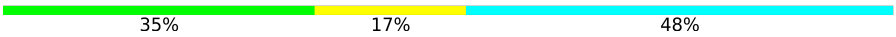


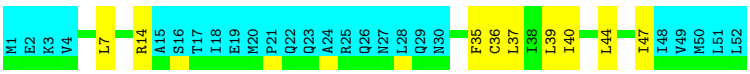
• Molecule 1: Cardiac phospholamban

Chain D:

• Molecule 1: Cardiac phospholamban

Chain E:

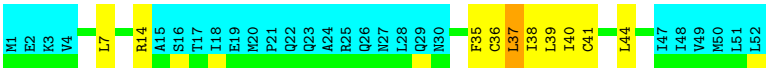




4.2.19 Score per residue for model 19

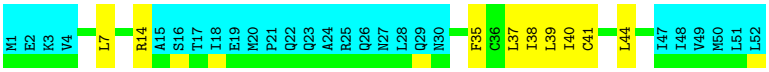
• Molecule 1: Cardiac phospholamban

Chain A:



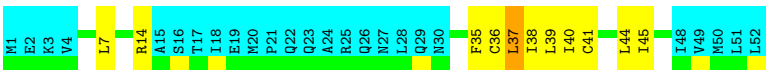
• Molecule 1: Cardiac phospholamban

Chain B:



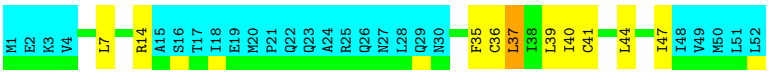
• Molecule 1: Cardiac phospholamban

Chain C:



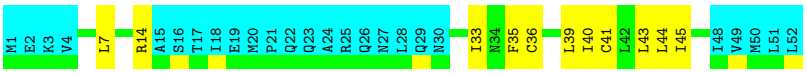
• Molecule 1: Cardiac phospholamban

Chain D:



• Molecule 1: Cardiac phospholamban

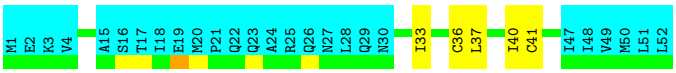
Chain E:



4.2.20 Score per residue for model 20

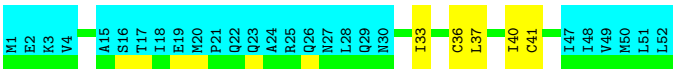
• Molecule 1: Cardiac phospholamban

Chain A:



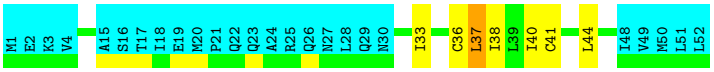
• Molecule 1: Cardiac phospholamban

Chain B:



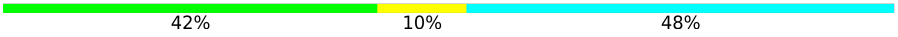
• Molecule 1: Cardiac phospholamban

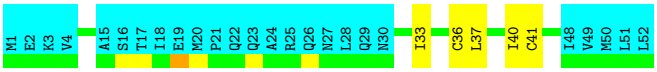
Chain C:



• Molecule 1: Cardiac phospholamban

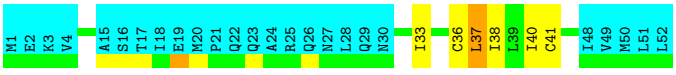
Chain D:





• Molecule 1: Cardiac phospholamban

Chain E:



5 Refinement protocol and experimental data overview

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

Of the 200 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
X-PLOR NIH	structure solution	2.33
X-PLOR NIH	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	98
Number of shifts mapped to atoms	98
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	2%

Note: This is a solid-state NMR structure, where hydrogen atoms are typically not assigned a chemical shift value, which may lead to lower completeness of assignment measure.

6 Model quality

6.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: SEP

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

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	216	244	244	5±3
1	B	216	244	244	6±2
1	C	224	255	255	6±3
1	D	224	255	255	6±4
1	E	224	255	255	7±3
All	All	22080	25060	25060	371

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 8.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:41:CYS:HG	1:D:36:CYS:HG	0.79	0.87	6	1
1:A:41:CYS:SG	1:B:40:ILE:HD11	0.72	2.24	18	7
1:B:41:CYS:SG	1:C:40:ILE:HD11	0.70	2.26	19	5
1:C:41:CYS:SG	1:D:40:ILE:HD11	0.70	2.27	19	7
1:D:41:CYS:SG	1:E:40:ILE:HD11	0.69	2.27	19	4
1:A:40:ILE:HD11	1:E:41:CYS:SG	0.68	2.28	11	7
1:A:37:LEU:CD1	1:B:33:ILE:HG23	0.65	2.21	10	11
1:B:37:LEU:CD1	1:C:33:ILE:HG23	0.64	2.21	10	11

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:D:37:LEU:CD1	1:E:33:ILE:HG23	0.64	2.22	10	13
1:A:33:ILE:HG23	1:E:37:LEU:CD1	0.63	2.23	10	11
1:C:37:LEU:CD1	1:D:33:ILE:HG23	0.63	2.22	10	11
1:A:40:ILE:HD12	1:E:44:LEU:CD1	0.59	2.27	11	4
1:C:44:LEU:HD23	1:D:43:LEU:HD23	0.58	1.73	2	1
1:A:37:LEU:HD11	1:B:33:ILE:HG23	0.58	1.74	10	6
1:C:44:LEU:CD1	1:D:40:ILE:HD12	0.58	2.27	20	4
1:B:37:LEU:HD11	1:C:33:ILE:HG23	0.58	1.74	10	8
1:A:44:LEU:HD23	1:B:43:LEU:HD23	0.57	1.75	2	1
1:D:44:LEU:HD23	1:E:43:LEU:HD23	0.57	1.75	2	1
1:D:37:LEU:HD11	1:E:33:ILE:HG23	0.57	1.77	10	9
1:C:37:LEU:HD11	1:D:33:ILE:HG23	0.56	1.76	10	7
1:A:33:ILE:HG23	1:E:37:LEU:HD11	0.56	1.77	10	7
1:D:44:LEU:CD1	1:E:40:ILE:HD12	0.56	2.31	19	3
1:A:44:LEU:CD1	1:B:40:ILE:HD12	0.56	2.30	18	3
1:B:44:LEU:CD1	1:C:40:ILE:HD12	0.55	2.31	19	1
1:A:44:LEU:CD1	1:B:40:ILE:HD13	0.54	2.33	1	2
1:A:44:LEU:HD11	1:B:40:ILE:HG23	0.54	1.77	3	4
1:D:44:LEU:HD11	1:E:40:ILE:HG23	0.53	1.79	3	4
1:B:41:CYS:HA	1:C:40:ILE:HD11	0.53	1.81	8	2
1:C:40:ILE:HG22	1:C:44:LEU:CD1	0.52	2.34	5	1
1:B:44:LEU:HD13	1:C:40:ILE:HD12	0.52	1.81	8	2
1:B:44:LEU:HD11	1:C:40:ILE:HG23	0.52	1.79	3	2
1:C:44:LEU:CD1	1:D:40:ILE:HD13	0.52	2.34	1	1
1:A:40:ILE:HG23	1:E:44:LEU:CD1	0.52	2.35	5	2
1:E:44:LEU:HA	1:E:47:ILE:HD12	0.52	1.82	6	8
1:D:44:LEU:HA	1:D:47:ILE:HD12	0.51	1.82	6	6
1:B:40:ILE:HG22	1:B:44:LEU:CD1	0.49	2.37	18	1
1:A:40:ILE:HD12	1:E:44:LEU:HD12	0.49	1.85	11	3
1:D:33:ILE:HG22	1:D:37:LEU:CD1	0.49	2.37	3	8
1:A:40:ILE:HG23	1:E:44:LEU:HD11	0.49	1.83	3	2
1:B:33:ILE:HG22	1:B:37:LEU:CD1	0.49	2.38	10	8
1:D:44:LEU:HB3	1:E:43:LEU:HD23	0.49	1.83	19	2
1:A:33:ILE:HG22	1:A:37:LEU:CD1	0.48	2.38	10	8
1:C:44:LEU:HD11	1:D:40:ILE:HG23	0.48	1.84	3	3
1:E:33:ILE:HG22	1:E:37:LEU:CD1	0.47	2.39	10	8
1:A:41:CYS:HA	1:B:40:ILE:HD11	0.47	1.86	8	1
1:D:35:PHE:CE2	1:D:39:LEU:HD11	0.47	2.45	16	5
1:C:33:ILE:HG22	1:C:37:LEU:CD1	0.47	2.40	10	7
1:E:37:LEU:O	1:E:40:ILE:N	0.47	2.48	5	7
1:A:40:ILE:HG23	1:E:44:LEU:HD13	0.47	1.87	5	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:40:ILE:CD1	1:E:44:LEU:HD13	0.47	2.39	7	1
1:E:35:PHE:CE2	1:E:39:LEU:HD11	0.47	2.45	16	6
1:B:44:LEU:CD1	1:C:40:ILE:HG23	0.47	2.39	19	3
1:B:44:LEU:HD13	1:C:40:ILE:HG23	0.47	1.85	1	3
1:E:35:PHE:CZ	1:E:39:LEU:HD11	0.47	2.45	13	8
1:D:44:LEU:CD1	1:E:40:ILE:HG23	0.46	2.40	5	4
1:D:44:LEU:HD12	1:E:40:ILE:HD12	0.46	1.88	19	1
1:A:37:LEU:O	1:A:40:ILE:N	0.46	2.47	5	2
1:C:44:LEU:HA	1:C:47:ILE:HD12	0.46	1.86	6	1
1:B:35:PHE:CZ	1:B:39:LEU:HD11	0.46	2.46	14	5
1:B:35:PHE:CE2	1:B:39:LEU:HD11	0.46	2.45	9	8
1:C:44:LEU:HD12	1:D:40:ILE:HD12	0.46	1.88	19	2
1:A:40:ILE:HD12	1:E:44:LEU:HD13	0.46	1.86	8	2
1:B:37:LEU:O	1:B:40:ILE:N	0.46	2.48	19	5
1:B:44:LEU:HD12	1:C:40:ILE:HD12	0.46	1.87	19	1
1:D:33:ILE:HG22	1:D:37:LEU:HD11	0.45	1.88	10	2
1:C:35:PHE:CE2	1:C:39:LEU:HD11	0.45	2.46	16	5
1:C:44:LEU:HB3	1:D:43:LEU:HD23	0.45	1.88	7	2
1:D:44:LEU:HD13	1:E:40:ILE:HG23	0.45	1.89	6	4
1:D:35:PHE:CZ	1:D:39:LEU:HD11	0.45	2.47	9	6
1:A:44:LEU:CD1	1:B:40:ILE:HG23	0.45	2.42	19	3
1:C:44:LEU:HD13	1:D:40:ILE:HD12	0.45	1.89	5	1
1:C:35:PHE:CZ	1:C:39:LEU:HD11	0.45	2.47	14	11
1:A:44:LEU:HD13	1:B:40:ILE:HD12	0.45	1.89	8	1
1:C:41:CYS:HA	1:D:40:ILE:HD11	0.44	1.89	8	1
1:A:35:PHE:CE2	1:A:39:LEU:HD11	0.44	2.48	16	5
1:E:33:ILE:HG22	1:E:37:LEU:HD11	0.44	1.90	10	1
1:C:44:LEU:CD1	1:D:40:ILE:HG23	0.44	2.42	19	3
1:A:40:ILE:HD11	1:E:41:CYS:HA	0.43	1.90	8	2
1:C:33:ILE:HG22	1:C:37:LEU:HD11	0.43	1.90	10	1
1:C:44:LEU:HD13	1:D:40:ILE:HG23	0.43	1.88	14	2
1:D:44:LEU:HD13	1:E:40:ILE:HD12	0.43	1.90	8	1
1:B:33:ILE:HG22	1:B:37:LEU:HD11	0.43	1.91	10	2
1:D:37:LEU:O	1:D:40:ILE:N	0.43	2.51	11	2
1:C:37:LEU:O	1:C:40:ILE:N	0.43	2.51	19	6
1:A:44:LEU:HB3	1:B:43:LEU:HD23	0.43	1.91	2	1
1:A:35:PHE:CZ	1:A:39:LEU:HD11	0.43	2.49	9	5
1:A:40:ILE:HD13	1:E:44:LEU:CD1	0.42	2.45	1	1
1:D:41:CYS:HA	1:E:40:ILE:HD11	0.42	1.91	8	1
1:A:44:LEU:HD12	1:B:40:ILE:HD13	0.42	1.92	1	1
1:A:33:ILE:HG22	1:A:37:LEU:HD11	0.41	1.91	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:E:40:ILE:HG22	1:E:44:LEU:CD1	0.41	2.46	5	1
1:A:7:LEU:HD13	1:A:7:LEU:C	0.40	2.36	1	1
1:E:7:LEU:O	1:E:7:LEU:HD13	0.40	2.17	4	1
1:A:44:LEU:HD13	1:B:40:ILE:HG23	0.40	1.94	14	1
1:B:7:LEU:HD13	1:B:7:LEU:C	0.40	2.37	17	1
1:A:7:LEU:C	1:A:7:LEU:HD13	0.40	2.37	17	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	26/52 (50%)	26±1 (99±2%)	0±0 (0±1%)	0±0 (1±2%)	29	74
1	B	26/52 (50%)	25±1 (98±3%)	0±1 (2±2%)	0±0 (1±2%)	20	68
1	C	27/52 (52%)	26±1 (97±4%)	0±1 (1±3%)	0±1 (2±3%)	11	53
1	D	27/52 (52%)	27±1 (99±2%)	0±0 (1±1%)	0±0 (0±1%)	38	78
1	E	27/52 (52%)	26±1 (96±4%)	1±1 (2±3%)	0±1 (1±2%)	18	66
All	All	2660/5200 (51%)	2600 (98%)	34 (1%)	26 (1%)	20	68

All 9 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	C	37	LEU	5
1	C	38	ILE	5
1	B	38	ILE	4
1	E	38	ILE	3
1	E	37	LEU	3
1	A	38	ILE	2
1	D	37	LEU	2
1	B	37	LEU	1
1	A	37	LEU	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	25/48 (52%)	23±1 (91±4%)	2±1 (9±4%)	13	59
1	B	25/48 (52%)	23±1 (92±3%)	2±1 (8±3%)	16	64
1	C	26/48 (54%)	23±1 (90±3%)	3±1 (10±3%)	10	55
1	D	26/48 (54%)	24±1 (91±3%)	2±1 (9±3%)	12	58
1	E	26/48 (54%)	24±1 (91±3%)	2±1 (9±3%)	12	58
All	All	2560/4800 (53%)	2323 (91%)	237 (9%)	12	59

All 20 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	C	36	CYS	20
1	A	14	ARG	19
1	C	14	ARG	19
1	D	14	ARG	19
1	E	14	ARG	19
1	D	36	CYS	18
1	E	36	CYS	18
1	B	14	ARG	16
1	A	36	CYS	14
1	B	36	CYS	11
1	A	7	LEU	10
1	B	7	LEU	10
1	C	7	LEU	10
1	D	7	LEU	10
1	E	7	LEU	9
1	C	44	LEU	5
1	A	44	LEU	3
1	E	44	LEU	3
1	B	44	LEU	2
1	D	44	LEU	2

6.3.3 RNA (i)

There are no RNA molecules in this entry.

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

5 non-standard protein/DNA/RNA residues are modelled in this entry.

In the following table, the Counts columns list the number of bonds for which Mogul statistics could be retrieved, the number of bonds that are observed in the model and the number of bonds that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length is the number of standard deviations the observed value is removed from the expected value. A bond length with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the average root-mean-square of all Z scores of the bond lengths.

Mol	Type	Chain	Res	Link	Bond lengths		
					Counts	RMSZ	#Z>2
1	SEP	B	16	1	8,9,10	1.33±0.25	1±0 (7±6%)
1	SEP	C	16	1	8,9,10	1.33±0.25	1±0 (7±6%)
1	SEP	E	16	1	8,9,10	1.33±0.25	1±0 (7±6%)
1	SEP	D	16	1	8,9,10	1.33±0.26	1±0 (7±6%)
1	SEP	A	16	1	8,9,10	1.33±0.26	1±0 (7±6%)

In the following table, the Counts columns list the number of angles for which Mogul statistics could be retrieved, the number of angles that are observed in the model and the number of angles that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond angle is the number of standard deviations the observed value is removed from the expected value. A bond angle with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the average root-mean-square of all Z scores of the bond angles.

Mol	Type	Chain	Res	Link	Bond angles		
					Counts	RMSZ	#Z>2
1	SEP	B	16	1	8,12,14	3.59±1.34	1±0 (18±6%)
1	SEP	C	16	1	8,12,14	3.61±1.38	2±0 (18±6%)
1	SEP	E	16	1	8,12,14	3.61±1.36	2±0 (18±6%)
1	SEP	D	16	1	8,12,14	3.62±1.36	2±0 (18±6%)
1	SEP	A	16	1	8,12,14	3.61±1.36	2±0 (19±6%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the chemical component dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means

no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	SEP	C	16	1	-	0±0,5,8,10	-
1	SEP	D	16	1	-	0±0,5,8,10	-
1	SEP	A	16	1	-	0±0,5,8,10	-
1	SEP	B	16	1	-	0±0,5,8,10	-
1	SEP	E	16	1	-	0±0,5,8,10	-

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	16	SEP	P-O1P	3.41	1.61	1.50	13	12
1	D	16	SEP	P-O1P	3.40	1.61	1.50	7	12
1	E	16	SEP	P-O1P	3.37	1.61	1.50	11	12
1	C	16	SEP	P-O1P	3.36	1.61	1.50	13	12
1	B	16	SEP	P-O1P	3.34	1.61	1.50	2	12

All unique angle 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(^{o})	Ideal(^{o})	Models	
								Worst	Total
1	C	16	SEP	P-OG-CB	19.05	170.76	118.30	5	20
1	E	16	SEP	P-OG-CB	18.97	170.56	118.30	5	20
1	B	16	SEP	P-OG-CB	18.91	170.38	118.30	5	20
1	D	16	SEP	P-OG-CB	18.87	170.28	118.30	5	20
1	A	16	SEP	P-OG-CB	18.85	170.22	118.30	5	20
1	A	16	SEP	OG-CB-CA	4.03	112.07	108.14	11	11
1	E	16	SEP	OG-CB-CA	3.36	111.41	108.14	6	10
1	B	16	SEP	OG-CB-CA	3.35	111.40	108.14	11	9
1	C	16	SEP	OG-CB-CA	3.35	111.40	108.14	6	10
1	D	16	SEP	OG-CB-CA	3.29	111.34	108.14	6	10

There are no chirality outliers.

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

Mol	Chain	Res	Type	Atoms	Models (Total)
1	A	16	SEP	CA-CB-OG-P	2
1	B	16	SEP	CA-CB-OG-P	2
1	C	16	SEP	CA-CB-OG-P	2

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Mol	Chain	Res	Type	Atoms	Models (Total)
1	D	16	SEP	CA-CB-OG-P	2
1	E	16	SEP	CA-CB-OG-P	2

There are no ring outliers.

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

The completeness of assignment taking into account all chemical shift lists is 2% for the well-defined parts and 2% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list_1*

7.1.1 Bookkeeping

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

Total number of shifts	98
Number of shifts mapped to atoms	98
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

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction ± precision, *ppm*	Suggested action
$^{13}C_{\alpha}$	0	—	None (insufficient data)
$^{13}C_{\beta}$	0	—	None (insufficient data)
$^{13}C'$	0	—	None (insufficient data)
^{15}N	48	0.98 ± 0.17	Should be applied

7.1.3 Completeness of resonance assignments

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 2%, i.e. 52 atoms were assigned a chemical shift out of a possible 2139. 0 out of 35 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	52/665 (8%)	26/266 (10%)	0/266 (0%)	26/133 (20%)
Sidechain	0/1329 (0%)	0/887 (0%)	0/387 (0%)	0/55 (0%)

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	Total	^{1}H	^{13}C	^{15}N
Aromatic	0/145 (0%)	0/70 (0%)	0/75 (0%)	0/0 (—%)
Overall	52/2139 (2%)	26/1223 (2%)	0/728 (0%)	26/188 (14%)

Note: This is a solid-state NMR structure, where hydrogen atoms are typically not assigned a chemical shift value, which may lead to lower completeness of assignment measure.

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 2%, i.e. 96 atoms were assigned a chemical shift out of a possible 3950. 0 out of 60 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	96/1265 (8%)	48/505 (10%)	0/510 (0%)	48/250 (19%)
Sidechain	0/2540 (0%)	0/1680 (0%)	0/755 (0%)	0/105 (0%)
Aromatic	0/145 (0%)	0/70 (0%)	0/75 (0%)	0/0 (—%)
Overall	96/3950 (2%)	48/2255 (2%)	0/1340 (0%)	48/355 (14%)

Note: This is a solid-state NMR structure, where hydrogen atoms are typically not assigned a chemical shift value, which may lead to lower completeness of assignment measure.

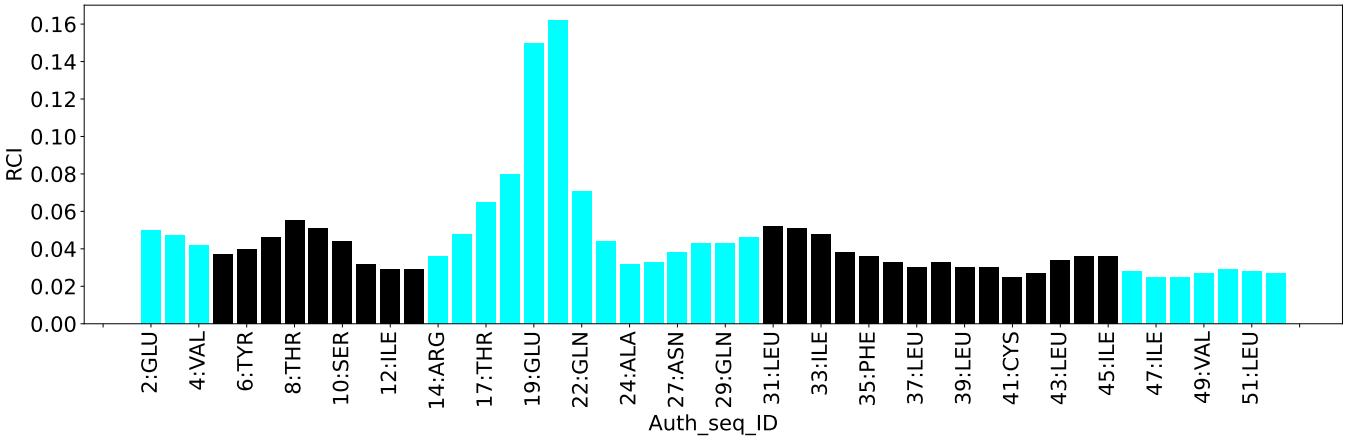
7.1.4 Statistically unusual chemical shifts (i)

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 B:


RCI
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
2:GLU
4:VAL
6:TYR
8:THR
10:SER
12:ILE
14:ARG
17:THR
19:GLU
22:GLN
24:ALA
27:ASN
29:GLN
31:LEU
33:ILE
35:PHE
37:LEU
39:LEU
41:CYS
43:LEU
45:ILE
47:ILE
49:VAL
51:LEU
Auth_seq_ID

8 NMR restraints analysis

8.1 Conformationally restricting restraints

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

Description	Value
Total distance restraints	2982
Intra-residue (|i-j|=0)	875
Sequential (|i-j|=1)	700
Medium range (|i-j|>1 and |i-j|<5)	495
Long range (|i-j|≥5)	0
Inter-chain	912
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	430
Number of unmapped restraints	0
Number of restraints per residue	13.1
Number of long range restraints per residue[1]	0.0

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

8.2 Residual restraint violations

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

8.2.1 Average number of distance violations per model

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

Bins (Å)	Average number of violations per model	Max (Å)
0.1-0.2 (Small)	96.3	0.2
0.2-0.5 (Medium)	36.5	0.5
>0.5 (Large)	37.4	3.12

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

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

Bins (°)	Average number of violations per model	Max (°)
1.0-10.0 (Small)	20.0	10.0
10.0-20.0 (Medium)	11.2	19.9
>20.0 (Large)	19.7	168.1

9 Distance violation analysis (i)

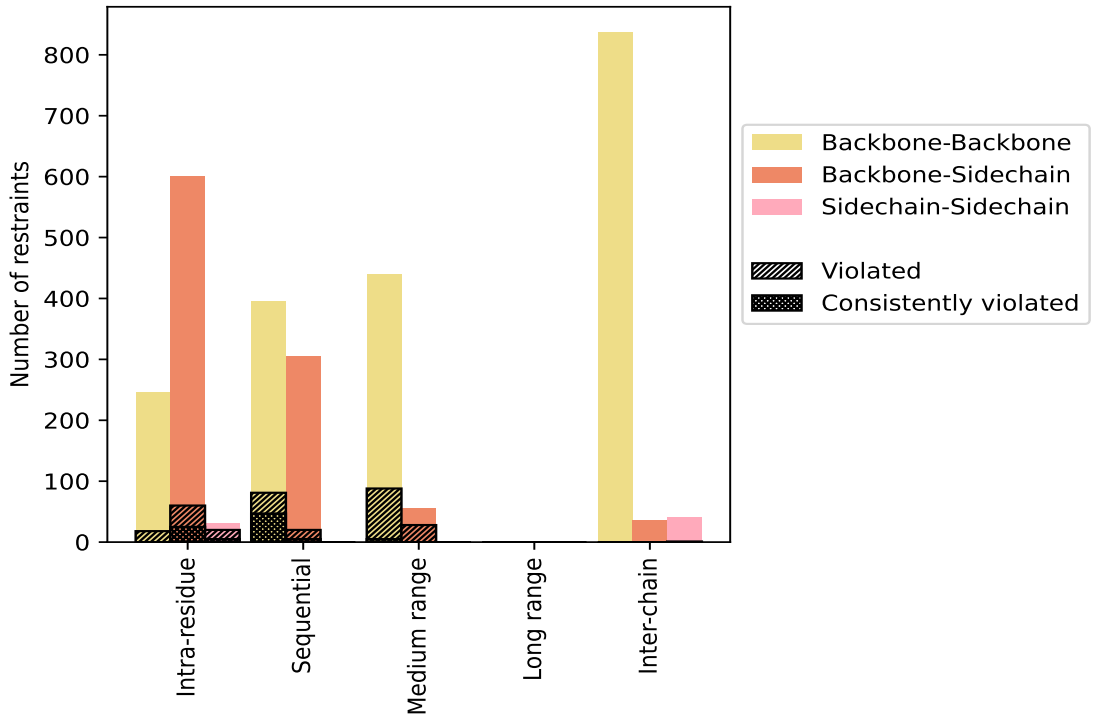
9.1 Summary of distance violations (i)

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)	875	29.3	98	11.2	3.3	30	3.4	1.0
Backbone-Backbone	245	8.2	18	7.3	0.6	0	0.0	0.0
Backbone-Sidechain	600	20.1	60	10.0	2.0	25	4.2	0.8
Sidechain-Sidechain	30	1.0	20	66.7	0.7	5	16.7	0.2
Sequential (|i-j|=1)	700	23.5	101	14.4	3.4	52	7.4	1.7
Backbone-Backbone	395	13.2	81	20.5	2.7	47	11.9	1.6
Backbone-Sidechain	305	10.2	20	6.6	0.7	5	1.6	0.2
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Medium range (|i-j|>1 & |i-j|<5)	495	16.6	116	23.4	3.9	5	1.0	0.2
Backbone-Backbone	440	14.8	88	20.0	3.0	5	1.1	0.2
Backbone-Sidechain	55	1.8	28	50.9	0.9	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Long range (|i-j|≥5)	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
Inter-chain	912	30.6	1	0.1	0.0	0	0.0	0.0
Backbone-Backbone	837	28.1	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	35	1.2	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	40	1.3	1	2.5	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	2982	100.0	316	10.6	10.6	87	2.9	2.9
Backbone-Backbone	1917	64.3	187	9.8	6.3	52	2.7	1.7
Backbone-Sidechain	995	33.4	108	10.9	3.6	30	3.0	1.0
Sidechain-Sidechain	70	2.3	21	30.0	0.7	5	7.1	0.2

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

9.1.1 Bar chart : Distribution of distance restraints and violations



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

9.2 Distance violation statistics for each model

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

Model ID	Number of violations						Mean (Å)	Max (Å)	SD[6] (Å)	Median (Å)
	IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total				
1	46	73	25	0	0	144	0.33	1.47	0.31	0.17
2	55	65	57	0	0	177	0.32	1.8	0.33	0.18
3	54	80	47	0	0	181	0.49	2.6	0.58	0.2
4	50	70	36	0	0	156	0.36	1.41	0.33	0.18
5	50	75	52	0	0	177	0.35	1.64	0.37	0.18
6	47	70	48	0	0	165	0.37	2.85	0.51	0.16
7	38	72	46	0	0	156	0.28	1.01	0.24	0.17
8	54	70	65	0	1	190	0.51	2.4	0.57	0.19
9	35	75	50	0	0	160	0.41	2.35	0.49	0.19
10	42	68	51	0	0	161	0.42	2.47	0.51	0.17
11	46	84	40	0	0	170	0.36	3.12	0.54	0.17

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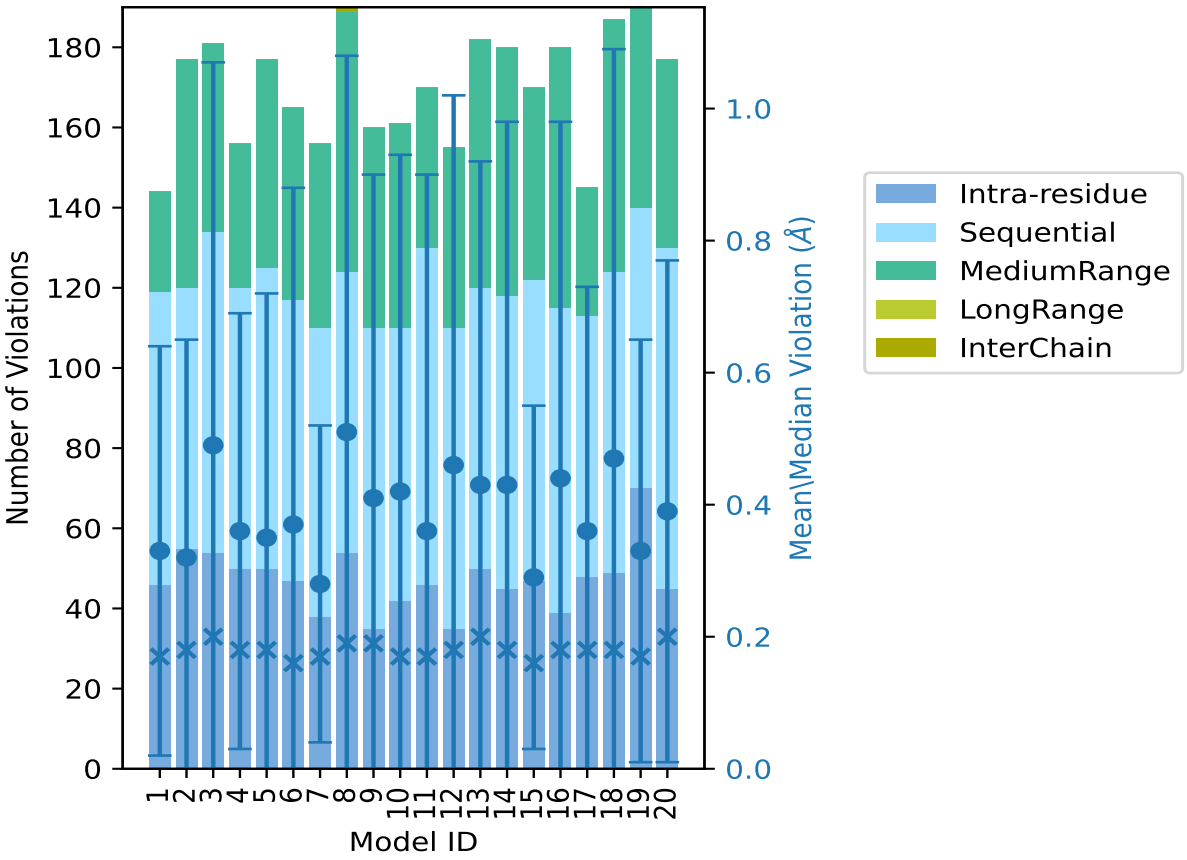
Model ID	Number of violations						Mean (Å)	Max (Å)	SD[6] (Å)	Median (Å)
	IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total				
12	35	75	45	0	0	155	0.46	2.58	0.56	0.18
13	50	70	62	0	0	182	0.43	2.04	0.49	0.2
14	45	73	62	0	0	180	0.43	3.1	0.55	0.18
15	47	75	48	0	0	170	0.29	1.08	0.26	0.16
16	39	76	65	0	0	180	0.44	2.97	0.54	0.18
17	48	65	32	0	0	145	0.36	1.67	0.37	0.18
18	49	75	63	0	0	187	0.47	2.91	0.62	0.18
19	70	70	50	0	0	190	0.33	1.48	0.32	0.17
20	45	85	47	0	0	177	0.39	1.53	0.38	0.2

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

9.2.1 Bar graph : Distance Violation statistics for each model



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

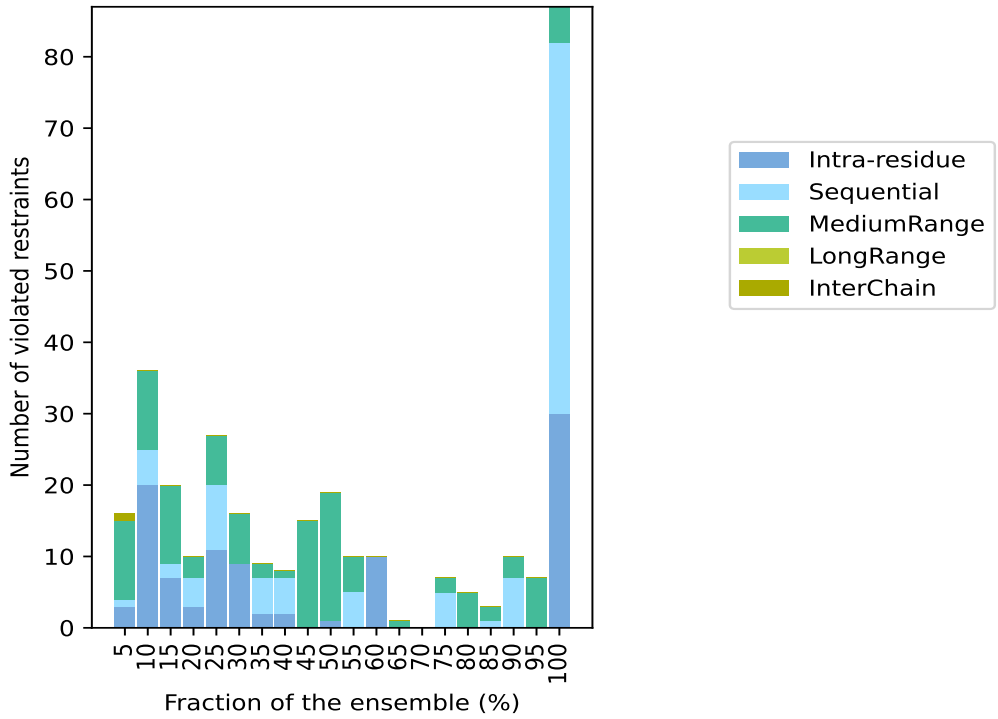
9.3 Distance violation statistics for the ensemble (i)

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, 2666(IR:777, SQ:599, MR:379, LR:0, IC:911) 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	1	11	0	1	16	1	5.0
20	5	11	0	0	36	2	10.0
7	2	11	0	0	20	3	15.0
3	4	3	0	0	10	4	20.0
11	9	7	0	0	27	5	25.0
9	0	7	0	0	16	6	30.0
2	5	2	0	0	9	7	35.0
2	5	1	0	0	8	8	40.0
0	0	15	0	0	15	9	45.0
1	0	18	0	0	19	10	50.0
0	5	5	0	0	10	11	55.0
10	0	0	0	0	10	12	60.0
0	0	1	0	0	1	13	65.0
0	0	0	0	0	0	14	70.0
0	5	2	0	0	7	15	75.0
0	0	5	0	0	5	16	80.0
0	1	2	0	0	3	17	85.0
0	7	3	0	0	10	18	90.0
0	0	7	0	0	7	19	95.0
30	52	5	0	0	87	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

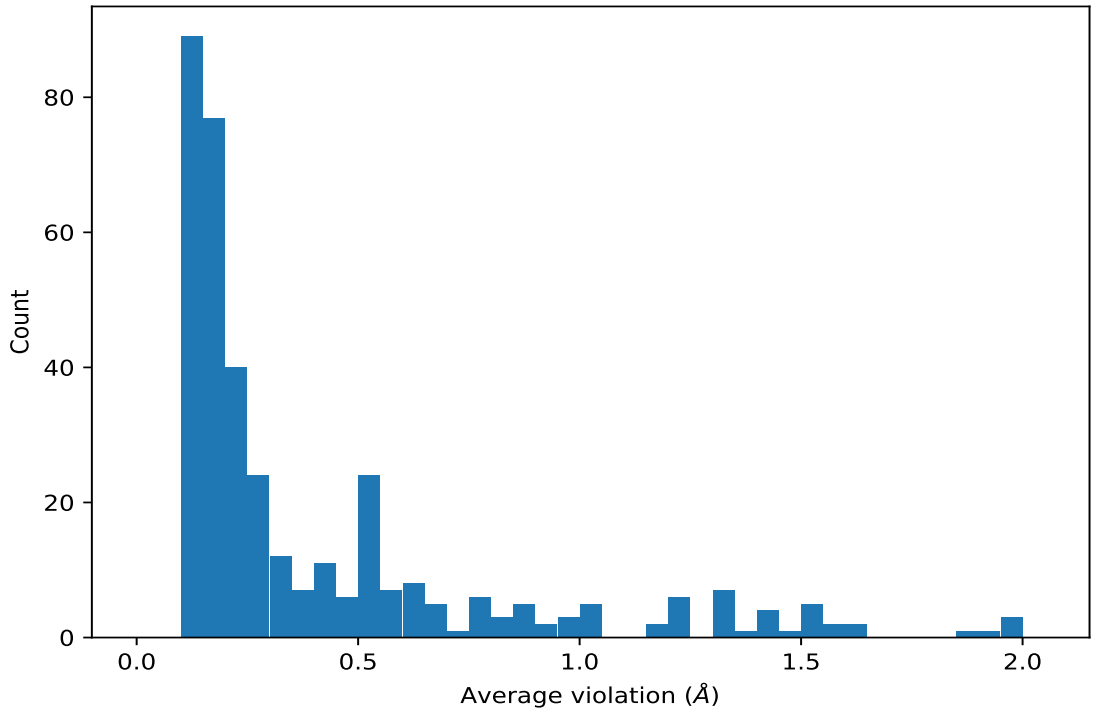
9.3.1 Bar graph : Distance violation statistics for the ensemble



9.4 Most violated distance restraints in the ensemble

9.4.1 Histogram : Distribution of mean distance violations

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



9.4.2 Table: Most violated distance restraints (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)
(2,202)	1:A:31:LEU:H	1:A:31:LEU:HG	20	1.03	0.02	1.03
(2,616)	1:B:31:LEU:H	1:B:31:LEU:HG	20	1.03	0.02	1.03
(2,1444)	1:D:31:LEU:H	1:D:31:LEU:HG	20	1.03	0.03	1.03
(2,1030)	1:C:31:LEU:H	1:C:31:LEU:HG	20	1.03	0.03	1.03
(2,1858)	1:E:31:LEU:H	1:E:31:LEU:HG	20	1.03	0.03	1.03
(2,1851)	1:E:31:LEU:H	1:E:27:ASN:HA	20	0.96	0.56	0.77
(2,1437)	1:D:31:LEU:H	1:D:27:ASN:HA	20	0.96	0.57	0.77
(2,195)	1:A:31:LEU:H	1:A:27:ASN:HA	20	0.95	0.57	0.78
(2,1023)	1:C:31:LEU:H	1:C:27:ASN:HA	20	0.94	0.57	0.76
(2,609)	1:B:31:LEU:H	1:B:27:ASN:HA	20	0.94	0.57	0.7
(2,1836)	1:E:29:GLN:H	1:E:29:GLN:HG2	20	0.53	0.06	0.52
(2,1836)	1:E:29:GLN:H	1:E:29:GLN:HG3	20	0.53	0.06	0.52
(2,1008)	1:C:29:GLN:H	1:C:29:GLN:HG2	20	0.53	0.06	0.53
(2,1008)	1:C:29:GLN:H	1:C:29:GLN:HG3	20	0.53	0.06	0.53
(2,594)	1:B:29:GLN:H	1:B:29:GLN:HG2	20	0.53	0.06	0.52
(2,594)	1:B:29:GLN:H	1:B:29:GLN:HG3	20	0.53	0.06	0.52

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,180)	1:A:29:GLN:H	1:A:29:GLN:HG2	20	0.53	0.06	0.52
(2,180)	1:A:29:GLN:H	1:A:29:GLN:HG3	20	0.53	0.06	0.52
(2,1422)	1:D:29:GLN:H	1:D:29:GLN:HG2	20	0.53	0.06	0.52
(2,1422)	1:D:29:GLN:H	1:D:29:GLN:HG3	20	0.53	0.06	0.52
(2,1859)	1:E:32:PHE:H	1:E:31:LEU:HB2	20	0.49	0.05	0.5
(2,203)	1:A:32:PHE:H	1:A:31:LEU:HB2	20	0.49	0.05	0.5
(2,1445)	1:D:32:PHE:H	1:D:31:LEU:HB2	20	0.49	0.05	0.5
(2,1031)	1:C:32:PHE:H	1:C:31:LEU:HB2	20	0.49	0.05	0.49
(2,617)	1:B:32:PHE:H	1:B:31:LEU:HB2	20	0.49	0.05	0.49
(2,1882)	1:E:27:ASN:HD22	1:E:27:ASN:HB3	20	0.24	0.2	0.15
(2,640)	1:B:27:ASN:HD22	1:B:27:ASN:HB3	20	0.24	0.2	0.15
(2,1468)	1:D:27:ASN:HD22	1:D:27:ASN:HB3	20	0.24	0.2	0.15
(2,226)	1:A:27:ASN:HD22	1:A:27:ASN:HB3	20	0.24	0.2	0.15
(2,1054)	1:C:27:ASN:HD22	1:C:27:ASN:HB3	20	0.24	0.2	0.15
(2,229)	1:A:34:ASN:H	1:A:34:ASN:HB3	20	0.23	0.04	0.23
(2,1471)	1:D:34:ASN:H	1:D:34:ASN:HB3	20	0.22	0.03	0.23
(2,1885)	1:E:34:ASN:H	1:E:34:ASN:HB3	20	0.22	0.03	0.23
(2,643)	1:B:34:ASN:H	1:B:34:ASN:HB3	20	0.22	0.03	0.23
(2,1057)	1:C:34:ASN:H	1:C:34:ASN:HB3	20	0.22	0.03	0.23
(2,1462)	1:D:34:ASN:H	1:D:33:ILE:HA	20	0.19	0.02	0.18
(2,634)	1:B:34:ASN:H	1:B:33:ILE:HA	20	0.19	0.02	0.19
(2,220)	1:A:34:ASN:H	1:A:33:ILE:HA	20	0.19	0.02	0.18
(2,1876)	1:E:34:ASN:H	1:E:33:ILE:HA	20	0.19	0.02	0.18
(2,1048)	1:C:34:ASN:H	1:C:33:ILE:HA	20	0.19	0.02	0.18
(2,7)	1:A:3:LYS:H	1:A:3:LYS:HB3	20	0.18	0.01	0.18
(2,421)	1:B:3:LYS:H	1:B:3:LYS:HB3	20	0.18	0.01	0.18
(2,1249)	1:D:3:LYS:H	1:D:3:LYS:HB3	20	0.18	0.01	0.18
(2,1663)	1:E:3:LYS:H	1:E:3:LYS:HB3	20	0.18	0.01	0.18
(2,835)	1:C:3:LYS:H	1:C:3:LYS:HB3	20	0.18	0.01	0.18
(2,1898)	1:E:36:CYS:H	1:E:35:PHE:HA	20	0.18	0.01	0.18
(2,1070)	1:C:36:CYS:H	1:C:35:PHE:HA	20	0.17	0.01	0.18
(2,2045)	1:E:50:MET:H	1:E:50:MET:HB3	20	0.17	0.03	0.16
(2,389)	1:A:50:MET:H	1:A:50:MET:HB3	20	0.17	0.03	0.17
(2,803)	1:B:50:MET:H	1:B:50:MET:HB3	20	0.17	0.02	0.17
(2,1484)	1:D:36:CYS:H	1:D:35:PHE:HA	20	0.17	0.01	0.17
(2,242)	1:A:36:CYS:H	1:A:35:PHE:HA	20	0.17	0.01	0.17
(2,656)	1:B:36:CYS:H	1:B:35:PHE:HA	20	0.17	0.01	0.16
(2,1631)	1:D:50:MET:H	1:D:50:MET:HB3	20	0.16	0.03	0.16
(2,1449)	1:D:32:PHE:H	1:D:31:LEU:HA	20	0.16	0.01	0.16
(2,1217)	1:C:50:MET:H	1:C:50:MET:HB3	20	0.16	0.03	0.16
(2,207)	1:A:32:PHE:H	1:A:31:LEU:HA	20	0.16	0.01	0.16
(2,621)	1:B:32:PHE:H	1:B:31:LEU:HA	20	0.16	0.01	0.16

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,1035)	1:C:32:PHE:H	1:C:31:LEU:HA	20	0.16	0.01	0.16
(2,1863)	1:E:32:PHE:H	1:E:31:LEU:HA	20	0.16	0.01	0.16
(2,2030)	1:E:49:VAL:H	1:E:48:ILE:HA	20	0.16	0.01	0.16
(2,374)	1:A:49:VAL:H	1:A:48:ILE:HA	20	0.15	0.01	0.16
(2,1202)	1:C:49:VAL:H	1:C:48:ILE:HA	20	0.15	0.01	0.15
(2,1616)	1:D:49:VAL:H	1:D:48:ILE:HA	20	0.15	0.01	0.15
(2,788)	1:B:49:VAL:H	1:B:48:ILE:HA	20	0.15	0.01	0.15
(2,1477)	1:D:35:PHE:H	1:D:34:ASN:HA	20	0.15	0.01	0.15
(2,235)	1:A:35:PHE:H	1:A:34:ASN:HA	20	0.15	0.01	0.15
(2,1891)	1:E:35:PHE:H	1:E:34:ASN:HA	20	0.15	0.01	0.15
(2,649)	1:B:35:PHE:H	1:B:34:ASN:HA	20	0.15	0.01	0.15
(2,1063)	1:C:35:PHE:H	1:C:34:ASN:HA	20	0.15	0.01	0.15
(2,851)	1:C:6:TYR:H	1:C:5:GLN:HA	20	0.15	0.01	0.15
(2,1273)	1:D:7:LEU:H	1:D:6:TYR:HA	20	0.15	0.01	0.15
(2,445)	1:B:7:LEU:H	1:B:6:TYR:HA	20	0.15	0.01	0.15
(2,23)	1:A:6:TYR:H	1:A:5:GLN:HA	20	0.15	0.01	0.15
(2,859)	1:C:7:LEU:H	1:C:6:TYR:HA	20	0.15	0.0	0.15
(2,1265)	1:D:6:TYR:H	1:D:5:GLN:HA	20	0.15	0.01	0.15
(2,1679)	1:E:6:TYR:H	1:E:5:GLN:HA	20	0.15	0.01	0.15
(2,31)	1:A:7:LEU:H	1:A:6:TYR:HA	20	0.15	0.01	0.14
(2,437)	1:B:6:TYR:H	1:B:5:GLN:HA	20	0.15	0.01	0.15
(2,1687)	1:E:7:LEU:H	1:E:6:TYR:HA	20	0.15	0.01	0.15
(2,408)	1:A:52:LEU:H	1:A:51:LEU:HA	20	0.14	0.02	0.14
(2,899)	1:C:12:ILE:H	1:C:11:ALA:HA	20	0.14	0.01	0.14
(2,71)	1:A:12:ILE:H	1:A:11:ALA:HA	20	0.14	0.0	0.14
(2,485)	1:B:12:ILE:H	1:B:11:ALA:HA	20	0.14	0.01	0.14
(2,1727)	1:E:12:ILE:H	1:E:11:ALA:HA	20	0.14	0.0	0.14
(2,1313)	1:D:12:ILE:H	1:D:11:ALA:HA	20	0.14	0.0	0.14
(2,2064)	1:E:52:LEU:H	1:E:51:LEU:HA	20	0.14	0.02	0.14
(2,499)	1:B:13:ARG:H	1:B:12:ILE:HA	20	0.13	0.03	0.12
(2,1741)	1:E:13:ARG:H	1:E:12:ILE:HA	20	0.12	0.01	0.12
(2,1327)	1:D:13:ARG:H	1:D:12:ILE:HA	20	0.12	0.01	0.12
(2,85)	1:A:13:ARG:H	1:A:12:ILE:HA	20	0.12	0.01	0.12
(2,913)	1:C:13:ARG:H	1:C:12:ILE:HA	20	0.12	0.01	0.12
(2,1874)	1:E:34:ASN:H	1:E:31:LEU:HA	19	0.87	0.34	0.75
(2,632)	1:B:34:ASN:H	1:B:31:LEU:HA	19	0.87	0.33	0.78
(2,1460)	1:D:34:ASN:H	1:D:31:LEU:HA	19	0.87	0.33	0.75
(2,218)	1:A:34:ASN:H	1:A:31:LEU:HA	19	0.86	0.33	0.76
(2,1046)	1:C:34:ASN:H	1:C:31:LEU:HA	19	0.86	0.33	0.74
(2,1314)	1:D:12:ILE:H	1:D:9:ARG:HA	19	0.17	0.05	0.17
(2,72)	1:A:12:ILE:H	1:A:9:ARG:HA	19	0.16	0.05	0.14
(2,1992)	1:E:45:ILE:H	1:E:42:LEU:HA	18	0.24	0.08	0.24

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,1728)	1:E:12:ILE:H	1:E:9:ARG:HA	18	0.17	0.04	0.16
(2,900)	1:C:12:ILE:H	1:C:9:ARG:HA	18	0.16	0.04	0.15
(2,1650)	1:D:52:LEU:H	1:D:51:LEU:HA	18	0.13	0.01	0.13
(2,1236)	1:C:52:LEU:H	1:C:51:LEU:HA	18	0.13	0.02	0.13
(2,1754)	1:E:15:ALA:H	1:E:14:ARG:HA	18	0.13	0.01	0.13
(2,1340)	1:D:15:ALA:H	1:D:14:ARG:HA	18	0.13	0.01	0.13
(2,926)	1:C:15:ALA:H	1:C:14:ARG:HA	18	0.13	0.01	0.13
(2,512)	1:B:15:ALA:H	1:B:14:ARG:HA	18	0.13	0.01	0.13
(2,98)	1:A:15:ALA:H	1:A:14:ARG:HA	18	0.13	0.01	0.13
(2,1578)	1:D:45:ILE:H	1:D:42:LEU:HA	17	0.25	0.08	0.24
(2,302)	1:A:42:LEU:H	1:A:39:LEU:HA	17	0.21	0.07	0.19
(2,822)	1:B:52:LEU:H	1:B:51:LEU:HA	17	0.13	0.02	0.13
(2,336)	1:A:45:ILE:H	1:A:42:LEU:HA	16	0.25	0.07	0.24
(2,1164)	1:C:45:ILE:H	1:C:42:LEU:HA	16	0.24	0.06	0.22
(2,716)	1:B:42:LEU:H	1:B:39:LEU:HA	16	0.21	0.08	0.2
(2,1130)	1:C:42:LEU:H	1:C:39:LEU:HA	16	0.21	0.07	0.19
(2,486)	1:B:12:ILE:H	1:B:9:ARG:HA	16	0.17	0.04	0.18
(2,1438)	1:D:31:LEU:H	1:D:30:ASN:HD21	15	0.35	0.08	0.33
(2,1852)	1:E:31:LEU:H	1:E:30:ASN:HD21	15	0.34	0.08	0.32
(2,1024)	1:C:31:LEU:H	1:C:30:ASN:HD21	15	0.34	0.08	0.34
(2,196)	1:A:31:LEU:H	1:A:30:ASN:HD21	15	0.33	0.08	0.33
(2,610)	1:B:31:LEU:H	1:B:30:ASN:HD21	15	0.33	0.08	0.32
(2,750)	1:B:45:ILE:H	1:B:42:LEU:HA	15	0.26	0.07	0.24
(2,1544)	1:D:42:LEU:H	1:D:39:LEU:HA	15	0.2	0.08	0.18
(2,1958)	1:E:42:LEU:H	1:E:39:LEU:HA	13	0.22	0.08	0.21
(2,1771)	1:E:18:ILE:H	1:E:18:ILE:HB	12	0.29	0.09	0.27
(2,115)	1:A:18:ILE:H	1:A:18:ILE:HB	12	0.29	0.1	0.27
(2,1357)	1:D:18:ILE:H	1:D:18:ILE:HB	12	0.29	0.09	0.27
(2,943)	1:C:18:ILE:H	1:C:18:ILE:HB	12	0.29	0.09	0.26
(2,529)	1:B:18:ILE:H	1:B:18:ILE:HB	12	0.29	0.09	0.27
(2,124)	1:A:19:GLU:H	1:A:19:GLU:HA	12	0.16	0.02	0.16
(2,538)	1:B:19:GLU:H	1:B:19:GLU:HA	12	0.16	0.02	0.16
(2,1366)	1:D:19:GLU:H	1:D:19:GLU:HA	12	0.15	0.01	0.16
(2,952)	1:C:19:GLU:H	1:C:19:GLU:HA	12	0.15	0.01	0.16
(2,1780)	1:E:19:GLU:H	1:E:19:GLU:HA	12	0.15	0.02	0.16
(2,1808)	1:E:26:GLN:H	1:E:24:ALA:H	11	1.51	0.65	1.69
(2,152)	1:A:26:GLN:H	1:A:24:ALA:H	11	1.5	0.67	1.73
(2,1394)	1:D:26:GLN:H	1:D:24:ALA:H	11	1.49	0.66	1.71
(2,541)	1:B:20:MET:H	1:B:18:ILE:HG12	11	1.22	0.97	1.01
(2,541)	1:B:20:MET:H	1:B:18:ILE:HG13	11	1.22	0.97	1.01
(2,955)	1:C:20:MET:H	1:C:18:ILE:HG12	11	1.22	0.96	1.01
(2,955)	1:C:20:MET:H	1:C:18:ILE:HG13	11	1.22	0.96	1.01

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,112)	1:A:18:ILE:H	1:A:17:THR:HA	11	0.69	0.1	0.72
(2,526)	1:B:18:ILE:H	1:B:17:THR:HA	11	0.69	0.1	0.71
(2,1768)	1:E:18:ILE:H	1:E:17:THR:HA	11	0.69	0.1	0.72
(2,940)	1:C:18:ILE:H	1:C:17:THR:HA	11	0.68	0.1	0.72
(2,1354)	1:D:18:ILE:H	1:D:17:THR:HA	11	0.68	0.1	0.72
(2,1818)	1:E:28:LEU:H	1:E:24:ALA:HA	10	1.6	0.81	1.5
(2,576)	1:B:28:LEU:H	1:B:24:ALA:HA	10	1.6	0.78	1.51
(2,1404)	1:D:28:LEU:H	1:D:24:ALA:HA	10	1.58	0.78	1.51
(2,566)	1:B:26:GLN:H	1:B:24:ALA:H	10	1.56	0.67	1.8
(2,990)	1:C:28:LEU:H	1:C:24:ALA:HA	10	1.54	0.8	1.38
(2,162)	1:A:28:LEU:H	1:A:24:ALA:HA	10	1.53	0.8	1.38
(2,980)	1:C:26:GLN:H	1:C:24:ALA:H	10	1.52	0.63	1.8
(2,1783)	1:E:20:MET:H	1:E:18:ILE:HG12	10	1.34	0.94	1.04
(2,1783)	1:E:20:MET:H	1:E:18:ILE:HG13	10	1.34	0.94	1.04
(2,1369)	1:D:20:MET:H	1:D:18:ILE:HG12	10	1.34	0.95	1.04
(2,1369)	1:D:20:MET:H	1:D:18:ILE:HG13	10	1.34	0.95	1.04
(2,127)	1:A:20:MET:H	1:A:18:ILE:HG12	10	1.33	0.94	1.04
(2,127)	1:A:20:MET:H	1:A:18:ILE:HG13	10	1.33	0.94	1.04
(2,1158)	1:C:44:LEU:H	1:C:44:LEU:HG	10	0.6	0.11	0.58
(2,194)	1:A:31:LEU:H	1:A:28:LEU:HA	10	0.34	0.16	0.3
(2,1850)	1:E:31:LEU:H	1:E:28:LEU:HA	10	0.33	0.16	0.3
(2,608)	1:B:31:LEU:H	1:B:28:LEU:HA	10	0.33	0.17	0.29
(2,1022)	1:C:31:LEU:H	1:C:28:LEU:HA	10	0.32	0.16	0.3
(2,1436)	1:D:31:LEU:H	1:D:28:LEU:HA	10	0.31	0.16	0.28
(2,1078)	1:C:37:LEU:H	1:C:34:ASN:HA	10	0.21	0.08	0.2
(2,232)	1:A:35:PHE:H	1:A:33:ILE:HB	10	0.13	0.02	0.12
(2,1474)	1:D:35:PHE:H	1:D:33:ILE:HB	10	0.13	0.02	0.12
(2,1811)	1:E:27:ASN:H	1:E:24:ALA:HA	9	1.97	0.8	1.94
(2,1397)	1:D:27:ASN:H	1:D:24:ALA:HA	9	1.97	0.8	1.92
(2,569)	1:B:27:ASN:H	1:B:24:ALA:HA	9	1.96	0.8	1.92
(2,155)	1:A:27:ASN:H	1:A:24:ALA:HA	9	1.9	0.75	1.93
(2,983)	1:C:27:ASN:H	1:C:24:ALA:HA	9	1.88	0.75	1.93
(2,1098)	1:C:39:LEU:H	1:C:36:CYS:HA	9	0.26	0.08	0.26
(2,1926)	1:E:39:LEU:H	1:E:36:CYS:HA	9	0.22	0.07	0.24
(2,1906)	1:E:37:LEU:H	1:E:34:ASN:HA	9	0.22	0.07	0.22
(2,1492)	1:D:37:LEU:H	1:D:34:ASN:HA	9	0.21	0.06	0.2
(2,1980)	1:E:44:LEU:H	1:E:41:CYS:HB2	9	0.15	0.05	0.13
(2,1980)	1:E:44:LEU:H	1:E:41:CYS:HB3	9	0.15	0.05	0.13
(2,1290)	1:D:9:ARG:H	1:D:7:LEU:HD11	9	0.13	0.01	0.13
(2,1290)	1:D:9:ARG:H	1:D:7:LEU:HD12	9	0.13	0.01	0.13
(2,1290)	1:D:9:ARG:H	1:D:7:LEU:HD13	9	0.13	0.01	0.13
(2,462)	1:B:9:ARG:H	1:B:7:LEU:HD11	9	0.13	0.01	0.13

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,462)	1:B:9:ARG:H	1:B:7:LEU:HD12	9	0.13	0.01	0.13
(2,462)	1:B:9:ARG:H	1:B:7:LEU:HD13	9	0.13	0.01	0.13
(2,1704)	1:E:9:ARG:H	1:E:7:LEU:HD11	9	0.13	0.01	0.13
(2,1704)	1:E:9:ARG:H	1:E:7:LEU:HD12	9	0.13	0.01	0.13
(2,1704)	1:E:9:ARG:H	1:E:7:LEU:HD13	9	0.13	0.01	0.13
(2,876)	1:C:9:ARG:H	1:C:7:LEU:HD11	9	0.12	0.01	0.12
(2,876)	1:C:9:ARG:H	1:C:7:LEU:HD12	9	0.12	0.01	0.12
(2,876)	1:C:9:ARG:H	1:C:7:LEU:HD13	9	0.12	0.01	0.12
(2,48)	1:A:9:ARG:H	1:A:7:LEU:HD11	9	0.12	0.01	0.12
(2,48)	1:A:9:ARG:H	1:A:7:LEU:HD12	9	0.12	0.01	0.12
(2,48)	1:A:9:ARG:H	1:A:7:LEU:HD13	9	0.12	0.01	0.12
(2,1986)	1:E:44:LEU:H	1:E:44:LEU:HG	8	0.43	0.16	0.4
(2,173)	1:A:29:GLN:H	1:A:28:LEU:HG	8	0.37	0.09	0.36
(2,587)	1:B:29:GLN:H	1:B:28:LEU:HG	8	0.37	0.09	0.36
(2,1829)	1:E:29:GLN:H	1:E:28:LEU:HG	8	0.37	0.08	0.37
(2,1001)	1:C:29:GLN:H	1:C:28:LEU:HG	8	0.36	0.1	0.38
(2,1415)	1:D:29:GLN:H	1:D:28:LEU:HG	8	0.36	0.09	0.37
(2,2017)	1:E:47:ILE:H	1:E:47:ILE:HD11	8	0.17	0.03	0.16
(2,2017)	1:E:47:ILE:H	1:E:47:ILE:HD12	8	0.17	0.03	0.16
(2,2017)	1:E:47:ILE:H	1:E:47:ILE:HD13	8	0.17	0.03	0.16
(2,646)	1:B:35:PHE:H	1:B:33:ILE:HB	8	0.13	0.02	0.12
(2,113)	1:A:18:ILE:H	1:A:17:THR:H	7	0.8	0.25	0.9
(2,941)	1:C:18:ILE:H	1:C:17:THR:H	7	0.8	0.28	0.9
(2,1769)	1:E:18:ILE:H	1:E:17:THR:H	7	0.8	0.28	0.9
(2,1355)	1:D:18:ILE:H	1:D:17:THR:H	7	0.79	0.28	0.9
(2,527)	1:B:18:ILE:H	1:B:17:THR:H	7	0.79	0.28	0.9
(2,1572)	1:D:44:LEU:H	1:D:44:LEU:HG	7	0.51	0.16	0.57
(2,330)	1:A:44:LEU:H	1:A:44:LEU:HG	7	0.5	0.22	0.54
(2,1060)	1:C:35:PHE:H	1:C:33:ILE:HB	7	0.13	0.02	0.13
(2,1888)	1:E:35:PHE:H	1:E:33:ILE:HB	7	0.13	0.02	0.12
(2,744)	1:B:44:LEU:H	1:B:44:LEU:HG	6	0.6	0.07	0.62
(2,1813)	1:E:27:ASN:H	1:E:25:ARG:H	6	0.54	0.38	0.4
(2,571)	1:B:27:ASN:H	1:B:25:ARG:H	6	0.52	0.38	0.4
(2,985)	1:C:27:ASN:H	1:C:25:ARG:H	6	0.47	0.37	0.41
(2,157)	1:A:27:ASN:H	1:A:25:ARG:H	6	0.44	0.31	0.4
(2,684)	1:B:39:LEU:H	1:B:36:CYS:HA	6	0.28	0.07	0.26
(2,664)	1:B:37:LEU:H	1:B:34:ASN:HA	6	0.19	0.04	0.18
(2,1603)	1:D:47:ILE:H	1:D:47:ILE:HD11	6	0.18	0.05	0.16
(2,1603)	1:D:47:ILE:H	1:D:47:ILE:HD12	6	0.18	0.05	0.16
(2,1603)	1:D:47:ILE:H	1:D:47:ILE:HD13	6	0.18	0.05	0.16
(2,250)	1:A:37:LEU:H	1:A:34:ASN:HA	6	0.17	0.07	0.15
(2,938)	1:C:17:THR:H	1:C:17:THR:HA	6	0.13	0.01	0.13

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,1352)	1:D:17:THR:H	1:D:17:THR:HA	6	0.13	0.01	0.13
(2,1766)	1:E:17:THR:H	1:E:17:THR:HA	6	0.13	0.01	0.14
(2,524)	1:B:17:THR:H	1:B:17:THR:HA	6	0.13	0.01	0.13
(2,1002)	1:C:30:ASN:HD21	1:C:30:ASN:HD22	6	0.11	0.0	0.11
(2,1416)	1:D:30:ASN:HD21	1:D:30:ASN:HD22	6	0.11	0.0	0.11
(2,1830)	1:E:30:ASN:HD21	1:E:30:ASN:HD22	6	0.11	0.0	0.11
(2,183)	1:A:30:ASN:H	1:A:26:GLN:HA	5	0.63	0.43	0.46
(2,1839)	1:E:30:ASN:H	1:E:26:GLN:HA	5	0.61	0.44	0.43
(2,1425)	1:D:30:ASN:H	1:D:26:GLN:HA	5	0.61	0.44	0.39
(2,1011)	1:C:30:ASN:H	1:C:26:GLN:HA	5	0.61	0.44	0.41
(2,1399)	1:D:27:ASN:H	1:D:25:ARG:H	5	0.61	0.36	0.43
(2,597)	1:B:30:ASN:H	1:B:26:GLN:HA	5	0.6	0.44	0.41
(2,1240)	1:C:52:LEU:H	1:C:52:LEU:HB2	5	0.54	0.07	0.53
(2,1240)	1:C:52:LEU:H	1:C:52:LEU:HB3	5	0.54	0.07	0.53
(2,1654)	1:D:52:LEU:H	1:D:52:LEU:HB2	5	0.54	0.08	0.53
(2,1654)	1:D:52:LEU:H	1:D:52:LEU:HB3	5	0.54	0.08	0.53
(2,826)	1:B:52:LEU:H	1:B:52:LEU:HB2	5	0.54	0.07	0.53
(2,826)	1:B:52:LEU:H	1:B:52:LEU:HB3	5	0.54	0.07	0.53
(2,412)	1:A:52:LEU:H	1:A:52:LEU:HB2	5	0.54	0.07	0.55
(2,412)	1:A:52:LEU:H	1:A:52:LEU:HB3	5	0.54	0.07	0.55
(2,2068)	1:E:52:LEU:H	1:E:52:LEU:HB2	5	0.53	0.06	0.53
(2,2068)	1:E:52:LEU:H	1:E:52:LEU:HB3	5	0.53	0.06	0.53
(2,1363)	1:D:19:GLU:H	1:D:18:ILE:HD11	5	0.25	0.08	0.23
(2,1363)	1:D:19:GLU:H	1:D:18:ILE:HD12	5	0.25	0.08	0.23
(2,1363)	1:D:19:GLU:H	1:D:18:ILE:HD13	5	0.25	0.08	0.23
(2,1777)	1:E:19:GLU:H	1:E:18:ILE:HD11	5	0.25	0.09	0.23
(2,1777)	1:E:19:GLU:H	1:E:18:ILE:HD12	5	0.25	0.09	0.23
(2,1777)	1:E:19:GLU:H	1:E:18:ILE:HD13	5	0.25	0.09	0.23
(2,949)	1:C:19:GLU:H	1:C:18:ILE:HD11	5	0.25	0.09	0.24
(2,949)	1:C:19:GLU:H	1:C:18:ILE:HD12	5	0.25	0.09	0.24
(2,949)	1:C:19:GLU:H	1:C:18:ILE:HD13	5	0.25	0.09	0.24
(2,121)	1:A:19:GLU:H	1:A:18:ILE:HD11	5	0.24	0.08	0.23
(2,121)	1:A:19:GLU:H	1:A:18:ILE:HD12	5	0.24	0.08	0.23
(2,121)	1:A:19:GLU:H	1:A:18:ILE:HD13	5	0.24	0.08	0.23
(2,535)	1:B:19:GLU:H	1:B:18:ILE:HD11	5	0.24	0.08	0.23
(2,535)	1:B:19:GLU:H	1:B:18:ILE:HD12	5	0.24	0.08	0.23
(2,535)	1:B:19:GLU:H	1:B:18:ILE:HD13	5	0.24	0.08	0.23
(2,1189)	1:C:47:ILE:H	1:C:47:ILE:HD11	5	0.22	0.11	0.15
(2,1189)	1:C:47:ILE:H	1:C:47:ILE:HD12	5	0.22	0.11	0.15
(2,1189)	1:C:47:ILE:H	1:C:47:ILE:HD13	5	0.22	0.11	0.15
(2,1566)	1:D:44:LEU:H	1:D:41:CYS:HB2	5	0.18	0.07	0.13
(2,1566)	1:D:44:LEU:H	1:D:41:CYS:HB3	5	0.18	0.07	0.13

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,110)	1:A:17:THR:H	1:A:17:THR:HA	5	0.14	0.01	0.14
(2,517)	1:B:16:SEP:H	1:B:15:ALA:HA	5	0.13	0.01	0.13
(2,1345)	1:D:16:SEP:H	1:D:15:ALA:HA	5	0.13	0.01	0.13
(2,931)	1:C:16:SEP:H	1:C:15:ALA:HA	5	0.13	0.01	0.13
(2,1759)	1:E:16:SEP:H	1:E:15:ALA:HA	5	0.13	0.01	0.13
(2,174)	1:A:30:ASN:HD21	1:A:30:ASN:HD22	5	0.11	0.0	0.11
(2,588)	1:B:30:ASN:HD21	1:B:30:ASN:HD22	5	0.11	0.0	0.11
(2,1055)	1:C:27:ASN:HD21	1:C:27:ASN:HD22	5	0.11	0.0	0.11
(2,1469)	1:D:27:ASN:HD21	1:D:27:ASN:HD22	5	0.11	0.0	0.11
(2,542)	1:B:20:MET:H	1:B:19:GLU:HA	4	0.37	0.22	0.32
(2,956)	1:C:20:MET:H	1:C:19:GLU:HA	4	0.34	0.24	0.26
(2,128)	1:A:20:MET:H	1:A:19:GLU:HA	4	0.33	0.24	0.24
(2,1370)	1:D:20:MET:H	1:D:19:GLU:HA	4	0.33	0.25	0.24
(2,361)	1:A:47:ILE:H	1:A:47:ILE:HD11	4	0.15	0.03	0.15
(2,361)	1:A:47:ILE:H	1:A:47:ILE:HD12	4	0.15	0.03	0.15
(2,361)	1:A:47:ILE:H	1:A:47:ILE:HD13	4	0.15	0.03	0.15
(2,1946)	1:E:41:CYS:H	1:E:38:ILE:HA	4	0.15	0.03	0.15
(2,1941)	1:E:40:ILE:H	1:E:37:LEU:HA	4	0.14	0.02	0.15
(2,1113)	1:C:40:ILE:H	1:C:37:LEU:HA	4	0.13	0.02	0.12
(2,227)	1:A:27:ASN:HD21	1:A:27:ASN:HD22	4	0.11	0.0	0.11
(2,641)	1:B:27:ASN:HD21	1:B:27:ASN:HD22	4	0.11	0.0	0.11
(2,1242)	1:C:52:LEU:H	1:C:52:LEU:HG	3	1.44	0.17	1.4
(2,2070)	1:E:52:LEU:H	1:E:52:LEU:HG	3	1.44	0.17	1.39
(2,414)	1:A:52:LEU:H	1:A:52:LEU:HG	3	1.43	0.17	1.39
(2,1656)	1:D:52:LEU:H	1:D:52:LEU:HG	3	1.43	0.17	1.39
(2,828)	1:B:52:LEU:H	1:B:52:LEU:HG	3	1.37	0.19	1.27
(2,989)	1:C:28:LEU:H	1:C:25:ARG:HA	3	1.32	0.45	1.51
(2,161)	1:A:28:LEU:H	1:A:25:ARG:HA	3	1.2	0.61	1.48
(2,1817)	1:E:28:LEU:H	1:E:25:ARG:HA	3	1.2	0.6	1.46
(2,575)	1:B:28:LEU:H	1:B:25:ARG:HA	3	1.17	0.62	1.44
(2,1403)	1:D:28:LEU:H	1:D:25:ARG:HA	3	1.17	0.6	1.43
(2,1529)	1:D:39:LEU:H	1:D:35:PHE:HD1	3	0.44	0.38	0.21
(2,1529)	1:D:39:LEU:H	1:D:35:PHE:HD2	3	0.44	0.38	0.21
(2,287)	1:A:39:LEU:H	1:A:35:PHE:HD1	3	0.41	0.4	0.14
(2,287)	1:A:39:LEU:H	1:A:35:PHE:HD2	3	0.41	0.4	0.14
(2,1115)	1:C:39:LEU:H	1:C:35:PHE:HD1	3	0.41	0.38	0.17
(2,1115)	1:C:39:LEU:H	1:C:35:PHE:HD2	3	0.41	0.38	0.17
(2,1784)	1:E:20:MET:H	1:E:19:GLU:HA	3	0.41	0.24	0.33
(2,1943)	1:E:39:LEU:H	1:E:35:PHE:HD1	3	0.4	0.37	0.17
(2,1943)	1:E:39:LEU:H	1:E:35:PHE:HD2	3	0.4	0.37	0.17
(2,775)	1:B:47:ILE:H	1:B:47:ILE:HD11	3	0.25	0.02	0.26
(2,775)	1:B:47:ILE:H	1:B:47:ILE:HD12	3	0.25	0.02	0.26

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,775)	1:B:47:ILE:H	1:B:47:ILE:HD13	3	0.25	0.02	0.26
(2,270)	1:A:39:LEU:H	1:A:36:CYS:HA	3	0.21	0.08	0.22
(2,738)	1:B:44:LEU:H	1:B:41:CYS:HB2	3	0.13	0.02	0.13
(2,738)	1:B:44:LEU:H	1:B:41:CYS:HB3	3	0.13	0.02	0.13
(2,103)	1:A:16:SEP:H	1:A:15:ALA:HA	3	0.13	0.01	0.13
(2,1883)	1:E:27:ASN:HD21	1:E:27:ASN:HD22	3	0.11	0.0	0.11
(2,1228)	1:C:51:LEU:H	1:C:51:LEU:HB3	2	0.76	0.0	0.76
(2,814)	1:B:51:LEU:H	1:B:51:LEU:HB3	2	0.76	0.01	0.76
(2,2056)	1:E:51:LEU:H	1:E:51:LEU:HB3	2	0.76	0.01	0.76
(2,400)	1:A:51:LEU:H	1:A:51:LEU:HB3	2	0.75	0.0	0.75
(2,1642)	1:D:51:LEU:H	1:D:51:LEU:HB3	2	0.74	0.01	0.74
(2,120)	1:A:19:GLU:H	1:A:18:ILE:HA	2	0.58	0.1	0.58
(2,948)	1:C:19:GLU:H	1:C:18:ILE:HA	2	0.58	0.1	0.58
(2,701)	1:B:39:LEU:H	1:B:35:PHE:HD1	2	0.58	0.42	0.58
(2,701)	1:B:39:LEU:H	1:B:35:PHE:HD2	2	0.58	0.42	0.58
(2,534)	1:B:19:GLU:H	1:B:18:ILE:HA	2	0.57	0.11	0.57
(2,1362)	1:D:19:GLU:H	1:D:18:ILE:HA	2	0.57	0.11	0.57
(2,1776)	1:E:19:GLU:H	1:E:18:ILE:HA	2	0.57	0.11	0.57
(2,1512)	1:D:39:LEU:H	1:D:36:CYS:HA	2	0.26	0.0	0.26
(2,1447)	1:D:32:PHE:H	1:D:29:GLN:HA	2	0.25	0.04	0.25
(2,1033)	1:C:32:PHE:H	1:C:29:GLN:HA	2	0.24	0.04	0.24
(2,619)	1:B:32:PHE:H	1:B:29:GLN:HA	2	0.24	0.03	0.24
(2,1861)	1:E:32:PHE:H	1:E:29:GLN:HA	2	0.24	0.03	0.24
(2,205)	1:A:32:PHE:H	1:A:29:GLN:HA	2	0.23	0.04	0.23
(2,225)	1:A:27:ASN:HD21	1:A:27:ASN:HB3	2	0.22	0.02	0.22
(2,1467)	1:D:27:ASN:HD21	1:D:27:ASN:HB3	2	0.22	0.02	0.22
(2,639)	1:B:27:ASN:HD21	1:B:27:ASN:HB3	2	0.22	0.01	0.22
(2,1881)	1:E:27:ASN:HD21	1:E:27:ASN:HB3	2	0.22	0.01	0.22
(2,1053)	1:C:27:ASN:HD21	1:C:27:ASN:HB3	2	0.22	0.02	0.22
(2,411)	1:A:52:LEU:H	1:A:52:LEU:HA	2	0.16	0.0	0.16
(2,699)	1:B:40:ILE:H	1:B:37:LEU:HA	2	0.16	0.03	0.16
(2,2067)	1:E:52:LEU:H	1:E:52:LEU:HA	2	0.16	0.0	0.16
(2,825)	1:B:52:LEU:H	1:B:52:LEU:HA	2	0.16	0.01	0.16
(2,1239)	1:C:52:LEU:H	1:C:52:LEU:HA	2	0.16	0.01	0.16
(2,1653)	1:D:52:LEU:H	1:D:52:LEU:HA	2	0.16	0.01	0.16
(2,324)	1:A:44:LEU:H	1:A:41:CYS:HB2	2	0.13	0.02	0.13
(2,324)	1:A:44:LEU:H	1:A:41:CYS:HB3	2	0.13	0.02	0.13
(2,1527)	1:D:40:ILE:H	1:D:37:LEU:HA	2	0.13	0.02	0.13
(2,111)	1:A:17:THR:H	1:A:17:THR:HG1	2	0.12	0.0	0.12
(2,111)	1:A:17:THR:H	1:A:17:THR:HG21	2	0.12	0.0	0.12
(2,111)	1:A:17:THR:H	1:A:17:THR:HG22	2	0.12	0.0	0.12
(2,111)	1:A:17:THR:H	1:A:17:THR:HG23	2	0.12	0.0	0.12

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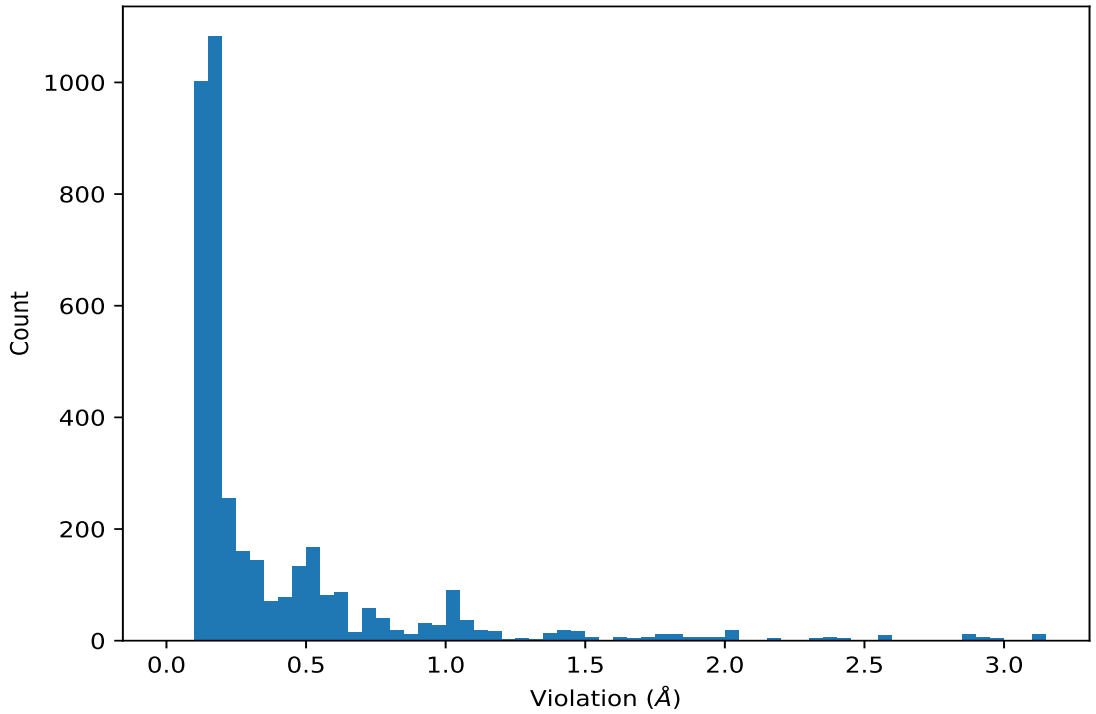
Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,297)	1:A:42:LEU:H	1:A:39:LEU:HB2	2	0.12	0.0	0.12
(2,297)	1:A:42:LEU:H	1:A:39:LEU:HB3	2	0.12	0.0	0.12
(2,525)	1:B:17:THR:H	1:B:17:THR:HG1	2	0.12	0.0	0.12
(2,525)	1:B:17:THR:H	1:B:17:THR:HG21	2	0.12	0.0	0.12
(2,525)	1:B:17:THR:H	1:B:17:THR:HG22	2	0.12	0.0	0.12
(2,525)	1:B:17:THR:H	1:B:17:THR:HG23	2	0.12	0.0	0.12
(2,939)	1:C:17:THR:H	1:C:17:THR:HG1	2	0.12	0.0	0.12
(2,939)	1:C:17:THR:H	1:C:17:THR:HG21	2	0.12	0.0	0.12
(2,939)	1:C:17:THR:H	1:C:17:THR:HG22	2	0.12	0.0	0.12
(2,939)	1:C:17:THR:H	1:C:17:THR:HG23	2	0.12	0.0	0.12
(2,1353)	1:D:17:THR:H	1:D:17:THR:HG1	2	0.12	0.0	0.12
(2,1353)	1:D:17:THR:H	1:D:17:THR:HG21	2	0.12	0.0	0.12
(2,1353)	1:D:17:THR:H	1:D:17:THR:HG22	2	0.12	0.0	0.12
(2,1353)	1:D:17:THR:H	1:D:17:THR:HG23	2	0.12	0.0	0.12
(2,1767)	1:E:17:THR:H	1:E:17:THR:HG1	2	0.11	0.0	0.11
(2,1767)	1:E:17:THR:H	1:E:17:THR:HG21	2	0.11	0.0	0.11
(2,1767)	1:E:17:THR:H	1:E:17:THR:HG22	2	0.11	0.0	0.11
(2,1767)	1:E:17:THR:H	1:E:17:THR:HG23	2	0.11	0.0	0.11

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

9.5 All violated distance restraints (i)

9.5.1 Histogram : Distribution of distance violations (i)

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



9.5.2 Table : All distance violations (i)

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

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,541)	1:B:20:MET:H	1:B:18:ILE:HG12	11	3.12
(2,541)	1:B:20:MET:H	1:B:18:ILE:HG13	11	3.12
(2,1369)	1:D:20:MET:H	1:D:18:ILE:HG12	11	3.12
(2,1369)	1:D:20:MET:H	1:D:18:ILE:HG13	11	3.12
(2,955)	1:C:20:MET:H	1:C:18:ILE:HG12	11	3.11
(2,955)	1:C:20:MET:H	1:C:18:ILE:HG13	11	3.11
(2,1783)	1:E:20:MET:H	1:E:18:ILE:HG12	11	3.11
(2,1783)	1:E:20:MET:H	1:E:18:ILE:HG13	11	3.11
(2,1818)	1:E:28:LEU:H	1:E:24:ALA:HA	14	3.1
(2,127)	1:A:20:MET:H	1:A:18:ILE:HG12	11	3.1
(2,127)	1:A:20:MET:H	1:A:18:ILE:HG13	11	3.1
(2,576)	1:B:28:LEU:H	1:B:24:ALA:HA	14	2.99
(2,1811)	1:E:27:ASN:H	1:E:24:ALA:HA	16	2.97
(2,569)	1:B:27:ASN:H	1:B:24:ALA:HA	16	2.95
(2,1397)	1:D:27:ASN:H	1:D:24:ALA:HA	16	2.95
(2,990)	1:C:28:LEU:H	1:C:24:ALA:HA	14	2.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,983)	1:C:27:ASN:H	1:C:24:ALA:HA	18	2.91
(2,1404)	1:D:28:LEU:H	1:D:24:ALA:HA	14	2.91
(2,569)	1:B:27:ASN:H	1:B:24:ALA:HA	18	2.9
(2,1811)	1:E:27:ASN:H	1:E:24:ALA:HA	18	2.9
(2,1397)	1:D:27:ASN:H	1:D:24:ALA:HA	18	2.9
(2,155)	1:A:27:ASN:H	1:A:24:ALA:HA	18	2.89
(2,162)	1:A:28:LEU:H	1:A:24:ALA:HA	14	2.88
(2,955)	1:C:20:MET:H	1:C:18:ILE:HG12	6	2.85
(2,955)	1:C:20:MET:H	1:C:18:ILE:HG13	6	2.85
(2,541)	1:B:20:MET:H	1:B:18:ILE:HG12	6	2.85
(2,541)	1:B:20:MET:H	1:B:18:ILE:HG13	6	2.85
(2,1783)	1:E:20:MET:H	1:E:18:ILE:HG12	6	2.85
(2,1783)	1:E:20:MET:H	1:E:18:ILE:HG13	6	2.85
(2,1369)	1:D:20:MET:H	1:D:18:ILE:HG12	6	2.85
(2,1369)	1:D:20:MET:H	1:D:18:ILE:HG13	6	2.85
(2,127)	1:A:20:MET:H	1:A:18:ILE:HG12	6	2.85
(2,127)	1:A:20:MET:H	1:A:18:ILE:HG13	6	2.85
(2,1811)	1:E:27:ASN:H	1:E:24:ALA:HA	3	2.6
(2,983)	1:C:27:ASN:H	1:C:24:ALA:HA	3	2.59
(2,1818)	1:E:28:LEU:H	1:E:24:ALA:HA	12	2.58
(2,155)	1:A:27:ASN:H	1:A:24:ALA:HA	3	2.57
(2,1397)	1:D:27:ASN:H	1:D:24:ALA:HA	3	2.57
(2,569)	1:B:27:ASN:H	1:B:24:ALA:HA	3	2.56
(2,162)	1:A:28:LEU:H	1:A:24:ALA:HA	12	2.56
(2,990)	1:C:28:LEU:H	1:C:24:ALA:HA	12	2.55
(2,576)	1:B:28:LEU:H	1:B:24:ALA:HA	12	2.55
(2,1404)	1:D:28:LEU:H	1:D:24:ALA:HA	12	2.55
(2,1394)	1:D:26:GLN:H	1:D:24:ALA:H	10	2.47
(2,566)	1:B:26:GLN:H	1:B:24:ALA:H	10	2.44
(2,1808)	1:E:26:GLN:H	1:E:24:ALA:H	10	2.44
(2,152)	1:A:26:GLN:H	1:A:24:ALA:H	10	2.43
(2,983)	1:C:27:ASN:H	1:C:24:ALA:HA	8	2.4
(2,155)	1:A:27:ASN:H	1:A:24:ALA:HA	8	2.4
(2,569)	1:B:27:ASN:H	1:B:24:ALA:HA	8	2.39
(2,1397)	1:D:27:ASN:H	1:D:24:ALA:HA	8	2.39
(2,1811)	1:E:27:ASN:H	1:E:24:ALA:HA	8	2.38
(2,983)	1:C:27:ASN:H	1:C:24:ALA:HA	16	2.37
(2,155)	1:A:27:ASN:H	1:A:24:ALA:HA	16	2.37
(2,162)	1:A:28:LEU:H	1:A:24:ALA:HA	9	2.35
(2,576)	1:B:28:LEU:H	1:B:24:ALA:HA	9	2.33
(2,1818)	1:E:28:LEU:H	1:E:24:ALA:HA	9	2.32
(2,1404)	1:D:28:LEU:H	1:D:24:ALA:HA	9	2.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,990)	1:C:28:LEU:H	1:C:24:ALA:HA	9	2.31
(2,566)	1:B:26:GLN:H	1:B:24:ALA:H	18	2.19
(2,1808)	1:E:26:GLN:H	1:E:24:ALA:H	18	2.18
(2,1394)	1:D:26:GLN:H	1:D:24:ALA:H	18	2.18
(2,980)	1:C:26:GLN:H	1:C:24:ALA:H	18	2.17
(2,152)	1:A:26:GLN:H	1:A:24:ALA:H	18	2.17
(2,980)	1:C:26:GLN:H	1:C:24:ALA:H	10	2.12
(2,195)	1:A:31:LEU:H	1:A:27:ASN:HA	3	2.07
(2,609)	1:B:31:LEU:H	1:B:27:ASN:HA	3	2.04
(2,566)	1:B:26:GLN:H	1:B:24:ALA:H	13	2.04
(2,1851)	1:E:31:LEU:H	1:E:27:ASN:HA	3	2.04
(2,152)	1:A:26:GLN:H	1:A:24:ALA:H	13	2.04
(2,1437)	1:D:31:LEU:H	1:D:27:ASN:HA	3	2.04
(2,1437)	1:D:31:LEU:H	1:D:27:ASN:HA	8	2.04
(2,1369)	1:D:20:MET:H	1:D:18:ILE:HG12	12	2.04
(2,1369)	1:D:20:MET:H	1:D:18:ILE:HG13	12	2.04
(2,1023)	1:C:31:LEU:H	1:C:27:ASN:HA	8	2.04
(2,195)	1:A:31:LEU:H	1:A:27:ASN:HA	8	2.03
(2,1023)	1:C:31:LEU:H	1:C:27:ASN:HA	3	2.03
(2,980)	1:C:26:GLN:H	1:C:24:ALA:H	13	2.02
(2,609)	1:B:31:LEU:H	1:B:27:ASN:HA	8	2.02
(2,1851)	1:E:31:LEU:H	1:E:27:ASN:HA	8	2.02
(2,1808)	1:E:26:GLN:H	1:E:24:ALA:H	13	2.01
(2,1783)	1:E:20:MET:H	1:E:18:ILE:HG12	12	2.01
(2,1783)	1:E:20:MET:H	1:E:18:ILE:HG13	12	2.01
(2,541)	1:B:20:MET:H	1:B:18:ILE:HG12	12	2.0
(2,541)	1:B:20:MET:H	1:B:18:ILE:HG13	12	2.0
(2,1394)	1:D:26:GLN:H	1:D:24:ALA:H	13	1.99
(2,127)	1:A:20:MET:H	1:A:18:ILE:HG12	12	1.99
(2,127)	1:A:20:MET:H	1:A:18:ILE:HG13	12	1.99
(2,955)	1:C:20:MET:H	1:C:18:ILE:HG12	12	1.98
(2,955)	1:C:20:MET:H	1:C:18:ILE:HG13	12	1.98
(2,152)	1:A:26:GLN:H	1:A:24:ALA:H	16	1.96
(2,1811)	1:E:27:ASN:H	1:E:24:ALA:HA	13	1.94
(2,983)	1:C:27:ASN:H	1:C:24:ALA:HA	13	1.93
(2,155)	1:A:27:ASN:H	1:A:24:ALA:HA	13	1.93
(2,980)	1:C:26:GLN:H	1:C:24:ALA:H	16	1.92
(2,569)	1:B:27:ASN:H	1:B:24:ALA:HA	13	1.92
(2,1397)	1:D:27:ASN:H	1:D:24:ALA:HA	13	1.92
(2,980)	1:C:26:GLN:H	1:C:24:ALA:H	3	1.88
(2,566)	1:B:26:GLN:H	1:B:24:ALA:H	3	1.87
(2,1808)	1:E:26:GLN:H	1:E:24:ALA:H	3	1.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1394)	1:D:26:GLN:H	1:D:24:ALA:H	3	1.87
(2,566)	1:B:26:GLN:H	1:B:24:ALA:H	16	1.86
(2,152)	1:A:26:GLN:H	1:A:24:ALA:H	3	1.86
(2,990)	1:C:28:LEU:H	1:C:24:ALA:HA	18	1.84
(2,1404)	1:D:28:LEU:H	1:D:24:ALA:HA	18	1.84
(2,576)	1:B:28:LEU:H	1:B:24:ALA:HA	18	1.83
(2,1818)	1:E:28:LEU:H	1:E:24:ALA:HA	18	1.83
(2,162)	1:A:28:LEU:H	1:A:24:ALA:HA	18	1.83
(2,1808)	1:E:26:GLN:H	1:E:24:ALA:H	16	1.82
(2,1394)	1:D:26:GLN:H	1:D:24:ALA:H	16	1.82
(2,1851)	1:E:31:LEU:H	1:E:27:ASN:HA	13	1.81
(2,609)	1:B:31:LEU:H	1:B:27:ASN:HA	13	1.8
(2,1437)	1:D:31:LEU:H	1:D:27:ASN:HA	2	1.8
(2,1437)	1:D:31:LEU:H	1:D:27:ASN:HA	13	1.8
(2,1023)	1:C:31:LEU:H	1:C:27:ASN:HA	13	1.8
(2,1851)	1:E:31:LEU:H	1:E:27:ASN:HA	2	1.79
(2,1023)	1:C:31:LEU:H	1:C:27:ASN:HA	2	1.79
(2,195)	1:A:31:LEU:H	1:A:27:ASN:HA	2	1.78
(2,195)	1:A:31:LEU:H	1:A:27:ASN:HA	13	1.78
(2,609)	1:B:31:LEU:H	1:B:27:ASN:HA	2	1.77
(2,161)	1:A:28:LEU:H	1:A:25:ARG:HA	9	1.77
(2,575)	1:B:28:LEU:H	1:B:25:ARG:HA	9	1.76
(2,1817)	1:E:28:LEU:H	1:E:25:ARG:HA	9	1.76
(2,989)	1:C:28:LEU:H	1:C:25:ARG:HA	9	1.75
(2,155)	1:A:27:ASN:H	1:A:24:ALA:HA	10	1.75
(2,1397)	1:D:27:ASN:H	1:D:24:ALA:HA	10	1.75
(2,566)	1:B:26:GLN:H	1:B:24:ALA:H	8	1.74
(2,1403)	1:D:28:LEU:H	1:D:25:ARG:HA	9	1.74
(2,1811)	1:E:27:ASN:H	1:E:24:ALA:HA	10	1.73
(2,152)	1:A:26:GLN:H	1:A:24:ALA:H	8	1.73
(2,980)	1:C:26:GLN:H	1:C:24:ALA:H	8	1.72
(2,569)	1:B:27:ASN:H	1:B:24:ALA:HA	10	1.72
(2,1394)	1:D:26:GLN:H	1:D:24:ALA:H	8	1.71
(2,1808)	1:E:26:GLN:H	1:E:24:ALA:H	8	1.69
(2,2070)	1:E:52:LEU:H	1:E:52:LEU:HG	17	1.67
(2,414)	1:A:52:LEU:H	1:A:52:LEU:HG	17	1.66
(2,1656)	1:D:52:LEU:H	1:D:52:LEU:HG	17	1.66
(2,1242)	1:C:52:LEU:H	1:C:52:LEU:HG	17	1.66
(2,828)	1:B:52:LEU:H	1:B:52:LEU:HG	17	1.64
(2,162)	1:A:28:LEU:H	1:A:24:ALA:HA	5	1.64
(2,990)	1:C:28:LEU:H	1:C:24:ALA:HA	5	1.63
(2,576)	1:B:28:LEU:H	1:B:24:ALA:HA	5	1.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1818)	1:E:28:LEU:H	1:E:24:ALA:HA	5	1.63
(2,1404)	1:D:28:LEU:H	1:D:24:ALA:HA	5	1.63
(2,983)	1:C:27:ASN:H	1:C:24:ALA:HA	10	1.57
(2,1397)	1:D:27:ASN:H	1:D:24:ALA:HA	20	1.53
(2,983)	1:C:27:ASN:H	1:C:24:ALA:HA	20	1.52
(2,155)	1:A:27:ASN:H	1:A:24:ALA:HA	20	1.52
(2,989)	1:C:28:LEU:H	1:C:25:ARG:HA	14	1.51
(2,1811)	1:E:27:ASN:H	1:E:24:ALA:HA	20	1.51
(2,569)	1:B:27:ASN:H	1:B:24:ALA:HA	20	1.5
(2,1851)	1:E:31:LEU:H	1:E:27:ASN:HA	18	1.49
(2,195)	1:A:31:LEU:H	1:A:27:ASN:HA	18	1.48
(2,1839)	1:E:30:ASN:H	1:E:26:GLN:HA	8	1.48
(2,1808)	1:E:26:GLN:H	1:E:24:ALA:H	19	1.48
(2,161)	1:A:28:LEU:H	1:A:25:ARG:HA	14	1.48
(2,1437)	1:D:31:LEU:H	1:D:27:ASN:HA	18	1.48
(2,1425)	1:D:30:ASN:H	1:D:26:GLN:HA	8	1.48
(2,1011)	1:C:30:ASN:H	1:C:26:GLN:HA	8	1.48
(2,597)	1:B:30:ASN:H	1:B:26:GLN:HA	8	1.47
(2,1874)	1:E:34:ASN:H	1:E:31:LEU:HA	1	1.47
(2,183)	1:A:30:ASN:H	1:A:26:GLN:HA	8	1.47
(2,152)	1:A:26:GLN:H	1:A:24:ALA:H	19	1.47
(2,1023)	1:C:31:LEU:H	1:C:27:ASN:HA	18	1.47
(2,609)	1:B:31:LEU:H	1:B:27:ASN:HA	18	1.46
(2,1817)	1:E:28:LEU:H	1:E:25:ARG:HA	14	1.46
(2,1460)	1:D:34:ASN:H	1:D:31:LEU:HA	20	1.45
(2,1394)	1:D:26:GLN:H	1:D:24:ALA:H	19	1.45
(2,575)	1:B:28:LEU:H	1:B:25:ARG:HA	14	1.44
(2,1046)	1:C:34:ASN:H	1:C:31:LEU:HA	1	1.44
(2,632)	1:B:34:ASN:H	1:B:31:LEU:HA	20	1.43
(2,1403)	1:D:28:LEU:H	1:D:25:ARG:HA	14	1.43
(2,566)	1:B:26:GLN:H	1:B:24:ALA:H	19	1.42
(2,1874)	1:E:34:ASN:H	1:E:31:LEU:HA	20	1.42
(2,1046)	1:C:34:ASN:H	1:C:31:LEU:HA	20	1.42
(2,632)	1:B:34:ASN:H	1:B:31:LEU:HA	1	1.41
(2,632)	1:B:34:ASN:H	1:B:31:LEU:HA	4	1.41
(2,218)	1:A:34:ASN:H	1:A:31:LEU:HA	1	1.41
(2,218)	1:A:34:ASN:H	1:A:31:LEU:HA	4	1.41
(2,218)	1:A:34:ASN:H	1:A:31:LEU:HA	20	1.41
(2,1397)	1:D:27:ASN:H	1:D:24:ALA:HA	12	1.41
(2,980)	1:C:26:GLN:H	1:C:24:ALA:H	19	1.4
(2,1874)	1:E:34:ASN:H	1:E:31:LEU:HA	4	1.4
(2,1811)	1:E:27:ASN:H	1:E:24:ALA:HA	12	1.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,155)	1:A:27:ASN:H	1:A:24:ALA:HA	12	1.4
(2,1460)	1:D:34:ASN:H	1:D:31:LEU:HA	1	1.4
(2,1242)	1:C:52:LEU:H	1:C:52:LEU:HG	8	1.4
(2,576)	1:B:28:LEU:H	1:B:24:ALA:HA	16	1.39
(2,414)	1:A:52:LEU:H	1:A:52:LEU:HG	8	1.39
(2,2070)	1:E:52:LEU:H	1:E:52:LEU:HG	8	1.39
(2,1656)	1:D:52:LEU:H	1:D:52:LEU:HG	8	1.39
(2,1460)	1:D:34:ASN:H	1:D:31:LEU:HA	4	1.39
(2,1404)	1:D:28:LEU:H	1:D:24:ALA:HA	16	1.39
(2,1046)	1:C:34:ASN:H	1:C:31:LEU:HA	4	1.39
(2,569)	1:B:27:ASN:H	1:B:24:ALA:HA	12	1.38
(2,1437)	1:D:31:LEU:H	1:D:27:ASN:HA	5	1.38
(2,983)	1:C:27:ASN:H	1:C:24:ALA:HA	12	1.37
(2,195)	1:A:31:LEU:H	1:A:27:ASN:HA	5	1.37
(2,1818)	1:E:28:LEU:H	1:E:24:ALA:HA	16	1.37
(2,1808)	1:E:26:GLN:H	1:E:24:ALA:H	14	1.36
(2,609)	1:B:31:LEU:H	1:B:27:ASN:HA	5	1.33
(2,1851)	1:E:31:LEU:H	1:E:27:ASN:HA	5	1.31
(2,1023)	1:C:31:LEU:H	1:C:27:ASN:HA	5	1.3
(2,828)	1:B:52:LEU:H	1:B:52:LEU:HG	8	1.27
(2,414)	1:A:52:LEU:H	1:A:52:LEU:HG	20	1.25
(2,2070)	1:E:52:LEU:H	1:E:52:LEU:HG	20	1.25
(2,1656)	1:D:52:LEU:H	1:D:52:LEU:HG	20	1.25
(2,1242)	1:C:52:LEU:H	1:C:52:LEU:HG	20	1.25
(2,985)	1:C:27:ASN:H	1:C:25:ARG:H	10	1.24
(2,828)	1:B:52:LEU:H	1:B:52:LEU:HG	20	1.2
(2,632)	1:B:34:ASN:H	1:B:31:LEU:HA	6	1.2
(2,566)	1:B:26:GLN:H	1:B:24:ALA:H	14	1.19
(2,218)	1:A:34:ASN:H	1:A:31:LEU:HA	11	1.18
(2,218)	1:A:34:ASN:H	1:A:31:LEU:HA	6	1.17
(2,1460)	1:D:34:ASN:H	1:D:31:LEU:HA	11	1.17
(2,1394)	1:D:26:GLN:H	1:D:24:ALA:H	14	1.17
(2,1874)	1:E:34:ASN:H	1:E:31:LEU:HA	6	1.16
(2,632)	1:B:34:ASN:H	1:B:31:LEU:HA	17	1.15
(2,541)	1:B:20:MET:H	1:B:18:ILE:HG12	4	1.15
(2,541)	1:B:20:MET:H	1:B:18:ILE:HG13	4	1.15
(2,1874)	1:E:34:ASN:H	1:E:31:LEU:HA	11	1.15
(2,1874)	1:E:34:ASN:H	1:E:31:LEU:HA	17	1.15
(2,1818)	1:E:28:LEU:H	1:E:24:ALA:HA	3	1.15
(2,1783)	1:E:20:MET:H	1:E:18:ILE:HG12	4	1.15
(2,1783)	1:E:20:MET:H	1:E:18:ILE:HG13	4	1.15
(2,1460)	1:D:34:ASN:H	1:D:31:LEU:HA	17	1.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1046)	1:C:34:ASN:H	1:C:31:LEU:HA	6	1.15
(2,1046)	1:C:34:ASN:H	1:C:31:LEU:HA	11	1.15
(2,990)	1:C:28:LEU:H	1:C:24:ALA:HA	3	1.14
(2,632)	1:B:34:ASN:H	1:B:31:LEU:HA	11	1.14
(2,1874)	1:E:34:ASN:H	1:E:31:LEU:HA	14	1.14
(2,1460)	1:D:34:ASN:H	1:D:31:LEU:HA	6	1.14
(2,127)	1:A:20:MET:H	1:A:18:ILE:HG12	4	1.14
(2,127)	1:A:20:MET:H	1:A:18:ILE:HG13	4	1.14
(2,1046)	1:C:34:ASN:H	1:C:31:LEU:HA	17	1.14
(2,576)	1:B:28:LEU:H	1:B:24:ALA:HA	3	1.13
(2,162)	1:A:28:LEU:H	1:A:24:ALA:HA	3	1.13
(2,152)	1:A:26:GLN:H	1:A:24:ALA:H	14	1.13
(2,1369)	1:D:20:MET:H	1:D:18:ILE:HG12	4	1.13
(2,1369)	1:D:20:MET:H	1:D:18:ILE:HG13	4	1.13
(2,1404)	1:D:28:LEU:H	1:D:24:ALA:HA	3	1.12
(2,218)	1:A:34:ASN:H	1:A:31:LEU:HA	17	1.11
(2,955)	1:C:20:MET:H	1:C:18:ILE:HG12	4	1.1
(2,955)	1:C:20:MET:H	1:C:18:ILE:HG13	4	1.1
(2,1858)	1:E:31:LEU:H	1:E:31:LEU:HG	6	1.1
(2,1444)	1:D:31:LEU:H	1:D:31:LEU:HG	6	1.1
(2,980)	1:C:26:GLN:H	1:C:24:ALA:H	14	1.09
(2,616)	1:B:31:LEU:H	1:B:31:LEU:HG	6	1.09
(2,202)	1:A:31:LEU:H	1:A:31:LEU:HG	6	1.09
(2,1460)	1:D:34:ASN:H	1:D:31:LEU:HA	14	1.09
(2,1030)	1:C:31:LEU:H	1:C:31:LEU:HG	6	1.09
(2,955)	1:C:20:MET:H	1:C:18:ILE:HG12	15	1.08
(2,955)	1:C:20:MET:H	1:C:18:ILE:HG13	15	1.08
(2,1813)	1:E:27:ASN:H	1:E:25:ARG:H	10	1.08
(2,157)	1:A:27:ASN:H	1:A:25:ARG:H	10	1.08
(2,632)	1:B:34:ASN:H	1:B:31:LEU:HA	14	1.07
(2,616)	1:B:31:LEU:H	1:B:31:LEU:HG	18	1.07
(2,202)	1:A:31:LEU:H	1:A:31:LEU:HG	18	1.07
(2,1858)	1:E:31:LEU:H	1:E:31:LEU:HG	18	1.07
(2,1783)	1:E:20:MET:H	1:E:18:ILE:HG12	15	1.07
(2,1783)	1:E:20:MET:H	1:E:18:ILE:HG13	15	1.07
(2,1444)	1:D:31:LEU:H	1:D:31:LEU:HG	10	1.07
(2,1444)	1:D:31:LEU:H	1:D:31:LEU:HG	18	1.07
(2,1399)	1:D:27:ASN:H	1:D:25:ARG:H	10	1.07
(2,127)	1:A:20:MET:H	1:A:18:ILE:HG12	15	1.07
(2,127)	1:A:20:MET:H	1:A:18:ILE:HG13	15	1.07
(2,616)	1:B:31:LEU:H	1:B:31:LEU:HG	10	1.06
(2,571)	1:B:27:ASN:H	1:B:25:ARG:H	10	1.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,202)	1:A:31:LEU:H	1:A:31:LEU:HG	8	1.06
(2,1030)	1:C:31:LEU:H	1:C:31:LEU:HG	10	1.06
(2,1030)	1:C:31:LEU:H	1:C:31:LEU:HG	18	1.06
(2,616)	1:B:31:LEU:H	1:B:31:LEU:HG	20	1.05
(2,541)	1:B:20:MET:H	1:B:18:ILE:HG12	15	1.05
(2,541)	1:B:20:MET:H	1:B:18:ILE:HG13	15	1.05
(2,202)	1:A:31:LEU:H	1:A:31:LEU:HG	1	1.05
(2,202)	1:A:31:LEU:H	1:A:31:LEU:HG	10	1.05
(2,1858)	1:E:31:LEU:H	1:E:31:LEU:HG	10	1.05
(2,1444)	1:D:31:LEU:H	1:D:31:LEU:HG	11	1.05
(2,1369)	1:D:20:MET:H	1:D:18:ILE:HG12	15	1.05
(2,1369)	1:D:20:MET:H	1:D:18:ILE:HG13	15	1.05
(2,1030)	1:C:31:LEU:H	1:C:31:LEU:HG	1	1.05
(2,1030)	1:C:31:LEU:H	1:C:31:LEU:HG	8	1.05
(2,941)	1:C:18:ILE:H	1:C:17:THR:H	19	1.04
(2,616)	1:B:31:LEU:H	1:B:31:LEU:HG	1	1.04
(2,616)	1:B:31:LEU:H	1:B:31:LEU:HG	3	1.04
(2,616)	1:B:31:LEU:H	1:B:31:LEU:HG	11	1.04
(2,616)	1:B:31:LEU:H	1:B:31:LEU:HG	17	1.04
(2,202)	1:A:31:LEU:H	1:A:31:LEU:HG	4	1.04
(2,202)	1:A:31:LEU:H	1:A:31:LEU:HG	11	1.04
(2,202)	1:A:31:LEU:H	1:A:31:LEU:HG	13	1.04
(2,1858)	1:E:31:LEU:H	1:E:31:LEU:HG	1	1.04
(2,1858)	1:E:31:LEU:H	1:E:31:LEU:HG	4	1.04
(2,1858)	1:E:31:LEU:H	1:E:31:LEU:HG	8	1.04
(2,1858)	1:E:31:LEU:H	1:E:31:LEU:HG	11	1.04
(2,1858)	1:E:31:LEU:H	1:E:31:LEU:HG	20	1.04
(2,1444)	1:D:31:LEU:H	1:D:31:LEU:HG	1	1.04
(2,1444)	1:D:31:LEU:H	1:D:31:LEU:HG	4	1.04
(2,1444)	1:D:31:LEU:H	1:D:31:LEU:HG	8	1.04
(2,1444)	1:D:31:LEU:H	1:D:31:LEU:HG	20	1.04
(2,1030)	1:C:31:LEU:H	1:C:31:LEU:HG	3	1.04
(2,1030)	1:C:31:LEU:H	1:C:31:LEU:HG	4	1.04
(2,1030)	1:C:31:LEU:H	1:C:31:LEU:HG	11	1.04
(2,1030)	1:C:31:LEU:H	1:C:31:LEU:HG	20	1.04
(2,616)	1:B:31:LEU:H	1:B:31:LEU:HG	4	1.03
(2,616)	1:B:31:LEU:H	1:B:31:LEU:HG	5	1.03
(2,616)	1:B:31:LEU:H	1:B:31:LEU:HG	8	1.03
(2,616)	1:B:31:LEU:H	1:B:31:LEU:HG	9	1.03
(2,616)	1:B:31:LEU:H	1:B:31:LEU:HG	13	1.03
(2,616)	1:B:31:LEU:H	1:B:31:LEU:HG	14	1.03
(2,571)	1:B:27:ASN:H	1:B:25:ARG:H	16	1.03

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,527)	1:B:18:ILE:H	1:B:17:THR:H	19	1.03
(2,218)	1:A:34:ASN:H	1:A:31:LEU:HA	14	1.03
(2,202)	1:A:31:LEU:H	1:A:31:LEU:HG	3	1.03
(2,202)	1:A:31:LEU:H	1:A:31:LEU:HG	5	1.03
(2,202)	1:A:31:LEU:H	1:A:31:LEU:HG	9	1.03
(2,202)	1:A:31:LEU:H	1:A:31:LEU:HG	12	1.03
(2,202)	1:A:31:LEU:H	1:A:31:LEU:HG	17	1.03
(2,202)	1:A:31:LEU:H	1:A:31:LEU:HG	20	1.03
(2,1858)	1:E:31:LEU:H	1:E:31:LEU:HG	5	1.03
(2,1858)	1:E:31:LEU:H	1:E:31:LEU:HG	9	1.03
(2,1858)	1:E:31:LEU:H	1:E:31:LEU:HG	13	1.03
(2,1858)	1:E:31:LEU:H	1:E:31:LEU:HG	17	1.03
(2,1444)	1:D:31:LEU:H	1:D:31:LEU:HG	5	1.03
(2,1444)	1:D:31:LEU:H	1:D:31:LEU:HG	9	1.03
(2,1444)	1:D:31:LEU:H	1:D:31:LEU:HG	13	1.03
(2,1444)	1:D:31:LEU:H	1:D:31:LEU:HG	17	1.03
(2,1030)	1:C:31:LEU:H	1:C:31:LEU:HG	5	1.03
(2,1030)	1:C:31:LEU:H	1:C:31:LEU:HG	9	1.03
(2,1030)	1:C:31:LEU:H	1:C:31:LEU:HG	13	1.03
(2,1030)	1:C:31:LEU:H	1:C:31:LEU:HG	17	1.03
(2,616)	1:B:31:LEU:H	1:B:31:LEU:HG	2	1.02
(2,202)	1:A:31:LEU:H	1:A:31:LEU:HG	2	1.02
(2,1858)	1:E:31:LEU:H	1:E:31:LEU:HG	2	1.02
(2,1769)	1:E:18:ILE:H	1:E:17:THR:H	19	1.02
(2,1444)	1:D:31:LEU:H	1:D:31:LEU:HG	2	1.02
(2,1369)	1:D:20:MET:H	1:D:18:ILE:HG12	5	1.02
(2,1369)	1:D:20:MET:H	1:D:18:ILE:HG13	5	1.02
(2,1355)	1:D:18:ILE:H	1:D:17:THR:H	19	1.02
(2,1030)	1:C:31:LEU:H	1:C:31:LEU:HG	2	1.02
(2,955)	1:C:20:MET:H	1:C:18:ILE:HG12	5	1.01
(2,955)	1:C:20:MET:H	1:C:18:ILE:HG13	5	1.01
(2,616)	1:B:31:LEU:H	1:B:31:LEU:HG	7	1.01
(2,541)	1:B:20:MET:H	1:B:18:ILE:HG12	5	1.01
(2,541)	1:B:20:MET:H	1:B:18:ILE:HG13	5	1.01
(2,202)	1:A:31:LEU:H	1:A:31:LEU:HG	7	1.01
(2,202)	1:A:31:LEU:H	1:A:31:LEU:HG	14	1.01
(2,1858)	1:E:31:LEU:H	1:E:31:LEU:HG	3	1.01
(2,1813)	1:E:27:ASN:H	1:E:25:ARG:H	16	1.01
(2,1783)	1:E:20:MET:H	1:E:18:ILE:HG12	5	1.01
(2,1783)	1:E:20:MET:H	1:E:18:ILE:HG13	5	1.01
(2,1444)	1:D:31:LEU:H	1:D:31:LEU:HG	3	1.01
(2,1444)	1:D:31:LEU:H	1:D:31:LEU:HG	14	1.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1444)	1:D:31:LEU:H	1:D:31:LEU:HG	15	1.01
(2,127)	1:A:20:MET:H	1:A:18:ILE:HG12	5	1.01
(2,127)	1:A:20:MET:H	1:A:18:ILE:HG13	5	1.01
(2,113)	1:A:18:ILE:H	1:A:17:THR:H	19	1.01
(2,1030)	1:C:31:LEU:H	1:C:31:LEU:HG	7	1.01
(2,1030)	1:C:31:LEU:H	1:C:31:LEU:HG	14	1.01
(2,701)	1:B:39:LEU:H	1:B:35:PHE:HD1	10	1.0
(2,701)	1:B:39:LEU:H	1:B:35:PHE:HD2	10	1.0
(2,616)	1:B:31:LEU:H	1:B:31:LEU:HG	12	1.0
(2,616)	1:B:31:LEU:H	1:B:31:LEU:HG	15	1.0
(2,616)	1:B:31:LEU:H	1:B:31:LEU:HG	19	1.0
(2,202)	1:A:31:LEU:H	1:A:31:LEU:HG	16	1.0
(2,202)	1:A:31:LEU:H	1:A:31:LEU:HG	19	1.0
(2,1858)	1:E:31:LEU:H	1:E:31:LEU:HG	7	1.0
(2,1858)	1:E:31:LEU:H	1:E:31:LEU:HG	12	1.0
(2,1858)	1:E:31:LEU:H	1:E:31:LEU:HG	14	1.0
(2,1858)	1:E:31:LEU:H	1:E:31:LEU:HG	15	1.0
(2,1444)	1:D:31:LEU:H	1:D:31:LEU:HG	7	1.0
(2,1444)	1:D:31:LEU:H	1:D:31:LEU:HG	12	1.0
(2,1444)	1:D:31:LEU:H	1:D:31:LEU:HG	19	1.0
(2,1030)	1:C:31:LEU:H	1:C:31:LEU:HG	16	1.0
(2,616)	1:B:31:LEU:H	1:B:31:LEU:HG	16	0.99
(2,202)	1:A:31:LEU:H	1:A:31:LEU:HG	15	0.99
(2,1858)	1:E:31:LEU:H	1:E:31:LEU:HG	16	0.99
(2,1858)	1:E:31:LEU:H	1:E:31:LEU:HG	19	0.99
(2,1444)	1:D:31:LEU:H	1:D:31:LEU:HG	16	0.99
(2,1399)	1:D:27:ASN:H	1:D:25:ARG:H	16	0.99
(2,1046)	1:C:34:ASN:H	1:C:31:LEU:HA	14	0.99
(2,1030)	1:C:31:LEU:H	1:C:31:LEU:HG	12	0.99
(2,1030)	1:C:31:LEU:H	1:C:31:LEU:HG	15	0.99
(2,1030)	1:C:31:LEU:H	1:C:31:LEU:HG	19	0.99
(2,287)	1:A:39:LEU:H	1:A:35:PHE:HD1	10	0.98
(2,287)	1:A:39:LEU:H	1:A:35:PHE:HD2	10	0.98
(2,1529)	1:D:39:LEU:H	1:D:35:PHE:HD1	10	0.98
(2,1529)	1:D:39:LEU:H	1:D:35:PHE:HD2	10	0.98
(2,1437)	1:D:31:LEU:H	1:D:27:ASN:HA	19	0.98
(2,127)	1:A:20:MET:H	1:A:18:ILE:HG12	8	0.98
(2,127)	1:A:20:MET:H	1:A:18:ILE:HG13	8	0.98
(2,955)	1:C:20:MET:H	1:C:18:ILE:HG12	8	0.97
(2,955)	1:C:20:MET:H	1:C:18:ILE:HG13	8	0.97
(2,541)	1:B:20:MET:H	1:B:18:ILE:HG12	8	0.97
(2,541)	1:B:20:MET:H	1:B:18:ILE:HG13	8	0.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1783)	1:E:20:MET:H	1:E:18:ILE:HG12	8	0.97
(2,1783)	1:E:20:MET:H	1:E:18:ILE:HG13	8	0.97
(2,1369)	1:D:20:MET:H	1:D:18:ILE:HG12	8	0.97
(2,1369)	1:D:20:MET:H	1:D:18:ILE:HG13	8	0.97
(2,1851)	1:E:31:LEU:H	1:E:27:ASN:HA	19	0.96
(2,195)	1:A:31:LEU:H	1:A:27:ASN:HA	19	0.95
(2,941)	1:C:18:ILE:H	1:C:17:THR:H	3	0.94
(2,1769)	1:E:18:ILE:H	1:E:17:THR:H	3	0.94
(2,1355)	1:D:18:ILE:H	1:D:17:THR:H	3	0.94
(2,113)	1:A:18:ILE:H	1:A:17:THR:H	3	0.94
(2,1115)	1:C:39:LEU:H	1:C:35:PHE:HD1	10	0.94
(2,1115)	1:C:39:LEU:H	1:C:35:PHE:HD2	10	0.94
(2,1023)	1:C:31:LEU:H	1:C:27:ASN:HA	19	0.94
(2,609)	1:B:31:LEU:H	1:B:27:ASN:HA	19	0.93
(2,218)	1:A:34:ASN:H	1:A:31:LEU:HA	9	0.93
(2,527)	1:B:18:ILE:H	1:B:17:THR:H	3	0.92
(2,1943)	1:E:39:LEU:H	1:E:35:PHE:HD1	10	0.92
(2,1943)	1:E:39:LEU:H	1:E:35:PHE:HD2	10	0.92
(2,1158)	1:C:44:LEU:H	1:C:44:LEU:HG	2	0.92
(2,1046)	1:C:34:ASN:H	1:C:31:LEU:HA	9	0.92
(2,632)	1:B:34:ASN:H	1:B:31:LEU:HA	9	0.91
(2,330)	1:A:44:LEU:H	1:A:44:LEU:HG	2	0.91
(2,1851)	1:E:31:LEU:H	1:E:27:ASN:HA	20	0.91
(2,1769)	1:E:18:ILE:H	1:E:17:THR:H	7	0.91
(2,1046)	1:C:34:ASN:H	1:C:31:LEU:HA	3	0.91
(2,1023)	1:C:31:LEU:H	1:C:27:ASN:HA	20	0.91
(2,941)	1:C:18:ILE:H	1:C:17:THR:H	7	0.9
(2,941)	1:C:18:ILE:H	1:C:17:THR:H	15	0.9
(2,632)	1:B:34:ASN:H	1:B:31:LEU:HA	3	0.9
(2,527)	1:B:18:ILE:H	1:B:17:THR:H	7	0.9
(2,527)	1:B:18:ILE:H	1:B:17:THR:H	15	0.9
(2,218)	1:A:34:ASN:H	1:A:31:LEU:HA	3	0.9
(2,1769)	1:E:18:ILE:H	1:E:17:THR:H	15	0.9
(2,1460)	1:D:34:ASN:H	1:D:31:LEU:HA	9	0.9
(2,1355)	1:D:18:ILE:H	1:D:17:THR:H	7	0.9
(2,1355)	1:D:18:ILE:H	1:D:17:THR:H	15	0.9
(2,113)	1:A:18:ILE:H	1:A:17:THR:H	7	0.9
(2,113)	1:A:18:ILE:H	1:A:17:THR:H	15	0.9
(2,609)	1:B:31:LEU:H	1:B:27:ASN:HA	20	0.89
(2,1874)	1:E:34:ASN:H	1:E:31:LEU:HA	9	0.89
(2,1460)	1:D:34:ASN:H	1:D:31:LEU:HA	3	0.88
(2,1874)	1:E:34:ASN:H	1:E:31:LEU:HA	3	0.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,990)	1:C:28:LEU:H	1:C:24:ALA:HA	8	0.85
(2,576)	1:B:28:LEU:H	1:B:24:ALA:HA	8	0.85
(2,1851)	1:E:31:LEU:H	1:E:27:ASN:HA	17	0.85
(2,1769)	1:E:18:ILE:H	1:E:17:THR:H	20	0.85
(2,162)	1:A:28:LEU:H	1:A:24:ALA:HA	8	0.85
(2,1437)	1:D:31:LEU:H	1:D:27:ASN:HA	20	0.85
(2,1355)	1:D:18:ILE:H	1:D:17:THR:H	20	0.85
(2,990)	1:C:28:LEU:H	1:C:24:ALA:HA	16	0.84
(2,941)	1:C:18:ILE:H	1:C:17:THR:H	20	0.84
(2,527)	1:B:18:ILE:H	1:B:17:THR:H	1	0.84
(2,195)	1:A:31:LEU:H	1:A:27:ASN:HA	20	0.84
(2,1818)	1:E:28:LEU:H	1:E:24:ALA:HA	8	0.84
(2,1394)	1:D:26:GLN:H	1:D:24:ALA:H	17	0.84
(2,113)	1:A:18:ILE:H	1:A:17:THR:H	20	0.84
(2,941)	1:C:18:ILE:H	1:C:17:THR:H	1	0.83
(2,527)	1:B:18:ILE:H	1:B:17:THR:H	20	0.83
(2,1808)	1:E:26:GLN:H	1:E:24:ALA:H	17	0.83
(2,1769)	1:E:18:ILE:H	1:E:17:THR:H	1	0.83
(2,1404)	1:D:28:LEU:H	1:D:24:ALA:HA	8	0.83
(2,1355)	1:D:18:ILE:H	1:D:17:THR:H	1	0.83
(2,113)	1:A:18:ILE:H	1:A:17:THR:H	1	0.83
(2,195)	1:A:31:LEU:H	1:A:27:ASN:HA	6	0.82
(2,162)	1:A:28:LEU:H	1:A:24:ALA:HA	16	0.82
(2,1437)	1:D:31:LEU:H	1:D:27:ASN:HA	16	0.82
(2,152)	1:A:26:GLN:H	1:A:24:ALA:H	17	0.8
(2,195)	1:A:31:LEU:H	1:A:27:ASN:HA	17	0.79
(2,1437)	1:D:31:LEU:H	1:D:27:ASN:HA	17	0.79
(2,632)	1:B:34:ASN:H	1:B:31:LEU:HA	8	0.78
(2,608)	1:B:31:LEU:H	1:B:28:LEU:HA	7	0.78
(2,1023)	1:C:31:LEU:H	1:C:27:ASN:HA	16	0.78
(2,940)	1:C:18:ILE:H	1:C:17:THR:HA	16	0.77
(2,526)	1:B:18:ILE:H	1:B:17:THR:HA	16	0.77
(2,195)	1:A:31:LEU:H	1:A:27:ASN:HA	16	0.77
(2,1851)	1:E:31:LEU:H	1:E:27:ASN:HA	6	0.77
(2,1851)	1:E:31:LEU:H	1:E:27:ASN:HA	16	0.77
(2,1768)	1:E:18:ILE:H	1:E:17:THR:HA	16	0.77
(2,1354)	1:D:18:ILE:H	1:D:17:THR:HA	16	0.77
(2,112)	1:A:18:ILE:H	1:A:17:THR:HA	16	0.77
(2,1023)	1:C:31:LEU:H	1:C:27:ASN:HA	6	0.77
(2,940)	1:C:18:ILE:H	1:C:17:THR:HA	9	0.76
(2,814)	1:B:51:LEU:H	1:B:51:LEU:HB3	19	0.76
(2,526)	1:B:18:ILE:H	1:B:17:THR:HA	9	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,218)	1:A:34:ASN:H	1:A:31:LEU:HA	18	0.76
(2,2056)	1:E:51:LEU:H	1:E:51:LEU:HB3	19	0.76
(2,1354)	1:D:18:ILE:H	1:D:17:THR:HA	9	0.76
(2,1228)	1:C:51:LEU:H	1:C:51:LEU:HB3	5	0.76
(2,1228)	1:C:51:LEU:H	1:C:51:LEU:HB3	19	0.76
(2,1022)	1:C:31:LEU:H	1:C:28:LEU:HA	7	0.76
(2,814)	1:B:51:LEU:H	1:B:51:LEU:HB3	5	0.75
(2,609)	1:B:31:LEU:H	1:B:27:ASN:HA	6	0.75
(2,609)	1:B:31:LEU:H	1:B:27:ASN:HA	16	0.75
(2,526)	1:B:18:ILE:H	1:B:17:THR:HA	4	0.75
(2,400)	1:A:51:LEU:H	1:A:51:LEU:HB3	5	0.75
(2,400)	1:A:51:LEU:H	1:A:51:LEU:HB3	19	0.75
(2,218)	1:A:34:ASN:H	1:A:31:LEU:HA	8	0.75
(2,2056)	1:E:51:LEU:H	1:E:51:LEU:HB3	5	0.75
(2,1874)	1:E:34:ASN:H	1:E:31:LEU:HA	8	0.75
(2,1874)	1:E:34:ASN:H	1:E:31:LEU:HA	18	0.75
(2,1768)	1:E:18:ILE:H	1:E:17:THR:HA	4	0.75
(2,1768)	1:E:18:ILE:H	1:E:17:THR:HA	9	0.75
(2,1642)	1:D:51:LEU:H	1:D:51:LEU:HB3	19	0.75
(2,1460)	1:D:34:ASN:H	1:D:31:LEU:HA	18	0.75
(2,1437)	1:D:31:LEU:H	1:D:27:ASN:HA	6	0.75
(2,112)	1:A:18:ILE:H	1:A:17:THR:HA	4	0.75
(2,112)	1:A:18:ILE:H	1:A:17:THR:HA	9	0.75
(2,1023)	1:C:31:LEU:H	1:C:27:ASN:HA	17	0.75
(2,940)	1:C:18:ILE:H	1:C:17:THR:HA	4	0.74
(2,632)	1:B:34:ASN:H	1:B:31:LEU:HA	18	0.74
(2,194)	1:A:31:LEU:H	1:A:28:LEU:HA	7	0.74
(2,1850)	1:E:31:LEU:H	1:E:28:LEU:HA	7	0.74
(2,1642)	1:D:51:LEU:H	1:D:51:LEU:HB3	5	0.74
(2,1460)	1:D:34:ASN:H	1:D:31:LEU:HA	5	0.74
(2,1436)	1:D:31:LEU:H	1:D:28:LEU:HA	7	0.74
(2,1354)	1:D:18:ILE:H	1:D:17:THR:HA	4	0.74
(2,1354)	1:D:18:ILE:H	1:D:17:THR:HA	13	0.74
(2,112)	1:A:18:ILE:H	1:A:17:THR:HA	13	0.74
(2,1046)	1:C:34:ASN:H	1:C:31:LEU:HA	5	0.74
(2,1046)	1:C:34:ASN:H	1:C:31:LEU:HA	8	0.74
(2,956)	1:C:20:MET:H	1:C:19:GLU:HA	18	0.73
(2,940)	1:C:18:ILE:H	1:C:17:THR:HA	13	0.73
(2,542)	1:B:20:MET:H	1:B:19:GLU:HA	18	0.73
(2,526)	1:B:18:ILE:H	1:B:17:THR:HA	13	0.73
(2,226)	1:A:27:ASN:HD22	1:A:27:ASN:HB3	19	0.73
(2,1882)	1:E:27:ASN:HD22	1:E:27:ASN:HB3	19	0.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1874)	1:E:34:ASN:H	1:E:31:LEU:HA	5	0.73
(2,1784)	1:E:20:MET:H	1:E:19:GLU:HA	18	0.73
(2,1768)	1:E:18:ILE:H	1:E:17:THR:HA	12	0.73
(2,1768)	1:E:18:ILE:H	1:E:17:THR:HA	13	0.73
(2,1468)	1:D:27:ASN:HD22	1:D:27:ASN:HB3	19	0.73
(2,1460)	1:D:34:ASN:H	1:D:31:LEU:HA	8	0.73
(2,1370)	1:D:20:MET:H	1:D:19:GLU:HA	18	0.73
(2,128)	1:A:20:MET:H	1:A:19:GLU:HA	18	0.73
(2,1054)	1:C:27:ASN:HD22	1:C:27:ASN:HB3	19	0.73
(2,940)	1:C:18:ILE:H	1:C:17:THR:HA	12	0.72
(2,940)	1:C:18:ILE:H	1:C:17:THR:HA	14	0.72
(2,640)	1:B:27:ASN:HD22	1:B:27:ASN:HB3	14	0.72
(2,640)	1:B:27:ASN:HD22	1:B:27:ASN:HB3	19	0.72
(2,632)	1:B:34:ASN:H	1:B:31:LEU:HA	5	0.72
(2,526)	1:B:18:ILE:H	1:B:17:THR:HA	12	0.72
(2,218)	1:A:34:ASN:H	1:A:31:LEU:HA	5	0.72
(2,1882)	1:E:27:ASN:HD22	1:E:27:ASN:HB3	14	0.72
(2,1768)	1:E:18:ILE:H	1:E:17:THR:HA	14	0.72
(2,1354)	1:D:18:ILE:H	1:D:17:THR:HA	12	0.72
(2,1354)	1:D:18:ILE:H	1:D:17:THR:HA	14	0.72
(2,112)	1:A:18:ILE:H	1:A:17:THR:HA	6	0.72
(2,112)	1:A:18:ILE:H	1:A:17:THR:HA	12	0.72
(2,112)	1:A:18:ILE:H	1:A:17:THR:HA	14	0.72
(2,1046)	1:C:34:ASN:H	1:C:31:LEU:HA	18	0.72
(2,940)	1:C:18:ILE:H	1:C:17:THR:HA	6	0.71
(2,526)	1:B:18:ILE:H	1:B:17:THR:HA	2	0.71
(2,526)	1:B:18:ILE:H	1:B:17:THR:HA	6	0.71
(2,526)	1:B:18:ILE:H	1:B:17:THR:HA	14	0.71
(2,226)	1:A:27:ASN:HD22	1:A:27:ASN:HB3	14	0.71
(2,1768)	1:E:18:ILE:H	1:E:17:THR:HA	6	0.71
(2,1468)	1:D:27:ASN:HD22	1:D:27:ASN:HB3	14	0.71
(2,1354)	1:D:18:ILE:H	1:D:17:THR:HA	6	0.71
(2,1054)	1:C:27:ASN:HD22	1:C:27:ASN:HB3	14	0.71
(2,940)	1:C:18:ILE:H	1:C:17:THR:HA	2	0.7
(2,744)	1:B:44:LEU:H	1:B:44:LEU:HG	2	0.7
(2,1986)	1:E:44:LEU:H	1:E:44:LEU:HG	2	0.7
(2,1768)	1:E:18:ILE:H	1:E:17:THR:HA	2	0.7
(2,1572)	1:D:44:LEU:H	1:D:44:LEU:HG	2	0.7
(2,1354)	1:D:18:ILE:H	1:D:17:THR:HA	2	0.7
(2,112)	1:A:18:ILE:H	1:A:17:THR:HA	2	0.7
(2,989)	1:C:28:LEU:H	1:C:25:ARG:HA	10	0.69
(2,948)	1:C:19:GLU:H	1:C:18:ILE:HA	13	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,534)	1:B:19:GLU:H	1:B:18:ILE:HA	13	0.68
(2,1776)	1:E:19:GLU:H	1:E:18:ILE:HA	13	0.68
(2,1362)	1:D:19:GLU:H	1:D:18:ILE:HA	13	0.68
(2,120)	1:A:19:GLU:H	1:A:18:ILE:HA	13	0.68
(2,990)	1:C:28:LEU:H	1:C:24:ALA:HA	4	0.67
(2,940)	1:C:18:ILE:H	1:C:17:THR:HA	10	0.67
(2,526)	1:B:18:ILE:H	1:B:17:THR:HA	10	0.67
(2,1768)	1:E:18:ILE:H	1:E:17:THR:HA	10	0.67
(2,1354)	1:D:18:ILE:H	1:D:17:THR:HA	10	0.67
(2,112)	1:A:18:ILE:H	1:A:17:THR:HA	10	0.67
(2,609)	1:B:31:LEU:H	1:B:27:ASN:HA	17	0.65
(2,1851)	1:E:31:LEU:H	1:E:27:ASN:HA	15	0.65
(2,1654)	1:D:52:LEU:H	1:D:52:LEU:HB2	3	0.65
(2,1654)	1:D:52:LEU:H	1:D:52:LEU:HB3	3	0.65
(2,609)	1:B:31:LEU:H	1:B:27:ASN:HA	11	0.64
(2,594)	1:B:29:GLN:H	1:B:29:GLN:HG2	16	0.64
(2,594)	1:B:29:GLN:H	1:B:29:GLN:HG3	16	0.64
(2,576)	1:B:28:LEU:H	1:B:24:ALA:HA	4	0.64
(2,195)	1:A:31:LEU:H	1:A:27:ASN:HA	11	0.64
(2,1851)	1:E:31:LEU:H	1:E:27:ASN:HA	11	0.64
(2,1437)	1:D:31:LEU:H	1:D:27:ASN:HA	15	0.64
(2,1240)	1:C:52:LEU:H	1:C:52:LEU:HB2	3	0.64
(2,1240)	1:C:52:LEU:H	1:C:52:LEU:HB3	3	0.64
(2,1008)	1:C:29:GLN:H	1:C:29:GLN:HG2	16	0.64
(2,1008)	1:C:29:GLN:H	1:C:29:GLN:HG3	16	0.64
(2,940)	1:C:18:ILE:H	1:C:17:THR:HA	17	0.63
(2,826)	1:B:52:LEU:H	1:B:52:LEU:HB2	3	0.63
(2,826)	1:B:52:LEU:H	1:B:52:LEU:HB3	3	0.63
(2,744)	1:B:44:LEU:H	1:B:44:LEU:HG	13	0.63
(2,526)	1:B:18:ILE:H	1:B:17:THR:HA	17	0.63
(2,195)	1:A:31:LEU:H	1:A:27:ASN:HA	15	0.63
(2,1818)	1:E:28:LEU:H	1:E:24:ALA:HA	4	0.63
(2,1768)	1:E:18:ILE:H	1:E:17:THR:HA	17	0.63
(2,162)	1:A:28:LEU:H	1:A:24:ALA:HA	4	0.63
(2,1422)	1:D:29:GLN:H	1:D:29:GLN:HG2	16	0.63
(2,1422)	1:D:29:GLN:H	1:D:29:GLN:HG3	16	0.63
(2,1158)	1:C:44:LEU:H	1:C:44:LEU:HG	7	0.63
(2,112)	1:A:18:ILE:H	1:A:17:THR:HA	17	0.63
(2,1023)	1:C:31:LEU:H	1:C:27:ASN:HA	11	0.63
(2,1023)	1:C:31:LEU:H	1:C:27:ASN:HA	15	0.63
(2,744)	1:B:44:LEU:H	1:B:44:LEU:HG	9	0.62
(2,744)	1:B:44:LEU:H	1:B:44:LEU:HG	18	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,632)	1:B:34:ASN:H	1:B:31:LEU:HA	7	0.62
(2,609)	1:B:31:LEU:H	1:B:27:ASN:HA	4	0.62
(2,594)	1:B:29:GLN:H	1:B:29:GLN:HG2	12	0.62
(2,594)	1:B:29:GLN:H	1:B:29:GLN:HG3	12	0.62
(2,1836)	1:E:29:GLN:H	1:E:29:GLN:HG2	16	0.62
(2,1836)	1:E:29:GLN:H	1:E:29:GLN:HG3	16	0.62
(2,180)	1:A:29:GLN:H	1:A:29:GLN:HG2	12	0.62
(2,180)	1:A:29:GLN:H	1:A:29:GLN:HG3	12	0.62
(2,180)	1:A:29:GLN:H	1:A:29:GLN:HG2	16	0.62
(2,180)	1:A:29:GLN:H	1:A:29:GLN:HG3	16	0.62
(2,1572)	1:D:44:LEU:H	1:D:44:LEU:HG	13	0.62
(2,1460)	1:D:34:ASN:H	1:D:31:LEU:HA	15	0.62
(2,1422)	1:D:29:GLN:H	1:D:29:GLN:HG2	12	0.62
(2,1422)	1:D:29:GLN:H	1:D:29:GLN:HG3	12	0.62
(2,1404)	1:D:28:LEU:H	1:D:24:ALA:HA	4	0.62
(2,1354)	1:D:18:ILE:H	1:D:17:THR:HA	17	0.62
(2,1008)	1:C:29:GLN:H	1:C:29:GLN:HG2	12	0.62
(2,1008)	1:C:29:GLN:H	1:C:29:GLN:HG3	12	0.62
(2,990)	1:C:28:LEU:H	1:C:24:ALA:HA	13	0.61
(2,609)	1:B:31:LEU:H	1:B:27:ASN:HA	15	0.61
(2,594)	1:B:29:GLN:H	1:B:29:GLN:HG2	13	0.61
(2,594)	1:B:29:GLN:H	1:B:29:GLN:HG3	13	0.61
(2,576)	1:B:28:LEU:H	1:B:24:ALA:HA	13	0.61
(2,412)	1:A:52:LEU:H	1:A:52:LEU:HB2	3	0.61
(2,412)	1:A:52:LEU:H	1:A:52:LEU:HB3	3	0.61
(2,330)	1:A:44:LEU:H	1:A:44:LEU:HG	9	0.61
(2,2068)	1:E:52:LEU:H	1:E:52:LEU:HB2	3	0.61
(2,2068)	1:E:52:LEU:H	1:E:52:LEU:HB3	3	0.61
(2,195)	1:A:31:LEU:H	1:A:27:ASN:HA	4	0.61
(2,1851)	1:E:31:LEU:H	1:E:27:ASN:HA	4	0.61
(2,1836)	1:E:29:GLN:H	1:E:29:GLN:HG2	12	0.61
(2,1836)	1:E:29:GLN:H	1:E:29:GLN:HG3	12	0.61
(2,1808)	1:E:26:GLN:H	1:E:24:ALA:H	20	0.61
(2,162)	1:A:28:LEU:H	1:A:24:ALA:HA	13	0.61
(2,1437)	1:D:31:LEU:H	1:D:27:ASN:HA	11	0.61
(2,1158)	1:C:44:LEU:H	1:C:44:LEU:HG	13	0.61
(2,1008)	1:C:29:GLN:H	1:C:29:GLN:HG2	13	0.61
(2,1008)	1:C:29:GLN:H	1:C:29:GLN:HG3	13	0.61
(2,632)	1:B:34:ASN:H	1:B:31:LEU:HA	15	0.6
(2,594)	1:B:29:GLN:H	1:B:29:GLN:HG2	15	0.6
(2,594)	1:B:29:GLN:H	1:B:29:GLN:HG3	15	0.6
(2,330)	1:A:44:LEU:H	1:A:44:LEU:HG	4	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,218)	1:A:34:ASN:H	1:A:31:LEU:HA	15	0.6
(2,203)	1:A:32:PHE:H	1:A:31:LEU:HB2	10	0.6
(2,1986)	1:E:44:LEU:H	1:E:44:LEU:HG	13	0.6
(2,1874)	1:E:34:ASN:H	1:E:31:LEU:HA	7	0.6
(2,1874)	1:E:34:ASN:H	1:E:31:LEU:HA	15	0.6
(2,1836)	1:E:29:GLN:H	1:E:29:GLN:HG2	13	0.6
(2,1836)	1:E:29:GLN:H	1:E:29:GLN:HG3	13	0.6
(2,180)	1:A:29:GLN:H	1:A:29:GLN:HG2	13	0.6
(2,180)	1:A:29:GLN:H	1:A:29:GLN:HG3	13	0.6
(2,1572)	1:D:44:LEU:H	1:D:44:LEU:HG	9	0.6
(2,1460)	1:D:34:ASN:H	1:D:31:LEU:HA	7	0.6
(2,1422)	1:D:29:GLN:H	1:D:29:GLN:HG2	13	0.6
(2,1422)	1:D:29:GLN:H	1:D:29:GLN:HG3	13	0.6
(2,1422)	1:D:29:GLN:H	1:D:29:GLN:HG2	15	0.6
(2,1422)	1:D:29:GLN:H	1:D:29:GLN:HG3	15	0.6
(2,1158)	1:C:44:LEU:H	1:C:44:LEU:HG	9	0.6
(2,1046)	1:C:34:ASN:H	1:C:31:LEU:HA	15	0.6
(2,980)	1:C:26:GLN:H	1:C:24:ALA:H	20	0.59
(2,617)	1:B:32:PHE:H	1:B:31:LEU:HB2	10	0.59
(2,218)	1:A:34:ASN:H	1:A:31:LEU:HA	7	0.59
(2,1859)	1:E:32:PHE:H	1:E:31:LEU:HB2	10	0.59
(2,1836)	1:E:29:GLN:H	1:E:29:GLN:HG2	3	0.59
(2,1836)	1:E:29:GLN:H	1:E:29:GLN:HG3	3	0.59
(2,1836)	1:E:29:GLN:H	1:E:29:GLN:HG2	15	0.59
(2,1836)	1:E:29:GLN:H	1:E:29:GLN:HG3	15	0.59
(2,180)	1:A:29:GLN:H	1:A:29:GLN:HG2	15	0.59
(2,180)	1:A:29:GLN:H	1:A:29:GLN:HG3	15	0.59
(2,1437)	1:D:31:LEU:H	1:D:27:ASN:HA	4	0.59
(2,1404)	1:D:28:LEU:H	1:D:24:ALA:HA	13	0.59
(2,1158)	1:C:44:LEU:H	1:C:44:LEU:HG	4	0.59
(2,1046)	1:C:34:ASN:H	1:C:31:LEU:HA	7	0.59
(2,1031)	1:C:32:PHE:H	1:C:31:LEU:HB2	10	0.59
(2,1008)	1:C:29:GLN:H	1:C:29:GLN:HG2	15	0.59
(2,1008)	1:C:29:GLN:H	1:C:29:GLN:HG3	15	0.59
(2,609)	1:B:31:LEU:H	1:B:27:ASN:HA	10	0.58
(2,594)	1:B:29:GLN:H	1:B:29:GLN:HG2	3	0.58
(2,594)	1:B:29:GLN:H	1:B:29:GLN:HG3	3	0.58
(2,594)	1:B:29:GLN:H	1:B:29:GLN:HG2	19	0.58
(2,594)	1:B:29:GLN:H	1:B:29:GLN:HG3	19	0.58
(2,566)	1:B:26:GLN:H	1:B:24:ALA:H	20	0.58
(2,412)	1:A:52:LEU:H	1:A:52:LEU:HB2	12	0.58
(2,412)	1:A:52:LEU:H	1:A:52:LEU:HB3	12	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2068)	1:E:52:LEU:H	1:E:52:LEU:HB2	12	0.58
(2,2068)	1:E:52:LEU:H	1:E:52:LEU:HB3	12	0.58
(2,1836)	1:E:29:GLN:H	1:E:29:GLN:HG2	10	0.58
(2,1836)	1:E:29:GLN:H	1:E:29:GLN:HG3	10	0.58
(2,1836)	1:E:29:GLN:H	1:E:29:GLN:HG2	19	0.58
(2,1836)	1:E:29:GLN:H	1:E:29:GLN:HG3	19	0.58
(2,1818)	1:E:28:LEU:H	1:E:24:ALA:HA	13	0.58
(2,180)	1:A:29:GLN:H	1:A:29:GLN:HG2	10	0.58
(2,180)	1:A:29:GLN:H	1:A:29:GLN:HG3	10	0.58
(2,1654)	1:D:52:LEU:H	1:D:52:LEU:HB2	12	0.58
(2,1654)	1:D:52:LEU:H	1:D:52:LEU:HB3	12	0.58
(2,152)	1:A:26:GLN:H	1:A:24:ALA:H	20	0.58
(2,1445)	1:D:32:PHE:H	1:D:31:LEU:HB2	10	0.58
(2,1422)	1:D:29:GLN:H	1:D:29:GLN:HG2	3	0.58
(2,1422)	1:D:29:GLN:H	1:D:29:GLN:HG3	3	0.58
(2,1394)	1:D:26:GLN:H	1:D:24:ALA:H	20	0.58
(2,1240)	1:C:52:LEU:H	1:C:52:LEU:HB2	12	0.58
(2,1240)	1:C:52:LEU:H	1:C:52:LEU:HB3	12	0.58
(2,1158)	1:C:44:LEU:H	1:C:44:LEU:HG	16	0.58
(2,1158)	1:C:44:LEU:H	1:C:44:LEU:HG	18	0.58
(2,1008)	1:C:29:GLN:H	1:C:29:GLN:HG2	3	0.58
(2,1008)	1:C:29:GLN:H	1:C:29:GLN:HG3	3	0.58
(2,1008)	1:C:29:GLN:H	1:C:29:GLN:HG2	19	0.58
(2,1008)	1:C:29:GLN:H	1:C:29:GLN:HG3	19	0.58
(2,826)	1:B:52:LEU:H	1:B:52:LEU:HB2	12	0.57
(2,826)	1:B:52:LEU:H	1:B:52:LEU:HB3	12	0.57
(2,744)	1:B:44:LEU:H	1:B:44:LEU:HG	4	0.57
(2,594)	1:B:29:GLN:H	1:B:29:GLN:HG2	10	0.57
(2,594)	1:B:29:GLN:H	1:B:29:GLN:HG3	10	0.57
(2,195)	1:A:31:LEU:H	1:A:27:ASN:HA	10	0.57
(2,180)	1:A:29:GLN:H	1:A:29:GLN:HG2	3	0.57
(2,180)	1:A:29:GLN:H	1:A:29:GLN:HG3	3	0.57
(2,180)	1:A:29:GLN:H	1:A:29:GLN:HG2	19	0.57
(2,180)	1:A:29:GLN:H	1:A:29:GLN:HG3	19	0.57
(2,1572)	1:D:44:LEU:H	1:D:44:LEU:HG	16	0.57
(2,1437)	1:D:31:LEU:H	1:D:27:ASN:HA	10	0.57
(2,1422)	1:D:29:GLN:H	1:D:29:GLN:HG2	10	0.57
(2,1422)	1:D:29:GLN:H	1:D:29:GLN:HG3	10	0.57
(2,1023)	1:C:31:LEU:H	1:C:27:ASN:HA	10	0.57
(2,594)	1:B:29:GLN:H	1:B:29:GLN:HG2	14	0.56
(2,594)	1:B:29:GLN:H	1:B:29:GLN:HG3	14	0.56
(2,203)	1:A:32:PHE:H	1:A:31:LEU:HB2	14	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1851)	1:E:31:LEU:H	1:E:27:ASN:HA	1	0.56
(2,1851)	1:E:31:LEU:H	1:E:27:ASN:HA	10	0.56
(2,1422)	1:D:29:GLN:H	1:D:29:GLN:HG2	19	0.56
(2,1422)	1:D:29:GLN:H	1:D:29:GLN:HG3	19	0.56
(2,1023)	1:C:31:LEU:H	1:C:27:ASN:HA	1	0.56
(2,1008)	1:C:29:GLN:H	1:C:29:GLN:HG2	10	0.56
(2,1008)	1:C:29:GLN:H	1:C:29:GLN:HG3	10	0.56
(2,412)	1:A:52:LEU:H	1:A:52:LEU:HB2	13	0.55
(2,412)	1:A:52:LEU:H	1:A:52:LEU:HB3	13	0.55
(2,203)	1:A:32:PHE:H	1:A:31:LEU:HB2	4	0.55
(2,1874)	1:E:34:ASN:H	1:E:31:LEU:HA	12	0.55
(2,1859)	1:E:32:PHE:H	1:E:31:LEU:HB2	1	0.55
(2,1859)	1:E:32:PHE:H	1:E:31:LEU:HB2	14	0.55
(2,180)	1:A:29:GLN:H	1:A:29:GLN:HG2	14	0.55
(2,180)	1:A:29:GLN:H	1:A:29:GLN:HG3	14	0.55
(2,617)	1:B:32:PHE:H	1:B:31:LEU:HB2	4	0.54
(2,617)	1:B:32:PHE:H	1:B:31:LEU:HB2	14	0.54
(2,330)	1:A:44:LEU:H	1:A:44:LEU:HG	8	0.54
(2,226)	1:A:27:ASN:HD22	1:A:27:ASN:HB3	4	0.54
(2,203)	1:A:32:PHE:H	1:A:31:LEU:HB2	1	0.54
(2,195)	1:A:31:LEU:H	1:A:27:ASN:HA	1	0.54
(2,1874)	1:E:34:ASN:H	1:E:31:LEU:HA	2	0.54
(2,1859)	1:E:32:PHE:H	1:E:31:LEU:HB2	4	0.54
(2,1836)	1:E:29:GLN:H	1:E:29:GLN:HG2	7	0.54
(2,1836)	1:E:29:GLN:H	1:E:29:GLN:HG3	7	0.54
(2,1836)	1:E:29:GLN:H	1:E:29:GLN:HG2	14	0.54
(2,1836)	1:E:29:GLN:H	1:E:29:GLN:HG3	14	0.54
(2,1445)	1:D:32:PHE:H	1:D:31:LEU:HB2	4	0.54
(2,1445)	1:D:32:PHE:H	1:D:31:LEU:HB2	14	0.54
(2,1437)	1:D:31:LEU:H	1:D:27:ASN:HA	12	0.54
(2,1031)	1:C:32:PHE:H	1:C:31:LEU:HB2	1	0.54
(2,1008)	1:C:29:GLN:H	1:C:29:GLN:HG2	2	0.54
(2,1008)	1:C:29:GLN:H	1:C:29:GLN:HG3	2	0.54
(2,1008)	1:C:29:GLN:H	1:C:29:GLN:HG2	14	0.54
(2,1008)	1:C:29:GLN:H	1:C:29:GLN:HG3	14	0.54
(2,826)	1:B:52:LEU:H	1:B:52:LEU:HB2	11	0.53
(2,826)	1:B:52:LEU:H	1:B:52:LEU:HB3	11	0.53
(2,826)	1:B:52:LEU:H	1:B:52:LEU:HB2	13	0.53
(2,826)	1:B:52:LEU:H	1:B:52:LEU:HB3	13	0.53
(2,640)	1:B:27:ASN:HD22	1:B:27:ASN:HB3	4	0.53
(2,632)	1:B:34:ASN:H	1:B:31:LEU:HA	12	0.53
(2,617)	1:B:32:PHE:H	1:B:31:LEU:HB2	1	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,218)	1:A:34:ASN:H	1:A:31:LEU:HA	2	0.53
(2,218)	1:A:34:ASN:H	1:A:31:LEU:HA	12	0.53
(2,2068)	1:E:52:LEU:H	1:E:52:LEU:HB2	11	0.53
(2,2068)	1:E:52:LEU:H	1:E:52:LEU:HB3	11	0.53
(2,2068)	1:E:52:LEU:H	1:E:52:LEU:HB2	13	0.53
(2,2068)	1:E:52:LEU:H	1:E:52:LEU:HB3	13	0.53
(2,1882)	1:E:27:ASN:HD22	1:E:27:ASN:HB3	4	0.53
(2,1839)	1:E:30:ASN:H	1:E:26:GLN:HA	2	0.53
(2,1654)	1:D:52:LEU:H	1:D:52:LEU:HB2	11	0.53
(2,1654)	1:D:52:LEU:H	1:D:52:LEU:HB3	11	0.53
(2,1654)	1:D:52:LEU:H	1:D:52:LEU:HB2	13	0.53
(2,1654)	1:D:52:LEU:H	1:D:52:LEU:HB3	13	0.53
(2,1445)	1:D:32:PHE:H	1:D:31:LEU:HB2	1	0.53
(2,1425)	1:D:30:ASN:H	1:D:26:GLN:HA	2	0.53
(2,1422)	1:D:29:GLN:H	1:D:29:GLN:HG2	7	0.53
(2,1422)	1:D:29:GLN:H	1:D:29:GLN:HG3	7	0.53
(2,1240)	1:C:52:LEU:H	1:C:52:LEU:HB2	11	0.53
(2,1240)	1:C:52:LEU:H	1:C:52:LEU:HB3	11	0.53
(2,1240)	1:C:52:LEU:H	1:C:52:LEU:HB2	13	0.53
(2,1240)	1:C:52:LEU:H	1:C:52:LEU:HB3	13	0.53
(2,1158)	1:C:44:LEU:H	1:C:44:LEU:HG	10	0.53
(2,1046)	1:C:34:ASN:H	1:C:31:LEU:HA	12	0.53
(2,1031)	1:C:32:PHE:H	1:C:31:LEU:HB2	4	0.53
(2,1031)	1:C:32:PHE:H	1:C:31:LEU:HB2	14	0.53
(2,1011)	1:C:30:ASN:H	1:C:26:GLN:HA	2	0.53
(2,1008)	1:C:29:GLN:H	1:C:29:GLN:HG2	7	0.53
(2,1008)	1:C:29:GLN:H	1:C:29:GLN:HG3	7	0.53
(2,1008)	1:C:29:GLN:H	1:C:29:GLN:HG2	11	0.53
(2,1008)	1:C:29:GLN:H	1:C:29:GLN:HG3	11	0.53
(2,632)	1:B:34:ASN:H	1:B:31:LEU:HA	2	0.52
(2,594)	1:B:29:GLN:H	1:B:29:GLN:HG2	2	0.52
(2,594)	1:B:29:GLN:H	1:B:29:GLN:HG3	2	0.52
(2,594)	1:B:29:GLN:H	1:B:29:GLN:HG2	11	0.52
(2,594)	1:B:29:GLN:H	1:B:29:GLN:HG3	11	0.52
(2,412)	1:A:52:LEU:H	1:A:52:LEU:HB2	11	0.52
(2,412)	1:A:52:LEU:H	1:A:52:LEU:HB3	11	0.52
(2,1986)	1:E:44:LEU:H	1:E:44:LEU:HG	8	0.52
(2,1859)	1:E:32:PHE:H	1:E:31:LEU:HB2	20	0.52
(2,1836)	1:E:29:GLN:H	1:E:29:GLN:HG2	2	0.52
(2,1836)	1:E:29:GLN:H	1:E:29:GLN:HG3	2	0.52
(2,1836)	1:E:29:GLN:H	1:E:29:GLN:HG2	11	0.52
(2,1836)	1:E:29:GLN:H	1:E:29:GLN:HG3	11	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,183)	1:A:30:ASN:H	1:A:26:GLN:HA	2	0.52
(2,180)	1:A:29:GLN:H	1:A:29:GLN:HG2	2	0.52
(2,180)	1:A:29:GLN:H	1:A:29:GLN:HG3	2	0.52
(2,180)	1:A:29:GLN:H	1:A:29:GLN:HG2	7	0.52
(2,180)	1:A:29:GLN:H	1:A:29:GLN:HG3	7	0.52
(2,1468)	1:D:27:ASN:HD22	1:D:27:ASN:HB3	4	0.52
(2,1460)	1:D:34:ASN:H	1:D:31:LEU:HA	2	0.52
(2,1445)	1:D:32:PHE:H	1:D:31:LEU:HB2	11	0.52
(2,1437)	1:D:31:LEU:H	1:D:27:ASN:HA	1	0.52
(2,1422)	1:D:29:GLN:H	1:D:29:GLN:HG2	2	0.52
(2,1422)	1:D:29:GLN:H	1:D:29:GLN:HG3	2	0.52
(2,1422)	1:D:29:GLN:H	1:D:29:GLN:HG2	11	0.52
(2,1422)	1:D:29:GLN:H	1:D:29:GLN:HG3	11	0.52
(2,115)	1:A:18:ILE:H	1:A:18:ILE:HB	8	0.52
(2,1046)	1:C:34:ASN:H	1:C:31:LEU:HA	2	0.52
(2,1031)	1:C:32:PHE:H	1:C:31:LEU:HB2	20	0.52
(2,943)	1:C:18:ILE:H	1:C:18:ILE:HB	8	0.51
(2,617)	1:B:32:PHE:H	1:B:31:LEU:HB2	11	0.51
(2,594)	1:B:29:GLN:H	1:B:29:GLN:HG2	7	0.51
(2,594)	1:B:29:GLN:H	1:B:29:GLN:HG3	7	0.51
(2,529)	1:B:18:ILE:H	1:B:18:ILE:HB	8	0.51
(2,203)	1:A:32:PHE:H	1:A:31:LEU:HB2	11	0.51
(2,203)	1:A:32:PHE:H	1:A:31:LEU:HB2	17	0.51
(2,203)	1:A:32:PHE:H	1:A:31:LEU:HB2	20	0.51
(2,1859)	1:E:32:PHE:H	1:E:31:LEU:HB2	7	0.51
(2,1859)	1:E:32:PHE:H	1:E:31:LEU:HB2	11	0.51
(2,1859)	1:E:32:PHE:H	1:E:31:LEU:HB2	17	0.51
(2,1836)	1:E:29:GLN:H	1:E:29:GLN:HG2	8	0.51
(2,1836)	1:E:29:GLN:H	1:E:29:GLN:HG3	8	0.51
(2,1836)	1:E:29:GLN:H	1:E:29:GLN:HG2	9	0.51
(2,1836)	1:E:29:GLN:H	1:E:29:GLN:HG3	9	0.51
(2,180)	1:A:29:GLN:H	1:A:29:GLN:HG2	9	0.51
(2,180)	1:A:29:GLN:H	1:A:29:GLN:HG3	9	0.51
(2,180)	1:A:29:GLN:H	1:A:29:GLN:HG2	11	0.51
(2,180)	1:A:29:GLN:H	1:A:29:GLN:HG3	11	0.51
(2,1783)	1:E:20:MET:H	1:E:18:ILE:HG12	18	0.51
(2,1783)	1:E:20:MET:H	1:E:18:ILE:HG13	18	0.51
(2,1771)	1:E:18:ILE:H	1:E:18:ILE:HB	8	0.51
(2,1460)	1:D:34:ASN:H	1:D:31:LEU:HA	12	0.51
(2,1445)	1:D:32:PHE:H	1:D:31:LEU:HB2	7	0.51
(2,1445)	1:D:32:PHE:H	1:D:31:LEU:HB2	17	0.51
(2,1445)	1:D:32:PHE:H	1:D:31:LEU:HB2	20	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1422)	1:D:29:GLN:H	1:D:29:GLN:HG2	8	0.51
(2,1422)	1:D:29:GLN:H	1:D:29:GLN:HG3	8	0.51
(2,1422)	1:D:29:GLN:H	1:D:29:GLN:HG2	14	0.51
(2,1422)	1:D:29:GLN:H	1:D:29:GLN:HG3	14	0.51
(2,1357)	1:D:18:ILE:H	1:D:18:ILE:HB	8	0.51
(2,1158)	1:C:44:LEU:H	1:C:44:LEU:HG	5	0.51
(2,1054)	1:C:27:ASN:HD22	1:C:27:ASN:HB3	1	0.51
(2,1031)	1:C:32:PHE:H	1:C:31:LEU:HB2	7	0.51
(2,1031)	1:C:32:PHE:H	1:C:31:LEU:HB2	11	0.51
(2,1023)	1:C:31:LEU:H	1:C:27:ASN:HA	12	0.51
(2,1008)	1:C:29:GLN:H	1:C:29:GLN:HG2	8	0.51
(2,1008)	1:C:29:GLN:H	1:C:29:GLN:HG3	8	0.51
(2,955)	1:C:20:MET:H	1:C:18:ILE:HG12	18	0.5
(2,955)	1:C:20:MET:H	1:C:18:ILE:HG13	18	0.5
(2,640)	1:B:27:ASN:HD22	1:B:27:ASN:HB3	1	0.5
(2,617)	1:B:32:PHE:H	1:B:31:LEU:HB2	17	0.5
(2,617)	1:B:32:PHE:H	1:B:31:LEU:HB2	20	0.5
(2,597)	1:B:30:ASN:H	1:B:26:GLN:HA	2	0.5
(2,594)	1:B:29:GLN:H	1:B:29:GLN:HG2	8	0.5
(2,594)	1:B:29:GLN:H	1:B:29:GLN:HG3	8	0.5
(2,594)	1:B:29:GLN:H	1:B:29:GLN:HG2	9	0.5
(2,594)	1:B:29:GLN:H	1:B:29:GLN:HG3	9	0.5
(2,541)	1:B:20:MET:H	1:B:18:ILE:HG12	18	0.5
(2,541)	1:B:20:MET:H	1:B:18:ILE:HG13	18	0.5
(2,226)	1:A:27:ASN:HD22	1:A:27:ASN:HB3	1	0.5
(2,203)	1:A:32:PHE:H	1:A:31:LEU:HB2	3	0.5
(2,203)	1:A:32:PHE:H	1:A:31:LEU:HB2	7	0.5
(2,203)	1:A:32:PHE:H	1:A:31:LEU:HB2	19	0.5
(2,1882)	1:E:27:ASN:HD22	1:E:27:ASN:HB3	1	0.5
(2,1859)	1:E:32:PHE:H	1:E:31:LEU:HB2	16	0.5
(2,1859)	1:E:32:PHE:H	1:E:31:LEU:HB2	19	0.5
(2,1851)	1:E:31:LEU:H	1:E:27:ASN:HA	12	0.5
(2,1836)	1:E:29:GLN:H	1:E:29:GLN:HG2	1	0.5
(2,1836)	1:E:29:GLN:H	1:E:29:GLN:HG3	1	0.5
(2,1836)	1:E:29:GLN:H	1:E:29:GLN:HG2	17	0.5
(2,1836)	1:E:29:GLN:H	1:E:29:GLN:HG3	17	0.5
(2,180)	1:A:29:GLN:H	1:A:29:GLN:HG2	8	0.5
(2,180)	1:A:29:GLN:H	1:A:29:GLN:HG3	8	0.5
(2,180)	1:A:29:GLN:H	1:A:29:GLN:HG2	17	0.5
(2,180)	1:A:29:GLN:H	1:A:29:GLN:HG3	17	0.5
(2,1572)	1:D:44:LEU:H	1:D:44:LEU:HG	8	0.5
(2,1468)	1:D:27:ASN:HD22	1:D:27:ASN:HB3	1	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1460)	1:D:34:ASN:H	1:D:31:LEU:HA	16	0.5
(2,1445)	1:D:32:PHE:H	1:D:31:LEU:HB2	3	0.5
(2,1445)	1:D:32:PHE:H	1:D:31:LEU:HB2	16	0.5
(2,1422)	1:D:29:GLN:H	1:D:29:GLN:HG2	9	0.5
(2,1422)	1:D:29:GLN:H	1:D:29:GLN:HG3	9	0.5
(2,1369)	1:D:20:MET:H	1:D:18:ILE:HG12	18	0.5
(2,1369)	1:D:20:MET:H	1:D:18:ILE:HG13	18	0.5
(2,127)	1:A:20:MET:H	1:A:18:ILE:HG12	18	0.5
(2,127)	1:A:20:MET:H	1:A:18:ILE:HG13	18	0.5
(2,1054)	1:C:27:ASN:HD22	1:C:27:ASN:HB3	4	0.5
(2,1031)	1:C:32:PHE:H	1:C:31:LEU:HB2	19	0.5
(2,1008)	1:C:29:GLN:H	1:C:29:GLN:HG2	1	0.5
(2,1008)	1:C:29:GLN:H	1:C:29:GLN:HG3	1	0.5
(2,1008)	1:C:29:GLN:H	1:C:29:GLN:HG2	9	0.5
(2,1008)	1:C:29:GLN:H	1:C:29:GLN:HG3	9	0.5
(2,617)	1:B:32:PHE:H	1:B:31:LEU:HB2	3	0.49
(2,617)	1:B:32:PHE:H	1:B:31:LEU:HB2	7	0.49
(2,617)	1:B:32:PHE:H	1:B:31:LEU:HB2	12	0.49
(2,617)	1:B:32:PHE:H	1:B:31:LEU:HB2	16	0.49
(2,617)	1:B:32:PHE:H	1:B:31:LEU:HB2	19	0.49
(2,609)	1:B:31:LEU:H	1:B:27:ASN:HA	12	0.49
(2,594)	1:B:29:GLN:H	1:B:29:GLN:HG2	1	0.49
(2,594)	1:B:29:GLN:H	1:B:29:GLN:HG3	1	0.49
(2,587)	1:B:29:GLN:H	1:B:28:LEU:HG	8	0.49
(2,218)	1:A:34:ASN:H	1:A:31:LEU:HA	16	0.49
(2,203)	1:A:32:PHE:H	1:A:31:LEU:HB2	16	0.49
(2,195)	1:A:31:LEU:H	1:A:27:ASN:HA	12	0.49
(2,1874)	1:E:34:ASN:H	1:E:31:LEU:HA	16	0.49
(2,1859)	1:E:32:PHE:H	1:E:31:LEU:HB2	3	0.49
(2,1836)	1:E:29:GLN:H	1:E:29:GLN:HG2	5	0.49
(2,1836)	1:E:29:GLN:H	1:E:29:GLN:HG3	5	0.49
(2,1829)	1:E:29:GLN:H	1:E:28:LEU:HG	8	0.49
(2,180)	1:A:29:GLN:H	1:A:29:GLN:HG2	1	0.49
(2,180)	1:A:29:GLN:H	1:A:29:GLN:HG3	1	0.49
(2,173)	1:A:29:GLN:H	1:A:28:LEU:HG	8	0.49
(2,1445)	1:D:32:PHE:H	1:D:31:LEU:HB2	12	0.49
(2,1422)	1:D:29:GLN:H	1:D:29:GLN:HG2	1	0.49
(2,1422)	1:D:29:GLN:H	1:D:29:GLN:HG3	1	0.49
(2,1422)	1:D:29:GLN:H	1:D:29:GLN:HG2	17	0.49
(2,1422)	1:D:29:GLN:H	1:D:29:GLN:HG3	17	0.49
(2,1415)	1:D:29:GLN:H	1:D:28:LEU:HG	8	0.49
(2,1158)	1:C:44:LEU:H	1:C:44:LEU:HG	8	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1031)	1:C:32:PHE:H	1:C:31:LEU:HB2	3	0.49
(2,1031)	1:C:32:PHE:H	1:C:31:LEU:HB2	12	0.49
(2,1031)	1:C:32:PHE:H	1:C:31:LEU:HB2	16	0.49
(2,1031)	1:C:32:PHE:H	1:C:31:LEU:HB2	17	0.49
(2,1023)	1:C:31:LEU:H	1:C:27:ASN:HA	4	0.49
(2,1008)	1:C:29:GLN:H	1:C:29:GLN:HG2	18	0.49
(2,1008)	1:C:29:GLN:H	1:C:29:GLN:HG3	18	0.49
(2,1001)	1:C:29:GLN:H	1:C:28:LEU:HG	8	0.49
(2,948)	1:C:19:GLU:H	1:C:18:ILE:HA	16	0.48
(2,744)	1:B:44:LEU:H	1:B:44:LEU:HG	8	0.48
(2,632)	1:B:34:ASN:H	1:B:31:LEU:HA	16	0.48
(2,617)	1:B:32:PHE:H	1:B:31:LEU:HB2	9	0.48
(2,609)	1:B:31:LEU:H	1:B:27:ASN:HA	1	0.48
(2,594)	1:B:29:GLN:H	1:B:29:GLN:HG2	5	0.48
(2,594)	1:B:29:GLN:H	1:B:29:GLN:HG3	5	0.48
(2,594)	1:B:29:GLN:H	1:B:29:GLN:HG2	17	0.48
(2,594)	1:B:29:GLN:H	1:B:29:GLN:HG3	17	0.48
(2,587)	1:B:29:GLN:H	1:B:28:LEU:HG	3	0.48
(2,1859)	1:E:32:PHE:H	1:E:31:LEU:HB2	6	0.48
(2,1859)	1:E:32:PHE:H	1:E:31:LEU:HB2	9	0.48
(2,1859)	1:E:32:PHE:H	1:E:31:LEU:HB2	12	0.48
(2,1852)	1:E:31:LEU:H	1:E:30:ASN:HD21	1	0.48
(2,1836)	1:E:29:GLN:H	1:E:29:GLN:HG2	6	0.48
(2,1836)	1:E:29:GLN:H	1:E:29:GLN:HG3	6	0.48
(2,180)	1:A:29:GLN:H	1:A:29:GLN:HG2	5	0.48
(2,180)	1:A:29:GLN:H	1:A:29:GLN:HG3	5	0.48
(2,1445)	1:D:32:PHE:H	1:D:31:LEU:HB2	6	0.48
(2,1445)	1:D:32:PHE:H	1:D:31:LEU:HB2	19	0.48
(2,1422)	1:D:29:GLN:H	1:D:29:GLN:HG2	5	0.48
(2,1422)	1:D:29:GLN:H	1:D:29:GLN:HG3	5	0.48
(2,1422)	1:D:29:GLN:H	1:D:29:GLN:HG2	18	0.48
(2,1422)	1:D:29:GLN:H	1:D:29:GLN:HG3	18	0.48
(2,120)	1:A:19:GLU:H	1:A:18:ILE:HA	16	0.48
(2,1046)	1:C:34:ASN:H	1:C:31:LEU:HA	16	0.48
(2,1031)	1:C:32:PHE:H	1:C:31:LEU:HB2	9	0.48
(2,1008)	1:C:29:GLN:H	1:C:29:GLN:HG2	5	0.48
(2,1008)	1:C:29:GLN:H	1:C:29:GLN:HG3	5	0.48
(2,1008)	1:C:29:GLN:H	1:C:29:GLN:HG2	17	0.48
(2,1008)	1:C:29:GLN:H	1:C:29:GLN:HG3	17	0.48
(2,1001)	1:C:29:GLN:H	1:C:28:LEU:HG	3	0.48
(2,985)	1:C:27:ASN:H	1:C:25:ARG:H	3	0.47
(2,632)	1:B:34:ASN:H	1:B:31:LEU:HA	19	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,617)	1:B:32:PHE:H	1:B:31:LEU:HB2	6	0.47
(2,594)	1:B:29:GLN:H	1:B:29:GLN:HG2	18	0.47
(2,594)	1:B:29:GLN:H	1:B:29:GLN:HG3	18	0.47
(2,534)	1:B:19:GLU:H	1:B:18:ILE:HA	16	0.47
(2,203)	1:A:32:PHE:H	1:A:31:LEU:HB2	6	0.47
(2,203)	1:A:32:PHE:H	1:A:31:LEU:HB2	9	0.47
(2,203)	1:A:32:PHE:H	1:A:31:LEU:HB2	13	0.47
(2,203)	1:A:32:PHE:H	1:A:31:LEU:HB2	15	0.47
(2,196)	1:A:31:LEU:H	1:A:30:ASN:HD21	4	0.47
(2,1874)	1:E:34:ASN:H	1:E:31:LEU:HA	19	0.47
(2,1859)	1:E:32:PHE:H	1:E:31:LEU:HB2	15	0.47
(2,1836)	1:E:29:GLN:H	1:E:29:GLN:HG2	18	0.47
(2,1836)	1:E:29:GLN:H	1:E:29:GLN:HG3	18	0.47
(2,180)	1:A:29:GLN:H	1:A:29:GLN:HG2	18	0.47
(2,180)	1:A:29:GLN:H	1:A:29:GLN:HG3	18	0.47
(2,1776)	1:E:19:GLU:H	1:E:18:ILE:HA	16	0.47
(2,173)	1:A:29:GLN:H	1:A:28:LEU:HG	3	0.47
(2,1460)	1:D:34:ASN:H	1:D:31:LEU:HA	13	0.47
(2,1445)	1:D:32:PHE:H	1:D:31:LEU:HB2	9	0.47
(2,1445)	1:D:32:PHE:H	1:D:31:LEU:HB2	13	0.47
(2,1438)	1:D:31:LEU:H	1:D:30:ASN:HD21	1	0.47
(2,1422)	1:D:29:GLN:H	1:D:29:GLN:HG2	6	0.47
(2,1422)	1:D:29:GLN:H	1:D:29:GLN:HG3	6	0.47
(2,1362)	1:D:19:GLU:H	1:D:18:ILE:HA	16	0.47
(2,1031)	1:C:32:PHE:H	1:C:31:LEU:HB2	6	0.47
(2,1031)	1:C:32:PHE:H	1:C:31:LEU:HB2	15	0.47
(2,750)	1:B:45:ILE:H	1:B:42:LEU:HA	2	0.46
(2,632)	1:B:34:ASN:H	1:B:31:LEU:HA	13	0.46
(2,617)	1:B:32:PHE:H	1:B:31:LEU:HB2	13	0.46
(2,617)	1:B:32:PHE:H	1:B:31:LEU:HB2	15	0.46
(2,610)	1:B:31:LEU:H	1:B:30:ASN:HD21	1	0.46
(2,610)	1:B:31:LEU:H	1:B:30:ASN:HD21	4	0.46
(2,594)	1:B:29:GLN:H	1:B:29:GLN:HG2	6	0.46
(2,594)	1:B:29:GLN:H	1:B:29:GLN:HG3	6	0.46
(2,218)	1:A:34:ASN:H	1:A:31:LEU:HA	19	0.46
(2,203)	1:A:32:PHE:H	1:A:31:LEU:HB2	12	0.46
(2,1986)	1:E:44:LEU:H	1:E:44:LEU:HG	7	0.46
(2,196)	1:A:31:LEU:H	1:A:30:ASN:HD21	1	0.46
(2,1874)	1:E:34:ASN:H	1:E:31:LEU:HA	13	0.46
(2,1859)	1:E:32:PHE:H	1:E:31:LEU:HB2	13	0.46
(2,183)	1:A:30:ASN:H	1:A:26:GLN:HA	9	0.46
(2,180)	1:A:29:GLN:H	1:A:29:GLN:HG2	6	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,180)	1:A:29:GLN:H	1:A:29:GLN:HG3	6	0.46
(2,1445)	1:D:32:PHE:H	1:D:31:LEU:HB2	15	0.46
(2,1415)	1:D:29:GLN:H	1:D:28:LEU:HG	3	0.46
(2,1046)	1:C:34:ASN:H	1:C:31:LEU:HA	13	0.46
(2,1046)	1:C:34:ASN:H	1:C:31:LEU:HA	19	0.46
(2,1031)	1:C:32:PHE:H	1:C:31:LEU:HB2	13	0.46
(2,1024)	1:C:31:LEU:H	1:C:30:ASN:HD21	4	0.46
(2,1008)	1:C:29:GLN:H	1:C:29:GLN:HG2	6	0.46
(2,1008)	1:C:29:GLN:H	1:C:29:GLN:HG3	6	0.46
(2,617)	1:B:32:PHE:H	1:B:31:LEU:HB2	5	0.45
(2,617)	1:B:32:PHE:H	1:B:31:LEU:HB2	8	0.45
(2,218)	1:A:34:ASN:H	1:A:31:LEU:HA	13	0.45
(2,203)	1:A:32:PHE:H	1:A:31:LEU:HB2	8	0.45
(2,1859)	1:E:32:PHE:H	1:E:31:LEU:HB2	5	0.45
(2,1859)	1:E:32:PHE:H	1:E:31:LEU:HB2	8	0.45
(2,1852)	1:E:31:LEU:H	1:E:30:ASN:HD21	4	0.45
(2,1829)	1:E:29:GLN:H	1:E:28:LEU:HG	3	0.45
(2,1460)	1:D:34:ASN:H	1:D:31:LEU:HA	19	0.45
(2,1438)	1:D:31:LEU:H	1:D:30:ASN:HD21	4	0.45
(2,1438)	1:D:31:LEU:H	1:D:30:ASN:HD21	20	0.45
(2,1031)	1:C:32:PHE:H	1:C:31:LEU:HB2	5	0.45
(2,1024)	1:C:31:LEU:H	1:C:30:ASN:HD21	1	0.45
(2,1024)	1:C:31:LEU:H	1:C:30:ASN:HD21	20	0.45
(2,985)	1:C:27:ASN:H	1:C:25:ARG:H	16	0.44
(2,610)	1:B:31:LEU:H	1:B:30:ASN:HD21	20	0.44
(2,203)	1:A:32:PHE:H	1:A:31:LEU:HB2	5	0.44
(2,1813)	1:E:27:ASN:H	1:E:25:ARG:H	3	0.44
(2,180)	1:A:29:GLN:H	1:A:29:GLN:HG2	4	0.44
(2,180)	1:A:29:GLN:H	1:A:29:GLN:HG3	4	0.44
(2,1578)	1:D:45:ILE:H	1:D:42:LEU:HA	2	0.44
(2,157)	1:A:27:ASN:H	1:A:25:ARG:H	16	0.44
(2,1445)	1:D:32:PHE:H	1:D:31:LEU:HB2	5	0.44
(2,1445)	1:D:32:PHE:H	1:D:31:LEU:HB2	8	0.44
(2,1438)	1:D:31:LEU:H	1:D:30:ASN:HD21	17	0.44
(2,1422)	1:D:29:GLN:H	1:D:29:GLN:HG2	4	0.44
(2,1422)	1:D:29:GLN:H	1:D:29:GLN:HG3	4	0.44
(2,1031)	1:C:32:PHE:H	1:C:31:LEU:HB2	8	0.44
(2,826)	1:B:52:LEU:H	1:B:52:LEU:HB2	19	0.43
(2,826)	1:B:52:LEU:H	1:B:52:LEU:HB3	19	0.43
(2,594)	1:B:29:GLN:H	1:B:29:GLN:HG2	4	0.43
(2,594)	1:B:29:GLN:H	1:B:29:GLN:HG3	4	0.43
(2,594)	1:B:29:GLN:H	1:B:29:GLN:HG2	20	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,594)	1:B:29:GLN:H	1:B:29:GLN:HG3	20	0.43
(2,587)	1:B:29:GLN:H	1:B:28:LEU:HG	18	0.43
(2,529)	1:B:18:ILE:H	1:B:18:ILE:HB	15	0.43
(2,1992)	1:E:45:ILE:H	1:E:42:LEU:HA	2	0.43
(2,196)	1:A:31:LEU:H	1:A:30:ASN:HD21	20	0.43
(2,1852)	1:E:31:LEU:H	1:E:30:ASN:HD21	17	0.43
(2,1852)	1:E:31:LEU:H	1:E:30:ASN:HD21	20	0.43
(2,1850)	1:E:31:LEU:H	1:E:28:LEU:HA	12	0.43
(2,1839)	1:E:30:ASN:H	1:E:26:GLN:HA	9	0.43
(2,1836)	1:E:29:GLN:H	1:E:29:GLN:HG2	4	0.43
(2,1836)	1:E:29:GLN:H	1:E:29:GLN:HG3	4	0.43
(2,1771)	1:E:18:ILE:H	1:E:18:ILE:HB	15	0.43
(2,173)	1:A:29:GLN:H	1:A:28:LEU:HG	18	0.43
(2,1438)	1:D:31:LEU:H	1:D:30:ASN:HD21	14	0.43
(2,1399)	1:D:27:ASN:H	1:D:25:ARG:H	3	0.43
(2,1357)	1:D:18:ILE:H	1:D:18:ILE:HB	15	0.43
(2,1240)	1:C:52:LEU:H	1:C:52:LEU:HB2	19	0.43
(2,1240)	1:C:52:LEU:H	1:C:52:LEU:HB3	19	0.43
(2,115)	1:A:18:ILE:H	1:A:18:ILE:HB	15	0.43
(2,1008)	1:C:29:GLN:H	1:C:29:GLN:HG2	4	0.43
(2,1008)	1:C:29:GLN:H	1:C:29:GLN:HG3	4	0.43
(2,943)	1:C:18:ILE:H	1:C:18:ILE:HB	15	0.42
(2,617)	1:B:32:PHE:H	1:B:31:LEU:HB2	2	0.42
(2,571)	1:B:27:ASN:H	1:B:25:ARG:H	3	0.42
(2,412)	1:A:52:LEU:H	1:A:52:LEU:HB2	19	0.42
(2,412)	1:A:52:LEU:H	1:A:52:LEU:HB3	19	0.42
(2,2068)	1:E:52:LEU:H	1:E:52:LEU:HB2	19	0.42
(2,2068)	1:E:52:LEU:H	1:E:52:LEU:HB3	19	0.42
(2,203)	1:A:32:PHE:H	1:A:31:LEU:HB2	2	0.42
(2,1829)	1:E:29:GLN:H	1:E:28:LEU:HG	18	0.42
(2,180)	1:A:29:GLN:H	1:A:29:GLN:HG2	20	0.42
(2,180)	1:A:29:GLN:H	1:A:29:GLN:HG3	20	0.42
(2,157)	1:A:27:ASN:H	1:A:25:ARG:H	3	0.42
(2,1445)	1:D:32:PHE:H	1:D:31:LEU:HB2	2	0.42
(2,1422)	1:D:29:GLN:H	1:D:29:GLN:HG2	20	0.42
(2,1422)	1:D:29:GLN:H	1:D:29:GLN:HG3	20	0.42
(2,1031)	1:C:32:PHE:H	1:C:31:LEU:HB2	2	0.42
(2,597)	1:B:30:ASN:H	1:B:26:GLN:HA	9	0.41
(2,1859)	1:E:32:PHE:H	1:E:31:LEU:HB2	2	0.41
(2,1836)	1:E:29:GLN:H	1:E:29:GLN:HG2	20	0.41
(2,1836)	1:E:29:GLN:H	1:E:29:GLN:HG3	20	0.41
(2,1654)	1:D:52:LEU:H	1:D:52:LEU:HB2	19	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1654)	1:D:52:LEU:H	1:D:52:LEU:HB3	19	0.41
(2,1164)	1:C:45:ILE:H	1:C:42:LEU:HA	12	0.41
(2,1024)	1:C:31:LEU:H	1:C:30:ASN:HD21	17	0.41
(2,1022)	1:C:31:LEU:H	1:C:28:LEU:HA	12	0.41
(2,1011)	1:C:30:ASN:H	1:C:26:GLN:HA	9	0.41
(2,1008)	1:C:29:GLN:H	1:C:29:GLN:HG2	20	0.41
(2,1008)	1:C:29:GLN:H	1:C:29:GLN:HG3	20	0.41
(2,1001)	1:C:29:GLN:H	1:C:28:LEU:HG	18	0.41
(2,608)	1:B:31:LEU:H	1:B:28:LEU:HA	12	0.4
(2,336)	1:A:45:ILE:H	1:A:42:LEU:HA	12	0.4
(2,196)	1:A:31:LEU:H	1:A:30:ASN:HD21	17	0.4
(2,194)	1:A:31:LEU:H	1:A:28:LEU:HA	12	0.4
(2,194)	1:A:31:LEU:H	1:A:28:LEU:HA	14	0.4
(2,1578)	1:D:45:ILE:H	1:D:42:LEU:HA	12	0.4
(2,1415)	1:D:29:GLN:H	1:D:28:LEU:HG	18	0.4
(2,1415)	1:D:29:GLN:H	1:D:28:LEU:HG	20	0.4
(2,1024)	1:C:31:LEU:H	1:C:30:ASN:HD21	14	0.4
(2,716)	1:B:42:LEU:H	1:B:39:LEU:HA	7	0.39
(2,684)	1:B:39:LEU:H	1:B:36:CYS:HA	9	0.39
(2,610)	1:B:31:LEU:H	1:B:30:ASN:HD21	17	0.39
(2,526)	1:B:18:ILE:H	1:B:17:THR:HA	11	0.39
(2,1992)	1:E:45:ILE:H	1:E:42:LEU:HA	12	0.39
(2,1850)	1:E:31:LEU:H	1:E:28:LEU:HA	14	0.39
(2,1829)	1:E:29:GLN:H	1:E:28:LEU:HG	1	0.39
(2,157)	1:A:27:ASN:H	1:A:25:ARG:H	8	0.39
(2,1425)	1:D:30:ASN:H	1:D:26:GLN:HA	9	0.39
(2,1001)	1:C:29:GLN:H	1:C:28:LEU:HG	20	0.39
(2,985)	1:C:27:ASN:H	1:C:25:ARG:H	8	0.38
(2,940)	1:C:18:ILE:H	1:C:17:THR:HA	11	0.38
(2,587)	1:B:29:GLN:H	1:B:28:LEU:HG	20	0.38
(2,336)	1:A:45:ILE:H	1:A:42:LEU:HA	2	0.38
(2,1859)	1:E:32:PHE:H	1:E:31:LEU:HB2	18	0.38
(2,1852)	1:E:31:LEU:H	1:E:30:ASN:HD21	3	0.38
(2,1768)	1:E:18:ILE:H	1:E:17:THR:HA	11	0.38
(2,1544)	1:D:42:LEU:H	1:D:39:LEU:HA	7	0.38
(2,1399)	1:D:27:ASN:H	1:D:25:ARG:H	8	0.38
(2,1354)	1:D:18:ILE:H	1:D:17:THR:HA	11	0.38
(2,112)	1:A:18:ILE:H	1:A:17:THR:HA	11	0.38
(2,750)	1:B:45:ILE:H	1:B:42:LEU:HA	12	0.37
(2,617)	1:B:32:PHE:H	1:B:31:LEU:HB2	18	0.37
(2,610)	1:B:31:LEU:H	1:B:30:ASN:HD21	6	0.37
(2,610)	1:B:31:LEU:H	1:B:30:ASN:HD21	14	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,571)	1:B:27:ASN:H	1:B:25:ARG:H	8	0.37
(2,203)	1:A:32:PHE:H	1:A:31:LEU:HB2	18	0.37
(2,196)	1:A:31:LEU:H	1:A:30:ASN:HD21	3	0.37
(2,1817)	1:E:28:LEU:H	1:E:25:ARG:HA	10	0.37
(2,1813)	1:E:27:ASN:H	1:E:25:ARG:H	8	0.37
(2,173)	1:A:29:GLN:H	1:A:28:LEU:HG	1	0.37
(2,1445)	1:D:32:PHE:H	1:D:31:LEU:HB2	18	0.37
(2,1438)	1:D:31:LEU:H	1:D:30:ASN:HD21	12	0.37
(2,1189)	1:C:47:ILE:H	1:C:47:ILE:HD11	20	0.37
(2,1189)	1:C:47:ILE:H	1:C:47:ILE:HD12	20	0.37
(2,1189)	1:C:47:ILE:H	1:C:47:ILE:HD13	20	0.37
(2,1130)	1:C:42:LEU:H	1:C:39:LEU:HA	7	0.37
(2,1098)	1:C:39:LEU:H	1:C:36:CYS:HA	1	0.37
(2,1031)	1:C:32:PHE:H	1:C:31:LEU:HB2	18	0.37
(2,1001)	1:C:29:GLN:H	1:C:28:LEU:HG	1	0.37
(2,610)	1:B:31:LEU:H	1:B:30:ASN:HD21	3	0.36
(2,1852)	1:E:31:LEU:H	1:E:30:ASN:HD21	14	0.36
(2,1777)	1:E:19:GLU:H	1:E:18:ILE:HD11	20	0.36
(2,1777)	1:E:19:GLU:H	1:E:18:ILE:HD12	20	0.36
(2,1777)	1:E:19:GLU:H	1:E:18:ILE:HD13	20	0.36
(2,173)	1:A:29:GLN:H	1:A:28:LEU:HG	11	0.36
(2,1438)	1:D:31:LEU:H	1:D:30:ASN:HD21	6	0.36
(2,1437)	1:D:31:LEU:H	1:D:27:ASN:HA	7	0.36
(2,1024)	1:C:31:LEU:H	1:C:30:ASN:HD21	6	0.36
(2,956)	1:C:20:MET:H	1:C:19:GLU:HA	20	0.35
(2,949)	1:C:19:GLU:H	1:C:18:ILE:HD11	20	0.35
(2,949)	1:C:19:GLU:H	1:C:18:ILE:HD12	20	0.35
(2,949)	1:C:19:GLU:H	1:C:18:ILE:HD13	20	0.35
(2,716)	1:B:42:LEU:H	1:B:39:LEU:HA	6	0.35
(2,684)	1:B:39:LEU:H	1:B:36:CYS:HA	7	0.35
(2,587)	1:B:29:GLN:H	1:B:28:LEU:HG	11	0.35
(2,541)	1:B:20:MET:H	1:B:18:ILE:HG12	13	0.35
(2,541)	1:B:20:MET:H	1:B:18:ILE:HG13	13	0.35
(2,196)	1:A:31:LEU:H	1:A:30:ASN:HD21	6	0.35
(2,1958)	1:E:42:LEU:H	1:E:39:LEU:HA	7	0.35
(2,195)	1:A:31:LEU:H	1:A:27:ASN:HA	9	0.35
(2,1852)	1:E:31:LEU:H	1:E:30:ASN:HD21	6	0.35
(2,1829)	1:E:29:GLN:H	1:E:28:LEU:HG	20	0.35
(2,1783)	1:E:20:MET:H	1:E:18:ILE:HG12	13	0.35
(2,1783)	1:E:20:MET:H	1:E:18:ILE:HG13	13	0.35
(2,161)	1:A:28:LEU:H	1:A:25:ARG:HA	10	0.35
(2,1436)	1:D:31:LEU:H	1:D:28:LEU:HA	14	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1403)	1:D:28:LEU:H	1:D:25:ARG:HA	10	0.35
(2,1164)	1:C:45:ILE:H	1:C:42:LEU:HA	2	0.35
(2,1024)	1:C:31:LEU:H	1:C:30:ASN:HD21	3	0.35
(2,955)	1:C:20:MET:H	1:C:18:ILE:HG12	13	0.34
(2,955)	1:C:20:MET:H	1:C:18:ILE:HG13	13	0.34
(2,949)	1:C:19:GLU:H	1:C:18:ILE:HD11	5	0.34
(2,949)	1:C:19:GLU:H	1:C:18:ILE:HD12	5	0.34
(2,949)	1:C:19:GLU:H	1:C:18:ILE:HD13	5	0.34
(2,587)	1:B:29:GLN:H	1:B:28:LEU:HG	1	0.34
(2,535)	1:B:19:GLU:H	1:B:18:ILE:HD11	5	0.34
(2,535)	1:B:19:GLU:H	1:B:18:ILE:HD12	5	0.34
(2,535)	1:B:19:GLU:H	1:B:18:ILE:HD13	5	0.34
(2,535)	1:B:19:GLU:H	1:B:18:ILE:HD11	20	0.34
(2,535)	1:B:19:GLU:H	1:B:18:ILE:HD12	20	0.34
(2,535)	1:B:19:GLU:H	1:B:18:ILE:HD13	20	0.34
(2,302)	1:A:42:LEU:H	1:A:39:LEU:HA	6	0.34
(2,302)	1:A:42:LEU:H	1:A:39:LEU:HA	7	0.34
(2,1992)	1:E:45:ILE:H	1:E:42:LEU:HA	19	0.34
(2,1906)	1:E:37:LEU:H	1:E:34:ASN:HA	19	0.34
(2,1839)	1:E:30:ASN:H	1:E:26:GLN:HA	18	0.34
(2,183)	1:A:30:ASN:H	1:A:26:GLN:HA	5	0.34
(2,183)	1:A:30:ASN:H	1:A:26:GLN:HA	18	0.34
(2,1829)	1:E:29:GLN:H	1:E:28:LEU:HG	11	0.34
(2,1783)	1:E:20:MET:H	1:E:18:ILE:HG12	16	0.34
(2,1783)	1:E:20:MET:H	1:E:18:ILE:HG13	16	0.34
(2,1777)	1:E:19:GLU:H	1:E:18:ILE:HD11	5	0.34
(2,1777)	1:E:19:GLU:H	1:E:18:ILE:HD12	5	0.34
(2,1777)	1:E:19:GLU:H	1:E:18:ILE:HD13	5	0.34
(2,173)	1:A:29:GLN:H	1:A:28:LEU:HG	20	0.34
(2,1436)	1:D:31:LEU:H	1:D:28:LEU:HA	12	0.34
(2,1425)	1:D:30:ASN:H	1:D:26:GLN:HA	5	0.34
(2,1415)	1:D:29:GLN:H	1:D:28:LEU:HG	1	0.34
(2,1369)	1:D:20:MET:H	1:D:18:ILE:HG12	13	0.34
(2,1369)	1:D:20:MET:H	1:D:18:ILE:HG13	13	0.34
(2,1363)	1:D:19:GLU:H	1:D:18:ILE:HD11	5	0.34
(2,1363)	1:D:19:GLU:H	1:D:18:ILE:HD12	5	0.34
(2,1363)	1:D:19:GLU:H	1:D:18:ILE:HD13	5	0.34
(2,1363)	1:D:19:GLU:H	1:D:18:ILE:HD11	20	0.34
(2,1363)	1:D:19:GLU:H	1:D:18:ILE:HD12	20	0.34
(2,1363)	1:D:19:GLU:H	1:D:18:ILE:HD13	20	0.34
(2,127)	1:A:20:MET:H	1:A:18:ILE:HG12	13	0.34
(2,127)	1:A:20:MET:H	1:A:18:ILE:HG13	13	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,121)	1:A:19:GLU:H	1:A:18:ILE:HD11	5	0.34
(2,121)	1:A:19:GLU:H	1:A:18:ILE:HD12	5	0.34
(2,121)	1:A:19:GLU:H	1:A:18:ILE:HD13	5	0.34
(2,121)	1:A:19:GLU:H	1:A:18:ILE:HD11	20	0.34
(2,121)	1:A:19:GLU:H	1:A:18:ILE:HD12	20	0.34
(2,121)	1:A:19:GLU:H	1:A:18:ILE:HD13	20	0.34
(2,1189)	1:C:47:ILE:H	1:C:47:ILE:HD11	10	0.34
(2,1189)	1:C:47:ILE:H	1:C:47:ILE:HD12	10	0.34
(2,1189)	1:C:47:ILE:H	1:C:47:ILE:HD13	10	0.34
(2,1098)	1:C:39:LEU:H	1:C:36:CYS:HA	6	0.34
(2,1078)	1:C:37:LEU:H	1:C:34:ASN:HA	19	0.34
(2,1024)	1:C:31:LEU:H	1:C:30:ASN:HD21	12	0.34
(2,955)	1:C:20:MET:H	1:C:18:ILE:HG12	16	0.33
(2,955)	1:C:20:MET:H	1:C:18:ILE:HG13	16	0.33
(2,716)	1:B:42:LEU:H	1:B:39:LEU:HA	8	0.33
(2,609)	1:B:31:LEU:H	1:B:27:ASN:HA	7	0.33
(2,608)	1:B:31:LEU:H	1:B:28:LEU:HA	14	0.33
(2,597)	1:B:30:ASN:H	1:B:26:GLN:HA	18	0.33
(2,542)	1:B:20:MET:H	1:B:19:GLU:HA	3	0.33
(2,541)	1:B:20:MET:H	1:B:18:ILE:HG12	16	0.33
(2,541)	1:B:20:MET:H	1:B:18:ILE:HG13	16	0.33
(2,1986)	1:E:44:LEU:H	1:E:44:LEU:HG	9	0.33
(2,196)	1:A:31:LEU:H	1:A:30:ASN:HD21	11	0.33
(2,196)	1:A:31:LEU:H	1:A:30:ASN:HD21	14	0.33
(2,1958)	1:E:42:LEU:H	1:E:39:LEU:HA	8	0.33
(2,194)	1:A:31:LEU:H	1:A:28:LEU:HA	15	0.33
(2,1926)	1:E:39:LEU:H	1:E:36:CYS:HA	6	0.33
(2,1851)	1:E:31:LEU:H	1:E:27:ASN:HA	7	0.33
(2,1851)	1:E:31:LEU:H	1:E:27:ASN:HA	9	0.33
(2,1811)	1:E:27:ASN:H	1:E:24:ALA:HA	14	0.33
(2,1784)	1:E:20:MET:H	1:E:19:GLU:HA	20	0.33
(2,1438)	1:D:31:LEU:H	1:D:30:ASN:HD21	3	0.33
(2,1438)	1:D:31:LEU:H	1:D:30:ASN:HD21	11	0.33
(2,1415)	1:D:29:GLN:H	1:D:28:LEU:HG	11	0.33
(2,1370)	1:D:20:MET:H	1:D:19:GLU:HA	20	0.33
(2,1369)	1:D:20:MET:H	1:D:18:ILE:HG12	16	0.33
(2,1369)	1:D:20:MET:H	1:D:18:ILE:HG13	16	0.33
(2,128)	1:A:20:MET:H	1:A:19:GLU:HA	20	0.33
(2,127)	1:A:20:MET:H	1:A:18:ILE:HG12	16	0.33
(2,127)	1:A:20:MET:H	1:A:18:ILE:HG13	16	0.33
(2,1098)	1:C:39:LEU:H	1:C:36:CYS:HA	17	0.33
(2,1023)	1:C:31:LEU:H	1:C:27:ASN:HA	9	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1022)	1:C:31:LEU:H	1:C:28:LEU:HA	15	0.33
(2,1011)	1:C:30:ASN:H	1:C:26:GLN:HA	18	0.33
(2,1001)	1:C:29:GLN:H	1:C:28:LEU:HG	11	0.33
(2,943)	1:C:18:ILE:H	1:C:18:ILE:HB	14	0.32
(2,610)	1:B:31:LEU:H	1:B:30:ASN:HD21	8	0.32
(2,610)	1:B:31:LEU:H	1:B:30:ASN:HD21	12	0.32
(2,609)	1:B:31:LEU:H	1:B:27:ASN:HA	9	0.32
(2,575)	1:B:28:LEU:H	1:B:25:ARG:HA	10	0.32
(2,542)	1:B:20:MET:H	1:B:19:GLU:HA	20	0.32
(2,529)	1:B:18:ILE:H	1:B:18:ILE:HB	14	0.32
(2,302)	1:A:42:LEU:H	1:A:39:LEU:HA	8	0.32
(2,250)	1:A:37:LEU:H	1:A:34:ASN:HA	19	0.32
(2,1986)	1:E:44:LEU:H	1:E:44:LEU:HG	4	0.32
(2,196)	1:A:31:LEU:H	1:A:30:ASN:HD21	8	0.32
(2,195)	1:A:31:LEU:H	1:A:27:ASN:HA	7	0.32
(2,194)	1:A:31:LEU:H	1:A:28:LEU:HA	16	0.32
(2,1852)	1:E:31:LEU:H	1:E:30:ASN:HD21	8	0.32
(2,1850)	1:E:31:LEU:H	1:E:28:LEU:HA	15	0.32
(2,1771)	1:E:18:ILE:H	1:E:18:ILE:HB	14	0.32
(2,1578)	1:D:45:ILE:H	1:D:42:LEU:HA	4	0.32
(2,1438)	1:D:31:LEU:H	1:D:30:ASN:HD21	8	0.32
(2,1425)	1:D:30:ASN:H	1:D:26:GLN:HA	18	0.32
(2,1357)	1:D:18:ILE:H	1:D:18:ILE:HB	14	0.32
(2,115)	1:A:18:ILE:H	1:A:18:ILE:HB	14	0.32
(2,1024)	1:C:31:LEU:H	1:C:30:ASN:HD21	8	0.32
(2,1023)	1:C:31:LEU:H	1:C:27:ASN:HA	7	0.32
(2,1022)	1:C:31:LEU:H	1:C:28:LEU:HA	14	0.32
(2,943)	1:C:18:ILE:H	1:C:18:ILE:HB	3	0.31
(2,610)	1:B:31:LEU:H	1:B:30:ASN:HD21	9	0.31
(2,608)	1:B:31:LEU:H	1:B:28:LEU:HA	15	0.31
(2,597)	1:B:30:ASN:H	1:B:26:GLN:HA	5	0.31
(2,569)	1:B:27:ASN:H	1:B:24:ALA:HA	14	0.31
(2,330)	1:A:44:LEU:H	1:A:44:LEU:HG	13	0.31
(2,1992)	1:E:45:ILE:H	1:E:42:LEU:HA	15	0.31
(2,196)	1:A:31:LEU:H	1:A:30:ASN:HD21	9	0.31
(2,196)	1:A:31:LEU:H	1:A:30:ASN:HD21	12	0.31
(2,1958)	1:E:42:LEU:H	1:E:39:LEU:HA	14	0.31
(2,1852)	1:E:31:LEU:H	1:E:30:ASN:HD21	9	0.31
(2,1852)	1:E:31:LEU:H	1:E:30:ASN:HD21	11	0.31
(2,1852)	1:E:31:LEU:H	1:E:30:ASN:HD21	12	0.31
(2,1851)	1:E:31:LEU:H	1:E:27:ASN:HA	14	0.31
(2,1771)	1:E:18:ILE:H	1:E:18:ILE:HB	3	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1544)	1:D:42:LEU:H	1:D:39:LEU:HA	6	0.31
(2,1544)	1:D:42:LEU:H	1:D:39:LEU:HA	8	0.31
(2,1492)	1:D:37:LEU:H	1:D:34:ASN:HA	7	0.31
(2,1438)	1:D:31:LEU:H	1:D:30:ASN:HD21	9	0.31
(2,1437)	1:D:31:LEU:H	1:D:27:ASN:HA	9	0.31
(2,1436)	1:D:31:LEU:H	1:D:28:LEU:HA	15	0.31
(2,1357)	1:D:18:ILE:H	1:D:18:ILE:HB	3	0.31
(2,1130)	1:C:42:LEU:H	1:C:39:LEU:HA	8	0.31
(2,1078)	1:C:37:LEU:H	1:C:34:ASN:HA	7	0.31
(2,1024)	1:C:31:LEU:H	1:C:30:ASN:HD21	9	0.31
(2,610)	1:B:31:LEU:H	1:B:30:ASN:HD21	11	0.3
(2,609)	1:B:31:LEU:H	1:B:27:ASN:HA	14	0.3
(2,608)	1:B:31:LEU:H	1:B:28:LEU:HA	6	0.3
(2,336)	1:A:45:ILE:H	1:A:42:LEU:HA	15	0.3
(2,270)	1:A:39:LEU:H	1:A:36:CYS:HA	19	0.3
(2,1906)	1:E:37:LEU:H	1:E:34:ASN:HA	5	0.3
(2,1850)	1:E:31:LEU:H	1:E:28:LEU:HA	9	0.3
(2,1397)	1:D:27:ASN:H	1:D:24:ALA:HA	14	0.3
(2,115)	1:A:18:ILE:H	1:A:18:ILE:HB	3	0.3
(2,1024)	1:C:31:LEU:H	1:C:30:ASN:HD21	11	0.3
(2,1022)	1:C:31:LEU:H	1:C:28:LEU:HA	6	0.3
(2,1011)	1:C:30:ASN:H	1:C:26:GLN:HA	5	0.3
(2,983)	1:C:27:ASN:H	1:C:24:ALA:HA	14	0.29
(2,943)	1:C:18:ILE:H	1:C:18:ILE:HB	2	0.29
(2,72)	1:A:12:ILE:H	1:A:9:ARG:HA	20	0.29
(2,529)	1:B:18:ILE:H	1:B:18:ILE:HB	2	0.29
(2,529)	1:B:18:ILE:H	1:B:18:ILE:HB	16	0.29
(2,336)	1:A:45:ILE:H	1:A:42:LEU:HA	19	0.29
(2,194)	1:A:31:LEU:H	1:A:28:LEU:HA	13	0.29
(2,1926)	1:E:39:LEU:H	1:E:36:CYS:HA	13	0.29
(2,1850)	1:E:31:LEU:H	1:E:28:LEU:HA	13	0.29
(2,1839)	1:E:30:ASN:H	1:E:26:GLN:HA	5	0.29
(2,1771)	1:E:18:ILE:H	1:E:18:ILE:HB	2	0.29
(2,1771)	1:E:18:ILE:H	1:E:18:ILE:HB	16	0.29
(2,1578)	1:D:45:ILE:H	1:D:42:LEU:HA	3	0.29
(2,1572)	1:D:44:LEU:H	1:D:44:LEU:HG	4	0.29
(2,152)	1:A:26:GLN:H	1:A:24:ALA:H	2	0.29
(2,1447)	1:D:32:PHE:H	1:D:29:GLN:HA	18	0.29
(2,1436)	1:D:31:LEU:H	1:D:28:LEU:HA	9	0.29
(2,1357)	1:D:18:ILE:H	1:D:18:ILE:HB	2	0.29
(2,1357)	1:D:18:ILE:H	1:D:18:ILE:HB	16	0.29
(2,1314)	1:D:12:ILE:H	1:D:9:ARG:HA	20	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,115)	1:A:18:ILE:H	1:A:18:ILE:HB	2	0.29
(2,115)	1:A:18:ILE:H	1:A:18:ILE:HB	16	0.29
(2,1130)	1:C:42:LEU:H	1:C:39:LEU:HA	6	0.29
(2,1098)	1:C:39:LEU:H	1:C:36:CYS:HA	19	0.29
(2,1022)	1:C:31:LEU:H	1:C:28:LEU:HA	9	0.29
(2,943)	1:C:18:ILE:H	1:C:18:ILE:HB	16	0.28
(2,775)	1:B:47:ILE:H	1:B:47:ILE:HD11	20	0.28
(2,775)	1:B:47:ILE:H	1:B:47:ILE:HD12	20	0.28
(2,775)	1:B:47:ILE:H	1:B:47:ILE:HD13	20	0.28
(2,750)	1:B:45:ILE:H	1:B:42:LEU:HA	3	0.28
(2,750)	1:B:45:ILE:H	1:B:42:LEU:HA	19	0.28
(2,608)	1:B:31:LEU:H	1:B:28:LEU:HA	9	0.28
(2,608)	1:B:31:LEU:H	1:B:28:LEU:HA	13	0.28
(2,529)	1:B:18:ILE:H	1:B:18:ILE:HB	3	0.28
(2,330)	1:A:44:LEU:H	1:A:44:LEU:HG	7	0.28
(2,1992)	1:E:45:ILE:H	1:E:42:LEU:HA	4	0.28
(2,1986)	1:E:44:LEU:H	1:E:44:LEU:HG	18	0.28
(2,1958)	1:E:42:LEU:H	1:E:39:LEU:HA	17	0.28
(2,194)	1:A:31:LEU:H	1:A:28:LEU:HA	9	0.28
(2,1926)	1:E:39:LEU:H	1:E:36:CYS:HA	11	0.28
(2,1906)	1:E:37:LEU:H	1:E:34:ASN:HA	7	0.28
(2,1808)	1:E:26:GLN:H	1:E:24:ALA:H	2	0.28
(2,1728)	1:E:12:ILE:H	1:E:9:ARG:HA	20	0.28
(2,1603)	1:D:47:ILE:H	1:D:47:ILE:HD11	10	0.28
(2,1603)	1:D:47:ILE:H	1:D:47:ILE:HD12	10	0.28
(2,1603)	1:D:47:ILE:H	1:D:47:ILE:HD13	10	0.28
(2,1578)	1:D:45:ILE:H	1:D:42:LEU:HA	15	0.28
(2,1566)	1:D:44:LEU:H	1:D:41:CYS:HB2	3	0.28
(2,1566)	1:D:44:LEU:H	1:D:41:CYS:HB3	3	0.28
(2,1492)	1:D:37:LEU:H	1:D:34:ASN:HA	19	0.28
(2,1437)	1:D:31:LEU:H	1:D:27:ASN:HA	14	0.28
(2,1394)	1:D:26:GLN:H	1:D:24:ALA:H	2	0.28
(2,1164)	1:C:45:ILE:H	1:C:42:LEU:HA	4	0.28
(2,1130)	1:C:42:LEU:H	1:C:39:LEU:HA	16	0.28
(2,1033)	1:C:32:PHE:H	1:C:29:GLN:HA	18	0.28
(2,1022)	1:C:31:LEU:H	1:C:28:LEU:HA	16	0.28
(2,900)	1:C:12:ILE:H	1:C:9:ARG:HA	20	0.27
(2,750)	1:B:45:ILE:H	1:B:42:LEU:HA	15	0.27
(2,643)	1:B:34:ASN:H	1:B:34:ASN:HB3	14	0.27
(2,619)	1:B:32:PHE:H	1:B:29:GLN:HA	18	0.27
(2,336)	1:A:45:ILE:H	1:A:42:LEU:HA	3	0.27
(2,336)	1:A:45:ILE:H	1:A:42:LEU:HA	4	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,336)	1:A:45:ILE:H	1:A:42:LEU:HA	16	0.27
(2,229)	1:A:34:ASN:H	1:A:34:ASN:HB3	3	0.27
(2,229)	1:A:34:ASN:H	1:A:34:ASN:HB3	11	0.27
(2,229)	1:A:34:ASN:H	1:A:34:ASN:HB3	14	0.27
(2,229)	1:A:34:ASN:H	1:A:34:ASN:HB3	17	0.27
(2,205)	1:A:32:PHE:H	1:A:29:GLN:HA	18	0.27
(2,1992)	1:E:45:ILE:H	1:E:42:LEU:HA	3	0.27
(2,194)	1:A:31:LEU:H	1:A:28:LEU:HA	6	0.27
(2,1885)	1:E:34:ASN:H	1:E:34:ASN:HB3	3	0.27
(2,1885)	1:E:34:ASN:H	1:E:34:ASN:HB3	14	0.27
(2,1861)	1:E:32:PHE:H	1:E:29:GLN:HA	18	0.27
(2,1850)	1:E:31:LEU:H	1:E:28:LEU:HA	6	0.27
(2,1578)	1:D:45:ILE:H	1:D:42:LEU:HA	18	0.27
(2,1492)	1:D:37:LEU:H	1:D:34:ASN:HA	5	0.27
(2,1471)	1:D:34:ASN:H	1:D:34:ASN:HB3	14	0.27
(2,1438)	1:D:31:LEU:H	1:D:30:ASN:HD21	18	0.27
(2,1436)	1:D:31:LEU:H	1:D:28:LEU:HA	6	0.27
(2,1436)	1:D:31:LEU:H	1:D:28:LEU:HA	13	0.27
(2,1130)	1:C:42:LEU:H	1:C:39:LEU:HA	17	0.27
(2,1078)	1:C:37:LEU:H	1:C:34:ASN:HA	5	0.27
(2,1057)	1:C:34:ASN:H	1:C:34:ASN:HB3	14	0.27
(2,1022)	1:C:31:LEU:H	1:C:28:LEU:HA	13	0.27
(2,980)	1:C:26:GLN:H	1:C:24:ALA:H	2	0.26
(2,775)	1:B:47:ILE:H	1:B:47:ILE:HD11	10	0.26
(2,775)	1:B:47:ILE:H	1:B:47:ILE:HD12	10	0.26
(2,775)	1:B:47:ILE:H	1:B:47:ILE:HD13	10	0.26
(2,750)	1:B:45:ILE:H	1:B:42:LEU:HA	11	0.26
(2,72)	1:A:12:ILE:H	1:A:9:ARG:HA	13	0.26
(2,684)	1:B:39:LEU:H	1:B:36:CYS:HA	19	0.26
(2,664)	1:B:37:LEU:H	1:B:34:ASN:HA	5	0.26
(2,643)	1:B:34:ASN:H	1:B:34:ASN:HB3	3	0.26
(2,643)	1:B:34:ASN:H	1:B:34:ASN:HB3	11	0.26
(2,643)	1:B:34:ASN:H	1:B:34:ASN:HB3	17	0.26
(2,643)	1:B:34:ASN:H	1:B:34:ASN:HB3	20	0.26
(2,566)	1:B:26:GLN:H	1:B:24:ALA:H	2	0.26
(2,529)	1:B:18:ILE:H	1:B:18:ILE:HB	18	0.26
(2,336)	1:A:45:ILE:H	1:A:42:LEU:HA	11	0.26
(2,330)	1:A:44:LEU:H	1:A:44:LEU:HG	16	0.26
(2,229)	1:A:34:ASN:H	1:A:34:ASN:HB3	20	0.26
(2,1980)	1:E:44:LEU:H	1:E:41:CYS:HB2	3	0.26
(2,1980)	1:E:44:LEU:H	1:E:41:CYS:HB3	3	0.26
(2,196)	1:A:31:LEU:H	1:A:30:ASN:HD21	18	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1958)	1:E:42:LEU:H	1:E:39:LEU:HA	6	0.26
(2,1885)	1:E:34:ASN:H	1:E:34:ASN:HB3	11	0.26
(2,1885)	1:E:34:ASN:H	1:E:34:ASN:HB3	17	0.26
(2,173)	1:A:29:GLN:H	1:A:28:LEU:HG	19	0.26
(2,1572)	1:D:44:LEU:H	1:D:44:LEU:HG	18	0.26
(2,155)	1:A:27:ASN:H	1:A:24:ALA:HA	14	0.26
(2,1512)	1:D:39:LEU:H	1:D:36:CYS:HA	11	0.26
(2,1512)	1:D:39:LEU:H	1:D:36:CYS:HA	19	0.26
(2,1471)	1:D:34:ASN:H	1:D:34:ASN:HB3	3	0.26
(2,1471)	1:D:34:ASN:H	1:D:34:ASN:HB3	6	0.26
(2,1471)	1:D:34:ASN:H	1:D:34:ASN:HB3	11	0.26
(2,1471)	1:D:34:ASN:H	1:D:34:ASN:HB3	17	0.26
(2,1471)	1:D:34:ASN:H	1:D:34:ASN:HB3	20	0.26
(2,1314)	1:D:12:ILE:H	1:D:9:ARG:HA	13	0.26
(2,1164)	1:C:45:ILE:H	1:C:42:LEU:HA	3	0.26
(2,1164)	1:C:45:ILE:H	1:C:42:LEU:HA	15	0.26
(2,1164)	1:C:45:ILE:H	1:C:42:LEU:HA	19	0.26
(2,1098)	1:C:39:LEU:H	1:C:36:CYS:HA	2	0.26
(2,1057)	1:C:34:ASN:H	1:C:34:ASN:HB3	3	0.26
(2,1057)	1:C:34:ASN:H	1:C:34:ASN:HB3	11	0.26
(2,943)	1:C:18:ILE:H	1:C:18:ILE:HB	4	0.25
(2,943)	1:C:18:ILE:H	1:C:18:ILE:HB	18	0.25
(2,750)	1:B:45:ILE:H	1:B:42:LEU:HA	4	0.25
(2,684)	1:B:39:LEU:H	1:B:36:CYS:HA	4	0.25
(2,610)	1:B:31:LEU:H	1:B:30:ASN:HD21	5	0.25
(2,529)	1:B:18:ILE:H	1:B:18:ILE:HB	4	0.25
(2,486)	1:B:12:ILE:H	1:B:9:ARG:HA	13	0.25
(2,302)	1:A:42:LEU:H	1:A:39:LEU:HA	17	0.25
(2,229)	1:A:34:ASN:H	1:A:34:ASN:HB3	1	0.25
(2,229)	1:A:34:ASN:H	1:A:34:ASN:HB3	6	0.25
(2,2017)	1:E:47:ILE:H	1:E:47:ILE:HD11	10	0.25
(2,2017)	1:E:47:ILE:H	1:E:47:ILE:HD12	10	0.25
(2,2017)	1:E:47:ILE:H	1:E:47:ILE:HD13	10	0.25
(2,1992)	1:E:45:ILE:H	1:E:42:LEU:HA	7	0.25
(2,1992)	1:E:45:ILE:H	1:E:42:LEU:HA	9	0.25
(2,1992)	1:E:45:ILE:H	1:E:42:LEU:HA	16	0.25
(2,1926)	1:E:39:LEU:H	1:E:36:CYS:HA	18	0.25
(2,1885)	1:E:34:ASN:H	1:E:34:ASN:HB3	6	0.25
(2,1885)	1:E:34:ASN:H	1:E:34:ASN:HB3	20	0.25
(2,1852)	1:E:31:LEU:H	1:E:30:ASN:HD21	18	0.25
(2,1850)	1:E:31:LEU:H	1:E:28:LEU:HA	16	0.25
(2,1829)	1:E:29:GLN:H	1:E:28:LEU:HG	19	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1771)	1:E:18:ILE:H	1:E:18:ILE:HB	4	0.25
(2,1771)	1:E:18:ILE:H	1:E:18:ILE:HB	13	0.25
(2,1771)	1:E:18:ILE:H	1:E:18:ILE:HB	18	0.25
(2,1578)	1:D:45:ILE:H	1:D:42:LEU:HA	13	0.25
(2,1471)	1:D:34:ASN:H	1:D:34:ASN:HB3	1	0.25
(2,1357)	1:D:18:ILE:H	1:D:18:ILE:HB	4	0.25
(2,1357)	1:D:18:ILE:H	1:D:18:ILE:HB	18	0.25
(2,115)	1:A:18:ILE:H	1:A:18:ILE:HB	4	0.25
(2,115)	1:A:18:ILE:H	1:A:18:ILE:HB	18	0.25
(2,1130)	1:C:42:LEU:H	1:C:39:LEU:HA	1	0.25
(2,1098)	1:C:39:LEU:H	1:C:36:CYS:HA	20	0.25
(2,1057)	1:C:34:ASN:H	1:C:34:ASN:HB3	6	0.25
(2,1057)	1:C:34:ASN:H	1:C:34:ASN:HB3	17	0.25
(2,1057)	1:C:34:ASN:H	1:C:34:ASN:HB3	20	0.25
(2,1023)	1:C:31:LEU:H	1:C:27:ASN:HA	14	0.25
(2,949)	1:C:19:GLU:H	1:C:18:ILE:HD11	15	0.24
(2,949)	1:C:19:GLU:H	1:C:18:ILE:HD12	15	0.24
(2,949)	1:C:19:GLU:H	1:C:18:ILE:HD13	15	0.24
(2,943)	1:C:18:ILE:H	1:C:18:ILE:HB	13	0.24
(2,900)	1:C:12:ILE:H	1:C:9:ARG:HA	13	0.24
(2,750)	1:B:45:ILE:H	1:B:42:LEU:HA	6	0.24
(2,716)	1:B:42:LEU:H	1:B:39:LEU:HA	9	0.24
(2,643)	1:B:34:ASN:H	1:B:34:ASN:HB3	1	0.24
(2,643)	1:B:34:ASN:H	1:B:34:ASN:HB3	2	0.24
(2,643)	1:B:34:ASN:H	1:B:34:ASN:HB3	6	0.24
(2,643)	1:B:34:ASN:H	1:B:34:ASN:HB3	9	0.24
(2,608)	1:B:31:LEU:H	1:B:28:LEU:HA	16	0.24
(2,529)	1:B:18:ILE:H	1:B:18:ILE:HB	13	0.24
(2,229)	1:A:34:ASN:H	1:A:34:ASN:HB3	8	0.24
(2,229)	1:A:34:ASN:H	1:A:34:ASN:HB3	9	0.24
(2,225)	1:A:27:ASN:HD21	1:A:27:ASN:HB3	19	0.24
(2,2045)	1:E:50:MET:H	1:E:50:MET:HB3	19	0.24
(2,196)	1:A:31:LEU:H	1:A:30:ASN:HD21	7	0.24
(2,1958)	1:E:42:LEU:H	1:E:39:LEU:HA	1	0.24
(2,1926)	1:E:39:LEU:H	1:E:36:CYS:HA	20	0.24
(2,1885)	1:E:34:ASN:H	1:E:34:ASN:HB3	8	0.24
(2,1885)	1:E:34:ASN:H	1:E:34:ASN:HB3	9	0.24
(2,1852)	1:E:31:LEU:H	1:E:30:ASN:HD21	7	0.24
(2,1829)	1:E:29:GLN:H	1:E:28:LEU:HG	5	0.24
(2,1728)	1:E:12:ILE:H	1:E:9:ARG:HA	13	0.24
(2,1631)	1:D:50:MET:H	1:D:50:MET:HB3	19	0.24
(2,1578)	1:D:45:ILE:H	1:D:42:LEU:HA	5	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1578)	1:D:45:ILE:H	1:D:42:LEU:HA	16	0.24
(2,1578)	1:D:45:ILE:H	1:D:42:LEU:HA	19	0.24
(2,1566)	1:D:44:LEU:H	1:D:41:CYS:HB2	5	0.24
(2,1566)	1:D:44:LEU:H	1:D:41:CYS:HB3	5	0.24
(2,1544)	1:D:42:LEU:H	1:D:39:LEU:HA	17	0.24
(2,1471)	1:D:34:ASN:H	1:D:34:ASN:HB3	8	0.24
(2,1467)	1:D:27:ASN:HD21	1:D:27:ASN:HB3	19	0.24
(2,1438)	1:D:31:LEU:H	1:D:30:ASN:HD21	2	0.24
(2,1438)	1:D:31:LEU:H	1:D:30:ASN:HD21	7	0.24
(2,1436)	1:D:31:LEU:H	1:D:28:LEU:HA	16	0.24
(2,1357)	1:D:18:ILE:H	1:D:18:ILE:HB	13	0.24
(2,1217)	1:C:50:MET:H	1:C:50:MET:HB3	19	0.24
(2,115)	1:A:18:ILE:H	1:A:18:ILE:HB	13	0.24
(2,1057)	1:C:34:ASN:H	1:C:34:ASN:HB3	1	0.24
(2,1057)	1:C:34:ASN:H	1:C:34:ASN:HB3	9	0.24
(2,1024)	1:C:31:LEU:H	1:C:30:ASN:HD21	5	0.24
(2,1001)	1:C:29:GLN:H	1:C:28:LEU:HG	5	0.24
(2,943)	1:C:18:ILE:H	1:C:18:ILE:HB	17	0.23
(2,803)	1:B:50:MET:H	1:B:50:MET:HB3	19	0.23
(2,750)	1:B:45:ILE:H	1:B:42:LEU:HA	18	0.23
(2,716)	1:B:42:LEU:H	1:B:39:LEU:HA	19	0.23
(2,643)	1:B:34:ASN:H	1:B:34:ASN:HB3	5	0.23
(2,643)	1:B:34:ASN:H	1:B:34:ASN:HB3	8	0.23
(2,643)	1:B:34:ASN:H	1:B:34:ASN:HB3	10	0.23
(2,639)	1:B:27:ASN:HD21	1:B:27:ASN:HB3	19	0.23
(2,587)	1:B:29:GLN:H	1:B:28:LEU:HG	5	0.23
(2,587)	1:B:29:GLN:H	1:B:28:LEU:HG	19	0.23
(2,535)	1:B:19:GLU:H	1:B:18:ILE:HD11	15	0.23
(2,535)	1:B:19:GLU:H	1:B:18:ILE:HD12	15	0.23
(2,535)	1:B:19:GLU:H	1:B:18:ILE:HD13	15	0.23
(2,529)	1:B:18:ILE:H	1:B:18:ILE:HB	17	0.23
(2,389)	1:A:50:MET:H	1:A:50:MET:HB3	19	0.23
(2,336)	1:A:45:ILE:H	1:A:42:LEU:HA	13	0.23
(2,229)	1:A:34:ASN:H	1:A:34:ASN:HB3	2	0.23
(2,229)	1:A:34:ASN:H	1:A:34:ASN:HB3	4	0.23
(2,229)	1:A:34:ASN:H	1:A:34:ASN:HB3	5	0.23
(2,229)	1:A:34:ASN:H	1:A:34:ASN:HB3	10	0.23
(2,1986)	1:E:44:LEU:H	1:E:44:LEU:HG	16	0.23
(2,196)	1:A:31:LEU:H	1:A:30:ASN:HD21	5	0.23
(2,195)	1:A:31:LEU:H	1:A:27:ASN:HA	14	0.23
(2,1906)	1:E:37:LEU:H	1:E:34:ASN:HA	18	0.23
(2,1885)	1:E:34:ASN:H	1:E:34:ASN:HB3	1	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1885)	1:E:34:ASN:H	1:E:34:ASN:HB3	2	0.23
(2,1885)	1:E:34:ASN:H	1:E:34:ASN:HB3	5	0.23
(2,1885)	1:E:34:ASN:H	1:E:34:ASN:HB3	10	0.23
(2,1881)	1:E:27:ASN:HD21	1:E:27:ASN:HB3	19	0.23
(2,1777)	1:E:19:GLU:H	1:E:18:ILE:HD11	15	0.23
(2,1777)	1:E:19:GLU:H	1:E:18:ILE:HD12	15	0.23
(2,1777)	1:E:19:GLU:H	1:E:18:ILE:HD13	15	0.23
(2,1771)	1:E:18:ILE:H	1:E:18:ILE:HB	17	0.23
(2,173)	1:A:29:GLN:H	1:A:28:LEU:HG	5	0.23
(2,1544)	1:D:42:LEU:H	1:D:39:LEU:HA	1	0.23
(2,1471)	1:D:34:ASN:H	1:D:34:ASN:HB3	2	0.23
(2,1471)	1:D:34:ASN:H	1:D:34:ASN:HB3	5	0.23
(2,1471)	1:D:34:ASN:H	1:D:34:ASN:HB3	9	0.23
(2,1415)	1:D:29:GLN:H	1:D:28:LEU:HG	5	0.23
(2,1363)	1:D:19:GLU:H	1:D:18:ILE:HD11	15	0.23
(2,1363)	1:D:19:GLU:H	1:D:18:ILE:HD12	15	0.23
(2,1363)	1:D:19:GLU:H	1:D:18:ILE:HD13	15	0.23
(2,1357)	1:D:18:ILE:H	1:D:18:ILE:HB	17	0.23
(2,121)	1:A:19:GLU:H	1:A:18:ILE:HD11	15	0.23
(2,121)	1:A:19:GLU:H	1:A:18:ILE:HD12	15	0.23
(2,121)	1:A:19:GLU:H	1:A:18:ILE:HD13	15	0.23
(2,1164)	1:C:45:ILE:H	1:C:42:LEU:HA	10	0.23
(2,1164)	1:C:45:ILE:H	1:C:42:LEU:HA	11	0.23
(2,115)	1:A:18:ILE:H	1:A:18:ILE:HB	17	0.23
(2,1057)	1:C:34:ASN:H	1:C:34:ASN:HB3	2	0.23
(2,1057)	1:C:34:ASN:H	1:C:34:ASN:HB3	4	0.23
(2,1057)	1:C:34:ASN:H	1:C:34:ASN:HB3	5	0.23
(2,1057)	1:C:34:ASN:H	1:C:34:ASN:HB3	8	0.23
(2,1057)	1:C:34:ASN:H	1:C:34:ASN:HB3	10	0.23
(2,1053)	1:C:27:ASN:HD21	1:C:27:ASN:HB3	19	0.23
(2,775)	1:B:47:ILE:H	1:B:47:ILE:HD11	2	0.22
(2,775)	1:B:47:ILE:H	1:B:47:ILE:HD12	2	0.22
(2,775)	1:B:47:ILE:H	1:B:47:ILE:HD13	2	0.22
(2,750)	1:B:45:ILE:H	1:B:42:LEU:HA	9	0.22
(2,750)	1:B:45:ILE:H	1:B:42:LEU:HA	13	0.22
(2,716)	1:B:42:LEU:H	1:B:39:LEU:HA	1	0.22
(2,684)	1:B:39:LEU:H	1:B:36:CYS:HA	14	0.22
(2,643)	1:B:34:ASN:H	1:B:34:ASN:HB3	4	0.22
(2,640)	1:B:27:ASN:HD22	1:B:27:ASN:HB3	3	0.22
(2,634)	1:B:34:ASN:H	1:B:33:ILE:HA	11	0.22
(2,634)	1:B:34:ASN:H	1:B:33:ILE:HA	14	0.22
(2,610)	1:B:31:LEU:H	1:B:30:ASN:HD21	18	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,389)	1:A:50:MET:H	1:A:50:MET:HB3	13	0.22
(2,336)	1:A:45:ILE:H	1:A:42:LEU:HA	6	0.22
(2,302)	1:A:42:LEU:H	1:A:39:LEU:HA	1	0.22
(2,302)	1:A:42:LEU:H	1:A:39:LEU:HA	9	0.22
(2,270)	1:A:39:LEU:H	1:A:36:CYS:HA	5	0.22
(2,229)	1:A:34:ASN:H	1:A:34:ASN:HB3	18	0.22
(2,220)	1:A:34:ASN:H	1:A:33:ILE:HA	6	0.22
(2,220)	1:A:34:ASN:H	1:A:33:ILE:HA	14	0.22
(2,220)	1:A:34:ASN:H	1:A:33:ILE:HA	17	0.22
(2,1992)	1:E:45:ILE:H	1:E:42:LEU:HA	11	0.22
(2,1992)	1:E:45:ILE:H	1:E:42:LEU:HA	13	0.22
(2,1926)	1:E:39:LEU:H	1:E:36:CYS:HA	5	0.22
(2,1906)	1:E:37:LEU:H	1:E:34:ASN:HA	12	0.22
(2,1885)	1:E:34:ASN:H	1:E:34:ASN:HB3	4	0.22
(2,1885)	1:E:34:ASN:H	1:E:34:ASN:HB3	18	0.22
(2,1876)	1:E:34:ASN:H	1:E:33:ILE:HA	11	0.22
(2,1876)	1:E:34:ASN:H	1:E:33:ILE:HA	14	0.22
(2,1852)	1:E:31:LEU:H	1:E:30:ASN:HD21	2	0.22
(2,1852)	1:E:31:LEU:H	1:E:30:ASN:HD21	5	0.22
(2,1603)	1:D:47:ILE:H	1:D:47:ILE:HD11	2	0.22
(2,1603)	1:D:47:ILE:H	1:D:47:ILE:HD12	2	0.22
(2,1603)	1:D:47:ILE:H	1:D:47:ILE:HD13	2	0.22
(2,1578)	1:D:45:ILE:H	1:D:42:LEU:HA	9	0.22
(2,1492)	1:D:37:LEU:H	1:D:34:ASN:HA	12	0.22
(2,1471)	1:D:34:ASN:H	1:D:34:ASN:HB3	4	0.22
(2,1471)	1:D:34:ASN:H	1:D:34:ASN:HB3	10	0.22
(2,1471)	1:D:34:ASN:H	1:D:34:ASN:HB3	18	0.22
(2,1462)	1:D:34:ASN:H	1:D:33:ILE:HA	1	0.22
(2,1462)	1:D:34:ASN:H	1:D:33:ILE:HA	11	0.22
(2,1462)	1:D:34:ASN:H	1:D:33:ILE:HA	14	0.22
(2,1462)	1:D:34:ASN:H	1:D:33:ILE:HA	17	0.22
(2,1438)	1:D:31:LEU:H	1:D:30:ASN:HD21	5	0.22
(2,1164)	1:C:45:ILE:H	1:C:42:LEU:HA	5	0.22
(2,1164)	1:C:45:ILE:H	1:C:42:LEU:HA	13	0.22
(2,1164)	1:C:45:ILE:H	1:C:42:LEU:HA	18	0.22
(2,1130)	1:C:42:LEU:H	1:C:39:LEU:HA	9	0.22
(2,1078)	1:C:37:LEU:H	1:C:34:ASN:HA	12	0.22
(2,1057)	1:C:34:ASN:H	1:C:34:ASN:HB3	18	0.22
(2,1048)	1:C:34:ASN:H	1:C:33:ILE:HA	11	0.22
(2,1024)	1:C:31:LEU:H	1:C:30:ASN:HD21	18	0.22
(2,900)	1:C:12:ILE:H	1:C:9:ARG:HA	4	0.21
(2,750)	1:B:45:ILE:H	1:B:42:LEU:HA	16	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,716)	1:B:42:LEU:H	1:B:39:LEU:HA	17	0.21
(2,664)	1:B:37:LEU:H	1:B:34:ASN:HA	12	0.21
(2,643)	1:B:34:ASN:H	1:B:34:ASN:HB3	18	0.21
(2,640)	1:B:27:ASN:HD22	1:B:27:ASN:HB3	2	0.21
(2,639)	1:B:27:ASN:HD21	1:B:27:ASN:HB3	14	0.21
(2,634)	1:B:34:ASN:H	1:B:33:ILE:HA	1	0.21
(2,634)	1:B:34:ASN:H	1:B:33:ILE:HA	6	0.21
(2,634)	1:B:34:ASN:H	1:B:33:ILE:HA	17	0.21
(2,634)	1:B:34:ASN:H	1:B:33:ILE:HA	20	0.21
(2,619)	1:B:32:PHE:H	1:B:29:GLN:HA	2	0.21
(2,610)	1:B:31:LEU:H	1:B:30:ASN:HD21	2	0.21
(2,336)	1:A:45:ILE:H	1:A:42:LEU:HA	9	0.21
(2,336)	1:A:45:ILE:H	1:A:42:LEU:HA	18	0.21
(2,302)	1:A:42:LEU:H	1:A:39:LEU:HA	2	0.21
(2,226)	1:A:27:ASN:HD22	1:A:27:ASN:HB3	3	0.21
(2,225)	1:A:27:ASN:HD21	1:A:27:ASN:HB3	14	0.21
(2,220)	1:A:34:ASN:H	1:A:33:ILE:HA	3	0.21
(2,220)	1:A:34:ASN:H	1:A:33:ILE:HA	11	0.21
(2,220)	1:A:34:ASN:H	1:A:33:ILE:HA	20	0.21
(2,2045)	1:E:50:MET:H	1:E:50:MET:HB3	7	0.21
(2,1992)	1:E:45:ILE:H	1:E:42:LEU:HA	5	0.21
(2,1992)	1:E:45:ILE:H	1:E:42:LEU:HA	18	0.21
(2,1958)	1:E:42:LEU:H	1:E:39:LEU:HA	10	0.21
(2,1885)	1:E:34:ASN:H	1:E:34:ASN:HB3	13	0.21
(2,1882)	1:E:27:ASN:HD22	1:E:27:ASN:HB3	2	0.21
(2,1882)	1:E:27:ASN:HD22	1:E:27:ASN:HB3	3	0.21
(2,1881)	1:E:27:ASN:HD21	1:E:27:ASN:HB3	14	0.21
(2,1876)	1:E:34:ASN:H	1:E:33:ILE:HA	6	0.21
(2,1876)	1:E:34:ASN:H	1:E:33:ILE:HA	17	0.21
(2,1876)	1:E:34:ASN:H	1:E:33:ILE:HA	20	0.21
(2,1861)	1:E:32:PHE:H	1:E:29:GLN:HA	2	0.21
(2,1578)	1:D:45:ILE:H	1:D:42:LEU:HA	6	0.21
(2,1578)	1:D:45:ILE:H	1:D:42:LEU:HA	20	0.21
(2,1529)	1:D:39:LEU:H	1:D:35:PHE:HD1	20	0.21
(2,1529)	1:D:39:LEU:H	1:D:35:PHE:HD2	20	0.21
(2,1471)	1:D:34:ASN:H	1:D:34:ASN:HB3	13	0.21
(2,1468)	1:D:27:ASN:HD22	1:D:27:ASN:HB3	3	0.21
(2,1468)	1:D:27:ASN:HD22	1:D:27:ASN:HB3	20	0.21
(2,1467)	1:D:27:ASN:HD21	1:D:27:ASN:HB3	14	0.21
(2,1462)	1:D:34:ASN:H	1:D:33:ILE:HA	6	0.21
(2,1462)	1:D:34:ASN:H	1:D:33:ILE:HA	20	0.21
(2,1447)	1:D:32:PHE:H	1:D:29:GLN:HA	2	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1415)	1:D:29:GLN:H	1:D:28:LEU:HG	19	0.21
(2,1057)	1:C:34:ASN:H	1:C:34:ASN:HB3	13	0.21
(2,1054)	1:C:27:ASN:HD22	1:C:27:ASN:HB3	2	0.21
(2,1048)	1:C:34:ASN:H	1:C:33:ILE:HA	6	0.21
(2,1048)	1:C:34:ASN:H	1:C:33:ILE:HA	14	0.21
(2,1048)	1:C:34:ASN:H	1:C:33:ILE:HA	17	0.21
(2,1048)	1:C:34:ASN:H	1:C:33:ILE:HA	20	0.21
(2,1033)	1:C:32:PHE:H	1:C:29:GLN:HA	2	0.21
(2,1024)	1:C:31:LEU:H	1:C:30:ASN:HD21	2	0.21
(2,1024)	1:C:31:LEU:H	1:C:30:ASN:HD21	7	0.21
(2,943)	1:C:18:ILE:H	1:C:18:ILE:HB	19	0.2
(2,803)	1:B:50:MET:H	1:B:50:MET:HB3	13	0.2
(2,72)	1:A:12:ILE:H	1:A:9:ARG:HA	4	0.2
(2,716)	1:B:42:LEU:H	1:B:39:LEU:HA	13	0.2
(2,684)	1:B:39:LEU:H	1:B:36:CYS:HA	8	0.2
(2,643)	1:B:34:ASN:H	1:B:34:ASN:HB3	13	0.2
(2,640)	1:B:27:ASN:HD22	1:B:27:ASN:HB3	20	0.2
(2,634)	1:B:34:ASN:H	1:B:33:ILE:HA	3	0.2
(2,610)	1:B:31:LEU:H	1:B:30:ASN:HD21	7	0.2
(2,499)	1:B:13:ARG:H	1:B:12:ILE:HA	20	0.2
(2,389)	1:A:50:MET:H	1:A:50:MET:HB3	7	0.2
(2,302)	1:A:42:LEU:H	1:A:39:LEU:HA	14	0.2
(2,229)	1:A:34:ASN:H	1:A:34:ASN:HB3	13	0.2
(2,226)	1:A:27:ASN:HD22	1:A:27:ASN:HB3	2	0.2
(2,226)	1:A:27:ASN:HD22	1:A:27:ASN:HB3	20	0.2
(2,220)	1:A:34:ASN:H	1:A:33:ILE:HA	1	0.2
(2,220)	1:A:34:ASN:H	1:A:33:ILE:HA	13	0.2
(2,2045)	1:E:50:MET:H	1:E:50:MET:HB3	13	0.2
(2,2017)	1:E:47:ILE:H	1:E:47:ILE:HD11	2	0.2
(2,2017)	1:E:47:ILE:H	1:E:47:ILE:HD12	2	0.2
(2,2017)	1:E:47:ILE:H	1:E:47:ILE:HD13	2	0.2
(2,1980)	1:E:44:LEU:H	1:E:41:CYS:HB2	19	0.2
(2,1980)	1:E:44:LEU:H	1:E:41:CYS:HB3	19	0.2
(2,196)	1:A:31:LEU:H	1:A:30:ASN:HD21	2	0.2
(2,1898)	1:E:36:CYS:H	1:E:35:PHE:HA	5	0.2
(2,1898)	1:E:36:CYS:H	1:E:35:PHE:HA	18	0.2
(2,1876)	1:E:34:ASN:H	1:E:33:ILE:HA	1	0.2
(2,1876)	1:E:34:ASN:H	1:E:33:ILE:HA	3	0.2
(2,1631)	1:D:50:MET:H	1:D:50:MET:HB3	13	0.2
(2,1544)	1:D:42:LEU:H	1:D:39:LEU:HA	9	0.2
(2,1544)	1:D:42:LEU:H	1:D:39:LEU:HA	16	0.2
(2,1492)	1:D:37:LEU:H	1:D:34:ASN:HA	8	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1468)	1:D:27:ASN:HD22	1:D:27:ASN:HB3	2	0.2
(2,1462)	1:D:34:ASN:H	1:D:33:ILE:HA	3	0.2
(2,1462)	1:D:34:ASN:H	1:D:33:ILE:HA	13	0.2
(2,1314)	1:D:12:ILE:H	1:D:9:ARG:HA	1	0.2
(2,1314)	1:D:12:ILE:H	1:D:9:ARG:HA	4	0.2
(2,1217)	1:C:50:MET:H	1:C:50:MET:HB3	13	0.2
(2,1164)	1:C:45:ILE:H	1:C:42:LEU:HA	6	0.2
(2,1164)	1:C:45:ILE:H	1:C:42:LEU:HA	16	0.2
(2,113)	1:A:18:ILE:H	1:A:17:THR:H	11	0.2
(2,1078)	1:C:37:LEU:H	1:C:34:ASN:HA	2	0.2
(2,1078)	1:C:37:LEU:H	1:C:34:ASN:HA	8	0.2
(2,1070)	1:C:36:CYS:H	1:C:35:PHE:HA	2	0.2
(2,1054)	1:C:27:ASN:HD22	1:C:27:ASN:HB3	3	0.2
(2,1054)	1:C:27:ASN:HD22	1:C:27:ASN:HB3	20	0.2
(2,1053)	1:C:27:ASN:HD21	1:C:27:ASN:HB3	14	0.2
(2,1048)	1:C:34:ASN:H	1:C:33:ILE:HA	3	0.2
(2,1048)	1:C:34:ASN:H	1:C:33:ILE:HA	13	0.2
(2,1001)	1:C:29:GLN:H	1:C:28:LEU:HG	19	0.2
(2,900)	1:C:12:ILE:H	1:C:9:ARG:HA	3	0.19
(2,835)	1:C:3:LYS:H	1:C:3:LYS:HB3	20	0.19
(2,803)	1:B:50:MET:H	1:B:50:MET:HB3	7	0.19
(2,750)	1:B:45:ILE:H	1:B:42:LEU:HA	10	0.19
(2,750)	1:B:45:ILE:H	1:B:42:LEU:HA	20	0.19
(2,72)	1:A:12:ILE:H	1:A:9:ARG:HA	1	0.19
(2,72)	1:A:12:ILE:H	1:A:9:ARG:HA	3	0.19
(2,72)	1:A:12:ILE:H	1:A:9:ARG:HA	8	0.19
(2,716)	1:B:42:LEU:H	1:B:39:LEU:HA	16	0.19
(2,699)	1:B:40:ILE:H	1:B:37:LEU:HA	7	0.19
(2,664)	1:B:37:LEU:H	1:B:34:ASN:HA	18	0.19
(2,656)	1:B:36:CYS:H	1:B:35:PHE:HA	2	0.19
(2,656)	1:B:36:CYS:H	1:B:35:PHE:HA	8	0.19
(2,643)	1:B:34:ASN:H	1:B:34:ASN:HB3	15	0.19
(2,634)	1:B:34:ASN:H	1:B:33:ILE:HA	9	0.19
(2,634)	1:B:34:ASN:H	1:B:33:ILE:HA	13	0.19
(2,634)	1:B:34:ASN:H	1:B:33:ILE:HA	15	0.19
(2,634)	1:B:34:ASN:H	1:B:33:ILE:HA	16	0.19
(2,529)	1:B:18:ILE:H	1:B:18:ILE:HB	19	0.19
(2,486)	1:B:12:ILE:H	1:B:9:ARG:HA	1	0.19
(2,486)	1:B:12:ILE:H	1:B:9:ARG:HA	3	0.19
(2,486)	1:B:12:ILE:H	1:B:9:ARG:HA	4	0.19
(2,486)	1:B:12:ILE:H	1:B:9:ARG:HA	8	0.19
(2,486)	1:B:12:ILE:H	1:B:9:ARG:HA	20	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,421)	1:B:3:LYS:H	1:B:3:LYS:HB3	16	0.19
(2,408)	1:A:52:LEU:H	1:A:51:LEU:HA	3	0.19
(2,389)	1:A:50:MET:H	1:A:50:MET:HB3	12	0.19
(2,302)	1:A:42:LEU:H	1:A:39:LEU:HA	5	0.19
(2,302)	1:A:42:LEU:H	1:A:39:LEU:HA	10	0.19
(2,302)	1:A:42:LEU:H	1:A:39:LEU:HA	19	0.19
(2,242)	1:A:36:CYS:H	1:A:35:PHE:HA	2	0.19
(2,229)	1:A:34:ASN:H	1:A:34:ASN:HB3	15	0.19
(2,229)	1:A:34:ASN:H	1:A:34:ASN:HB3	16	0.19
(2,220)	1:A:34:ASN:H	1:A:33:ILE:HA	9	0.19
(2,2064)	1:E:52:LEU:H	1:E:51:LEU:HA	3	0.19
(2,205)	1:A:32:PHE:H	1:A:29:GLN:HA	2	0.19
(2,2045)	1:E:50:MET:H	1:E:50:MET:HB3	4	0.19
(2,2045)	1:E:50:MET:H	1:E:50:MET:HB3	11	0.19
(2,2045)	1:E:50:MET:H	1:E:50:MET:HB3	12	0.19
(2,1992)	1:E:45:ILE:H	1:E:42:LEU:HA	6	0.19
(2,194)	1:A:31:LEU:H	1:A:28:LEU:HA	19	0.19
(2,1898)	1:E:36:CYS:H	1:E:35:PHE:HA	2	0.19
(2,1898)	1:E:36:CYS:H	1:E:35:PHE:HA	3	0.19
(2,1898)	1:E:36:CYS:H	1:E:35:PHE:HA	4	0.19
(2,1898)	1:E:36:CYS:H	1:E:35:PHE:HA	8	0.19
(2,1885)	1:E:34:ASN:H	1:E:34:ASN:HB3	15	0.19
(2,1882)	1:E:27:ASN:HD22	1:E:27:ASN:HB3	20	0.19
(2,1876)	1:E:34:ASN:H	1:E:33:ILE:HA	9	0.19
(2,1876)	1:E:34:ASN:H	1:E:33:ILE:HA	13	0.19
(2,1876)	1:E:34:ASN:H	1:E:33:ILE:HA	16	0.19
(2,1771)	1:E:18:ILE:H	1:E:18:ILE:HB	19	0.19
(2,1728)	1:E:12:ILE:H	1:E:9:ARG:HA	1	0.19
(2,1728)	1:E:12:ILE:H	1:E:9:ARG:HA	3	0.19
(2,1728)	1:E:12:ILE:H	1:E:9:ARG:HA	4	0.19
(2,1728)	1:E:12:ILE:H	1:E:9:ARG:HA	8	0.19
(2,1663)	1:E:3:LYS:H	1:E:3:LYS:HB3	14	0.19
(2,1663)	1:E:3:LYS:H	1:E:3:LYS:HB3	16	0.19
(2,1631)	1:D:50:MET:H	1:D:50:MET:HB3	7	0.19
(2,1578)	1:D:45:ILE:H	1:D:42:LEU:HA	7	0.19
(2,1578)	1:D:45:ILE:H	1:D:42:LEU:HA	10	0.19
(2,1484)	1:D:36:CYS:H	1:D:35:PHE:HA	3	0.19
(2,1484)	1:D:36:CYS:H	1:D:35:PHE:HA	5	0.19
(2,1471)	1:D:34:ASN:H	1:D:34:ASN:HB3	15	0.19
(2,1462)	1:D:34:ASN:H	1:D:33:ILE:HA	9	0.19
(2,1462)	1:D:34:ASN:H	1:D:33:ILE:HA	16	0.19
(2,1357)	1:D:18:ILE:H	1:D:18:ILE:HB	19	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1314)	1:D:12:ILE:H	1:D:9:ARG:HA	3	0.19
(2,1314)	1:D:12:ILE:H	1:D:9:ARG:HA	8	0.19
(2,1314)	1:D:12:ILE:H	1:D:9:ARG:HA	16	0.19
(2,1217)	1:C:50:MET:H	1:C:50:MET:HB3	12	0.19
(2,1164)	1:C:45:ILE:H	1:C:42:LEU:HA	9	0.19
(2,1164)	1:C:45:ILE:H	1:C:42:LEU:HA	20	0.19
(2,115)	1:A:18:ILE:H	1:A:18:ILE:HB	19	0.19
(2,1130)	1:C:42:LEU:H	1:C:39:LEU:HA	13	0.19
(2,1130)	1:C:42:LEU:H	1:C:39:LEU:HA	19	0.19
(2,1098)	1:C:39:LEU:H	1:C:36:CYS:HA	9	0.19
(2,1070)	1:C:36:CYS:H	1:C:35:PHE:HA	9	0.19
(2,1070)	1:C:36:CYS:H	1:C:35:PHE:HA	14	0.19
(2,1057)	1:C:34:ASN:H	1:C:34:ASN:HB3	15	0.19
(2,1048)	1:C:34:ASN:H	1:C:33:ILE:HA	1	0.19
(2,1048)	1:C:34:ASN:H	1:C:33:ILE:HA	9	0.19
(2,1048)	1:C:34:ASN:H	1:C:33:ILE:HA	16	0.19
(2,900)	1:C:12:ILE:H	1:C:9:ARG:HA	17	0.18
(2,835)	1:C:3:LYS:H	1:C:3:LYS:HB3	3	0.18
(2,835)	1:C:3:LYS:H	1:C:3:LYS:HB3	4	0.18
(2,835)	1:C:3:LYS:H	1:C:3:LYS:HB3	5	0.18
(2,835)	1:C:3:LYS:H	1:C:3:LYS:HB3	6	0.18
(2,835)	1:C:3:LYS:H	1:C:3:LYS:HB3	7	0.18
(2,835)	1:C:3:LYS:H	1:C:3:LYS:HB3	9	0.18
(2,835)	1:C:3:LYS:H	1:C:3:LYS:HB3	14	0.18
(2,835)	1:C:3:LYS:H	1:C:3:LYS:HB3	15	0.18
(2,835)	1:C:3:LYS:H	1:C:3:LYS:HB3	16	0.18
(2,835)	1:C:3:LYS:H	1:C:3:LYS:HB3	17	0.18
(2,835)	1:C:3:LYS:H	1:C:3:LYS:HB3	18	0.18
(2,803)	1:B:50:MET:H	1:B:50:MET:HB3	1	0.18
(2,803)	1:B:50:MET:H	1:B:50:MET:HB3	4	0.18
(2,803)	1:B:50:MET:H	1:B:50:MET:HB3	8	0.18
(2,803)	1:B:50:MET:H	1:B:50:MET:HB3	17	0.18
(2,750)	1:B:45:ILE:H	1:B:42:LEU:HA	5	0.18
(2,72)	1:A:12:ILE:H	1:A:9:ARG:HA	9	0.18
(2,72)	1:A:12:ILE:H	1:A:9:ARG:HA	16	0.18
(2,716)	1:B:42:LEU:H	1:B:39:LEU:HA	2	0.18
(2,7)	1:A:3:LYS:H	1:A:3:LYS:HB3	3	0.18
(2,7)	1:A:3:LYS:H	1:A:3:LYS:HB3	4	0.18
(2,7)	1:A:3:LYS:H	1:A:3:LYS:HB3	6	0.18
(2,7)	1:A:3:LYS:H	1:A:3:LYS:HB3	7	0.18
(2,7)	1:A:3:LYS:H	1:A:3:LYS:HB3	8	0.18
(2,7)	1:A:3:LYS:H	1:A:3:LYS:HB3	9	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,7)	1:A:3:LYS:H	1:A:3:LYS:HB3	10	0.18
(2,7)	1:A:3:LYS:H	1:A:3:LYS:HB3	11	0.18
(2,7)	1:A:3:LYS:H	1:A:3:LYS:HB3	14	0.18
(2,7)	1:A:3:LYS:H	1:A:3:LYS:HB3	15	0.18
(2,7)	1:A:3:LYS:H	1:A:3:LYS:HB3	16	0.18
(2,7)	1:A:3:LYS:H	1:A:3:LYS:HB3	17	0.18
(2,7)	1:A:3:LYS:H	1:A:3:LYS:HB3	18	0.18
(2,7)	1:A:3:LYS:H	1:A:3:LYS:HB3	20	0.18
(2,656)	1:B:36:CYS:H	1:B:35:PHE:HA	3	0.18
(2,656)	1:B:36:CYS:H	1:B:35:PHE:HA	4	0.18
(2,656)	1:B:36:CYS:H	1:B:35:PHE:HA	5	0.18
(2,656)	1:B:36:CYS:H	1:B:35:PHE:HA	7	0.18
(2,656)	1:B:36:CYS:H	1:B:35:PHE:HA	14	0.18
(2,643)	1:B:34:ASN:H	1:B:34:ASN:HB3	7	0.18
(2,643)	1:B:34:ASN:H	1:B:34:ASN:HB3	16	0.18
(2,634)	1:B:34:ASN:H	1:B:33:ILE:HA	5	0.18
(2,634)	1:B:34:ASN:H	1:B:33:ILE:HA	12	0.18
(2,621)	1:B:32:PHE:H	1:B:31:LEU:HA	17	0.18
(2,608)	1:B:31:LEU:H	1:B:28:LEU:HA	19	0.18
(2,499)	1:B:13:ARG:H	1:B:12:ILE:HA	2	0.18
(2,499)	1:B:13:ARG:H	1:B:12:ILE:HA	11	0.18
(2,499)	1:B:13:ARG:H	1:B:12:ILE:HA	18	0.18
(2,486)	1:B:12:ILE:H	1:B:9:ARG:HA	9	0.18
(2,486)	1:B:12:ILE:H	1:B:9:ARG:HA	16	0.18
(2,421)	1:B:3:LYS:H	1:B:3:LYS:HB3	3	0.18
(2,421)	1:B:3:LYS:H	1:B:3:LYS:HB3	4	0.18
(2,421)	1:B:3:LYS:H	1:B:3:LYS:HB3	6	0.18
(2,421)	1:B:3:LYS:H	1:B:3:LYS:HB3	7	0.18
(2,421)	1:B:3:LYS:H	1:B:3:LYS:HB3	9	0.18
(2,421)	1:B:3:LYS:H	1:B:3:LYS:HB3	10	0.18
(2,421)	1:B:3:LYS:H	1:B:3:LYS:HB3	11	0.18
(2,421)	1:B:3:LYS:H	1:B:3:LYS:HB3	14	0.18
(2,421)	1:B:3:LYS:H	1:B:3:LYS:HB3	17	0.18
(2,421)	1:B:3:LYS:H	1:B:3:LYS:HB3	18	0.18
(2,421)	1:B:3:LYS:H	1:B:3:LYS:HB3	19	0.18
(2,421)	1:B:3:LYS:H	1:B:3:LYS:HB3	20	0.18
(2,389)	1:A:50:MET:H	1:A:50:MET:HB3	4	0.18
(2,389)	1:A:50:MET:H	1:A:50:MET:HB3	11	0.18
(2,389)	1:A:50:MET:H	1:A:50:MET:HB3	16	0.18
(2,361)	1:A:47:ILE:H	1:A:47:ILE:HD11	20	0.18
(2,361)	1:A:47:ILE:H	1:A:47:ILE:HD12	20	0.18
(2,361)	1:A:47:ILE:H	1:A:47:ILE:HD13	20	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,336)	1:A:45:ILE:H	1:A:42:LEU:HA	5	0.18
(2,242)	1:A:36:CYS:H	1:A:35:PHE:HA	3	0.18
(2,242)	1:A:36:CYS:H	1:A:35:PHE:HA	5	0.18
(2,242)	1:A:36:CYS:H	1:A:35:PHE:HA	19	0.18
(2,220)	1:A:34:ASN:H	1:A:33:ILE:HA	12	0.18
(2,220)	1:A:34:ASN:H	1:A:33:ILE:HA	15	0.18
(2,220)	1:A:34:ASN:H	1:A:33:ILE:HA	16	0.18
(2,207)	1:A:32:PHE:H	1:A:31:LEU:HA	7	0.18
(2,2017)	1:E:47:ILE:H	1:E:47:ILE:HD11	20	0.18
(2,2017)	1:E:47:ILE:H	1:E:47:ILE:HD12	20	0.18
(2,2017)	1:E:47:ILE:H	1:E:47:ILE:HD13	20	0.18
(2,1992)	1:E:45:ILE:H	1:E:42:LEU:HA	10	0.18
(2,1980)	1:E:44:LEU:H	1:E:41:CYS:HB2	5	0.18
(2,1980)	1:E:44:LEU:H	1:E:41:CYS:HB3	5	0.18
(2,1958)	1:E:42:LEU:H	1:E:39:LEU:HA	2	0.18
(2,1946)	1:E:41:CYS:H	1:E:38:ILE:HA	13	0.18
(2,1906)	1:E:37:LEU:H	1:E:34:ASN:HA	2	0.18
(2,1898)	1:E:36:CYS:H	1:E:35:PHE:HA	7	0.18
(2,1898)	1:E:36:CYS:H	1:E:35:PHE:HA	9	0.18
(2,1898)	1:E:36:CYS:H	1:E:35:PHE:HA	11	0.18
(2,1898)	1:E:36:CYS:H	1:E:35:PHE:HA	16	0.18
(2,1898)	1:E:36:CYS:H	1:E:35:PHE:HA	20	0.18
(2,1891)	1:E:35:PHE:H	1:E:34:ASN:HA	8	0.18
(2,1885)	1:E:34:ASN:H	1:E:34:ASN:HB3	7	0.18
(2,1885)	1:E:34:ASN:H	1:E:34:ASN:HB3	16	0.18
(2,1876)	1:E:34:ASN:H	1:E:33:ILE:HA	12	0.18
(2,1876)	1:E:34:ASN:H	1:E:33:ILE:HA	15	0.18
(2,1863)	1:E:32:PHE:H	1:E:31:LEU:HA	7	0.18
(2,1813)	1:E:27:ASN:H	1:E:25:ARG:H	13	0.18
(2,1728)	1:E:12:ILE:H	1:E:9:ARG:HA	16	0.18
(2,1663)	1:E:3:LYS:H	1:E:3:LYS:HB3	3	0.18
(2,1663)	1:E:3:LYS:H	1:E:3:LYS:HB3	7	0.18
(2,1663)	1:E:3:LYS:H	1:E:3:LYS:HB3	9	0.18
(2,1663)	1:E:3:LYS:H	1:E:3:LYS:HB3	11	0.18
(2,1663)	1:E:3:LYS:H	1:E:3:LYS:HB3	17	0.18
(2,1663)	1:E:3:LYS:H	1:E:3:LYS:HB3	18	0.18
(2,1663)	1:E:3:LYS:H	1:E:3:LYS:HB3	19	0.18
(2,1663)	1:E:3:LYS:H	1:E:3:LYS:HB3	20	0.18
(2,1631)	1:D:50:MET:H	1:D:50:MET:HB3	4	0.18
(2,1631)	1:D:50:MET:H	1:D:50:MET:HB3	11	0.18
(2,1631)	1:D:50:MET:H	1:D:50:MET:HB3	12	0.18
(2,1603)	1:D:47:ILE:H	1:D:47:ILE:HD11	20	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1603)	1:D:47:ILE:H	1:D:47:ILE:HD12	20	0.18
(2,1603)	1:D:47:ILE:H	1:D:47:ILE:HD13	20	0.18
(2,1544)	1:D:42:LEU:H	1:D:39:LEU:HA	13	0.18
(2,1484)	1:D:36:CYS:H	1:D:35:PHE:HA	2	0.18
(2,1484)	1:D:36:CYS:H	1:D:35:PHE:HA	4	0.18
(2,1484)	1:D:36:CYS:H	1:D:35:PHE:HA	8	0.18
(2,1484)	1:D:36:CYS:H	1:D:35:PHE:HA	9	0.18
(2,1484)	1:D:36:CYS:H	1:D:35:PHE:HA	11	0.18
(2,1477)	1:D:35:PHE:H	1:D:34:ASN:HA	8	0.18
(2,1471)	1:D:34:ASN:H	1:D:34:ASN:HB3	7	0.18
(2,1471)	1:D:34:ASN:H	1:D:34:ASN:HB3	16	0.18
(2,1462)	1:D:34:ASN:H	1:D:33:ILE:HA	4	0.18
(2,1462)	1:D:34:ASN:H	1:D:33:ILE:HA	5	0.18
(2,1462)	1:D:34:ASN:H	1:D:33:ILE:HA	12	0.18
(2,1462)	1:D:34:ASN:H	1:D:33:ILE:HA	15	0.18
(2,1449)	1:D:32:PHE:H	1:D:31:LEU:HA	7	0.18
(2,1363)	1:D:19:GLU:H	1:D:18:ILE:HD11	12	0.18
(2,1363)	1:D:19:GLU:H	1:D:18:ILE:HD12	12	0.18
(2,1363)	1:D:19:GLU:H	1:D:18:ILE:HD13	12	0.18
(2,1314)	1:D:12:ILE:H	1:D:9:ARG:HA	9	0.18
(2,1314)	1:D:12:ILE:H	1:D:9:ARG:HA	17	0.18
(2,1249)	1:D:3:LYS:H	1:D:3:LYS:HB3	3	0.18
(2,1249)	1:D:3:LYS:H	1:D:3:LYS:HB3	4	0.18
(2,1249)	1:D:3:LYS:H	1:D:3:LYS:HB3	5	0.18
(2,1249)	1:D:3:LYS:H	1:D:3:LYS:HB3	6	0.18
(2,1249)	1:D:3:LYS:H	1:D:3:LYS:HB3	7	0.18
(2,1249)	1:D:3:LYS:H	1:D:3:LYS:HB3	8	0.18
(2,1249)	1:D:3:LYS:H	1:D:3:LYS:HB3	9	0.18
(2,1249)	1:D:3:LYS:H	1:D:3:LYS:HB3	11	0.18
(2,1249)	1:D:3:LYS:H	1:D:3:LYS:HB3	14	0.18
(2,1249)	1:D:3:LYS:H	1:D:3:LYS:HB3	15	0.18
(2,1249)	1:D:3:LYS:H	1:D:3:LYS:HB3	16	0.18
(2,1249)	1:D:3:LYS:H	1:D:3:LYS:HB3	17	0.18
(2,1249)	1:D:3:LYS:H	1:D:3:LYS:HB3	18	0.18
(2,1249)	1:D:3:LYS:H	1:D:3:LYS:HB3	19	0.18
(2,1217)	1:C:50:MET:H	1:C:50:MET:HB3	4	0.18
(2,1217)	1:C:50:MET:H	1:C:50:MET:HB3	7	0.18
(2,1217)	1:C:50:MET:H	1:C:50:MET:HB3	11	0.18
(2,1130)	1:C:42:LEU:H	1:C:39:LEU:HA	2	0.18
(2,1130)	1:C:42:LEU:H	1:C:39:LEU:HA	10	0.18
(2,1098)	1:C:39:LEU:H	1:C:36:CYS:HA	14	0.18
(2,1070)	1:C:36:CYS:H	1:C:35:PHE:HA	1	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1070)	1:C:36:CYS:H	1:C:35:PHE:HA	3	0.18
(2,1070)	1:C:36:CYS:H	1:C:35:PHE:HA	4	0.18
(2,1070)	1:C:36:CYS:H	1:C:35:PHE:HA	5	0.18
(2,1070)	1:C:36:CYS:H	1:C:35:PHE:HA	6	0.18
(2,1070)	1:C:36:CYS:H	1:C:35:PHE:HA	7	0.18
(2,1070)	1:C:36:CYS:H	1:C:35:PHE:HA	8	0.18
(2,1070)	1:C:36:CYS:H	1:C:35:PHE:HA	19	0.18
(2,1070)	1:C:36:CYS:H	1:C:35:PHE:HA	20	0.18
(2,1057)	1:C:34:ASN:H	1:C:34:ASN:HB3	7	0.18
(2,1057)	1:C:34:ASN:H	1:C:34:ASN:HB3	16	0.18
(2,1048)	1:C:34:ASN:H	1:C:33:ILE:HA	4	0.18
(2,1048)	1:C:34:ASN:H	1:C:33:ILE:HA	12	0.18
(2,1048)	1:C:34:ASN:H	1:C:33:ILE:HA	15	0.18
(2,1035)	1:C:32:PHE:H	1:C:31:LEU:HA	7	0.18
(2,952)	1:C:19:GLU:H	1:C:19:GLU:HA	5	0.17
(2,952)	1:C:19:GLU:H	1:C:19:GLU:HA	11	0.17
(2,952)	1:C:19:GLU:H	1:C:19:GLU:HA	18	0.17
(2,926)	1:C:15:ALA:H	1:C:14:ARG:HA	20	0.17
(2,900)	1:C:12:ILE:H	1:C:9:ARG:HA	1	0.17
(2,900)	1:C:12:ILE:H	1:C:9:ARG:HA	8	0.17
(2,835)	1:C:3:LYS:H	1:C:3:LYS:HB3	1	0.17
(2,835)	1:C:3:LYS:H	1:C:3:LYS:HB3	2	0.17
(2,835)	1:C:3:LYS:H	1:C:3:LYS:HB3	8	0.17
(2,835)	1:C:3:LYS:H	1:C:3:LYS:HB3	10	0.17
(2,835)	1:C:3:LYS:H	1:C:3:LYS:HB3	11	0.17
(2,835)	1:C:3:LYS:H	1:C:3:LYS:HB3	13	0.17
(2,835)	1:C:3:LYS:H	1:C:3:LYS:HB3	19	0.17
(2,822)	1:B:52:LEU:H	1:B:51:LEU:HA	3	0.17
(2,803)	1:B:50:MET:H	1:B:50:MET:HB3	5	0.17
(2,803)	1:B:50:MET:H	1:B:50:MET:HB3	11	0.17
(2,803)	1:B:50:MET:H	1:B:50:MET:HB3	12	0.17
(2,803)	1:B:50:MET:H	1:B:50:MET:HB3	14	0.17
(2,803)	1:B:50:MET:H	1:B:50:MET:HB3	18	0.17
(2,783)	1:B:48:ILE:H	1:B:45:ILE:HA	12	0.17
(2,72)	1:A:12:ILE:H	1:A:9:ARG:HA	17	0.17
(2,7)	1:A:3:LYS:H	1:A:3:LYS:HB3	1	0.17
(2,7)	1:A:3:LYS:H	1:A:3:LYS:HB3	2	0.17
(2,7)	1:A:3:LYS:H	1:A:3:LYS:HB3	5	0.17
(2,7)	1:A:3:LYS:H	1:A:3:LYS:HB3	13	0.17
(2,7)	1:A:3:LYS:H	1:A:3:LYS:HB3	19	0.17
(2,664)	1:B:37:LEU:H	1:B:34:ASN:HA	2	0.17
(2,664)	1:B:37:LEU:H	1:B:34:ASN:HA	19	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,656)	1:B:36:CYS:H	1:B:35:PHE:HA	16	0.17
(2,656)	1:B:36:CYS:H	1:B:35:PHE:HA	19	0.17
(2,649)	1:B:35:PHE:H	1:B:34:ASN:HA	5	0.17
(2,646)	1:B:35:PHE:H	1:B:33:ILE:HB	3	0.17
(2,643)	1:B:34:ASN:H	1:B:34:ASN:HB3	12	0.17
(2,634)	1:B:34:ASN:H	1:B:33:ILE:HA	2	0.17
(2,634)	1:B:34:ASN:H	1:B:33:ILE:HA	4	0.17
(2,634)	1:B:34:ASN:H	1:B:33:ILE:HA	8	0.17
(2,634)	1:B:34:ASN:H	1:B:33:ILE:HA	10	0.17
(2,634)	1:B:34:ASN:H	1:B:33:ILE:HA	18	0.17
(2,621)	1:B:32:PHE:H	1:B:31:LEU:HA	1	0.17
(2,621)	1:B:32:PHE:H	1:B:31:LEU:HA	7	0.17
(2,621)	1:B:32:PHE:H	1:B:31:LEU:HA	12	0.17
(2,621)	1:B:32:PHE:H	1:B:31:LEU:HA	15	0.17
(2,621)	1:B:32:PHE:H	1:B:31:LEU:HA	16	0.17
(2,538)	1:B:19:GLU:H	1:B:19:GLU:HA	3	0.17
(2,538)	1:B:19:GLU:H	1:B:19:GLU:HA	5	0.17
(2,538)	1:B:19:GLU:H	1:B:19:GLU:HA	11	0.17
(2,538)	1:B:19:GLU:H	1:B:19:GLU:HA	17	0.17
(2,538)	1:B:19:GLU:H	1:B:19:GLU:HA	18	0.17
(2,486)	1:B:12:ILE:H	1:B:9:ARG:HA	10	0.17
(2,421)	1:B:3:LYS:H	1:B:3:LYS:HB3	1	0.17
(2,421)	1:B:3:LYS:H	1:B:3:LYS:HB3	2	0.17
(2,421)	1:B:3:LYS:H	1:B:3:LYS:HB3	5	0.17
(2,421)	1:B:3:LYS:H	1:B:3:LYS:HB3	8	0.17
(2,421)	1:B:3:LYS:H	1:B:3:LYS:HB3	13	0.17
(2,421)	1:B:3:LYS:H	1:B:3:LYS:HB3	15	0.17
(2,408)	1:A:52:LEU:H	1:A:51:LEU:HA	14	0.17
(2,389)	1:A:50:MET:H	1:A:50:MET:HB3	1	0.17
(2,389)	1:A:50:MET:H	1:A:50:MET:HB3	5	0.17
(2,389)	1:A:50:MET:H	1:A:50:MET:HB3	8	0.17
(2,389)	1:A:50:MET:H	1:A:50:MET:HB3	14	0.17
(2,369)	1:A:48:ILE:H	1:A:45:ILE:HA	12	0.17
(2,336)	1:A:45:ILE:H	1:A:42:LEU:HA	10	0.17
(2,336)	1:A:45:ILE:H	1:A:42:LEU:HA	20	0.17
(2,302)	1:A:42:LEU:H	1:A:39:LEU:HA	13	0.17
(2,250)	1:A:37:LEU:H	1:A:34:ASN:HA	2	0.17
(2,242)	1:A:36:CYS:H	1:A:35:PHE:HA	4	0.17
(2,242)	1:A:36:CYS:H	1:A:35:PHE:HA	7	0.17
(2,242)	1:A:36:CYS:H	1:A:35:PHE:HA	8	0.17
(2,242)	1:A:36:CYS:H	1:A:35:PHE:HA	9	0.17
(2,242)	1:A:36:CYS:H	1:A:35:PHE:HA	11	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,242)	1:A:36:CYS:H	1:A:35:PHE:HA	12	0.17
(2,242)	1:A:36:CYS:H	1:A:35:PHE:HA	14	0.17
(2,242)	1:A:36:CYS:H	1:A:35:PHE:HA	15	0.17
(2,242)	1:A:36:CYS:H	1:A:35:PHE:HA	16	0.17
(2,242)	1:A:36:CYS:H	1:A:35:PHE:HA	18	0.17
(2,242)	1:A:36:CYS:H	1:A:35:PHE:HA	20	0.17
(2,235)	1:A:35:PHE:H	1:A:34:ASN:HA	2	0.17
(2,235)	1:A:35:PHE:H	1:A:34:ASN:HA	7	0.17
(2,235)	1:A:35:PHE:H	1:A:34:ASN:HA	8	0.17
(2,235)	1:A:35:PHE:H	1:A:34:ASN:HA	18	0.17
(2,229)	1:A:34:ASN:H	1:A:34:ASN:HB3	7	0.17
(2,229)	1:A:34:ASN:H	1:A:34:ASN:HB3	12	0.17
(2,220)	1:A:34:ASN:H	1:A:33:ILE:HA	4	0.17
(2,220)	1:A:34:ASN:H	1:A:33:ILE:HA	5	0.17
(2,220)	1:A:34:ASN:H	1:A:33:ILE:HA	8	0.17
(2,220)	1:A:34:ASN:H	1:A:33:ILE:HA	10	0.17
(2,207)	1:A:32:PHE:H	1:A:31:LEU:HA	4	0.17
(2,207)	1:A:32:PHE:H	1:A:31:LEU:HA	12	0.17
(2,207)	1:A:32:PHE:H	1:A:31:LEU:HA	14	0.17
(2,207)	1:A:32:PHE:H	1:A:31:LEU:HA	15	0.17
(2,207)	1:A:32:PHE:H	1:A:31:LEU:HA	16	0.17
(2,2045)	1:E:50:MET:H	1:E:50:MET:HB3	5	0.17
(2,2045)	1:E:50:MET:H	1:E:50:MET:HB3	8	0.17
(2,2045)	1:E:50:MET:H	1:E:50:MET:HB3	14	0.17
(2,2045)	1:E:50:MET:H	1:E:50:MET:HB3	18	0.17
(2,2025)	1:E:48:ILE:H	1:E:45:ILE:HA	12	0.17
(2,2017)	1:E:47:ILE:H	1:E:47:ILE:HD11	19	0.17
(2,2017)	1:E:47:ILE:H	1:E:47:ILE:HD12	19	0.17
(2,2017)	1:E:47:ILE:H	1:E:47:ILE:HD13	19	0.17
(2,1980)	1:E:44:LEU:H	1:E:41:CYS:HB2	15	0.17
(2,1980)	1:E:44:LEU:H	1:E:41:CYS:HB3	15	0.17
(2,1958)	1:E:42:LEU:H	1:E:39:LEU:HA	9	0.17
(2,1943)	1:E:39:LEU:H	1:E:35:PHE:HD1	20	0.17
(2,1943)	1:E:39:LEU:H	1:E:35:PHE:HD2	20	0.17
(2,1906)	1:E:37:LEU:H	1:E:34:ASN:HA	8	0.17
(2,1898)	1:E:36:CYS:H	1:E:35:PHE:HA	6	0.17
(2,1898)	1:E:36:CYS:H	1:E:35:PHE:HA	12	0.17
(2,1898)	1:E:36:CYS:H	1:E:35:PHE:HA	13	0.17
(2,1891)	1:E:35:PHE:H	1:E:34:ASN:HA	5	0.17
(2,1891)	1:E:35:PHE:H	1:E:34:ASN:HA	9	0.17
(2,1888)	1:E:35:PHE:H	1:E:33:ILE:HB	14	0.17
(2,1885)	1:E:34:ASN:H	1:E:34:ASN:HB3	12	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1876)	1:E:34:ASN:H	1:E:33:ILE:HA	4	0.17
(2,1876)	1:E:34:ASN:H	1:E:33:ILE:HA	5	0.17
(2,1876)	1:E:34:ASN:H	1:E:33:ILE:HA	8	0.17
(2,1876)	1:E:34:ASN:H	1:E:33:ILE:HA	18	0.17
(2,1863)	1:E:32:PHE:H	1:E:31:LEU:HA	15	0.17
(2,1863)	1:E:32:PHE:H	1:E:31:LEU:HA	16	0.17
(2,1850)	1:E:31:LEU:H	1:E:28:LEU:HA	19	0.17
(2,1780)	1:E:19:GLU:H	1:E:19:GLU:HA	5	0.17
(2,1780)	1:E:19:GLU:H	1:E:19:GLU:HA	11	0.17
(2,1780)	1:E:19:GLU:H	1:E:19:GLU:HA	18	0.17
(2,1754)	1:E:15:ALA:H	1:E:14:ARG:HA	20	0.17
(2,1728)	1:E:12:ILE:H	1:E:9:ARG:HA	9	0.17
(2,1728)	1:E:12:ILE:H	1:E:9:ARG:HA	10	0.17
(2,1663)	1:E:3:LYS:H	1:E:3:LYS:HB3	1	0.17
(2,1663)	1:E:3:LYS:H	1:E:3:LYS:HB3	2	0.17
(2,1663)	1:E:3:LYS:H	1:E:3:LYS:HB3	4	0.17
(2,1663)	1:E:3:LYS:H	1:E:3:LYS:HB3	5	0.17
(2,1663)	1:E:3:LYS:H	1:E:3:LYS:HB3	6	0.17
(2,1663)	1:E:3:LYS:H	1:E:3:LYS:HB3	8	0.17
(2,1663)	1:E:3:LYS:H	1:E:3:LYS:HB3	10	0.17
(2,1663)	1:E:3:LYS:H	1:E:3:LYS:HB3	13	0.17
(2,1663)	1:E:3:LYS:H	1:E:3:LYS:HB3	15	0.17
(2,1650)	1:D:52:LEU:H	1:D:51:LEU:HA	3	0.17
(2,1631)	1:D:50:MET:H	1:D:50:MET:HB3	5	0.17
(2,1631)	1:D:50:MET:H	1:D:50:MET:HB3	8	0.17
(2,1616)	1:D:49:VAL:H	1:D:48:ILE:HA	10	0.17
(2,1578)	1:D:45:ILE:H	1:D:42:LEU:HA	11	0.17
(2,157)	1:A:27:ASN:H	1:A:25:ARG:H	13	0.17
(2,1492)	1:D:37:LEU:H	1:D:34:ASN:HA	2	0.17
(2,1484)	1:D:36:CYS:H	1:D:35:PHE:HA	7	0.17
(2,1484)	1:D:36:CYS:H	1:D:35:PHE:HA	12	0.17
(2,1484)	1:D:36:CYS:H	1:D:35:PHE:HA	16	0.17
(2,1484)	1:D:36:CYS:H	1:D:35:PHE:HA	19	0.17
(2,1477)	1:D:35:PHE:H	1:D:34:ASN:HA	7	0.17
(2,1471)	1:D:34:ASN:H	1:D:34:ASN:HB3	12	0.17
(2,1462)	1:D:34:ASN:H	1:D:33:ILE:HA	2	0.17
(2,1462)	1:D:34:ASN:H	1:D:33:ILE:HA	8	0.17
(2,1462)	1:D:34:ASN:H	1:D:33:ILE:HA	10	0.17
(2,1449)	1:D:32:PHE:H	1:D:31:LEU:HA	3	0.17
(2,1449)	1:D:32:PHE:H	1:D:31:LEU:HA	12	0.17
(2,1449)	1:D:32:PHE:H	1:D:31:LEU:HA	15	0.17
(2,1449)	1:D:32:PHE:H	1:D:31:LEU:HA	17	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1449)	1:D:32:PHE:H	1:D:31:LEU:HA	20	0.17
(2,1366)	1:D:19:GLU:H	1:D:19:GLU:HA	11	0.17
(2,1366)	1:D:19:GLU:H	1:D:19:GLU:HA	17	0.17
(2,1366)	1:D:19:GLU:H	1:D:19:GLU:HA	18	0.17
(2,1314)	1:D:12:ILE:H	1:D:9:ARG:HA	10	0.17
(2,1249)	1:D:3:LYS:H	1:D:3:LYS:HB3	1	0.17
(2,1249)	1:D:3:LYS:H	1:D:3:LYS:HB3	2	0.17
(2,1249)	1:D:3:LYS:H	1:D:3:LYS:HB3	10	0.17
(2,1249)	1:D:3:LYS:H	1:D:3:LYS:HB3	13	0.17
(2,1249)	1:D:3:LYS:H	1:D:3:LYS:HB3	20	0.17
(2,124)	1:A:19:GLU:H	1:A:19:GLU:HA	11	0.17
(2,124)	1:A:19:GLU:H	1:A:19:GLU:HA	17	0.17
(2,124)	1:A:19:GLU:H	1:A:19:GLU:HA	18	0.17
(2,1236)	1:C:52:LEU:H	1:C:51:LEU:HA	3	0.17
(2,1197)	1:C:48:ILE:H	1:C:45:ILE:HA	12	0.17
(2,1115)	1:C:39:LEU:H	1:C:35:PHE:HD1	20	0.17
(2,1115)	1:C:39:LEU:H	1:C:35:PHE:HD2	20	0.17
(2,1113)	1:C:40:ILE:H	1:C:37:LEU:HA	17	0.17
(2,1070)	1:C:36:CYS:H	1:C:35:PHE:HA	16	0.17
(2,1070)	1:C:36:CYS:H	1:C:35:PHE:HA	17	0.17
(2,1070)	1:C:36:CYS:H	1:C:35:PHE:HA	18	0.17
(2,1063)	1:C:35:PHE:H	1:C:34:ASN:HA	3	0.17
(2,1063)	1:C:35:PHE:H	1:C:34:ASN:HA	5	0.17
(2,1063)	1:C:35:PHE:H	1:C:34:ASN:HA	8	0.17
(2,1057)	1:C:34:ASN:H	1:C:34:ASN:HB3	12	0.17
(2,1048)	1:C:34:ASN:H	1:C:33:ILE:HA	5	0.17
(2,1048)	1:C:34:ASN:H	1:C:33:ILE:HA	8	0.17
(2,1048)	1:C:34:ASN:H	1:C:33:ILE:HA	10	0.17
(2,1048)	1:C:34:ASN:H	1:C:33:ILE:HA	18	0.17
(2,1035)	1:C:32:PHE:H	1:C:31:LEU:HA	4	0.17
(2,1035)	1:C:32:PHE:H	1:C:31:LEU:HA	12	0.17
(2,1035)	1:C:32:PHE:H	1:C:31:LEU:HA	15	0.17
(2,98)	1:A:15:ALA:H	1:A:14:ARG:HA	20	0.16
(2,956)	1:C:20:MET:H	1:C:19:GLU:HA	3	0.16
(2,952)	1:C:19:GLU:H	1:C:19:GLU:HA	2	0.16
(2,952)	1:C:19:GLU:H	1:C:19:GLU:HA	3	0.16
(2,952)	1:C:19:GLU:H	1:C:19:GLU:HA	6	0.16
(2,952)	1:C:19:GLU:H	1:C:19:GLU:HA	17	0.16
(2,943)	1:C:18:ILE:H	1:C:18:ILE:HB	5	0.16
(2,900)	1:C:12:ILE:H	1:C:9:ARG:HA	16	0.16
(2,851)	1:C:6:TYR:H	1:C:5:GLN:HA	1	0.16
(2,851)	1:C:6:TYR:H	1:C:5:GLN:HA	3	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,851)	1:C:6:TYR:H	1:C:5:GLN:HA	13	0.16
(2,851)	1:C:6:TYR:H	1:C:5:GLN:HA	20	0.16
(2,825)	1:B:52:LEU:H	1:B:52:LEU:HA	19	0.16
(2,822)	1:B:52:LEU:H	1:B:51:LEU:HA	5	0.16
(2,803)	1:B:50:MET:H	1:B:50:MET:HB3	3	0.16
(2,803)	1:B:50:MET:H	1:B:50:MET:HB3	9	0.16
(2,788)	1:B:49:VAL:H	1:B:48:ILE:HA	2	0.16
(2,788)	1:B:49:VAL:H	1:B:48:ILE:HA	3	0.16
(2,788)	1:B:49:VAL:H	1:B:48:ILE:HA	4	0.16
(2,788)	1:B:49:VAL:H	1:B:48:ILE:HA	8	0.16
(2,788)	1:B:49:VAL:H	1:B:48:ILE:HA	10	0.16
(2,788)	1:B:49:VAL:H	1:B:48:ILE:HA	13	0.16
(2,788)	1:B:49:VAL:H	1:B:48:ILE:HA	14	0.16
(2,788)	1:B:49:VAL:H	1:B:48:ILE:HA	20	0.16
(2,738)	1:B:44:LEU:H	1:B:41:CYS:HB2	11	0.16
(2,738)	1:B:44:LEU:H	1:B:41:CYS:HB3	11	0.16
(2,716)	1:B:42:LEU:H	1:B:39:LEU:HA	4	0.16
(2,716)	1:B:42:LEU:H	1:B:39:LEU:HA	10	0.16
(2,716)	1:B:42:LEU:H	1:B:39:LEU:HA	14	0.16
(2,701)	1:B:39:LEU:H	1:B:35:PHE:HD1	20	0.16
(2,701)	1:B:39:LEU:H	1:B:35:PHE:HD2	20	0.16
(2,7)	1:A:3:LYS:H	1:A:3:LYS:HB3	12	0.16
(2,656)	1:B:36:CYS:H	1:B:35:PHE:HA	1	0.16
(2,656)	1:B:36:CYS:H	1:B:35:PHE:HA	12	0.16
(2,656)	1:B:36:CYS:H	1:B:35:PHE:HA	15	0.16
(2,656)	1:B:36:CYS:H	1:B:35:PHE:HA	18	0.16
(2,656)	1:B:36:CYS:H	1:B:35:PHE:HA	20	0.16
(2,649)	1:B:35:PHE:H	1:B:34:ASN:HA	2	0.16
(2,649)	1:B:35:PHE:H	1:B:34:ASN:HA	3	0.16
(2,649)	1:B:35:PHE:H	1:B:34:ASN:HA	7	0.16
(2,649)	1:B:35:PHE:H	1:B:34:ASN:HA	8	0.16
(2,649)	1:B:35:PHE:H	1:B:34:ASN:HA	9	0.16
(2,649)	1:B:35:PHE:H	1:B:34:ASN:HA	18	0.16
(2,643)	1:B:34:ASN:H	1:B:34:ASN:HB3	19	0.16
(2,640)	1:B:27:ASN:HD22	1:B:27:ASN:HB3	16	0.16
(2,634)	1:B:34:ASN:H	1:B:33:ILE:HA	7	0.16
(2,621)	1:B:32:PHE:H	1:B:31:LEU:HA	3	0.16
(2,621)	1:B:32:PHE:H	1:B:31:LEU:HA	4	0.16
(2,621)	1:B:32:PHE:H	1:B:31:LEU:HA	5	0.16
(2,621)	1:B:32:PHE:H	1:B:31:LEU:HA	8	0.16
(2,621)	1:B:32:PHE:H	1:B:31:LEU:HA	9	0.16
(2,621)	1:B:32:PHE:H	1:B:31:LEU:HA	11	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,621)	1:B:32:PHE:H	1:B:31:LEU:HA	14	0.16
(2,621)	1:B:32:PHE:H	1:B:31:LEU:HA	18	0.16
(2,621)	1:B:32:PHE:H	1:B:31:LEU:HA	20	0.16
(2,538)	1:B:19:GLU:H	1:B:19:GLU:HA	6	0.16
(2,535)	1:B:19:GLU:H	1:B:18:ILE:HD11	12	0.16
(2,535)	1:B:19:GLU:H	1:B:18:ILE:HD12	12	0.16
(2,535)	1:B:19:GLU:H	1:B:18:ILE:HD13	12	0.16
(2,512)	1:B:15:ALA:H	1:B:14:ARG:HA	20	0.16
(2,486)	1:B:12:ILE:H	1:B:9:ARG:HA	17	0.16
(2,485)	1:B:12:ILE:H	1:B:11:ALA:HA	20	0.16
(2,445)	1:B:7:LEU:H	1:B:6:TYR:HA	6	0.16
(2,437)	1:B:6:TYR:H	1:B:5:GLN:HA	3	0.16
(2,437)	1:B:6:TYR:H	1:B:5:GLN:HA	13	0.16
(2,421)	1:B:3:LYS:H	1:B:3:LYS:HB3	12	0.16
(2,411)	1:A:52:LEU:H	1:A:52:LEU:HA	7	0.16
(2,411)	1:A:52:LEU:H	1:A:52:LEU:HA	19	0.16
(2,408)	1:A:52:LEU:H	1:A:51:LEU:HA	8	0.16
(2,408)	1:A:52:LEU:H	1:A:51:LEU:HA	16	0.16
(2,389)	1:A:50:MET:H	1:A:50:MET:HB3	17	0.16
(2,374)	1:A:49:VAL:H	1:A:48:ILE:HA	2	0.16
(2,374)	1:A:49:VAL:H	1:A:48:ILE:HA	3	0.16
(2,374)	1:A:49:VAL:H	1:A:48:ILE:HA	4	0.16
(2,374)	1:A:49:VAL:H	1:A:48:ILE:HA	6	0.16
(2,374)	1:A:49:VAL:H	1:A:48:ILE:HA	8	0.16
(2,374)	1:A:49:VAL:H	1:A:48:ILE:HA	10	0.16
(2,374)	1:A:49:VAL:H	1:A:48:ILE:HA	13	0.16
(2,374)	1:A:49:VAL:H	1:A:48:ILE:HA	15	0.16
(2,374)	1:A:49:VAL:H	1:A:48:ILE:HA	17	0.16
(2,374)	1:A:49:VAL:H	1:A:48:ILE:HA	20	0.16
(2,361)	1:A:47:ILE:H	1:A:47:ILE:HD11	10	0.16
(2,361)	1:A:47:ILE:H	1:A:47:ILE:HD12	10	0.16
(2,361)	1:A:47:ILE:H	1:A:47:ILE:HD13	10	0.16
(2,31)	1:A:7:LEU:H	1:A:6:TYR:HA	6	0.16
(2,31)	1:A:7:LEU:H	1:A:6:TYR:HA	20	0.16
(2,302)	1:A:42:LEU:H	1:A:39:LEU:HA	18	0.16
(2,250)	1:A:37:LEU:H	1:A:34:ASN:HA	18	0.16
(2,242)	1:A:36:CYS:H	1:A:35:PHE:HA	1	0.16
(2,235)	1:A:35:PHE:H	1:A:34:ASN:HA	5	0.16
(2,235)	1:A:35:PHE:H	1:A:34:ASN:HA	9	0.16
(2,235)	1:A:35:PHE:H	1:A:34:ASN:HA	10	0.16
(2,23)	1:A:6:TYR:H	1:A:5:GLN:HA	3	0.16
(2,23)	1:A:6:TYR:H	1:A:5:GLN:HA	13	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,23)	1:A:6:TYR:H	1:A:5:GLN:HA	20	0.16
(2,226)	1:A:27:ASN:HD22	1:A:27:ASN:HB3	9	0.16
(2,226)	1:A:27:ASN:HD22	1:A:27:ASN:HB3	13	0.16
(2,220)	1:A:34:ASN:H	1:A:33:ILE:HA	2	0.16
(2,220)	1:A:34:ASN:H	1:A:33:ILE:HA	7	0.16
(2,220)	1:A:34:ASN:H	1:A:33:ILE:HA	18	0.16
(2,207)	1:A:32:PHE:H	1:A:31:LEU:HA	1	0.16
(2,207)	1:A:32:PHE:H	1:A:31:LEU:HA	3	0.16
(2,207)	1:A:32:PHE:H	1:A:31:LEU:HA	5	0.16
(2,207)	1:A:32:PHE:H	1:A:31:LEU:HA	11	0.16
(2,207)	1:A:32:PHE:H	1:A:31:LEU:HA	17	0.16
(2,207)	1:A:32:PHE:H	1:A:31:LEU:HA	18	0.16
(2,207)	1:A:32:PHE:H	1:A:31:LEU:HA	19	0.16
(2,207)	1:A:32:PHE:H	1:A:31:LEU:HA	20	0.16
(2,2067)	1:E:52:LEU:H	1:E:52:LEU:HA	7	0.16
(2,2067)	1:E:52:LEU:H	1:E:52:LEU:HA	19	0.16
(2,2045)	1:E:50:MET:H	1:E:50:MET:HB3	1	0.16
(2,2045)	1:E:50:MET:H	1:E:50:MET:HB3	3	0.16
(2,2045)	1:E:50:MET:H	1:E:50:MET:HB3	9	0.16
(2,2045)	1:E:50:MET:H	1:E:50:MET:HB3	17	0.16
(2,2030)	1:E:49:VAL:H	1:E:48:ILE:HA	1	0.16
(2,2030)	1:E:49:VAL:H	1:E:48:ILE:HA	2	0.16
(2,2030)	1:E:49:VAL:H	1:E:48:ILE:HA	3	0.16
(2,2030)	1:E:49:VAL:H	1:E:48:ILE:HA	6	0.16
(2,2030)	1:E:49:VAL:H	1:E:48:ILE:HA	8	0.16
(2,2030)	1:E:49:VAL:H	1:E:48:ILE:HA	10	0.16
(2,2030)	1:E:49:VAL:H	1:E:48:ILE:HA	11	0.16
(2,2030)	1:E:49:VAL:H	1:E:48:ILE:HA	13	0.16
(2,2030)	1:E:49:VAL:H	1:E:48:ILE:HA	14	0.16
(2,2030)	1:E:49:VAL:H	1:E:48:ILE:HA	15	0.16
(2,2030)	1:E:49:VAL:H	1:E:48:ILE:HA	20	0.16
(2,2017)	1:E:47:ILE:H	1:E:47:ILE:HD11	6	0.16
(2,2017)	1:E:47:ILE:H	1:E:47:ILE:HD12	6	0.16
(2,2017)	1:E:47:ILE:H	1:E:47:ILE:HD13	6	0.16
(2,1958)	1:E:42:LEU:H	1:E:39:LEU:HA	16	0.16
(2,1946)	1:E:41:CYS:H	1:E:38:ILE:HA	20	0.16
(2,1941)	1:E:40:ILE:H	1:E:37:LEU:HA	14	0.16
(2,1926)	1:E:39:LEU:H	1:E:36:CYS:HA	16	0.16
(2,1898)	1:E:36:CYS:H	1:E:35:PHE:HA	1	0.16
(2,1898)	1:E:36:CYS:H	1:E:35:PHE:HA	14	0.16
(2,1898)	1:E:36:CYS:H	1:E:35:PHE:HA	15	0.16
(2,1898)	1:E:36:CYS:H	1:E:35:PHE:HA	17	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1891)	1:E:35:PHE:H	1:E:34:ASN:HA	2	0.16
(2,1891)	1:E:35:PHE:H	1:E:34:ASN:HA	7	0.16
(2,1891)	1:E:35:PHE:H	1:E:34:ASN:HA	10	0.16
(2,1891)	1:E:35:PHE:H	1:E:34:ASN:HA	14	0.16
(2,1888)	1:E:35:PHE:H	1:E:33:ILE:HB	3	0.16
(2,1885)	1:E:34:ASN:H	1:E:34:ASN:HB3	19	0.16
(2,1882)	1:E:27:ASN:HD22	1:E:27:ASN:HB3	13	0.16
(2,1882)	1:E:27:ASN:HD22	1:E:27:ASN:HB3	16	0.16
(2,1876)	1:E:34:ASN:H	1:E:33:ILE:HA	2	0.16
(2,1876)	1:E:34:ASN:H	1:E:33:ILE:HA	10	0.16
(2,1876)	1:E:34:ASN:H	1:E:33:ILE:HA	19	0.16
(2,1863)	1:E:32:PHE:H	1:E:31:LEU:HA	1	0.16
(2,1863)	1:E:32:PHE:H	1:E:31:LEU:HA	3	0.16
(2,1863)	1:E:32:PHE:H	1:E:31:LEU:HA	4	0.16
(2,1863)	1:E:32:PHE:H	1:E:31:LEU:HA	5	0.16
(2,1863)	1:E:32:PHE:H	1:E:31:LEU:HA	8	0.16
(2,1863)	1:E:32:PHE:H	1:E:31:LEU:HA	9	0.16
(2,1863)	1:E:32:PHE:H	1:E:31:LEU:HA	11	0.16
(2,1863)	1:E:32:PHE:H	1:E:31:LEU:HA	12	0.16
(2,1863)	1:E:32:PHE:H	1:E:31:LEU:HA	14	0.16
(2,1863)	1:E:32:PHE:H	1:E:31:LEU:HA	17	0.16
(2,1863)	1:E:32:PHE:H	1:E:31:LEU:HA	18	0.16
(2,1863)	1:E:32:PHE:H	1:E:31:LEU:HA	20	0.16
(2,1784)	1:E:20:MET:H	1:E:19:GLU:HA	3	0.16
(2,1780)	1:E:19:GLU:H	1:E:19:GLU:HA	2	0.16
(2,1780)	1:E:19:GLU:H	1:E:19:GLU:HA	3	0.16
(2,1780)	1:E:19:GLU:H	1:E:19:GLU:HA	6	0.16
(2,1780)	1:E:19:GLU:H	1:E:19:GLU:HA	17	0.16
(2,1777)	1:E:19:GLU:H	1:E:18:ILE:HD11	12	0.16
(2,1777)	1:E:19:GLU:H	1:E:18:ILE:HD12	12	0.16
(2,1777)	1:E:19:GLU:H	1:E:18:ILE:HD13	12	0.16
(2,1771)	1:E:18:ILE:H	1:E:18:ILE:HB	5	0.16
(2,1728)	1:E:12:ILE:H	1:E:9:ARG:HA	17	0.16
(2,1687)	1:E:7:LEU:H	1:E:6:TYR:HA	20	0.16
(2,1679)	1:E:6:TYR:H	1:E:5:GLN:HA	3	0.16
(2,1679)	1:E:6:TYR:H	1:E:5:GLN:HA	13	0.16
(2,1679)	1:E:6:TYR:H	1:E:5:GLN:HA	20	0.16
(2,1663)	1:E:3:LYS:H	1:E:3:LYS:HB3	12	0.16
(2,1653)	1:D:52:LEU:H	1:D:52:LEU:HA	19	0.16
(2,1650)	1:D:52:LEU:H	1:D:51:LEU:HA	8	0.16
(2,1631)	1:D:50:MET:H	1:D:50:MET:HB3	3	0.16
(2,1631)	1:D:50:MET:H	1:D:50:MET:HB3	17	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1616)	1:D:49:VAL:H	1:D:48:ILE:HA	1	0.16
(2,1616)	1:D:49:VAL:H	1:D:48:ILE:HA	2	0.16
(2,1616)	1:D:49:VAL:H	1:D:48:ILE:HA	3	0.16
(2,1616)	1:D:49:VAL:H	1:D:48:ILE:HA	8	0.16
(2,1616)	1:D:49:VAL:H	1:D:48:ILE:HA	13	0.16
(2,1616)	1:D:49:VAL:H	1:D:48:ILE:HA	15	0.16
(2,1616)	1:D:49:VAL:H	1:D:48:ILE:HA	20	0.16
(2,1611)	1:D:48:ILE:H	1:D:45:ILE:HA	12	0.16
(2,1544)	1:D:42:LEU:H	1:D:39:LEU:HA	2	0.16
(2,1544)	1:D:42:LEU:H	1:D:39:LEU:HA	10	0.16
(2,1544)	1:D:42:LEU:H	1:D:39:LEU:HA	14	0.16
(2,1492)	1:D:37:LEU:H	1:D:34:ASN:HA	18	0.16
(2,1484)	1:D:36:CYS:H	1:D:35:PHE:HA	6	0.16
(2,1484)	1:D:36:CYS:H	1:D:35:PHE:HA	14	0.16
(2,1484)	1:D:36:CYS:H	1:D:35:PHE:HA	15	0.16
(2,1484)	1:D:36:CYS:H	1:D:35:PHE:HA	18	0.16
(2,1484)	1:D:36:CYS:H	1:D:35:PHE:HA	20	0.16
(2,1477)	1:D:35:PHE:H	1:D:34:ASN:HA	2	0.16
(2,1477)	1:D:35:PHE:H	1:D:34:ASN:HA	3	0.16
(2,1477)	1:D:35:PHE:H	1:D:34:ASN:HA	5	0.16
(2,1477)	1:D:35:PHE:H	1:D:34:ASN:HA	9	0.16
(2,1477)	1:D:35:PHE:H	1:D:34:ASN:HA	14	0.16
(2,1477)	1:D:35:PHE:H	1:D:34:ASN:HA	18	0.16
(2,1474)	1:D:35:PHE:H	1:D:33:ILE:HB	3	0.16
(2,1471)	1:D:34:ASN:H	1:D:34:ASN:HB3	19	0.16
(2,1468)	1:D:27:ASN:HD22	1:D:27:ASN:HB3	13	0.16
(2,1462)	1:D:34:ASN:H	1:D:33:ILE:HA	18	0.16
(2,1462)	1:D:34:ASN:H	1:D:33:ILE:HA	19	0.16
(2,1449)	1:D:32:PHE:H	1:D:31:LEU:HA	1	0.16
(2,1449)	1:D:32:PHE:H	1:D:31:LEU:HA	4	0.16
(2,1449)	1:D:32:PHE:H	1:D:31:LEU:HA	5	0.16
(2,1449)	1:D:32:PHE:H	1:D:31:LEU:HA	6	0.16
(2,1449)	1:D:32:PHE:H	1:D:31:LEU:HA	8	0.16
(2,1449)	1:D:32:PHE:H	1:D:31:LEU:HA	9	0.16
(2,1449)	1:D:32:PHE:H	1:D:31:LEU:HA	11	0.16
(2,1449)	1:D:32:PHE:H	1:D:31:LEU:HA	14	0.16
(2,1449)	1:D:32:PHE:H	1:D:31:LEU:HA	16	0.16
(2,1449)	1:D:32:PHE:H	1:D:31:LEU:HA	18	0.16
(2,1449)	1:D:32:PHE:H	1:D:31:LEU:HA	19	0.16
(2,1399)	1:D:27:ASN:H	1:D:25:ARG:H	13	0.16
(2,1366)	1:D:19:GLU:H	1:D:19:GLU:HA	2	0.16
(2,1366)	1:D:19:GLU:H	1:D:19:GLU:HA	3	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1366)	1:D:19:GLU:H	1:D:19:GLU:HA	5	0.16
(2,1366)	1:D:19:GLU:H	1:D:19:GLU:HA	6	0.16
(2,1363)	1:D:19:GLU:H	1:D:18:ILE:HD11	7	0.16
(2,1363)	1:D:19:GLU:H	1:D:18:ILE:HD12	7	0.16
(2,1363)	1:D:19:GLU:H	1:D:18:ILE:HD13	7	0.16
(2,1357)	1:D:18:ILE:H	1:D:18:ILE:HB	5	0.16
(2,1340)	1:D:15:ALA:H	1:D:14:ARG:HA	20	0.16
(2,1273)	1:D:7:LEU:H	1:D:6:TYR:HA	6	0.16
(2,1273)	1:D:7:LEU:H	1:D:6:TYR:HA	16	0.16
(2,1273)	1:D:7:LEU:H	1:D:6:TYR:HA	20	0.16
(2,1265)	1:D:6:TYR:H	1:D:5:GLN:HA	3	0.16
(2,1265)	1:D:6:TYR:H	1:D:5:GLN:HA	8	0.16
(2,1265)	1:D:6:TYR:H	1:D:5:GLN:HA	13	0.16
(2,1265)	1:D:6:TYR:H	1:D:5:GLN:HA	20	0.16
(2,124)	1:A:19:GLU:H	1:A:19:GLU:HA	2	0.16
(2,124)	1:A:19:GLU:H	1:A:19:GLU:HA	3	0.16
(2,124)	1:A:19:GLU:H	1:A:19:GLU:HA	5	0.16
(2,124)	1:A:19:GLU:H	1:A:19:GLU:HA	6	0.16
(2,124)	1:A:19:GLU:H	1:A:19:GLU:HA	10	0.16
(2,1239)	1:C:52:LEU:H	1:C:52:LEU:HA	19	0.16
(2,1217)	1:C:50:MET:H	1:C:50:MET:HB3	3	0.16
(2,1217)	1:C:50:MET:H	1:C:50:MET:HB3	5	0.16
(2,1217)	1:C:50:MET:H	1:C:50:MET:HB3	9	0.16
(2,1217)	1:C:50:MET:H	1:C:50:MET:HB3	14	0.16
(2,121)	1:A:19:GLU:H	1:A:18:ILE:HD11	12	0.16
(2,121)	1:A:19:GLU:H	1:A:18:ILE:HD12	12	0.16
(2,121)	1:A:19:GLU:H	1:A:18:ILE:HD13	12	0.16
(2,1202)	1:C:49:VAL:H	1:C:48:ILE:HA	1	0.16
(2,1202)	1:C:49:VAL:H	1:C:48:ILE:HA	2	0.16
(2,1202)	1:C:49:VAL:H	1:C:48:ILE:HA	3	0.16
(2,1202)	1:C:49:VAL:H	1:C:48:ILE:HA	4	0.16
(2,1202)	1:C:49:VAL:H	1:C:48:ILE:HA	10	0.16
(2,1202)	1:C:49:VAL:H	1:C:48:ILE:HA	13	0.16
(2,1202)	1:C:49:VAL:H	1:C:48:ILE:HA	14	0.16
(2,1202)	1:C:49:VAL:H	1:C:48:ILE:HA	15	0.16
(2,1202)	1:C:49:VAL:H	1:C:48:ILE:HA	20	0.16
(2,1164)	1:C:45:ILE:H	1:C:42:LEU:HA	8	0.16
(2,115)	1:A:18:ILE:H	1:A:18:ILE:HB	5	0.16
(2,1118)	1:C:41:CYS:H	1:C:38:ILE:HA	20	0.16
(2,1078)	1:C:37:LEU:H	1:C:34:ASN:HA	18	0.16
(2,1070)	1:C:36:CYS:H	1:C:35:PHE:HA	11	0.16
(2,1070)	1:C:36:CYS:H	1:C:35:PHE:HA	12	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1070)	1:C:36:CYS:H	1:C:35:PHE:HA	15	0.16
(2,1063)	1:C:35:PHE:H	1:C:34:ASN:HA	4	0.16
(2,1063)	1:C:35:PHE:H	1:C:34:ASN:HA	7	0.16
(2,1063)	1:C:35:PHE:H	1:C:34:ASN:HA	18	0.16
(2,1060)	1:C:35:PHE:H	1:C:33:ILE:HB	3	0.16
(2,1054)	1:C:27:ASN:HD22	1:C:27:ASN:HB3	13	0.16
(2,1048)	1:C:34:ASN:H	1:C:33:ILE:HA	2	0.16
(2,1035)	1:C:32:PHE:H	1:C:31:LEU:HA	3	0.16
(2,1035)	1:C:32:PHE:H	1:C:31:LEU:HA	8	0.16
(2,1035)	1:C:32:PHE:H	1:C:31:LEU:HA	9	0.16
(2,1035)	1:C:32:PHE:H	1:C:31:LEU:HA	11	0.16
(2,1035)	1:C:32:PHE:H	1:C:31:LEU:HA	14	0.16
(2,1035)	1:C:32:PHE:H	1:C:31:LEU:HA	16	0.16
(2,1035)	1:C:32:PHE:H	1:C:31:LEU:HA	17	0.16
(2,1035)	1:C:32:PHE:H	1:C:31:LEU:HA	18	0.16
(2,1035)	1:C:32:PHE:H	1:C:31:LEU:HA	19	0.16
(2,1035)	1:C:32:PHE:H	1:C:31:LEU:HA	20	0.16
(2,1022)	1:C:31:LEU:H	1:C:28:LEU:HA	19	0.16
(2,985)	1:C:27:ASN:H	1:C:25:ARG:H	13	0.15
(2,98)	1:A:15:ALA:H	1:A:14:ARG:HA	4	0.15
(2,952)	1:C:19:GLU:H	1:C:19:GLU:HA	8	0.15
(2,952)	1:C:19:GLU:H	1:C:19:GLU:HA	10	0.15
(2,949)	1:C:19:GLU:H	1:C:18:ILE:HD11	7	0.15
(2,949)	1:C:19:GLU:H	1:C:18:ILE:HD12	7	0.15
(2,949)	1:C:19:GLU:H	1:C:18:ILE:HD13	7	0.15
(2,949)	1:C:19:GLU:H	1:C:18:ILE:HD11	12	0.15
(2,949)	1:C:19:GLU:H	1:C:18:ILE:HD12	12	0.15
(2,949)	1:C:19:GLU:H	1:C:18:ILE:HD13	12	0.15
(2,938)	1:C:17:THR:H	1:C:17:THR:HA	1	0.15
(2,938)	1:C:17:THR:H	1:C:17:THR:HA	3	0.15
(2,931)	1:C:16:SEP:H	1:C:15:ALA:HA	11	0.15
(2,900)	1:C:12:ILE:H	1:C:9:ARG:HA	5	0.15
(2,900)	1:C:12:ILE:H	1:C:9:ARG:HA	9	0.15
(2,899)	1:C:12:ILE:H	1:C:11:ALA:HA	1	0.15
(2,899)	1:C:12:ILE:H	1:C:11:ALA:HA	4	0.15
(2,899)	1:C:12:ILE:H	1:C:11:ALA:HA	8	0.15
(2,899)	1:C:12:ILE:H	1:C:11:ALA:HA	14	0.15
(2,899)	1:C:12:ILE:H	1:C:11:ALA:HA	16	0.15
(2,899)	1:C:12:ILE:H	1:C:11:ALA:HA	20	0.15
(2,859)	1:C:7:LEU:H	1:C:6:TYR:HA	1	0.15
(2,859)	1:C:7:LEU:H	1:C:6:TYR:HA	3	0.15
(2,859)	1:C:7:LEU:H	1:C:6:TYR:HA	4	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,859)	1:C:7:LEU:H	1:C:6:TYR:HA	5	0.15
(2,859)	1:C:7:LEU:H	1:C:6:TYR:HA	6	0.15
(2,859)	1:C:7:LEU:H	1:C:6:TYR:HA	7	0.15
(2,859)	1:C:7:LEU:H	1:C:6:TYR:HA	8	0.15
(2,859)	1:C:7:LEU:H	1:C:6:TYR:HA	9	0.15
(2,859)	1:C:7:LEU:H	1:C:6:TYR:HA	13	0.15
(2,859)	1:C:7:LEU:H	1:C:6:TYR:HA	16	0.15
(2,859)	1:C:7:LEU:H	1:C:6:TYR:HA	17	0.15
(2,859)	1:C:7:LEU:H	1:C:6:TYR:HA	20	0.15
(2,851)	1:C:6:TYR:H	1:C:5:GLN:HA	4	0.15
(2,851)	1:C:6:TYR:H	1:C:5:GLN:HA	5	0.15
(2,851)	1:C:6:TYR:H	1:C:5:GLN:HA	6	0.15
(2,851)	1:C:6:TYR:H	1:C:5:GLN:HA	8	0.15
(2,851)	1:C:6:TYR:H	1:C:5:GLN:HA	9	0.15
(2,851)	1:C:6:TYR:H	1:C:5:GLN:HA	10	0.15
(2,851)	1:C:6:TYR:H	1:C:5:GLN:HA	11	0.15
(2,851)	1:C:6:TYR:H	1:C:5:GLN:HA	16	0.15
(2,851)	1:C:6:TYR:H	1:C:5:GLN:HA	17	0.15
(2,835)	1:C:3:LYS:H	1:C:3:LYS:HB3	12	0.15
(2,825)	1:B:52:LEU:H	1:B:52:LEU:HA	7	0.15
(2,822)	1:B:52:LEU:H	1:B:51:LEU:HA	17	0.15
(2,822)	1:B:52:LEU:H	1:B:51:LEU:HA	18	0.15
(2,803)	1:B:50:MET:H	1:B:50:MET:HB3	6	0.15
(2,803)	1:B:50:MET:H	1:B:50:MET:HB3	10	0.15
(2,803)	1:B:50:MET:H	1:B:50:MET:HB3	15	0.15
(2,803)	1:B:50:MET:H	1:B:50:MET:HB3	16	0.15
(2,788)	1:B:49:VAL:H	1:B:48:ILE:HA	1	0.15
(2,788)	1:B:49:VAL:H	1:B:48:ILE:HA	6	0.15
(2,788)	1:B:49:VAL:H	1:B:48:ILE:HA	7	0.15
(2,788)	1:B:49:VAL:H	1:B:48:ILE:HA	9	0.15
(2,788)	1:B:49:VAL:H	1:B:48:ILE:HA	11	0.15
(2,788)	1:B:49:VAL:H	1:B:48:ILE:HA	12	0.15
(2,788)	1:B:49:VAL:H	1:B:48:ILE:HA	15	0.15
(2,788)	1:B:49:VAL:H	1:B:48:ILE:HA	16	0.15
(2,788)	1:B:49:VAL:H	1:B:48:ILE:HA	17	0.15
(2,788)	1:B:49:VAL:H	1:B:48:ILE:HA	19	0.15
(2,71)	1:A:12:ILE:H	1:A:11:ALA:HA	3	0.15
(2,71)	1:A:12:ILE:H	1:A:11:ALA:HA	4	0.15
(2,71)	1:A:12:ILE:H	1:A:11:ALA:HA	20	0.15
(2,664)	1:B:37:LEU:H	1:B:34:ASN:HA	7	0.15
(2,656)	1:B:36:CYS:H	1:B:35:PHE:HA	6	0.15
(2,656)	1:B:36:CYS:H	1:B:35:PHE:HA	9	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,656)	1:B:36:CYS:H	1:B:35:PHE:HA	10	0.15
(2,656)	1:B:36:CYS:H	1:B:35:PHE:HA	11	0.15
(2,656)	1:B:36:CYS:H	1:B:35:PHE:HA	13	0.15
(2,656)	1:B:36:CYS:H	1:B:35:PHE:HA	17	0.15
(2,649)	1:B:35:PHE:H	1:B:34:ASN:HA	1	0.15
(2,649)	1:B:35:PHE:H	1:B:34:ASN:HA	6	0.15
(2,649)	1:B:35:PHE:H	1:B:34:ASN:HA	10	0.15
(2,649)	1:B:35:PHE:H	1:B:34:ASN:HA	11	0.15
(2,649)	1:B:35:PHE:H	1:B:34:ASN:HA	14	0.15
(2,649)	1:B:35:PHE:H	1:B:34:ASN:HA	19	0.15
(2,640)	1:B:27:ASN:HD22	1:B:27:ASN:HB3	9	0.15
(2,640)	1:B:27:ASN:HD22	1:B:27:ASN:HB3	11	0.15
(2,640)	1:B:27:ASN:HD22	1:B:27:ASN:HB3	13	0.15
(2,634)	1:B:34:ASN:H	1:B:33:ILE:HA	19	0.15
(2,621)	1:B:32:PHE:H	1:B:31:LEU:HA	2	0.15
(2,621)	1:B:32:PHE:H	1:B:31:LEU:HA	6	0.15
(2,621)	1:B:32:PHE:H	1:B:31:LEU:HA	13	0.15
(2,621)	1:B:32:PHE:H	1:B:31:LEU:HA	19	0.15
(2,608)	1:B:31:LEU:H	1:B:28:LEU:HA	2	0.15
(2,571)	1:B:27:ASN:H	1:B:25:ARG:H	13	0.15
(2,538)	1:B:19:GLU:H	1:B:19:GLU:HA	1	0.15
(2,538)	1:B:19:GLU:H	1:B:19:GLU:HA	2	0.15
(2,538)	1:B:19:GLU:H	1:B:19:GLU:HA	8	0.15
(2,538)	1:B:19:GLU:H	1:B:19:GLU:HA	10	0.15
(2,535)	1:B:19:GLU:H	1:B:18:ILE:HD11	7	0.15
(2,535)	1:B:19:GLU:H	1:B:18:ILE:HD12	7	0.15
(2,535)	1:B:19:GLU:H	1:B:18:ILE:HD13	7	0.15
(2,529)	1:B:18:ILE:H	1:B:18:ILE:HB	5	0.15
(2,524)	1:B:17:THR:H	1:B:17:THR:HA	1	0.15
(2,517)	1:B:16:SEP:H	1:B:15:ALA:HA	11	0.15
(2,486)	1:B:12:ILE:H	1:B:9:ARG:HA	5	0.15
(2,485)	1:B:12:ILE:H	1:B:11:ALA:HA	4	0.15
(2,485)	1:B:12:ILE:H	1:B:11:ALA:HA	12	0.15
(2,445)	1:B:7:LEU:H	1:B:6:TYR:HA	1	0.15
(2,445)	1:B:7:LEU:H	1:B:6:TYR:HA	3	0.15
(2,445)	1:B:7:LEU:H	1:B:6:TYR:HA	4	0.15
(2,445)	1:B:7:LEU:H	1:B:6:TYR:HA	5	0.15
(2,445)	1:B:7:LEU:H	1:B:6:TYR:HA	7	0.15
(2,445)	1:B:7:LEU:H	1:B:6:TYR:HA	8	0.15
(2,445)	1:B:7:LEU:H	1:B:6:TYR:HA	9	0.15
(2,445)	1:B:7:LEU:H	1:B:6:TYR:HA	10	0.15
(2,445)	1:B:7:LEU:H	1:B:6:TYR:HA	13	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,445)	1:B:7:LEU:H	1:B:6:TYR:HA	16	0.15
(2,445)	1:B:7:LEU:H	1:B:6:TYR:HA	20	0.15
(2,437)	1:B:6:TYR:H	1:B:5:GLN:HA	1	0.15
(2,437)	1:B:6:TYR:H	1:B:5:GLN:HA	4	0.15
(2,437)	1:B:6:TYR:H	1:B:5:GLN:HA	6	0.15
(2,437)	1:B:6:TYR:H	1:B:5:GLN:HA	8	0.15
(2,437)	1:B:6:TYR:H	1:B:5:GLN:HA	9	0.15
(2,437)	1:B:6:TYR:H	1:B:5:GLN:HA	10	0.15
(2,437)	1:B:6:TYR:H	1:B:5:GLN:HA	16	0.15
(2,437)	1:B:6:TYR:H	1:B:5:GLN:HA	17	0.15
(2,437)	1:B:6:TYR:H	1:B:5:GLN:HA	20	0.15
(2,408)	1:A:52:LEU:H	1:A:51:LEU:HA	1	0.15
(2,408)	1:A:52:LEU:H	1:A:51:LEU:HA	5	0.15
(2,408)	1:A:52:LEU:H	1:A:51:LEU:HA	10	0.15
(2,408)	1:A:52:LEU:H	1:A:51:LEU:HA	15	0.15
(2,408)	1:A:52:LEU:H	1:A:51:LEU:HA	17	0.15
(2,389)	1:A:50:MET:H	1:A:50:MET:HB3	6	0.15
(2,389)	1:A:50:MET:H	1:A:50:MET:HB3	9	0.15
(2,389)	1:A:50:MET:H	1:A:50:MET:HB3	10	0.15
(2,389)	1:A:50:MET:H	1:A:50:MET:HB3	15	0.15
(2,374)	1:A:49:VAL:H	1:A:48:ILE:HA	1	0.15
(2,374)	1:A:49:VAL:H	1:A:48:ILE:HA	7	0.15
(2,374)	1:A:49:VAL:H	1:A:48:ILE:HA	9	0.15
(2,374)	1:A:49:VAL:H	1:A:48:ILE:HA	11	0.15
(2,374)	1:A:49:VAL:H	1:A:48:ILE:HA	12	0.15
(2,374)	1:A:49:VAL:H	1:A:48:ILE:HA	16	0.15
(2,374)	1:A:49:VAL:H	1:A:48:ILE:HA	18	0.15
(2,374)	1:A:49:VAL:H	1:A:48:ILE:HA	19	0.15
(2,324)	1:A:44:LEU:H	1:A:41:CYS:HB2	15	0.15
(2,324)	1:A:44:LEU:H	1:A:41:CYS:HB3	15	0.15
(2,31)	1:A:7:LEU:H	1:A:6:TYR:HA	1	0.15
(2,31)	1:A:7:LEU:H	1:A:6:TYR:HA	7	0.15
(2,31)	1:A:7:LEU:H	1:A:6:TYR:HA	8	0.15
(2,31)	1:A:7:LEU:H	1:A:6:TYR:HA	9	0.15
(2,31)	1:A:7:LEU:H	1:A:6:TYR:HA	12	0.15
(2,31)	1:A:7:LEU:H	1:A:6:TYR:HA	13	0.15
(2,31)	1:A:7:LEU:H	1:A:6:TYR:HA	16	0.15
(2,302)	1:A:42:LEU:H	1:A:39:LEU:HA	20	0.15
(2,242)	1:A:36:CYS:H	1:A:35:PHE:HA	13	0.15
(2,242)	1:A:36:CYS:H	1:A:35:PHE:HA	17	0.15
(2,235)	1:A:35:PHE:H	1:A:34:ASN:HA	1	0.15
(2,235)	1:A:35:PHE:H	1:A:34:ASN:HA	3	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,235)	1:A:35:PHE:H	1:A:34:ASN:HA	13	0.15
(2,235)	1:A:35:PHE:H	1:A:34:ASN:HA	14	0.15
(2,235)	1:A:35:PHE:H	1:A:34:ASN:HA	15	0.15
(2,235)	1:A:35:PHE:H	1:A:34:ASN:HA	16	0.15
(2,235)	1:A:35:PHE:H	1:A:34:ASN:HA	19	0.15
(2,232)	1:A:35:PHE:H	1:A:33:ILE:HB	13	0.15
(2,232)	1:A:35:PHE:H	1:A:33:ILE:HB	14	0.15
(2,232)	1:A:35:PHE:H	1:A:33:ILE:HB	17	0.15
(2,23)	1:A:6:TYR:H	1:A:5:GLN:HA	1	0.15
(2,23)	1:A:6:TYR:H	1:A:5:GLN:HA	6	0.15
(2,23)	1:A:6:TYR:H	1:A:5:GLN:HA	8	0.15
(2,23)	1:A:6:TYR:H	1:A:5:GLN:HA	9	0.15
(2,23)	1:A:6:TYR:H	1:A:5:GLN:HA	10	0.15
(2,23)	1:A:6:TYR:H	1:A:5:GLN:HA	11	0.15
(2,23)	1:A:6:TYR:H	1:A:5:GLN:HA	16	0.15
(2,23)	1:A:6:TYR:H	1:A:5:GLN:HA	17	0.15
(2,229)	1:A:34:ASN:H	1:A:34:ASN:HB3	19	0.15
(2,226)	1:A:27:ASN:HD22	1:A:27:ASN:HB3	11	0.15
(2,220)	1:A:34:ASN:H	1:A:33:ILE:HA	19	0.15
(2,207)	1:A:32:PHE:H	1:A:31:LEU:HA	2	0.15
(2,207)	1:A:32:PHE:H	1:A:31:LEU:HA	6	0.15
(2,207)	1:A:32:PHE:H	1:A:31:LEU:HA	8	0.15
(2,207)	1:A:32:PHE:H	1:A:31:LEU:HA	9	0.15
(2,207)	1:A:32:PHE:H	1:A:31:LEU:HA	13	0.15
(2,2064)	1:E:52:LEU:H	1:E:51:LEU:HA	1	0.15
(2,2064)	1:E:52:LEU:H	1:E:51:LEU:HA	5	0.15
(2,2064)	1:E:52:LEU:H	1:E:51:LEU:HA	8	0.15
(2,2064)	1:E:52:LEU:H	1:E:51:LEU:HA	14	0.15
(2,2064)	1:E:52:LEU:H	1:E:51:LEU:HA	15	0.15
(2,2064)	1:E:52:LEU:H	1:E:51:LEU:HA	18	0.15
(2,2045)	1:E:50:MET:H	1:E:50:MET:HB3	6	0.15
(2,2045)	1:E:50:MET:H	1:E:50:MET:HB3	15	0.15
(2,2045)	1:E:50:MET:H	1:E:50:MET:HB3	16	0.15
(2,2030)	1:E:49:VAL:H	1:E:48:ILE:HA	4	0.15
(2,2030)	1:E:49:VAL:H	1:E:48:ILE:HA	7	0.15
(2,2030)	1:E:49:VAL:H	1:E:48:ILE:HA	9	0.15
(2,2030)	1:E:49:VAL:H	1:E:48:ILE:HA	12	0.15
(2,2030)	1:E:49:VAL:H	1:E:48:ILE:HA	16	0.15
(2,2030)	1:E:49:VAL:H	1:E:48:ILE:HA	17	0.15
(2,2030)	1:E:49:VAL:H	1:E:48:ILE:HA	18	0.15
(2,2030)	1:E:49:VAL:H	1:E:48:ILE:HA	19	0.15
(2,2017)	1:E:47:ILE:H	1:E:47:ILE:HD11	15	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2017)	1:E:47:ILE:H	1:E:47:ILE:HD12	15	0.15
(2,2017)	1:E:47:ILE:H	1:E:47:ILE:HD13	15	0.15
(2,2017)	1:E:47:ILE:H	1:E:47:ILE:HD11	17	0.15
(2,2017)	1:E:47:ILE:H	1:E:47:ILE:HD12	17	0.15
(2,2017)	1:E:47:ILE:H	1:E:47:ILE:HD13	17	0.15
(2,1992)	1:E:45:ILE:H	1:E:42:LEU:HA	20	0.15
(2,1958)	1:E:42:LEU:H	1:E:39:LEU:HA	13	0.15
(2,1941)	1:E:40:ILE:H	1:E:37:LEU:HA	6	0.15
(2,1906)	1:E:37:LEU:H	1:E:34:ASN:HA	15	0.15
(2,1898)	1:E:36:CYS:H	1:E:35:PHE:HA	10	0.15
(2,1898)	1:E:36:CYS:H	1:E:35:PHE:HA	19	0.15
(2,1891)	1:E:35:PHE:H	1:E:34:ASN:HA	1	0.15
(2,1891)	1:E:35:PHE:H	1:E:34:ASN:HA	3	0.15
(2,1891)	1:E:35:PHE:H	1:E:34:ASN:HA	15	0.15
(2,1891)	1:E:35:PHE:H	1:E:34:ASN:HA	17	0.15
(2,1891)	1:E:35:PHE:H	1:E:34:ASN:HA	18	0.15
(2,1891)	1:E:35:PHE:H	1:E:34:ASN:HA	19	0.15
(2,1882)	1:E:27:ASN:HD22	1:E:27:ASN:HB3	9	0.15
(2,1882)	1:E:27:ASN:HD22	1:E:27:ASN:HB3	11	0.15
(2,1876)	1:E:34:ASN:H	1:E:33:ILE:HA	7	0.15
(2,1863)	1:E:32:PHE:H	1:E:31:LEU:HA	2	0.15
(2,1863)	1:E:32:PHE:H	1:E:31:LEU:HA	6	0.15
(2,1863)	1:E:32:PHE:H	1:E:31:LEU:HA	13	0.15
(2,1863)	1:E:32:PHE:H	1:E:31:LEU:HA	19	0.15
(2,1780)	1:E:19:GLU:H	1:E:19:GLU:HA	8	0.15
(2,1780)	1:E:19:GLU:H	1:E:19:GLU:HA	10	0.15
(2,1777)	1:E:19:GLU:H	1:E:18:ILE:HD11	7	0.15
(2,1777)	1:E:19:GLU:H	1:E:18:ILE:HD12	7	0.15
(2,1777)	1:E:19:GLU:H	1:E:18:ILE:HD13	7	0.15
(2,1766)	1:E:17:THR:H	1:E:17:THR:HA	1	0.15
(2,1759)	1:E:16:SEP:H	1:E:15:ALA:HA	11	0.15
(2,1754)	1:E:15:ALA:H	1:E:14:ARG:HA	4	0.15
(2,1728)	1:E:12:ILE:H	1:E:9:ARG:HA	5	0.15
(2,1727)	1:E:12:ILE:H	1:E:11:ALA:HA	4	0.15
(2,1727)	1:E:12:ILE:H	1:E:11:ALA:HA	20	0.15
(2,1687)	1:E:7:LEU:H	1:E:6:TYR:HA	3	0.15
(2,1687)	1:E:7:LEU:H	1:E:6:TYR:HA	4	0.15
(2,1687)	1:E:7:LEU:H	1:E:6:TYR:HA	6	0.15
(2,1687)	1:E:7:LEU:H	1:E:6:TYR:HA	8	0.15
(2,1687)	1:E:7:LEU:H	1:E:6:TYR:HA	9	0.15
(2,1687)	1:E:7:LEU:H	1:E:6:TYR:HA	10	0.15
(2,1687)	1:E:7:LEU:H	1:E:6:TYR:HA	13	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1687)	1:E:7:LEU:H	1:E:6:TYR:HA	17	0.15
(2,1687)	1:E:7:LEU:H	1:E:6:TYR:HA	18	0.15
(2,1679)	1:E:6:TYR:H	1:E:5:GLN:HA	1	0.15
(2,1679)	1:E:6:TYR:H	1:E:5:GLN:HA	4	0.15
(2,1679)	1:E:6:TYR:H	1:E:5:GLN:HA	6	0.15
(2,1679)	1:E:6:TYR:H	1:E:5:GLN:HA	8	0.15
(2,1679)	1:E:6:TYR:H	1:E:5:GLN:HA	9	0.15
(2,1679)	1:E:6:TYR:H	1:E:5:GLN:HA	10	0.15
(2,1679)	1:E:6:TYR:H	1:E:5:GLN:HA	16	0.15
(2,1679)	1:E:6:TYR:H	1:E:5:GLN:HA	17	0.15
(2,1653)	1:D:52:LEU:H	1:D:52:LEU:HA	7	0.15
(2,1650)	1:D:52:LEU:H	1:D:51:LEU:HA	5	0.15
(2,1650)	1:D:52:LEU:H	1:D:51:LEU:HA	17	0.15
(2,1631)	1:D:50:MET:H	1:D:50:MET:HB3	6	0.15
(2,1631)	1:D:50:MET:H	1:D:50:MET:HB3	9	0.15
(2,1631)	1:D:50:MET:H	1:D:50:MET:HB3	14	0.15
(2,1631)	1:D:50:MET:H	1:D:50:MET:HB3	16	0.15
(2,1631)	1:D:50:MET:H	1:D:50:MET:HB3	18	0.15
(2,1616)	1:D:49:VAL:H	1:D:48:ILE:HA	4	0.15
(2,1616)	1:D:49:VAL:H	1:D:48:ILE:HA	6	0.15
(2,1616)	1:D:49:VAL:H	1:D:48:ILE:HA	7	0.15
(2,1616)	1:D:49:VAL:H	1:D:48:ILE:HA	9	0.15
(2,1616)	1:D:49:VAL:H	1:D:48:ILE:HA	11	0.15
(2,1616)	1:D:49:VAL:H	1:D:48:ILE:HA	12	0.15
(2,1616)	1:D:49:VAL:H	1:D:48:ILE:HA	14	0.15
(2,1616)	1:D:49:VAL:H	1:D:48:ILE:HA	16	0.15
(2,1616)	1:D:49:VAL:H	1:D:48:ILE:HA	17	0.15
(2,1616)	1:D:49:VAL:H	1:D:48:ILE:HA	18	0.15
(2,1616)	1:D:49:VAL:H	1:D:48:ILE:HA	19	0.15
(2,1603)	1:D:47:ILE:H	1:D:47:ILE:HD11	6	0.15
(2,1603)	1:D:47:ILE:H	1:D:47:ILE:HD12	6	0.15
(2,1603)	1:D:47:ILE:H	1:D:47:ILE:HD13	6	0.15
(2,1527)	1:D:40:ILE:H	1:D:37:LEU:HA	7	0.15
(2,1492)	1:D:37:LEU:H	1:D:34:ASN:HA	15	0.15
(2,1484)	1:D:36:CYS:H	1:D:35:PHE:HA	1	0.15
(2,1484)	1:D:36:CYS:H	1:D:35:PHE:HA	10	0.15
(2,1484)	1:D:36:CYS:H	1:D:35:PHE:HA	13	0.15
(2,1484)	1:D:36:CYS:H	1:D:35:PHE:HA	17	0.15
(2,1477)	1:D:35:PHE:H	1:D:34:ASN:HA	4	0.15
(2,1477)	1:D:35:PHE:H	1:D:34:ASN:HA	6	0.15
(2,1477)	1:D:35:PHE:H	1:D:34:ASN:HA	10	0.15
(2,1477)	1:D:35:PHE:H	1:D:34:ASN:HA	13	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1477)	1:D:35:PHE:H	1:D:34:ASN:HA	15	0.15
(2,1477)	1:D:35:PHE:H	1:D:34:ASN:HA	19	0.15
(2,1477)	1:D:35:PHE:H	1:D:34:ASN:HA	20	0.15
(2,1474)	1:D:35:PHE:H	1:D:33:ILE:HB	14	0.15
(2,1468)	1:D:27:ASN:HD22	1:D:27:ASN:HB3	9	0.15
(2,1468)	1:D:27:ASN:HD22	1:D:27:ASN:HB3	11	0.15
(2,1462)	1:D:34:ASN:H	1:D:33:ILE:HA	7	0.15
(2,1449)	1:D:32:PHE:H	1:D:31:LEU:HA	2	0.15
(2,1449)	1:D:32:PHE:H	1:D:31:LEU:HA	13	0.15
(2,1436)	1:D:31:LEU:H	1:D:28:LEU:HA	19	0.15
(2,1370)	1:D:20:MET:H	1:D:19:GLU:HA	3	0.15
(2,1366)	1:D:19:GLU:H	1:D:19:GLU:HA	8	0.15
(2,1366)	1:D:19:GLU:H	1:D:19:GLU:HA	10	0.15
(2,1352)	1:D:17:THR:H	1:D:17:THR:HA	1	0.15
(2,1352)	1:D:17:THR:H	1:D:17:THR:HA	3	0.15
(2,1345)	1:D:16:SEP:H	1:D:15:ALA:HA	11	0.15
(2,1314)	1:D:12:ILE:H	1:D:9:ARG:HA	5	0.15
(2,1313)	1:D:12:ILE:H	1:D:11:ALA:HA	4	0.15
(2,1313)	1:D:12:ILE:H	1:D:11:ALA:HA	20	0.15
(2,1290)	1:D:9:ARG:H	1:D:7:LEU:HD11	7	0.15
(2,1290)	1:D:9:ARG:H	1:D:7:LEU:HD12	7	0.15
(2,1290)	1:D:9:ARG:H	1:D:7:LEU:HD13	7	0.15
(2,1290)	1:D:9:ARG:H	1:D:7:LEU:HD11	19	0.15
(2,1290)	1:D:9:ARG:H	1:D:7:LEU:HD12	19	0.15
(2,1290)	1:D:9:ARG:H	1:D:7:LEU:HD13	19	0.15
(2,128)	1:A:20:MET:H	1:A:19:GLU:HA	3	0.15
(2,1273)	1:D:7:LEU:H	1:D:6:TYR:HA	3	0.15
(2,1273)	1:D:7:LEU:H	1:D:6:TYR:HA	4	0.15
(2,1273)	1:D:7:LEU:H	1:D:6:TYR:HA	5	0.15
(2,1273)	1:D:7:LEU:H	1:D:6:TYR:HA	8	0.15
(2,1273)	1:D:7:LEU:H	1:D:6:TYR:HA	9	0.15
(2,1273)	1:D:7:LEU:H	1:D:6:TYR:HA	13	0.15
(2,1273)	1:D:7:LEU:H	1:D:6:TYR:HA	17	0.15
(2,1273)	1:D:7:LEU:H	1:D:6:TYR:HA	18	0.15
(2,1265)	1:D:6:TYR:H	1:D:5:GLN:HA	1	0.15
(2,1265)	1:D:6:TYR:H	1:D:5:GLN:HA	6	0.15
(2,1265)	1:D:6:TYR:H	1:D:5:GLN:HA	9	0.15
(2,1265)	1:D:6:TYR:H	1:D:5:GLN:HA	10	0.15
(2,1265)	1:D:6:TYR:H	1:D:5:GLN:HA	16	0.15
(2,1265)	1:D:6:TYR:H	1:D:5:GLN:HA	17	0.15
(2,1249)	1:D:3:LYS:H	1:D:3:LYS:HB3	12	0.15
(2,124)	1:A:19:GLU:H	1:A:19:GLU:HA	1	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,124)	1:A:19:GLU:H	1:A:19:GLU:HA	4	0.15
(2,124)	1:A:19:GLU:H	1:A:19:GLU:HA	8	0.15
(2,1239)	1:C:52:LEU:H	1:C:52:LEU:HA	7	0.15
(2,1236)	1:C:52:LEU:H	1:C:51:LEU:HA	5	0.15
(2,1236)	1:C:52:LEU:H	1:C:51:LEU:HA	8	0.15
(2,1236)	1:C:52:LEU:H	1:C:51:LEU:HA	17	0.15
(2,1217)	1:C:50:MET:H	1:C:50:MET:HB3	6	0.15
(2,1217)	1:C:50:MET:H	1:C:50:MET:HB3	8	0.15
(2,1217)	1:C:50:MET:H	1:C:50:MET:HB3	16	0.15
(2,1217)	1:C:50:MET:H	1:C:50:MET:HB3	17	0.15
(2,121)	1:A:19:GLU:H	1:A:18:ILE:HD11	7	0.15
(2,121)	1:A:19:GLU:H	1:A:18:ILE:HD12	7	0.15
(2,121)	1:A:19:GLU:H	1:A:18:ILE:HD13	7	0.15
(2,1202)	1:C:49:VAL:H	1:C:48:ILE:HA	6	0.15
(2,1202)	1:C:49:VAL:H	1:C:48:ILE:HA	7	0.15
(2,1202)	1:C:49:VAL:H	1:C:48:ILE:HA	8	0.15
(2,1202)	1:C:49:VAL:H	1:C:48:ILE:HA	9	0.15
(2,1202)	1:C:49:VAL:H	1:C:48:ILE:HA	11	0.15
(2,1202)	1:C:49:VAL:H	1:C:48:ILE:HA	12	0.15
(2,1202)	1:C:49:VAL:H	1:C:48:ILE:HA	16	0.15
(2,1202)	1:C:49:VAL:H	1:C:48:ILE:HA	17	0.15
(2,1202)	1:C:49:VAL:H	1:C:48:ILE:HA	18	0.15
(2,1202)	1:C:49:VAL:H	1:C:48:ILE:HA	19	0.15
(2,1189)	1:C:47:ILE:H	1:C:47:ILE:HD11	17	0.15
(2,1189)	1:C:47:ILE:H	1:C:47:ILE:HD12	17	0.15
(2,1189)	1:C:47:ILE:H	1:C:47:ILE:HD13	17	0.15
(2,1130)	1:C:42:LEU:H	1:C:39:LEU:HA	4	0.15
(2,1130)	1:C:42:LEU:H	1:C:39:LEU:HA	18	0.15
(2,110)	1:A:17:THR:H	1:A:17:THR:HA	1	0.15
(2,110)	1:A:17:THR:H	1:A:17:THR:HA	3	0.15
(2,1070)	1:C:36:CYS:H	1:C:35:PHE:HA	10	0.15
(2,1070)	1:C:36:CYS:H	1:C:35:PHE:HA	13	0.15
(2,1063)	1:C:35:PHE:H	1:C:34:ASN:HA	2	0.15
(2,1063)	1:C:35:PHE:H	1:C:34:ASN:HA	9	0.15
(2,1063)	1:C:35:PHE:H	1:C:34:ASN:HA	10	0.15
(2,1063)	1:C:35:PHE:H	1:C:34:ASN:HA	11	0.15
(2,1063)	1:C:35:PHE:H	1:C:34:ASN:HA	13	0.15
(2,1063)	1:C:35:PHE:H	1:C:34:ASN:HA	14	0.15
(2,1063)	1:C:35:PHE:H	1:C:34:ASN:HA	19	0.15
(2,1060)	1:C:35:PHE:H	1:C:33:ILE:HB	13	0.15
(2,1057)	1:C:34:ASN:H	1:C:34:ASN:HB3	19	0.15
(2,1054)	1:C:27:ASN:HD22	1:C:27:ASN:HB3	8	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:C:27:ASN:HD22	1:C:27:ASN:HB3	9	0.15
(2,1048)	1:C:34:ASN:H	1:C:33:ILE:HA	7	0.15
(2,1048)	1:C:34:ASN:H	1:C:33:ILE:HA	19	0.15
(2,1035)	1:C:32:PHE:H	1:C:31:LEU:HA	1	0.15
(2,1035)	1:C:32:PHE:H	1:C:31:LEU:HA	2	0.15
(2,1035)	1:C:32:PHE:H	1:C:31:LEU:HA	5	0.15
(2,1035)	1:C:32:PHE:H	1:C:31:LEU:HA	6	0.15
(2,1035)	1:C:32:PHE:H	1:C:31:LEU:HA	13	0.15
(2,98)	1:A:15:ALA:H	1:A:14:ARG:HA	9	0.14
(2,98)	1:A:15:ALA:H	1:A:14:ARG:HA	14	0.14
(2,952)	1:C:19:GLU:H	1:C:19:GLU:HA	1	0.14
(2,952)	1:C:19:GLU:H	1:C:19:GLU:HA	4	0.14
(2,931)	1:C:16:SEP:H	1:C:15:ALA:HA	15	0.14
(2,926)	1:C:15:ALA:H	1:C:14:ARG:HA	4	0.14
(2,926)	1:C:15:ALA:H	1:C:14:ARG:HA	9	0.14
(2,926)	1:C:15:ALA:H	1:C:14:ARG:HA	11	0.14
(2,926)	1:C:15:ALA:H	1:C:14:ARG:HA	14	0.14
(2,900)	1:C:12:ILE:H	1:C:9:ARG:HA	10	0.14
(2,899)	1:C:12:ILE:H	1:C:11:ALA:HA	2	0.14
(2,899)	1:C:12:ILE:H	1:C:11:ALA:HA	3	0.14
(2,899)	1:C:12:ILE:H	1:C:11:ALA:HA	5	0.14
(2,899)	1:C:12:ILE:H	1:C:11:ALA:HA	6	0.14
(2,899)	1:C:12:ILE:H	1:C:11:ALA:HA	7	0.14
(2,899)	1:C:12:ILE:H	1:C:11:ALA:HA	9	0.14
(2,899)	1:C:12:ILE:H	1:C:11:ALA:HA	10	0.14
(2,899)	1:C:12:ILE:H	1:C:11:ALA:HA	11	0.14
(2,899)	1:C:12:ILE:H	1:C:11:ALA:HA	12	0.14
(2,899)	1:C:12:ILE:H	1:C:11:ALA:HA	13	0.14
(2,899)	1:C:12:ILE:H	1:C:11:ALA:HA	18	0.14
(2,899)	1:C:12:ILE:H	1:C:11:ALA:HA	19	0.14
(2,876)	1:C:9:ARG:H	1:C:7:LEU:HD11	18	0.14
(2,876)	1:C:9:ARG:H	1:C:7:LEU:HD12	18	0.14
(2,876)	1:C:9:ARG:H	1:C:7:LEU:HD13	18	0.14
(2,859)	1:C:7:LEU:H	1:C:6:TYR:HA	2	0.14
(2,859)	1:C:7:LEU:H	1:C:6:TYR:HA	10	0.14
(2,859)	1:C:7:LEU:H	1:C:6:TYR:HA	11	0.14
(2,859)	1:C:7:LEU:H	1:C:6:TYR:HA	12	0.14
(2,859)	1:C:7:LEU:H	1:C:6:TYR:HA	14	0.14
(2,859)	1:C:7:LEU:H	1:C:6:TYR:HA	15	0.14
(2,859)	1:C:7:LEU:H	1:C:6:TYR:HA	18	0.14
(2,859)	1:C:7:LEU:H	1:C:6:TYR:HA	19	0.14
(2,851)	1:C:6:TYR:H	1:C:5:GLN:HA	2	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,851)	1:C:6:TYR:H	1:C:5:GLN:HA	7	0.14
(2,851)	1:C:6:TYR:H	1:C:5:GLN:HA	14	0.14
(2,851)	1:C:6:TYR:H	1:C:5:GLN:HA	15	0.14
(2,851)	1:C:6:TYR:H	1:C:5:GLN:HA	18	0.14
(2,822)	1:B:52:LEU:H	1:B:51:LEU:HA	15	0.14
(2,822)	1:B:52:LEU:H	1:B:51:LEU:HA	19	0.14
(2,803)	1:B:50:MET:H	1:B:50:MET:HB3	20	0.14
(2,788)	1:B:49:VAL:H	1:B:48:ILE:HA	5	0.14
(2,788)	1:B:49:VAL:H	1:B:48:ILE:HA	18	0.14
(2,72)	1:A:12:ILE:H	1:A:9:ARG:HA	5	0.14
(2,72)	1:A:12:ILE:H	1:A:9:ARG:HA	6	0.14
(2,72)	1:A:12:ILE:H	1:A:9:ARG:HA	10	0.14
(2,716)	1:B:42:LEU:H	1:B:39:LEU:HA	18	0.14
(2,71)	1:A:12:ILE:H	1:A:11:ALA:HA	1	0.14
(2,71)	1:A:12:ILE:H	1:A:11:ALA:HA	2	0.14
(2,71)	1:A:12:ILE:H	1:A:11:ALA:HA	5	0.14
(2,71)	1:A:12:ILE:H	1:A:11:ALA:HA	6	0.14
(2,71)	1:A:12:ILE:H	1:A:11:ALA:HA	7	0.14
(2,71)	1:A:12:ILE:H	1:A:11:ALA:HA	8	0.14
(2,71)	1:A:12:ILE:H	1:A:11:ALA:HA	9	0.14
(2,71)	1:A:12:ILE:H	1:A:11:ALA:HA	10	0.14
(2,71)	1:A:12:ILE:H	1:A:11:ALA:HA	11	0.14
(2,71)	1:A:12:ILE:H	1:A:11:ALA:HA	12	0.14
(2,71)	1:A:12:ILE:H	1:A:11:ALA:HA	13	0.14
(2,71)	1:A:12:ILE:H	1:A:11:ALA:HA	14	0.14
(2,71)	1:A:12:ILE:H	1:A:11:ALA:HA	16	0.14
(2,71)	1:A:12:ILE:H	1:A:11:ALA:HA	17	0.14
(2,71)	1:A:12:ILE:H	1:A:11:ALA:HA	18	0.14
(2,649)	1:B:35:PHE:H	1:B:34:ASN:HA	4	0.14
(2,649)	1:B:35:PHE:H	1:B:34:ASN:HA	12	0.14
(2,649)	1:B:35:PHE:H	1:B:34:ASN:HA	13	0.14
(2,649)	1:B:35:PHE:H	1:B:34:ASN:HA	15	0.14
(2,649)	1:B:35:PHE:H	1:B:34:ASN:HA	16	0.14
(2,649)	1:B:35:PHE:H	1:B:34:ASN:HA	17	0.14
(2,649)	1:B:35:PHE:H	1:B:34:ASN:HA	20	0.14
(2,646)	1:B:35:PHE:H	1:B:33:ILE:HB	14	0.14
(2,640)	1:B:27:ASN:HD22	1:B:27:ASN:HB3	8	0.14
(2,640)	1:B:27:ASN:HD22	1:B:27:ASN:HB3	12	0.14
(2,538)	1:B:19:GLU:H	1:B:19:GLU:HA	4	0.14
(2,524)	1:B:17:THR:H	1:B:17:THR:HA	3	0.14
(2,517)	1:B:16:SEP:H	1:B:15:ALA:HA	15	0.14
(2,512)	1:B:15:ALA:H	1:B:14:ARG:HA	4	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,512)	1:B:15:ALA:H	1:B:14:ARG:HA	9	0.14
(2,512)	1:B:15:ALA:H	1:B:14:ARG:HA	14	0.14
(2,512)	1:B:15:ALA:H	1:B:14:ARG:HA	16	0.14
(2,486)	1:B:12:ILE:H	1:B:9:ARG:HA	6	0.14
(2,485)	1:B:12:ILE:H	1:B:11:ALA:HA	1	0.14
(2,485)	1:B:12:ILE:H	1:B:11:ALA:HA	2	0.14
(2,485)	1:B:12:ILE:H	1:B:11:ALA:HA	3	0.14
(2,485)	1:B:12:ILE:H	1:B:11:ALA:HA	5	0.14
(2,485)	1:B:12:ILE:H	1:B:11:ALA:HA	7	0.14
(2,485)	1:B:12:ILE:H	1:B:11:ALA:HA	8	0.14
(2,485)	1:B:12:ILE:H	1:B:11:ALA:HA	9	0.14
(2,485)	1:B:12:ILE:H	1:B:11:ALA:HA	10	0.14
(2,485)	1:B:12:ILE:H	1:B:11:ALA:HA	11	0.14
(2,485)	1:B:12:ILE:H	1:B:11:ALA:HA	13	0.14
(2,485)	1:B:12:ILE:H	1:B:11:ALA:HA	14	0.14
(2,485)	1:B:12:ILE:H	1:B:11:ALA:HA	16	0.14
(2,485)	1:B:12:ILE:H	1:B:11:ALA:HA	18	0.14
(2,485)	1:B:12:ILE:H	1:B:11:ALA:HA	19	0.14
(2,462)	1:B:9:ARG:H	1:B:7:LEU:HD11	14	0.14
(2,462)	1:B:9:ARG:H	1:B:7:LEU:HD12	14	0.14
(2,462)	1:B:9:ARG:H	1:B:7:LEU:HD13	14	0.14
(2,462)	1:B:9:ARG:H	1:B:7:LEU:HD11	15	0.14
(2,462)	1:B:9:ARG:H	1:B:7:LEU:HD12	15	0.14
(2,462)	1:B:9:ARG:H	1:B:7:LEU:HD13	15	0.14
(2,445)	1:B:7:LEU:H	1:B:6:TYR:HA	2	0.14
(2,445)	1:B:7:LEU:H	1:B:6:TYR:HA	11	0.14
(2,445)	1:B:7:LEU:H	1:B:6:TYR:HA	12	0.14
(2,445)	1:B:7:LEU:H	1:B:6:TYR:HA	14	0.14
(2,445)	1:B:7:LEU:H	1:B:6:TYR:HA	15	0.14
(2,445)	1:B:7:LEU:H	1:B:6:TYR:HA	17	0.14
(2,445)	1:B:7:LEU:H	1:B:6:TYR:HA	18	0.14
(2,445)	1:B:7:LEU:H	1:B:6:TYR:HA	19	0.14
(2,437)	1:B:6:TYR:H	1:B:5:GLN:HA	2	0.14
(2,437)	1:B:6:TYR:H	1:B:5:GLN:HA	5	0.14
(2,437)	1:B:6:TYR:H	1:B:5:GLN:HA	7	0.14
(2,437)	1:B:6:TYR:H	1:B:5:GLN:HA	11	0.14
(2,437)	1:B:6:TYR:H	1:B:5:GLN:HA	15	0.14
(2,437)	1:B:6:TYR:H	1:B:5:GLN:HA	18	0.14
(2,437)	1:B:6:TYR:H	1:B:5:GLN:HA	19	0.14
(2,408)	1:A:52:LEU:H	1:A:51:LEU:HA	6	0.14
(2,408)	1:A:52:LEU:H	1:A:51:LEU:HA	19	0.14
(2,389)	1:A:50:MET:H	1:A:50:MET:HB3	2	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,389)	1:A:50:MET:H	1:A:50:MET:HB3	3	0.14
(2,389)	1:A:50:MET:H	1:A:50:MET:HB3	18	0.14
(2,389)	1:A:50:MET:H	1:A:50:MET:HB3	20	0.14
(2,374)	1:A:49:VAL:H	1:A:48:ILE:HA	5	0.14
(2,374)	1:A:49:VAL:H	1:A:48:ILE:HA	14	0.14
(2,361)	1:A:47:ILE:H	1:A:47:ILE:HD11	15	0.14
(2,361)	1:A:47:ILE:H	1:A:47:ILE:HD12	15	0.14
(2,361)	1:A:47:ILE:H	1:A:47:ILE:HD13	15	0.14
(2,336)	1:A:45:ILE:H	1:A:42:LEU:HA	8	0.14
(2,31)	1:A:7:LEU:H	1:A:6:TYR:HA	2	0.14
(2,31)	1:A:7:LEU:H	1:A:6:TYR:HA	3	0.14
(2,31)	1:A:7:LEU:H	1:A:6:TYR:HA	4	0.14
(2,31)	1:A:7:LEU:H	1:A:6:TYR:HA	5	0.14
(2,31)	1:A:7:LEU:H	1:A:6:TYR:HA	10	0.14
(2,31)	1:A:7:LEU:H	1:A:6:TYR:HA	11	0.14
(2,31)	1:A:7:LEU:H	1:A:6:TYR:HA	14	0.14
(2,31)	1:A:7:LEU:H	1:A:6:TYR:HA	15	0.14
(2,31)	1:A:7:LEU:H	1:A:6:TYR:HA	17	0.14
(2,31)	1:A:7:LEU:H	1:A:6:TYR:HA	18	0.14
(2,31)	1:A:7:LEU:H	1:A:6:TYR:HA	19	0.14
(2,302)	1:A:42:LEU:H	1:A:39:LEU:HA	11	0.14
(2,302)	1:A:42:LEU:H	1:A:39:LEU:HA	16	0.14
(2,287)	1:A:39:LEU:H	1:A:35:PHE:HD1	20	0.14
(2,287)	1:A:39:LEU:H	1:A:35:PHE:HD2	20	0.14
(2,242)	1:A:36:CYS:H	1:A:35:PHE:HA	6	0.14
(2,242)	1:A:36:CYS:H	1:A:35:PHE:HA	10	0.14
(2,235)	1:A:35:PHE:H	1:A:34:ASN:HA	4	0.14
(2,235)	1:A:35:PHE:H	1:A:34:ASN:HA	6	0.14
(2,235)	1:A:35:PHE:H	1:A:34:ASN:HA	11	0.14
(2,235)	1:A:35:PHE:H	1:A:34:ASN:HA	12	0.14
(2,235)	1:A:35:PHE:H	1:A:34:ASN:HA	17	0.14
(2,232)	1:A:35:PHE:H	1:A:33:ILE:HB	3	0.14
(2,23)	1:A:6:TYR:H	1:A:5:GLN:HA	2	0.14
(2,23)	1:A:6:TYR:H	1:A:5:GLN:HA	4	0.14
(2,23)	1:A:6:TYR:H	1:A:5:GLN:HA	7	0.14
(2,23)	1:A:6:TYR:H	1:A:5:GLN:HA	12	0.14
(2,23)	1:A:6:TYR:H	1:A:5:GLN:HA	15	0.14
(2,23)	1:A:6:TYR:H	1:A:5:GLN:HA	18	0.14
(2,23)	1:A:6:TYR:H	1:A:5:GLN:HA	19	0.14
(2,226)	1:A:27:ASN:HD22	1:A:27:ASN:HB3	8	0.14
(2,2064)	1:E:52:LEU:H	1:E:51:LEU:HA	2	0.14
(2,2064)	1:E:52:LEU:H	1:E:51:LEU:HA	10	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2064)	1:E:52:LEU:H	1:E:51:LEU:HA	17	0.14
(2,2064)	1:E:52:LEU:H	1:E:51:LEU:HA	19	0.14
(2,2045)	1:E:50:MET:H	1:E:50:MET:HB3	10	0.14
(2,2045)	1:E:50:MET:H	1:E:50:MET:HB3	20	0.14
(2,2030)	1:E:49:VAL:H	1:E:48:ILE:HA	5	0.14
(2,1946)	1:E:41:CYS:H	1:E:38:ILE:HA	16	0.14
(2,1941)	1:E:40:ILE:H	1:E:37:LEU:HA	17	0.14
(2,194)	1:A:31:LEU:H	1:A:28:LEU:HA	2	0.14
(2,1926)	1:E:39:LEU:H	1:E:36:CYS:HA	1	0.14
(2,1891)	1:E:35:PHE:H	1:E:34:ASN:HA	4	0.14
(2,1891)	1:E:35:PHE:H	1:E:34:ASN:HA	6	0.14
(2,1891)	1:E:35:PHE:H	1:E:34:ASN:HA	11	0.14
(2,1891)	1:E:35:PHE:H	1:E:34:ASN:HA	12	0.14
(2,1891)	1:E:35:PHE:H	1:E:34:ASN:HA	13	0.14
(2,1882)	1:E:27:ASN:HD22	1:E:27:ASN:HB3	8	0.14
(2,1882)	1:E:27:ASN:HD22	1:E:27:ASN:HB3	12	0.14
(2,1882)	1:E:27:ASN:HD22	1:E:27:ASN:HB3	17	0.14
(2,1850)	1:E:31:LEU:H	1:E:28:LEU:HA	2	0.14
(2,1780)	1:E:19:GLU:H	1:E:19:GLU:HA	1	0.14
(2,1780)	1:E:19:GLU:H	1:E:19:GLU:HA	4	0.14
(2,1766)	1:E:17:THR:H	1:E:17:THR:HA	3	0.14
(2,1766)	1:E:17:THR:H	1:E:17:THR:HA	18	0.14
(2,1759)	1:E:16:SEP:H	1:E:15:ALA:HA	15	0.14
(2,1754)	1:E:15:ALA:H	1:E:14:ARG:HA	9	0.14
(2,1754)	1:E:15:ALA:H	1:E:14:ARG:HA	10	0.14
(2,1754)	1:E:15:ALA:H	1:E:14:ARG:HA	11	0.14
(2,1754)	1:E:15:ALA:H	1:E:14:ARG:HA	14	0.14
(2,1754)	1:E:15:ALA:H	1:E:14:ARG:HA	16	0.14
(2,1728)	1:E:12:ILE:H	1:E:9:ARG:HA	15	0.14
(2,1727)	1:E:12:ILE:H	1:E:11:ALA:HA	1	0.14
(2,1727)	1:E:12:ILE:H	1:E:11:ALA:HA	2	0.14
(2,1727)	1:E:12:ILE:H	1:E:11:ALA:HA	3	0.14
(2,1727)	1:E:12:ILE:H	1:E:11:ALA:HA	5	0.14
(2,1727)	1:E:12:ILE:H	1:E:11:ALA:HA	6	0.14
(2,1727)	1:E:12:ILE:H	1:E:11:ALA:HA	7	0.14
(2,1727)	1:E:12:ILE:H	1:E:11:ALA:HA	8	0.14
(2,1727)	1:E:12:ILE:H	1:E:11:ALA:HA	9	0.14
(2,1727)	1:E:12:ILE:H	1:E:11:ALA:HA	10	0.14
(2,1727)	1:E:12:ILE:H	1:E:11:ALA:HA	11	0.14
(2,1727)	1:E:12:ILE:H	1:E:11:ALA:HA	12	0.14
(2,1727)	1:E:12:ILE:H	1:E:11:ALA:HA	13	0.14
(2,1727)	1:E:12:ILE:H	1:E:11:ALA:HA	14	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1727)	1:E:12:ILE:H	1:E:11:ALA:HA	16	0.14
(2,1727)	1:E:12:ILE:H	1:E:11:ALA:HA	17	0.14
(2,1727)	1:E:12:ILE:H	1:E:11:ALA:HA	18	0.14
(2,1727)	1:E:12:ILE:H	1:E:11:ALA:HA	19	0.14
(2,1704)	1:E:9:ARG:H	1:E:7:LEU:HD11	14	0.14
(2,1704)	1:E:9:ARG:H	1:E:7:LEU:HD12	14	0.14
(2,1704)	1:E:9:ARG:H	1:E:7:LEU:HD13	14	0.14
(2,1704)	1:E:9:ARG:H	1:E:7:LEU:HD11	15	0.14
(2,1704)	1:E:9:ARG:H	1:E:7:LEU:HD12	15	0.14
(2,1704)	1:E:9:ARG:H	1:E:7:LEU:HD13	15	0.14
(2,1687)	1:E:7:LEU:H	1:E:6:TYR:HA	1	0.14
(2,1687)	1:E:7:LEU:H	1:E:6:TYR:HA	2	0.14
(2,1687)	1:E:7:LEU:H	1:E:6:TYR:HA	5	0.14
(2,1687)	1:E:7:LEU:H	1:E:6:TYR:HA	7	0.14
(2,1687)	1:E:7:LEU:H	1:E:6:TYR:HA	11	0.14
(2,1687)	1:E:7:LEU:H	1:E:6:TYR:HA	12	0.14
(2,1687)	1:E:7:LEU:H	1:E:6:TYR:HA	14	0.14
(2,1687)	1:E:7:LEU:H	1:E:6:TYR:HA	15	0.14
(2,1687)	1:E:7:LEU:H	1:E:6:TYR:HA	16	0.14
(2,1687)	1:E:7:LEU:H	1:E:6:TYR:HA	19	0.14
(2,1679)	1:E:6:TYR:H	1:E:5:GLN:HA	2	0.14
(2,1679)	1:E:6:TYR:H	1:E:5:GLN:HA	7	0.14
(2,1679)	1:E:6:TYR:H	1:E:5:GLN:HA	11	0.14
(2,1679)	1:E:6:TYR:H	1:E:5:GLN:HA	14	0.14
(2,1679)	1:E:6:TYR:H	1:E:5:GLN:HA	15	0.14
(2,1679)	1:E:6:TYR:H	1:E:5:GLN:HA	18	0.14
(2,1679)	1:E:6:TYR:H	1:E:5:GLN:HA	19	0.14
(2,1650)	1:D:52:LEU:H	1:D:51:LEU:HA	14	0.14
(2,1650)	1:D:52:LEU:H	1:D:51:LEU:HA	19	0.14
(2,1631)	1:D:50:MET:H	1:D:50:MET:HB3	1	0.14
(2,1631)	1:D:50:MET:H	1:D:50:MET:HB3	10	0.14
(2,1631)	1:D:50:MET:H	1:D:50:MET:HB3	15	0.14
(2,1631)	1:D:50:MET:H	1:D:50:MET:HB3	20	0.14
(2,1616)	1:D:49:VAL:H	1:D:48:ILE:HA	5	0.14
(2,1603)	1:D:47:ILE:H	1:D:47:ILE:HD11	17	0.14
(2,1603)	1:D:47:ILE:H	1:D:47:ILE:HD12	17	0.14
(2,1603)	1:D:47:ILE:H	1:D:47:ILE:HD13	17	0.14
(2,1544)	1:D:42:LEU:H	1:D:39:LEU:HA	4	0.14
(2,1529)	1:D:39:LEU:H	1:D:35:PHE:HD1	11	0.14
(2,1529)	1:D:39:LEU:H	1:D:35:PHE:HD2	11	0.14
(2,1492)	1:D:37:LEU:H	1:D:34:ASN:HA	9	0.14
(2,1477)	1:D:35:PHE:H	1:D:34:ASN:HA	1	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1477)	1:D:35:PHE:H	1:D:34:ASN:HA	11	0.14
(2,1477)	1:D:35:PHE:H	1:D:34:ASN:HA	12	0.14
(2,1477)	1:D:35:PHE:H	1:D:34:ASN:HA	16	0.14
(2,1474)	1:D:35:PHE:H	1:D:33:ILE:HB	6	0.14
(2,1474)	1:D:35:PHE:H	1:D:33:ILE:HB	17	0.14
(2,1468)	1:D:27:ASN:HD22	1:D:27:ASN:HB3	8	0.14
(2,1366)	1:D:19:GLU:H	1:D:19:GLU:HA	1	0.14
(2,1366)	1:D:19:GLU:H	1:D:19:GLU:HA	4	0.14
(2,1345)	1:D:16:SEP:H	1:D:15:ALA:HA	15	0.14
(2,1340)	1:D:15:ALA:H	1:D:14:ARG:HA	4	0.14
(2,1340)	1:D:15:ALA:H	1:D:14:ARG:HA	9	0.14
(2,1340)	1:D:15:ALA:H	1:D:14:ARG:HA	11	0.14
(2,1340)	1:D:15:ALA:H	1:D:14:ARG:HA	14	0.14
(2,1340)	1:D:15:ALA:H	1:D:14:ARG:HA	16	0.14
(2,1314)	1:D:12:ILE:H	1:D:9:ARG:HA	6	0.14
(2,1313)	1:D:12:ILE:H	1:D:11:ALA:HA	1	0.14
(2,1313)	1:D:12:ILE:H	1:D:11:ALA:HA	2	0.14
(2,1313)	1:D:12:ILE:H	1:D:11:ALA:HA	3	0.14
(2,1313)	1:D:12:ILE:H	1:D:11:ALA:HA	5	0.14
(2,1313)	1:D:12:ILE:H	1:D:11:ALA:HA	6	0.14
(2,1313)	1:D:12:ILE:H	1:D:11:ALA:HA	7	0.14
(2,1313)	1:D:12:ILE:H	1:D:11:ALA:HA	8	0.14
(2,1313)	1:D:12:ILE:H	1:D:11:ALA:HA	9	0.14
(2,1313)	1:D:12:ILE:H	1:D:11:ALA:HA	10	0.14
(2,1313)	1:D:12:ILE:H	1:D:11:ALA:HA	12	0.14
(2,1313)	1:D:12:ILE:H	1:D:11:ALA:HA	13	0.14
(2,1313)	1:D:12:ILE:H	1:D:11:ALA:HA	14	0.14
(2,1313)	1:D:12:ILE:H	1:D:11:ALA:HA	16	0.14
(2,1313)	1:D:12:ILE:H	1:D:11:ALA:HA	17	0.14
(2,1313)	1:D:12:ILE:H	1:D:11:ALA:HA	18	0.14
(2,1290)	1:D:9:ARG:H	1:D:7:LEU:HD11	14	0.14
(2,1290)	1:D:9:ARG:H	1:D:7:LEU:HD12	14	0.14
(2,1290)	1:D:9:ARG:H	1:D:7:LEU:HD13	14	0.14
(2,1290)	1:D:9:ARG:H	1:D:7:LEU:HD11	15	0.14
(2,1290)	1:D:9:ARG:H	1:D:7:LEU:HD12	15	0.14
(2,1290)	1:D:9:ARG:H	1:D:7:LEU:HD13	15	0.14
(2,1273)	1:D:7:LEU:H	1:D:6:TYR:HA	1	0.14
(2,1273)	1:D:7:LEU:H	1:D:6:TYR:HA	2	0.14
(2,1273)	1:D:7:LEU:H	1:D:6:TYR:HA	7	0.14
(2,1273)	1:D:7:LEU:H	1:D:6:TYR:HA	10	0.14
(2,1273)	1:D:7:LEU:H	1:D:6:TYR:HA	11	0.14
(2,1273)	1:D:7:LEU:H	1:D:6:TYR:HA	12	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1273)	1:D:7:LEU:H	1:D:6:TYR:HA	14	0.14
(2,1273)	1:D:7:LEU:H	1:D:6:TYR:HA	15	0.14
(2,1273)	1:D:7:LEU:H	1:D:6:TYR:HA	19	0.14
(2,1265)	1:D:6:TYR:H	1:D:5:GLN:HA	2	0.14
(2,1265)	1:D:6:TYR:H	1:D:5:GLN:HA	4	0.14
(2,1265)	1:D:6:TYR:H	1:D:5:GLN:HA	7	0.14
(2,1265)	1:D:6:TYR:H	1:D:5:GLN:HA	11	0.14
(2,1265)	1:D:6:TYR:H	1:D:5:GLN:HA	14	0.14
(2,1265)	1:D:6:TYR:H	1:D:5:GLN:HA	15	0.14
(2,1265)	1:D:6:TYR:H	1:D:5:GLN:HA	18	0.14
(2,1265)	1:D:6:TYR:H	1:D:5:GLN:HA	19	0.14
(2,1236)	1:C:52:LEU:H	1:C:51:LEU:HA	6	0.14
(2,1236)	1:C:52:LEU:H	1:C:51:LEU:HA	9	0.14
(2,1236)	1:C:52:LEU:H	1:C:51:LEU:HA	19	0.14
(2,1217)	1:C:50:MET:H	1:C:50:MET:HB3	1	0.14
(2,1217)	1:C:50:MET:H	1:C:50:MET:HB3	15	0.14
(2,1217)	1:C:50:MET:H	1:C:50:MET:HB3	18	0.14
(2,1202)	1:C:49:VAL:H	1:C:48:ILE:HA	5	0.14
(2,1189)	1:C:47:ILE:H	1:C:47:ILE:HD11	1	0.14
(2,1189)	1:C:47:ILE:H	1:C:47:ILE:HD12	1	0.14
(2,1189)	1:C:47:ILE:H	1:C:47:ILE:HD13	1	0.14
(2,110)	1:A:17:THR:H	1:A:17:THR:HA	18	0.14
(2,1078)	1:C:37:LEU:H	1:C:34:ASN:HA	15	0.14
(2,1063)	1:C:35:PHE:H	1:C:34:ASN:HA	1	0.14
(2,1063)	1:C:35:PHE:H	1:C:34:ASN:HA	12	0.14
(2,1063)	1:C:35:PHE:H	1:C:34:ASN:HA	15	0.14
(2,1063)	1:C:35:PHE:H	1:C:34:ASN:HA	17	0.14
(2,1060)	1:C:35:PHE:H	1:C:33:ILE:HB	14	0.14
(2,1054)	1:C:27:ASN:HD22	1:C:27:ASN:HB3	11	0.14
(2,1054)	1:C:27:ASN:HD22	1:C:27:ASN:HB3	12	0.14
(2,103)	1:A:16:SEP:H	1:A:15:ALA:HA	15	0.14
(2,98)	1:A:15:ALA:H	1:A:14:ARG:HA	1	0.13
(2,98)	1:A:15:ALA:H	1:A:14:ARG:HA	6	0.13
(2,98)	1:A:15:ALA:H	1:A:14:ARG:HA	7	0.13
(2,98)	1:A:15:ALA:H	1:A:14:ARG:HA	12	0.13
(2,98)	1:A:15:ALA:H	1:A:14:ARG:HA	16	0.13
(2,98)	1:A:15:ALA:H	1:A:14:ARG:HA	19	0.13
(2,938)	1:C:17:THR:H	1:C:17:THR:HA	15	0.13
(2,938)	1:C:17:THR:H	1:C:17:THR:HA	18	0.13
(2,931)	1:C:16:SEP:H	1:C:15:ALA:HA	9	0.13
(2,926)	1:C:15:ALA:H	1:C:14:ARG:HA	1	0.13
(2,926)	1:C:15:ALA:H	1:C:14:ARG:HA	6	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,926)	1:C:15:ALA:H	1:C:14:ARG:HA	7	0.13
(2,926)	1:C:15:ALA:H	1:C:14:ARG:HA	10	0.13
(2,926)	1:C:15:ALA:H	1:C:14:ARG:HA	12	0.13
(2,926)	1:C:15:ALA:H	1:C:14:ARG:HA	16	0.13
(2,926)	1:C:15:ALA:H	1:C:14:ARG:HA	19	0.13
(2,913)	1:C:13:ARG:H	1:C:12:ILE:HA	6	0.13
(2,913)	1:C:13:ARG:H	1:C:12:ILE:HA	7	0.13
(2,913)	1:C:13:ARG:H	1:C:12:ILE:HA	12	0.13
(2,913)	1:C:13:ARG:H	1:C:12:ILE:HA	15	0.13
(2,913)	1:C:13:ARG:H	1:C:12:ILE:HA	16	0.13
(2,913)	1:C:13:ARG:H	1:C:12:ILE:HA	20	0.13
(2,900)	1:C:12:ILE:H	1:C:9:ARG:HA	2	0.13
(2,900)	1:C:12:ILE:H	1:C:9:ARG:HA	6	0.13
(2,900)	1:C:12:ILE:H	1:C:9:ARG:HA	15	0.13
(2,899)	1:C:12:ILE:H	1:C:11:ALA:HA	15	0.13
(2,899)	1:C:12:ILE:H	1:C:11:ALA:HA	17	0.13
(2,876)	1:C:9:ARG:H	1:C:7:LEU:HD11	7	0.13
(2,876)	1:C:9:ARG:H	1:C:7:LEU:HD12	7	0.13
(2,876)	1:C:9:ARG:H	1:C:7:LEU:HD13	7	0.13
(2,876)	1:C:9:ARG:H	1:C:7:LEU:HD11	14	0.13
(2,876)	1:C:9:ARG:H	1:C:7:LEU:HD12	14	0.13
(2,876)	1:C:9:ARG:H	1:C:7:LEU:HD13	14	0.13
(2,851)	1:C:6:TYR:H	1:C:5:GLN:HA	12	0.13
(2,851)	1:C:6:TYR:H	1:C:5:GLN:HA	19	0.13
(2,85)	1:A:13:ARG:H	1:A:12:ILE:HA	1	0.13
(2,85)	1:A:13:ARG:H	1:A:12:ILE:HA	6	0.13
(2,85)	1:A:13:ARG:H	1:A:12:ILE:HA	7	0.13
(2,85)	1:A:13:ARG:H	1:A:12:ILE:HA	15	0.13
(2,85)	1:A:13:ARG:H	1:A:12:ILE:HA	16	0.13
(2,85)	1:A:13:ARG:H	1:A:12:ILE:HA	20	0.13
(2,822)	1:B:52:LEU:H	1:B:51:LEU:HA	4	0.13
(2,822)	1:B:52:LEU:H	1:B:51:LEU:HA	6	0.13
(2,822)	1:B:52:LEU:H	1:B:51:LEU:HA	9	0.13
(2,822)	1:B:52:LEU:H	1:B:51:LEU:HA	11	0.13
(2,822)	1:B:52:LEU:H	1:B:51:LEU:HA	12	0.13
(2,822)	1:B:52:LEU:H	1:B:51:LEU:HA	16	0.13
(2,803)	1:B:50:MET:H	1:B:50:MET:HB3	2	0.13
(2,738)	1:B:44:LEU:H	1:B:41:CYS:HB2	20	0.13
(2,738)	1:B:44:LEU:H	1:B:41:CYS:HB3	20	0.13
(2,72)	1:A:12:ILE:H	1:A:9:ARG:HA	2	0.13
(2,72)	1:A:12:ILE:H	1:A:9:ARG:HA	15	0.13
(2,72)	1:A:12:ILE:H	1:A:9:ARG:HA	18	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,71)	1:A:12:ILE:H	1:A:11:ALA:HA	15	0.13
(2,71)	1:A:12:ILE:H	1:A:11:ALA:HA	19	0.13
(2,699)	1:B:40:ILE:H	1:B:37:LEU:HA	14	0.13
(2,646)	1:B:35:PHE:H	1:B:33:ILE:HB	6	0.13
(2,646)	1:B:35:PHE:H	1:B:33:ILE:HB	13	0.13
(2,524)	1:B:17:THR:H	1:B:17:THR:HA	15	0.13
(2,524)	1:B:17:THR:H	1:B:17:THR:HA	18	0.13
(2,517)	1:B:16:SEP:H	1:B:15:ALA:HA	9	0.13
(2,517)	1:B:16:SEP:H	1:B:15:ALA:HA	16	0.13
(2,512)	1:B:15:ALA:H	1:B:14:ARG:HA	1	0.13
(2,512)	1:B:15:ALA:H	1:B:14:ARG:HA	6	0.13
(2,512)	1:B:15:ALA:H	1:B:14:ARG:HA	7	0.13
(2,512)	1:B:15:ALA:H	1:B:14:ARG:HA	10	0.13
(2,512)	1:B:15:ALA:H	1:B:14:ARG:HA	11	0.13
(2,512)	1:B:15:ALA:H	1:B:14:ARG:HA	12	0.13
(2,512)	1:B:15:ALA:H	1:B:14:ARG:HA	19	0.13
(2,499)	1:B:13:ARG:H	1:B:12:ILE:HA	1	0.13
(2,499)	1:B:13:ARG:H	1:B:12:ILE:HA	7	0.13
(2,499)	1:B:13:ARG:H	1:B:12:ILE:HA	15	0.13
(2,499)	1:B:13:ARG:H	1:B:12:ILE:HA	16	0.13
(2,486)	1:B:12:ILE:H	1:B:9:ARG:HA	15	0.13
(2,485)	1:B:12:ILE:H	1:B:11:ALA:HA	6	0.13
(2,485)	1:B:12:ILE:H	1:B:11:ALA:HA	15	0.13
(2,485)	1:B:12:ILE:H	1:B:11:ALA:HA	17	0.13
(2,48)	1:A:9:ARG:H	1:A:7:LEU:HD11	7	0.13
(2,48)	1:A:9:ARG:H	1:A:7:LEU:HD12	7	0.13
(2,48)	1:A:9:ARG:H	1:A:7:LEU:HD13	7	0.13
(2,48)	1:A:9:ARG:H	1:A:7:LEU:HD11	11	0.13
(2,48)	1:A:9:ARG:H	1:A:7:LEU:HD12	11	0.13
(2,48)	1:A:9:ARG:H	1:A:7:LEU:HD13	11	0.13
(2,462)	1:B:9:ARG:H	1:B:7:LEU:HD11	2	0.13
(2,462)	1:B:9:ARG:H	1:B:7:LEU:HD12	2	0.13
(2,462)	1:B:9:ARG:H	1:B:7:LEU:HD13	2	0.13
(2,462)	1:B:9:ARG:H	1:B:7:LEU:HD11	7	0.13
(2,462)	1:B:9:ARG:H	1:B:7:LEU:HD12	7	0.13
(2,462)	1:B:9:ARG:H	1:B:7:LEU:HD13	7	0.13
(2,462)	1:B:9:ARG:H	1:B:7:LEU:HD11	11	0.13
(2,462)	1:B:9:ARG:H	1:B:7:LEU:HD12	11	0.13
(2,462)	1:B:9:ARG:H	1:B:7:LEU:HD13	11	0.13
(2,462)	1:B:9:ARG:H	1:B:7:LEU:HD11	18	0.13
(2,462)	1:B:9:ARG:H	1:B:7:LEU:HD12	18	0.13
(2,462)	1:B:9:ARG:H	1:B:7:LEU:HD13	18	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,437)	1:B:6:TYR:H	1:B:5:GLN:HA	12	0.13
(2,437)	1:B:6:TYR:H	1:B:5:GLN:HA	14	0.13
(2,408)	1:A:52:LEU:H	1:A:51:LEU:HA	4	0.13
(2,408)	1:A:52:LEU:H	1:A:51:LEU:HA	9	0.13
(2,408)	1:A:52:LEU:H	1:A:51:LEU:HA	11	0.13
(2,408)	1:A:52:LEU:H	1:A:51:LEU:HA	12	0.13
(2,408)	1:A:52:LEU:H	1:A:51:LEU:HA	13	0.13
(2,408)	1:A:52:LEU:H	1:A:51:LEU:HA	18	0.13
(2,302)	1:A:42:LEU:H	1:A:39:LEU:HA	4	0.13
(2,250)	1:A:37:LEU:H	1:A:34:ASN:HA	7	0.13
(2,250)	1:A:37:LEU:H	1:A:34:ASN:HA	15	0.13
(2,235)	1:A:35:PHE:H	1:A:34:ASN:HA	20	0.13
(2,232)	1:A:35:PHE:H	1:A:33:ILE:HB	6	0.13
(2,23)	1:A:6:TYR:H	1:A:5:GLN:HA	5	0.13
(2,23)	1:A:6:TYR:H	1:A:5:GLN:HA	14	0.13
(2,226)	1:A:27:ASN:HD22	1:A:27:ASN:HB3	6	0.13
(2,226)	1:A:27:ASN:HD22	1:A:27:ASN:HB3	12	0.13
(2,207)	1:A:32:PHE:H	1:A:31:LEU:HA	10	0.13
(2,2064)	1:E:52:LEU:H	1:E:51:LEU:HA	4	0.13
(2,2064)	1:E:52:LEU:H	1:E:51:LEU:HA	6	0.13
(2,2064)	1:E:52:LEU:H	1:E:51:LEU:HA	9	0.13
(2,2064)	1:E:52:LEU:H	1:E:51:LEU:HA	11	0.13
(2,2064)	1:E:52:LEU:H	1:E:51:LEU:HA	12	0.13
(2,2064)	1:E:52:LEU:H	1:E:51:LEU:HA	16	0.13
(2,2045)	1:E:50:MET:H	1:E:50:MET:HB3	2	0.13
(2,2017)	1:E:47:ILE:H	1:E:47:ILE:HD11	14	0.13
(2,2017)	1:E:47:ILE:H	1:E:47:ILE:HD12	14	0.13
(2,2017)	1:E:47:ILE:H	1:E:47:ILE:HD13	14	0.13
(2,1992)	1:E:45:ILE:H	1:E:42:LEU:HA	14	0.13
(2,1980)	1:E:44:LEU:H	1:E:41:CYS:HB2	6	0.13
(2,1980)	1:E:44:LEU:H	1:E:41:CYS:HB3	6	0.13
(2,1906)	1:E:37:LEU:H	1:E:34:ASN:HA	9	0.13
(2,1891)	1:E:35:PHE:H	1:E:34:ASN:HA	16	0.13
(2,1891)	1:E:35:PHE:H	1:E:34:ASN:HA	20	0.13
(2,1863)	1:E:32:PHE:H	1:E:31:LEU:HA	10	0.13
(2,1813)	1:E:27:ASN:H	1:E:25:ARG:H	15	0.13
(2,1766)	1:E:17:THR:H	1:E:17:THR:HA	15	0.13
(2,1759)	1:E:16:SEP:H	1:E:15:ALA:HA	9	0.13
(2,1754)	1:E:15:ALA:H	1:E:14:ARG:HA	1	0.13
(2,1754)	1:E:15:ALA:H	1:E:14:ARG:HA	6	0.13
(2,1754)	1:E:15:ALA:H	1:E:14:ARG:HA	7	0.13
(2,1754)	1:E:15:ALA:H	1:E:14:ARG:HA	12	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1741)	1:E:13:ARG:H	1:E:12:ILE:HA	1	0.13
(2,1741)	1:E:13:ARG:H	1:E:12:ILE:HA	6	0.13
(2,1741)	1:E:13:ARG:H	1:E:12:ILE:HA	7	0.13
(2,1741)	1:E:13:ARG:H	1:E:12:ILE:HA	9	0.13
(2,1741)	1:E:13:ARG:H	1:E:12:ILE:HA	10	0.13
(2,1741)	1:E:13:ARG:H	1:E:12:ILE:HA	12	0.13
(2,1741)	1:E:13:ARG:H	1:E:12:ILE:HA	15	0.13
(2,1741)	1:E:13:ARG:H	1:E:12:ILE:HA	16	0.13
(2,1741)	1:E:13:ARG:H	1:E:12:ILE:HA	20	0.13
(2,1728)	1:E:12:ILE:H	1:E:9:ARG:HA	2	0.13
(2,1728)	1:E:12:ILE:H	1:E:9:ARG:HA	6	0.13
(2,1727)	1:E:12:ILE:H	1:E:11:ALA:HA	15	0.13
(2,1704)	1:E:9:ARG:H	1:E:7:LEU:HD11	7	0.13
(2,1704)	1:E:9:ARG:H	1:E:7:LEU:HD12	7	0.13
(2,1704)	1:E:9:ARG:H	1:E:7:LEU:HD13	7	0.13
(2,1704)	1:E:9:ARG:H	1:E:7:LEU:HD11	11	0.13
(2,1704)	1:E:9:ARG:H	1:E:7:LEU:HD12	11	0.13
(2,1704)	1:E:9:ARG:H	1:E:7:LEU:HD13	11	0.13
(2,1704)	1:E:9:ARG:H	1:E:7:LEU:HD11	18	0.13
(2,1704)	1:E:9:ARG:H	1:E:7:LEU:HD12	18	0.13
(2,1704)	1:E:9:ARG:H	1:E:7:LEU:HD13	18	0.13
(2,1679)	1:E:6:TYR:H	1:E:5:GLN:HA	5	0.13
(2,1679)	1:E:6:TYR:H	1:E:5:GLN:HA	12	0.13
(2,1650)	1:D:52:LEU:H	1:D:51:LEU:HA	4	0.13
(2,1650)	1:D:52:LEU:H	1:D:51:LEU:HA	6	0.13
(2,1650)	1:D:52:LEU:H	1:D:51:LEU:HA	9	0.13
(2,1650)	1:D:52:LEU:H	1:D:51:LEU:HA	11	0.13
(2,1650)	1:D:52:LEU:H	1:D:51:LEU:HA	12	0.13
(2,1650)	1:D:52:LEU:H	1:D:51:LEU:HA	16	0.13
(2,1650)	1:D:52:LEU:H	1:D:51:LEU:HA	20	0.13
(2,1631)	1:D:50:MET:H	1:D:50:MET:HB3	2	0.13
(2,1603)	1:D:47:ILE:H	1:D:47:ILE:HD11	14	0.13
(2,1603)	1:D:47:ILE:H	1:D:47:ILE:HD12	14	0.13
(2,1603)	1:D:47:ILE:H	1:D:47:ILE:HD13	14	0.13
(2,1578)	1:D:45:ILE:H	1:D:42:LEU:HA	14	0.13
(2,1566)	1:D:44:LEU:H	1:D:41:CYS:HB2	6	0.13
(2,1566)	1:D:44:LEU:H	1:D:41:CYS:HB3	6	0.13
(2,1566)	1:D:44:LEU:H	1:D:41:CYS:HB2	19	0.13
(2,1566)	1:D:44:LEU:H	1:D:41:CYS:HB3	19	0.13
(2,1477)	1:D:35:PHE:H	1:D:34:ASN:HA	17	0.13
(2,1474)	1:D:35:PHE:H	1:D:33:ILE:HB	13	0.13
(2,1468)	1:D:27:ASN:HD22	1:D:27:ASN:HB3	6	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1468)	1:D:27:ASN:HD22	1:D:27:ASN:HB3	12	0.13
(2,1468)	1:D:27:ASN:HD22	1:D:27:ASN:HB3	17	0.13
(2,1449)	1:D:32:PHE:H	1:D:31:LEU:HA	10	0.13
(2,1352)	1:D:17:THR:H	1:D:17:THR:HA	15	0.13
(2,1352)	1:D:17:THR:H	1:D:17:THR:HA	18	0.13
(2,1345)	1:D:16:SEP:H	1:D:15:ALA:HA	9	0.13
(2,1345)	1:D:16:SEP:H	1:D:15:ALA:HA	16	0.13
(2,1340)	1:D:15:ALA:H	1:D:14:ARG:HA	1	0.13
(2,1340)	1:D:15:ALA:H	1:D:14:ARG:HA	6	0.13
(2,1340)	1:D:15:ALA:H	1:D:14:ARG:HA	7	0.13
(2,1340)	1:D:15:ALA:H	1:D:14:ARG:HA	10	0.13
(2,1340)	1:D:15:ALA:H	1:D:14:ARG:HA	12	0.13
(2,1340)	1:D:15:ALA:H	1:D:14:ARG:HA	19	0.13
(2,1327)	1:D:13:ARG:H	1:D:12:ILE:HA	1	0.13
(2,1327)	1:D:13:ARG:H	1:D:12:ILE:HA	7	0.13
(2,1327)	1:D:13:ARG:H	1:D:12:ILE:HA	9	0.13
(2,1327)	1:D:13:ARG:H	1:D:12:ILE:HA	12	0.13
(2,1327)	1:D:13:ARG:H	1:D:12:ILE:HA	15	0.13
(2,1327)	1:D:13:ARG:H	1:D:12:ILE:HA	16	0.13
(2,1327)	1:D:13:ARG:H	1:D:12:ILE:HA	19	0.13
(2,1327)	1:D:13:ARG:H	1:D:12:ILE:HA	20	0.13
(2,1314)	1:D:12:ILE:H	1:D:9:ARG:HA	2	0.13
(2,1314)	1:D:12:ILE:H	1:D:9:ARG:HA	15	0.13
(2,1314)	1:D:12:ILE:H	1:D:9:ARG:HA	19	0.13
(2,1313)	1:D:12:ILE:H	1:D:11:ALA:HA	11	0.13
(2,1313)	1:D:12:ILE:H	1:D:11:ALA:HA	15	0.13
(2,1313)	1:D:12:ILE:H	1:D:11:ALA:HA	19	0.13
(2,1290)	1:D:9:ARG:H	1:D:7:LEU:HD11	18	0.13
(2,1290)	1:D:9:ARG:H	1:D:7:LEU:HD12	18	0.13
(2,1290)	1:D:9:ARG:H	1:D:7:LEU:HD13	18	0.13
(2,1265)	1:D:6:TYR:H	1:D:5:GLN:HA	5	0.13
(2,1265)	1:D:6:TYR:H	1:D:5:GLN:HA	12	0.13
(2,1236)	1:C:52:LEU:H	1:C:51:LEU:HA	4	0.13
(2,1236)	1:C:52:LEU:H	1:C:51:LEU:HA	11	0.13
(2,1236)	1:C:52:LEU:H	1:C:51:LEU:HA	12	0.13
(2,1236)	1:C:52:LEU:H	1:C:51:LEU:HA	16	0.13
(2,1217)	1:C:50:MET:H	1:C:50:MET:HB3	2	0.13
(2,1217)	1:C:50:MET:H	1:C:50:MET:HB3	10	0.13
(2,1217)	1:C:50:MET:H	1:C:50:MET:HB3	20	0.13
(2,1130)	1:C:42:LEU:H	1:C:39:LEU:HA	11	0.13
(2,1113)	1:C:40:ILE:H	1:C:37:LEU:HA	6	0.13
(2,110)	1:A:17:THR:H	1:A:17:THR:HA	15	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1098)	1:C:39:LEU:H	1:C:36:CYS:HA	7	0.13
(2,1063)	1:C:35:PHE:H	1:C:34:ASN:HA	6	0.13
(2,1063)	1:C:35:PHE:H	1:C:34:ASN:HA	16	0.13
(2,1063)	1:C:35:PHE:H	1:C:34:ASN:HA	20	0.13
(2,1060)	1:C:35:PHE:H	1:C:33:ILE:HB	6	0.13
(2,1054)	1:C:27:ASN:HD22	1:C:27:ASN:HB3	6	0.13
(2,1035)	1:C:32:PHE:H	1:C:31:LEU:HA	10	0.13
(2,103)	1:A:16:SEP:H	1:A:15:ALA:HA	9	0.13
(2,1022)	1:C:31:LEU:H	1:C:28:LEU:HA	2	0.13
(2,985)	1:C:27:ASN:H	1:C:25:ARG:H	15	0.12
(2,98)	1:A:15:ALA:H	1:A:14:ARG:HA	3	0.12
(2,98)	1:A:15:ALA:H	1:A:14:ARG:HA	5	0.12
(2,98)	1:A:15:ALA:H	1:A:14:ARG:HA	10	0.12
(2,98)	1:A:15:ALA:H	1:A:14:ARG:HA	11	0.12
(2,98)	1:A:15:ALA:H	1:A:14:ARG:HA	13	0.12
(2,98)	1:A:15:ALA:H	1:A:14:ARG:HA	15	0.12
(2,98)	1:A:15:ALA:H	1:A:14:ARG:HA	18	0.12
(2,955)	1:C:20:MET:H	1:C:18:ILE:HG12	7	0.12
(2,955)	1:C:20:MET:H	1:C:18:ILE:HG13	7	0.12
(2,952)	1:C:19:GLU:H	1:C:19:GLU:HA	15	0.12
(2,941)	1:C:18:ILE:H	1:C:17:THR:H	11	0.12
(2,939)	1:C:17:THR:H	1:C:17:THR:HG1	19	0.12
(2,939)	1:C:17:THR:H	1:C:17:THR:HG21	19	0.12
(2,939)	1:C:17:THR:H	1:C:17:THR:HG22	19	0.12
(2,939)	1:C:17:THR:H	1:C:17:THR:HG23	19	0.12
(2,938)	1:C:17:THR:H	1:C:17:THR:HA	11	0.12
(2,931)	1:C:16:SEP:H	1:C:15:ALA:HA	16	0.12
(2,926)	1:C:15:ALA:H	1:C:14:ARG:HA	3	0.12
(2,926)	1:C:15:ALA:H	1:C:14:ARG:HA	5	0.12
(2,926)	1:C:15:ALA:H	1:C:14:ARG:HA	13	0.12
(2,926)	1:C:15:ALA:H	1:C:14:ARG:HA	15	0.12
(2,926)	1:C:15:ALA:H	1:C:14:ARG:HA	18	0.12
(2,913)	1:C:13:ARG:H	1:C:12:ILE:HA	1	0.12
(2,913)	1:C:13:ARG:H	1:C:12:ILE:HA	2	0.12
(2,913)	1:C:13:ARG:H	1:C:12:ILE:HA	3	0.12
(2,913)	1:C:13:ARG:H	1:C:12:ILE:HA	5	0.12
(2,913)	1:C:13:ARG:H	1:C:12:ILE:HA	8	0.12
(2,913)	1:C:13:ARG:H	1:C:12:ILE:HA	9	0.12
(2,913)	1:C:13:ARG:H	1:C:12:ILE:HA	10	0.12
(2,913)	1:C:13:ARG:H	1:C:12:ILE:HA	11	0.12
(2,913)	1:C:13:ARG:H	1:C:12:ILE:HA	13	0.12
(2,913)	1:C:13:ARG:H	1:C:12:ILE:HA	14	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,913)	1:C:13:ARG:H	1:C:12:ILE:HA	17	0.12
(2,913)	1:C:13:ARG:H	1:C:12:ILE:HA	18	0.12
(2,913)	1:C:13:ARG:H	1:C:12:ILE:HA	19	0.12
(2,900)	1:C:12:ILE:H	1:C:9:ARG:HA	7	0.12
(2,900)	1:C:12:ILE:H	1:C:9:ARG:HA	11	0.12
(2,900)	1:C:12:ILE:H	1:C:9:ARG:HA	18	0.12
(2,900)	1:C:12:ILE:H	1:C:9:ARG:HA	19	0.12
(2,876)	1:C:9:ARG:H	1:C:7:LEU:HD11	2	0.12
(2,876)	1:C:9:ARG:H	1:C:7:LEU:HD12	2	0.12
(2,876)	1:C:9:ARG:H	1:C:7:LEU:HD13	2	0.12
(2,876)	1:C:9:ARG:H	1:C:7:LEU:HD11	5	0.12
(2,876)	1:C:9:ARG:H	1:C:7:LEU:HD12	5	0.12
(2,876)	1:C:9:ARG:H	1:C:7:LEU:HD13	5	0.12
(2,876)	1:C:9:ARG:H	1:C:7:LEU:HD11	11	0.12
(2,876)	1:C:9:ARG:H	1:C:7:LEU:HD12	11	0.12
(2,876)	1:C:9:ARG:H	1:C:7:LEU:HD13	11	0.12
(2,876)	1:C:9:ARG:H	1:C:7:LEU:HD11	15	0.12
(2,876)	1:C:9:ARG:H	1:C:7:LEU:HD12	15	0.12
(2,876)	1:C:9:ARG:H	1:C:7:LEU:HD13	15	0.12
(2,876)	1:C:9:ARG:H	1:C:7:LEU:HD11	19	0.12
(2,876)	1:C:9:ARG:H	1:C:7:LEU:HD12	19	0.12
(2,876)	1:C:9:ARG:H	1:C:7:LEU:HD13	19	0.12
(2,85)	1:A:13:ARG:H	1:A:12:ILE:HA	2	0.12
(2,85)	1:A:13:ARG:H	1:A:12:ILE:HA	3	0.12
(2,85)	1:A:13:ARG:H	1:A:12:ILE:HA	5	0.12
(2,85)	1:A:13:ARG:H	1:A:12:ILE:HA	8	0.12
(2,85)	1:A:13:ARG:H	1:A:12:ILE:HA	9	0.12
(2,85)	1:A:13:ARG:H	1:A:12:ILE:HA	10	0.12
(2,85)	1:A:13:ARG:H	1:A:12:ILE:HA	11	0.12
(2,85)	1:A:13:ARG:H	1:A:12:ILE:HA	12	0.12
(2,85)	1:A:13:ARG:H	1:A:12:ILE:HA	13	0.12
(2,85)	1:A:13:ARG:H	1:A:12:ILE:HA	14	0.12
(2,85)	1:A:13:ARG:H	1:A:12:ILE:HA	17	0.12
(2,85)	1:A:13:ARG:H	1:A:12:ILE:HA	18	0.12
(2,85)	1:A:13:ARG:H	1:A:12:ILE:HA	19	0.12
(2,822)	1:B:52:LEU:H	1:B:51:LEU:HA	2	0.12
(2,813)	1:B:51:LEU:H	1:B:51:LEU:HA	3	0.12
(2,72)	1:A:12:ILE:H	1:A:9:ARG:HA	7	0.12
(2,72)	1:A:12:ILE:H	1:A:9:ARG:HA	11	0.12
(2,716)	1:B:42:LEU:H	1:B:39:LEU:HA	20	0.12
(2,646)	1:B:35:PHE:H	1:B:33:ILE:HB	15	0.12
(2,646)	1:B:35:PHE:H	1:B:33:ILE:HB	17	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,640)	1:B:27:ASN:HD22	1:B:27:ASN:HB3	5	0.12
(2,640)	1:B:27:ASN:HD22	1:B:27:ASN:HB3	6	0.12
(2,640)	1:B:27:ASN:HD22	1:B:27:ASN:HB3	10	0.12
(2,640)	1:B:27:ASN:HD22	1:B:27:ASN:HB3	17	0.12
(2,621)	1:B:32:PHE:H	1:B:31:LEU:HA	10	0.12
(2,571)	1:B:27:ASN:H	1:B:25:ARG:H	15	0.12
(2,525)	1:B:17:THR:H	1:B:17:THR:HG1	19	0.12
(2,525)	1:B:17:THR:H	1:B:17:THR:HG21	19	0.12
(2,525)	1:B:17:THR:H	1:B:17:THR:HG22	19	0.12
(2,525)	1:B:17:THR:H	1:B:17:THR:HG23	19	0.12
(2,524)	1:B:17:THR:H	1:B:17:THR:HA	11	0.12
(2,512)	1:B:15:ALA:H	1:B:14:ARG:HA	3	0.12
(2,512)	1:B:15:ALA:H	1:B:14:ARG:HA	5	0.12
(2,512)	1:B:15:ALA:H	1:B:14:ARG:HA	13	0.12
(2,512)	1:B:15:ALA:H	1:B:14:ARG:HA	15	0.12
(2,499)	1:B:13:ARG:H	1:B:12:ILE:HA	3	0.12
(2,499)	1:B:13:ARG:H	1:B:12:ILE:HA	5	0.12
(2,499)	1:B:13:ARG:H	1:B:12:ILE:HA	6	0.12
(2,499)	1:B:13:ARG:H	1:B:12:ILE:HA	8	0.12
(2,499)	1:B:13:ARG:H	1:B:12:ILE:HA	9	0.12
(2,499)	1:B:13:ARG:H	1:B:12:ILE:HA	10	0.12
(2,499)	1:B:13:ARG:H	1:B:12:ILE:HA	12	0.12
(2,499)	1:B:13:ARG:H	1:B:12:ILE:HA	13	0.12
(2,499)	1:B:13:ARG:H	1:B:12:ILE:HA	14	0.12
(2,499)	1:B:13:ARG:H	1:B:12:ILE:HA	17	0.12
(2,499)	1:B:13:ARG:H	1:B:12:ILE:HA	19	0.12
(2,486)	1:B:12:ILE:H	1:B:9:ARG:HA	14	0.12
(2,486)	1:B:12:ILE:H	1:B:9:ARG:HA	19	0.12
(2,48)	1:A:9:ARG:H	1:A:7:LEU:HD11	6	0.12
(2,48)	1:A:9:ARG:H	1:A:7:LEU:HD12	6	0.12
(2,48)	1:A:9:ARG:H	1:A:7:LEU:HD13	6	0.12
(2,48)	1:A:9:ARG:H	1:A:7:LEU:HD11	14	0.12
(2,48)	1:A:9:ARG:H	1:A:7:LEU:HD12	14	0.12
(2,48)	1:A:9:ARG:H	1:A:7:LEU:HD13	14	0.12
(2,48)	1:A:9:ARG:H	1:A:7:LEU:HD11	15	0.12
(2,48)	1:A:9:ARG:H	1:A:7:LEU:HD12	15	0.12
(2,48)	1:A:9:ARG:H	1:A:7:LEU:HD13	15	0.12
(2,48)	1:A:9:ARG:H	1:A:7:LEU:HD11	18	0.12
(2,48)	1:A:9:ARG:H	1:A:7:LEU:HD12	18	0.12
(2,48)	1:A:9:ARG:H	1:A:7:LEU:HD13	18	0.12
(2,48)	1:A:9:ARG:H	1:A:7:LEU:HD11	19	0.12
(2,48)	1:A:9:ARG:H	1:A:7:LEU:HD12	19	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,48)	1:A:9:ARG:H	1:A:7:LEU:HD13	19	0.12
(2,462)	1:B:9:ARG:H	1:B:7:LEU:HD11	10	0.12
(2,462)	1:B:9:ARG:H	1:B:7:LEU:HD12	10	0.12
(2,462)	1:B:9:ARG:H	1:B:7:LEU:HD13	10	0.12
(2,462)	1:B:9:ARG:H	1:B:7:LEU:HD11	19	0.12
(2,462)	1:B:9:ARG:H	1:B:7:LEU:HD12	19	0.12
(2,462)	1:B:9:ARG:H	1:B:7:LEU:HD13	19	0.12
(2,410)	1:A:52:LEU:H	1:A:51:LEU:H	16	0.12
(2,408)	1:A:52:LEU:H	1:A:51:LEU:HA	2	0.12
(2,408)	1:A:52:LEU:H	1:A:51:LEU:HA	7	0.12
(2,408)	1:A:52:LEU:H	1:A:51:LEU:HA	20	0.12
(2,297)	1:A:42:LEU:H	1:A:39:LEU:HB2	8	0.12
(2,297)	1:A:42:LEU:H	1:A:39:LEU:HB3	8	0.12
(2,287)	1:A:39:LEU:H	1:A:35:PHE:HD1	11	0.12
(2,287)	1:A:39:LEU:H	1:A:35:PHE:HD2	11	0.12
(2,250)	1:A:37:LEU:H	1:A:34:ASN:HA	16	0.12
(2,232)	1:A:35:PHE:H	1:A:33:ILE:HB	8	0.12
(2,232)	1:A:35:PHE:H	1:A:33:ILE:HB	16	0.12
(2,226)	1:A:27:ASN:HD22	1:A:27:ASN:HB3	5	0.12
(2,226)	1:A:27:ASN:HD22	1:A:27:ASN:HB3	7	0.12
(2,226)	1:A:27:ASN:HD22	1:A:27:ASN:HB3	10	0.12
(2,2064)	1:E:52:LEU:H	1:E:51:LEU:HA	7	0.12
(2,2064)	1:E:52:LEU:H	1:E:51:LEU:HA	20	0.12
(2,1992)	1:E:45:ILE:H	1:E:42:LEU:HA	8	0.12
(2,1965)	1:E:43:LEU:H	1:E:40:ILE:HA	8	0.12
(2,1958)	1:E:42:LEU:H	1:E:39:LEU:HA	4	0.12
(2,1953)	1:E:42:LEU:H	1:E:39:LEU:HB2	8	0.12
(2,1953)	1:E:42:LEU:H	1:E:39:LEU:HB3	8	0.12
(2,1888)	1:E:35:PHE:H	1:E:33:ILE:HB	6	0.12
(2,1888)	1:E:35:PHE:H	1:E:33:ILE:HB	13	0.12
(2,1888)	1:E:35:PHE:H	1:E:33:ILE:HB	17	0.12
(2,1882)	1:E:27:ASN:HD22	1:E:27:ASN:HB3	5	0.12
(2,1882)	1:E:27:ASN:HD22	1:E:27:ASN:HB3	6	0.12
(2,1882)	1:E:27:ASN:HD22	1:E:27:ASN:HB3	7	0.12
(2,1882)	1:E:27:ASN:HD22	1:E:27:ASN:HB3	10	0.12
(2,1882)	1:E:27:ASN:HD22	1:E:27:ASN:HB3	15	0.12
(2,1769)	1:E:18:ILE:H	1:E:17:THR:H	11	0.12
(2,1766)	1:E:17:THR:H	1:E:17:THR:HA	11	0.12
(2,1759)	1:E:16:SEP:H	1:E:15:ALA:HA	16	0.12
(2,1754)	1:E:15:ALA:H	1:E:14:ARG:HA	3	0.12
(2,1754)	1:E:15:ALA:H	1:E:14:ARG:HA	5	0.12
(2,1754)	1:E:15:ALA:H	1:E:14:ARG:HA	13	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1754)	1:E:15:ALA:H	1:E:14:ARG:HA	15	0.12
(2,1754)	1:E:15:ALA:H	1:E:14:ARG:HA	18	0.12
(2,1754)	1:E:15:ALA:H	1:E:14:ARG:HA	19	0.12
(2,1741)	1:E:13:ARG:H	1:E:12:ILE:HA	2	0.12
(2,1741)	1:E:13:ARG:H	1:E:12:ILE:HA	3	0.12
(2,1741)	1:E:13:ARG:H	1:E:12:ILE:HA	5	0.12
(2,1741)	1:E:13:ARG:H	1:E:12:ILE:HA	8	0.12
(2,1741)	1:E:13:ARG:H	1:E:12:ILE:HA	11	0.12
(2,1741)	1:E:13:ARG:H	1:E:12:ILE:HA	13	0.12
(2,1741)	1:E:13:ARG:H	1:E:12:ILE:HA	14	0.12
(2,1741)	1:E:13:ARG:H	1:E:12:ILE:HA	17	0.12
(2,1741)	1:E:13:ARG:H	1:E:12:ILE:HA	18	0.12
(2,1741)	1:E:13:ARG:H	1:E:12:ILE:HA	19	0.12
(2,1728)	1:E:12:ILE:H	1:E:9:ARG:HA	7	0.12
(2,1728)	1:E:12:ILE:H	1:E:9:ARG:HA	11	0.12
(2,1728)	1:E:12:ILE:H	1:E:9:ARG:HA	18	0.12
(2,1704)	1:E:9:ARG:H	1:E:7:LEU:HD11	2	0.12
(2,1704)	1:E:9:ARG:H	1:E:7:LEU:HD12	2	0.12
(2,1704)	1:E:9:ARG:H	1:E:7:LEU:HD13	2	0.12
(2,1704)	1:E:9:ARG:H	1:E:7:LEU:HD11	5	0.12
(2,1704)	1:E:9:ARG:H	1:E:7:LEU:HD12	5	0.12
(2,1704)	1:E:9:ARG:H	1:E:7:LEU:HD13	5	0.12
(2,1704)	1:E:9:ARG:H	1:E:7:LEU:HD11	10	0.12
(2,1704)	1:E:9:ARG:H	1:E:7:LEU:HD12	10	0.12
(2,1704)	1:E:9:ARG:H	1:E:7:LEU:HD13	10	0.12
(2,1704)	1:E:9:ARG:H	1:E:7:LEU:HD11	19	0.12
(2,1704)	1:E:9:ARG:H	1:E:7:LEU:HD12	19	0.12
(2,1704)	1:E:9:ARG:H	1:E:7:LEU:HD13	19	0.12
(2,1650)	1:D:52:LEU:H	1:D:51:LEU:HA	2	0.12
(2,1650)	1:D:52:LEU:H	1:D:51:LEU:HA	10	0.12
(2,1650)	1:D:52:LEU:H	1:D:51:LEU:HA	13	0.12
(2,1650)	1:D:52:LEU:H	1:D:51:LEU:HA	18	0.12
(2,1641)	1:D:51:LEU:H	1:D:51:LEU:HA	3	0.12
(2,157)	1:A:27:ASN:H	1:A:25:ARG:H	15	0.12
(2,1566)	1:D:44:LEU:H	1:D:41:CYS:HB2	14	0.12
(2,1566)	1:D:44:LEU:H	1:D:41:CYS:HB3	14	0.12
(2,1544)	1:D:42:LEU:H	1:D:39:LEU:HA	19	0.12
(2,1544)	1:D:42:LEU:H	1:D:39:LEU:HA	20	0.12
(2,1539)	1:D:42:LEU:H	1:D:39:LEU:HB2	8	0.12
(2,1539)	1:D:42:LEU:H	1:D:39:LEU:HB3	8	0.12
(2,1474)	1:D:35:PHE:H	1:D:33:ILE:HB	16	0.12
(2,1468)	1:D:27:ASN:HD22	1:D:27:ASN:HB3	5	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1468)	1:D:27:ASN:HD22	1:D:27:ASN:HB3	10	0.12
(2,1468)	1:D:27:ASN:HD22	1:D:27:ASN:HB3	15	0.12
(2,1468)	1:D:27:ASN:HD22	1:D:27:ASN:HB3	16	0.12
(2,1468)	1:D:27:ASN:HD22	1:D:27:ASN:HB3	18	0.12
(2,1436)	1:D:31:LEU:H	1:D:28:LEU:HA	2	0.12
(2,1366)	1:D:19:GLU:H	1:D:19:GLU:HA	15	0.12
(2,1355)	1:D:18:ILE:H	1:D:17:THR:H	11	0.12
(2,1353)	1:D:17:THR:H	1:D:17:THR:HG1	19	0.12
(2,1353)	1:D:17:THR:H	1:D:17:THR:HG21	19	0.12
(2,1353)	1:D:17:THR:H	1:D:17:THR:HG22	19	0.12
(2,1353)	1:D:17:THR:H	1:D:17:THR:HG23	19	0.12
(2,1352)	1:D:17:THR:H	1:D:17:THR:HA	11	0.12
(2,1340)	1:D:15:ALA:H	1:D:14:ARG:HA	3	0.12
(2,1340)	1:D:15:ALA:H	1:D:14:ARG:HA	5	0.12
(2,1340)	1:D:15:ALA:H	1:D:14:ARG:HA	13	0.12
(2,1340)	1:D:15:ALA:H	1:D:14:ARG:HA	15	0.12
(2,1340)	1:D:15:ALA:H	1:D:14:ARG:HA	18	0.12
(2,1327)	1:D:13:ARG:H	1:D:12:ILE:HA	2	0.12
(2,1327)	1:D:13:ARG:H	1:D:12:ILE:HA	3	0.12
(2,1327)	1:D:13:ARG:H	1:D:12:ILE:HA	5	0.12
(2,1327)	1:D:13:ARG:H	1:D:12:ILE:HA	6	0.12
(2,1327)	1:D:13:ARG:H	1:D:12:ILE:HA	8	0.12
(2,1327)	1:D:13:ARG:H	1:D:12:ILE:HA	10	0.12
(2,1327)	1:D:13:ARG:H	1:D:12:ILE:HA	11	0.12
(2,1327)	1:D:13:ARG:H	1:D:12:ILE:HA	13	0.12
(2,1327)	1:D:13:ARG:H	1:D:12:ILE:HA	14	0.12
(2,1327)	1:D:13:ARG:H	1:D:12:ILE:HA	17	0.12
(2,1327)	1:D:13:ARG:H	1:D:12:ILE:HA	18	0.12
(2,1314)	1:D:12:ILE:H	1:D:9:ARG:HA	7	0.12
(2,1314)	1:D:12:ILE:H	1:D:9:ARG:HA	11	0.12
(2,1314)	1:D:12:ILE:H	1:D:9:ARG:HA	14	0.12
(2,1314)	1:D:12:ILE:H	1:D:9:ARG:HA	18	0.12
(2,1290)	1:D:9:ARG:H	1:D:7:LEU:HD11	5	0.12
(2,1290)	1:D:9:ARG:H	1:D:7:LEU:HD12	5	0.12
(2,1290)	1:D:9:ARG:H	1:D:7:LEU:HD13	5	0.12
(2,1290)	1:D:9:ARG:H	1:D:7:LEU:HD11	10	0.12
(2,1290)	1:D:9:ARG:H	1:D:7:LEU:HD12	10	0.12
(2,1290)	1:D:9:ARG:H	1:D:7:LEU:HD13	10	0.12
(2,1290)	1:D:9:ARG:H	1:D:7:LEU:HD11	11	0.12
(2,1290)	1:D:9:ARG:H	1:D:7:LEU:HD12	11	0.12
(2,1290)	1:D:9:ARG:H	1:D:7:LEU:HD13	11	0.12
(2,128)	1:A:20:MET:H	1:A:19:GLU:HA	14	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1236)	1:C:52:LEU:H	1:C:51:LEU:HA	1	0.12
(2,1236)	1:C:52:LEU:H	1:C:51:LEU:HA	2	0.12
(2,1236)	1:C:52:LEU:H	1:C:51:LEU:HA	15	0.12
(2,1236)	1:C:52:LEU:H	1:C:51:LEU:HA	18	0.12
(2,1236)	1:C:52:LEU:H	1:C:51:LEU:HA	20	0.12
(2,1227)	1:C:51:LEU:H	1:C:51:LEU:HA	3	0.12
(2,1113)	1:C:40:ILE:H	1:C:37:LEU:HA	14	0.12
(2,111)	1:A:17:THR:H	1:A:17:THR:HG1	19	0.12
(2,111)	1:A:17:THR:H	1:A:17:THR:HG21	19	0.12
(2,111)	1:A:17:THR:H	1:A:17:THR:HG22	19	0.12
(2,111)	1:A:17:THR:H	1:A:17:THR:HG23	19	0.12
(2,1054)	1:C:27:ASN:HD22	1:C:27:ASN:HB3	5	0.12
(2,1054)	1:C:27:ASN:HD22	1:C:27:ASN:HB3	15	0.12
(2,1054)	1:C:27:ASN:HD22	1:C:27:ASN:HB3	16	0.12
(2,1054)	1:C:27:ASN:HD22	1:C:27:ASN:HB3	18	0.12
(2,103)	1:A:16:SEP:H	1:A:15:ALA:HA	16	0.12
(2,98)	1:A:15:ALA:H	1:A:14:ARG:HA	8	0.11
(2,956)	1:C:20:MET:H	1:C:19:GLU:HA	14	0.11
(2,939)	1:C:17:THR:H	1:C:17:THR:HG1	6	0.11
(2,939)	1:C:17:THR:H	1:C:17:THR:HG21	6	0.11
(2,939)	1:C:17:THR:H	1:C:17:THR:HG22	6	0.11
(2,939)	1:C:17:THR:H	1:C:17:THR:HG23	6	0.11
(2,938)	1:C:17:THR:H	1:C:17:THR:HA	2	0.11
(2,931)	1:C:16:SEP:H	1:C:15:ALA:HA	10	0.11
(2,926)	1:C:15:ALA:H	1:C:14:ARG:HA	8	0.11
(2,913)	1:C:13:ARG:H	1:C:12:ILE:HA	4	0.11
(2,876)	1:C:9:ARG:H	1:C:7:LEU:HD11	10	0.11
(2,876)	1:C:9:ARG:H	1:C:7:LEU:HD12	10	0.11
(2,876)	1:C:9:ARG:H	1:C:7:LEU:HD13	10	0.11
(2,85)	1:A:13:ARG:H	1:A:12:ILE:HA	4	0.11
(2,822)	1:B:52:LEU:H	1:B:51:LEU:HA	8	0.11
(2,822)	1:B:52:LEU:H	1:B:51:LEU:HA	13	0.11
(2,822)	1:B:52:LEU:H	1:B:51:LEU:HA	14	0.11
(2,822)	1:B:52:LEU:H	1:B:51:LEU:HA	20	0.11
(2,738)	1:B:44:LEU:H	1:B:41:CYS:HB2	10	0.11
(2,738)	1:B:44:LEU:H	1:B:41:CYS:HB3	10	0.11
(2,72)	1:A:12:ILE:H	1:A:9:ARG:HA	14	0.11
(2,72)	1:A:12:ILE:H	1:A:9:ARG:HA	19	0.11
(2,716)	1:B:42:LEU:H	1:B:39:LEU:HA	5	0.11
(2,646)	1:B:35:PHE:H	1:B:33:ILE:HB	9	0.11
(2,646)	1:B:35:PHE:H	1:B:33:ILE:HB	20	0.11
(2,641)	1:B:27:ASN:HD21	1:B:27:ASN:HD22	5	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,641)	1:B:27:ASN:HD21	1:B:27:ASN:HD22	6	0.11
(2,641)	1:B:27:ASN:HD21	1:B:27:ASN:HD22	10	0.11
(2,641)	1:B:27:ASN:HD21	1:B:27:ASN:HD22	13	0.11
(2,640)	1:B:27:ASN:HD22	1:B:27:ASN:HB3	7	0.11
(2,640)	1:B:27:ASN:HD22	1:B:27:ASN:HB3	15	0.11
(2,640)	1:B:27:ASN:HD22	1:B:27:ASN:HB3	18	0.11
(2,588)	1:B:30:ASN:HD21	1:B:30:ASN:HD22	1	0.11
(2,588)	1:B:30:ASN:HD21	1:B:30:ASN:HD22	8	0.11
(2,588)	1:B:30:ASN:HD21	1:B:30:ASN:HD22	11	0.11
(2,588)	1:B:30:ASN:HD21	1:B:30:ASN:HD22	19	0.11
(2,588)	1:B:30:ASN:HD21	1:B:30:ASN:HD22	20	0.11
(2,542)	1:B:20:MET:H	1:B:19:GLU:HA	14	0.11
(2,541)	1:B:20:MET:H	1:B:18:ILE:HG12	7	0.11
(2,541)	1:B:20:MET:H	1:B:18:ILE:HG13	7	0.11
(2,538)	1:B:19:GLU:H	1:B:19:GLU:HA	15	0.11
(2,527)	1:B:18:ILE:H	1:B:17:THR:H	11	0.11
(2,525)	1:B:17:THR:H	1:B:17:THR:HG1	6	0.11
(2,525)	1:B:17:THR:H	1:B:17:THR:HG21	6	0.11
(2,525)	1:B:17:THR:H	1:B:17:THR:HG22	6	0.11
(2,525)	1:B:17:THR:H	1:B:17:THR:HG23	6	0.11
(2,524)	1:B:17:THR:H	1:B:17:THR:HA	2	0.11
(2,517)	1:B:16:SEP:H	1:B:15:ALA:HA	10	0.11
(2,512)	1:B:15:ALA:H	1:B:14:ARG:HA	8	0.11
(2,512)	1:B:15:ALA:H	1:B:14:ARG:HA	18	0.11
(2,499)	1:B:13:ARG:H	1:B:12:ILE:HA	4	0.11
(2,486)	1:B:12:ILE:H	1:B:9:ARG:HA	7	0.11
(2,48)	1:A:9:ARG:H	1:A:7:LEU:HD11	2	0.11
(2,48)	1:A:9:ARG:H	1:A:7:LEU:HD12	2	0.11
(2,48)	1:A:9:ARG:H	1:A:7:LEU:HD13	2	0.11
(2,48)	1:A:9:ARG:H	1:A:7:LEU:HD11	5	0.11
(2,48)	1:A:9:ARG:H	1:A:7:LEU:HD12	5	0.11
(2,48)	1:A:9:ARG:H	1:A:7:LEU:HD13	5	0.11
(2,462)	1:B:9:ARG:H	1:B:7:LEU:HD11	5	0.11
(2,462)	1:B:9:ARG:H	1:B:7:LEU:HD12	5	0.11
(2,462)	1:B:9:ARG:H	1:B:7:LEU:HD13	5	0.11
(2,361)	1:A:47:ILE:H	1:A:47:ILE:HD11	2	0.11
(2,361)	1:A:47:ILE:H	1:A:47:ILE:HD12	2	0.11
(2,361)	1:A:47:ILE:H	1:A:47:ILE:HD13	2	0.11
(2,324)	1:A:44:LEU:H	1:A:41:CYS:HB2	16	0.11
(2,324)	1:A:44:LEU:H	1:A:41:CYS:HB3	16	0.11
(2,297)	1:A:42:LEU:H	1:A:39:LEU:HB2	7	0.11
(2,297)	1:A:42:LEU:H	1:A:39:LEU:HB3	7	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,270)	1:A:39:LEU:H	1:A:36:CYS:HA	1	0.11
(2,232)	1:A:35:PHE:H	1:A:33:ILE:HB	1	0.11
(2,232)	1:A:35:PHE:H	1:A:33:ILE:HB	12	0.11
(2,232)	1:A:35:PHE:H	1:A:33:ILE:HB	15	0.11
(2,227)	1:A:27:ASN:HD21	1:A:27:ASN:HD22	5	0.11
(2,227)	1:A:27:ASN:HD21	1:A:27:ASN:HD22	6	0.11
(2,227)	1:A:27:ASN:HD21	1:A:27:ASN:HD22	13	0.11
(2,227)	1:A:27:ASN:HD21	1:A:27:ASN:HD22	19	0.11
(2,226)	1:A:27:ASN:HD22	1:A:27:ASN:HB3	15	0.11
(2,226)	1:A:27:ASN:HD22	1:A:27:ASN:HB3	16	0.11
(2,226)	1:A:27:ASN:HD22	1:A:27:ASN:HB3	17	0.11
(2,226)	1:A:27:ASN:HD22	1:A:27:ASN:HB3	18	0.11
(2,2127)	1:C:47:ILE:CG2	1:B:44:LEU:CD2	8	0.11
(2,2064)	1:E:52:LEU:H	1:E:51:LEU:HA	13	0.11
(2,1980)	1:E:44:LEU:H	1:E:41:CYS:HB2	10	0.11
(2,1980)	1:E:44:LEU:H	1:E:41:CYS:HB3	10	0.11
(2,1980)	1:E:44:LEU:H	1:E:41:CYS:HB2	14	0.11
(2,1980)	1:E:44:LEU:H	1:E:41:CYS:HB3	14	0.11
(2,1980)	1:E:44:LEU:H	1:E:41:CYS:HB2	16	0.11
(2,1980)	1:E:44:LEU:H	1:E:41:CYS:HB3	16	0.11
(2,1980)	1:E:44:LEU:H	1:E:41:CYS:HB2	17	0.11
(2,1980)	1:E:44:LEU:H	1:E:41:CYS:HB3	17	0.11
(2,1958)	1:E:42:LEU:H	1:E:39:LEU:HA	20	0.11
(2,1946)	1:E:41:CYS:H	1:E:38:ILE:HA	11	0.11
(2,1943)	1:E:39:LEU:H	1:E:35:PHE:HD1	11	0.11
(2,1943)	1:E:39:LEU:H	1:E:35:PHE:HD2	11	0.11
(2,1941)	1:E:40:ILE:H	1:E:37:LEU:HA	7	0.11
(2,1926)	1:E:39:LEU:H	1:E:36:CYS:HA	7	0.11
(2,1888)	1:E:35:PHE:H	1:E:33:ILE:HB	2	0.11
(2,1888)	1:E:35:PHE:H	1:E:33:ILE:HB	8	0.11
(2,1883)	1:E:27:ASN:HD21	1:E:27:ASN:HD22	6	0.11
(2,1883)	1:E:27:ASN:HD21	1:E:27:ASN:HD22	13	0.11
(2,1883)	1:E:27:ASN:HD21	1:E:27:ASN:HD22	19	0.11
(2,1882)	1:E:27:ASN:HD22	1:E:27:ASN:HB3	18	0.11
(2,1830)	1:E:30:ASN:HD21	1:E:30:ASN:HD22	1	0.11
(2,1830)	1:E:30:ASN:HD21	1:E:30:ASN:HD22	4	0.11
(2,1830)	1:E:30:ASN:HD21	1:E:30:ASN:HD22	8	0.11
(2,1830)	1:E:30:ASN:HD21	1:E:30:ASN:HD22	14	0.11
(2,1830)	1:E:30:ASN:HD21	1:E:30:ASN:HD22	19	0.11
(2,1830)	1:E:30:ASN:HD21	1:E:30:ASN:HD22	20	0.11
(2,1780)	1:E:19:GLU:H	1:E:19:GLU:HA	15	0.11
(2,1767)	1:E:17:THR:H	1:E:17:THR:HG1	6	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1767)	1:E:17:THR:H	1:E:17:THR:HG21	6	0.11
(2,1767)	1:E:17:THR:H	1:E:17:THR:HG22	6	0.11
(2,1767)	1:E:17:THR:H	1:E:17:THR:HG23	6	0.11
(2,1767)	1:E:17:THR:H	1:E:17:THR:HG1	19	0.11
(2,1767)	1:E:17:THR:H	1:E:17:THR:HG21	19	0.11
(2,1767)	1:E:17:THR:H	1:E:17:THR:HG22	19	0.11
(2,1767)	1:E:17:THR:H	1:E:17:THR:HG23	19	0.11
(2,1766)	1:E:17:THR:H	1:E:17:THR:HA	2	0.11
(2,1759)	1:E:16:SEP:H	1:E:15:ALA:HA	10	0.11
(2,1754)	1:E:15:ALA:H	1:E:14:ARG:HA	8	0.11
(2,1741)	1:E:13:ARG:H	1:E:12:ILE:HA	4	0.11
(2,174)	1:A:30:ASN:HD21	1:A:30:ASN:HD22	1	0.11
(2,174)	1:A:30:ASN:HD21	1:A:30:ASN:HD22	4	0.11
(2,174)	1:A:30:ASN:HD21	1:A:30:ASN:HD22	11	0.11
(2,174)	1:A:30:ASN:HD21	1:A:30:ASN:HD22	19	0.11
(2,174)	1:A:30:ASN:HD21	1:A:30:ASN:HD22	20	0.11
(2,1728)	1:E:12:ILE:H	1:E:9:ARG:HA	19	0.11
(2,1650)	1:D:52:LEU:H	1:D:51:LEU:HA	15	0.11
(2,1544)	1:D:42:LEU:H	1:D:39:LEU:HA	5	0.11
(2,1527)	1:D:40:ILE:H	1:D:37:LEU:HA	6	0.11
(2,1474)	1:D:35:PHE:H	1:D:33:ILE:HB	1	0.11
(2,1474)	1:D:35:PHE:H	1:D:33:ILE:HB	2	0.11
(2,1474)	1:D:35:PHE:H	1:D:33:ILE:HB	15	0.11
(2,1474)	1:D:35:PHE:H	1:D:33:ILE:HB	20	0.11
(2,1469)	1:D:27:ASN:HD21	1:D:27:ASN:HD22	3	0.11
(2,1469)	1:D:27:ASN:HD21	1:D:27:ASN:HD22	5	0.11
(2,1469)	1:D:27:ASN:HD21	1:D:27:ASN:HD22	6	0.11
(2,1469)	1:D:27:ASN:HD21	1:D:27:ASN:HD22	13	0.11
(2,1469)	1:D:27:ASN:HD21	1:D:27:ASN:HD22	19	0.11
(2,1468)	1:D:27:ASN:HD22	1:D:27:ASN:HB3	7	0.11
(2,1416)	1:D:30:ASN:HD21	1:D:30:ASN:HD22	1	0.11
(2,1416)	1:D:30:ASN:HD21	1:D:30:ASN:HD22	4	0.11
(2,1416)	1:D:30:ASN:HD21	1:D:30:ASN:HD22	8	0.11
(2,1416)	1:D:30:ASN:HD21	1:D:30:ASN:HD22	14	0.11
(2,1416)	1:D:30:ASN:HD21	1:D:30:ASN:HD22	19	0.11
(2,1416)	1:D:30:ASN:HD21	1:D:30:ASN:HD22	20	0.11
(2,1370)	1:D:20:MET:H	1:D:19:GLU:HA	14	0.11
(2,1353)	1:D:17:THR:H	1:D:17:THR:HG1	6	0.11
(2,1353)	1:D:17:THR:H	1:D:17:THR:HG21	6	0.11
(2,1353)	1:D:17:THR:H	1:D:17:THR:HG22	6	0.11
(2,1353)	1:D:17:THR:H	1:D:17:THR:HG23	6	0.11
(2,1352)	1:D:17:THR:H	1:D:17:THR:HA	2	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1345)	1:D:16:SEP:H	1:D:15:ALA:HA	10	0.11
(2,1340)	1:D:15:ALA:H	1:D:14:ARG:HA	8	0.11
(2,1327)	1:D:13:ARG:H	1:D:12:ILE:HA	4	0.11
(2,1290)	1:D:9:ARG:H	1:D:7:LEU:HD11	2	0.11
(2,1290)	1:D:9:ARG:H	1:D:7:LEU:HD12	2	0.11
(2,1290)	1:D:9:ARG:H	1:D:7:LEU:HD13	2	0.11
(2,124)	1:A:19:GLU:H	1:A:19:GLU:HA	15	0.11
(2,1236)	1:C:52:LEU:H	1:C:51:LEU:HA	10	0.11
(2,1236)	1:C:52:LEU:H	1:C:51:LEU:HA	13	0.11
(2,1189)	1:C:47:ILE:H	1:C:47:ILE:HD11	2	0.11
(2,1189)	1:C:47:ILE:H	1:C:47:ILE:HD12	2	0.11
(2,1189)	1:C:47:ILE:H	1:C:47:ILE:HD13	2	0.11
(2,1137)	1:C:43:LEU:H	1:C:40:ILE:HA	8	0.11
(2,1130)	1:C:42:LEU:H	1:C:39:LEU:HA	5	0.11
(2,1130)	1:C:42:LEU:H	1:C:39:LEU:HA	20	0.11
(2,1125)	1:C:42:LEU:H	1:C:39:LEU:HB2	8	0.11
(2,1125)	1:C:42:LEU:H	1:C:39:LEU:HB3	8	0.11
(2,1115)	1:C:39:LEU:H	1:C:35:PHE:HD1	11	0.11
(2,1115)	1:C:39:LEU:H	1:C:35:PHE:HD2	11	0.11
(2,1113)	1:C:40:ILE:H	1:C:37:LEU:HA	16	0.11
(2,111)	1:A:17:THR:H	1:A:17:THR:HG1	6	0.11
(2,111)	1:A:17:THR:H	1:A:17:THR:HG21	6	0.11
(2,111)	1:A:17:THR:H	1:A:17:THR:HG22	6	0.11
(2,111)	1:A:17:THR:H	1:A:17:THR:HG23	6	0.11
(2,110)	1:A:17:THR:H	1:A:17:THR:HA	2	0.11
(2,1078)	1:C:37:LEU:H	1:C:34:ASN:HA	14	0.11
(2,1078)	1:C:37:LEU:H	1:C:34:ASN:HA	16	0.11
(2,1060)	1:C:35:PHE:H	1:C:33:ILE:HB	11	0.11
(2,1060)	1:C:35:PHE:H	1:C:33:ILE:HB	16	0.11
(2,1060)	1:C:35:PHE:H	1:C:33:ILE:HB	17	0.11
(2,1055)	1:C:27:ASN:HD21	1:C:27:ASN:HD22	4	0.11
(2,1055)	1:C:27:ASN:HD21	1:C:27:ASN:HD22	5	0.11
(2,1055)	1:C:27:ASN:HD21	1:C:27:ASN:HD22	6	0.11
(2,1055)	1:C:27:ASN:HD21	1:C:27:ASN:HD22	13	0.11
(2,1055)	1:C:27:ASN:HD21	1:C:27:ASN:HD22	19	0.11
(2,1054)	1:C:27:ASN:HD22	1:C:27:ASN:HB3	7	0.11
(2,1054)	1:C:27:ASN:HD22	1:C:27:ASN:HB3	10	0.11
(2,1054)	1:C:27:ASN:HD22	1:C:27:ASN:HB3	17	0.11
(2,1002)	1:C:30:ASN:HD21	1:C:30:ASN:HD22	1	0.11
(2,1002)	1:C:30:ASN:HD21	1:C:30:ASN:HD22	4	0.11
(2,1002)	1:C:30:ASN:HD21	1:C:30:ASN:HD22	8	0.11
(2,1002)	1:C:30:ASN:HD21	1:C:30:ASN:HD22	14	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1002)	1:C:30:ASN:HD21	1:C:30:ASN:HD22	19	0.11
(2,1002)	1:C:30:ASN:HD21	1:C:30:ASN:HD22	20	0.11

10 Dihedral-angle violation analysis

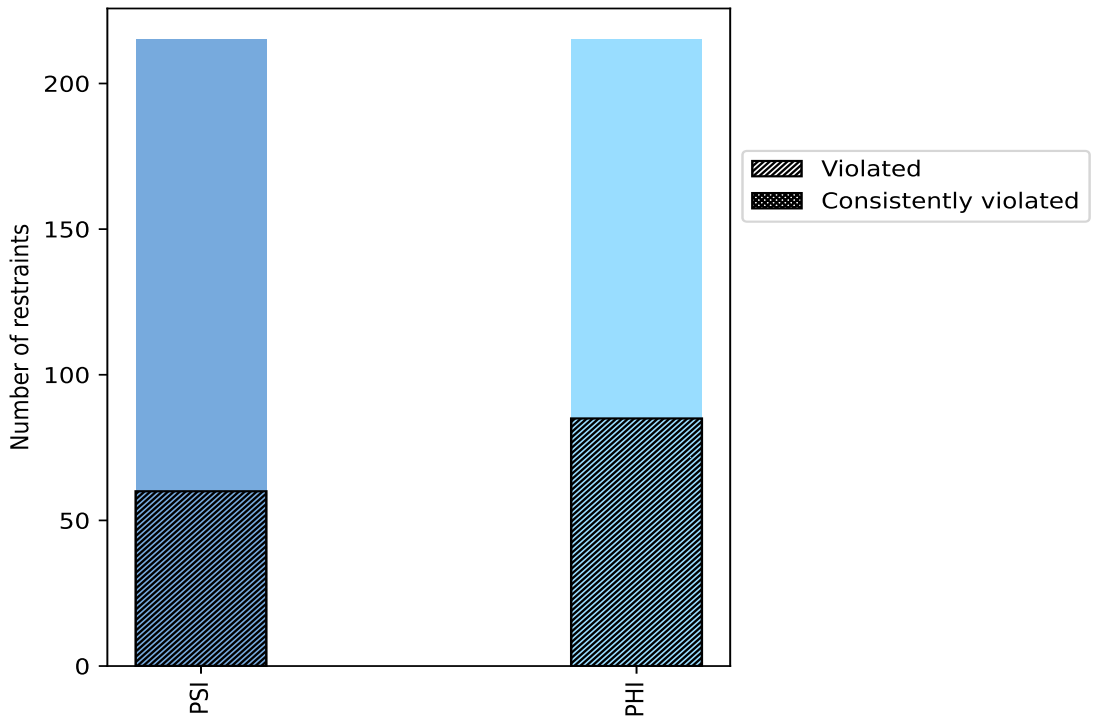
10.1 Summary of dihedral-angle violations

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

Angle type	Count	%[1]	Violated[3]			Consistently Violated[4]		
			Count	%[2]	%[1]	Count	%[2]	%[1]
PSI	215	50.0	60	27.9	14.0	0	0.0	0.0
PHI	215	50.0	85	39.5	19.8	0	0.0	0.0
Total	430	100.0	145	33.7	33.7	0	0.0	0.0

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

10.1.1 Bar chart : Distribution of dihedral-angles and violations



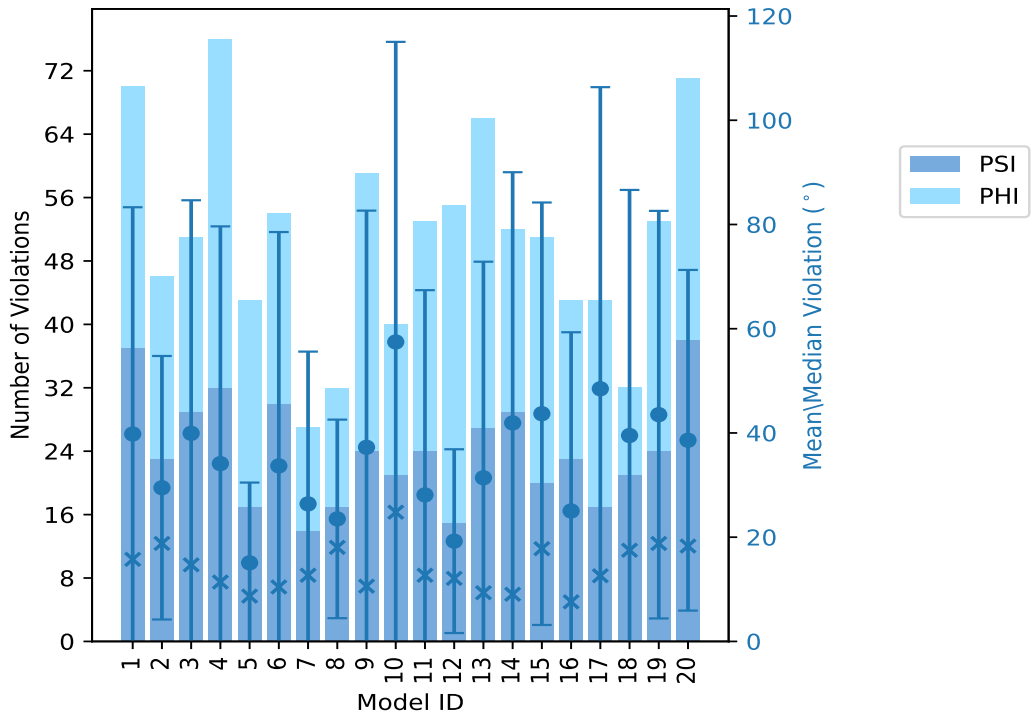
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

10.2 Dihedral-angle violation statistics for each model (i)

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

Model ID	Number of violations			Mean (°)	Max (°)	SD (°)	Median (°)
	PSI	PHI	Total				
1	37	33	70	39.8	131.5	43.51	15.75
2	23	23	46	29.49	78.4	25.28	18.8
3	29	22	51	39.93	120.3	44.72	14.7
4	32	44	76	34.12	165.5	45.52	11.4
5	17	26	43	15.08	42.6	15.4	8.7
6	30	24	54	33.68	136.7	44.87	10.45
7	14	13	27	26.39	78.5	29.22	12.7
8	17	15	32	23.51	64.4	19.05	18.05
9	24	35	59	37.25	155.3	45.41	10.6
10	21	19	40	57.46	153.6	57.58	24.8
11	24	29	53	28.11	126.0	39.29	12.7
12	15	40	55	19.24	64.4	17.63	12.1
13	27	39	66	31.4	123.9	41.46	9.35
14	29	23	52	41.92	131.8	48.11	9.05
15	20	31	51	43.69	114.2	40.53	17.8
16	23	20	43	25.03	100.1	34.29	7.6
17	17	26	43	48.48	168.1	57.87	12.6
18	21	11	32	39.51	144.3	47.12	17.5
19	24	29	53	43.51	116.7	39.1	18.8
20	38	33	71	38.6	91.8	32.68	18.3

10.2.1 Bar graph : Dihedral violation statistics for each model



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

10.3 Dihedral-angle violation statistics for the ensemble

Violation analysis may find that some restraints are violated in very few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of ensemble.

Number of violated restraints			Fraction of the ensemble	
PSI	PHI	Total	Count[1]	%
3	19	22	1	5.0
6	7	13	2	10.0
0	11	11	3	15.0
11	0	11	4	20.0
5	10	15	5	25.0
3	9	12	6	30.0
0	0	0	7	35.0
7	2	9	8	40.0
5	5	10	9	45.0
5	3	8	10	50.0
0	3	3	11	55.0

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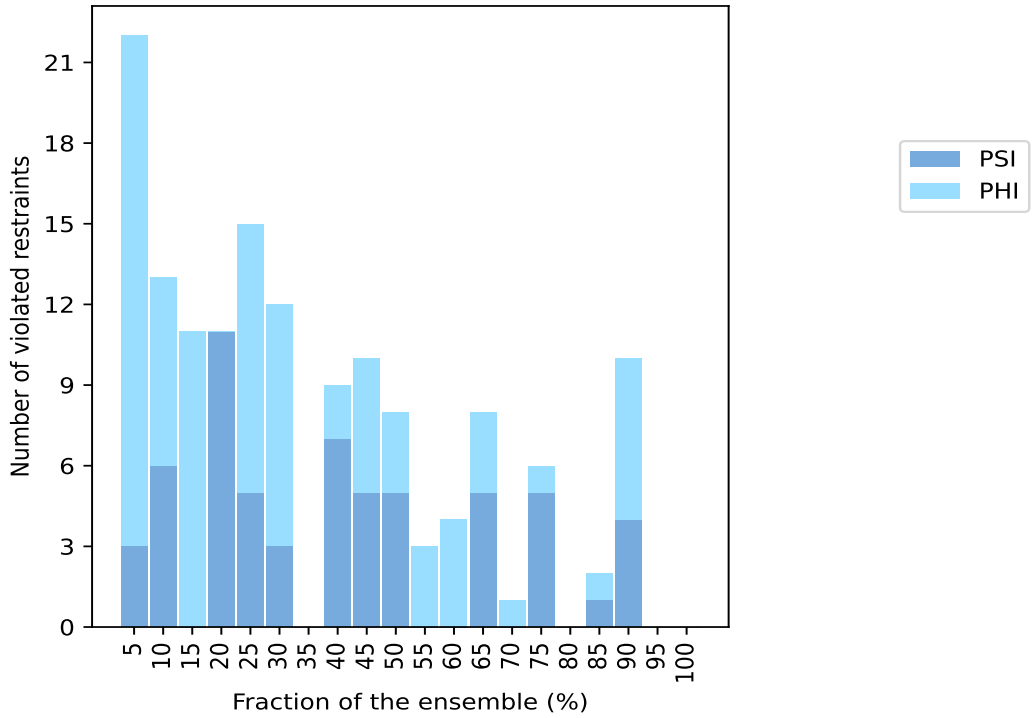
Number of violated restraints			Fraction of the ensemble	
PSI	PHI	Total	Count[1]	%
0	4	4	12	60.0
5	3	8	13	65.0
0	1	1	14	70.0
5	1	6	15	75.0
0	0	0	16	80.0
1	1	2	17	85.0
4	6	10	18	90.0
0	0	0	19	95.0
0	0	0	20	100.0

[1] Number of models with violations

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

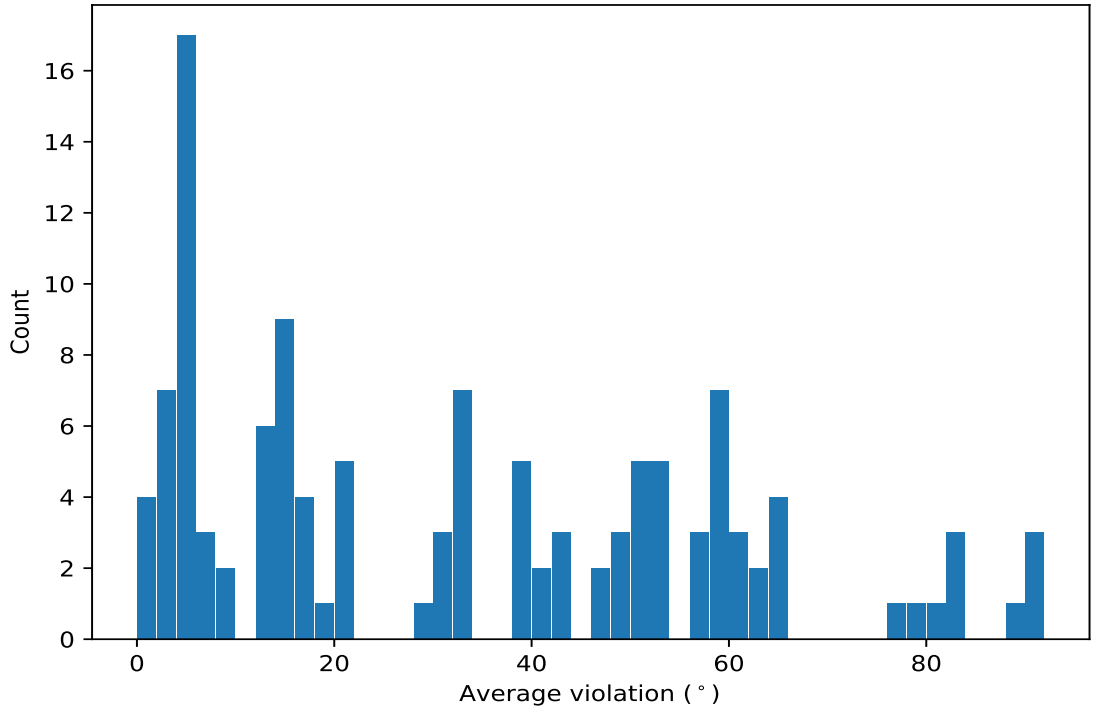


10.4 Most violated dihedral-angle restraints in the ensemble

10.4.1 Histogram : Distribution of mean dihedral-angle violations

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

in the ensemble



10.4.2 Table: Most violated dihedral-angle restraints

The following table provides the mean and the standard deviation of the violation for each restraint sorted by number of violated models and the mean value. The Key (restraint list ID, restraint ID) is the unique identifier for a given restraint.

Key	Atom-1	Atom-2	Atom-3	Atom-4	Models[1]	Mean	SD[2]	Median
(1,64)	1:A:24:ALA:N	1:A:24:ALA:CA	1:A:24:ALA:C	1:A:25:ARG:N	18	83.03	53.48	87.1
(1,236)	1:C:24:ALA:N	1:C:24:ALA:CA	1:C:24:ALA:C	1:C:25:ARG:N	18	82.59	54.22	86.25
(1,408)	1:E:24:ALA:N	1:E:24:ALA:CA	1:E:24:ALA:C	1:E:25:ARG:N	18	78.01	56.41	70.65
(1,322)	1:D:24:ALA:N	1:D:24:ALA:CA	1:D:24:ALA:C	1:D:25:ARG:N	18	77.73	56.12	71.4
(1,16)	1:A:16:SEP:C	1:A:17:THR:N	1:A:17:THR:CA	1:A:17:THR:C	18	13.28	10.02	9.75
(1,274)	1:D:16:SEP:C	1:D:17:THR:N	1:D:17:THR:CA	1:D:17:THR:C	18	12.41	9.79	7.9
(1,102)	1:B:16:SEP:C	1:B:17:THR:N	1:B:17:THR:CA	1:B:17:THR:C	18	12.33	9.77	9.05
(1,360)	1:E:16:SEP:C	1:E:17:THR:N	1:E:17:THR:CA	1:E:17:THR:C	18	12.31	9.77	7.65
(1,188)	1:C:16:SEP:C	1:C:17:THR:N	1:C:17:THR:CA	1:C:17:THR:C	18	12.28	9.75	7.4
(1,387)	1:E:50:MET:C	1:E:51:LEU:N	1:E:51:LEU:CA	1:E:51:LEU:C	18	7.28	4.64	6.45
(1,150)	1:B:24:ALA:N	1:B:24:ALA:CA	1:B:24:ALA:C	1:B:25:ARG:N	17	82.21	55.47	77.1
(1,43)	1:A:50:MET:C	1:A:51:LEU:N	1:A:51:LEU:CA	1:A:51:LEU:C	17	7.55	4.71	5.8
(1,317)	1:D:17:THR:N	1:D:17:THR:CA	1:D:17:THR:C	1:D:18:ILE:N	15	51.19	39.71	42.3
(1,231)	1:C:17:THR:N	1:C:17:THR:CA	1:C:17:THR:C	1:C:18:ILE:N	15	51.15	39.87	41.6
(1,59)	1:A:17:THR:N	1:A:17:THR:CA	1:A:17:THR:C	1:A:18:ILE:N	15	51.08	39.81	42.4
(1,403)	1:E:17:THR:N	1:E:17:THR:CA	1:E:17:THR:C	1:E:18:ILE:N	15	51.05	39.76	41.8
(1,145)	1:B:17:THR:N	1:B:17:THR:CA	1:B:17:THR:C	1:B:18:ILE:N	15	50.93	39.55	41.8
(1,21)	1:A:23:GLN:C	1:A:24:ALA:N	1:A:24:ALA:CA	1:A:24:ALA:C	15	38.44	38.45	15.5
(1,279)	1:D:23:GLN:C	1:D:24:ALA:N	1:D:24:ALA:CA	1:D:24:ALA:C	14	41.0	38.42	22.3
(1,402)	1:E:16:SEP:N	1:E:16:SEP:CA	1:E:16:SEP:C	1:E:17:THR:N	13	48.38	51.99	13.8

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Models[1]	Mean	SD[2]	Median
(1,316)	1:D:16:SEP:N	1:D:16:SEP:CA	1:D:16:SEP:C	1:D:17:THR:N	13	48.22	51.89	14.2
(1,230)	1:C:16:SEP:N	1:C:16:SEP:CA	1:C:16:SEP:C	1:C:17:THR:N	13	48.18	51.96	13.8
(1,144)	1:B:16:SEP:N	1:B:16:SEP:CA	1:B:16:SEP:C	1:B:17:THR:N	13	47.86	51.97	14.2
(1,58)	1:A:16:SEP:N	1:A:16:SEP:CA	1:A:16:SEP:C	1:A:17:THR:N	13	46.68	52.92	14.0
(1,365)	1:E:23:GLN:C	1:E:24:ALA:N	1:E:24:ALA:CA	1:E:24:ALA:C	13	43.64	38.15	23.7
(1,107)	1:B:23:GLN:C	1:B:24:ALA:N	1:B:24:ALA:CA	1:B:24:ALA:C	13	43.6	37.37	23.5
(1,193)	1:C:23:GLN:C	1:C:24:ALA:N	1:C:24:ALA:CA	1:C:24:ALA:C	13	43.14	37.65	22.8
(1,276)	1:D:18:ILE:C	1:D:19:GLU:N	1:D:19:GLU:CA	1:D:19:GLU:C	12	20.66	27.43	15.25
(1,362)	1:E:18:ILE:C	1:E:19:GLU:N	1:E:19:GLU:CA	1:E:19:GLU:C	12	20.65	27.44	15.05
(1,190)	1:C:18:ILE:C	1:C:19:GLU:N	1:C:19:GLU:CA	1:C:19:GLU:C	12	20.55	27.55	15.0
(1,18)	1:A:18:ILE:C	1:A:19:GLU:N	1:A:19:GLU:CA	1:A:19:GLU:C	12	20.26	27.58	15.05
(1,104)	1:B:18:ILE:C	1:B:19:GLU:N	1:B:19:GLU:CA	1:B:19:GLU:C	11	21.95	28.43	16.0
(1,129)	1:B:50:MET:C	1:B:51:LEU:N	1:B:51:LEU:CA	1:B:51:LEU:C	11	5.23	4.15	3.8
(1,36)	1:A:42:LEU:C	1:A:43:LEU:N	1:A:43:LEU:CA	1:A:43:LEU:C	11	2.17	1.07	2.1
(1,326)	1:D:32:PHE:N	1:D:32:PHE:CA	1:D:32:PHE:C	1:D:33:ILE:N	10	5.97	2.32	6.55
(1,68)	1:A:32:PHE:N	1:A:32:PHE:CA	1:A:32:PHE:C	1:A:33:ILE:N	10	5.82	2.52	5.65
(1,154)	1:B:32:PHE:N	1:B:32:PHE:CA	1:B:32:PHE:C	1:B:33:ILE:N	10	5.81	2.48	5.4
(1,412)	1:E:32:PHE:N	1:E:32:PHE:CA	1:E:32:PHE:C	1:E:33:ILE:N	10	5.8	2.41	5.65
(1,240)	1:C:32:PHE:N	1:C:32:PHE:CA	1:C:32:PHE:C	1:C:33:ILE:N	10	5.41	2.11	4.6
(1,301)	1:D:50:MET:C	1:D:51:LEU:N	1:D:51:LEU:CA	1:D:51:LEU:C	10	4.22	2.52	3.4
(1,215)	1:C:50:MET:C	1:C:51:LEU:N	1:C:51:LEU:CA	1:C:51:LEU:C	10	4.03	2.39	3.55
(1,208)	1:C:42:LEU:C	1:C:43:LEU:N	1:C:43:LEU:CA	1:C:43:LEU:C	10	2.7	1.26	2.85
(1,235)	1:C:23:GLN:N	1:C:23:GLN:CA	1:C:23:GLN:C	1:C:24:ALA:N	9	63.3	46.3	54.1
(1,63)	1:A:23:GLN:N	1:A:23:GLN:CA	1:A:23:GLN:C	1:A:24:ALA:N	9	62.26	45.23	54.5
(1,321)	1:D:23:GLN:N	1:D:23:GLN:CA	1:D:23:GLN:C	1:D:24:ALA:N	9	60.87	45.03	53.4
(1,149)	1:B:23:GLN:N	1:B:23:GLN:CA	1:B:23:GLN:C	1:B:24:ALA:N	9	60.81	44.16	53.2
(1,407)	1:E:23:GLN:N	1:E:23:GLN:CA	1:E:23:GLN:C	1:E:24:ALA:N	9	60.78	44.26	53.5
(1,106)	1:B:22:GLN:C	1:B:23:GLN:N	1:B:23:GLN:CA	1:B:23:GLN:C	9	33.99	29.17	20.6
(1,192)	1:C:22:GLN:C	1:C:23:GLN:N	1:C:23:GLN:CA	1:C:23:GLN:C	9	33.51	29.04	21.1
(1,278)	1:D:22:GLN:C	1:D:23:GLN:N	1:D:23:GLN:CA	1:D:23:GLN:C	9	33.36	29.23	20.4
(1,364)	1:E:22:GLN:C	1:E:23:GLN:N	1:E:23:GLN:CA	1:E:23:GLN:C	9	33.27	28.97	20.9
(1,20)	1:A:22:GLN:C	1:A:23:GLN:N	1:A:23:GLN:CA	1:A:23:GLN:C	9	33.12	29.29	20.8
(1,147)	1:B:19:GLU:N	1:B:19:GLU:CA	1:B:19:GLU:C	1:B:20:MET:N	8	59.58	42.83	60.7
(1,233)	1:C:19:GLU:N	1:C:19:GLU:CA	1:C:19:GLU:C	1:C:20:MET:N	8	58.19	42.27	60.4
(1,61)	1:A:19:GLU:N	1:A:19:GLU:CA	1:A:19:GLU:C	1:A:20:MET:N	8	57.92	42.04	60.25
(1,319)	1:D:19:GLU:N	1:D:19:GLU:CA	1:D:19:GLU:C	1:D:20:MET:N	8	57.78	42.13	59.8
(1,405)	1:E:19:GLU:N	1:E:19:GLU:CA	1:E:19:GLU:C	1:E:20:MET:N	8	57.68	42.08	59.05
(1,245)	1:C:37:LEU:N	1:C:37:LEU:CA	1:C:37:LEU:C	1:C:38:ILE:N	8	18.19	1.38	18.3
(1,417)	1:E:37:LEU:N	1:E:37:LEU:CA	1:E:37:LEU:C	1:E:38:ILE:N	8	17.06	2.14	16.85
(1,203)	1:C:37:LEU:C	1:C:38:ILE:N	1:C:38:ILE:CA	1:C:38:ILE:C	8	14.44	1.01	14.8
(1,375)	1:E:37:LEU:C	1:E:38:ILE:N	1:E:38:ILE:CA	1:E:38:ILE:C	8	13.79	1.97	13.4
(1,57)	1:A:15:ALA:N	1:A:15:ALA:CA	1:A:15:ALA:C	1:A:16:SEP:N	6	80.4	24.87	82.05
(1,159)	1:B:37:LEU:N	1:B:37:LEU:CA	1:B:37:LEU:C	1:B:38:ILE:N	6	16.8	2.05	16.85
(1,361)	1:E:17:THR:C	1:E:18:ILE:N	1:E:18:ILE:CA	1:E:18:ILE:C	6	15.15	10.42	13.5
(1,117)	1:B:37:LEU:C	1:B:38:ILE:N	1:B:38:ILE:CA	1:B:38:ILE:C	6	15.02	0.93	14.95
(1,17)	1:A:17:THR:C	1:A:18:ILE:N	1:A:18:ILE:CA	1:A:18:ILE:C	6	14.97	10.28	13.05
(1,189)	1:C:17:THR:C	1:C:18:ILE:N	1:C:18:ILE:CA	1:C:18:ILE:C	6	14.88	10.29	12.85
(1,103)	1:B:17:THR:C	1:B:18:ILE:N	1:B:18:ILE:CA	1:B:18:ILE:C	6	14.88	10.41	12.6
(1,275)	1:D:17:THR:C	1:D:18:ILE:N	1:D:18:ILE:CA	1:D:18:ILE:C	6	14.82	10.34	12.85
(1,374)	1:E:36:CYS:C	1:E:37:LEU:N	1:E:37:LEU:CA	1:E:37:LEU:C	6	4.22	2.72	4.1
(1,247)	1:C:39:LEU:N	1:C:39:LEU:CA	1:C:39:LEU:C	1:C:40:ILE:N	6	2.55	1.01	2.7

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Models[1]	Mean	SD[2]	Median
(1,122)	1:B:42:LEU:C	1:B:43:LEU:N	1:B:43:LEU:CA	1:B:43:LEU:C	6	2.13	0.58	2.3
(1,294)	1:D:42:LEU:C	1:D:43:LEU:N	1:D:43:LEU:CA	1:D:43:LEU:C	6	1.8	0.63	1.55
(1,229)	1:C:15:ALA:N	1:C:15:ALA:CA	1:C:15:ALA:C	1:C:16:SEP:N	5	90.9	12.64	87.2
(1,401)	1:E:15:ALA:N	1:E:15:ALA:CA	1:E:15:ALA:C	1:E:16:SEP:N	5	90.66	12.87	86.5
(1,315)	1:D:15:ALA:N	1:D:15:ALA:CA	1:D:15:ALA:C	1:D:16:SEP:N	5	90.16	13.4	85.9
(1,143)	1:B:15:ALA:N	1:B:15:ALA:CA	1:B:15:ALA:C	1:B:16:SEP:N	5	89.68	13.99	87.7
(1,273)	1:D:15:ALA:C	1:D:16:SEP:N	1:D:16:SEP:CA	1:D:16:SEP:C	5	65.04	38.74	74.2
(1,187)	1:C:15:ALA:C	1:C:16:SEP:N	1:C:16:SEP:CA	1:C:16:SEP:C	5	64.96	38.83	74.2
(1,359)	1:E:15:ALA:C	1:E:16:SEP:N	1:E:16:SEP:CA	1:E:16:SEP:C	5	64.92	38.84	74.2
(1,101)	1:B:15:ALA:C	1:B:16:SEP:N	1:B:16:SEP:CA	1:B:16:SEP:C	5	64.7	38.56	74.4
(1,191)	1:C:21:PRO:C	1:C:22:GLN:N	1:C:22:GLN:CA	1:C:22:GLN:C	5	40.18	37.32	12.9
(1,19)	1:A:21:PRO:C	1:A:22:GLN:N	1:A:22:GLN:CA	1:A:22:GLN:C	5	39.68	39.26	11.9
(1,363)	1:E:21:PRO:C	1:E:22:GLN:N	1:E:22:GLN:CA	1:E:22:GLN:C	5	39.54	40.05	11.5
(1,105)	1:B:21:PRO:C	1:B:22:GLN:N	1:B:22:GLN:CA	1:B:22:GLN:C	5	39.3	39.5	11.9
(1,277)	1:D:21:PRO:C	1:D:22:GLN:N	1:D:22:GLN:CA	1:D:22:GLN:C	5	38.82	40.31	9.8
(1,15)	1:A:15:ALA:C	1:A:16:SEP:N	1:A:16:SEP:CA	1:A:16:SEP:C	5	28.26	24.46	13.6
(1,419)	1:E:39:LEU:N	1:E:39:LEU:CA	1:E:39:LEU:C	1:E:40:ILE:N	5	2.08	0.42	1.9
(1,232)	1:C:18:ILE:N	1:C:18:ILE:CA	1:C:18:ILE:C	1:C:19:GLU:N	4	59.6	52.99	55.65
(1,404)	1:E:18:ILE:N	1:E:18:ILE:CA	1:E:18:ILE:C	1:E:19:GLU:N	4	59.38	52.83	55.1
(1,60)	1:A:18:ILE:N	1:A:18:ILE:CA	1:A:18:ILE:C	1:A:19:GLU:N	4	59.3	53.41	55.6
(1,146)	1:B:18:ILE:N	1:B:18:ILE:CA	1:B:18:ILE:C	1:B:19:GLU:N	4	59.08	53.07	54.4
(1,318)	1:D:18:ILE:N	1:D:18:ILE:CA	1:D:18:ILE:C	1:D:19:GLU:N	4	59.0	52.92	54.7
(1,406)	1:E:22:GLN:N	1:E:22:GLN:CA	1:E:22:GLN:C	1:E:23:GLN:N	4	32.12	29.51	22.2
(1,320)	1:D:22:GLN:N	1:D:22:GLN:CA	1:D:22:GLN:C	1:D:23:GLN:N	4	32.07	30.23	22.45
(1,148)	1:B:22:GLN:N	1:B:22:GLN:CA	1:B:22:GLN:C	1:B:23:GLN:N	4	31.98	30.08	21.1
(1,62)	1:A:22:GLN:N	1:A:22:GLN:CA	1:A:22:GLN:C	1:A:23:GLN:N	4	31.75	30.15	21.75
(1,234)	1:C:22:GLN:N	1:C:22:GLN:CA	1:C:22:GLN:C	1:C:23:GLN:N	4	31.58	30.31	21.25
(1,161)	1:B:39:LEU:N	1:B:39:LEU:CA	1:B:39:LEU:C	1:B:40:ILE:N	4	4.22	0.79	4.25
(1,100)	1:B:14:ARG:C	1:B:15:ALA:N	1:B:15:ALA:CA	1:B:15:ALA:C	3	53.1	12.73	51.1
(1,358)	1:E:14:ARG:C	1:E:15:ALA:N	1:E:15:ALA:CA	1:E:15:ALA:C	3	53.03	14.14	51.2
(1,14)	1:A:14:ARG:C	1:A:15:ALA:N	1:A:15:ALA:CA	1:A:15:ALA:C	3	53.0	13.97	51.3
(1,272)	1:D:14:ARG:C	1:D:15:ALA:N	1:D:15:ALA:CA	1:D:15:ALA:C	3	52.97	13.84	51.5
(1,186)	1:C:14:ARG:C	1:C:15:ALA:N	1:C:15:ALA:CA	1:C:15:ALA:C	3	52.17	13.73	49.9
(1,197)	1:C:31:LEU:C	1:C:32:PHE:N	1:C:32:PHE:CA	1:C:32:PHE:C	3	6.0	0.86	6.4
(1,369)	1:E:31:LEU:C	1:E:32:PHE:N	1:E:32:PHE:CA	1:E:32:PHE:C	3	5.83	1.11	6.3
(1,25)	1:A:31:LEU:C	1:A:32:PHE:N	1:A:32:PHE:CA	1:A:32:PHE:C	3	5.73	1.69	6.1
(1,283)	1:D:31:LEU:C	1:D:32:PHE:N	1:D:32:PHE:CA	1:D:32:PHE:C	3	5.67	0.48	5.9
(1,111)	1:B:31:LEU:C	1:B:32:PHE:N	1:B:32:PHE:CA	1:B:32:PHE:C	3	5.53	0.7	5.7
(1,202)	1:C:36:CYS:C	1:C:37:LEU:N	1:C:37:LEU:CA	1:C:37:LEU:C	3	5.47	2.97	7.1
(1,331)	1:D:37:LEU:N	1:D:37:LEU:CA	1:D:37:LEU:C	1:D:38:ILE:N	2	17.9	0.0	17.9
(1,73)	1:A:37:LEU:N	1:A:37:LEU:CA	1:A:37:LEU:C	1:A:38:ILE:N	2	16.35	2.15	16.35
(1,31)	1:A:37:LEU:C	1:A:38:ILE:N	1:A:38:ILE:CA	1:A:38:ILE:C	2	15.55	0.55	15.55
(1,289)	1:D:37:LEU:C	1:D:38:ILE:N	1:D:38:ILE:CA	1:D:38:ILE:C	2	14.05	0.15	14.05
(1,429)	1:E:50:MET:N	1:E:50:MET:CA	1:E:50:MET:C	1:E:51:LEU:N	2	9.45	5.85	9.45
(1,85)	1:A:50:MET:N	1:A:50:MET:CA	1:A:50:MET:C	1:A:51:LEU:N	2	8.2	6.6	8.2
(1,288)	1:D:36:CYS:C	1:D:37:LEU:N	1:D:37:LEU:CA	1:D:37:LEU:C	2	4.75	2.45	4.75
(1,416)	1:E:36:CYS:N	1:E:36:CYS:CA	1:E:36:CYS:C	1:E:37:LEU:N	2	4.1	0.1	4.1
(1,244)	1:C:36:CYS:N	1:C:36:CYS:CA	1:C:36:CYS:C	1:C:37:LEU:N	2	3.75	0.65	3.75
(1,262)	1:D:4:VAL:C	1:D:5:GLN:N	1:D:5:GLN:CA	1:D:5:GLN:C	2	2.8	0.9	2.8
(1,367)	1:E:29:GLN:C	1:E:30:ASN:N	1:E:30:ASN:CA	1:E:30:ASN:C	2	1.8	0.2	1.8
(1,4)	1:A:4:VAL:C	1:A:5:GLN:N	1:A:5:GLN:CA	1:A:5:GLN:C	2	1.8	0.6	1.8

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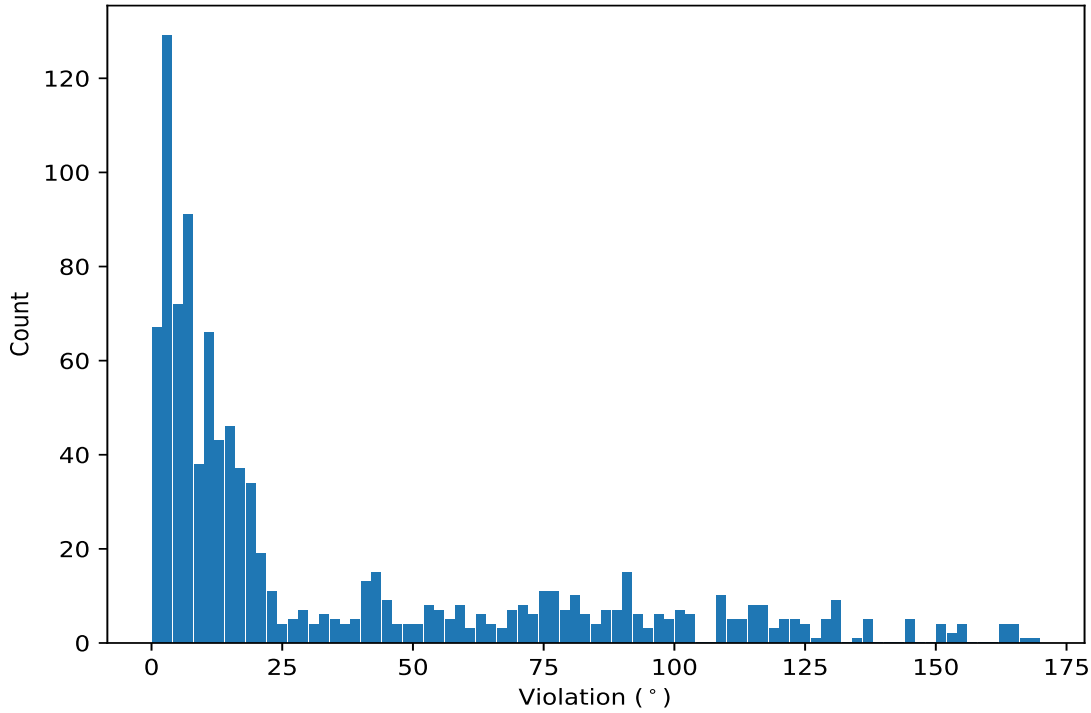
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models[1]	Mean	SD[2]	Median
(1,380)	1:E:42:LEU:C	1:E:43:LEU:N	1:E:43:LEU:CA	1:E:43:LEU:C	2	1.45	0.15	1.45

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

10.5 All violated dihedral-angle restraints

10.5.1 Histogram : Distribution of violations

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



10.5.2 Table: All violated dihedral-angle restraints

The following table lists the absolute value of the violation for each restraint in the ensemble sorted by its value. The Key (restraint list ID, restraint ID) is the unique identifier for a given restraint.

Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,150)	1:B:24:ALA:N	1:B:24:ALA:CA	1:B:24:ALA:C	1:B:25:ARG:N	17	168.1
(1,236)	1:C:24:ALA:N	1:C:24:ALA:CA	1:C:24:ALA:C	1:C:25:ARG:N	17	166.6
(1,64)	1:A:24:ALA:N	1:A:24:ALA:CA	1:A:24:ALA:C	1:A:25:ARG:N	4	165.5
(1,408)	1:E:24:ALA:N	1:E:24:ALA:CA	1:E:24:ALA:C	1:E:25:ARG:N	4	165.1
(1,236)	1:C:24:ALA:N	1:C:24:ALA:CA	1:C:24:ALA:C	1:C:25:ARG:N	4	165.0
(1,150)	1:B:24:ALA:N	1:B:24:ALA:CA	1:B:24:ALA:C	1:B:25:ARG:N	4	165.0

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,64)	1:A:24:ALA:N	1:A:24:ALA:CA	1:A:24:ALA:C	1:A:25:ARG:N	17	163.6
(1,408)	1:E:24:ALA:N	1:E:24:ALA:CA	1:E:24:ALA:C	1:E:25:ARG:N	17	163.4
(1,322)	1:D:24:ALA:N	1:D:24:ALA:CA	1:D:24:ALA:C	1:D:25:ARG:N	4	163.1
(1,322)	1:D:24:ALA:N	1:D:24:ALA:CA	1:D:24:ALA:C	1:D:25:ARG:N	17	162.3
(1,150)	1:B:24:ALA:N	1:B:24:ALA:CA	1:B:24:ALA:C	1:B:25:ARG:N	9	155.3
(1,408)	1:E:24:ALA:N	1:E:24:ALA:CA	1:E:24:ALA:C	1:E:25:ARG:N	9	154.6
(1,64)	1:A:24:ALA:N	1:A:24:ALA:CA	1:A:24:ALA:C	1:A:25:ARG:N	9	154.4
(1,236)	1:C:24:ALA:N	1:C:24:ALA:CA	1:C:24:ALA:C	1:C:25:ARG:N	9	154.4
(1,322)	1:D:24:ALA:N	1:D:24:ALA:CA	1:D:24:ALA:C	1:D:25:ARG:N	9	153.9
(1,58)	1:A:16:SEP:N	1:A:16:SEP:CA	1:A:16:SEP:C	1:A:17:THR:N	10	153.6
(1,402)	1:E:16:SEP:N	1:E:16:SEP:CA	1:E:16:SEP:C	1:E:17:THR:N	10	151.0
(1,316)	1:D:16:SEP:N	1:D:16:SEP:CA	1:D:16:SEP:C	1:D:17:THR:N	10	150.9
(1,230)	1:C:16:SEP:N	1:C:16:SEP:CA	1:C:16:SEP:C	1:C:17:THR:N	10	150.8
(1,144)	1:B:16:SEP:N	1:B:16:SEP:CA	1:B:16:SEP:C	1:B:17:THR:N	10	150.7
(1,405)	1:E:19:GLU:N	1:E:19:GLU:CA	1:E:19:GLU:C	1:E:20:MET:N	18	144.3
(1,233)	1:C:19:GLU:N	1:C:19:GLU:CA	1:C:19:GLU:C	1:C:20:MET:N	18	144.3
(1,147)	1:B:19:GLU:N	1:B:19:GLU:CA	1:B:19:GLU:C	1:B:20:MET:N	18	144.2
(1,319)	1:D:19:GLU:N	1:D:19:GLU:CA	1:D:19:GLU:C	1:D:20:MET:N	18	144.1
(1,61)	1:A:19:GLU:N	1:A:19:GLU:CA	1:A:19:GLU:C	1:A:20:MET:N	18	144.0
(1,322)	1:D:24:ALA:N	1:D:24:ALA:CA	1:D:24:ALA:C	1:D:25:ARG:N	6	136.7
(1,408)	1:E:24:ALA:N	1:E:24:ALA:CA	1:E:24:ALA:C	1:E:25:ARG:N	6	136.5
(1,64)	1:A:24:ALA:N	1:A:24:ALA:CA	1:A:24:ALA:C	1:A:25:ARG:N	6	136.2
(1,150)	1:B:24:ALA:N	1:B:24:ALA:CA	1:B:24:ALA:C	1:B:25:ARG:N	6	136.1
(1,236)	1:C:24:ALA:N	1:C:24:ALA:CA	1:C:24:ALA:C	1:C:25:ARG:N	6	136.0
(1,235)	1:C:23:GLN:N	1:C:23:GLN:CA	1:C:23:GLN:C	1:C:24:ALA:N	10	135.1
(1,150)	1:B:24:ALA:N	1:B:24:ALA:CA	1:B:24:ALA:C	1:B:25:ARG:N	14	131.8
(1,230)	1:C:16:SEP:N	1:C:16:SEP:CA	1:C:16:SEP:C	1:C:17:THR:N	1	131.5
(1,402)	1:E:16:SEP:N	1:E:16:SEP:CA	1:E:16:SEP:C	1:E:17:THR:N	1	131.3
(1,322)	1:D:24:ALA:N	1:D:24:ALA:CA	1:D:24:ALA:C	1:D:25:ARG:N	14	131.2
(1,236)	1:C:24:ALA:N	1:C:24:ALA:CA	1:C:24:ALA:C	1:C:25:ARG:N	14	131.1
(1,58)	1:A:16:SEP:N	1:A:16:SEP:CA	1:A:16:SEP:C	1:A:17:THR:N	1	131.0
(1,316)	1:D:16:SEP:N	1:D:16:SEP:CA	1:D:16:SEP:C	1:D:17:THR:N	1	131.0
(1,144)	1:B:16:SEP:N	1:B:16:SEP:CA	1:B:16:SEP:C	1:B:17:THR:N	1	131.0
(1,408)	1:E:24:ALA:N	1:E:24:ALA:CA	1:E:24:ALA:C	1:E:25:ARG:N	14	130.1
(1,64)	1:A:24:ALA:N	1:A:24:ALA:CA	1:A:24:ALA:C	1:A:25:ARG:N	14	129.4
(1,407)	1:E:23:GLN:N	1:E:23:GLN:CA	1:E:23:GLN:C	1:E:24:ALA:N	10	128.5
(1,63)	1:A:23:GLN:N	1:A:23:GLN:CA	1:A:23:GLN:C	1:A:24:ALA:N	10	128.2
(1,321)	1:D:23:GLN:N	1:D:23:GLN:CA	1:D:23:GLN:C	1:D:24:ALA:N	10	128.2
(1,149)	1:B:23:GLN:N	1:B:23:GLN:CA	1:B:23:GLN:C	1:B:24:ALA:N	10	128.1
(1,193)	1:C:23:GLN:C	1:C:24:ALA:N	1:C:24:ALA:CA	1:C:24:ALA:C	11	126.0
(1,365)	1:E:23:GLN:C	1:E:24:ALA:N	1:E:24:ALA:CA	1:E:24:ALA:C	11	125.9
(1,279)	1:D:23:GLN:C	1:D:24:ALA:N	1:D:24:ALA:CA	1:D:24:ALA:C	11	125.8
(1,21)	1:A:23:GLN:C	1:A:24:ALA:N	1:A:24:ALA:CA	1:A:24:ALA:C	11	125.7
(1,107)	1:B:23:GLN:C	1:B:24:ALA:N	1:B:24:ALA:CA	1:B:24:ALA:C	11	125.6
(1,318)	1:D:18:ILE:N	1:D:18:ILE:CA	1:D:18:ILE:C	1:D:19:GLU:N	13	123.9
(1,146)	1:B:18:ILE:N	1:B:18:ILE:CA	1:B:18:ILE:C	1:B:19:GLU:N	13	123.9
(1,60)	1:A:18:ILE:N	1:A:18:ILE:CA	1:A:18:ILE:C	1:A:19:GLU:N	13	123.8
(1,404)	1:E:18:ILE:N	1:E:18:ILE:CA	1:E:18:ILE:C	1:E:19:GLU:N	13	123.8
(1,232)	1:C:18:ILE:N	1:C:18:ILE:CA	1:C:18:ILE:C	1:C:19:GLU:N	13	123.7
(1,402)	1:E:16:SEP:N	1:E:16:SEP:CA	1:E:16:SEP:C	1:E:17:THR:N	3	120.3
(1,316)	1:D:16:SEP:N	1:D:16:SEP:CA	1:D:16:SEP:C	1:D:17:THR:N	3	120.1

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,144)	1:B:16:SEP:N	1:B:16:SEP:CA	1:B:16:SEP:C	1:B:17:THR:N	3	120.1
(1,58)	1:A:16:SEP:N	1:A:16:SEP:CA	1:A:16:SEP:C	1:A:17:THR:N	3	120.0
(1,230)	1:C:16:SEP:N	1:C:16:SEP:CA	1:C:16:SEP:C	1:C:17:THR:N	3	120.0
(1,403)	1:E:17:THR:N	1:E:17:THR:CA	1:E:17:THR:C	1:E:18:ILE:N	3	118.0
(1,317)	1:D:17:THR:N	1:D:17:THR:CA	1:D:17:THR:C	1:D:18:ILE:N	3	118.0
(1,231)	1:C:17:THR:N	1:C:17:THR:CA	1:C:17:THR:C	1:C:18:ILE:N	3	118.0
(1,59)	1:A:17:THR:N	1:A:17:THR:CA	1:A:17:THR:C	1:A:18:ILE:N	3	117.9
(1,322)	1:D:24:ALA:N	1:D:24:ALA:CA	1:D:24:ALA:C	1:D:25:ARG:N	19	116.7
(1,145)	1:B:17:THR:N	1:B:17:THR:CA	1:B:17:THR:C	1:B:18:ILE:N	3	116.6
(1,273)	1:D:15:ALA:C	1:D:16:SEP:N	1:D:16:SEP:CA	1:D:16:SEP:C	10	116.4
(1,187)	1:C:15:ALA:C	1:C:16:SEP:N	1:C:16:SEP:CA	1:C:16:SEP:C	10	116.4
(1,359)	1:E:15:ALA:C	1:E:16:SEP:N	1:E:16:SEP:CA	1:E:16:SEP:C	10	116.3
(1,101)	1:B:15:ALA:C	1:B:16:SEP:N	1:B:16:SEP:CA	1:B:16:SEP:C	10	116.3
(1,408)	1:E:24:ALA:N	1:E:24:ALA:CA	1:E:24:ALA:C	1:E:25:ARG:N	19	116.1
(1,63)	1:A:23:GLN:N	1:A:23:GLN:CA	1:A:23:GLN:C	1:A:24:ALA:N	17	114.8
(1,64)	1:A:24:ALA:N	1:A:24:ALA:CA	1:A:24:ALA:C	1:A:25:ARG:N	19	114.6
(1,145)	1:B:17:THR:N	1:B:17:THR:CA	1:B:17:THR:C	1:B:18:ILE:N	15	114.2
(1,321)	1:D:23:GLN:N	1:D:23:GLN:CA	1:D:23:GLN:C	1:D:24:ALA:N	17	114.1
(1,231)	1:C:17:THR:N	1:C:17:THR:CA	1:C:17:THR:C	1:C:18:ILE:N	15	114.1
(1,59)	1:A:17:THR:N	1:A:17:THR:CA	1:A:17:THR:C	1:A:18:ILE:N	15	114.0
(1,403)	1:E:17:THR:N	1:E:17:THR:CA	1:E:17:THR:C	1:E:18:ILE:N	15	114.0
(1,317)	1:D:17:THR:N	1:D:17:THR:CA	1:D:17:THR:C	1:D:18:ILE:N	15	114.0
(1,235)	1:C:23:GLN:N	1:C:23:GLN:CA	1:C:23:GLN:C	1:C:24:ALA:N	17	112.9
(1,407)	1:E:23:GLN:N	1:E:23:GLN:CA	1:E:23:GLN:C	1:E:24:ALA:N	17	112.6
(1,150)	1:B:24:ALA:N	1:B:24:ALA:CA	1:B:24:ALA:C	1:B:25:ARG:N	19	112.3
(1,149)	1:B:23:GLN:N	1:B:23:GLN:CA	1:B:23:GLN:C	1:B:24:ALA:N	17	112.3
(1,236)	1:C:24:ALA:N	1:C:24:ALA:CA	1:C:24:ALA:C	1:C:25:ARG:N	19	112.2
(1,150)	1:B:24:ALA:N	1:B:24:ALA:CA	1:B:24:ALA:C	1:B:25:ARG:N	13	111.5
(1,64)	1:A:24:ALA:N	1:A:24:ALA:CA	1:A:24:ALA:C	1:A:25:ARG:N	13	111.3
(1,236)	1:C:24:ALA:N	1:C:24:ALA:CA	1:C:24:ALA:C	1:C:25:ARG:N	13	111.0
(1,322)	1:D:24:ALA:N	1:D:24:ALA:CA	1:D:24:ALA:C	1:D:25:ARG:N	13	110.8
(1,408)	1:E:24:ALA:N	1:E:24:ALA:CA	1:E:24:ALA:C	1:E:25:ARG:N	13	110.6
(1,104)	1:B:18:ILE:C	1:B:19:GLU:N	1:B:19:GLU:CA	1:B:19:GLU:C	14	109.5
(1,190)	1:C:18:ILE:C	1:C:19:GLU:N	1:C:19:GLU:CA	1:C:19:GLU:C	14	109.4
(1,362)	1:E:18:ILE:C	1:E:19:GLU:N	1:E:19:GLU:CA	1:E:19:GLU:C	14	109.2
(1,18)	1:A:18:ILE:C	1:A:19:GLU:N	1:A:19:GLU:CA	1:A:19:GLU:C	14	109.2
(1,276)	1:D:18:ILE:C	1:D:19:GLU:N	1:D:19:GLU:CA	1:D:19:GLU:C	14	109.1
(1,143)	1:B:15:ALA:N	1:B:15:ALA:CA	1:B:15:ALA:C	1:B:16:SEP:N	1	108.9
(1,57)	1:A:15:ALA:N	1:A:15:ALA:CA	1:A:15:ALA:C	1:A:16:SEP:N	1	108.8
(1,401)	1:E:15:ALA:N	1:E:15:ALA:CA	1:E:15:ALA:C	1:E:16:SEP:N	1	108.7
(1,315)	1:D:15:ALA:N	1:D:15:ALA:CA	1:D:15:ALA:C	1:D:16:SEP:N	1	108.7
(1,229)	1:C:15:ALA:N	1:C:15:ALA:CA	1:C:15:ALA:C	1:C:16:SEP:N	1	108.6
(1,315)	1:D:15:ALA:N	1:D:15:ALA:CA	1:D:15:ALA:C	1:D:16:SEP:N	4	103.0
(1,401)	1:E:15:ALA:N	1:E:15:ALA:CA	1:E:15:ALA:C	1:E:16:SEP:N	4	102.8
(1,235)	1:C:23:GLN:N	1:C:23:GLN:CA	1:C:23:GLN:C	1:C:24:ALA:N	15	102.8
(1,57)	1:A:15:ALA:N	1:A:15:ALA:CA	1:A:15:ALA:C	1:A:16:SEP:N	4	102.7
(1,229)	1:C:15:ALA:N	1:C:15:ALA:CA	1:C:15:ALA:C	1:C:16:SEP:N	4	102.7
(1,143)	1:B:15:ALA:N	1:B:15:ALA:CA	1:B:15:ALA:C	1:B:16:SEP:N	4	102.0
(1,403)	1:E:17:THR:N	1:E:17:THR:CA	1:E:17:THR:C	1:E:18:ILE:N	1	100.5
(1,59)	1:A:17:THR:N	1:A:17:THR:CA	1:A:17:THR:C	1:A:18:ILE:N	1	100.4
(1,231)	1:C:17:THR:N	1:C:17:THR:CA	1:C:17:THR:C	1:C:18:ILE:N	1	100.4

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,145)	1:B:17:THR:N	1:B:17:THR:CA	1:B:17:THR:C	1:B:18:ILE:N	1	100.4
(1,317)	1:D:17:THR:N	1:D:17:THR:CA	1:D:17:THR:C	1:D:18:ILE:N	1	100.2
(1,60)	1:A:18:ILE:N	1:A:18:ILE:CA	1:A:18:ILE:C	1:A:19:GLU:N	16	100.1
(1,232)	1:C:18:ILE:N	1:C:18:ILE:CA	1:C:18:ILE:C	1:C:19:GLU:N	16	100.0
(1,236)	1:C:24:ALA:N	1:C:24:ALA:CA	1:C:24:ALA:C	1:C:25:ARG:N	15	99.2
(1,63)	1:A:23:GLN:N	1:A:23:GLN:CA	1:A:23:GLN:C	1:A:24:ALA:N	15	99.1
(1,404)	1:E:18:ILE:N	1:E:18:ILE:CA	1:E:18:ILE:C	1:E:19:GLU:N	16	99.0
(1,146)	1:B:18:ILE:N	1:B:18:ILE:CA	1:B:18:ILE:C	1:B:19:GLU:N	16	98.8
(1,318)	1:D:18:ILE:N	1:D:18:ILE:CA	1:D:18:ILE:C	1:D:19:GLU:N	16	98.2
(1,408)	1:E:24:ALA:N	1:E:24:ALA:CA	1:E:24:ALA:C	1:E:25:ARG:N	15	97.2
(1,64)	1:A:24:ALA:N	1:A:24:ALA:CA	1:A:24:ALA:C	1:A:25:ARG:N	16	96.8
(1,407)	1:E:23:GLN:N	1:E:23:GLN:CA	1:E:23:GLN:C	1:E:24:ALA:N	15	96.7
(1,64)	1:A:24:ALA:N	1:A:24:ALA:CA	1:A:24:ALA:C	1:A:25:ARG:N	15	96.6
(1,21)	1:A:23:GLN:C	1:A:24:ALA:N	1:A:24:ALA:CA	1:A:24:ALA:C	17	96.2
(1,236)	1:C:24:ALA:N	1:C:24:ALA:CA	1:C:24:ALA:C	1:C:25:ARG:N	16	96.0
(1,279)	1:D:23:GLN:C	1:D:24:ALA:N	1:D:24:ALA:CA	1:D:24:ALA:C	17	95.7
(1,149)	1:B:23:GLN:N	1:B:23:GLN:CA	1:B:23:GLN:C	1:B:24:ALA:N	15	94.5
(1,63)	1:A:23:GLN:N	1:A:23:GLN:CA	1:A:23:GLN:C	1:A:24:ALA:N	14	94.1
(1,321)	1:D:23:GLN:N	1:D:23:GLN:CA	1:D:23:GLN:C	1:D:24:ALA:N	15	93.8
(1,235)	1:C:23:GLN:N	1:C:23:GLN:CA	1:C:23:GLN:C	1:C:24:ALA:N	14	93.6
(1,321)	1:D:23:GLN:N	1:D:23:GLN:CA	1:D:23:GLN:C	1:D:24:ALA:N	14	93.5
(1,365)	1:E:23:GLN:C	1:E:24:ALA:N	1:E:24:ALA:CA	1:E:24:ALA:C	17	93.1
(1,322)	1:D:24:ALA:N	1:D:24:ALA:CA	1:D:24:ALA:C	1:D:25:ARG:N	15	92.8
(1,150)	1:B:24:ALA:N	1:B:24:ALA:CA	1:B:24:ALA:C	1:B:25:ARG:N	15	92.6
(1,359)	1:E:15:ALA:C	1:E:16:SEP:N	1:E:16:SEP:CA	1:E:16:SEP:C	11	91.8
(1,273)	1:D:15:ALA:C	1:D:16:SEP:N	1:D:16:SEP:CA	1:D:16:SEP:C	11	91.8
(1,187)	1:C:15:ALA:C	1:C:16:SEP:N	1:C:16:SEP:CA	1:C:16:SEP:C	11	91.8
(1,106)	1:B:22:GLN:C	1:B:23:GLN:N	1:B:23:GLN:CA	1:B:23:GLN:C	20	91.8
(1,278)	1:D:22:GLN:C	1:D:23:GLN:N	1:D:23:GLN:CA	1:D:23:GLN:C	20	91.7
(1,20)	1:A:22:GLN:C	1:A:23:GLN:N	1:A:23:GLN:CA	1:A:23:GLN:C	20	91.6
(1,364)	1:E:22:GLN:C	1:E:23:GLN:N	1:E:23:GLN:CA	1:E:23:GLN:C	20	91.5
(1,231)	1:C:17:THR:N	1:C:17:THR:CA	1:C:17:THR:C	1:C:18:ILE:N	19	91.5
(1,192)	1:C:22:GLN:C	1:C:23:GLN:N	1:C:23:GLN:CA	1:C:23:GLN:C	20	91.2
(1,363)	1:E:21:PRO:C	1:E:22:GLN:N	1:E:22:GLN:CA	1:E:22:GLN:C	6	90.9
(1,145)	1:B:17:THR:N	1:B:17:THR:CA	1:B:17:THR:C	1:B:18:ILE:N	19	90.6
(1,317)	1:D:17:THR:N	1:D:17:THR:CA	1:D:17:THR:C	1:D:18:ILE:N	19	90.4
(1,149)	1:B:23:GLN:N	1:B:23:GLN:CA	1:B:23:GLN:C	1:B:24:ALA:N	14	90.4
(1,101)	1:B:15:ALA:C	1:B:16:SEP:N	1:B:16:SEP:CA	1:B:16:SEP:C	11	90.2
(1,277)	1:D:21:PRO:C	1:D:22:GLN:N	1:D:22:GLN:CA	1:D:22:GLN:C	6	90.0
(1,59)	1:A:17:THR:N	1:A:17:THR:CA	1:A:17:THR:C	1:A:18:ILE:N	19	89.8
(1,191)	1:C:21:PRO:C	1:C:22:GLN:N	1:C:22:GLN:CA	1:C:22:GLN:C	6	89.8
(1,403)	1:E:17:THR:N	1:E:17:THR:CA	1:E:17:THR:C	1:E:18:ILE:N	19	89.6
(1,105)	1:B:21:PRO:C	1:B:22:GLN:N	1:B:22:GLN:CA	1:B:22:GLN:C	6	89.6
(1,19)	1:A:21:PRO:C	1:A:22:GLN:N	1:A:22:GLN:CA	1:A:22:GLN:C	6	89.5
(1,193)	1:C:23:GLN:C	1:C:24:ALA:N	1:C:24:ALA:CA	1:C:24:ALA:C	17	88.3
(1,107)	1:B:23:GLN:C	1:B:24:ALA:N	1:B:24:ALA:CA	1:B:24:ALA:C	17	88.1
(1,143)	1:B:15:ALA:N	1:B:15:ALA:CA	1:B:15:ALA:C	1:B:16:SEP:N	19	87.7
(1,229)	1:C:15:ALA:N	1:C:15:ALA:CA	1:C:15:ALA:C	1:C:16:SEP:N	19	87.2
(1,407)	1:E:23:GLN:N	1:E:23:GLN:CA	1:E:23:GLN:C	1:E:24:ALA:N	14	87.1
(1,401)	1:E:15:ALA:N	1:E:15:ALA:CA	1:E:15:ALA:C	1:E:16:SEP:N	19	86.5
(1,57)	1:A:15:ALA:N	1:A:15:ALA:CA	1:A:15:ALA:C	1:A:16:SEP:N	19	86.4

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,277)	1:D:21:PRO:C	1:D:22:GLN:N	1:D:22:GLN:CA	1:D:22:GLN:C	4	86.2
(1,363)	1:E:21:PRO:C	1:E:22:GLN:N	1:E:22:GLN:CA	1:E:22:GLN:C	4	86.0
(1,315)	1:D:15:ALA:N	1:D:15:ALA:CA	1:D:15:ALA:C	1:D:16:SEP:N	19	85.9
(1,19)	1:A:21:PRO:C	1:A:22:GLN:N	1:A:22:GLN:CA	1:A:22:GLN:C	4	85.8
(1,105)	1:B:21:PRO:C	1:B:22:GLN:N	1:B:22:GLN:CA	1:B:22:GLN:C	4	85.5
(1,147)	1:B:19:GLU:N	1:B:19:GLU:CA	1:B:19:GLU:C	1:B:20:MET:N	3	84.4
(1,279)	1:D:23:GLN:C	1:D:24:ALA:N	1:D:24:ALA:CA	1:D:24:ALA:C	20	83.3
(1,365)	1:E:23:GLN:C	1:E:24:ALA:N	1:E:24:ALA:CA	1:E:24:ALA:C	20	83.2
(1,21)	1:A:23:GLN:C	1:A:24:ALA:N	1:A:24:ALA:CA	1:A:24:ALA:C	20	83.2
(1,148)	1:B:22:GLN:N	1:B:22:GLN:CA	1:B:22:GLN:C	1:B:23:GLN:N	6	82.4
(1,234)	1:C:22:GLN:N	1:C:22:GLN:CA	1:C:22:GLN:C	1:C:23:GLN:N	6	82.2
(1,320)	1:D:22:GLN:N	1:D:22:GLN:CA	1:D:22:GLN:C	1:D:23:GLN:N	6	82.1
(1,62)	1:A:22:GLN:N	1:A:22:GLN:CA	1:A:22:GLN:C	1:A:23:GLN:N	6	81.9
(1,107)	1:B:23:GLN:C	1:B:24:ALA:N	1:B:24:ALA:CA	1:B:24:ALA:C	20	81.9
(1,191)	1:C:21:PRO:C	1:C:22:GLN:N	1:C:22:GLN:CA	1:C:22:GLN:C	4	81.4
(1,406)	1:E:22:GLN:N	1:E:22:GLN:CA	1:E:22:GLN:C	1:E:23:GLN:N	6	81.3
(1,144)	1:B:16:SEP:N	1:B:16:SEP:CA	1:B:16:SEP:C	1:B:17:THR:N	9	81.3
(1,193)	1:C:23:GLN:C	1:C:24:ALA:N	1:C:24:ALA:CA	1:C:24:ALA:C	20	81.2
(1,316)	1:D:16:SEP:N	1:D:16:SEP:CA	1:D:16:SEP:C	1:D:17:THR:N	9	80.7
(1,230)	1:C:16:SEP:N	1:C:16:SEP:CA	1:C:16:SEP:C	1:C:17:THR:N	9	80.7
(1,402)	1:E:16:SEP:N	1:E:16:SEP:CA	1:E:16:SEP:C	1:E:17:THR:N	9	80.4
(1,58)	1:A:16:SEP:N	1:A:16:SEP:CA	1:A:16:SEP:C	1:A:17:THR:N	9	80.3
(1,59)	1:A:17:THR:N	1:A:17:THR:CA	1:A:17:THR:C	1:A:18:ILE:N	7	78.5
(1,403)	1:E:17:THR:N	1:E:17:THR:CA	1:E:17:THR:C	1:E:18:ILE:N	7	78.4
(1,322)	1:D:24:ALA:N	1:D:24:ALA:CA	1:D:24:ALA:C	1:D:25:ARG:N	2	78.4
(1,317)	1:D:17:THR:N	1:D:17:THR:CA	1:D:17:THR:C	1:D:18:ILE:N	7	78.3
(1,231)	1:C:17:THR:N	1:C:17:THR:CA	1:C:17:THR:C	1:C:18:ILE:N	7	78.3
(1,229)	1:C:15:ALA:N	1:C:15:ALA:CA	1:C:15:ALA:C	1:C:16:SEP:N	13	78.0
(1,229)	1:C:15:ALA:N	1:C:15:ALA:CA	1:C:15:ALA:C	1:C:16:SEP:N	20	78.0
(1,315)	1:D:15:ALA:N	1:D:15:ALA:CA	1:D:15:ALA:C	1:D:16:SEP:N	13	77.9
(1,145)	1:B:17:THR:N	1:B:17:THR:CA	1:B:17:THR:C	1:B:18:ILE:N	7	77.9
(1,408)	1:E:24:ALA:N	1:E:24:ALA:CA	1:E:24:ALA:C	1:E:25:ARG:N	2	77.8
(1,401)	1:E:15:ALA:N	1:E:15:ALA:CA	1:E:15:ALA:C	1:E:16:SEP:N	13	77.8
(1,143)	1:B:15:ALA:N	1:B:15:ALA:CA	1:B:15:ALA:C	1:B:16:SEP:N	13	77.8
(1,57)	1:A:15:ALA:N	1:A:15:ALA:CA	1:A:15:ALA:C	1:A:16:SEP:N	13	77.7
(1,64)	1:A:24:ALA:N	1:A:24:ALA:CA	1:A:24:ALA:C	1:A:25:ARG:N	2	77.6
(1,401)	1:E:15:ALA:N	1:E:15:ALA:CA	1:E:15:ALA:C	1:E:16:SEP:N	20	77.5
(1,150)	1:B:24:ALA:N	1:B:24:ALA:CA	1:B:24:ALA:C	1:B:25:ARG:N	2	77.1
(1,233)	1:C:19:GLU:N	1:C:19:GLU:CA	1:C:19:GLU:C	1:C:20:MET:N	20	76.9
(1,236)	1:C:24:ALA:N	1:C:24:ALA:CA	1:C:24:ALA:C	1:C:25:ARG:N	2	76.5
(1,315)	1:D:15:ALA:N	1:D:15:ALA:CA	1:D:15:ALA:C	1:D:16:SEP:N	20	75.3
(1,319)	1:D:19:GLU:N	1:D:19:GLU:CA	1:D:19:GLU:C	1:D:20:MET:N	20	75.2
(1,147)	1:B:19:GLU:N	1:B:19:GLU:CA	1:B:19:GLU:C	1:B:20:MET:N	20	75.2
(1,61)	1:A:19:GLU:N	1:A:19:GLU:CA	1:A:19:GLU:C	1:A:20:MET:N	20	75.0
(1,405)	1:E:19:GLU:N	1:E:19:GLU:CA	1:E:19:GLU:C	1:E:20:MET:N	20	74.9
(1,57)	1:A:15:ALA:N	1:A:15:ALA:CA	1:A:15:ALA:C	1:A:16:SEP:N	20	74.7
(1,101)	1:B:15:ALA:C	1:B:16:SEP:N	1:B:16:SEP:CA	1:B:16:SEP:C	1	74.4
(1,15)	1:A:15:ALA:C	1:A:16:SEP:N	1:A:16:SEP:CA	1:A:16:SEP:C	1	74.3
(1,359)	1:E:15:ALA:C	1:E:16:SEP:N	1:E:16:SEP:CA	1:E:16:SEP:C	1	74.2
(1,273)	1:D:15:ALA:C	1:D:16:SEP:N	1:D:16:SEP:CA	1:D:16:SEP:C	1	74.2
(1,187)	1:C:15:ALA:C	1:C:16:SEP:N	1:C:16:SEP:CA	1:C:16:SEP:C	1	74.2

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,279)	1:D:23:GLN:C	1:D:24:ALA:N	1:D:24:ALA:CA	1:D:24:ALA:C	9	73.5
(1,193)	1:C:23:GLN:C	1:C:24:ALA:N	1:C:24:ALA:CA	1:C:24:ALA:C	9	73.2
(1,107)	1:B:23:GLN:C	1:B:24:ALA:N	1:B:24:ALA:CA	1:B:24:ALA:C	9	72.7
(1,365)	1:E:23:GLN:C	1:E:24:ALA:N	1:E:24:ALA:CA	1:E:24:ALA:C	9	72.2
(1,233)	1:C:19:GLU:N	1:C:19:GLU:CA	1:C:19:GLU:C	1:C:20:MET:N	3	72.2
(1,143)	1:B:15:ALA:N	1:B:15:ALA:CA	1:B:15:ALA:C	1:B:16:SEP:N	20	72.0
(1,61)	1:A:19:GLU:N	1:A:19:GLU:CA	1:A:19:GLU:C	1:A:20:MET:N	3	71.9
(1,405)	1:E:19:GLU:N	1:E:19:GLU:CA	1:E:19:GLU:C	1:E:20:MET:N	3	71.9
(1,21)	1:A:23:GLN:C	1:A:24:ALA:N	1:A:24:ALA:CA	1:A:24:ALA:C	9	71.9
(1,319)	1:D:19:GLU:N	1:D:19:GLU:CA	1:D:19:GLU:C	1:D:20:MET:N	3	71.8
(1,358)	1:E:14:ARG:C	1:E:15:ALA:N	1:E:15:ALA:CA	1:E:15:ALA:C	19	71.2
(1,14)	1:A:14:ARG:C	1:A:15:ALA:N	1:A:15:ALA:CA	1:A:15:ALA:C	19	70.9
(1,272)	1:D:14:ARG:C	1:D:15:ALA:N	1:D:15:ALA:CA	1:D:15:ALA:C	19	70.6
(1,186)	1:C:14:ARG:C	1:C:15:ALA:N	1:C:15:ALA:CA	1:C:15:ALA:C	19	70.0
(1,100)	1:B:14:ARG:C	1:B:15:ALA:N	1:B:15:ALA:CA	1:B:15:ALA:C	19	69.6
(1,59)	1:A:17:THR:N	1:A:17:THR:CA	1:A:17:THR:C	1:A:18:ILE:N	20	69.2
(1,403)	1:E:17:THR:N	1:E:17:THR:CA	1:E:17:THR:C	1:E:18:ILE:N	20	68.8
(1,317)	1:D:17:THR:N	1:D:17:THR:CA	1:D:17:THR:C	1:D:18:ILE:N	20	68.7
(1,231)	1:C:17:THR:N	1:C:17:THR:CA	1:C:17:THR:C	1:C:18:ILE:N	20	68.2
(1,233)	1:C:19:GLU:N	1:C:19:GLU:CA	1:C:19:GLU:C	1:C:20:MET:N	14	68.1
(1,147)	1:B:19:GLU:N	1:B:19:GLU:CA	1:B:19:GLU:C	1:B:20:MET:N	14	68.1
(1,61)	1:A:19:GLU:N	1:A:19:GLU:CA	1:A:19:GLU:C	1:A:20:MET:N	14	67.9
(1,319)	1:D:19:GLU:N	1:D:19:GLU:CA	1:D:19:GLU:C	1:D:20:MET:N	14	67.6
(1,145)	1:B:17:THR:N	1:B:17:THR:CA	1:B:17:THR:C	1:B:18:ILE:N	20	67.4
(1,405)	1:E:19:GLU:N	1:E:19:GLU:CA	1:E:19:GLU:C	1:E:20:MET:N	14	65.7
(1,322)	1:D:24:ALA:N	1:D:24:ALA:CA	1:D:24:ALA:C	1:D:25:ARG:N	8	64.4
(1,107)	1:B:23:GLN:C	1:B:24:ALA:N	1:B:24:ALA:CA	1:B:24:ALA:C	12	64.4
(1,21)	1:A:23:GLN:C	1:A:24:ALA:N	1:A:24:ALA:CA	1:A:24:ALA:C	12	64.1
(1,193)	1:C:23:GLN:C	1:C:24:ALA:N	1:C:24:ALA:CA	1:C:24:ALA:C	12	63.9
(1,408)	1:E:24:ALA:N	1:E:24:ALA:CA	1:E:24:ALA:C	1:E:25:ARG:N	8	63.5
(1,150)	1:B:24:ALA:N	1:B:24:ALA:CA	1:B:24:ALA:C	1:B:25:ARG:N	8	63.4
(1,365)	1:E:23:GLN:C	1:E:24:ALA:N	1:E:24:ALA:CA	1:E:24:ALA:C	12	63.0
(1,236)	1:C:24:ALA:N	1:C:24:ALA:CA	1:C:24:ALA:C	1:C:25:ARG:N	8	62.9
(1,64)	1:A:24:ALA:N	1:A:24:ALA:CA	1:A:24:ALA:C	1:A:25:ARG:N	8	62.4
(1,106)	1:B:22:GLN:C	1:B:23:GLN:N	1:B:23:GLN:CA	1:B:23:GLN:C	9	61.1
(1,279)	1:D:23:GLN:C	1:D:24:ALA:N	1:D:24:ALA:CA	1:D:24:ALA:C	12	60.3
(1,236)	1:C:24:ALA:N	1:C:24:ALA:CA	1:C:24:ALA:C	1:C:25:ARG:N	20	60.3
(1,192)	1:C:22:GLN:C	1:C:23:GLN:N	1:C:23:GLN:CA	1:C:23:GLN:C	15	59.5
(1,278)	1:D:22:GLN:C	1:D:23:GLN:N	1:D:23:GLN:CA	1:D:23:GLN:C	9	59.0
(1,150)	1:B:24:ALA:N	1:B:24:ALA:CA	1:B:24:ALA:C	1:B:25:ARG:N	20	58.9
(1,408)	1:E:24:ALA:N	1:E:24:ALA:CA	1:E:24:ALA:C	1:E:25:ARG:N	20	58.8
(1,192)	1:C:22:GLN:C	1:C:23:GLN:N	1:C:23:GLN:CA	1:C:23:GLN:C	9	58.7
(1,364)	1:E:22:GLN:C	1:E:23:GLN:N	1:E:23:GLN:CA	1:E:23:GLN:C	9	58.5
(1,64)	1:A:24:ALA:N	1:A:24:ALA:CA	1:A:24:ALA:C	1:A:25:ARG:N	20	58.4
(1,322)	1:D:24:ALA:N	1:D:24:ALA:CA	1:D:24:ALA:C	1:D:25:ARG:N	20	58.4
(1,20)	1:A:22:GLN:C	1:A:23:GLN:N	1:A:23:GLN:CA	1:A:23:GLN:C	15	57.8
(1,364)	1:E:22:GLN:C	1:E:23:GLN:N	1:E:23:GLN:CA	1:E:23:GLN:C	15	57.6
(1,20)	1:A:22:GLN:C	1:A:23:GLN:N	1:A:23:GLN:CA	1:A:23:GLN:C	9	57.0
(1,106)	1:B:22:GLN:C	1:B:23:GLN:N	1:B:23:GLN:CA	1:B:23:GLN:C	15	56.7
(1,278)	1:D:22:GLN:C	1:D:23:GLN:N	1:D:23:GLN:CA	1:D:23:GLN:C	15	56.6
(1,59)	1:A:17:THR:N	1:A:17:THR:CA	1:A:17:THR:C	1:A:18:ILE:N	2	55.8

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,403)	1:E:17:THR:N	1:E:17:THR:CA	1:E:17:THR:C	1:E:18:ILE:N	2	55.8
(1,317)	1:D:17:THR:N	1:D:17:THR:CA	1:D:17:THR:C	1:D:18:ILE:N	2	55.6
(1,231)	1:C:17:THR:N	1:C:17:THR:CA	1:C:17:THR:C	1:C:18:ILE:N	2	55.6
(1,63)	1:A:23:GLN:N	1:A:23:GLN:CA	1:A:23:GLN:C	1:A:24:ALA:N	1	54.5
(1,145)	1:B:17:THR:N	1:B:17:THR:CA	1:B:17:THR:C	1:B:18:ILE:N	2	54.5
(1,235)	1:C:23:GLN:N	1:C:23:GLN:CA	1:C:23:GLN:C	1:C:24:ALA:N	1	54.1
(1,407)	1:E:23:GLN:N	1:E:23:GLN:CA	1:E:23:GLN:C	1:E:24:ALA:N	1	53.5
(1,321)	1:D:23:GLN:N	1:D:23:GLN:CA	1:D:23:GLN:C	1:D:24:ALA:N	1	53.4
(1,147)	1:B:19:GLU:N	1:B:19:GLU:CA	1:B:19:GLU:C	1:B:20:MET:N	2	53.3
(1,149)	1:B:23:GLN:N	1:B:23:GLN:CA	1:B:23:GLN:C	1:B:24:ALA:N	1	53.2
(1,233)	1:C:19:GLU:N	1:C:19:GLU:CA	1:C:19:GLU:C	1:C:20:MET:N	2	52.7
(1,61)	1:A:19:GLU:N	1:A:19:GLU:CA	1:A:19:GLU:C	1:A:20:MET:N	2	52.6
(1,405)	1:E:19:GLU:N	1:E:19:GLU:CA	1:E:19:GLU:C	1:E:20:MET:N	2	52.4
(1,319)	1:D:19:GLU:N	1:D:19:GLU:CA	1:D:19:GLU:C	1:D:20:MET:N	2	52.0
(1,272)	1:D:14:ARG:C	1:D:15:ALA:N	1:D:15:ALA:CA	1:D:15:ALA:C	4	51.5
(1,14)	1:A:14:ARG:C	1:A:15:ALA:N	1:A:15:ALA:CA	1:A:15:ALA:C	4	51.3
(1,358)	1:E:14:ARG:C	1:E:15:ALA:N	1:E:15:ALA:CA	1:E:15:ALA:C	4	51.2
(1,100)	1:B:14:ARG:C	1:B:15:ALA:N	1:B:15:ALA:CA	1:B:15:ALA:C	4	51.1
(1,186)	1:C:14:ARG:C	1:C:15:ALA:N	1:C:15:ALA:CA	1:C:15:ALA:C	4	49.9
(1,150)	1:B:24:ALA:N	1:B:24:ALA:CA	1:B:24:ALA:C	1:B:25:ARG:N	3	49.0
(1,408)	1:E:24:ALA:N	1:E:24:ALA:CA	1:E:24:ALA:C	1:E:25:ARG:N	3	48.4
(1,64)	1:A:24:ALA:N	1:A:24:ALA:CA	1:A:24:ALA:C	1:A:25:ARG:N	3	48.1
(1,322)	1:D:24:ALA:N	1:D:24:ALA:CA	1:D:24:ALA:C	1:D:25:ARG:N	3	47.8
(1,236)	1:C:24:ALA:N	1:C:24:ALA:CA	1:C:24:ALA:C	1:C:25:ARG:N	3	47.5
(1,402)	1:E:16:SEP:N	1:E:16:SEP:CA	1:E:16:SEP:C	1:E:17:THR:N	18	47.2
(1,58)	1:A:16:SEP:N	1:A:16:SEP:CA	1:A:16:SEP:C	1:A:17:THR:N	18	47.1
(1,405)	1:E:19:GLU:N	1:E:19:GLU:CA	1:E:19:GLU:C	1:E:20:MET:N	7	45.7
(1,61)	1:A:19:GLU:N	1:A:19:GLU:CA	1:A:19:GLU:C	1:A:20:MET:N	7	45.2
(1,319)	1:D:19:GLU:N	1:D:19:GLU:CA	1:D:19:GLU:C	1:D:20:MET:N	7	45.0
(1,316)	1:D:16:SEP:N	1:D:16:SEP:CA	1:D:16:SEP:C	1:D:17:THR:N	18	44.7
(1,233)	1:C:19:GLU:N	1:C:19:GLU:CA	1:C:19:GLU:C	1:C:20:MET:N	7	44.6
(1,230)	1:C:16:SEP:N	1:C:16:SEP:CA	1:C:16:SEP:C	1:C:17:THR:N	18	44.6
(1,147)	1:B:19:GLU:N	1:B:19:GLU:CA	1:B:19:GLU:C	1:B:20:MET:N	7	44.6
(1,20)	1:A:22:GLN:C	1:A:23:GLN:N	1:A:23:GLN:CA	1:A:23:GLN:C	12	44.1
(1,106)	1:B:22:GLN:C	1:B:23:GLN:N	1:B:23:GLN:CA	1:B:23:GLN:C	12	44.1
(1,278)	1:D:22:GLN:C	1:D:23:GLN:N	1:D:23:GLN:CA	1:D:23:GLN:C	12	43.9
(1,322)	1:D:24:ALA:N	1:D:24:ALA:CA	1:D:24:ALA:C	1:D:25:ARG:N	10	42.7
(1,408)	1:E:24:ALA:N	1:E:24:ALA:CA	1:E:24:ALA:C	1:E:25:ARG:N	10	42.6
(1,274)	1:D:16:SEP:C	1:D:17:THR:N	1:D:17:THR:CA	1:D:17:THR:C	5	42.6
(1,16)	1:A:16:SEP:C	1:A:17:THR:N	1:A:17:THR:CA	1:A:17:THR:C	5	42.6
(1,102)	1:B:16:SEP:C	1:B:17:THR:N	1:B:17:THR:CA	1:B:17:THR:C	5	42.6
(1,64)	1:A:24:ALA:N	1:A:24:ALA:CA	1:A:24:ALA:C	1:A:25:ARG:N	10	42.5
(1,188)	1:C:16:SEP:C	1:C:17:THR:N	1:C:17:THR:CA	1:C:17:THR:C	5	42.5
(1,59)	1:A:17:THR:N	1:A:17:THR:CA	1:A:17:THR:C	1:A:18:ILE:N	5	42.4
(1,360)	1:E:16:SEP:C	1:E:17:THR:N	1:E:17:THR:CA	1:E:17:THR:C	5	42.4
(1,317)	1:D:17:THR:N	1:D:17:THR:CA	1:D:17:THR:C	1:D:18:ILE:N	5	42.3
(1,402)	1:E:16:SEP:N	1:E:16:SEP:CA	1:E:16:SEP:C	1:E:17:THR:N	11	42.2
(1,316)	1:D:16:SEP:N	1:D:16:SEP:CA	1:D:16:SEP:C	1:D:17:THR:N	11	42.1
(1,150)	1:B:24:ALA:N	1:B:24:ALA:CA	1:B:24:ALA:C	1:B:25:ARG:N	10	42.1
(1,230)	1:C:16:SEP:N	1:C:16:SEP:CA	1:C:16:SEP:C	1:C:17:THR:N	11	42.0
(1,63)	1:A:23:GLN:N	1:A:23:GLN:CA	1:A:23:GLN:C	1:A:24:ALA:N	16	41.8

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,403)	1:E:17:THR:N	1:E:17:THR:CA	1:E:17:THR:C	1:E:18:ILE:N	5	41.8
(1,145)	1:B:17:THR:N	1:B:17:THR:CA	1:B:17:THR:C	1:B:18:ILE:N	5	41.8
(1,144)	1:B:16:SEP:N	1:B:16:SEP:CA	1:B:16:SEP:C	1:B:17:THR:N	18	41.8
(1,235)	1:C:23:GLN:N	1:C:23:GLN:CA	1:C:23:GLN:C	1:C:24:ALA:N	16	41.7
(1,231)	1:C:17:THR:N	1:C:17:THR:CA	1:C:17:THR:C	1:C:18:ILE:N	5	41.6
(1,364)	1:E:22:GLN:C	1:E:23:GLN:N	1:E:23:GLN:CA	1:E:23:GLN:C	12	41.1
(1,21)	1:A:23:GLN:C	1:A:24:ALA:N	1:A:24:ALA:CA	1:A:24:ALA:C	19	41.1
(1,144)	1:B:16:SEP:N	1:B:16:SEP:CA	1:B:16:SEP:C	1:B:17:THR:N	11	40.8
(1,279)	1:D:23:GLN:C	1:D:24:ALA:N	1:D:24:ALA:CA	1:D:24:ALA:C	19	40.7
(1,193)	1:C:23:GLN:C	1:C:24:ALA:N	1:C:24:ALA:CA	1:C:24:ALA:C	19	40.6
(1,192)	1:C:22:GLN:C	1:C:23:GLN:N	1:C:23:GLN:CA	1:C:23:GLN:C	12	40.4
(1,107)	1:B:23:GLN:C	1:B:24:ALA:N	1:B:24:ALA:CA	1:B:24:ALA:C	19	40.3
(1,365)	1:E:23:GLN:C	1:E:24:ALA:N	1:E:24:ALA:CA	1:E:24:ALA:C	19	39.8
(1,407)	1:E:23:GLN:N	1:E:23:GLN:CA	1:E:23:GLN:C	1:E:24:ALA:N	16	39.6
(1,149)	1:B:23:GLN:N	1:B:23:GLN:CA	1:B:23:GLN:C	1:B:24:ALA:N	16	39.3
(1,100)	1:B:14:ARG:C	1:B:15:ALA:N	1:B:15:ALA:CA	1:B:15:ALA:C	2	38.6
(1,321)	1:D:23:GLN:N	1:D:23:GLN:CA	1:D:23:GLN:C	1:D:24:ALA:N	16	38.4
(1,272)	1:D:14:ARG:C	1:D:15:ALA:N	1:D:15:ALA:CA	1:D:15:ALA:C	2	36.8
(1,14)	1:A:14:ARG:C	1:A:15:ALA:N	1:A:15:ALA:CA	1:A:15:ALA:C	2	36.8
(1,358)	1:E:14:ARG:C	1:E:15:ALA:N	1:E:15:ALA:CA	1:E:15:ALA:C	2	36.7
(1,186)	1:C:14:ARG:C	1:C:15:ALA:N	1:C:15:ALA:CA	1:C:15:ALA:C	2	36.6
(1,361)	1:E:17:THR:C	1:E:18:ILE:N	1:E:18:ILE:CA	1:E:18:ILE:C	9	35.4
(1,103)	1:B:17:THR:C	1:B:18:ILE:N	1:B:18:ILE:CA	1:B:18:ILE:C	9	35.4
(1,189)	1:C:17:THR:C	1:C:18:ILE:N	1:C:18:ILE:CA	1:C:18:ILE:C	9	35.2
(1,275)	1:D:17:THR:C	1:D:18:ILE:N	1:D:18:ILE:CA	1:D:18:ILE:C	9	35.1
(1,17)	1:A:17:THR:C	1:A:18:ILE:N	1:A:18:ILE:CA	1:A:18:ILE:C	9	35.1
(1,273)	1:D:15:ALA:C	1:D:16:SEP:N	1:D:16:SEP:CA	1:D:16:SEP:C	13	32.7
(1,101)	1:B:15:ALA:C	1:B:16:SEP:N	1:B:16:SEP:CA	1:B:16:SEP:C	13	32.7
(1,359)	1:E:15:ALA:C	1:E:16:SEP:N	1:E:16:SEP:CA	1:E:16:SEP:C	13	32.6
(1,15)	1:A:15:ALA:C	1:A:16:SEP:N	1:A:16:SEP:CA	1:A:16:SEP:C	13	32.6
(1,187)	1:C:15:ALA:C	1:C:16:SEP:N	1:C:16:SEP:CA	1:C:16:SEP:C	13	32.5
(1,57)	1:A:15:ALA:N	1:A:15:ALA:CA	1:A:15:ALA:C	1:A:16:SEP:N	10	32.1
(1,145)	1:B:17:THR:N	1:B:17:THR:CA	1:B:17:THR:C	1:B:18:ILE:N	18	31.1
(1,236)	1:C:24:ALA:N	1:C:24:ALA:CA	1:C:24:ALA:C	1:C:25:ARG:N	10	30.9
(1,231)	1:C:17:THR:N	1:C:17:THR:CA	1:C:17:THR:C	1:C:18:ILE:N	18	30.3
(1,317)	1:D:17:THR:N	1:D:17:THR:CA	1:D:17:THR:C	1:D:18:ILE:N	18	30.2
(1,59)	1:A:17:THR:N	1:A:17:THR:CA	1:A:17:THR:C	1:A:18:ILE:N	18	29.4
(1,403)	1:E:17:THR:N	1:E:17:THR:CA	1:E:17:THR:C	1:E:18:ILE:N	18	29.3
(1,317)	1:D:17:THR:N	1:D:17:THR:CA	1:D:17:THR:C	1:D:18:ILE:N	8	28.3
(1,231)	1:C:17:THR:N	1:C:17:THR:CA	1:C:17:THR:C	1:C:18:ILE:N	8	28.3
(1,403)	1:E:17:THR:N	1:E:17:THR:CA	1:E:17:THR:C	1:E:18:ILE:N	8	28.2
(1,145)	1:B:17:THR:N	1:B:17:THR:CA	1:B:17:THR:C	1:B:18:ILE:N	8	28.1
(1,59)	1:A:17:THR:N	1:A:17:THR:CA	1:A:17:THR:C	1:A:18:ILE:N	8	28.0
(1,360)	1:E:16:SEP:C	1:E:17:THR:N	1:E:17:THR:CA	1:E:17:THR:C	20	27.8
(1,188)	1:C:16:SEP:C	1:C:17:THR:N	1:C:17:THR:CA	1:C:17:THR:C	20	27.6
(1,102)	1:B:16:SEP:C	1:B:17:THR:N	1:B:17:THR:CA	1:B:17:THR:C	20	27.4
(1,274)	1:D:16:SEP:C	1:D:17:THR:N	1:D:17:THR:CA	1:D:17:THR:C	20	27.2
(1,16)	1:A:16:SEP:C	1:A:17:THR:N	1:A:17:THR:CA	1:A:17:THR:C	20	26.9
(1,320)	1:D:22:GLN:N	1:D:22:GLN:CA	1:D:22:GLN:C	1:D:23:GLN:N	4	25.6
(1,406)	1:E:22:GLN:N	1:E:22:GLN:CA	1:E:22:GLN:C	1:E:23:GLN:N	4	24.3
(1,62)	1:A:22:GLN:N	1:A:22:GLN:CA	1:A:22:GLN:C	1:A:23:GLN:N	4	24.1

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,148)	1:B:22:GLN:N	1:B:22:GLN:CA	1:B:22:GLN:C	1:B:23:GLN:N	4	24.0
(1,279)	1:D:23:GLN:C	1:D:24:ALA:N	1:D:24:ALA:CA	1:D:24:ALA:C	8	23.9
(1,16)	1:A:16:SEP:C	1:A:17:THR:N	1:A:17:THR:CA	1:A:17:THR:C	11	23.9
(1,365)	1:E:23:GLN:C	1:E:24:ALA:N	1:E:24:ALA:CA	1:E:24:ALA:C	8	23.7
(1,21)	1:A:23:GLN:C	1:A:24:ALA:N	1:A:24:ALA:CA	1:A:24:ALA:C	8	23.5
(1,107)	1:B:23:GLN:C	1:B:24:ALA:N	1:B:24:ALA:CA	1:B:24:ALA:C	8	23.5
(1,193)	1:C:23:GLN:C	1:C:24:ALA:N	1:C:24:ALA:CA	1:C:24:ALA:C	8	22.8
(1,64)	1:A:24:ALA:N	1:A:24:ALA:CA	1:A:24:ALA:C	1:A:25:ARG:N	12	22.2
(1,104)	1:B:18:ILE:C	1:B:19:GLU:N	1:B:19:GLU:CA	1:B:19:GLU:C	4	22.2
(1,362)	1:E:18:ILE:C	1:E:19:GLU:N	1:E:19:GLU:CA	1:E:19:GLU:C	4	22.1
(1,276)	1:D:18:ILE:C	1:D:19:GLU:N	1:D:19:GLU:CA	1:D:19:GLU:C	4	22.1
(1,190)	1:C:18:ILE:C	1:C:19:GLU:N	1:C:19:GLU:CA	1:C:19:GLU:C	4	22.1
(1,18)	1:A:18:ILE:C	1:A:19:GLU:N	1:A:19:GLU:CA	1:A:19:GLU:C	4	21.9
(1,357)	1:E:13:ARG:C	1:E:14:ARG:N	1:E:14:ARG:CA	1:E:14:ARG:C	13	21.8
(1,185)	1:C:13:ARG:C	1:C:14:ARG:N	1:C:14:ARG:CA	1:C:14:ARG:C	13	21.8
(1,271)	1:D:13:ARG:C	1:D:14:ARG:N	1:D:14:ARG:CA	1:D:14:ARG:C	13	21.7
(1,234)	1:C:22:GLN:N	1:C:22:GLN:CA	1:C:22:GLN:C	1:C:23:GLN:N	12	21.7
(1,13)	1:A:13:ARG:C	1:A:14:ARG:N	1:A:14:ARG:CA	1:A:14:ARG:C	13	21.7
(1,99)	1:B:13:ARG:C	1:B:14:ARG:N	1:B:14:ARG:CA	1:B:14:ARG:C	13	21.6
(1,236)	1:C:24:ALA:N	1:C:24:ALA:CA	1:C:24:ALA:C	1:C:25:ARG:N	12	21.5
(1,322)	1:D:24:ALA:N	1:D:24:ALA:CA	1:D:24:ALA:C	1:D:25:ARG:N	12	21.1
(1,192)	1:C:22:GLN:C	1:C:23:GLN:N	1:C:23:GLN:CA	1:C:23:GLN:C	1	21.1
(1,364)	1:E:22:GLN:C	1:E:23:GLN:N	1:E:23:GLN:CA	1:E:23:GLN:C	1	20.9
(1,234)	1:C:22:GLN:N	1:C:22:GLN:CA	1:C:22:GLN:C	1:C:23:GLN:N	4	20.8
(1,20)	1:A:22:GLN:C	1:A:23:GLN:N	1:A:23:GLN:CA	1:A:23:GLN:C	1	20.8
(1,279)	1:D:23:GLN:C	1:D:24:ALA:N	1:D:24:ALA:CA	1:D:24:ALA:C	15	20.7
(1,106)	1:B:22:GLN:C	1:B:23:GLN:N	1:B:23:GLN:CA	1:B:23:GLN:C	1	20.6
(1,417)	1:E:37:LEU:N	1:E:37:LEU:CA	1:E:37:LEU:C	1:E:38:ILE:N	13	20.4
(1,278)	1:D:22:GLN:C	1:D:23:GLN:N	1:D:23:GLN:CA	1:D:23:GLN:C	1	20.4
(1,276)	1:D:18:ILE:C	1:D:19:GLU:N	1:D:19:GLU:CA	1:D:19:GLU:C	12	20.2
(1,406)	1:E:22:GLN:N	1:E:22:GLN:CA	1:E:22:GLN:C	1:E:23:GLN:N	12	20.1
(1,362)	1:E:18:ILE:C	1:E:19:GLU:N	1:E:19:GLU:CA	1:E:19:GLU:C	12	19.9
(1,245)	1:C:37:LEU:N	1:C:37:LEU:CA	1:C:37:LEU:C	1:C:38:ILE:N	17	19.7
(1,190)	1:C:18:ILE:C	1:C:19:GLU:N	1:C:19:GLU:CA	1:C:19:GLU:C	12	19.7
(1,104)	1:B:18:ILE:C	1:B:19:GLU:N	1:B:19:GLU:CA	1:B:19:GLU:C	12	19.7
(1,245)	1:C:37:LEU:N	1:C:37:LEU:CA	1:C:37:LEU:C	1:C:38:ILE:N	1	19.6
(1,245)	1:C:37:LEU:N	1:C:37:LEU:CA	1:C:37:LEU:C	1:C:38:ILE:N	6	19.6
(1,159)	1:B:37:LEU:N	1:B:37:LEU:CA	1:B:37:LEU:C	1:B:38:ILE:N	7	19.5
(1,62)	1:A:22:GLN:N	1:A:22:GLN:CA	1:A:22:GLN:C	1:A:23:GLN:N	12	19.4
(1,408)	1:E:24:ALA:N	1:E:24:ALA:CA	1:E:24:ALA:C	1:E:25:ARG:N	12	19.4
(1,417)	1:E:37:LEU:N	1:E:37:LEU:CA	1:E:37:LEU:C	1:E:38:ILE:N	6	19.3
(1,320)	1:D:22:GLN:N	1:D:22:GLN:CA	1:D:22:GLN:C	1:D:23:GLN:N	12	19.3
(1,18)	1:A:18:ILE:C	1:A:19:GLU:N	1:A:19:GLU:CA	1:A:19:GLU:C	12	19.3
(1,107)	1:B:23:GLN:C	1:B:24:ALA:N	1:B:24:ALA:CA	1:B:24:ALA:C	15	19.2
(1,16)	1:A:16:SEP:C	1:A:17:THR:N	1:A:17:THR:CA	1:A:17:THR:C	19	19.0
(1,150)	1:B:24:ALA:N	1:B:24:ALA:CA	1:B:24:ALA:C	1:B:25:ARG:N	12	18.9
(1,360)	1:E:16:SEP:C	1:E:17:THR:N	1:E:17:THR:CA	1:E:17:THR:C	2	18.8
(1,360)	1:E:16:SEP:C	1:E:17:THR:N	1:E:17:THR:CA	1:E:17:THR:C	19	18.8
(1,274)	1:D:16:SEP:C	1:D:17:THR:N	1:D:17:THR:CA	1:D:17:THR:C	2	18.8
(1,188)	1:C:16:SEP:C	1:C:17:THR:N	1:C:17:THR:CA	1:C:17:THR:C	2	18.8
(1,16)	1:A:16:SEP:C	1:A:17:THR:N	1:A:17:THR:CA	1:A:17:THR:C	2	18.8

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,362)	1:E:18:ILE:C	1:E:19:GLU:N	1:E:19:GLU:CA	1:E:19:GLU:C	10	18.7
(1,190)	1:C:18:ILE:C	1:C:19:GLU:N	1:C:19:GLU:CA	1:C:19:GLU:C	10	18.7
(1,159)	1:B:37:LEU:N	1:B:37:LEU:CA	1:B:37:LEU:C	1:B:38:ILE:N	14	18.7
(1,276)	1:D:18:ILE:C	1:D:19:GLU:N	1:D:19:GLU:CA	1:D:19:GLU:C	10	18.6
(1,104)	1:B:18:ILE:C	1:B:19:GLU:N	1:B:19:GLU:CA	1:B:19:GLU:C	10	18.6
(1,73)	1:A:37:LEU:N	1:A:37:LEU:CA	1:A:37:LEU:C	1:A:38:ILE:N	19	18.5
(1,365)	1:E:23:GLN:C	1:E:24:ALA:N	1:E:24:ALA:CA	1:E:24:ALA:C	15	18.5
(1,417)	1:E:37:LEU:N	1:E:37:LEU:CA	1:E:37:LEU:C	1:E:38:ILE:N	20	18.3
(1,274)	1:D:16:SEP:C	1:D:17:THR:N	1:D:17:THR:CA	1:D:17:THR:C	19	18.3
(1,245)	1:C:37:LEU:N	1:C:37:LEU:CA	1:C:37:LEU:C	1:C:38:ILE:N	19	18.3
(1,245)	1:C:37:LEU:N	1:C:37:LEU:CA	1:C:37:LEU:C	1:C:38:ILE:N	20	18.3
(1,18)	1:A:18:ILE:C	1:A:19:GLU:N	1:A:19:GLU:CA	1:A:19:GLU:C	8	18.2
(1,148)	1:B:22:GLN:N	1:B:22:GLN:CA	1:B:22:GLN:C	1:B:23:GLN:N	12	18.2
(1,58)	1:A:16:SEP:N	1:A:16:SEP:CA	1:A:16:SEP:C	1:A:17:THR:N	11	18.0
(1,361)	1:E:17:THR:C	1:E:18:ILE:N	1:E:18:ILE:CA	1:E:18:ILE:C	15	17.9
(1,331)	1:D:37:LEU:N	1:D:37:LEU:CA	1:D:37:LEU:C	1:D:38:ILE:N	11	17.9
(1,331)	1:D:37:LEU:N	1:D:37:LEU:CA	1:D:37:LEU:C	1:D:38:ILE:N	19	17.9
(1,276)	1:D:18:ILE:C	1:D:19:GLU:N	1:D:19:GLU:CA	1:D:19:GLU:C	8	17.9
(1,104)	1:B:18:ILE:C	1:B:19:GLU:N	1:B:19:GLU:CA	1:B:19:GLU:C	8	17.9
(1,103)	1:B:17:THR:C	1:B:18:ILE:N	1:B:18:ILE:CA	1:B:18:ILE:C	15	17.9
(1,102)	1:B:16:SEP:C	1:B:17:THR:N	1:B:17:THR:CA	1:B:17:THR:C	2	17.9
(1,362)	1:E:18:ILE:C	1:E:19:GLU:N	1:E:19:GLU:CA	1:E:19:GLU:C	8	17.8
(1,190)	1:C:18:ILE:C	1:C:19:GLU:N	1:C:19:GLU:CA	1:C:19:GLU:C	8	17.8
(1,17)	1:A:17:THR:C	1:A:18:ILE:N	1:A:18:ILE:CA	1:A:18:ILE:C	15	17.8
(1,43)	1:A:50:MET:C	1:A:51:LEU:N	1:A:51:LEU:CA	1:A:51:LEU:C	16	17.7
(1,275)	1:D:17:THR:C	1:D:18:ILE:N	1:D:18:ILE:CA	1:D:18:ILE:C	15	17.7
(1,102)	1:B:16:SEP:C	1:B:17:THR:N	1:B:17:THR:CA	1:B:17:THR:C	18	17.7
(1,245)	1:C:37:LEU:N	1:C:37:LEU:CA	1:C:37:LEU:C	1:C:38:ILE:N	2	17.5
(1,189)	1:C:17:THR:C	1:C:18:ILE:N	1:C:18:ILE:CA	1:C:18:ILE:C	15	17.5
(1,18)	1:A:18:ILE:C	1:A:19:GLU:N	1:A:19:GLU:CA	1:A:19:GLU:C	10	17.4
(1,188)	1:C:16:SEP:C	1:C:17:THR:N	1:C:17:THR:CA	1:C:17:THR:C	18	17.3
(1,159)	1:B:37:LEU:N	1:B:37:LEU:CA	1:B:37:LEU:C	1:B:38:ILE:N	19	17.2
(1,417)	1:E:37:LEU:N	1:E:37:LEU:CA	1:E:37:LEU:C	1:E:38:ILE:N	18	17.1
(1,360)	1:E:16:SEP:C	1:E:17:THR:N	1:E:17:THR:CA	1:E:17:THR:C	15	17.1
(1,274)	1:D:16:SEP:C	1:D:17:THR:N	1:D:17:THR:CA	1:D:17:THR:C	18	17.1
(1,188)	1:C:16:SEP:C	1:C:17:THR:N	1:C:17:THR:CA	1:C:17:THR:C	15	17.1
(1,375)	1:E:37:LEU:C	1:E:38:ILE:N	1:E:38:ILE:CA	1:E:38:ILE:C	13	17.0
(1,102)	1:B:16:SEP:C	1:B:17:THR:N	1:B:17:THR:CA	1:B:17:THR:C	19	17.0
(1,245)	1:C:37:LEU:N	1:C:37:LEU:CA	1:C:37:LEU:C	1:C:38:ILE:N	14	16.9
(1,16)	1:A:16:SEP:C	1:A:17:THR:N	1:A:17:THR:CA	1:A:17:THR:C	15	16.9
(1,274)	1:D:16:SEP:C	1:D:17:THR:N	1:D:17:THR:CA	1:D:17:THR:C	15	16.8
(1,102)	1:B:16:SEP:C	1:B:17:THR:N	1:B:17:THR:CA	1:B:17:THR:C	15	16.8
(1,107)	1:B:23:GLN:C	1:B:24:ALA:N	1:B:24:ALA:CA	1:B:24:ALA:C	3	16.7
(1,417)	1:E:37:LEU:N	1:E:37:LEU:CA	1:E:37:LEU:C	1:E:38:ILE:N	11	16.6
(1,159)	1:B:37:LEU:N	1:B:37:LEU:CA	1:B:37:LEU:C	1:B:38:ILE:N	4	16.5
(1,387)	1:E:50:MET:C	1:E:51:LEU:N	1:E:51:LEU:CA	1:E:51:LEU:C	2	16.4
(1,117)	1:B:37:LEU:C	1:B:38:ILE:N	1:B:38:ILE:CA	1:B:38:ILE:C	19	16.2
(1,417)	1:E:37:LEU:N	1:E:37:LEU:CA	1:E:37:LEU:C	1:E:38:ILE:N	16	16.1
(1,31)	1:A:37:LEU:C	1:A:38:ILE:N	1:A:38:ILE:CA	1:A:38:ILE:C	19	16.1
(1,117)	1:B:37:LEU:C	1:B:38:ILE:N	1:B:38:ILE:CA	1:B:38:ILE:C	7	16.1
(1,104)	1:B:18:ILE:C	1:B:19:GLU:N	1:B:19:GLU:CA	1:B:19:GLU:C	1	16.0

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,18)	1:A:18:ILE:C	1:A:19:GLU:N	1:A:19:GLU:CA	1:A:19:GLU:C	1	15.9
(1,375)	1:E:37:LEU:C	1:E:38:ILE:N	1:E:38:ILE:CA	1:E:38:ILE:C	5	15.8
(1,362)	1:E:18:ILE:C	1:E:19:GLU:N	1:E:19:GLU:CA	1:E:19:GLU:C	1	15.8
(1,276)	1:D:18:ILE:C	1:D:19:GLU:N	1:D:19:GLU:CA	1:D:19:GLU:C	1	15.8
(1,190)	1:C:18:ILE:C	1:C:19:GLU:N	1:C:19:GLU:CA	1:C:19:GLU:C	1	15.7
(1,159)	1:B:37:LEU:N	1:B:37:LEU:CA	1:B:37:LEU:C	1:B:38:ILE:N	8	15.7
(1,417)	1:E:37:LEU:N	1:E:37:LEU:CA	1:E:37:LEU:C	1:E:38:ILE:N	5	15.6
(1,387)	1:E:50:MET:C	1:E:51:LEU:N	1:E:51:LEU:CA	1:E:51:LEU:C	18	15.6
(1,245)	1:C:37:LEU:N	1:C:37:LEU:CA	1:C:37:LEU:C	1:C:38:ILE:N	9	15.6
(1,188)	1:C:16:SEP:C	1:C:17:THR:N	1:C:17:THR:CA	1:C:17:THR:C	19	15.6
(1,21)	1:A:23:GLN:C	1:A:24:ALA:N	1:A:24:ALA:CA	1:A:24:ALA:C	3	15.5
(1,203)	1:C:37:LEU:C	1:C:38:ILE:N	1:C:38:ILE:CA	1:C:38:ILE:C	1	15.4
(1,203)	1:C:37:LEU:C	1:C:38:ILE:N	1:C:38:ILE:CA	1:C:38:ILE:C	20	15.4
(1,429)	1:E:50:MET:N	1:E:50:MET:CA	1:E:50:MET:C	1:E:51:LEU:N	3	15.3
(1,203)	1:C:37:LEU:C	1:C:38:ILE:N	1:C:38:ILE:CA	1:C:38:ILE:C	17	15.3
(1,16)	1:A:16:SEP:C	1:A:17:THR:N	1:A:17:THR:CA	1:A:17:THR:C	10	15.3
(1,117)	1:B:37:LEU:C	1:B:38:ILE:N	1:B:38:ILE:CA	1:B:38:ILE:C	8	15.3
(1,375)	1:E:37:LEU:C	1:E:38:ILE:N	1:E:38:ILE:CA	1:E:38:ILE:C	20	15.2
(1,129)	1:B:50:MET:C	1:B:51:LEU:N	1:B:51:LEU:CA	1:B:51:LEU:C	18	15.2
(1,31)	1:A:37:LEU:C	1:A:38:ILE:N	1:A:38:ILE:CA	1:A:38:ILE:C	5	15.0
(1,279)	1:D:23:GLN:C	1:D:24:ALA:N	1:D:24:ALA:CA	1:D:24:ALA:C	3	14.9
(1,85)	1:A:50:MET:N	1:A:50:MET:CA	1:A:50:MET:C	1:A:51:LEU:N	3	14.8
(1,361)	1:E:17:THR:C	1:E:18:ILE:N	1:E:18:ILE:CA	1:E:18:ILE:C	20	14.8
(1,21)	1:A:23:GLN:C	1:A:24:ALA:N	1:A:24:ALA:CA	1:A:24:ALA:C	15	14.8
(1,203)	1:C:37:LEU:C	1:C:38:ILE:N	1:C:38:ILE:CA	1:C:38:ILE:C	6	14.8
(1,203)	1:C:37:LEU:C	1:C:38:ILE:N	1:C:38:ILE:CA	1:C:38:ILE:C	19	14.8
(1,192)	1:C:22:GLN:C	1:C:23:GLN:N	1:C:23:GLN:CA	1:C:23:GLN:C	17	14.8
(1,365)	1:E:23:GLN:C	1:E:24:ALA:N	1:E:24:ALA:CA	1:E:24:ALA:C	3	14.7
(1,276)	1:D:18:ILE:C	1:D:19:GLU:N	1:D:19:GLU:CA	1:D:19:GLU:C	11	14.7
(1,193)	1:C:23:GLN:C	1:C:24:ALA:N	1:C:24:ALA:CA	1:C:24:ALA:C	3	14.6
(1,117)	1:B:37:LEU:C	1:B:38:ILE:N	1:B:38:ILE:CA	1:B:38:ILE:C	14	14.6
(1,104)	1:B:18:ILE:C	1:B:19:GLU:N	1:B:19:GLU:CA	1:B:19:GLU:C	11	14.5
(1,362)	1:E:18:ILE:C	1:E:19:GLU:N	1:E:19:GLU:CA	1:E:19:GLU:C	11	14.3
(1,190)	1:C:18:ILE:C	1:C:19:GLU:N	1:C:19:GLU:CA	1:C:19:GLU:C	11	14.3
(1,73)	1:A:37:LEU:N	1:A:37:LEU:CA	1:A:37:LEU:C	1:A:38:ILE:N	5	14.2
(1,316)	1:D:16:SEP:N	1:D:16:SEP:CA	1:D:16:SEP:C	1:D:17:THR:N	15	14.2
(1,289)	1:D:37:LEU:C	1:D:38:ILE:N	1:D:38:ILE:CA	1:D:38:ILE:C	11	14.2
(1,18)	1:A:18:ILE:C	1:A:19:GLU:N	1:A:19:GLU:CA	1:A:19:GLU:C	11	14.2
(1,17)	1:A:17:THR:C	1:A:18:ILE:N	1:A:18:ILE:CA	1:A:18:ILE:C	20	14.2
(1,144)	1:B:16:SEP:N	1:B:16:SEP:CA	1:B:16:SEP:C	1:B:17:THR:N	15	14.2
(1,117)	1:B:37:LEU:C	1:B:38:ILE:N	1:B:38:ILE:CA	1:B:38:ILE:C	4	14.2
(1,43)	1:A:50:MET:C	1:A:51:LEU:N	1:A:51:LEU:CA	1:A:51:LEU:C	13	14.1
(1,235)	1:C:23:GLN:N	1:C:23:GLN:CA	1:C:23:GLN:C	1:C:24:ALA:N	20	14.1
(1,58)	1:A:16:SEP:N	1:A:16:SEP:CA	1:A:16:SEP:C	1:A:17:THR:N	15	14.0
(1,203)	1:C:37:LEU:C	1:C:38:ILE:N	1:C:38:ILE:CA	1:C:38:ILE:C	2	14.0
(1,189)	1:C:17:THR:C	1:C:18:ILE:N	1:C:18:ILE:CA	1:C:18:ILE:C	20	14.0
(1,360)	1:E:16:SEP:C	1:E:17:THR:N	1:E:17:THR:CA	1:E:17:THR:C	18	13.9
(1,289)	1:D:37:LEU:C	1:D:38:ILE:N	1:D:38:ILE:CA	1:D:38:ILE:C	19	13.9
(1,106)	1:B:22:GLN:C	1:B:23:GLN:N	1:B:23:GLN:CA	1:B:23:GLN:C	17	13.9
(1,402)	1:E:16:SEP:N	1:E:16:SEP:CA	1:E:16:SEP:C	1:E:17:THR:N	15	13.8
(1,230)	1:C:16:SEP:N	1:C:16:SEP:CA	1:C:16:SEP:C	1:C:17:THR:N	15	13.8

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,16)	1:A:16:SEP:C	1:A:17:THR:N	1:A:17:THR:CA	1:A:17:THR:C	18	13.8
(1,375)	1:E:37:LEU:C	1:E:38:ILE:N	1:E:38:ILE:CA	1:E:38:ILE:C	18	13.7
(1,360)	1:E:16:SEP:C	1:E:17:THR:N	1:E:17:THR:CA	1:E:17:THR:C	11	13.7
(1,117)	1:B:37:LEU:C	1:B:38:ILE:N	1:B:38:ILE:CA	1:B:38:ILE:C	9	13.7
(1,275)	1:D:17:THR:C	1:D:18:ILE:N	1:D:18:ILE:CA	1:D:18:ILE:C	20	13.6
(1,274)	1:D:16:SEP:C	1:D:17:THR:N	1:D:17:THR:CA	1:D:17:THR:C	11	13.6
(1,188)	1:C:16:SEP:C	1:C:17:THR:N	1:C:17:THR:CA	1:C:17:THR:C	11	13.6
(1,15)	1:A:15:ALA:C	1:A:16:SEP:N	1:A:16:SEP:CA	1:A:16:SEP:C	10	13.6
(1,103)	1:B:17:THR:C	1:B:18:ILE:N	1:B:18:ILE:CA	1:B:18:ILE:C	20	13.6
(1,203)	1:C:37:LEU:C	1:C:38:ILE:N	1:C:38:ILE:CA	1:C:38:ILE:C	9	13.3
(1,149)	1:B:23:GLN:N	1:B:23:GLN:CA	1:B:23:GLN:C	1:B:24:ALA:N	20	13.3
(1,159)	1:B:37:LEU:N	1:B:37:LEU:CA	1:B:37:LEU:C	1:B:38:ILE:N	9	13.2
(1,417)	1:E:37:LEU:N	1:E:37:LEU:CA	1:E:37:LEU:C	1:E:38:ILE:N	3	13.1
(1,375)	1:E:37:LEU:C	1:E:38:ILE:N	1:E:38:ILE:CA	1:E:38:ILE:C	6	13.1
(1,193)	1:C:23:GLN:C	1:C:24:ALA:N	1:C:24:ALA:CA	1:C:24:ALA:C	15	12.9
(1,191)	1:C:21:PRO:C	1:C:22:GLN:N	1:C:22:GLN:CA	1:C:22:GLN:C	15	12.9
(1,278)	1:D:22:GLN:C	1:D:23:GLN:N	1:D:23:GLN:CA	1:D:23:GLN:C	17	12.8
(1,43)	1:A:50:MET:C	1:A:51:LEU:N	1:A:51:LEU:CA	1:A:51:LEU:C	7	12.7
(1,387)	1:E:50:MET:C	1:E:51:LEU:N	1:E:51:LEU:CA	1:E:51:LEU:C	7	12.7
(1,375)	1:E:37:LEU:C	1:E:38:ILE:N	1:E:38:ILE:CA	1:E:38:ILE:C	11	12.7
(1,20)	1:A:22:GLN:C	1:A:23:GLN:N	1:A:23:GLN:CA	1:A:23:GLN:C	17	12.7
(1,191)	1:C:21:PRO:C	1:C:22:GLN:N	1:C:22:GLN:CA	1:C:22:GLN:C	12	12.7
(1,364)	1:E:22:GLN:C	1:E:23:GLN:N	1:E:23:GLN:CA	1:E:23:GLN:C	17	12.6
(1,102)	1:B:16:SEP:C	1:B:17:THR:N	1:B:17:THR:CA	1:B:17:THR:C	11	12.6
(1,407)	1:E:23:GLN:N	1:E:23:GLN:CA	1:E:23:GLN:C	1:E:24:ALA:N	6	12.5
(1,203)	1:C:37:LEU:C	1:C:38:ILE:N	1:C:38:ILE:CA	1:C:38:ILE:C	14	12.5
(1,107)	1:B:23:GLN:C	1:B:24:ALA:N	1:B:24:ALA:CA	1:B:24:ALA:C	13	12.5
(1,58)	1:A:16:SEP:N	1:A:16:SEP:CA	1:A:16:SEP:C	1:A:17:THR:N	20	12.4
(1,235)	1:C:23:GLN:N	1:C:23:GLN:CA	1:C:23:GLN:C	1:C:24:ALA:N	6	12.4
(1,21)	1:A:23:GLN:C	1:A:24:ALA:N	1:A:24:ALA:CA	1:A:24:ALA:C	13	12.4
(1,375)	1:E:37:LEU:C	1:E:38:ILE:N	1:E:38:ILE:CA	1:E:38:ILE:C	16	12.3
(1,402)	1:E:16:SEP:N	1:E:16:SEP:CA	1:E:16:SEP:C	1:E:17:THR:N	20	12.2
(1,361)	1:E:17:THR:C	1:E:18:ILE:N	1:E:18:ILE:CA	1:E:18:ILE:C	12	12.2
(1,230)	1:C:16:SEP:N	1:C:16:SEP:CA	1:C:16:SEP:C	1:C:17:THR:N	20	12.2
(1,193)	1:C:23:GLN:C	1:C:24:ALA:N	1:C:24:ALA:CA	1:C:24:ALA:C	13	12.2
(1,365)	1:E:23:GLN:C	1:E:24:ALA:N	1:E:24:ALA:CA	1:E:24:ALA:C	13	12.1
(1,279)	1:D:23:GLN:C	1:D:24:ALA:N	1:D:24:ALA:CA	1:D:24:ALA:C	4	12.1
(1,275)	1:D:17:THR:C	1:D:18:ILE:N	1:D:18:ILE:CA	1:D:18:ILE:C	12	12.1
(1,316)	1:D:16:SEP:N	1:D:16:SEP:CA	1:D:16:SEP:C	1:D:17:THR:N	20	11.9
(1,19)	1:A:21:PRO:C	1:A:22:GLN:N	1:A:22:GLN:CA	1:A:22:GLN:C	12	11.9
(1,17)	1:A:17:THR:C	1:A:18:ILE:N	1:A:18:ILE:CA	1:A:18:ILE:C	12	11.9
(1,149)	1:B:23:GLN:N	1:B:23:GLN:CA	1:B:23:GLN:C	1:B:24:ALA:N	6	11.9
(1,105)	1:B:21:PRO:C	1:B:22:GLN:N	1:B:22:GLN:CA	1:B:22:GLN:C	12	11.9
(1,63)	1:A:23:GLN:N	1:A:23:GLN:CA	1:A:23:GLN:C	1:A:24:ALA:N	6	11.8
(1,407)	1:E:23:GLN:N	1:E:23:GLN:CA	1:E:23:GLN:C	1:E:24:ALA:N	20	11.8
(1,321)	1:D:23:GLN:N	1:D:23:GLN:CA	1:D:23:GLN:C	1:D:24:ALA:N	6	11.8
(1,317)	1:D:17:THR:N	1:D:17:THR:CA	1:D:17:THR:C	1:D:18:ILE:N	12	11.8
(1,279)	1:D:23:GLN:C	1:D:24:ALA:N	1:D:24:ALA:CA	1:D:24:ALA:C	13	11.8
(1,360)	1:E:16:SEP:C	1:E:17:THR:N	1:E:17:THR:CA	1:E:17:THR:C	4	11.7
(1,189)	1:C:17:THR:C	1:C:18:ILE:N	1:C:18:ILE:CA	1:C:18:ILE:C	12	11.7
(1,188)	1:C:16:SEP:C	1:C:17:THR:N	1:C:17:THR:CA	1:C:17:THR:C	4	11.7

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Continued from previous page...

Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,16)	1:A:16:SEP:C	1:A:17:THR:N	1:A:17:THR:CA	1:A:17:THR:C	4	11.7
(1,102)	1:B:16:SEP:C	1:B:17:THR:N	1:B:17:THR:CA	1:B:17:THR:C	4	11.7
(1,145)	1:B:17:THR:N	1:B:17:THR:CA	1:B:17:THR:C	1:B:18:ILE:N	12	11.6
(1,103)	1:B:17:THR:C	1:B:18:ILE:N	1:B:18:ILE:CA	1:B:18:ILE:C	12	11.6
(1,68)	1:A:32:PHE:N	1:A:32:PHE:CA	1:A:32:PHE:C	1:A:33:ILE:N	6	11.5
(1,403)	1:E:17:THR:N	1:E:17:THR:CA	1:E:17:THR:C	1:E:18:ILE:N	12	11.5
(1,363)	1:E:21:PRO:C	1:E:22:GLN:N	1:E:22:GLN:CA	1:E:22:GLN:C	12	11.5
(1,231)	1:C:17:THR:N	1:C:17:THR:CA	1:C:17:THR:C	1:C:18:ILE:N	12	11.5
(1,154)	1:B:32:PHE:N	1:B:32:PHE:CA	1:B:32:PHE:C	1:B:33:ILE:N	6	11.5
(1,104)	1:B:18:ILE:C	1:B:19:GLU:N	1:B:19:GLU:CA	1:B:19:GLU:C	2	11.5
(1,59)	1:A:17:THR:N	1:A:17:THR:CA	1:A:17:THR:C	1:A:18:ILE:N	12	11.4
(1,365)	1:E:23:GLN:C	1:E:24:ALA:N	1:E:24:ALA:CA	1:E:24:ALA:C	4	11.4
(1,316)	1:D:16:SEP:N	1:D:16:SEP:CA	1:D:16:SEP:C	1:D:17:THR:N	4	11.4
(1,107)	1:B:23:GLN:C	1:B:24:ALA:N	1:B:24:ALA:CA	1:B:24:ALA:C	4	11.4
(1,43)	1:A:50:MET:C	1:A:51:LEU:N	1:A:51:LEU:CA	1:A:51:LEU:C	10	11.3
(1,232)	1:C:18:ILE:N	1:C:18:ILE:CA	1:C:18:ILE:C	1:C:19:GLU:N	19	11.3
(1,408)	1:E:24:ALA:N	1:E:24:ALA:CA	1:E:24:ALA:C	1:E:25:ARG:N	1	11.2
(1,404)	1:E:18:ILE:N	1:E:18:ILE:CA	1:E:18:ILE:C	1:E:19:GLU:N	19	11.2
(1,387)	1:E:50:MET:C	1:E:51:LEU:N	1:E:51:LEU:CA	1:E:51:LEU:C	10	11.2
(1,318)	1:D:18:ILE:N	1:D:18:ILE:CA	1:D:18:ILE:C	1:D:19:GLU:N	19	11.2
(1,274)	1:D:16:SEP:C	1:D:17:THR:N	1:D:17:THR:CA	1:D:17:THR:C	4	11.2
(1,144)	1:B:16:SEP:N	1:B:16:SEP:CA	1:B:16:SEP:C	1:B:17:THR:N	4	11.2
(1,144)	1:B:16:SEP:N	1:B:16:SEP:CA	1:B:16:SEP:C	1:B:17:THR:N	20	11.2
(1,63)	1:A:23:GLN:N	1:A:23:GLN:CA	1:A:23:GLN:C	1:A:24:ALA:N	20	11.1
(1,60)	1:A:18:ILE:N	1:A:18:ILE:CA	1:A:18:ILE:C	1:A:19:GLU:N	19	11.1
(1,21)	1:A:23:GLN:C	1:A:24:ALA:N	1:A:24:ALA:CA	1:A:24:ALA:C	4	11.1
(1,15)	1:A:15:ALA:C	1:A:16:SEP:N	1:A:16:SEP:CA	1:A:16:SEP:C	11	10.9
(1,64)	1:A:24:ALA:N	1:A:24:ALA:CA	1:A:24:ALA:C	1:A:25:ARG:N	1	10.8
(1,402)	1:E:16:SEP:N	1:E:16:SEP:CA	1:E:16:SEP:C	1:E:17:THR:N	4	10.7
(1,321)	1:D:23:GLN:N	1:D:23:GLN:CA	1:D:23:GLN:C	1:D:24:ALA:N	20	10.7
(1,230)	1:C:16:SEP:N	1:C:16:SEP:CA	1:C:16:SEP:C	1:C:17:THR:N	4	10.7
(1,58)	1:A:16:SEP:N	1:A:16:SEP:CA	1:A:16:SEP:C	1:A:17:THR:N	4	10.6
(1,43)	1:A:50:MET:C	1:A:51:LEU:N	1:A:51:LEU:CA	1:A:51:LEU:C	14	10.6
(1,317)	1:D:17:THR:N	1:D:17:THR:CA	1:D:17:THR:C	1:D:18:ILE:N	9	10.6
(1,231)	1:C:17:THR:N	1:C:17:THR:CA	1:C:17:THR:C	1:C:18:ILE:N	9	10.6
(1,375)	1:E:37:LEU:C	1:E:38:ILE:N	1:E:38:ILE:CA	1:E:38:ILE:C	3	10.5
(1,326)	1:D:32:PHE:N	1:D:32:PHE:CA	1:D:32:PHE:C	1:D:33:ILE:N	6	10.5
(1,322)	1:D:24:ALA:N	1:D:24:ALA:CA	1:D:24:ALA:C	1:D:25:ARG:N	1	10.5
(1,145)	1:B:17:THR:N	1:B:17:THR:CA	1:B:17:THR:C	1:B:18:ILE:N	9	10.5
(1,240)	1:C:32:PHE:N	1:C:32:PHE:CA	1:C:32:PHE:C	1:C:33:ILE:N	6	10.4
(1,236)	1:C:24:ALA:N	1:C:24:ALA:CA	1:C:24:ALA:C	1:C:25:ARG:N	1	10.4
(1,59)	1:A:17:THR:N	1:A:17:THR:CA	1:A:17:THR:C	1:A:18:ILE:N	9	10.3
(1,403)	1:E:17:THR:N	1:E:17:THR:CA	1:E:17:THR:C	1:E:18:ILE:N	9	10.3
(1,412)	1:E:32:PHE:N	1:E:32:PHE:CA	1:E:32:PHE:C	1:E:33:ILE:N	6	10.2
(1,387)	1:E:50:MET:C	1:E:51:LEU:N	1:E:51:LEU:CA	1:E:51:LEU:C	15	10.2
(1,301)	1:D:50:MET:C	1:D:51:LEU:N	1:D:51:LEU:CA	1:D:51:LEU:C	8	10.2
(1,193)	1:C:23:GLN:C	1:C:24:ALA:N	1:C:24:ALA:CA	1:C:24:ALA:C	4	10.2
(1,150)	1:B:24:ALA:N	1:B:24:ALA:CA	1:B:24:ALA:C	1:B:25:ARG:N	1	10.2
(1,43)	1:A:50:MET:C	1:A:51:LEU:N	1:A:51:LEU:CA	1:A:51:LEU:C	15	10.1
(1,273)	1:D:15:ALA:C	1:D:16:SEP:N	1:D:16:SEP:CA	1:D:16:SEP:C	5	10.1
(1,43)	1:A:50:MET:C	1:A:51:LEU:N	1:A:51:LEU:CA	1:A:51:LEU:C	8	10.0

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,146)	1:B:18:ILE:N	1:B:18:ILE:CA	1:B:18:ILE:C	1:B:19:GLU:N	19	10.0
(1,129)	1:B:50:MET:C	1:B:51:LEU:N	1:B:51:LEU:CA	1:B:51:LEU:C	15	10.0
(1,43)	1:A:50:MET:C	1:A:51:LEU:N	1:A:51:LEU:CA	1:A:51:LEU:C	1	9.9
(1,187)	1:C:15:ALA:C	1:C:16:SEP:N	1:C:16:SEP:CA	1:C:16:SEP:C	5	9.9
(1,15)	1:A:15:ALA:C	1:A:16:SEP:N	1:A:16:SEP:CA	1:A:16:SEP:C	5	9.9
(1,101)	1:B:15:ALA:C	1:B:16:SEP:N	1:B:16:SEP:CA	1:B:16:SEP:C	5	9.9
(1,387)	1:E:50:MET:C	1:E:51:LEU:N	1:E:51:LEU:CA	1:E:51:LEU:C	1	9.8
(1,387)	1:E:50:MET:C	1:E:51:LEU:N	1:E:51:LEU:CA	1:E:51:LEU:C	8	9.8
(1,362)	1:E:18:ILE:C	1:E:19:GLU:N	1:E:19:GLU:CA	1:E:19:GLU:C	2	9.8
(1,277)	1:D:21:PRO:C	1:D:22:GLN:N	1:D:22:GLN:CA	1:D:22:GLN:C	12	9.8
(1,276)	1:D:18:ILE:C	1:D:19:GLU:N	1:D:19:GLU:CA	1:D:19:GLU:C	2	9.8
(1,18)	1:A:18:ILE:C	1:A:19:GLU:N	1:A:19:GLU:CA	1:A:19:GLU:C	2	9.8
(1,359)	1:E:15:ALA:C	1:E:16:SEP:N	1:E:16:SEP:CA	1:E:16:SEP:C	5	9.7
(1,190)	1:C:18:ILE:C	1:C:19:GLU:N	1:C:19:GLU:CA	1:C:19:GLU:C	2	9.7
(1,387)	1:E:50:MET:C	1:E:51:LEU:N	1:E:51:LEU:CA	1:E:51:LEU:C	14	9.6
(1,102)	1:B:16:SEP:C	1:B:17:THR:N	1:B:17:THR:CA	1:B:17:THR:C	3	9.6
(1,215)	1:C:50:MET:C	1:C:51:LEU:N	1:C:51:LEU:CA	1:C:51:LEU:C	8	9.3
(1,361)	1:E:17:THR:C	1:E:18:ILE:N	1:E:18:ILE:CA	1:E:18:ILE:C	1	9.2
(1,189)	1:C:17:THR:C	1:C:18:ILE:N	1:C:18:ILE:CA	1:C:18:ILE:C	1	9.1
(1,17)	1:A:17:THR:C	1:A:18:ILE:N	1:A:18:ILE:CA	1:A:18:ILE:C	1	9.1
(1,103)	1:B:17:THR:C	1:B:18:ILE:N	1:B:18:ILE:CA	1:B:18:ILE:C	1	9.1
(1,275)	1:D:17:THR:C	1:D:18:ILE:N	1:D:18:ILE:CA	1:D:18:ILE:C	1	8.9
(1,107)	1:B:23:GLN:C	1:B:24:ALA:N	1:B:24:ALA:CA	1:B:24:ALA:C	6	8.9
(1,58)	1:A:16:SEP:N	1:A:16:SEP:CA	1:A:16:SEP:C	1:A:17:THR:N	5	8.8
(1,316)	1:D:16:SEP:N	1:D:16:SEP:CA	1:D:16:SEP:C	1:D:17:THR:N	5	8.8
(1,230)	1:C:16:SEP:N	1:C:16:SEP:CA	1:C:16:SEP:C	1:C:17:THR:N	5	8.7
(1,144)	1:B:16:SEP:N	1:B:16:SEP:CA	1:B:16:SEP:C	1:B:17:THR:N	5	8.7
(1,365)	1:E:23:GLN:C	1:E:24:ALA:N	1:E:24:ALA:CA	1:E:24:ALA:C	6	8.6
(1,412)	1:E:32:PHE:N	1:E:32:PHE:CA	1:E:32:PHE:C	1:E:33:ILE:N	14	8.5
(1,402)	1:E:16:SEP:N	1:E:16:SEP:CA	1:E:16:SEP:C	1:E:17:THR:N	5	8.5
(1,102)	1:B:16:SEP:C	1:B:17:THR:N	1:B:17:THR:CA	1:B:17:THR:C	16	8.5
(1,279)	1:D:23:GLN:C	1:D:24:ALA:N	1:D:24:ALA:CA	1:D:24:ALA:C	6	8.4
(1,274)	1:D:16:SEP:C	1:D:17:THR:N	1:D:17:THR:CA	1:D:17:THR:C	16	8.4
(1,129)	1:B:50:MET:C	1:B:51:LEU:N	1:B:51:LEU:CA	1:B:51:LEU:C	17	8.4
(1,278)	1:D:22:GLN:C	1:D:23:GLN:N	1:D:23:GLN:CA	1:D:23:GLN:C	16	8.2
(1,193)	1:C:23:GLN:C	1:C:24:ALA:N	1:C:24:ALA:CA	1:C:24:ALA:C	6	8.2
(1,362)	1:E:18:ILE:C	1:E:19:GLU:N	1:E:19:GLU:CA	1:E:19:GLU:C	17	8.1
(1,192)	1:C:22:GLN:C	1:C:23:GLN:N	1:C:23:GLN:CA	1:C:23:GLN:C	4	8.1
(1,190)	1:C:18:ILE:C	1:C:19:GLU:N	1:C:19:GLU:CA	1:C:19:GLU:C	17	8.1
(1,202)	1:C:36:CYS:C	1:C:37:LEU:N	1:C:37:LEU:CA	1:C:37:LEU:C	14	8.0
(1,276)	1:D:18:ILE:C	1:D:19:GLU:N	1:D:19:GLU:CA	1:D:19:GLU:C	17	7.9
(1,68)	1:A:32:PHE:N	1:A:32:PHE:CA	1:A:32:PHE:C	1:A:33:ILE:N	20	7.8
(1,360)	1:E:16:SEP:C	1:E:17:THR:N	1:E:17:THR:CA	1:E:17:THR:C	16	7.8
(1,16)	1:A:16:SEP:C	1:A:17:THR:N	1:A:17:THR:CA	1:A:17:THR:C	16	7.8
(1,188)	1:C:16:SEP:C	1:C:17:THR:N	1:C:17:THR:CA	1:C:17:THR:C	16	7.7
(1,364)	1:E:22:GLN:C	1:E:23:GLN:N	1:E:23:GLN:CA	1:E:23:GLN:C	16	7.6
(1,326)	1:D:32:PHE:N	1:D:32:PHE:CA	1:D:32:PHE:C	1:D:33:ILE:N	14	7.6
(1,25)	1:A:31:LEU:C	1:A:32:PHE:N	1:A:32:PHE:CA	1:A:32:PHE:C	1	7.6
(1,412)	1:E:32:PHE:N	1:E:32:PHE:CA	1:E:32:PHE:C	1:E:33:ILE:N	1	7.5
(1,374)	1:E:36:CYS:C	1:E:37:LEU:N	1:E:37:LEU:CA	1:E:37:LEU:C	5	7.5
(1,364)	1:E:22:GLN:C	1:E:23:GLN:N	1:E:23:GLN:CA	1:E:23:GLN:C	4	7.5

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,360)	1:E:16:SEP:C	1:E:17:THR:N	1:E:17:THR:CA	1:E:17:THR:C	3	7.5
(1,21)	1:A:23:GLN:C	1:A:24:ALA:N	1:A:24:ALA:CA	1:A:24:ALA:C	6	7.5
(1,154)	1:B:32:PHE:N	1:B:32:PHE:CA	1:B:32:PHE:C	1:B:33:ILE:N	20	7.5
(1,326)	1:D:32:PHE:N	1:D:32:PHE:CA	1:D:32:PHE:C	1:D:33:ILE:N	20	7.4
(1,274)	1:D:16:SEP:C	1:D:17:THR:N	1:D:17:THR:CA	1:D:17:THR:C	12	7.4
(1,106)	1:B:22:GLN:C	1:B:23:GLN:N	1:B:23:GLN:CA	1:B:23:GLN:C	16	7.4
(1,374)	1:E:36:CYS:C	1:E:37:LEU:N	1:E:37:LEU:CA	1:E:37:LEU:C	11	7.2
(1,360)	1:E:16:SEP:C	1:E:17:THR:N	1:E:17:THR:CA	1:E:17:THR:C	12	7.2
(1,288)	1:D:36:CYS:C	1:D:37:LEU:N	1:D:37:LEU:CA	1:D:37:LEU:C	11	7.2
(1,274)	1:D:16:SEP:C	1:D:17:THR:N	1:D:17:THR:CA	1:D:17:THR:C	3	7.2
(1,20)	1:A:22:GLN:C	1:A:23:GLN:N	1:A:23:GLN:CA	1:A:23:GLN:C	4	7.2
(1,16)	1:A:16:SEP:C	1:A:17:THR:N	1:A:17:THR:CA	1:A:17:THR:C	3	7.2
(1,106)	1:B:22:GLN:C	1:B:23:GLN:N	1:B:23:GLN:CA	1:B:23:GLN:C	4	7.2
(1,403)	1:E:17:THR:N	1:E:17:THR:CA	1:E:17:THR:C	1:E:18:ILE:N	4	7.1
(1,326)	1:D:32:PHE:N	1:D:32:PHE:CA	1:D:32:PHE:C	1:D:33:ILE:N	1	7.1
(1,317)	1:D:17:THR:N	1:D:17:THR:CA	1:D:17:THR:C	1:D:18:ILE:N	4	7.1
(1,21)	1:A:23:GLN:C	1:A:24:ALA:N	1:A:24:ALA:CA	1:A:24:ALA:C	16	7.1
(1,202)	1:C:36:CYS:C	1:C:37:LEU:N	1:C:37:LEU:CA	1:C:37:LEU:C	20	7.1
(1,19)	1:A:21:PRO:C	1:A:22:GLN:N	1:A:22:GLN:CA	1:A:22:GLN:C	15	7.1
(1,188)	1:C:16:SEP:C	1:C:17:THR:N	1:C:17:THR:CA	1:C:17:THR:C	3	7.1
(1,16)	1:A:16:SEP:C	1:A:17:THR:N	1:A:17:THR:CA	1:A:17:THR:C	12	7.1
(1,154)	1:B:32:PHE:N	1:B:32:PHE:CA	1:B:32:PHE:C	1:B:33:ILE:N	11	7.1
(1,59)	1:A:17:THR:N	1:A:17:THR:CA	1:A:17:THR:C	1:A:18:ILE:N	4	7.0
(1,301)	1:D:50:MET:C	1:D:51:LEU:N	1:D:51:LEU:CA	1:D:51:LEU:C	17	7.0
(1,145)	1:B:17:THR:N	1:B:17:THR:CA	1:B:17:THR:C	1:B:18:ILE:N	4	7.0
(1,68)	1:A:32:PHE:N	1:A:32:PHE:CA	1:A:32:PHE:C	1:A:33:ILE:N	11	6.9
(1,68)	1:A:32:PHE:N	1:A:32:PHE:CA	1:A:32:PHE:C	1:A:33:ILE:N	14	6.9
(1,403)	1:E:17:THR:N	1:E:17:THR:CA	1:E:17:THR:C	1:E:18:ILE:N	13	6.9
(1,387)	1:E:50:MET:C	1:E:51:LEU:N	1:E:51:LEU:CA	1:E:51:LEU:C	17	6.9
(1,369)	1:E:31:LEU:C	1:E:32:PHE:N	1:E:32:PHE:CA	1:E:32:PHE:C	1	6.9
(1,240)	1:C:32:PHE:N	1:C:32:PHE:CA	1:C:32:PHE:C	1:C:33:ILE:N	20	6.9
(1,188)	1:C:16:SEP:C	1:C:17:THR:N	1:C:17:THR:CA	1:C:17:THR:C	12	6.9
(1,154)	1:B:32:PHE:N	1:B:32:PHE:CA	1:B:32:PHE:C	1:B:33:ILE:N	1	6.9
(1,102)	1:B:16:SEP:C	1:B:17:THR:N	1:B:17:THR:CA	1:B:17:THR:C	12	6.9
(1,412)	1:E:32:PHE:N	1:E:32:PHE:CA	1:E:32:PHE:C	1:E:33:ILE:N	20	6.8
(1,317)	1:D:17:THR:N	1:D:17:THR:CA	1:D:17:THR:C	1:D:18:ILE:N	13	6.8
(1,274)	1:D:16:SEP:C	1:D:17:THR:N	1:D:17:THR:CA	1:D:17:THR:C	17	6.8
(1,197)	1:C:31:LEU:C	1:C:32:PHE:N	1:C:32:PHE:CA	1:C:32:PHE:C	1	6.8
(1,145)	1:B:17:THR:N	1:B:17:THR:CA	1:B:17:THR:C	1:B:18:ILE:N	13	6.8
(1,360)	1:E:16:SEP:C	1:E:17:THR:N	1:E:17:THR:CA	1:E:17:THR:C	17	6.7
(1,326)	1:D:32:PHE:N	1:D:32:PHE:CA	1:D:32:PHE:C	1:D:33:ILE:N	11	6.7
(1,240)	1:C:32:PHE:N	1:C:32:PHE:CA	1:C:32:PHE:C	1:C:33:ILE:N	1	6.7
(1,193)	1:C:23:GLN:C	1:C:24:ALA:N	1:C:24:ALA:CA	1:C:24:ALA:C	16	6.7
(1,59)	1:A:17:THR:N	1:A:17:THR:CA	1:A:17:THR:C	1:A:18:ILE:N	13	6.6
(1,412)	1:E:32:PHE:N	1:E:32:PHE:CA	1:E:32:PHE:C	1:E:33:ILE:N	11	6.6
(1,274)	1:D:16:SEP:C	1:D:17:THR:N	1:D:17:THR:CA	1:D:17:THR:C	10	6.6
(1,231)	1:C:17:THR:N	1:C:17:THR:CA	1:C:17:THR:C	1:C:18:ILE:N	4	6.6
(1,231)	1:C:17:THR:N	1:C:17:THR:CA	1:C:17:THR:C	1:C:18:ILE:N	13	6.6
(1,188)	1:C:16:SEP:C	1:C:17:THR:N	1:C:17:THR:CA	1:C:17:THR:C	17	6.6
(1,188)	1:C:16:SEP:C	1:C:17:THR:N	1:C:17:THR:CA	1:C:17:THR:C	10	6.5
(1,16)	1:A:16:SEP:C	1:A:17:THR:N	1:A:17:THR:CA	1:A:17:THR:C	17	6.5

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,154)	1:B:32:PHE:N	1:B:32:PHE:CA	1:B:32:PHE:C	1:B:33:ILE:N	14	6.5
(1,102)	1:B:16:SEP:C	1:B:17:THR:N	1:B:17:THR:CA	1:B:17:THR:C	10	6.5
(1,402)	1:E:16:SEP:N	1:E:16:SEP:CA	1:E:16:SEP:C	1:E:17:THR:N	2	6.4
(1,360)	1:E:16:SEP:C	1:E:17:THR:N	1:E:17:THR:CA	1:E:17:THR:C	10	6.4
(1,326)	1:D:32:PHE:N	1:D:32:PHE:CA	1:D:32:PHE:C	1:D:33:ILE:N	17	6.4
(1,230)	1:C:16:SEP:N	1:C:16:SEP:CA	1:C:16:SEP:C	1:C:17:THR:N	2	6.4
(1,215)	1:C:50:MET:C	1:C:51:LEU:N	1:C:51:LEU:CA	1:C:51:LEU:C	17	6.4
(1,197)	1:C:31:LEU:C	1:C:32:PHE:N	1:C:32:PHE:CA	1:C:32:PHE:C	4	6.4
(1,58)	1:A:16:SEP:N	1:A:16:SEP:CA	1:A:16:SEP:C	1:A:17:THR:N	2	6.3
(1,369)	1:E:31:LEU:C	1:E:32:PHE:N	1:E:32:PHE:CA	1:E:32:PHE:C	4	6.3
(1,316)	1:D:16:SEP:N	1:D:16:SEP:CA	1:D:16:SEP:C	1:D:17:THR:N	2	6.3
(1,276)	1:D:18:ILE:C	1:D:19:GLU:N	1:D:19:GLU:CA	1:D:19:GLU:C	3	6.3
(1,111)	1:B:31:LEU:C	1:B:32:PHE:N	1:B:32:PHE:CA	1:B:32:PHE:C	4	6.3
(1,102)	1:B:16:SEP:C	1:B:17:THR:N	1:B:17:THR:CA	1:B:17:THR:C	17	6.3
(1,68)	1:A:32:PHE:N	1:A:32:PHE:CA	1:A:32:PHE:C	1:A:33:ILE:N	1	6.2
(1,362)	1:E:18:ILE:C	1:E:19:GLU:N	1:E:19:GLU:CA	1:E:19:GLU:C	3	6.2
(1,240)	1:C:32:PHE:N	1:C:32:PHE:CA	1:C:32:PHE:C	1:C:33:ILE:N	11	6.2
(1,363)	1:E:21:PRO:C	1:E:22:GLN:N	1:E:22:GLN:CA	1:E:22:GLN:C	15	6.1
(1,360)	1:E:16:SEP:C	1:E:17:THR:N	1:E:17:THR:CA	1:E:17:THR:C	13	6.1
(1,283)	1:D:31:LEU:C	1:D:32:PHE:N	1:D:32:PHE:CA	1:D:32:PHE:C	1	6.1
(1,25)	1:A:31:LEU:C	1:A:32:PHE:N	1:A:32:PHE:CA	1:A:32:PHE:C	4	6.1
(1,215)	1:C:50:MET:C	1:C:51:LEU:N	1:C:51:LEU:CA	1:C:51:LEU:C	5	6.1
(1,18)	1:A:18:ILE:C	1:A:19:GLU:N	1:A:19:GLU:CA	1:A:19:GLU:C	3	6.1
(1,16)	1:A:16:SEP:C	1:A:17:THR:N	1:A:17:THR:CA	1:A:17:THR:C	13	6.1
(1,144)	1:B:16:SEP:N	1:B:16:SEP:CA	1:B:16:SEP:C	1:B:17:THR:N	2	6.1
(1,387)	1:E:50:MET:C	1:E:51:LEU:N	1:E:51:LEU:CA	1:E:51:LEU:C	5	6.0
(1,274)	1:D:16:SEP:C	1:D:17:THR:N	1:D:17:THR:CA	1:D:17:THR:C	13	6.0
(1,188)	1:C:16:SEP:C	1:C:17:THR:N	1:C:17:THR:CA	1:C:17:THR:C	9	6.0
(1,188)	1:C:16:SEP:C	1:C:17:THR:N	1:C:17:THR:CA	1:C:17:THR:C	13	6.0
(1,374)	1:E:36:CYS:C	1:E:37:LEU:N	1:E:37:LEU:CA	1:E:37:LEU:C	20	5.9
(1,283)	1:D:31:LEU:C	1:D:32:PHE:N	1:D:32:PHE:CA	1:D:32:PHE:C	4	5.9
(1,274)	1:D:16:SEP:C	1:D:17:THR:N	1:D:17:THR:CA	1:D:17:THR:C	9	5.9
(1,16)	1:A:16:SEP:C	1:A:17:THR:N	1:A:17:THR:CA	1:A:17:THR:C	9	5.9
(1,102)	1:B:16:SEP:C	1:B:17:THR:N	1:B:17:THR:CA	1:B:17:THR:C	13	5.9
(1,43)	1:A:50:MET:C	1:A:51:LEU:N	1:A:51:LEU:CA	1:A:51:LEU:C	17	5.8
(1,360)	1:E:16:SEP:C	1:E:17:THR:N	1:E:17:THR:CA	1:E:17:THR:C	9	5.8
(1,129)	1:B:50:MET:C	1:B:51:LEU:N	1:B:51:LEU:CA	1:B:51:LEU:C	5	5.8
(1,190)	1:C:18:ILE:C	1:C:19:GLU:N	1:C:19:GLU:CA	1:C:19:GLU:C	3	5.7
(1,111)	1:B:31:LEU:C	1:B:32:PHE:N	1:B:32:PHE:CA	1:B:32:PHE:C	1	5.7
(1,403)	1:E:17:THR:N	1:E:17:THR:CA	1:E:17:THR:C	1:E:18:ILE:N	16	5.6
(1,301)	1:D:50:MET:C	1:D:51:LEU:N	1:D:51:LEU:CA	1:D:51:LEU:C	5	5.6
(1,231)	1:C:17:THR:N	1:C:17:THR:CA	1:C:17:THR:C	1:C:18:ILE:N	16	5.6
(1,18)	1:A:18:ILE:C	1:A:19:GLU:N	1:A:19:GLU:CA	1:A:19:GLU:C	17	5.6
(1,104)	1:B:18:ILE:C	1:B:19:GLU:N	1:B:19:GLU:CA	1:B:19:GLU:C	17	5.6
(1,59)	1:A:17:THR:N	1:A:17:THR:CA	1:A:17:THR:C	1:A:18:ILE:N	16	5.5
(1,43)	1:A:50:MET:C	1:A:51:LEU:N	1:A:51:LEU:CA	1:A:51:LEU:C	5	5.5
(1,317)	1:D:17:THR:N	1:D:17:THR:CA	1:D:17:THR:C	1:D:18:ILE:N	16	5.5
(1,145)	1:B:17:THR:N	1:B:17:THR:CA	1:B:17:THR:C	1:B:18:ILE:N	16	5.5
(1,278)	1:D:22:GLN:C	1:D:23:GLN:N	1:D:23:GLN:CA	1:D:23:GLN:C	4	5.4
(1,102)	1:B:16:SEP:C	1:B:17:THR:N	1:B:17:THR:CA	1:B:17:THR:C	9	5.4
(1,161)	1:B:39:LEU:N	1:B:39:LEU:CA	1:B:39:LEU:C	1:B:40:ILE:N	7	5.3

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,147)	1:B:19:GLU:N	1:B:19:GLU:CA	1:B:19:GLU:C	1:B:20:MET:N	1	5.3
(1,105)	1:B:21:PRO:C	1:B:22:GLN:N	1:B:22:GLN:CA	1:B:22:GLN:C	15	5.2
(1,68)	1:A:32:PHE:N	1:A:32:PHE:CA	1:A:32:PHE:C	1:A:33:ILE:N	17	5.1
(1,61)	1:A:19:GLU:N	1:A:19:GLU:CA	1:A:19:GLU:C	1:A:20:MET:N	1	5.1
(1,36)	1:A:42:LEU:C	1:A:43:LEU:N	1:A:43:LEU:CA	1:A:43:LEU:C	2	5.1
(1,233)	1:C:19:GLU:N	1:C:19:GLU:CA	1:C:19:GLU:C	1:C:20:MET:N	1	5.1
(1,208)	1:C:42:LEU:C	1:C:43:LEU:N	1:C:43:LEU:CA	1:C:43:LEU:C	10	5.1
(1,405)	1:E:19:GLU:N	1:E:19:GLU:CA	1:E:19:GLU:C	1:E:20:MET:N	1	5.0
(1,319)	1:D:19:GLU:N	1:D:19:GLU:CA	1:D:19:GLU:C	1:D:20:MET:N	1	5.0
(1,283)	1:D:31:LEU:C	1:D:32:PHE:N	1:D:32:PHE:CA	1:D:32:PHE:C	20	5.0
(1,63)	1:A:23:GLN:N	1:A:23:GLN:CA	1:A:23:GLN:C	1:A:24:ALA:N	18	4.9
(1,240)	1:C:32:PHE:N	1:C:32:PHE:CA	1:C:32:PHE:C	1:C:33:ILE:N	14	4.8
(1,197)	1:C:31:LEU:C	1:C:32:PHE:N	1:C:32:PHE:CA	1:C:32:PHE:C	20	4.8
(1,192)	1:C:22:GLN:C	1:C:23:GLN:N	1:C:23:GLN:CA	1:C:23:GLN:C	16	4.8
(1,412)	1:E:32:PHE:N	1:E:32:PHE:CA	1:E:32:PHE:C	1:E:33:ILE:N	17	4.7
(1,407)	1:E:23:GLN:N	1:E:23:GLN:CA	1:E:23:GLN:C	1:E:24:ALA:N	18	4.7
(1,277)	1:D:21:PRO:C	1:D:22:GLN:N	1:D:22:GLN:CA	1:D:22:GLN:C	15	4.7
(1,111)	1:B:31:LEU:C	1:B:32:PHE:N	1:B:32:PHE:CA	1:B:32:PHE:C	20	4.6
(1,412)	1:E:32:PHE:N	1:E:32:PHE:CA	1:E:32:PHE:C	1:E:33:ILE:N	3	4.5
(1,208)	1:C:42:LEU:C	1:C:43:LEU:N	1:C:43:LEU:CA	1:C:43:LEU:C	2	4.5
(1,68)	1:A:32:PHE:N	1:A:32:PHE:CA	1:A:32:PHE:C	1:A:33:ILE:N	3	4.4
(1,244)	1:C:36:CYS:N	1:C:36:CYS:CA	1:C:36:CYS:C	1:C:37:LEU:N	14	4.4
(1,240)	1:C:32:PHE:N	1:C:32:PHE:CA	1:C:32:PHE:C	1:C:33:ILE:N	3	4.4
(1,240)	1:C:32:PHE:N	1:C:32:PHE:CA	1:C:32:PHE:C	1:C:33:ILE:N	17	4.4
(1,161)	1:B:39:LEU:N	1:B:39:LEU:CA	1:B:39:LEU:C	1:B:40:ILE:N	8	4.4
(1,43)	1:A:50:MET:C	1:A:51:LEU:N	1:A:51:LEU:CA	1:A:51:LEU:C	3	4.3
(1,369)	1:E:31:LEU:C	1:E:32:PHE:N	1:E:32:PHE:CA	1:E:32:PHE:C	20	4.3
(1,326)	1:D:32:PHE:N	1:D:32:PHE:CA	1:D:32:PHE:C	1:D:33:ILE:N	3	4.3
(1,194)	1:C:28:LEU:C	1:C:29:GLN:N	1:C:29:GLN:CA	1:C:29:GLN:C	7	4.3
(1,18)	1:A:18:ILE:C	1:A:19:GLU:N	1:A:19:GLU:CA	1:A:19:GLU:C	13	4.3
(1,154)	1:B:32:PHE:N	1:B:32:PHE:CA	1:B:32:PHE:C	1:B:33:ILE:N	17	4.3
(1,149)	1:B:23:GLN:N	1:B:23:GLN:CA	1:B:23:GLN:C	1:B:24:ALA:N	18	4.3
(1,105)	1:B:21:PRO:C	1:B:22:GLN:N	1:B:22:GLN:CA	1:B:22:GLN:C	14	4.3
(1,104)	1:B:18:ILE:C	1:B:19:GLU:N	1:B:19:GLU:CA	1:B:19:GLU:C	13	4.3
(1,416)	1:E:36:CYS:N	1:E:36:CYS:CA	1:E:36:CYS:C	1:E:37:LEU:N	11	4.2
(1,276)	1:D:18:ILE:C	1:D:19:GLU:N	1:D:19:GLU:CA	1:D:19:GLU:C	13	4.2
(1,20)	1:A:22:GLN:C	1:A:23:GLN:N	1:A:23:GLN:CA	1:A:23:GLN:C	16	4.2
(1,362)	1:E:18:ILE:C	1:E:19:GLU:N	1:E:19:GLU:CA	1:E:19:GLU:C	13	4.1
(1,247)	1:C:39:LEU:N	1:C:39:LEU:CA	1:C:39:LEU:C	1:C:40:ILE:N	9	4.1
(1,240)	1:C:32:PHE:N	1:C:32:PHE:CA	1:C:32:PHE:C	1:C:33:ILE:N	10	4.1
(1,191)	1:C:21:PRO:C	1:C:22:GLN:N	1:C:22:GLN:CA	1:C:22:GLN:C	14	4.1
(1,19)	1:A:21:PRO:C	1:A:22:GLN:N	1:A:22:GLN:CA	1:A:22:GLN:C	14	4.1
(1,161)	1:B:39:LEU:N	1:B:39:LEU:CA	1:B:39:LEU:C	1:B:40:ILE:N	9	4.1
(1,108)	1:B:28:LEU:C	1:B:29:GLN:N	1:B:29:GLN:CA	1:B:29:GLN:C	7	4.1
(1,416)	1:E:36:CYS:N	1:E:36:CYS:CA	1:E:36:CYS:C	1:E:37:LEU:N	5	4.0
(1,326)	1:D:32:PHE:N	1:D:32:PHE:CA	1:D:32:PHE:C	1:D:33:ILE:N	10	4.0
(1,322)	1:D:24:ALA:N	1:D:24:ALA:CA	1:D:24:ALA:C	1:D:25:ARG:N	16	4.0
(1,190)	1:C:18:ILE:C	1:C:19:GLU:N	1:C:19:GLU:CA	1:C:19:GLU:C	13	4.0
(1,154)	1:B:32:PHE:N	1:B:32:PHE:CA	1:B:32:PHE:C	1:B:33:ILE:N	3	4.0
(1,150)	1:B:24:ALA:N	1:B:24:ALA:CA	1:B:24:ALA:C	1:B:25:ARG:N	16	4.0
(1,408)	1:E:24:ALA:N	1:E:24:ALA:CA	1:E:24:ALA:C	1:E:25:ARG:N	16	3.9

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,321)	1:D:23:GLN:N	1:D:23:GLN:CA	1:D:23:GLN:C	1:D:24:ALA:N	18	3.9
(1,215)	1:C:50:MET:C	1:C:51:LEU:N	1:C:51:LEU:CA	1:C:51:LEU:C	4	3.9
(1,129)	1:B:50:MET:C	1:B:51:LEU:N	1:B:51:LEU:CA	1:B:51:LEU:C	4	3.9
(1,116)	1:B:36:CYS:C	1:B:37:LEU:N	1:B:37:LEU:CA	1:B:37:LEU:C	14	3.9
(1,301)	1:D:50:MET:C	1:D:51:LEU:N	1:D:51:LEU:CA	1:D:51:LEU:C	9	3.8
(1,188)	1:C:16:SEP:C	1:C:17:THR:N	1:C:17:THR:CA	1:C:17:THR:C	6	3.8
(1,154)	1:B:32:PHE:N	1:B:32:PHE:CA	1:B:32:PHE:C	1:B:33:ILE:N	4	3.8
(1,129)	1:B:50:MET:C	1:B:51:LEU:N	1:B:51:LEU:CA	1:B:51:LEU:C	9	3.8
(1,43)	1:A:50:MET:C	1:A:51:LEU:N	1:A:51:LEU:CA	1:A:51:LEU:C	4	3.7
(1,43)	1:A:50:MET:C	1:A:51:LEU:N	1:A:51:LEU:CA	1:A:51:LEU:C	9	3.7
(1,387)	1:E:50:MET:C	1:E:51:LEU:N	1:E:51:LEU:CA	1:E:51:LEU:C	3	3.7
(1,387)	1:E:50:MET:C	1:E:51:LEU:N	1:E:51:LEU:CA	1:E:51:LEU:C	4	3.7
(1,387)	1:E:50:MET:C	1:E:51:LEU:N	1:E:51:LEU:CA	1:E:51:LEU:C	9	3.7
(1,274)	1:D:16:SEP:C	1:D:17:THR:N	1:D:17:THR:CA	1:D:17:THR:C	6	3.7
(1,262)	1:D:4:VAL:C	1:D:5:GLN:N	1:D:5:GLN:CA	1:D:5:GLN:C	13	3.7
(1,129)	1:B:50:MET:C	1:B:51:LEU:N	1:B:51:LEU:CA	1:B:51:LEU:C	6	3.7
(1,102)	1:B:16:SEP:C	1:B:17:THR:N	1:B:17:THR:CA	1:B:17:THR:C	6	3.7
(1,68)	1:A:32:PHE:N	1:A:32:PHE:CA	1:A:32:PHE:C	1:A:33:ILE:N	4	3.6
(1,429)	1:E:50:MET:N	1:E:50:MET:CA	1:E:50:MET:C	1:E:51:LEU:N	2	3.6
(1,412)	1:E:32:PHE:N	1:E:32:PHE:CA	1:E:32:PHE:C	1:E:33:ILE:N	10	3.6
(1,387)	1:E:50:MET:C	1:E:51:LEU:N	1:E:51:LEU:CA	1:E:51:LEU:C	6	3.6
(1,360)	1:E:16:SEP:C	1:E:17:THR:N	1:E:17:THR:CA	1:E:17:THR:C	6	3.6
(1,301)	1:D:50:MET:C	1:D:51:LEU:N	1:D:51:LEU:CA	1:D:51:LEU:C	4	3.6
(1,274)	1:D:16:SEP:C	1:D:17:THR:N	1:D:17:THR:CA	1:D:17:THR:C	14	3.6
(1,215)	1:C:50:MET:C	1:C:51:LEU:N	1:C:51:LEU:CA	1:C:51:LEU:C	9	3.6
(1,16)	1:A:16:SEP:C	1:A:17:THR:N	1:A:17:THR:CA	1:A:17:THR:C	6	3.6
(1,146)	1:B:18:ILE:N	1:B:18:ILE:CA	1:B:18:ILE:C	1:B:19:GLU:N	11	3.6
(1,43)	1:A:50:MET:C	1:A:51:LEU:N	1:A:51:LEU:CA	1:A:51:LEU:C	6	3.5
(1,412)	1:E:32:PHE:N	1:E:32:PHE:CA	1:E:32:PHE:C	1:E:33:ILE:N	4	3.5
(1,404)	1:E:18:ILE:N	1:E:18:ILE:CA	1:E:18:ILE:C	1:E:19:GLU:N	11	3.5
(1,366)	1:E:28:LEU:C	1:E:29:GLN:N	1:E:29:GLN:CA	1:E:29:GLN:C	7	3.5
(1,360)	1:E:16:SEP:C	1:E:17:THR:N	1:E:17:THR:CA	1:E:17:THR:C	14	3.5
(1,25)	1:A:31:LEU:C	1:A:32:PHE:N	1:A:32:PHE:CA	1:A:32:PHE:C	20	3.5
(1,22)	1:A:28:LEU:C	1:A:29:GLN:N	1:A:29:GLN:CA	1:A:29:GLN:C	7	3.5
(1,215)	1:C:50:MET:C	1:C:51:LEU:N	1:C:51:LEU:CA	1:C:51:LEU:C	6	3.5
(1,16)	1:A:16:SEP:C	1:A:17:THR:N	1:A:17:THR:CA	1:A:17:THR:C	14	3.5
(1,277)	1:D:21:PRO:C	1:D:22:GLN:N	1:D:22:GLN:CA	1:D:22:GLN:C	14	3.4
(1,240)	1:C:32:PHE:N	1:C:32:PHE:CA	1:C:32:PHE:C	1:C:33:ILE:N	4	3.4
(1,232)	1:C:18:ILE:N	1:C:18:ILE:CA	1:C:18:ILE:C	1:C:19:GLU:N	11	3.4
(1,188)	1:C:16:SEP:C	1:C:17:THR:N	1:C:17:THR:CA	1:C:17:THR:C	14	3.4
(1,330)	1:D:36:CYS:N	1:D:36:CYS:CA	1:D:36:CYS:C	1:D:37:LEU:N	11	3.3
(1,326)	1:D:32:PHE:N	1:D:32:PHE:CA	1:D:32:PHE:C	1:D:33:ILE:N	4	3.3
(1,154)	1:B:32:PHE:N	1:B:32:PHE:CA	1:B:32:PHE:C	1:B:33:ILE:N	10	3.3
(1,148)	1:B:22:GLN:N	1:B:22:GLN:CA	1:B:22:GLN:C	1:B:23:GLN:N	14	3.3
(1,68)	1:A:32:PHE:N	1:A:32:PHE:CA	1:A:32:PHE:C	1:A:33:ILE:N	10	3.2
(1,363)	1:E:21:PRO:C	1:E:22:GLN:N	1:E:22:GLN:CA	1:E:22:GLN:C	14	3.2
(1,301)	1:D:50:MET:C	1:D:51:LEU:N	1:D:51:LEU:CA	1:D:51:LEU:C	6	3.2
(1,280)	1:D:28:LEU:C	1:D:29:GLN:N	1:D:29:GLN:CA	1:D:29:GLN:C	7	3.2
(1,247)	1:C:39:LEU:N	1:C:39:LEU:CA	1:C:39:LEU:C	1:C:40:ILE:N	17	3.2
(1,154)	1:B:32:PHE:N	1:B:32:PHE:CA	1:B:32:PHE:C	1:B:33:ILE:N	9	3.2
(1,102)	1:B:16:SEP:C	1:B:17:THR:N	1:B:17:THR:CA	1:B:17:THR:C	14	3.2

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,244)	1:C:36:CYS:N	1:C:36:CYS:CA	1:C:36:CYS:C	1:C:37:LEU:N	20	3.1
(1,236)	1:C:24:ALA:N	1:C:24:ALA:CA	1:C:24:ALA:C	1:C:25:ARG:N	5	3.1
(1,176)	1:C:4:VAL:C	1:C:5:GLN:N	1:C:5:GLN:CA	1:C:5:GLN:C	13	3.1
(1,161)	1:B:39:LEU:N	1:B:39:LEU:CA	1:B:39:LEU:C	1:B:40:ILE:N	4	3.1
(1,106)	1:B:22:GLN:C	1:B:23:GLN:N	1:B:23:GLN:CA	1:B:23:GLN:C	5	3.1
(1,235)	1:C:23:GLN:N	1:C:23:GLN:CA	1:C:23:GLN:C	1:C:24:ALA:N	18	3.0
(1,208)	1:C:42:LEU:C	1:C:43:LEU:N	1:C:43:LEU:CA	1:C:43:LEU:C	5	3.0
(1,192)	1:C:22:GLN:C	1:C:23:GLN:N	1:C:23:GLN:CA	1:C:23:GLN:C	5	3.0
(1,408)	1:E:24:ALA:N	1:E:24:ALA:CA	1:E:24:ALA:C	1:E:25:ARG:N	5	2.9
(1,208)	1:C:42:LEU:C	1:C:43:LEU:N	1:C:43:LEU:CA	1:C:43:LEU:C	4	2.9
(1,208)	1:C:42:LEU:C	1:C:43:LEU:N	1:C:43:LEU:CA	1:C:43:LEU:C	15	2.9
(1,188)	1:C:16:SEP:C	1:C:17:THR:N	1:C:17:THR:CA	1:C:17:THR:C	1	2.9
(1,64)	1:A:24:ALA:N	1:A:24:ALA:CA	1:A:24:ALA:C	1:A:25:ARG:N	5	2.8
(1,406)	1:E:22:GLN:N	1:E:22:GLN:CA	1:E:22:GLN:C	1:E:23:GLN:N	14	2.8
(1,402)	1:E:16:SEP:N	1:E:16:SEP:CA	1:E:16:SEP:C	1:E:17:THR:N	8	2.8
(1,360)	1:E:16:SEP:C	1:E:17:THR:N	1:E:17:THR:CA	1:E:17:THR:C	1	2.8
(1,294)	1:D:42:LEU:C	1:D:43:LEU:N	1:D:43:LEU:CA	1:D:43:LEU:C	15	2.8
(1,240)	1:C:32:PHE:N	1:C:32:PHE:CA	1:C:32:PHE:C	1:C:33:ILE:N	9	2.8
(1,230)	1:C:16:SEP:N	1:C:16:SEP:CA	1:C:16:SEP:C	1:C:17:THR:N	8	2.8
(1,208)	1:C:42:LEU:C	1:C:43:LEU:N	1:C:43:LEU:CA	1:C:43:LEU:C	20	2.8
(1,122)	1:B:42:LEU:C	1:B:43:LEU:N	1:B:43:LEU:CA	1:B:43:LEU:C	4	2.8
(1,419)	1:E:39:LEU:N	1:E:39:LEU:CA	1:E:39:LEU:C	1:E:40:ILE:N	6	2.7
(1,318)	1:D:18:ILE:N	1:D:18:ILE:CA	1:D:18:ILE:C	1:D:19:GLU:N	11	2.7
(1,247)	1:C:39:LEU:N	1:C:39:LEU:CA	1:C:39:LEU:C	1:C:40:ILE:N	1	2.7
(1,247)	1:C:39:LEU:N	1:C:39:LEU:CA	1:C:39:LEU:C	1:C:40:ILE:N	6	2.7
(1,20)	1:A:22:GLN:C	1:A:23:GLN:N	1:A:23:GLN:CA	1:A:23:GLN:C	5	2.7
(1,68)	1:A:32:PHE:N	1:A:32:PHE:CA	1:A:32:PHE:C	1:A:33:ILE:N	9	2.6
(1,36)	1:A:42:LEU:C	1:A:43:LEU:N	1:A:43:LEU:CA	1:A:43:LEU:C	3	2.6
(1,316)	1:D:16:SEP:N	1:D:16:SEP:CA	1:D:16:SEP:C	1:D:17:THR:N	8	2.6
(1,23)	1:A:29:GLN:C	1:A:30:ASN:N	1:A:30:ASN:CA	1:A:30:ASN:C	13	2.6
(1,144)	1:B:16:SEP:N	1:B:16:SEP:CA	1:B:16:SEP:C	1:B:17:THR:N	8	2.6
(1,122)	1:B:42:LEU:C	1:B:43:LEU:N	1:B:43:LEU:CA	1:B:43:LEU:C	15	2.6
(1,36)	1:A:42:LEU:C	1:A:43:LEU:N	1:A:43:LEU:CA	1:A:43:LEU:C	18	2.5
(1,322)	1:D:24:ALA:N	1:D:24:ALA:CA	1:D:24:ALA:C	1:D:25:ARG:N	5	2.5
(1,294)	1:D:42:LEU:C	1:D:43:LEU:N	1:D:43:LEU:CA	1:D:43:LEU:C	20	2.5
(1,144)	1:B:16:SEP:N	1:B:16:SEP:CA	1:B:16:SEP:C	1:B:17:THR:N	13	2.5
(1,122)	1:B:42:LEU:C	1:B:43:LEU:N	1:B:43:LEU:CA	1:B:43:LEU:C	3	2.5
(1,90)	1:B:4:VAL:C	1:B:5:GLN:N	1:B:5:GLN:CA	1:B:5:GLN:C	13	2.4
(1,58)	1:A:16:SEP:N	1:A:16:SEP:CA	1:A:16:SEP:C	1:A:17:THR:N	8	2.4
(1,58)	1:A:16:SEP:N	1:A:16:SEP:CA	1:A:16:SEP:C	1:A:17:THR:N	13	2.4
(1,419)	1:E:39:LEU:N	1:E:39:LEU:CA	1:E:39:LEU:C	1:E:40:ILE:N	16	2.4
(1,4)	1:A:4:VAL:C	1:A:5:GLN:N	1:A:5:GLN:CA	1:A:5:GLN:C	13	2.4
(1,326)	1:D:32:PHE:N	1:D:32:PHE:CA	1:D:32:PHE:C	1:D:33:ILE:N	9	2.4
(1,301)	1:D:50:MET:C	1:D:51:LEU:N	1:D:51:LEU:CA	1:D:51:LEU:C	16	2.4
(1,16)	1:A:16:SEP:C	1:A:17:THR:N	1:A:17:THR:CA	1:A:17:THR:C	1	2.4
(1,374)	1:E:36:CYS:C	1:E:37:LEU:N	1:E:37:LEU:CA	1:E:37:LEU:C	6	2.3
(1,36)	1:A:42:LEU:C	1:A:43:LEU:N	1:A:43:LEU:CA	1:A:43:LEU:C	5	2.3
(1,36)	1:A:42:LEU:C	1:A:43:LEU:N	1:A:43:LEU:CA	1:A:43:LEU:C	19	2.3
(1,348)	1:E:4:VAL:C	1:E:5:GLN:N	1:E:5:GLN:CA	1:E:5:GLN:C	13	2.3
(1,301)	1:D:50:MET:C	1:D:51:LEU:N	1:D:51:LEU:CA	1:D:51:LEU:C	12	2.3
(1,288)	1:D:36:CYS:C	1:D:37:LEU:N	1:D:37:LEU:CA	1:D:37:LEU:C	19	2.3

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,109)	1:B:29:GLN:C	1:B:30:ASN:N	1:B:30:ASN:CA	1:B:30:ASN:C	13	2.3
(1,60)	1:A:18:ILE:N	1:A:18:ILE:CA	1:A:18:ILE:C	1:A:19:GLU:N	11	2.2
(1,43)	1:A:50:MET:C	1:A:51:LEU:N	1:A:51:LEU:CA	1:A:51:LEU:C	12	2.2
(1,316)	1:D:16:SEP:N	1:D:16:SEP:CA	1:D:16:SEP:C	1:D:17:THR:N	13	2.2
(1,301)	1:D:50:MET:C	1:D:51:LEU:N	1:D:51:LEU:CA	1:D:51:LEU:C	11	2.2
(1,278)	1:D:22:GLN:C	1:D:23:GLN:N	1:D:23:GLN:CA	1:D:23:GLN:C	5	2.2
(1,274)	1:D:16:SEP:C	1:D:17:THR:N	1:D:17:THR:CA	1:D:17:THR:C	1	2.2
(1,230)	1:C:16:SEP:N	1:C:16:SEP:CA	1:C:16:SEP:C	1:C:17:THR:N	13	2.2
(1,215)	1:C:50:MET:C	1:C:51:LEU:N	1:C:51:LEU:CA	1:C:51:LEU:C	12	2.2
(1,102)	1:B:16:SEP:C	1:B:17:THR:N	1:B:17:THR:CA	1:B:17:THR:C	1	2.2
(1,412)	1:E:32:PHE:N	1:E:32:PHE:CA	1:E:32:PHE:C	1:E:33:ILE:N	9	2.1
(1,402)	1:E:16:SEP:N	1:E:16:SEP:CA	1:E:16:SEP:C	1:E:17:THR:N	13	2.1
(1,387)	1:E:50:MET:C	1:E:51:LEU:N	1:E:51:LEU:CA	1:E:51:LEU:C	16	2.1
(1,387)	1:E:50:MET:C	1:E:51:LEU:N	1:E:51:LEU:CA	1:E:51:LEU:C	19	2.1
(1,364)	1:E:22:GLN:C	1:E:23:GLN:N	1:E:23:GLN:CA	1:E:23:GLN:C	5	2.1
(1,36)	1:A:42:LEU:C	1:A:43:LEU:N	1:A:43:LEU:CA	1:A:43:LEU:C	10	2.1
(1,236)	1:C:24:ALA:N	1:C:24:ALA:CA	1:C:24:ALA:C	1:C:25:ARG:N	11	2.1
(1,195)	1:C:29:GLN:C	1:C:30:ASN:N	1:C:30:ASN:CA	1:C:30:ASN:C	13	2.1
(1,129)	1:B:50:MET:C	1:B:51:LEU:N	1:B:51:LEU:CA	1:B:51:LEU:C	12	2.1
(1,122)	1:B:42:LEU:C	1:B:43:LEU:N	1:B:43:LEU:CA	1:B:43:LEU:C	5	2.1
(1,408)	1:E:24:ALA:N	1:E:24:ALA:CA	1:E:24:ALA:C	1:E:25:ARG:N	11	2.0
(1,387)	1:E:50:MET:C	1:E:51:LEU:N	1:E:51:LEU:CA	1:E:51:LEU:C	12	2.0
(1,367)	1:E:29:GLN:C	1:E:30:ASN:N	1:E:30:ASN:CA	1:E:30:ASN:C	13	2.0
(1,36)	1:A:42:LEU:C	1:A:43:LEU:N	1:A:43:LEU:CA	1:A:43:LEU:C	20	2.0
(1,281)	1:D:29:GLN:C	1:D:30:ASN:N	1:D:30:ASN:CA	1:D:30:ASN:C	13	2.0
(1,215)	1:C:50:MET:C	1:C:51:LEU:N	1:C:51:LEU:CA	1:C:51:LEU:C	16	2.0
(1,75)	1:A:39:LEU:N	1:A:39:LEU:CA	1:A:39:LEU:C	1:A:40:ILE:N	6	1.9
(1,419)	1:E:39:LEU:N	1:E:39:LEU:CA	1:E:39:LEU:C	1:E:40:ILE:N	3	1.9
(1,419)	1:E:39:LEU:N	1:E:39:LEU:CA	1:E:39:LEU:C	1:E:40:ILE:N	7	1.9
(1,387)	1:E:50:MET:C	1:E:51:LEU:N	1:E:51:LEU:CA	1:E:51:LEU:C	11	1.9
(1,301)	1:D:50:MET:C	1:D:51:LEU:N	1:D:51:LEU:CA	1:D:51:LEU:C	19	1.9
(1,262)	1:D:4:VAL:C	1:D:5:GLN:N	1:D:5:GLN:CA	1:D:5:GLN:C	3	1.9
(1,215)	1:C:50:MET:C	1:C:51:LEU:N	1:C:51:LEU:CA	1:C:51:LEU:C	11	1.9
(1,362)	1:E:18:ILE:C	1:E:19:GLU:N	1:E:19:GLU:CA	1:E:19:GLU:C	9	1.8
(1,322)	1:D:24:ALA:N	1:D:24:ALA:CA	1:D:24:ALA:C	1:D:25:ARG:N	11	1.8
(1,208)	1:C:42:LEU:C	1:C:43:LEU:N	1:C:43:LEU:CA	1:C:43:LEU:C	3	1.8
(1,189)	1:C:17:THR:C	1:C:18:ILE:N	1:C:18:ILE:CA	1:C:18:ILE:C	7	1.8
(1,61)	1:A:19:GLU:N	1:A:19:GLU:CA	1:A:19:GLU:C	1:A:20:MET:N	6	1.7
(1,279)	1:D:23:GLN:C	1:D:24:ALA:N	1:D:24:ALA:CA	1:D:24:ALA:C	2	1.7
(1,208)	1:C:42:LEU:C	1:C:43:LEU:N	1:C:43:LEU:CA	1:C:43:LEU:C	19	1.7
(1,17)	1:A:17:THR:C	1:A:18:ILE:N	1:A:18:ILE:CA	1:A:18:ILE:C	7	1.7
(1,122)	1:B:42:LEU:C	1:B:43:LEU:N	1:B:43:LEU:CA	1:B:43:LEU:C	18	1.7
(1,103)	1:B:17:THR:C	1:B:18:ILE:N	1:B:18:ILE:CA	1:B:18:ILE:C	7	1.7
(1,85)	1:A:50:MET:N	1:A:50:MET:CA	1:A:50:MET:C	1:A:51:LEU:N	16	1.6
(1,62)	1:A:22:GLN:N	1:A:22:GLN:CA	1:A:22:GLN:C	1:A:23:GLN:N	14	1.6
(1,43)	1:A:50:MET:C	1:A:51:LEU:N	1:A:51:LEU:CA	1:A:51:LEU:C	11	1.6
(1,43)	1:A:50:MET:C	1:A:51:LEU:N	1:A:51:LEU:CA	1:A:51:LEU:C	19	1.6
(1,380)	1:E:42:LEU:C	1:E:43:LEU:N	1:E:43:LEU:CA	1:E:43:LEU:C	12	1.6
(1,367)	1:E:29:GLN:C	1:E:30:ASN:N	1:E:30:ASN:CA	1:E:30:ASN:C	12	1.6
(1,36)	1:A:42:LEU:C	1:A:43:LEU:N	1:A:43:LEU:CA	1:A:43:LEU:C	4	1.6
(1,294)	1:D:42:LEU:C	1:D:43:LEU:N	1:D:43:LEU:CA	1:D:43:LEU:C	12	1.6

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,234)	1:C:22:GLN:N	1:C:22:GLN:CA	1:C:22:GLN:C	1:C:23:GLN:N	14	1.6
(1,233)	1:C:19:GLU:N	1:C:19:GLU:CA	1:C:19:GLU:C	1:C:20:MET:N	6	1.6
(1,129)	1:B:50:MET:C	1:B:51:LEU:N	1:B:51:LEU:CA	1:B:51:LEU:C	11	1.6
(1,129)	1:B:50:MET:C	1:B:51:LEU:N	1:B:51:LEU:CA	1:B:51:LEU:C	19	1.6
(1,107)	1:B:23:GLN:C	1:B:24:ALA:N	1:B:24:ALA:CA	1:B:24:ALA:C	2	1.6
(1,104)	1:B:18:ILE:C	1:B:19:GLU:N	1:B:19:GLU:CA	1:B:19:GLU:C	9	1.6
(1,419)	1:E:39:LEU:N	1:E:39:LEU:CA	1:E:39:LEU:C	1:E:40:ILE:N	13	1.5
(1,405)	1:E:19:GLU:N	1:E:19:GLU:CA	1:E:19:GLU:C	1:E:20:MET:N	6	1.5
(1,319)	1:D:19:GLU:N	1:D:19:GLU:CA	1:D:19:GLU:C	1:D:20:MET:N	6	1.5
(1,294)	1:D:42:LEU:C	1:D:43:LEU:N	1:D:43:LEU:CA	1:D:43:LEU:C	16	1.5
(1,275)	1:D:17:THR:C	1:D:18:ILE:N	1:D:18:ILE:CA	1:D:18:ILE:C	7	1.5
(1,247)	1:C:39:LEU:N	1:C:39:LEU:CA	1:C:39:LEU:C	1:C:40:ILE:N	2	1.5
(1,147)	1:B:19:GLU:N	1:B:19:GLU:CA	1:B:19:GLU:C	1:B:20:MET:N	6	1.5
(1,64)	1:A:24:ALA:N	1:A:24:ALA:CA	1:A:24:ALA:C	1:A:25:ARG:N	11	1.4
(1,361)	1:E:17:THR:C	1:E:18:ILE:N	1:E:18:ILE:CA	1:E:18:ILE:C	7	1.4
(1,215)	1:C:50:MET:C	1:C:51:LEU:N	1:C:51:LEU:CA	1:C:51:LEU:C	19	1.4
(1,190)	1:C:18:ILE:C	1:C:19:GLU:N	1:C:19:GLU:CA	1:C:19:GLU:C	9	1.4
(1,129)	1:B:50:MET:C	1:B:51:LEU:N	1:B:51:LEU:CA	1:B:51:LEU:C	16	1.4
(1,380)	1:E:42:LEU:C	1:E:43:LEU:N	1:E:43:LEU:CA	1:E:43:LEU:C	20	1.3
(1,320)	1:D:22:GLN:N	1:D:22:GLN:CA	1:D:22:GLN:C	1:D:23:GLN:N	14	1.3
(1,30)	1:A:36:CYS:C	1:A:37:LEU:N	1:A:37:LEU:CA	1:A:37:LEU:C	19	1.3
(1,294)	1:D:42:LEU:C	1:D:43:LEU:N	1:D:43:LEU:CA	1:D:43:LEU:C	13	1.3
(1,276)	1:D:18:ILE:C	1:D:19:GLU:N	1:D:19:GLU:CA	1:D:19:GLU:C	9	1.3
(1,21)	1:A:23:GLN:C	1:A:24:ALA:N	1:A:24:ALA:CA	1:A:24:ALA:C	2	1.3
(1,202)	1:C:36:CYS:C	1:C:37:LEU:N	1:C:37:LEU:CA	1:C:37:LEU:C	19	1.3
(1,4)	1:A:4:VAL:C	1:A:5:GLN:N	1:A:5:GLN:CA	1:A:5:GLN:C	3	1.2
(1,374)	1:E:36:CYS:C	1:E:37:LEU:N	1:E:37:LEU:CA	1:E:37:LEU:C	13	1.2
(1,374)	1:E:36:CYS:C	1:E:37:LEU:N	1:E:37:LEU:CA	1:E:37:LEU:C	18	1.2
(1,36)	1:A:42:LEU:C	1:A:43:LEU:N	1:A:43:LEU:CA	1:A:43:LEU:C	9	1.2
(1,279)	1:D:23:GLN:C	1:D:24:ALA:N	1:D:24:ALA:CA	1:D:24:ALA:C	14	1.2
(1,21)	1:A:23:GLN:C	1:A:24:ALA:N	1:A:24:ALA:CA	1:A:24:ALA:C	14	1.2
(1,208)	1:C:42:LEU:C	1:C:43:LEU:N	1:C:43:LEU:CA	1:C:43:LEU:C	9	1.2
(1,18)	1:A:18:ILE:C	1:A:19:GLU:N	1:A:19:GLU:CA	1:A:19:GLU:C	9	1.2
(1,150)	1:B:24:ALA:N	1:B:24:ALA:CA	1:B:24:ALA:C	1:B:25:ARG:N	11	1.2
(1,365)	1:E:23:GLN:C	1:E:24:ALA:N	1:E:24:ALA:CA	1:E:24:ALA:C	2	1.1
(1,36)	1:A:42:LEU:C	1:A:43:LEU:N	1:A:43:LEU:CA	1:A:43:LEU:C	6	1.1
(1,36)	1:A:42:LEU:C	1:A:43:LEU:N	1:A:43:LEU:CA	1:A:43:LEU:C	12	1.1
(1,333)	1:D:39:LEU:N	1:D:39:LEU:CA	1:D:39:LEU:C	1:D:40:ILE:N	7	1.1
(1,294)	1:D:42:LEU:C	1:D:43:LEU:N	1:D:43:LEU:CA	1:D:43:LEU:C	9	1.1
(1,247)	1:C:39:LEU:N	1:C:39:LEU:CA	1:C:39:LEU:C	1:C:40:ILE:N	14	1.1
(1,208)	1:C:42:LEU:C	1:C:43:LEU:N	1:C:43:LEU:CA	1:C:43:LEU:C	12	1.1
(1,122)	1:B:42:LEU:C	1:B:43:LEU:N	1:B:43:LEU:CA	1:B:43:LEU:C	16	1.1