



Full wwPDB NMR Structure Validation Report ⓘ

Dec 2, 2025 – 03:31 am GMT

PDB ID : 7QCB / pdb_00007qcb
BMRB ID : 27417
Title : Williams-Beuren syndrome related methyltransferase WBSCR27 in complex with SAH
Authors : Polshakov, V.I.; Mariasina, S.S.; Chang, C.-F.; Efimov, S.V.
Deposited on : 2021-11-23

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

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/NMRValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

MolProbity : 4-5-2 with Phenix2.0
Mogul : 1.8.4, CSD as541be (2020)
buster-report : 1.1.7 (2018)
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
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) : 2.46

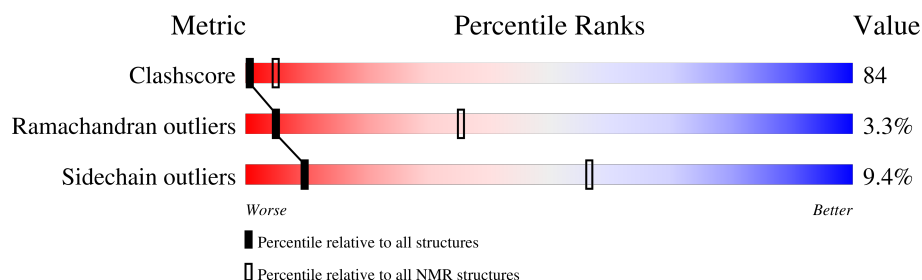
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 70%.

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	210492	14027
Ramachandran outliers	207382	12486
Sidechain outliers	206894	12463

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

Mol	Chain	Length	Quality of chain
1	A	240	

2 Ensemble composition and analysis

This entry contains 20 models. Model 4 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *closest to the average*.

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:10-A:206, A:228-A:240 (210)	0.85	4

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

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

The models can be grouped into 4 clusters and 6 single-model clusters were found.

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

3 Entry composition [i](#)

There are 2 unique types of molecules in this entry. The entry contains 3680 atoms, of which 1832 are hydrogens and 0 are deuteriums.

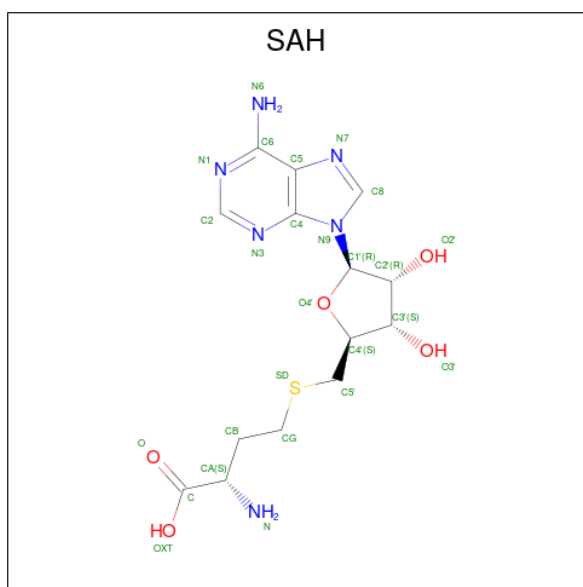
- Molecule 1 is a protein called Methyltransferase-like 27.

Mol	Chain	Residues	Atoms						Trace
1	A	240	Total	C	H	N	O	S	0
			3634	1145	1812	316	351	10	

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	GLY	-	expression tag	UNP Q8BGM4
A	2	ALA	-	expression tag	UNP Q8BGM4
A	3	MET	-	expression tag	UNP Q8BGM4
A	4	ALA	-	expression tag	UNP Q8BGM4

- Molecule 2 is S-ADENOSYL-L-HOMOCYSTEINE (CCD ID: SAH) (formula: $C_{14}H_{20}N_6O_5S$) (labeled as "Ligand of Interest" by depositor).



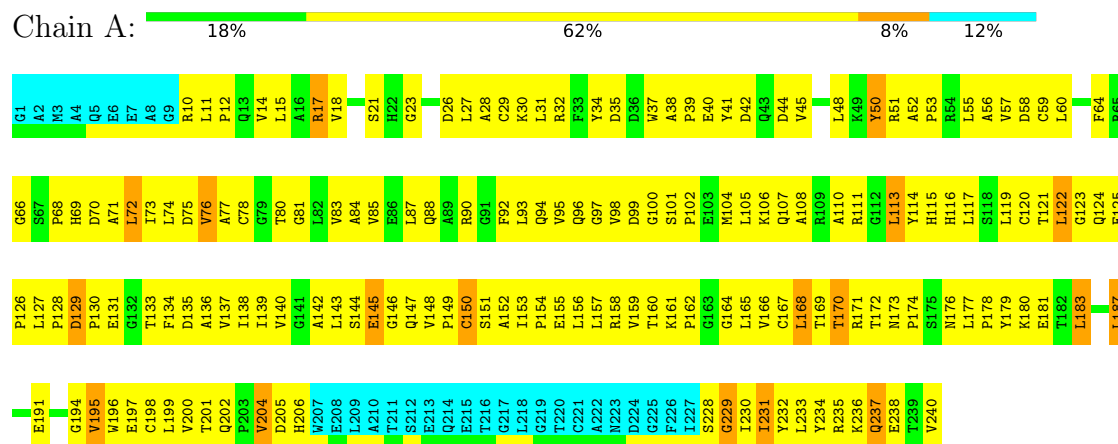
Mol	Chain	Residues	Atoms					
2	A	1	Total	C	H	N	O	S
			46	14	20	6	5	1

4 Residue-property plots [i](#)

4.1 Average score per residue in the NMR ensemble

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

- Molecule 1: Methyltransferase-like 27



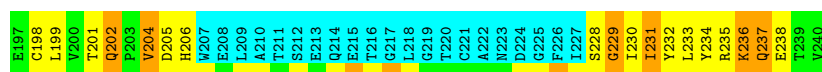
4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

- Molecule 1: Methyltransferase-like 27

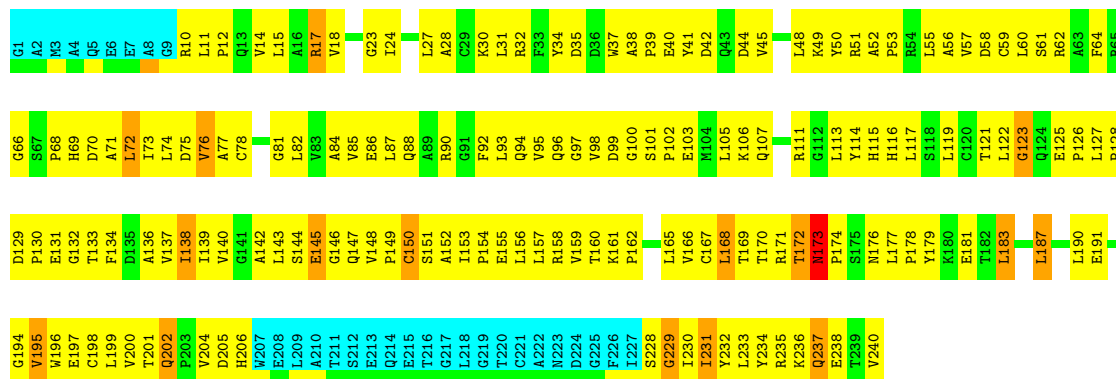




4.2.2 Score per residue for model 2

- Molecule 1: Methyltransferase-like 27

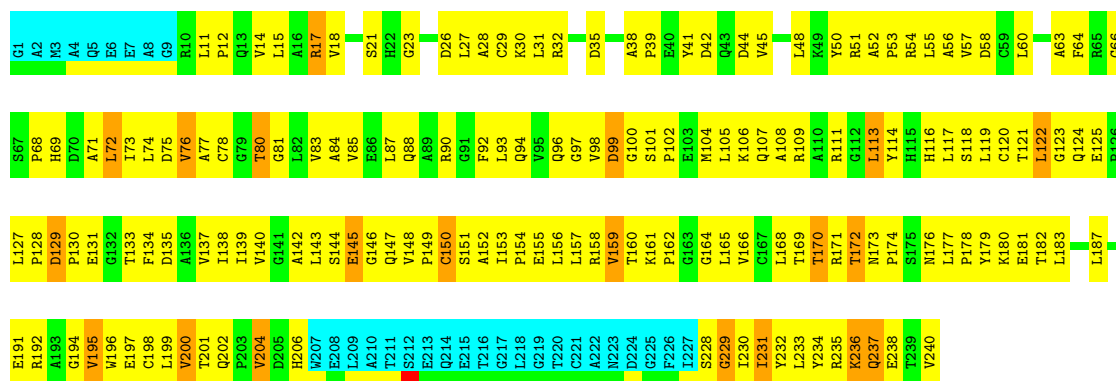
Chain A: 20% 61% 7% 12%



4.2.3 Score per residue for model 3

- Molecule 1: Methyltransferase-like 27

Chain A: 21% 58% 8% 12%

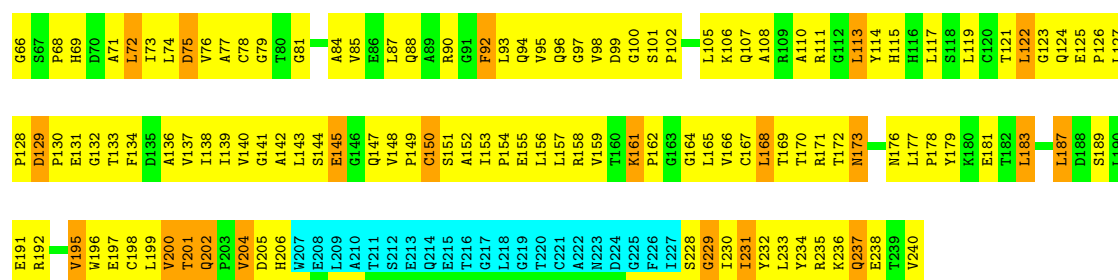


4.2.4 Score per residue for model 4 (medoid)

- Molecule 1: Methyltransferase-like 27

Chain A: 21% 57% 10% 12%

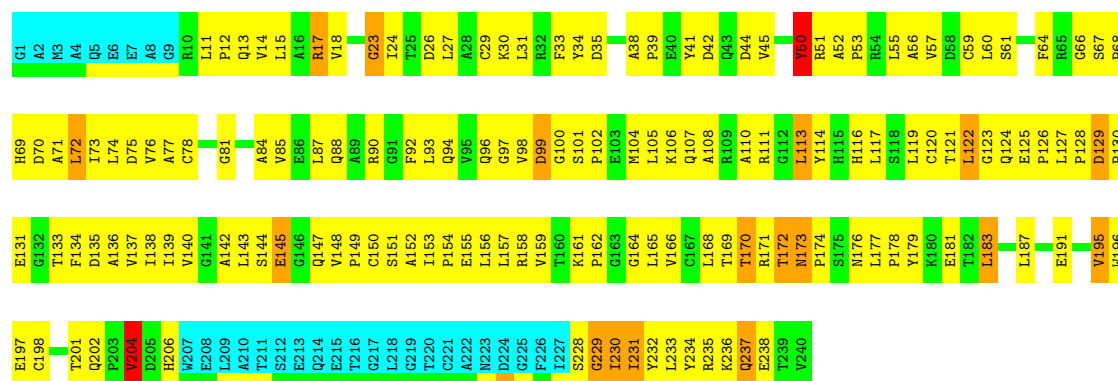




4.2.5 Score per residue for model 5

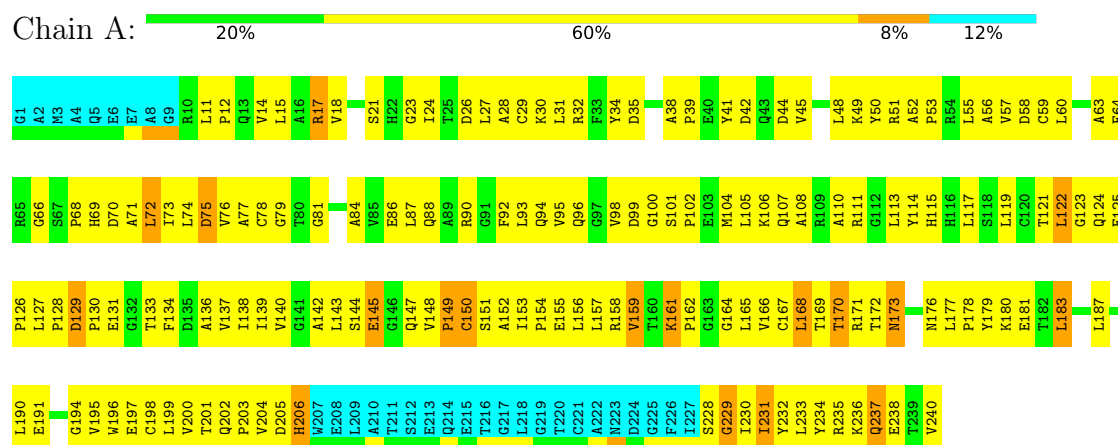
- Molecule 1: Methyltransferase-like 27

Chain A: 25% 55% 7% 12%



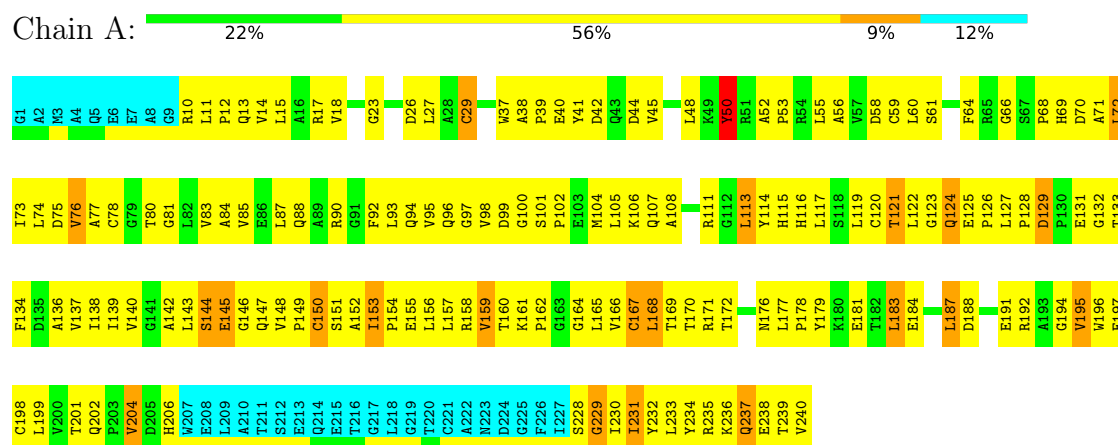
4.2.7 Score per residue for model 7

- Molecule 1: Methyltransferase-like 27



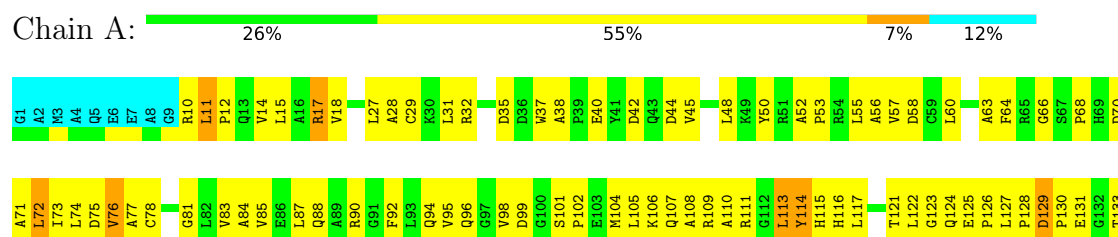
4.2.8 Score per residue for model 8

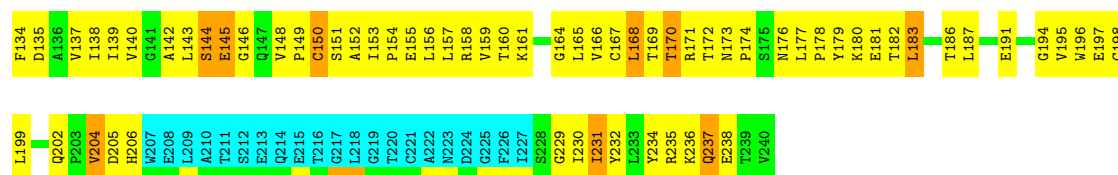
- Molecule 1: Methyltransferase-like 27



4.2.9 Score per residue for model 9

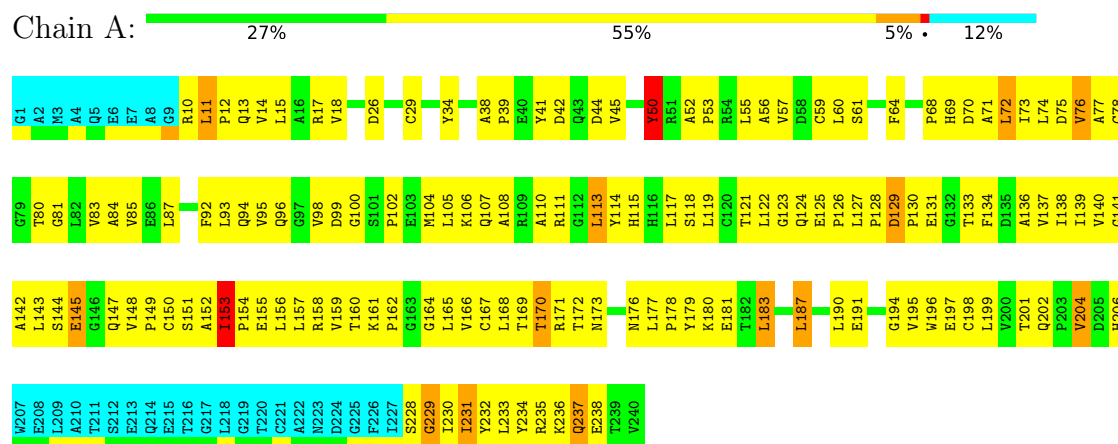
- Molecule 1: Methyltransferase-like 27





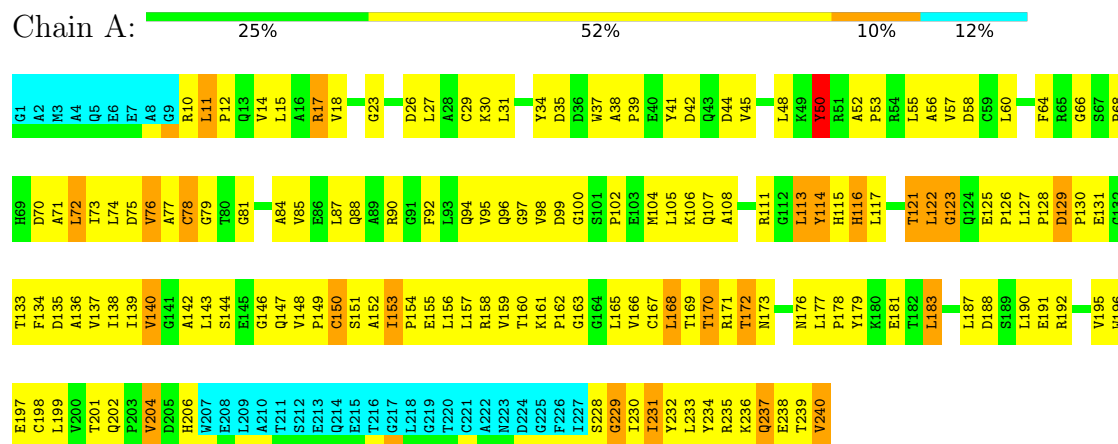
4.2.10 Score per residue for model 10

- Molecule 1: Methyltransferase-like 27



4.2.11 Score per residue for model 11

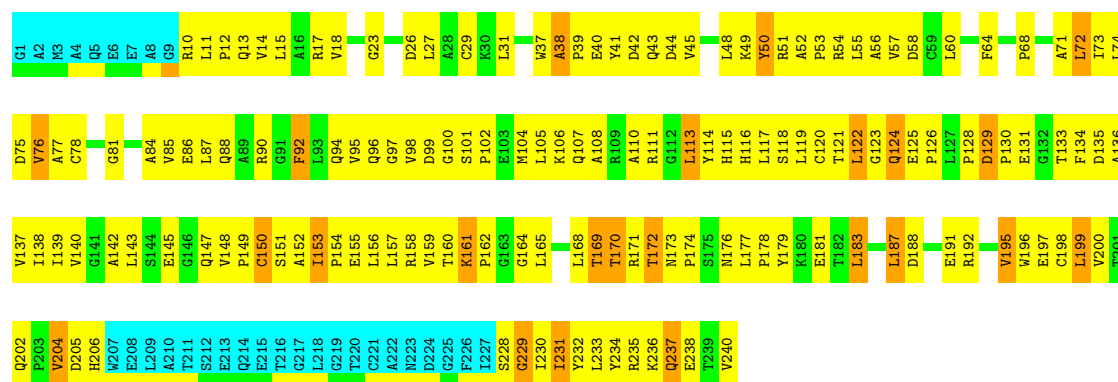
- Molecule 1: Methyltransferase-like 27



4.2.12 Score per residue for model 12

- Molecule 1: Methyltransferase-like 27

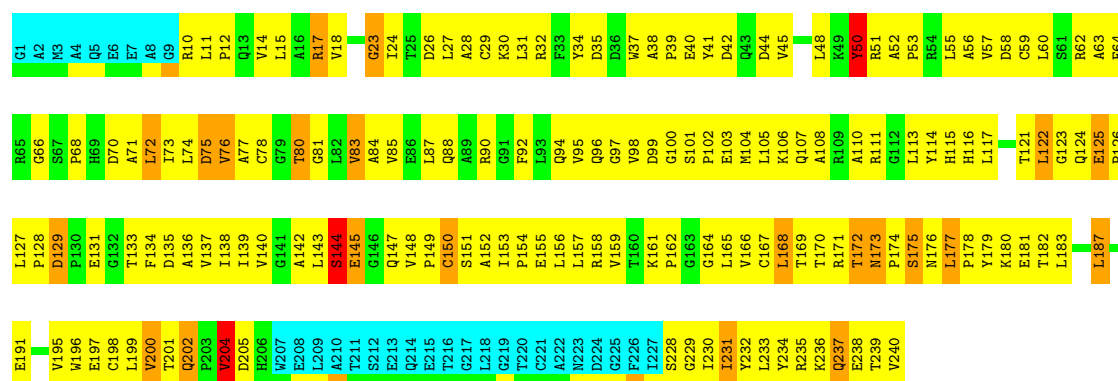




4.2.13 Score per residue for model 13

- Molecule 1: Methyltransferase-like 27

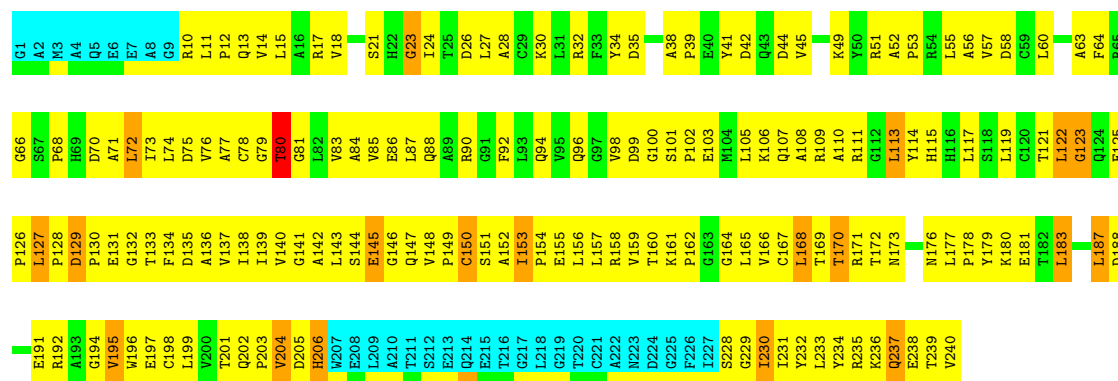
Chain A: 19% 58% 9% 12%



4.2.14 Score per residue for model 14

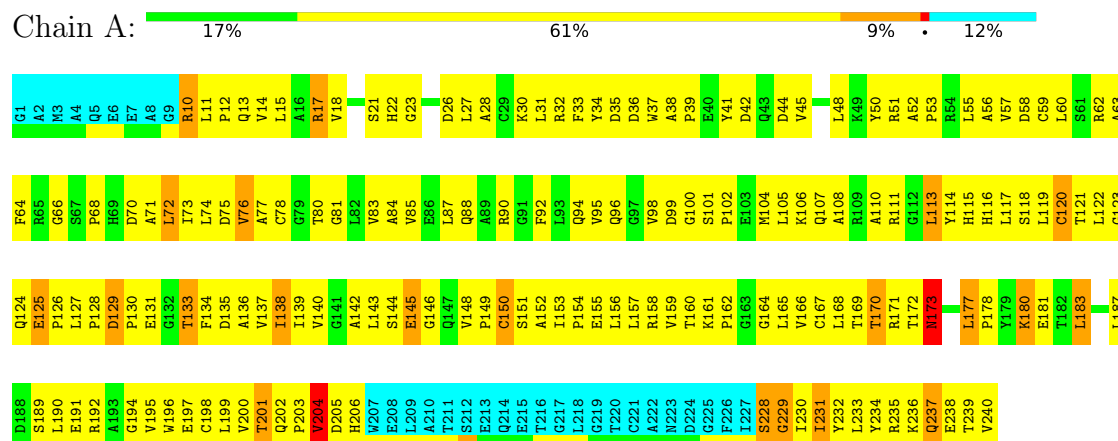
- Molecule 1: Methyltransferase-like 27

Chain A: 19% 60% 8% 12%



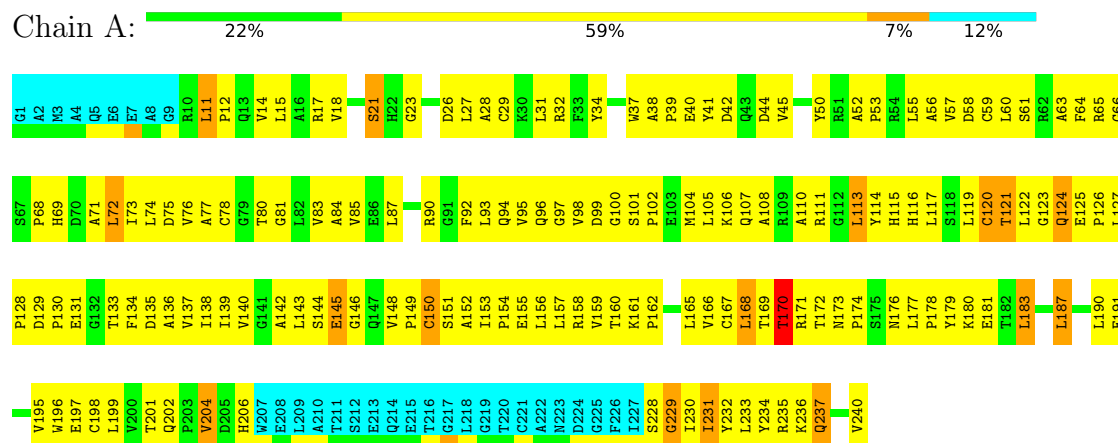
4.2.15 Score per residue for model 15

- Molecule 1: Methyltransferase-like 27



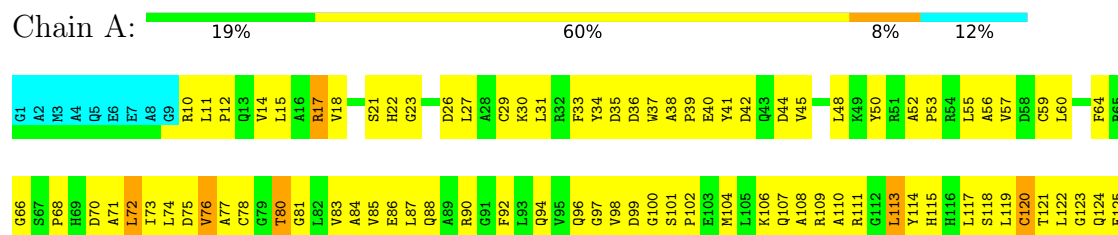
4.2.16 Score per residue for model 16

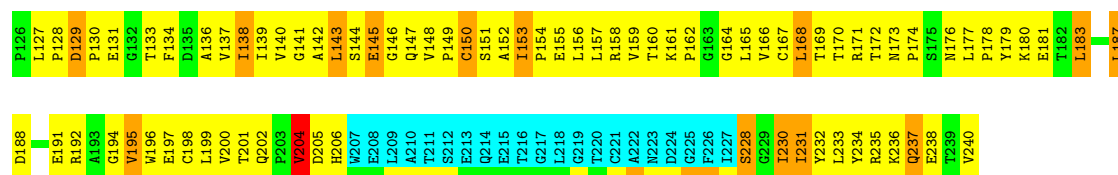
- Molecule 1: Methyltransferase-like 27



4.2.17 Score per residue for model 17

- Molecule 1: Methyltransferase-like 27





4.2.18 Score per residue for model 18

- Molecule 1: Methyltransferase-like 27

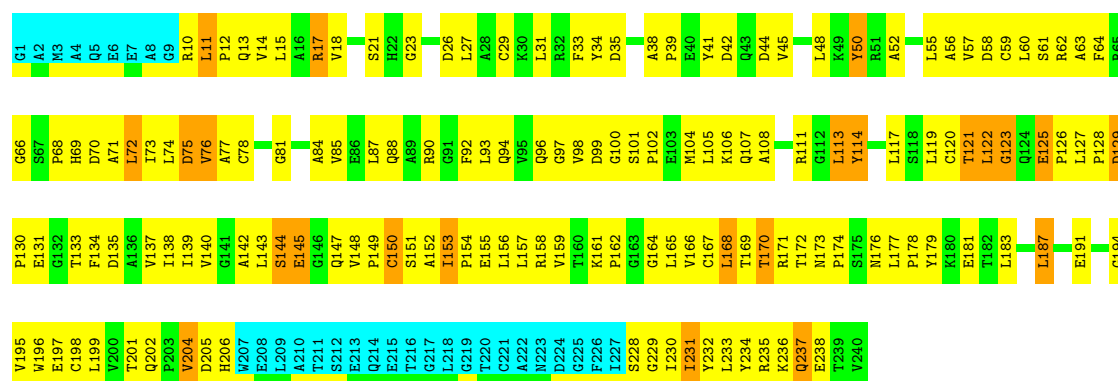
Chain A: 20% 58% 9% 12%



4.2.19 Score per residue for model 19

- Molecule 1: Methyltransferase-like 27

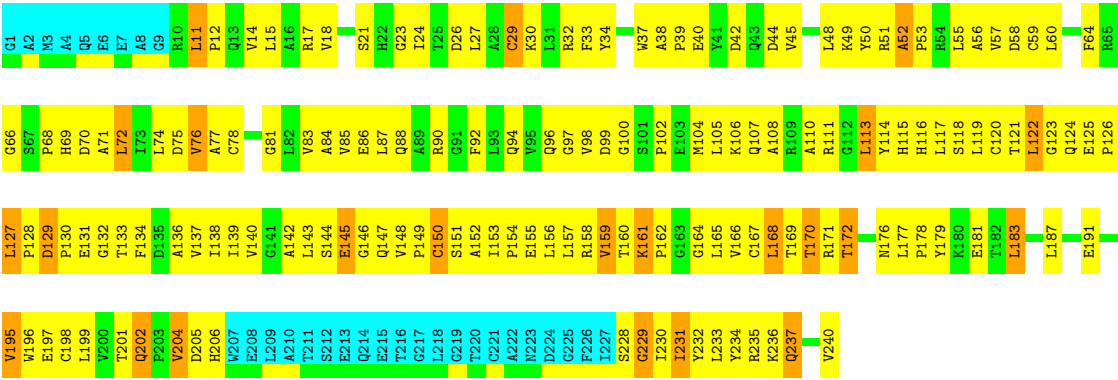
Chain A: 24% 54% 10% 12%



4.2.20 Score per residue for model 20

- Molecule 1: Methyltransferase-like 27

Chain A: 22% 55% 10% 12%



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: *structures with the least restraint violations*.

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

Software name	Classification	Version
ARIA	structure calculation	
CNS	refinement	2.21

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	2169
Number of shifts mapped to atoms	2169
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	70%

6 Model quality

6.1 Standard geometry

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#Z>5	RMSZ	#Z>5
1	A	0.41±0.01	0±0/1641 (0.0± 0.0%)	0.83±0.02	1±1/2237 (0.0± 0.0%)
All	All	0.41	0/32820 (0.0%)	0.83	14/44740 (0.0%)

There are no bond-length outliers.

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(°)	Ideal(°)	Models	
								Worst	Total
1	A	124	GLN	N-CA-C	-5.86	105.72	112.92	17	8
1	A	153	ILE	CB-CA-C	-5.71	108.28	113.70	8	5
1	A	140	VAL	N-CA-C	5.05	115.12	107.75	11	1

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	1608	1622	1617	274±15
2	A	26	20	19	16±4
All	All	32680	32840	32720	5484

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 84.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:121:THR:HA	2:A:300:SAH:N1	1.26	1.45	10	20
1:A:74:LEU:HB3	1:A:137:VAL:HG12	1.07	1.26	4	13
1:A:14:VAL:HB	1:A:121:THR:OG1	1.02	1.54	1	7
1:A:123:GLY:O	1:A:152:ALA:HB2	1.01	1.54	8	19
1:A:144:SER:O	1:A:145:GLU:HG2	1.00	1.56	2	5
1:A:11:LEU:HG	1:A:12:PRO:HD3	1.00	1.31	15	5
1:A:52:ALA:HB1	1:A:169:THR:HG21	0.98	1.30	5	10
1:A:15:LEU:HD12	1:A:122:LEU:HD11	0.97	1.36	1	1
1:A:137:VAL:HG13	1:A:166:VAL:HG13	0.97	1.34	2	5
1:A:204:VAL:HG21	1:A:230:ILE:HA	0.94	1.36	18	10
1:A:11:LEU:HD13	1:A:12:PRO:HD2	0.94	1.35	10	1
1:A:111:ARG:HG3	1:A:113:LEU:HD23	0.94	1.37	2	10
1:A:137:VAL:HG12	1:A:166:VAL:HG22	0.93	1.36	13	2
1:A:121:THR:CA	2:A:300:SAH:N1	0.92	2.31	10	17
1:A:143:LEU:HD21	1:A:168:LEU:HD13	0.92	1.40	1	14
1:A:63:ALA:HB1	1:A:199:LEU:HD13	0.92	1.40	6	6
1:A:107:GLN:O	1:A:111:ARG:HG2	0.91	1.66	8	1
1:A:144:SER:O	1:A:145:GLU:HG3	0.91	1.66	13	2
1:A:88:GLN:HB2	1:A:113:LEU:HD21	0.91	1.39	4	9
1:A:18:VAL:HG23	1:A:27:LEU:HD13	0.91	1.39	5	2
1:A:139:ILE:HD11	1:A:142:ALA:HB3	0.89	1.40	12	12
1:A:11:LEU:HD12	1:A:121:THR:HB	0.89	1.44	1	1
1:A:114:TYR:CD1	1:A:117:LEU:HD21	0.89	2.03	19	19
1:A:111:ARG:HG2	1:A:113:LEU:HD22	0.88	1.44	16	5
1:A:127:LEU:HD22	1:A:156:LEU:HD21	0.88	1.44	9	4
1:A:11:LEU:CD2	1:A:123:GLY:HA3	0.88	1.98	10	3
1:A:76:VAL:HB	1:A:139:ILE:HD12	0.88	1.43	5	13
1:A:78:CYS:HB3	1:A:140:VAL:O	0.88	1.68	8	19
1:A:142:ALA:HB1	1:A:148:VAL:HG21	0.87	1.44	7	11
1:A:122:LEU:HD23	1:A:126:PRO:O	0.87	1.70	10	10
1:A:156:LEU:O	1:A:159:VAL:HG22	0.87	1.70	8	15
1:A:137:VAL:CG2	1:A:166:VAL:HG13	0.86	1.99	11	13
1:A:55:LEU:HD13	1:A:202:GLN:HB3	0.86	1.45	10	9
1:A:171:ARG:HA	1:A:229:GLY:H	0.86	1.25	7	18
1:A:74:LEU:HD23	1:A:75:ASP:N	0.86	1.84	2	20
1:A:157:LEU:HD21	1:A:196:TRP:CE3	0.86	2.06	5	14
1:A:157:LEU:HG	1:A:236:LYS:HE3	0.86	1.45	2	1
1:A:143:LEU:HB2	1:A:170:THR:HG21	0.86	1.46	20	13
1:A:114:TYR:HD1	1:A:117:LEU:HD21	0.85	1.29	19	9

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:172:THR:HG22	1:A:230:ILE:CG2	0.85	2.01	16	5
1:A:34:TYR:HB3	2:A:300:SAH:SD	0.85	2.12	20	4
1:A:11:LEU:O	1:A:14:VAL:HG12	0.85	1.69	12	1
1:A:38:ALA:HA	2:A:300:SAH:HA	0.85	1.48	9	2
1:A:23:GLY:O	1:A:27:LEU:HG	0.85	1.71	16	10
1:A:98:VAL:HG11	1:A:128:PRO:HG2	0.84	1.48	1	10
1:A:77:ALA:CB	2:A:300:SAH:C4	0.84	2.55	1	16
1:A:129:ASP:OD2	1:A:159:VAL:HG11	0.84	1.72	16	9
1:A:78:CYS:HB2	1:A:142:ALA:HB2	0.84	1.47	18	4
1:A:231:ILE:HD12	1:A:233:LEU:CD1	0.84	2.02	4	5
1:A:52:ALA:HB1	1:A:169:THR:CG2	0.84	2.02	18	10
1:A:137:VAL:HG23	1:A:166:VAL:HG13	0.84	1.48	17	9
1:A:142:ALA:HB1	1:A:148:VAL:CG2	0.84	2.02	20	17
1:A:11:LEU:N	1:A:11:LEU:HD12	0.83	1.88	19	1
1:A:14:VAL:O	1:A:17:ARG:HG3	0.83	1.73	4	17
1:A:80:THR:O	1:A:83:VAL:HG12	0.83	1.72	16	3
1:A:130:PRO:O	1:A:159:VAL:HG22	0.83	1.72	12	5
1:A:11:LEU:HD13	1:A:12:PRO:CD	0.83	2.03	10	3
1:A:143:LEU:HD12	1:A:170:THR:CG2	0.83	2.04	15	3
1:A:74:LEU:HB3	1:A:137:VAL:HG22	0.83	1.51	12	2
1:A:202:GLN:HB2	1:A:231:ILE:HG23	0.82	1.51	20	6
1:A:137:VAL:CG1	1:A:166:VAL:HG13	0.82	2.03	15	5
1:A:87:LEU:HD21	1:A:92:PHE:CD2	0.82	2.09	8	8
1:A:80:THR:O	1:A:83:VAL:HG22	0.82	1.73	10	5
1:A:108:ALA:HB1	1:A:114:TYR:CD2	0.82	2.09	10	19
1:A:11:LEU:HG	1:A:147:GLN:O	0.82	1.73	10	1
1:A:172:THR:HG22	1:A:230:ILE:HB	0.82	1.51	15	3
1:A:111:ARG:CG	1:A:113:LEU:HD22	0.81	2.05	10	5
1:A:10:ARG:HB3	1:A:146:GLY:O	0.81	1.73	1	2
1:A:127:LEU:HG	1:A:156:LEU:HG	0.81	1.51	1	3
1:A:123:GLY:HA3	1:A:149:PRO:HD2	0.81	1.53	17	10
1:A:11:LEU:HD21	1:A:149:PRO:CD	0.81	2.06	10	3
1:A:14:VAL:HG11	1:A:121:THR:HG21	0.81	1.50	7	9
1:A:122:LEU:HD22	1:A:126:PRO:O	0.81	1.76	20	2
1:A:176:ASN:HB3	1:A:179:TYR:HB2	0.81	1.51	9	12
1:A:139:ILE:HD11	1:A:142:ALA:CB	0.81	2.05	12	12
1:A:168:LEU:HD11	1:A:232:TYR:CZ	0.81	2.11	10	11
1:A:169:THR:O	1:A:170:THR:OG1	0.81	1.99	9	12
1:A:167:CYS:SG	1:A:231:ILE:HD11	0.81	2.15	13	8
1:A:11:LEU:HD22	1:A:11:LEU:O	0.81	1.74	9	2
1:A:11:LEU:HD23	1:A:147:GLN:O	0.81	1.75	11	11

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:52:ALA:HB3	1:A:53:PRO:HD3	0.81	1.52	20	18
1:A:127:LEU:HD12	1:A:155:GLU:HB2	0.81	1.53	20	3
1:A:74:LEU:HD11	1:A:129:ASP:OD1	0.81	1.76	14	9
1:A:65:ARG:HD2	1:A:66:GLY:N	0.80	1.91	4	1
1:A:74:LEU:CB	1:A:137:VAL:HG12	0.80	2.06	20	11
1:A:170:THR:HG22	1:A:171:ARG:H	0.80	1.34	5	10
1:A:204:VAL:HG23	1:A:206:HIS:CD2	0.80	2.10	4	2
1:A:204:VAL:HG21	1:A:229:GLY:O	0.80	1.77	11	9
1:A:57:VAL:HG23	1:A:87:LEU:HD23	0.80	1.51	3	3
1:A:126:PRO:HB3	1:A:155:GLU:HG3	0.80	1.51	19	2
1:A:191:GLU:HA	1:A:196:TRP:O	0.80	1.76	6	20
1:A:69:HIS:CD2	1:A:93:LEU:HD22	0.80	2.11	2	4
1:A:14:VAL:HG11	1:A:121:THR:HB	0.80	1.53	19	2
1:A:131:GLU:HA	1:A:159:VAL:HA	0.80	1.53	5	19
1:A:187:LEU:HD23	1:A:234:TYR:OH	0.80	1.77	13	7
1:A:63:ALA:CB	1:A:199:LEU:HD13	0.79	2.07	6	3
1:A:124:GLN:HG3	1:A:149:PRO:HG2	0.79	1.53	16	2
1:A:10:ARG:HB2	1:A:146:GLY:O	0.79	1.76	15	3
1:A:84:ALA:HA	1:A:87:LEU:HD12	0.79	1.52	3	7
1:A:11:LEU:CB	2:A:300:SAH:HN61	0.79	1.91	10	1
1:A:42:ASP:O	1:A:45:VAL:HG22	0.79	1.78	1	20
1:A:14:VAL:O	1:A:18:VAL:HG23	0.79	1.76	16	11
1:A:124:GLN:HG3	1:A:149:PRO:CG	0.79	2.08	16	1
1:A:74:LEU:HD11	1:A:129:ASP:OD2	0.79	1.77	11	6
1:A:11:LEU:HD22	1:A:12:PRO:HD3	0.78	1.54	10	1
1:A:24:ILE:HA	1:A:27:LEU:HD13	0.78	1.54	2	2
1:A:140:VAL:HG13	1:A:169:THR:CG2	0.78	2.08	13	5
1:A:74:LEU:HD22	1:A:156:LEU:HD11	0.78	1.55	17	1
1:A:11:LEU:HD12	1:A:11:LEU:H	0.78	1.39	19	2
1:A:17:ARG:NH1	1:A:27:LEU:HD22	0.78	1.94	1	2
1:A:121:THR:O	1:A:122:LEU:HD12	0.78	1.77	1	2
1:A:74:LEU:HD12	1:A:134:PHE:HD2	0.78	1.38	16	20
1:A:143:LEU:HD12	1:A:170:THR:HB	0.77	1.56	8	13
1:A:17:ARG:HH11	1:A:27:LEU:HD22	0.77	1.39	1	1
1:A:198:CYS:HB2	1:A:234:TYR:CE1	0.77	2.14	15	14
1:A:11:LEU:HG	2:A:300:SAH:HN61	0.77	1.39	11	1
1:A:143:LEU:HD21	1:A:168:LEU:CD1	0.77	2.10	1	8
1:A:74:LEU:HD12	1:A:134:PHE:CD2	0.77	2.15	15	20
1:A:15:LEU:HB2	1:A:121:THR:O	0.77	1.80	20	9
1:A:98:VAL:CG2	1:A:127:LEU:HD23	0.77	2.09	2	2
1:A:111:ARG:CG	1:A:113:LEU:HD23	0.76	2.10	15	9

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:50:TYR:HA	1:A:204:VAL:CG1	0.76	2.11	6	2
1:A:48:LEU:HD13	1:A:50:TYR:OH	0.76	1.79	1	1
1:A:107:GLN:O	1:A:111:ARG:HB2	0.76	1.80	1	19
1:A:72:LEU:O	1:A:134:PHE:HB3	0.76	1.80	10	20
1:A:204:VAL:HG23	1:A:206:HIS:ND1	0.76	1.95	11	6
1:A:87:LEU:HD12	1:A:113:LEU:HD12	0.76	1.54	2	4
1:A:14:VAL:HG11	1:A:121:THR:CB	0.76	2.11	19	3
1:A:55:LEU:HB3	1:A:202:GLN:HG2	0.76	1.57	9	4
1:A:166:VAL:HG21	1:A:236:LYS:HE2	0.75	1.57	2	1
1:A:125:GLU:HG3	1:A:126:PRO:HD2	0.75	1.57	15	3
1:A:204:VAL:HG21	1:A:229:GLY:C	0.75	2.07	14	3
1:A:129:ASP:OD1	1:A:159:VAL:HG21	0.75	1.79	20	6
1:A:171:ARG:HG3	1:A:174:PRO:HG3	0.75	1.57	6	2
1:A:76:VAL:CB	1:A:139:ILE:HD12	0.75	2.11	5	15
1:A:168:LEU:HD11	1:A:232:TYR:OH	0.75	1.81	10	11
1:A:157:LEU:HG	1:A:166:VAL:HG21	0.75	1.57	8	9
1:A:76:VAL:CG2	1:A:156:LEU:HD21	0.75	2.12	11	2
1:A:129:ASP:OD2	1:A:159:VAL:HG21	0.75	1.82	15	10
1:A:129:ASP:CG	1:A:159:VAL:HG21	0.75	2.05	2	2
1:A:11:LEU:HG	1:A:12:PRO:CD	0.75	2.11	6	4
1:A:88:GLN:HG3	1:A:113:LEU:HD11	0.75	1.59	6	2
1:A:78:CYS:CB	1:A:142:ALA:HB2	0.75	2.11	18	3
1:A:10:ARG:HD3	1:A:34:TYR:OH	0.75	1.82	13	1
1:A:206:HIS:CE1	1:A:230:ILE:HD12	0.75	2.17	14	2
1:A:52:ALA:O	1:A:56:ALA:CB	0.74	2.35	1	13
1:A:98:VAL:HG11	1:A:128:PRO:CG	0.74	2.12	12	19
1:A:17:ARG:CZ	1:A:27:LEU:HD22	0.74	2.12	16	4
1:A:88:GLN:CA	1:A:113:LEU:HD11	0.74	2.13	2	5
1:A:48:LEU:O	1:A:205:ASP:HB3	0.74	1.82	9	1
1:A:55:LEU:HD23	1:A:202:GLN:HB3	0.74	1.59	1	2
1:A:137:VAL:HG22	1:A:166:VAL:HG22	0.74	1.57	17	7
1:A:11:LEU:HD12	1:A:12:PRO:N	0.74	1.98	8	4
1:A:11:LEU:HD22	1:A:11:LEU:C	0.74	2.07	9	2
1:A:29:CYS:O	1:A:32:ARG:HG2	0.74	1.83	20	1
1:A:68:PRO:HB2	1:A:92:PHE:HA	0.74	1.60	12	20
1:A:129:ASP:OD1	1:A:159:VAL:HG11	0.74	1.83	11	4
1:A:14:VAL:HG21	1:A:121:THR:CG2	0.73	2.13	15	1
1:A:74:LEU:HA	1:A:96:GLN:O	0.73	1.83	16	20
1:A:204:VAL:CG2	1:A:230:ILE:HA	0.73	2.13	7	8
1:A:139:ILE:CD1	1:A:142:ALA:HB3	0.73	2.12	12	12
1:A:15:LEU:HB2	1:A:122:LEU:CD1	0.73	2.13	19	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:206:HIS:CD2	1:A:230:ILE:HD11	0.73	2.18	17	2
1:A:77:ALA:CB	2:A:300:SAH:N3	0.73	2.51	17	13
1:A:204:VAL:HG23	1:A:230:ILE:HA	0.73	1.60	15	6
1:A:204:VAL:HG11	1:A:229:GLY:O	0.73	1.83	19	3
1:A:17:ARG:NE	1:A:27:LEU:HD22	0.73	1.99	4	2
1:A:98:VAL:HG11	1:A:128:PRO:HG3	0.73	1.60	14	8
1:A:52:ALA:O	1:A:56:ALA:N	0.73	2.20	6	20
1:A:157:LEU:HA	1:A:236:LYS:HE3	0.73	1.61	13	2
1:A:75:ASP:HB2	1:A:114:TYR:CE1	0.72	2.19	9	14
1:A:75:ASP:HB3	1:A:114:TYR:HE1	0.72	1.44	18	4
1:A:143:LEU:HD22	1:A:153:ILE:HD11	0.72	1.59	17	2
1:A:52:ALA:CB	1:A:169:THR:HG21	0.72	2.14	6	5
1:A:34:TYR:HB3	2:A:300:SAH:HG2	0.72	1.58	4	3
1:A:104:MET:HG3	2:A:300:SAH:O3'	0.72	1.84	17	8
1:A:11:LEU:CG	1:A:12:PRO:HD3	0.72	2.11	8	5
1:A:48:LEU:HD13	1:A:50:TYR:CZ	0.72	2.20	1	1
1:A:164:GLY:C	1:A:165:LEU:HD22	0.72	2.10	5	14
1:A:153:ILE:HA	1:A:156:LEU:HD13	0.72	1.62	5	6
1:A:144:SER:O	1:A:145:GLU:CG	0.71	2.36	2	7
1:A:154:PRO:HA	1:A:157:LEU:HD13	0.71	1.60	11	8
1:A:173:ASN:HB3	1:A:177:LEU:HD13	0.71	1.61	3	1
1:A:31:LEU:HD13	1:A:102:PRO:HD3	0.71	1.62	11	8
1:A:102:PRO:O	1:A:106:LYS:HG3	0.71	1.85	1	19
1:A:88:GLN:HB2	1:A:113:LEU:HD11	0.71	1.62	13	12
1:A:169:THR:HB	1:A:231:ILE:HG12	0.71	1.62	19	1
1:A:197:GLU:HG3	1:A:240:VAL:HG11	0.71	1.61	20	1
1:A:11:LEU:HD13	1:A:12:PRO:N	0.71	2.00	9	1
1:A:75:ASP:OD2	1:A:138:ILE:HG22	0.71	1.86	9	3
1:A:78:CYS:SG	1:A:142:ALA:HB2	0.71	2.24	12	13
1:A:17:ARG:NH1	1:A:18:VAL:HG12	0.71	2.00	1	1
1:A:202:GLN:HB2	1:A:231:ILE:CG2	0.71	2.15	10	15
1:A:194:GLY:HA2	1:A:238:GLU:O	0.71	1.84	3	8
1:A:168:LEU:C	1:A:168:LEU:HD12	0.71	2.10	7	1
1:A:11:LEU:HD11	1:A:123:GLY:N	0.71	2.00	9	1
2:A:300:SAH:CB	2:A:300:SAH:H4'	0.71	2.16	9	2
1:A:147:GLN:OE1	2:A:300:SAH:H8	0.71	1.86	10	2
1:A:11:LEU:HD21	1:A:147:GLN:O	0.71	1.86	18	1
1:A:88:GLN:NE2	1:A:113:LEU:HD12	0.70	2.00	3	2
1:A:191:GLU:HB3	1:A:240:VAL:HG21	0.70	1.63	4	1
1:A:11:LEU:CD2	1:A:149:PRO:HD3	0.70	2.15	6	4
1:A:85:VAL:HG22	1:A:111:ARG:NE	0.70	2.01	2	8

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:202:GLN:O	1:A:231:ILE:HG22	0.70	1.86	15	4
1:A:114:TYR:CD1	1:A:117:LEU:HD11	0.70	2.22	4	3
1:A:38:ALA:HB3	1:A:39:PRO:HD3	0.70	1.62	17	9
1:A:76:VAL:HG21	1:A:139:ILE:HD12	0.70	1.63	11	2
1:A:138:ILE:HG13	1:A:167:CYS:HB3	0.70	1.61	16	14
1:A:198:CYS:HB3	1:A:234:TYR:CE1	0.70	2.22	4	5
1:A:11:LEU:HD21	1:A:149:PRO:HD3	0.70	1.61	10	3
1:A:197:GLU:HB3	1:A:235:ARG:HB2	0.70	1.63	2	1
1:A:18:VAL:HG23	1:A:27:LEU:CD1	0.70	2.17	7	2
1:A:63:ALA:HB1	1:A:199:LEU:HD23	0.70	1.61	15	1
1:A:168:LEU:HD21	1:A:232:TYR:CE2	0.70	2.21	20	6
1:A:178:PRO:O	1:A:181:GLU:HG2	0.70	1.87	4	18
1:A:131:GLU:HG2	1:A:158:ARG:HG3	0.70	1.62	14	1
1:A:172:THR:HG21	1:A:230:ILE:HD12	0.70	1.64	17	3
1:A:55:LEU:HD13	1:A:202:GLN:HG2	0.70	1.62	6	2
1:A:11:LEU:HD13	1:A:122:LEU:HA	0.70	1.64	17	3
1:A:123:GLY:CA	1:A:149:PRO:HD2	0.69	2.17	13	10
1:A:102:PRO:O	1:A:106:LYS:HG2	0.69	1.85	17	1
2:A:300:SAH:H4'	2:A:300:SAH:HB2	0.69	1.64	9	1
1:A:204:VAL:HG21	1:A:230:ILE:CA	0.69	2.16	18	9
1:A:231:ILE:HD13	1:A:232:TYR:N	0.69	2.02	9	10
1:A:11:LEU:CD1	1:A:11:LEU:N	0.69	2.55	10	1
1:A:155:GLU:O	1:A:158:ARG:HG2	0.69	1.87	11	1
1:A:137:VAL:CG1	1:A:166:VAL:HG22	0.69	2.14	13	1
1:A:162:PRO:HB3	1:A:237:GLN:HB3	0.69	1.65	19	15
1:A:232:TYR:C	1:A:233:LEU:HD12	0.69	2.13	2	10
1:A:75:ASP:OD1	1:A:138:ILE:HG23	0.69	1.88	12	5
1:A:161:LYS:HG3	1:A:162:PRO:HD2	0.69	1.64	10	3
1:A:127:LEU:HD12	1:A:156:LEU:HG	0.69	1.63	19	1
1:A:14:VAL:CG1	1:A:121:THR:HG21	0.69	2.17	4	3
1:A:73:ILE:HG13	1:A:92:PHE:CD2	0.69	2.23	2	12
1:A:104:MET:CG	2:A:300:SAH:O3'	0.68	2.41	17	3
1:A:127:LEU:HD22	1:A:156:LEU:CD2	0.68	2.18	3	3
1:A:232:TYR:HB3	1:A:234:TYR:CE2	0.68	2.22	6	2
1:A:177:LEU:HB2	1:A:178:PRO:HD3	0.68	1.66	9	11
1:A:122:LEU:HD23	1:A:125:GLU:HB2	0.68	1.64	1	2
1:A:133:THR:HG22	1:A:134:PHE:CD1	0.68	2.24	9	19
1:A:231:ILE:HD12	1:A:233:LEU:HD11	0.68	1.65	3	5
1:A:83:VAL:O	1:A:87:LEU:HG	0.68	1.88	20	7
1:A:84:ALA:HB3	1:A:113:LEU:HD23	0.68	1.66	3	2
1:A:176:ASN:O	1:A:179:TYR:HB3	0.68	1.88	10	6

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:194:GLY:O	1:A:237:GLN:HA	0.68	1.89	3	7
1:A:15:LEU:HA	1:A:18:VAL:HG12	0.68	1.66	10	5
1:A:11:LEU:HD11	1:A:147:GLN:O	0.68	1.87	18	1
1:A:74:LEU:HD11	1:A:129:ASP:CG	0.68	2.14	14	11
1:A:150:CYS:O	1:A:153:ILE:HG13	0.68	1.89	11	3
1:A:133:THR:HG22	1:A:134:PHE:CE1	0.67	2.24	5	19
1:A:155:GLU:O	1:A:159:VAL:HG13	0.67	1.89	6	7
1:A:15:LEU:HB2	1:A:122:LEU:HD13	0.67	1.66	12	3
1:A:12:PRO:HA	1:A:122:LEU:HA	0.67	1.66	20	4
1:A:11:LEU:HD23	1:A:147:GLN:HA	0.67	1.66	7	7
1:A:76:VAL:CG2	1:A:139:ILE:HD12	0.67	2.19	11	5
1:A:108:ALA:HB1	1:A:114:TYR:CE2	0.67	2.25	20	17
1:A:176:ASN:HB3	1:A:179:TYR:CG	0.67	2.24	12	8
1:A:11:LEU:HB3	2:A:300:SAH:HN61	0.67	1.48	10	1
1:A:127:LEU:HD11	1:A:156:LEU:HD12	0.67	1.66	11	1
1:A:98:VAL:HG12	1:A:118:SER:HB2	0.67	1.64	1	5
1:A:172:THR:CG2	1:A:230:ILE:HB	0.67	2.20	18	5
1:A:199:LEU:HG	1:A:200:VAL:HG12	0.67	1.67	4	1
1:A:11:LEU:H	1:A:11:LEU:CD1	0.67	2.01	10	2
1:A:60:LEU:HD22	1:A:92:PHE:CZ	0.67	2.24	15	5
1:A:151:SER:O	1:A:154:PRO:HD2	0.67	1.89	12	12
1:A:170:THR:HG22	1:A:171:ARG:N	0.67	2.05	1	14
1:A:14:VAL:HG13	1:A:17:ARG:CZ	0.67	2.19	13	4
1:A:63:ALA:HB1	1:A:199:LEU:CD2	0.67	2.20	4	4
2:A:300:SAH:HG2	2:A:300:SAH:O3'	0.67	1.89	10	1
1:A:14:VAL:CB	1:A:121:THR:OG1	0.67	2.40	1	3
1:A:81:GLY:HA3	1:A:107:GLN:HB3	0.67	1.65	1	10
1:A:206:HIS:HB3	1:A:228:SER:O	0.67	1.90	14	12
1:A:230:ILE:HG23	1:A:232:TYR:CE1	0.67	2.24	12	4
1:A:196:TRP:HB2	1:A:235:ARG:O	0.66	1.90	15	18
1:A:131:GLU:HG2	1:A:158:ARG:HG2	0.66	1.66	19	1
1:A:76:VAL:HG12	1:A:77:ALA:H	0.66	1.50	5	19
1:A:56:ALA:HB2	1:A:231:ILE:HG13	0.66	1.67	12	2
1:A:173:ASN:N	1:A:174:PRO:HD2	0.66	2.05	17	2
1:A:141:GLY:O	1:A:147:GLN:NE2	0.66	2.28	17	2
1:A:56:ALA:HB2	1:A:231:ILE:CG1	0.66	2.20	12	1
1:A:127:LEU:HD13	1:A:156:LEU:HG	0.66	1.68	20	3
1:A:101:SER:OG	2:A:300:SAH:H3'	0.66	1.90	17	2
1:A:102:PRO:O	1:A:106:LYS:N	0.66	2.27	5	20
1:A:88:GLN:CB	1:A:113:LEU:HD11	0.66	2.20	2	5
1:A:39:PRO:HD3	1:A:103:GLU:OE1	0.66	1.90	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:191:GLU:HG2	1:A:197:GLU:HA	0.66	1.67	9	8
1:A:195:VAL:O	1:A:237:GLN:N	0.66	2.29	11	19
1:A:170:THR:CG2	1:A:171:ARG:H	0.66	2.04	1	14
1:A:45:VAL:HA	1:A:48:LEU:HD12	0.66	1.67	8	2
1:A:161:LYS:O	1:A:236:LYS:HB3	0.66	1.91	12	4
1:A:75:ASP:O	1:A:97:GLY:HA3	0.65	1.91	20	15
1:A:111:ARG:HG3	1:A:113:LEU:HD13	0.65	1.66	1	5
1:A:206:HIS:HB3	1:A:229:GLY:O	0.65	1.90	1	8
1:A:44:ASP:O	1:A:48:LEU:HD13	0.65	1.91	20	13
1:A:55:LEU:HD22	1:A:202:GLN:HB3	0.65	1.68	14	1
1:A:199:LEU:HD21	1:A:235:ARG:NE	0.65	2.06	8	4
1:A:172:THR:HB	1:A:230:ILE:HG21	0.65	1.68	12	2
1:A:76:VAL:HG21	1:A:156:LEU:HD21	0.65	1.67	5	6
1:A:76:VAL:HG13	1:A:127:LEU:HD21	0.65	1.69	14	2
1:A:107:GLN:O	1:A:111:ARG:CB	0.65	2.45	5	16
1:A:176:ASN:HB3	1:A:179:TYR:CB	0.65	2.22	11	15
1:A:15:LEU:HD12	1:A:18:VAL:CG1	0.65	2.21	10	1
1:A:104:MET:HG3	2:A:300:SAH:O2'	0.65	1.91	12	1
1:A:73:ILE:CD1	1:A:136:ALA:HB3	0.65	2.22	17	11
1:A:121:THR:CB	2:A:300:SAH:N1	0.65	2.59	8	6
1:A:77:ALA:O	1:A:104:MET:HG2	0.65	1.91	15	3
1:A:14:VAL:HG21	1:A:121:THR:HG21	0.65	1.66	15	1
1:A:202:GLN:HB2	1:A:231:ILE:HG22	0.65	1.69	19	1
1:A:11:LEU:H	1:A:11:LEU:HD22	0.65	1.51	18	1
1:A:55:LEU:HA	1:A:58:ASP:OD2	0.65	1.92	18	1
1:A:88:GLN:HG3	1:A:113:LEU:CD1	0.65	2.22	6	2
1:A:157:LEU:CD1	1:A:166:VAL:HG11	0.65	2.22	6	1
1:A:56:ALA:CB	1:A:231:ILE:HD11	0.65	2.21	12	1
1:A:88:GLN:HB2	1:A:113:LEU:CD2	0.65	2.19	4	5
1:A:151:SER:O	1:A:154:PRO:HG2	0.65	1.91	8	8
1:A:87:LEU:CD1	1:A:92:PHE:HB2	0.64	2.21	6	7
1:A:12:PRO:HG3	1:A:123:GLY:HA3	0.64	1.68	4	2
1:A:11:LEU:HD12	1:A:11:LEU:C	0.64	2.17	12	3
1:A:191:GLU:HB3	1:A:240:VAL:HG13	0.64	1.67	20	1
1:A:60:LEU:HD22	1:A:92:PHE:CE2	0.64	2.27	16	3
1:A:235:ARG:HD2	1:A:238:GLU:HG3	0.64	1.69	15	1
1:A:57:VAL:HG22	1:A:90:ARG:HG2	0.64	1.68	11	7
1:A:15:LEU:HD12	1:A:122:LEU:CD1	0.64	2.19	1	1
1:A:76:VAL:HG23	1:A:139:ILE:HB	0.64	1.67	11	13
1:A:123:GLY:C	1:A:149:PRO:HG2	0.64	2.17	18	7
1:A:52:ALA:CB	1:A:231:ILE:HB	0.64	2.21	16	10

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:23:GLY:O	1:A:27:LEU:HB2	0.64	1.92	6	3
1:A:84:ALA:HB1	1:A:113:LEU:CB	0.64	2.23	17	10
1:A:100:GLY:N	2:A:300:SAH:N3	0.64	2.46	5	13
1:A:14:VAL:HG21	1:A:121:THR:CB	0.64	2.22	6	1
1:A:191:GLU:OE2	1:A:240:VAL:HG21	0.64	1.92	18	1
1:A:11:LEU:N	1:A:11:LEU:CD1	0.64	2.60	19	1
1:A:143:LEU:HB2	1:A:170:THR:CB	0.64	2.23	11	2
1:A:74:LEU:HD13	1:A:156:LEU:CD1	0.64	2.23	17	1
1:A:168:LEU:HD21	1:A:232:TYR:OH	0.64	1.93	7	3
1:A:123:GLY:O	1:A:152:ALA:CB	0.64	2.45	9	4
1:A:171:ARG:HG2	1:A:228:SER:HB2	0.64	1.68	20	9
1:A:77:ALA:HB1	2:A:300:SAH:O2'	0.64	1.93	18	2
1:A:69:HIS:CG	1:A:93:LEU:HD12	0.63	2.28	18	5
1:A:77:ALA:HA	1:A:99:ASP:HA	0.63	1.71	1	15
1:A:84:ALA:C	1:A:113:LEU:HD23	0.63	2.19	5	3
1:A:140:VAL:HG13	1:A:169:THR:HG23	0.63	1.69	13	2
1:A:201:THR:HG23	1:A:231:ILE:O	0.63	1.93	14	5
1:A:11:LEU:HD21	2:A:300:SAH:H5'1	0.63	1.70	3	1
1:A:12:PRO:HG3	1:A:123:GLY:CA	0.63	2.23	4	2
1:A:74:LEU:HB3	1:A:137:VAL:CG1	0.63	2.20	8	11
1:A:76:VAL:HG23	1:A:139:ILE:HG12	0.63	1.68	7	1
1:A:127:LEU:HD12	1:A:155:GLU:C	0.63	2.18	11	1
1:A:11:LEU:HD23	1:A:122:LEU:O	0.63	1.93	10	1
1:A:176:ASN:HB2	1:A:179:TYR:CG	0.63	2.29	18	1
1:A:71:ALA:HB1	1:A:135:ASP:HB2	0.63	1.69	6	10
1:A:28:ALA:O	1:A:32:ARG:HG3	0.63	1.94	13	6
1:A:87:LEU:HG	1:A:92:PHE:CD2	0.63	2.28	15	2
1:A:172:THR:HG22	1:A:230:ILE:HG22	0.63	1.69	10	4
1:A:41:TYR:HB2	2:A:300:SAH:HN2	0.63	1.53	11	1
1:A:11:LEU:HD21	1:A:149:PRO:CG	0.63	2.24	12	2
1:A:74:LEU:O	1:A:137:VAL:HA	0.63	1.93	3	18
1:A:99:ASP:HB2	1:A:105:LEU:CD2	0.63	2.24	7	18
1:A:96:GLN:HG2	1:A:116:HIS:HB3	0.63	1.70	6	7
1:A:15:LEU:HB2	1:A:122:LEU:HD11	0.63	1.70	19	2
1:A:121:THR:HB	2:A:300:SAH:N1	0.63	2.09	16	4
1:A:143:LEU:CD1	1:A:170:THR:HB	0.62	2.23	1	12
1:A:206:HIS:CB	1:A:228:SER:O	0.62	2.47	10	10
1:A:154:PRO:O	1:A:158:ARG:HG3	0.62	1.92	17	6
1:A:166:VAL:CG2	1:A:236:LYS:HE2	0.62	2.23	2	3
1:A:52:ALA:O	1:A:56:ALA:HB2	0.62	1.94	19	8
1:A:231:ILE:HD12	1:A:233:LEU:HD12	0.62	1.71	4	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:51:ARG:HB3	1:A:55:LEU:HD13	0.62	1.71	7	1
1:A:85:VAL:HG22	1:A:111:ARG:HD2	0.62	1.71	8	4
1:A:60:LEU:HD12	1:A:167:CYS:SG	0.62	2.33	14	1
1:A:72:LEU:HD12	1:A:134:PHE:CD1	0.62	2.29	19	20
1:A:127:LEU:HD23	1:A:155:GLU:HB2	0.62	1.70	4	3
1:A:191:GLU:HG3	1:A:197:GLU:HA	0.62	1.70	3	9
1:A:172:THR:HG22	1:A:173:ASN:ND2	0.62	2.08	9	2
1:A:121:THR:HG22	2:A:300:SAH:N1	0.62	2.09	10	2
1:A:77:ALA:O	1:A:104:MET:HE2	0.62	1.95	10	4
1:A:199:LEU:HD21	1:A:235:ARG:CD	0.62	2.24	8	5
1:A:84:ALA:O	1:A:87:LEU:HB3	0.62	1.93	18	5
1:A:127:LEU:HD23	1:A:155:GLU:HB3	0.62	1.70	6	1
1:A:77:ALA:HB1	2:A:300:SAH:N3	0.62	2.10	16	7
1:A:56:ALA:HB2	1:A:231:ILE:CD1	0.62	2.24	12	1
1:A:50:TYR:O	1:A:53:PRO:HD2	0.62	1.94	12	9
1:A:173:ASN:HA	1:A:180:LYS:HG3	0.62	1.71	3	1
1:A:172:THR:HB	1:A:230:ILE:CG2	0.62	2.25	6	2
1:A:171:ARG:HA	1:A:228:SER:HB2	0.62	1.70	17	1
1:A:134:PHE:O	1:A:160:THR:HA	0.62	1.95	15	8
1:A:171:ARG:HA	1:A:229:GLY:N	0.62	2.05	7	4
1:A:52:ALA:HB1	1:A:231:ILE:HG12	0.62	1.71	3	5
1:A:142:ALA:O	1:A:148:VAL:HB	0.62	1.95	10	3
1:A:72:LEU:HD22	1:A:94:GLN:HB3	0.62	1.70	18	14
1:A:204:VAL:HG11	1:A:230:ILE:HA	0.62	1.71	7	9
1:A:106:LYS:O	1:A:110:ALA:HB3	0.61	1.95	1	15
1:A:170:THR:CG2	1:A:171:ARG:N	0.61	2.63	20	15
1:A:11:LEU:HD13	1:A:123:GLY:N	0.61	2.09	6	2
1:A:122:LEU:N	2:A:300:SAH:HN62	0.61	1.93	11	6
1:A:144:SER:O	1:A:145:GLU:HB2	0.61	1.95	10	5
1:A:78:CYS:HB2	1:A:139:ILE:HD11	0.61	1.72	15	4
1:A:147:GLN:OE1	2:A:300:SAH:H5'2	0.61	1.96	20	1
1:A:64:PHE:HB2	1:A:165:LEU:HD22	0.61	1.71	1	2
1:A:173:ASN:OD1	1:A:177:LEU:O	0.61	2.18	3	1
1:A:109:ARG:HD3	1:A:117:LEU:HB2	0.61	1.73	14	1
1:A:37:TRP:HB2	2:A:300:SAH:HN2	0.61	1.54	17	1
1:A:184:GLU:HA	1:A:187:LEU:HD22	0.61	1.73	8	2
1:A:76:VAL:HG21	1:A:156:LEU:CD1	0.61	2.25	3	2
1:A:14:VAL:HG11	1:A:121:THR:OG1	0.61	1.95	6	3
1:A:143:LEU:O	1:A:170:THR:OG1	0.61	2.18	11	2
1:A:121:THR:HG22	2:A:300:SAH:C2	0.61	2.26	10	5
1:A:144:SER:HB2	1:A:150:CYS:H	0.61	1.56	15	13

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:74:LEU:HD13	1:A:156:LEU:HD12	0.61	1.70	17	1
1:A:71:ALA:O	1:A:94:GLN:HB2	0.61	1.95	8	4
1:A:143:LEU:HD11	1:A:168:LEU:HD13	0.61	1.72	18	3
1:A:204:VAL:CG2	1:A:229:GLY:O	0.61	2.48	11	8
1:A:11:LEU:HD12	1:A:121:THR:HG22	0.61	1.72	3	2
1:A:143:LEU:HD12	1:A:170:THR:HG21	0.61	1.72	15	2
1:A:126:PRO:HA	1:A:155:GLU:HG2	0.61	1.73	13	1
1:A:86:GLU:O	1:A:90:ARG:HD3	0.61	1.96	17	3
1:A:87:LEU:HD22	1:A:92:PHE:CD2	0.61	2.31	20	4
1:A:38:ALA:CA	2:A:300:SAH:HA	0.61	2.24	9	1
1:A:176:ASN:HB3	1:A:179:TYR:HB3	0.60	1.70	11	5
1:A:196:TRP:CZ3	1:A:234:TYR:CD2	0.60	2.89	6	1
1:A:170:THR:HG23	1:A:171:ARG:N	0.60	2.11	15	1
1:A:24:ILE:HD13	1:A:27:LEU:HD12	0.60	1.73	20	1
1:A:11:LEU:HD12	1:A:121:THR:CB	0.60	2.25	1	1
1:A:172:THR:HG22	1:A:230:ILE:HG21	0.60	1.73	4	1
1:A:173:ASN:N	1:A:174:PRO:CD	0.60	2.63	17	1
1:A:55:LEU:HG	1:A:202:GLN:HG2	0.60	1.74	1	2
1:A:85:VAL:HA	1:A:113:LEU:HD21	0.60	1.72	10	4
1:A:196:TRP:CZ3	1:A:234:TYR:CG	0.60	2.89	6	14
1:A:84:ALA:C	1:A:113:LEU:HG	0.60	2.21	18	6
1:A:56:ALA:HB1	1:A:167:CYS:SG	0.60	2.36	7	10
1:A:167:CYS:SG	1:A:233:LEU:HD11	0.60	2.37	20	3
1:A:14:VAL:O	1:A:18:VAL:HG13	0.60	1.97	15	2
1:A:171:ARG:O	1:A:174:PRO:HD3	0.60	1.95	3	4
1:A:183:LEU:O	1:A:183:LEU:HD12	0.60	1.97	2	18
1:A:41:TYR:CD1	2:A:300:SAH:HA	0.60	2.32	3	2
1:A:153:ILE:HG21	1:A:168:LEU:HD22	0.60	1.72	5	1
1:A:197:GLU:CD	1:A:240:VAL:HG22	0.60	2.22	7	1
2:A:300:SAH:HB1	2:A:300:SAH:H4'	0.60	1.72	8	1
1:A:139:ILE:O	1:A:168:LEU:HA	0.60	1.97	16	11
1:A:11:LEU:HG	2:A:300:SAH:N6	0.60	2.12	11	1
1:A:151:SER:C	1:A:154:PRO:HD2	0.60	2.22	18	12
1:A:77:ALA:HB3	2:A:300:SAH:N9	0.60	2.12	20	5
1:A:191:GLU:HG2	1:A:240:VAL:HG21	0.60	1.73	3	1
1:A:73:ILE:HD12	1:A:136:ALA:HB3	0.60	1.72	4	9
1:A:98:VAL:HG21	1:A:128:PRO:CG	0.60	2.27	13	3
1:A:94:GLN:HA	1:A:115:HIS:CD2	0.59	2.32	17	10
1:A:123:GLY:HA2	1:A:149:PRO:HD2	0.59	1.74	13	6
1:A:140:VAL:HG13	1:A:169:THR:OG1	0.59	1.97	4	5
1:A:75:ASP:HB2	1:A:114:TYR:HE1	0.59	1.57	16	7

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:87:LEU:CD1	1:A:113:LEU:HD12	0.59	2.27	2	2
1:A:143:LEU:HB2	1:A:170:THR:CG2	0.59	2.26	10	5
1:A:11:LEU:HD13	1:A:122:LEU:C	0.59	2.22	12	1
1:A:157:LEU:O	1:A:236:LYS:HE2	0.59	1.98	3	5
1:A:133:THR:HG22	1:A:134:PHE:CG	0.59	2.32	15	4
1:A:127:LEU:HD12	1:A:155:GLU:CG	0.59	2.27	9	2
1:A:198:CYS:HA	1:A:234:TYR:HA	0.59	1.74	7	1
1:A:168:LEU:HD11	1:A:232:TYR:CE2	0.59	2.32	9	1
1:A:160:THR:HB	1:A:236:LYS:HG3	0.59	1.73	2	3
1:A:131:GLU:HG3	1:A:158:ARG:O	0.59	1.96	11	6
1:A:199:LEU:HD11	1:A:235:ARG:HG3	0.59	1.75	10	4
1:A:35:ASP:OD2	1:A:101:SER:HB3	0.59	1.97	14	6
1:A:168:LEU:HD21	1:A:232:TYR:CZ	0.59	2.32	20	7
1:A:75:ASP:OD1	1:A:138:ILE:HG22	0.59	1.97	14	3
1:A:177:LEU:CB	1:A:178:PRO:HD3	0.59	2.28	3	2
1:A:122:LEU:CD1	1:A:125:GLU:HB3	0.59	2.28	7	4
1:A:35:ASP:HA	1:A:38:ALA:HB2	0.59	1.74	1	6
1:A:11:LEU:HD23	1:A:146:GLY:O	0.59	1.97	14	2
1:A:191:GLU:HG2	1:A:240:VAL:HB	0.59	1.74	11	2
1:A:55:LEU:HD23	1:A:202:GLN:HG2	0.59	1.75	12	1
1:A:11:LEU:HD22	1:A:149:PRO:HG3	0.59	1.75	19	1
1:A:52:ALA:O	1:A:56:ALA:HB3	0.58	1.97	1	1
1:A:84:ALA:HB1	1:A:113:LEU:HG	0.58	1.75	11	6
2:A:300:SAH:H4'	2:A:300:SAH:CB	0.58	2.27	8	1
1:A:138:ILE:HG23	1:A:138:ILE:O	0.58	1.98	15	20
1:A:84:ALA:CB	1:A:113:LEU:HD23	0.58	2.28	16	2
1:A:74:LEU:O	1:A:137:VAL:HG23	0.58	1.98	15	2
1:A:164:GLY:O	1:A:235:ARG:HA	0.58	1.97	6	9
1:A:11:LEU:CD2	1:A:149:PRO:CD	0.58	2.81	15	5
1:A:168:LEU:O	1:A:231:ILE:HG12	0.58	1.98	9	1
1:A:197:GLU:HB3	1:A:238:GLU:OE2	0.58	1.97	18	3
1:A:77:ALA:N	1:A:98:VAL:O	0.58	2.36	15	20
1:A:157:LEU:HD11	1:A:166:VAL:HG11	0.58	1.75	6	1
1:A:143:LEU:HB2	1:A:170:THR:OG1	0.58	1.98	11	1
1:A:51:ARG:HG3	1:A:55:LEU:HD13	0.58	1.73	18	1
1:A:157:LEU:CG	1:A:236:LYS:HE3	0.58	2.25	2	1
1:A:165:LEU:N	1:A:165:LEU:HD22	0.58	2.12	11	3
1:A:15:LEU:C	1:A:15:LEU:HD13	0.58	2.24	12	3
1:A:122:LEU:CG	1:A:125:GLU:HB2	0.58	2.28	11	6
1:A:41:TYR:HB2	2:A:300:SAH:N	0.58	2.12	11	1
1:A:166:VAL:HG21	1:A:236:LYS:CE	0.58	2.27	13	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:198:CYS:HA	1:A:234:TYR:CD1	0.58	2.33	2	1
1:A:199:LEU:HD13	1:A:235:ARG:CZ	0.58	2.29	18	1
1:A:144:SER:O	1:A:145:GLU:HB3	0.58	1.96	17	4
1:A:143:LEU:CD2	1:A:168:LEU:HD13	0.58	2.25	7	1
1:A:122:LEU:HD22	1:A:125:GLU:HB2	0.58	1.74	17	1
1:A:26:ASP:O	1:A:29:CYS:HB2	0.58	1.98	12	12
1:A:157:LEU:CD2	1:A:196:TRP:CE3	0.58	2.85	12	16
1:A:196:TRP:CH2	1:A:234:TYR:CD1	0.58	2.92	11	10
1:A:41:TYR:CB	2:A:300:SAH:HN2	0.58	2.11	8	3
1:A:75:ASP:CB	1:A:114:TYR:CE1	0.58	2.87	8	9
1:A:127:LEU:HD12	1:A:155:GLU:CB	0.58	2.28	3	3
1:A:171:ARG:HB2	1:A:228:SER:HB3	0.58	1.76	15	1
1:A:81:GLY:O	1:A:85:VAL:HG23	0.58	1.98	16	14
1:A:170:THR:O	1:A:229:GLY:HA2	0.58	1.98	7	2
1:A:142:ALA:HB1	1:A:148:VAL:HG23	0.58	1.75	10	4
1:A:36:ASP:OD1	1:A:37:TRP:N	0.58	2.37	17	1
1:A:77:ALA:HB1	2:A:300:SAH:H1'	0.57	1.76	11	12
1:A:230:ILE:CG2	1:A:232:TYR:CE1	0.57	2.87	12	5
1:A:171:ARG:NE	1:A:174:PRO:HB3	0.57	2.14	18	1
1:A:77:ALA:CB	2:A:300:SAH:N9	0.57	2.68	3	7
1:A:169:THR:HB	1:A:231:ILE:CG1	0.57	2.29	19	1
1:A:75:ASP:HB3	1:A:114:TYR:CE1	0.57	2.33	11	5
1:A:143:LEU:C	1:A:148:VAL:O	0.57	2.48	19	5
1:A:23:GLY:O	1:A:26:ASP:OD1	0.57	2.21	15	2
1:A:84:ALA:HB1	1:A:113:LEU:CG	0.57	2.29	18	5
1:A:78:CYS:HB2	1:A:139:ILE:HG13	0.57	1.76	9	10
1:A:204:VAL:CG1	1:A:230:ILE:HA	0.57	2.29	7	4
1:A:86:GLU:O	1:A:90:ARG:CD	0.57	2.52	12	3
1:A:202:GLN:OE1	1:A:231:ILE:HG21	0.57	1.99	8	2
1:A:203:PRO:HA	1:A:230:ILE:HD11	0.57	1.76	14	1
1:A:127:LEU:HD21	1:A:152:ALA:HB1	0.57	1.76	16	1
1:A:57:VAL:HG12	1:A:90:ARG:HD3	0.57	1.74	15	1
1:A:172:THR:HG22	1:A:230:ILE:CB	0.57	2.30	16	3
1:A:199:LEU:HD13	1:A:235:ARG:HH22	0.57	1.59	15	1
1:A:206:HIS:ND1	1:A:230:ILE:HD11	0.57	2.15	5	1
1:A:11:LEU:HD23	1:A:147:GLN:C	0.57	2.24	11	2
1:A:230:ILE:HG22	1:A:232:TYR:CE1	0.57	2.35	14	1
1:A:12:PRO:CG	1:A:124:GLN:HB3	0.57	2.29	18	1
1:A:176:ASN:HB3	1:A:179:TYR:CD2	0.57	2.34	16	7
1:A:157:LEU:HB3	1:A:236:LYS:HD3	0.57	1.76	7	5
1:A:98:VAL:HG12	1:A:118:SER:HB3	0.57	1.77	6	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:122:LEU:HD21	1:A:125:GLU:CD	0.57	2.25	14	1
1:A:60:LEU:C	1:A:60:LEU:HD23	0.56	2.25	14	19
1:A:139:ILE:HD11	1:A:156:LEU:HD13	0.56	1.75	7	1
1:A:123:GLY:C	1:A:152:ALA:HB2	0.56	2.25	17	3
1:A:160:THR:O	1:A:236:LYS:CD	0.56	2.52	18	4
1:A:15:LEU:HA	1:A:18:VAL:HG22	0.56	1.74	1	2
1:A:157:LEU:C	1:A:236:LYS:HE2	0.56	2.25	3	2
1:A:11:LEU:CD1	1:A:12:PRO:HD3	0.56	2.30	6	3
1:A:34:TYR:HB3	2:A:300:SAH:HB1	0.56	1.75	7	2
1:A:98:VAL:CG1	1:A:128:PRO:HG2	0.56	2.28	12	1
1:A:171:ARG:CD	1:A:174:PRO:HB3	0.56	2.30	18	1
1:A:52:ALA:HB3	1:A:53:PRO:CD	0.56	2.31	5	12
1:A:172:THR:HG23	1:A:230:ILE:HG21	0.56	1.77	1	2
1:A:72:LEU:HG	1:A:134:PHE:CD1	0.56	2.35	10	8
1:A:122:LEU:HG	1:A:125:GLU:HB2	0.56	1.76	18	4
1:A:196:TRP:CZ2	1:A:234:TYR:CE1	0.56	2.93	7	11
1:A:52:ALA:HB2	1:A:231:ILE:HB	0.56	1.77	9	3
1:A:144:SER:CA	1:A:149:PRO:HA	0.56	2.30	8	1
1:A:98:VAL:HG21	1:A:128:PRO:HG3	0.56	1.77	13	2
1:A:18:VAL:HG13	1:A:27:LEU:CD2	0.56	2.30	2	1
1:A:84:ALA:O	1:A:113:LEU:HG	0.56	2.01	17	9
1:A:137:VAL:HG22	1:A:166:VAL:HG13	0.56	1.72	11	2
1:A:31:LEU:HD22	1:A:100:GLY:O	0.56	2.00	17	2
1:A:147:GLN:HA	2:A:300:SAH:N7	0.56	2.15	17	1
1:A:157:LEU:CA	1:A:236:LYS:HE3	0.56	2.30	17	2
1:A:228:SER:O	1:A:229:GLY:O	0.56	2.23	7	2
1:A:49:LYS:HB2	1:A:205:ASP:OD2	0.56	2.01	4	1
1:A:85:VAL:HG22	1:A:111:ARG:CD	0.56	2.30	12	6
1:A:13:GLN:O	1:A:17:ARG:HG2	0.56	1.99	15	1
1:A:196:TRP:CE2	1:A:234:TYR:CD1	0.56	2.94	13	10
1:A:55:LEU:HD13	1:A:202:GLN:CB	0.56	2.30	13	7
1:A:231:ILE:CD1	1:A:233:LEU:HD12	0.56	2.31	19	2
1:A:17:ARG:NH1	1:A:30:LYS:HE2	0.56	2.16	7	1
1:A:204:VAL:HG11	1:A:230:ILE:CA	0.56	2.31	7	1
1:A:78:CYS:CA	1:A:139:ILE:HD11	0.56	2.30	15	4
1:A:88:GLN:CG	1:A:113:LEU:HD21	0.56	2.31	18	1
1:A:119:LEU:O	1:A:120:CYS:HB2	0.56	2.01	1	3
1:A:127:LEU:HD11	1:A:156:LEU:CD1	0.56	2.30	11	1
1:A:130:PRO:O	1:A:159:VAL:HG12	0.56	2.01	11	3
1:A:52:ALA:HB1	1:A:231:ILE:CG1	0.56	2.31	12	1
1:A:87:LEU:CD2	1:A:92:PHE:CD2	0.56	2.89	18	4

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:41:TYR:CE1	2:A:300:SAH:C	0.56	2.89	14	2
1:A:11:LEU:HD11	1:A:122:LEU:C	0.56	2.26	9	1
1:A:162:PRO:HA	1:A:236:LYS:O	0.55	2.01	2	7
1:A:157:LEU:O	1:A:236:LYS:HD2	0.55	2.02	14	2
1:A:122:LEU:HG	1:A:125:GLU:O	0.55	2.01	2	3
1:A:58:ASP:HA	1:A:90:ARG:NE	0.55	2.15	6	5
1:A:153:ILE:N	1:A:154:PRO:HD2	0.55	2.16	7	9
1:A:173:ASN:CB	1:A:177:LEU:HD13	0.55	2.32	3	2
1:A:76:VAL:HG21	1:A:156:LEU:CD2	0.55	2.31	5	4
1:A:206:HIS:CE1	1:A:230:ILE:HD11	0.55	2.36	5	2
1:A:74:LEU:CB	1:A:137:VAL:HG22	0.55	2.28	12	1
1:A:87:LEU:CD2	1:A:113:LEU:HD12	0.55	2.31	15	1
1:A:169:THR:HG22	1:A:231:ILE:CG1	0.55	2.31	17	5
1:A:11:LEU:CD2	1:A:147:GLN:O	0.55	2.54	18	6
1:A:196:TRP:CE3	1:A:234:TYR:CG	0.55	2.94	6	1
1:A:143:LEU:HD12	1:A:170:THR:CB	0.55	2.31	15	2
1:A:76:VAL:HG21	1:A:156:LEU:HD11	0.55	1.79	3	1
1:A:114:TYR:CG	1:A:117:LEU:HD21	0.55	2.36	15	3
1:A:143:LEU:HD11	1:A:168:LEU:CD1	0.55	2.31	15	2
1:A:143:LEU:HD21	1:A:153:ILE:HG12	0.55	1.78	12	1
1:A:51:ARG:HB2	1:A:204:VAL:HG13	0.55	1.78	13	1
1:A:15:LEU:HD13	1:A:122:LEU:HD11	0.55	1.78	17	1
1:A:142:ALA:O	1:A:143:LEU:HD23	0.55	2.00	11	5
1:A:88:GLN:CB	1:A:113:LEU:HD21	0.55	2.25	4	3
1:A:143:LEU:O	1:A:147:GLN:HG3	0.55	2.02	17	1
1:A:11:LEU:CG	1:A:147:GLN:O	0.55	2.54	18	1
1:A:62:ARG:HG3	1:A:90:ARG:NH2	0.55	2.16	2	1
1:A:78:CYS:CB	1:A:139:ILE:HD11	0.55	2.31	15	4
1:A:11:LEU:CD1	1:A:147:GLN:O	0.55	2.54	18	1
1:A:50:TYR:CE1	1:A:229:GLY:HA3	0.55	2.36	18	1
1:A:99:ASP:OD2	1:A:105:LEU:HD23	0.55	2.02	5	2
1:A:49:LYS:HB3	1:A:205:ASP:OD2	0.55	2.01	20	1
1:A:157:LEU:HD21	1:A:196:TRP:CZ3	0.55	2.36	18	8
1:A:199:LEU:HD21	1:A:235:ARG:HE	0.55	1.60	2	1
1:A:60:LEU:O	1:A:64:PHE:N	0.55	2.40	15	13
1:A:14:VAL:HG22	1:A:30:LYS:NZ	0.55	2.17	7	2
1:A:197:GLU:HB3	1:A:238:GLU:OE1	0.55	2.01	7	5
1:A:122:LEU:HD21	1:A:125:GLU:HG2	0.55	1.78	19	2
1:A:161:LYS:CG	1:A:162:PRO:HD2	0.55	2.31	19	3
1:A:172:THR:OG1	1:A:230:ILE:HB	0.55	2.02	19	2
1:A:176:ASN:HB3	1:A:179:TYR:CD1	0.55	2.37	14	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:95:VAL:HG11	1:A:114:TYR:CE1	0.54	2.37	1	1
1:A:187:LEU:HG	1:A:234:TYR:OH	0.54	2.02	6	1
1:A:157:LEU:HD23	1:A:196:TRP:CE3	0.54	2.37	18	2
1:A:127:LEU:HD23	1:A:155:GLU:CB	0.54	2.32	4	2
1:A:204:VAL:HG23	1:A:206:HIS:H	0.54	1.63	14	1
1:A:11:LEU:HD21	1:A:121:THR:C	0.54	2.26	16	1
1:A:164:GLY:O	1:A:165:LEU:HD12	0.54	2.01	7	2
1:A:75:ASP:OD2	1:A:138:ILE:HG23	0.54	2.03	13	4
1:A:77:ALA:CB	2:A:300:SAH:H1'	0.54	2.32	18	8
1:A:34:TYR:O	2:A:300:SAH:HB2	0.54	2.02	16	2
1:A:45:VAL:HB	1:A:50:TYR:CD1	0.54	2.38	10	1
1:A:104:MET:HE2	2:A:300:SAH:O3'	0.54	2.03	18	1
1:A:11:LEU:N	1:A:12:PRO:HD2	0.54	2.17	20	8
1:A:14:VAL:HG21	1:A:121:THR:HB	0.54	1.79	6	1
1:A:11:LEU:HD11	1:A:124:GLN:H	0.54	1.62	8	2
1:A:31:LEU:HD22	1:A:101:SER:HA	0.54	1.77	19	3
1:A:37:TRP:O	1:A:40:GLU:N	0.54	2.41	12	4
1:A:74:LEU:N	1:A:136:ALA:O	0.54	2.40	12	13
1:A:177:LEU:N	1:A:178:PRO:HD2	0.54	2.18	2	5
1:A:114:TYR:CG	1:A:117:LEU:HD11	0.54	2.36	4	8
1:A:56:ALA:CB	1:A:231:ILE:CD1	0.54	2.85	12	1
1:A:34:TYR:HB3	2:A:300:SAH:CB	0.54	2.33	7	3
1:A:88:GLN:HA	1:A:113:LEU:HD11	0.54	1.78	2	1
1:A:87:LEU:HD13	1:A:87:LEU:C	0.54	2.28	18	4
1:A:31:LEU:HD11	1:A:100:GLY:O	0.54	2.03	5	1
1:A:11:LEU:HD21	1:A:122:LEU:CA	0.54	2.33	9	2
1:A:57:VAL:HG23	1:A:87:LEU:CD2	0.54	2.30	16	2
1:A:14:VAL:HA	1:A:17:ARG:HG2	0.54	1.77	15	4
1:A:51:ARG:H	1:A:204:VAL:HG13	0.54	1.62	12	2
1:A:198:CYS:HB3	1:A:234:TYR:CD1	0.54	2.37	7	1
1:A:127:LEU:HD12	1:A:155:GLU:HB3	0.54	1.78	8	1
1:A:28:ALA:HA	1:A:31:LEU:HD12	0.54	1.78	13	1
1:A:36:ASP:OD2	1:A:37:TRP:N	0.54	2.41	15	1
1:A:11:LEU:CG	1:A:12:PRO:CD	0.54	2.84	6	3
1:A:11:LEU:HD23	2:A:300:SAH:N6	0.54	2.18	9	2
1:A:157:LEU:HD21	1:A:196:TRP:HB3	0.54	1.79	9	1
1:A:104:MET:HG2	2:A:300:SAH:O2'	0.54	2.01	11	1
1:A:196:TRP:CE3	1:A:234:TYR:CB	0.54	2.91	1	14
1:A:77:ALA:HB2	2:A:300:SAH:C4	0.54	2.32	3	3
1:A:192:ARG:HA	1:A:240:VAL:HB	0.54	1.79	3	1
1:A:11:LEU:HD21	1:A:149:PRO:HG2	0.54	1.79	15	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:41:TYR:CZ	2:A:300:SAH:C	0.54	2.91	18	1
1:A:50:TYR:CD1	1:A:52:ALA:HB3	0.54	2.37	19	1
1:A:127:LEU:HB3	1:A:128:PRO:HD2	0.54	1.78	17	2
1:A:200:VAL:HG23	1:A:202:GLN:NE2	0.53	2.17	2	3
1:A:179:TYR:O	1:A:182:THR:HB	0.53	2.03	9	3
1:A:14:VAL:HG11	1:A:121:THR:CG2	0.53	2.33	16	2
1:A:11:LEU:CD2	2:A:300:SAH:N6	0.53	2.71	9	2
1:A:99:ASP:OD1	1:A:105:LEU:HD23	0.53	2.03	14	3
1:A:172:THR:CG2	1:A:230:ILE:HG22	0.53	2.33	14	1
1:A:77:ALA:HB3	2:A:300:SAH:C4	0.53	2.33	7	4
1:A:179:TYR:O	1:A:183:LEU:N	0.53	2.37	19	12
1:A:199:LEU:HD11	1:A:235:ARG:CG	0.53	2.32	10	3
1:A:55:LEU:CD1	1:A:202:GLN:HB3	0.53	2.34	19	5
1:A:169:THR:C	1:A:170:THR:HG1	0.53	2.08	9	3
1:A:10:ARG:HD3	1:A:34:TYR:CE1	0.53	2.38	6	1
1:A:202:GLN:O	1:A:230:ILE:HG12	0.53	2.03	14	1
1:A:15:LEU:HD22	1:A:122:LEU:HD11	0.53	1.80	15	3
1:A:100:GLY:HA2	1:A:119:LEU:HD12	0.53	1.80	7	14
1:A:71:ALA:HB1	1:A:135:ASP:CB	0.53	2.33	6	5
1:A:77:ALA:HB1	2:A:300:SAH:C1'	0.53	2.32	11	4
1:A:57:VAL:CG1	1:A:90:ARG:HB2	0.53	2.33	5	3
1:A:204:VAL:HG21	1:A:230:ILE:N	0.53	2.18	9	2
1:A:84:ALA:HB1	1:A:113:LEU:HB3	0.53	1.80	18	2
1:A:52:ALA:CB	1:A:169:THR:OG1	0.53	2.57	14	1
1:A:11:LEU:HB3	2:A:300:SAH:N6	0.53	2.19	18	1
1:A:150:CYS:HA	1:A:153:ILE:HG13	0.53	1.81	15	10
1:A:120:CYS:CB	1:A:128:PRO:HG3	0.53	2.33	12	1
1:A:123:GLY:O	1:A:149:PRO:HB2	0.53	2.03	16	2
1:A:142:ALA:N	1:A:170:THR:OG1	0.53	2.42	5	3
1:A:192:ARG:HG2	1:A:240:VAL:HG11	0.53	1.79	6	1
1:A:122:LEU:HD11	1:A:125:GLU:HB3	0.53	1.81	14	2
1:A:190:LEU:O	1:A:195:VAL:HG22	0.53	2.02	7	3
1:A:12:PRO:HG3	1:A:124:GLN:HB3	0.53	1.81	18	1
1:A:206:HIS:CA	1:A:228:SER:O	0.53	2.56	1	7
1:A:162:PRO:HA	1:A:236:LYS:CB	0.53	2.34	13	4
1:A:60:LEU:HD12	1:A:167:CYS:HB2	0.53	1.81	8	2
1:A:172:THR:C	1:A:174:PRO:HD2	0.53	2.29	17	1
1:A:204:VAL:HG23	1:A:206:HIS:HD1	0.53	1.63	11	2
1:A:172:THR:OG1	1:A:230:ILE:HD12	0.53	2.04	2	1
1:A:88:GLN:HG3	1:A:113:LEU:HD21	0.53	1.81	9	2
1:A:87:LEU:HD22	1:A:92:PHE:CE2	0.53	2.39	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:172:THR:OG1	1:A:230:ILE:HG22	0.53	2.04	9	1
1:A:45:VAL:HB	1:A:50:TYR:CG	0.53	2.38	10	1
1:A:79:GLY:C	1:A:80:THR:OG1	0.53	2.52	14	1
1:A:127:LEU:HD13	1:A:156:LEU:CG	0.53	2.33	14	1
1:A:96:GLN:CB	1:A:134:PHE:CZ	0.53	2.91	4	15
1:A:143:LEU:HG	1:A:170:THR:OG1	0.53	2.04	8	3
1:A:145:GLU:O	1:A:145:GLU:HG2	0.53	2.03	14	3
1:A:55:LEU:HD22	1:A:203:PRO:HD2	0.53	1.81	7	1
1:A:142:ALA:O	1:A:148:VAL:HG11	0.53	2.02	11	2
1:A:74:LEU:HD12	1:A:159:VAL:HG11	0.53	1.80	12	1
1:A:99:ASP:O	1:A:119:LEU:HD12	0.53	2.04	1	3
1:A:202:GLN:OE1	1:A:231:ILE:HD12	0.53	2.03	11	5
1:A:168:LEU:HD11	1:A:232:TYR:CE1	0.53	2.37	16	2
1:A:11:LEU:HD22	1:A:122:LEU:C	0.53	2.28	15	3
1:A:172:THR:HA	1:A:180:LYS:HE3	0.53	1.80	13	1
1:A:145:GLU:OE1	1:A:147:GLN:NE2	0.53	2.42	17	1
1:A:166:VAL:O	1:A:233:LEU:HA	0.53	2.04	18	1
1:A:73:ILE:O	1:A:95:VAL:HA	0.53	2.03	7	5
1:A:77:ALA:HB2	1:A:99:ASP:HA	0.53	1.80	7	5
1:A:199:LEU:HD11	1:A:235:ARG:HE	0.53	1.62	6	2
1:A:235:ARG:NE	1:A:238:GLU:OE1	0.53	2.42	8	2
1:A:15:LEU:HD23	1:A:15:LEU:C	0.52	2.30	1	1
1:A:190:LEU:HD22	1:A:195:VAL:HG21	0.52	1.81	18	4
1:A:240:VAL:O	1:A:240:VAL:HG22	0.52	2.04	12	3
1:A:11:LEU:HD22	1:A:147:GLN:O	0.52	2.04	20	1
1:A:76:VAL:HB	1:A:139:ILE:CD1	0.52	2.28	5	6
1:A:11:LEU:HD23	1:A:123:GLY:HA3	0.52	1.77	10	1
1:A:81:GLY:HA3	1:A:107:GLN:HG2	0.52	1.81	20	3
1:A:109:ARG:HG3	1:A:117:LEU:HD12	0.52	1.80	17	1
1:A:177:LEU:HD13	1:A:177:LEU:C	0.52	2.29	18	1
1:A:50:TYR:CE1	1:A:52:ALA:HB3	0.52	2.39	19	2
1:A:120:CYS:O	2:A:300:SAH:N1	0.52	2.43	19	1
1:A:37:TRP:CE3	1:A:40:GLU:OE2	0.52	2.62	2	3
1:A:127:LEU:HG	1:A:156:LEU:CD1	0.52	2.34	6	1
1:A:153:ILE:O	1:A:157:LEU:HD13	0.52	2.04	10	8
1:A:12:PRO:HB3	1:A:123:GLY:N	0.52	2.20	2	3
1:A:191:GLU:HG3	1:A:197:GLU:HG2	0.52	1.80	3	1
1:A:196:TRP:CZ2	1:A:234:TYR:CD1	0.52	2.97	15	12
1:A:204:VAL:HG23	1:A:230:ILE:CA	0.52	2.31	15	2
1:A:80:THR:HA	1:A:104:MET:HE1	0.52	1.80	8	1
1:A:126:PRO:HA	1:A:155:GLU:OE1	0.52	2.04	16	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:23:GLY:O	1:A:26:ASP:OD2	0.52	2.28	14	2
1:A:64:PHE:CE2	1:A:66:GLY:CA	0.52	2.93	2	13
1:A:169:THR:HG22	1:A:231:ILE:HG12	0.52	1.81	6	6
1:A:191:GLU:HB3	1:A:240:VAL:CG2	0.52	2.35	4	1
1:A:31:LEU:HD21	1:A:102:PRO:HD3	0.52	1.80	5	1
1:A:171:ARG:CG	1:A:174:PRO:HG3	0.52	2.32	6	2
1:A:150:CYS:O	1:A:154:PRO:HD3	0.52	2.05	17	4
1:A:56:ALA:HB2	1:A:231:ILE:HD13	0.52	1.81	14	1
1:A:171:ARG:HB3	1:A:174:PRO:HG3	0.52	1.81	17	1
1:A:165:LEU:HD22	1:A:165:LEU:N	0.52	2.19	18	6
1:A:172:THR:O	1:A:180:LYS:HG3	0.52	2.03	13	1
1:A:189:SER:O	1:A:192:ARG:HG2	0.52	2.04	15	2
1:A:122:LEU:HD11	1:A:125:GLU:HB2	0.52	1.80	11	3
1:A:240:VAL:HG13	1:A:240:VAL:O	0.52	2.05	14	3
1:A:11:LEU:HD21	1:A:122:LEU:N	0.52	2.20	16	1
1:A:11:LEU:HD23	1:A:149:PRO:HD3	0.52	1.81	19	1
1:A:196:TRP:CZ3	1:A:234:TYR:CD1	0.52	2.98	18	10
1:A:166:VAL:CG2	1:A:236:LYS:CE	0.52	2.88	13	1
1:A:35:ASP:OD2	1:A:101:SER:HB2	0.52	2.05	5	2
1:A:126:PRO:HB3	1:A:155:GLU:CG	0.52	2.34	14	2
1:A:198:CYS:HB3	1:A:234:TYR:CZ	0.52	2.39	7	1
1:A:175:SER:O	1:A:176:ASN:CG	0.52	2.53	18	1
1:A:206:HIS:HA	1:A:228:SER:O	0.51	2.05	1	4
1:A:41:TYR:O	1:A:44:ASP:HB2	0.51	2.05	8	16
1:A:49:LYS:O	1:A:205:ASP:OD1	0.51	2.28	2	2
1:A:99:ASP:HB2	1:A:105:LEU:HG	0.51	1.83	8	5
1:A:28:ALA:O	1:A:32:ARG:HG2	0.51	2.04	14	4
1:A:201:THR:HG23	1:A:232:TYR:HB3	0.51	1.81	7	2
1:A:11:LEU:CB	2:A:300:SAH:N6	0.51	2.70	10	1
1:A:199:LEU:HD13	1:A:200:VAL:HG13	0.51	1.81	12	1
1:A:31:LEU:HD13	1:A:102:PRO:CD	0.51	2.33	13	1
1:A:14:VAL:HG22	1:A:30:LYS:CE	0.51	2.35	14	1
1:A:72:LEU:CD1	1:A:134:PHE:CD1	0.51	2.93	17	19
1:A:232:TYR:CD2	1:A:234:TYR:CE2	0.51	2.97	7	11
1:A:73:ILE:HG13	1:A:92:PHE:HD2	0.51	1.65	10	4
1:A:77:ALA:CB	1:A:99:ASP:HA	0.51	2.35	7	11
1:A:161:LYS:O	1:A:236:LYS:HB2	0.51	2.05	20	5
1:A:144:SER:HA	1:A:149:PRO:HA	0.51	1.82	8	3
1:A:11:LEU:CD1	2:A:300:SAH:N6	0.51	2.74	11	1
1:A:56:ALA:HB2	1:A:231:ILE:HD11	0.51	1.80	12	1
1:A:11:LEU:CD1	1:A:121:THR:HB	0.51	2.29	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:153:ILE:HB	1:A:154:PRO:HD3	0.51	1.81	1	10
1:A:160:THR:O	1:A:236:LYS:HG2	0.51	2.05	12	2
1:A:123:GLY:HA2	1:A:152:ALA:CB	0.51	2.35	15	2
1:A:137:VAL:HB	1:A:166:VAL:HG13	0.51	1.82	16	1
1:A:15:LEU:CB	1:A:122:LEU:HD21	0.51	2.35	17	1
1:A:33:PHE:O	1:A:36:ASP:OD1	0.51	2.29	17	1
1:A:38:ALA:HB2	2:A:300:SAH:HG1	0.51	1.81	18	1
1:A:64:PHE:CD2	1:A:165:LEU:HD23	0.51	2.40	2	2
1:A:85:VAL:HG22	1:A:113:LEU:HD21	0.51	1.83	3	1
1:A:17:ARG:NH1	1:A:30:LYS:HD2	0.51	2.20	13	1
1:A:162:PRO:HA	1:A:236:LYS:HB2	0.51	1.83	13	2
1:A:51:ARG:HG2	1:A:55:LEU:HD13	0.51	1.82	2	1
1:A:152:ALA:O	1:A:155:GLU:HB2	0.51	2.06	15	7
1:A:55:LEU:HD13	1:A:202:GLN:CG	0.51	2.32	6	2
1:A:191:GLU:HG2	1:A:196:TRP:O	0.51	2.06	7	4
1:A:88:GLN:CG	1:A:113:LEU:HD11	0.51	2.35	6	2
1:A:120:CYS:SG	1:A:128:PRO:HG3	0.51	2.45	12	1
1:A:57:VAL:HG22	1:A:90:ARG:CG	0.51	2.36	13	1
1:A:14:VAL:HA	1:A:17:ARG:CG	0.51	2.36	1	2
1:A:57:VAL:CG2	1:A:87:LEU:HD23	0.51	2.31	3	1
1:A:199:LEU:HD11	1:A:235:ARG:NE	0.51	2.21	6	3
1:A:50:TYR:HA	1:A:204:VAL:HG11	0.51	1.83	12	1
1:A:60:LEU:O	1:A:64:PHE:CB	0.51	2.59	6	18
1:A:122:LEU:HD23	1:A:125:GLU:CB	0.51	2.36	1	1
1:A:55:LEU:O	1:A:59:CYS:HB2	0.51	2.05	4	13
1:A:145:GLU:OE2	1:A:174:PRO:CG	0.51	2.59	3	1
1:A:76:VAL:CG1	1:A:139:ILE:HD12	0.51	2.36	6	2
1:A:191:GLU:OE1	1:A:197:GLU:HG3	0.51	2.06	11	2
1:A:78:CYS:N	1:A:139:ILE:HD11	0.51	2.20	8	3
1:A:231:ILE:HG23	1:A:233:LEU:CD1	0.51	2.35	8	1
1:A:63:ALA:HB1	1:A:199:LEU:HD21	0.51	1.81	14	2
1:A:76:VAL:CG2	1:A:156:LEU:CD2	0.51	2.89	1	2
1:A:92:PHE:CD1	1:A:92:PHE:N	0.51	2.79	12	18
1:A:14:VAL:HG13	1:A:17:ARG:NH1	0.51	2.21	11	3
1:A:96:GLN:HG2	1:A:116:HIS:HB2	0.51	1.82	5	6
1:A:187:LEU:O	1:A:191:GLU:HG3	0.51	2.05	4	1
1:A:11:LEU:HD21	1:A:122:LEU:HA	0.51	1.82	9	1
1:A:11:LEU:CD2	1:A:12:PRO:HD3	0.51	2.33	10	1
1:A:206:HIS:CE1	1:A:230:ILE:CD1	0.51	2.93	14	1
1:A:147:GLN:CA	2:A:300:SAH:N7	0.51	2.74	17	1
1:A:50:TYR:OH	1:A:169:THR:HB	0.51	2.06	20	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:68:PRO:HB3	1:A:92:PHE:CG	0.51	2.41	19	6
1:A:24:ILE:HA	1:A:27:LEU:HD12	0.51	1.82	4	4
1:A:108:ALA:CB	1:A:114:TYR:CE2	0.51	2.93	11	6
1:A:152:ALA:O	1:A:155:GLU:HB3	0.51	2.06	9	2
1:A:122:LEU:H	2:A:300:SAH:HN62	0.51	1.49	11	1
1:A:165:LEU:HD13	1:A:235:ARG:HG2	0.51	1.83	12	4
1:A:121:THR:HA	2:A:300:SAH:C6	0.50	2.35	1	9
1:A:38:ALA:N	1:A:39:PRO:HD2	0.50	2.20	18	5
1:A:62:ARG:HG2	1:A:90:ARG:NH2	0.50	2.21	4	1
1:A:130:PRO:O	1:A:159:VAL:HB	0.50	2.06	19	6
1:A:231:ILE:CD1	1:A:233:LEU:CD1	0.50	2.89	19	3
1:A:48:LEU:O	1:A:205:ASP:HB2	0.50	2.06	12	1
1:A:86:GLU:O	1:A:90:ARG:HD2	0.50	2.06	12	1
1:A:204:VAL:HB	1:A:229:GLY:O	0.50	2.05	13	1
1:A:23:GLY:O	1:A:27:LEU:HD13	0.50	2.06	15	2
1:A:11:LEU:HB2	1:A:12:PRO:HD3	0.50	1.82	18	1
1:A:196:TRP:O	1:A:196:TRP:CD1	0.50	2.65	14	19
1:A:68:PRO:HG2	1:A:92:PHE:CE1	0.50	2.41	8	8
1:A:11:LEU:HG	2:A:300:SAH:C8	0.50	2.35	4	1
1:A:95:VAL:O	1:A:115:HIS:N	0.50	2.45	13	12
1:A:196:TRP:CD1	1:A:196:TRP:C	0.50	2.89	19	10
1:A:161:LYS:C	1:A:236:LYS:HD3	0.50	2.31	9	5
1:A:37:TRP:HB2	2:A:300:SAH:HA	0.50	1.84	11	1
1:A:196:TRP:CZ3	1:A:234:TYR:CB	0.50	2.94	18	2
1:A:55:LEU:O	1:A:59:CYS:CB	0.50	2.59	15	3
1:A:75:ASP:CB	1:A:114:TYR:HE1	0.50	2.20	17	3
1:A:68:PRO:CB	1:A:92:PHE:HA	0.50	2.36	20	3
1:A:60:LEU:HD22	1:A:92:PHE:HE2	0.50	1.65	18	1
1:A:197:GLU:CD	1:A:240:VAL:CG2	0.50	2.85	18	1
1:A:11:LEU:O	1:A:14:VAL:N	0.50	2.45	18	3
1:A:11:LEU:HD22	1:A:149:PRO:HD3	0.50	1.82	6	1
1:A:154:PRO:O	1:A:158:ARG:HG2	0.50	2.07	7	3
1:A:180:LYS:NZ	1:A:184:GLU:OE1	0.50	2.44	6	1
1:A:68:PRO:CG	1:A:92:PHE:CD1	0.50	2.95	18	4
1:A:150:CYS:HA	1:A:153:ILE:HD11	0.50	1.82	18	3
1:A:137:VAL:O	1:A:166:VAL:HA	0.50	2.05	13	1
1:A:88:GLN:HB2	1:A:113:LEU:HG	0.50	1.84	1	1
1:A:14:VAL:HG22	1:A:30:LYS:HZ1	0.50	1.67	7	1
1:A:140:VAL:HA	1:A:169:THR:HG22	0.50	1.84	7	1
1:A:80:THR:CA	1:A:104:MET:HE1	0.50	2.37	8	1
1:A:183:LEU:O	1:A:187:LEU:HD13	0.50	2.06	13	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:60:LEU:N	1:A:233:LEU:HD21	0.50	2.22	17	2
1:A:177:LEU:HB3	1:A:178:PRO:CD	0.50	2.36	18	1
1:A:108:ALA:HB1	1:A:117:LEU:HD11	0.50	1.83	18	5
1:A:84:ALA:HA	1:A:87:LEU:HB2	0.50	1.84	3	2
1:A:122:LEU:CD1	1:A:125:GLU:HB2	0.50	2.36	11	4
1:A:153:ILE:HA	1:A:156:LEU:HD23	0.50	1.82	16	2
1:A:168:LEU:C	1:A:168:LEU:CD1	0.50	2.83	7	1
1:A:145:GLU:OE1	1:A:174:PRO:HG3	0.50	2.06	16	1
1:A:15:LEU:HB2	1:A:122:LEU:HD21	0.50	1.83	17	1
1:A:64:PHE:CZ	1:A:66:GLY:O	0.50	2.65	6	13
1:A:199:LEU:CG	1:A:235:ARG:HG2	0.50	2.37	1	1
1:A:130:PRO:HG2	1:A:133:THR:OG1	0.50	2.07	6	7
1:A:11:LEU:HD22	1:A:123:GLY:HA3	0.50	1.82	6	3
1:A:121:THR:CG2	2:A:300:SAH:N1	0.50	2.75	10	1
1:A:37:TRP:HB2	2:A:300:SAH:N	0.50	2.20	17	1
1:A:10:ARG:O	1:A:13:GLN:HB2	0.50	2.07	18	5
1:A:17:ARG:CZ	1:A:27:LEU:HD12	0.50	2.37	3	1
1:A:196:TRP:CE3	1:A:234:TYR:HB3	0.50	2.42	18	5
1:A:38:ALA:HB3	1:A:103:GLU:OE2	0.50	2.05	6	2
1:A:68:PRO:CB	1:A:92:PHE:CD1	0.50	2.95	12	5
1:A:69:HIS:C	1:A:69:HIS:CD2	0.50	2.90	20	1
1:A:95:VAL:CG1	1:A:114:TYR:CE1	0.49	2.95	1	1
1:A:17:ARG:NH2	1:A:27:LEU:HD12	0.49	2.22	3	1
1:A:35:ASP:HB3	1:A:103:GLU:OE2	0.49	2.06	18	2
1:A:157:LEU:CB	1:A:236:LYS:HE3	0.49	2.35	17	2
1:A:138:ILE:HG13	1:A:167:CYS:SG	0.49	2.47	19	1
1:A:172:THR:OG1	1:A:230:ILE:CG2	0.49	2.59	20	1
1:A:188:ASP:OD2	1:A:192:ARG:HG3	0.49	2.07	6	3
1:A:197:GLU:CB	1:A:238:GLU:HB2	0.49	2.37	18	2
1:A:76:VAL:HG12	1:A:77:ALA:N	0.49	2.23	7	7
2:A:300:SAH:HG1	2:A:300:SAH:C3'	0.49	2.37	1	2
1:A:190:LEU:O	1:A:195:VAL:HG23	0.49	2.08	2	1
1:A:11:LEU:HD13	1:A:123:GLY:CA	0.49	2.38	6	1
1:A:127:LEU:HD12	1:A:156:LEU:HD21	0.49	1.83	7	1
1:A:177:LEU:HB2	1:A:178:PRO:CD	0.49	2.36	16	4
1:A:58:ASP:HA	1:A:90:ARG:CZ	0.49	2.37	13	5
1:A:233:LEU:HD12	1:A:233:LEU:N	0.49	2.22	17	4
1:A:124:GLN:HG3	1:A:124:GLN:O	0.49	2.07	13	2
1:A:150:CYS:O	1:A:154:PRO:CD	0.49	2.60	17	1
1:A:37:TRP:CE2	1:A:40:GLU:OE1	0.49	2.65	18	1
1:A:100:GLY:O	1:A:119:LEU:HD11	0.49	2.07	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:157:LEU:HB3	1:A:236:LYS:NZ	0.49	2.22	6	3
1:A:96:GLN:HB3	1:A:134:PHE:CZ	0.49	2.43	11	5
1:A:196:TRP:CH2	1:A:234:TYR:CE2	0.49	3.01	6	1
1:A:11:LEU:HD12	1:A:12:PRO:CD	0.49	2.36	17	1
1:A:144:SER:HB3	1:A:150:CYS:H	0.49	1.67	17	1
1:A:127:LEU:CD1	1:A:155:GLU:HB2	0.49	2.36	18	2
1:A:157:LEU:HB3	1:A:236:LYS:CE	0.49	2.37	1	2
1:A:196:TRP:CE3	1:A:234:TYR:CD1	0.49	3.01	5	6
1:A:131:GLU:CG	1:A:158:ARG:HG3	0.49	2.37	14	1
1:A:140:VAL:HB	1:A:169:THR:CG2	0.49	2.38	14	1
1:A:41:TYR:CE2	2:A:300:SAH:C	0.49	2.96	17	1
1:A:231:ILE:HD13	1:A:233:LEU:HD12	0.49	1.84	19	1
1:A:11:LEU:HD11	2:A:300:SAH:H2'	0.49	1.83	3	1
1:A:50:TYR:CE1	1:A:229:GLY:CA	0.49	2.96	9	2
1:A:202:GLN:H	1:A:231:ILE:HG22	0.49	1.68	12	3
1:A:140:VAL:HG13	1:A:169:THR:HG21	0.49	1.83	7	1
1:A:50:TYR:CE1	1:A:229:GLY:O	0.49	2.65	9	1
1:A:191:GLU:C	1:A:240:VAL:HG12	0.49	2.32	15	1
1:A:191:GLU:HB3	1:A:240:VAL:CG1	0.49	2.36	20	1
1:A:77:ALA:CA	1:A:99:ASP:HA	0.49	2.38	1	14
1:A:199:LEU:HD11	1:A:235:ARG:HG2	0.49	1.83	1	1
1:A:204:VAL:CG2	1:A:230:ILE:HG13	0.49	2.37	1	1
1:A:121:THR:HA	2:A:300:SAH:C2	0.49	2.37	3	7
1:A:81:GLY:CA	1:A:107:GLN:HB3	0.49	2.38	1	4
1:A:48:LEU:O	1:A:205:ASP:OD1	0.49	2.31	2	4
1:A:82:LEU:C	1:A:82:LEU:HD23	0.49	2.33	2	1
1:A:123:GLY:HA3	1:A:149:PRO:CD	0.49	2.38	18	4
1:A:101:SER:CB	2:A:300:SAH:O3'	0.49	2.61	12	1
1:A:60:LEU:HB2	1:A:167:CYS:SG	0.49	2.48	14	1
1:A:51:ARG:CG	1:A:55:LEU:HD13	0.49	2.38	18	1
1:A:11:LEU:CD2	1:A:147:GLN:HA	0.49	2.38	1	3
1:A:34:TYR:HB3	2:A:300:SAH:HB2	0.49	1.83	2	1
1:A:49:LYS:O	1:A:49:LYS:HG3	0.49	2.08	14	1
1:A:85:VAL:CA	1:A:113:LEU:HD21	0.49	2.38	16	1
1:A:48:LEU:O	1:A:205:ASP:OD2	0.49	2.31	17	1
1:A:126:PRO:HB3	1:A:155:GLU:CD	0.49	2.33	2	2
1:A:50:TYR:CZ	1:A:229:GLY:HA2	0.49	2.43	13	1
1:A:173:ASN:ND2	1:A:206:HIS:O	0.49	2.45	17	1
1:A:168:LEU:O	1:A:232:TYR:N	0.49	2.46	19	1
1:A:85:VAL:CG2	1:A:113:LEU:HD21	0.48	2.38	3	1
1:A:122:LEU:CG	1:A:125:GLU:HB3	0.48	2.38	7	4

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:131:GLU:HG2	1:A:158:ARG:HB3	0.48	1.85	13	4
1:A:131:GLU:HG3	1:A:158:ARG:HB3	0.48	1.85	2	1
1:A:127:LEU:HG	1:A:156:LEU:CD2	0.48	2.38	6	1
1:A:173:ASN:CB	1:A:180:LYS:HG3	0.48	2.37	9	1
1:A:11:LEU:HD22	1:A:123:GLY:N	0.48	2.23	15	1
1:A:77:ALA:O	1:A:104:MET:CG	0.48	2.61	15	1
1:A:106:LYS:O	1:A:110:ALA:CB	0.48	2.62	7	13
1:A:26:ASP:HA	1:A:29:CYS:HB2	0.48	1.85	8	6
1:A:158:ARG:HA	1:A:236:LYS:HE2	0.48	1.84	7	2
1:A:107:GLN:O	1:A:111:ARG:CG	0.48	2.53	8	1
1:A:27:LEU:O	1:A:31:LEU:HG	0.48	2.07	9	1
1:A:173:ASN:ND2	1:A:180:LYS:HB3	0.48	2.23	9	1
1:A:94:GLN:HA	1:A:115:HIS:CE1	0.48	2.44	10	4
1:A:191:GLU:OE1	1:A:240:VAL:HG11	0.48	2.08	11	1
1:A:173:ASN:O	1:A:177:LEU:HD23	0.48	2.09	13	1
1:A:122:LEU:HD21	1:A:125:GLU:OE1	0.48	2.08	14	1
1:A:72:LEU:HD22	1:A:94:GLN:CB	0.48	2.38	18	1
1:A:96:GLN:CD	1:A:134:PHE:CE1	0.48	2.92	20	9
1:A:14:VAL:HB	1:A:121:THR:CB	0.48	2.38	4	3
1:A:52:ALA:CB	1:A:231:ILE:HG12	0.48	2.38	4	2
1:A:84:ALA:HB2	1:A:114:TYR:HE2	0.48	1.66	19	2
1:A:100:GLY:HA2	1:A:119:LEU:CD1	0.48	2.38	10	6
1:A:71:ALA:HA	1:A:135:ASP:OD1	0.48	2.08	16	4
1:A:143:LEU:HD22	1:A:153:ILE:CD1	0.48	2.33	17	1
1:A:183:LEU:HD12	1:A:183:LEU:C	0.48	2.33	2	5
1:A:199:LEU:HB2	1:A:233:LEU:O	0.48	2.09	2	1
1:A:72:LEU:CG	1:A:134:PHE:CD1	0.48	2.97	10	4
1:A:195:VAL:O	1:A:237:GLN:HA	0.48	2.08	12	8
1:A:160:THR:O	1:A:236:LYS:HD2	0.48	2.08	18	2
1:A:37:TRP:O	1:A:38:ALA:C	0.48	2.55	12	3
1:A:31:LEU:HD22	1:A:101:SER:CA	0.48	2.39	19	2
1:A:58:ASP:O	1:A:62:ARG:HG3	0.48	2.09	13	3
1:A:41:TYR:CD2	2:A:300:SAH:C	0.48	2.96	19	1
1:A:169:THR:CB	1:A:231:ILE:HA	0.48	2.39	19	1
1:A:17:ARG:HG3	1:A:18:VAL:N	0.48	2.24	9	6
1:A:35:ASP:OD2	1:A:101:SER:OG	0.48	2.31	7	3
1:A:149:PRO:O	1:A:152:ALA:N	0.48	2.45	19	4
1:A:67:SER:O	1:A:70:ASP:OD2	0.48	2.32	5	1
1:A:51:ARG:HG2	1:A:54:ARG:HH21	0.48	1.68	6	1
1:A:122:LEU:HG	1:A:125:GLU:HB3	0.48	1.85	15	3
1:A:17:ARG:NH1	1:A:27:LEU:HA	0.48	2.24	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:59:CYS:SG	1:A:202:GLN:HG2	0.48	2.48	18	2
1:A:202:GLN:O	1:A:230:ILE:CG1	0.48	2.61	14	1
1:A:11:LEU:HD23	2:A:300:SAH:C8	0.48	2.38	20	1
1:A:153:ILE:N	1:A:154:PRO:CD	0.48	2.76	17	12
1:A:196:TRP:CD2	1:A:234:TYR:CD1	0.48	3.02	5	4
1:A:41:TYR:CE2	2:A:300:SAH:HA	0.48	2.43	18	2
1:A:78:CYS:CB	1:A:140:VAL:O	0.48	2.59	6	6
1:A:50:TYR:CE1	1:A:229:GLY:HA2	0.48	2.43	13	2
1:A:79:GLY:HA3	1:A:114:TYR:OH	0.48	2.07	6	1
1:A:173:ASN:OD1	1:A:180:LYS:HD2	0.48	2.08	6	3
1:A:33:PHE:O	1:A:36:ASP:OD2	0.48	2.32	15	1
1:A:88:GLN:CG	1:A:113:LEU:CD2	0.48	2.92	18	1
1:A:41:TYR:CD2	2:A:300:SAH:HA	0.48	2.43	19	1
1:A:74:LEU:CD1	1:A:134:PHE:CD2	0.48	2.95	10	11
1:A:155:GLU:N	1:A:155:GLU:OE2	0.48	2.47	1	1
1:A:132:GLY:HA2	1:A:161:LYS:HG2	0.48	1.86	2	2
1:A:11:LEU:HD13	1:A:122:LEU:HD12	0.48	1.84	15	1
1:A:171:ARG:CB	1:A:228:SER:HB3	0.48	2.39	15	1
1:A:74:LEU:CD1	1:A:134:PHE:HD2	0.48	2.19	4	8
1:A:82:LEU:HD21	1:A:86:GLU:OE1	0.48	2.08	2	1
2:A:300:SAH:N3	2:A:300:SAH:H2'	0.48	2.24	5	1
1:A:98:VAL:HG11	1:A:128:PRO:CB	0.48	2.39	20	2
1:A:15:LEU:O	1:A:18:VAL:HG12	0.48	2.09	12	3
1:A:121:THR:HB	2:A:300:SAH:C6	0.48	2.39	8	4
1:A:77:ALA:HB3	2:A:300:SAH:H1'	0.48	1.86	18	1
1:A:84:ALA:O	1:A:113:LEU:HD11	0.48	2.09	18	1
1:A:15:LEU:HD23	1:A:122:LEU:HD11	0.47	1.85	4	2
1:A:172:THR:OG1	1:A:180:LYS:HG3	0.47	2.08	13	1
1:A:200:VAL:HG22	1:A:202:GLN:NE2	0.47	2.24	13	1
1:A:73:ILE:HA	1:A:136:ALA:O	0.47	2.08	17	1
1:A:74:LEU:HB2	1:A:134:PHE:CD2	0.47	2.44	17	5
1:A:127:LEU:CD2	1:A:156:LEU:HD21	0.47	2.35	14	2
1:A:200:VAL:CG2	1:A:201:THR:N	0.47	2.76	3	3
1:A:61:SER:HA	1:A:64:PHE:HB3	0.47	1.84	19	4
1:A:11:LEU:C	1:A:11:LEU:CD2	0.47	2.79	9	1
1:A:24:ILE:CA	1:A:27:LEU:HD13	0.47	2.38	13	1
1:A:153:ILE:O	1:A:156:LEU:N	0.47	2.45	19	4
1:A:41:TYR:CE1	2:A:300:SAH:HB1	0.47	2.43	1	2
1:A:199:LEU:HD21	1:A:235:ARG:CG	0.47	2.39	1	1
1:A:236:LYS:O	1:A:237:GLN:O	0.47	2.31	2	3
1:A:12:PRO:HB3	1:A:124:GLN:H	0.47	1.70	3	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:235:ARG:HD3	1:A:238:GLU:OE2	0.47	2.08	3	5
1:A:11:LEU:N	1:A:12:PRO:CD	0.47	2.77	1	5
1:A:77:ALA:HB1	2:A:300:SAH:C4	0.47	2.39	1	2
1:A:108:ALA:CB	1:A:117:LEU:HD11	0.47	2.39	12	3
1:A:160:THR:CG2	1:A:236:LYS:HG3	0.47	2.40	2	2
1:A:206:HIS:CD2	1:A:230:ILE:HD12	0.47	2.44	1	1
1:A:157:LEU:HD21	1:A:196:TRP:HE3	0.47	1.63	5	1
1:A:114:TYR:CD2	1:A:114:TYR:N	0.47	2.83	11	3
1:A:74:LEU:HB3	1:A:137:VAL:CG2	0.47	2.34	12	1
1:A:64:PHE:CE2	1:A:66:GLY:O	0.47	2.68	19	2
1:A:76:VAL:HG13	1:A:127:LEU:CD2	0.47	2.39	2	1
1:A:88:GLN:HB2	1:A:113:LEU:CD1	0.47	2.40	2	4
1:A:104:MET:O	1:A:107:GLN:HG2	0.47	2.08	3	1
1:A:200:VAL:CG2	1:A:202:GLN:OE1	0.47	2.62	3	1
1:A:157:LEU:O	1:A:160:THR:HB	0.47	2.10	10	3
1:A:14:VAL:O	1:A:17:ARG:CG	0.47	2.62	9	1
1:A:60:LEU:O	1:A:64:PHE:HB2	0.47	2.09	10	1
1:A:17:ARG:HD3	1:A:30:LYS:HE3	0.47	1.85	11	1
1:A:141:GLY:O	1:A:147:GLN:OE1	0.47	2.33	14	1
1:A:10:ARG:C	1:A:12:PRO:HD2	0.47	2.35	17	2
1:A:173:ASN:OD1	1:A:177:LEU:HD22	0.47	2.09	18	1
1:A:131:GLU:HG3	1:A:158:ARG:HG2	0.47	1.85	20	1
1:A:60:LEU:HD22	1:A:92:PHE:HZ	0.47	1.70	17	3
1:A:172:THR:O	1:A:173:ASN:CB	0.47	2.62	2	2
1:A:155:GLU:HA	1:A:158:ARG:HE	0.47	1.69	4	1
1:A:14:VAL:HG12	1:A:121:THR:OG1	0.47	2.09	5	2
1:A:88:GLN:CD	1:A:113:LEU:HG	0.47	2.35	5	1
1:A:199:LEU:HD11	1:A:235:ARG:HD3	0.47	1.86	7	1
1:A:38:ALA:HB3	1:A:39:PRO:CD	0.47	2.40	12	4
1:A:205:ASP:HB2	1:A:228:SER:O	0.47	2.10	13	2
1:A:187:LEU:HD12	1:A:196:TRP:HZ2	0.47	1.70	16	2
1:A:60:LEU:HA	1:A:233:LEU:CD2	0.47	2.40	10	6
1:A:77:ALA:O	1:A:104:MET:SD	0.47	2.73	5	2
1:A:151:SER:O	1:A:154:PRO:CG	0.47	2.63	11	8
1:A:14:VAL:CG1	1:A:121:THR:CG2	0.47	2.92	4	1
1:A:76:VAL:O	1:A:79:GLY:N	0.47	2.47	4	4
1:A:235:ARG:CD	1:A:238:GLU:OE2	0.47	2.63	10	3
1:A:76:VAL:HG22	1:A:156:LEU:HD21	0.47	1.86	11	1
1:A:144:SER:HB3	1:A:147:GLN:HB2	0.47	1.86	11	1
1:A:100:GLY:N	2:A:300:SAH:C2	0.47	2.78	5	8
1:A:45:VAL:HA	1:A:50:TYR:CD2	0.47	2.44	4	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:196:TRP:CH2	1:A:234:TYR:CZ	0.47	3.03	6	1
1:A:239:THR:HG22	1:A:240:VAL:HG12	0.47	1.87	8	1
1:A:172:THR:CG2	1:A:230:ILE:CG2	0.47	2.88	10	1
1:A:167:CYS:SG	1:A:233:LEU:HG	0.47	2.50	14	1
1:A:34:TYR:O	1:A:38:ALA:N	0.47	2.47	19	1
1:A:72:LEU:CD1	1:A:72:LEU:C	0.47	2.87	12	19
1:A:78:CYS:HB2	1:A:139:ILE:CG1	0.47	2.40	9	4
1:A:84:ALA:HB2	1:A:114:TYR:CE2	0.47	2.45	18	3
1:A:160:THR:CB	1:A:236:LYS:HG3	0.47	2.40	2	1
1:A:15:LEU:CB	1:A:122:LEU:HD13	0.47	2.40	3	1
1:A:55:LEU:N	1:A:55:LEU:HD12	0.47	2.24	12	2
1:A:169:THR:HG22	1:A:231:ILE:HA	0.47	1.86	6	2
1:A:11:LEU:HB3	1:A:122:LEU:O	0.47	2.09	19	2
1:A:168:LEU:CD1	1:A:232:TYR:CZ	0.47	2.98	9	2
1:A:172:THR:C	1:A:174:PRO:HD3	0.47	2.35	9	1
1:A:78:CYS:HA	1:A:104:MET:HE1	0.47	1.87	10	1
1:A:17:ARG:NH2	1:A:30:LYS:HB3	0.47	2.25	14	1
1:A:76:VAL:CG2	1:A:139:ILE:HB	0.47	2.39	6	2
1:A:133:THR:CG2	1:A:134:PHE:CE1	0.47	2.97	15	6
1:A:199:LEU:CD1	1:A:235:ARG:HG3	0.47	2.39	3	3
1:A:196:TRP:CD2	1:A:234:TYR:HD1	0.47	2.27	7	2
1:A:15:LEU:HA	1:A:18:VAL:CG1	0.47	2.39	7	1
1:A:52:ALA:CB	1:A:169:THR:CB	0.47	2.93	16	2
1:A:176:ASN:HB2	1:A:179:TYR:CD2	0.47	2.44	18	1
1:A:11:LEU:HD22	1:A:149:PRO:CG	0.47	2.39	19	1
1:A:173:ASN:OD1	1:A:180:LYS:HB2	0.46	2.10	1	1
1:A:14:VAL:HG22	1:A:17:ARG:NH1	0.46	2.25	12	1
1:A:63:ALA:HB1	1:A:199:LEU:CD1	0.46	2.36	19	1
1:A:173:ASN:CG	1:A:180:LYS:HG3	0.46	2.35	3	1
1:A:10:ARG:O	1:A:13:GLN:HB3	0.46	2.09	6	3
1:A:87:LEU:HD13	1:A:92:PHE:HB2	0.46	1.87	6	1
1:A:11:LEU:C	1:A:11:LEU:CD1	0.46	2.89	12	2
1:A:14:VAL:HG21	1:A:121:THR:OG1	0.46	2.10	17	2
1:A:101:SER:N	2:A:300:SAH:O2'	0.46	2.43	8	1
1:A:49:LYS:CG	1:A:205:ASP:OD2	0.46	2.63	14	1
1:A:11:LEU:HD13	1:A:12:PRO:HD3	0.46	1.85	19	1
1:A:24:ILE:HD13	1:A:27:LEU:CD1	0.46	2.39	20	1
1:A:122:LEU:CD2	1:A:126:PRO:O	0.46	2.60	1	3
1:A:164:GLY:C	1:A:165:LEU:HD12	0.46	2.36	7	2
1:A:130:PRO:HD2	1:A:133:THR:HG21	0.46	1.85	2	2
1:A:14:VAL:CB	1:A:121:THR:HG21	0.46	2.40	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:15:LEU:N	1:A:121:THR:OG1	0.46	2.48	4	1
1:A:60:LEU:N	1:A:233:LEU:CD2	0.46	2.79	6	1
1:A:190:LEU:HB2	1:A:196:TRP:HE1	0.46	1.71	7	3
1:A:37:TRP:CE2	1:A:40:GLU:OE2	0.46	2.68	8	1
1:A:11:LEU:CD2	1:A:123:GLY:CA	0.46	2.84	10	1
1:A:137:VAL:HG13	1:A:160:THR:OG1	0.46	2.11	11	1
1:A:240:VAL:HG12	1:A:240:VAL:O	0.46	2.11	13	1
1:A:71:ALA:O	1:A:94:GLN:NE2	0.46	2.48	14	9
1:A:100:GLY:CA	2:A:300:SAH:H2	0.46	2.40	20	4
1:A:172:THR:HB	1:A:230:ILE:HB	0.46	1.86	6	1
1:A:24:ILE:CD1	1:A:27:LEU:HD12	0.46	2.40	20	1
1:A:15:LEU:HD22	1:A:125:GLU:OE2	0.46	2.11	1	1
1:A:87:LEU:HD12	1:A:113:LEU:CD1	0.46	2.41	6	1
1:A:230:ILE:HD13	1:A:232:TYR:OH	0.46	2.10	6	1
1:A:11:LEU:HD23	1:A:147:GLN:CA	0.46	2.36	7	1
1:A:169:THR:C	1:A:170:THR:OG1	0.46	2.58	9	1
1:A:99:ASP:O	1:A:119:LEU:HA	0.46	2.10	17	6
1:A:204:VAL:HG21	1:A:230:ILE:CB	0.46	2.40	4	2
1:A:152:ALA:O	1:A:155:GLU:N	0.46	2.48	9	2
1:A:87:LEU:HD22	1:A:113:LEU:HD12	0.46	1.87	11	2
1:A:173:ASN:O	1:A:177:LEU:CG	0.46	2.64	13	1
1:A:51:ARG:O	1:A:52:ALA:C	0.46	2.59	1	6
1:A:48:LEU:HB2	1:A:50:TYR:CE1	0.46	2.46	7	1
1:A:37:TRP:CE3	1:A:40:GLU:OE1	0.46	2.69	9	4
1:A:96:GLN:CD	1:A:134:PHE:CZ	0.46	2.94	3	4
1:A:171:ARG:C	1:A:174:PRO:HD3	0.46	2.35	3	1
1:A:162:PRO:HA	1:A:236:LYS:HB3	0.46	1.86	11	4
1:A:104:MET:HG3	2:A:300:SAH:C3'	0.46	2.41	18	1
1:A:15:LEU:CA	1:A:18:VAL:HG22	0.46	2.41	1	2
1:A:15:LEU:CA	1:A:18:VAL:HG12	0.46	2.39	10	3
1:A:60:LEU:HA	1:A:233:LEU:HD23	0.46	1.86	10	4
1:A:24:ILE:HA	1:A:27:LEU:CD1	0.46	2.41	7	1
1:A:199:LEU:HG	1:A:235:ARG:HG3	0.46	1.86	7	1
1:A:235:ARG:NE	1:A:238:GLU:HG3	0.46	2.25	9	1
1:A:50:TYR:OH	1:A:170:THR:HA	0.46	2.11	10	2
1:A:136:ALA:HB1	1:A:165:LEU:O	0.46	2.11	2	2
1:A:48:LEU:HB2	1:A:50:TYR:CE2	0.46	2.46	4	1
1:A:202:GLN:CD	1:A:231:ILE:HG21	0.46	2.36	8	2
1:A:88:GLN:CG	1:A:113:LEU:CD1	0.46	2.94	6	1
1:A:77:ALA:C	1:A:79:GLY:H	0.46	2.19	11	1
1:A:191:GLU:OE1	1:A:198:CYS:HB3	0.45	2.12	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:206:HIS:CG	1:A:230:ILE:HD11	0.45	2.46	2	1
1:A:171:ARG:HG2	1:A:228:SER:HB3	0.45	1.87	12	1
1:A:14:VAL:O	1:A:18:VAL:HG22	0.45	2.11	15	1
1:A:58:ASP:OD2	1:A:59:CYS:N	0.45	2.49	18	1
1:A:77:ALA:HA	1:A:99:ASP:OD1	0.45	2.11	5	6
1:A:165:LEU:HD12	1:A:199:LEU:HD11	0.45	1.88	2	1
1:A:41:TYR:CG	2:A:300:SAH:HA	0.45	2.47	3	1
1:A:172:THR:O	1:A:173:ASN:HB3	0.45	2.11	4	1
1:A:69:HIS:O	1:A:94:GLN:NE2	0.45	2.50	6	1
1:A:198:CYS:SG	1:A:234:TYR:CE1	0.45	3.10	6	1
1:A:74:LEU:CD1	1:A:159:VAL:HG11	0.45	2.41	12	2
1:A:153:ILE:HG22	1:A:157:LEU:CD1	0.45	2.40	17	2
1:A:172:THR:CG2	1:A:230:ILE:HD12	0.45	2.38	17	1
1:A:177:LEU:CB	1:A:178:PRO:CD	0.45	2.93	17	3
1:A:172:THR:HB	1:A:230:ILE:CB	0.45	2.40	6	1
1:A:76:VAL:HB	1:A:139:ILE:HG12	0.45	1.88	15	1
1:A:11:LEU:O	1:A:14:VAL:HB	0.45	2.12	20	1
1:A:154:PRO:CA	1:A:157:LEU:HD13	0.45	2.40	13	3
1:A:145:GLU:HG3	1:A:145:GLU:O	0.45	2.11	12	3
1:A:64:PHE:HA	1:A:165:LEU:HD21	0.45	1.88	8	1
1:A:168:LEU:HG	1:A:232:TYR:HB2	0.45	1.88	13	1
1:A:17:ARG:HD3	1:A:27:LEU:HD22	0.45	1.87	8	1
1:A:158:ARG:HA	1:A:236:LYS:HE3	0.45	1.87	10	1
1:A:172:THR:HB	1:A:180:LYS:CE	0.45	2.41	18	1
1:A:55:LEU:HD23	1:A:202:GLN:CG	0.45	2.42	3	1
1:A:75:ASP:O	1:A:97:GLY:CA	0.45	2.62	11	4
1:A:171:ARG:HG2	1:A:228:SER:CB	0.45	2.42	17	1
1:A:199:LEU:CD1	1:A:235:ARG:HG2	0.45	2.42	1	1
1:A:64:PHE:HZ	1:A:71:ALA:CB	0.45	2.25	9	6
1:A:85:VAL:HG22	1:A:111:ARG:CZ	0.45	2.41	4	2
1:A:77:ALA:HA	1:A:99:ASP:OD2	0.45	2.11	6	5
1:A:133:THR:N	1:A:159:VAL:O	0.45	2.48	9	3
1:A:14:VAL:HG13	1:A:17:ARG:NH2	0.45	2.27	13	2
1:A:31:LEU:CD2	1:A:100:GLY:O	0.45	2.65	15	1
1:A:55:LEU:CA	1:A:58:ASP:OD2	0.45	2.65	18	1
1:A:198:CYS:CB	1:A:234:TYR:CZ	0.45	3.00	19	1
1:A:69:HIS:HD2	1:A:93:LEU:HD22	0.45	1.72	3	2
1:A:111:ARG:HG2	1:A:113:LEU:CD2	0.45	2.34	3	1
1:A:87:LEU:HD21	1:A:92:PHE:CG	0.45	2.47	19	3
1:A:74:LEU:CD1	1:A:159:VAL:HG21	0.45	2.41	8	1
1:A:173:ASN:HA	1:A:180:LYS:HE3	0.45	1.89	9	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:157:LEU:N	1:A:157:LEU:HD12	0.45	2.27	19	5
1:A:130:PRO:O	1:A:159:VAL:CB	0.45	2.65	16	3
1:A:57:VAL:HG13	1:A:58:ASP:N	0.45	2.27	4	7
1:A:24:ILE:O	1:A:27:LEU:HB2	0.45	2.11	2	1
1:A:129:ASP:HB2	1:A:159:VAL:HG11	0.45	1.89	2	2
1:A:144:SER:O	1:A:145:GLU:CB	0.45	2.64	17	4
1:A:51:ARG:HB2	1:A:203:PRO:O	0.45	2.12	7	1
1:A:124:GLN:O	1:A:124:GLN:HG2	0.45	2.12	7	2
1:A:11:LEU:HB2	2:A:300:SAH:N6	0.45	2.27	10	1
1:A:202:GLN:CD	1:A:202:GLN:N	0.45	2.75	19	1
1:A:87:LEU:HD11	1:A:92:PHE:HB2	0.45	1.89	6	2
1:A:169:THR:HA	1:A:230:ILE:O	0.45	2.10	6	1
1:A:76:VAL:CG2	1:A:139:ILE:HG12	0.45	2.38	7	1
1:A:125:GLU:HB3	1:A:126:PRO:HD2	0.45	1.88	9	1
1:A:96:GLN:HB2	1:A:134:PHE:CE2	0.45	2.47	10	1
1:A:144:SER:HB2	1:A:147:GLN:HB2	0.45	1.88	18	1
1:A:64:PHE:CZ	1:A:66:GLY:C	0.44	2.95	8	6
1:A:204:VAL:HG21	1:A:230:ILE:HG12	0.44	1.88	2	1
1:A:157:LEU:HB3	1:A:236:LYS:HE2	0.44	1.88	3	1
1:A:72:LEU:HD13	1:A:73:ILE:N	0.44	2.28	12	2
1:A:95:VAL:O	1:A:115:HIS:HB2	0.44	2.12	12	1
1:A:135:ASP:OD2	1:A:161:LYS:HD3	0.44	2.12	12	1
1:A:75:ASP:OD2	1:A:114:TYR:OH	0.44	2.28	14	1
1:A:176:ASN:OD1	1:A:176:ASN:O	0.44	2.35	18	1
1:A:17:ARG:NE	1:A:27:LEU:CD2	0.44	2.81	19	1
1:A:30:LYS:O	1:A:34:TYR:HD2	0.44	1.94	20	3
1:A:35:ASP:OD1	1:A:102:PRO:HD2	0.44	2.12	5	3
1:A:96:GLN:OE1	1:A:134:PHE:CE1	0.44	2.70	6	3
1:A:52:ALA:HA	1:A:231:ILE:CG1	0.44	2.42	4	1
1:A:88:GLN:HG3	1:A:113:LEU:CD2	0.44	2.41	9	2
1:A:49:LYS:HD2	1:A:205:ASP:OD1	0.44	2.12	14	1
1:A:157:LEU:CD2	1:A:196:TRP:HE3	0.44	2.25	16	1
1:A:61:SER:HB3	1:A:90:ARG:NE	0.44	2.26	8	2
1:A:70:ASP:OD1	1:A:70:ASP:O	0.44	2.36	13	7
1:A:235:ARG:HD3	1:A:238:GLU:CD	0.44	2.37	5	1
1:A:73:ILE:O	1:A:96:GLN:N	0.44	2.50	6	2
1:A:123:GLY:CA	1:A:149:PRO:HG2	0.44	2.42	14	1
1:A:85:VAL:N	1:A:113:LEU:CD2	0.44	2.81	16	1
1:A:11:LEU:CD1	1:A:12:PRO:HD2	0.44	2.42	19	1
1:A:15:LEU:CD1	1:A:122:LEU:HD21	0.44	2.42	1	1
1:A:95:VAL:CG1	1:A:114:TYR:CD1	0.44	3.00	1	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:52:ALA:O	1:A:231:ILE:HG13	0.44	2.12	3	1
1:A:100:GLY:HA3	2:A:300:SAH:N3	0.44	2.27	10	1
1:A:188:ASP:OD1	1:A:192:ARG:HG3	0.44	2.12	12	2
1:A:84:ALA:O	1:A:113:LEU:CD1	0.44	2.65	18	1
1:A:88:GLN:HG2	1:A:113:LEU:HD21	0.44	1.89	18	1
1:A:122:LEU:HD21	1:A:125:GLU:HB3	0.44	1.89	19	1
1:A:138:ILE:O	1:A:138:ILE:CG2	0.44	2.64	15	4
1:A:28:ALA:O	1:A:32:ARG:HB2	0.44	2.12	6	1
1:A:77:ALA:HA	1:A:99:ASP:CB	0.44	2.42	7	1
1:A:127:LEU:N	1:A:127:LEU:CD2	0.44	2.80	7	1
1:A:17:ARG:NH1	1:A:18:VAL:HB	0.44	2.28	12	1
1:A:12:PRO:HD3	1:A:124:GLN:NE2	0.44	2.27	16	1
1:A:74:LEU:CD1	1:A:129:ASP:OD1	0.44	2.66	16	1
1:A:171:ARG:CA	1:A:228:SER:HB2	0.44	2.42	17	1
1:A:201:THR:O	1:A:201:THR:CG2	0.44	2.65	18	1
1:A:137:VAL:CG1	1:A:166:VAL:CG1	0.44	2.90	2	1
1:A:121:THR:O	1:A:122:LEU:HD22	0.44	2.13	3	1
1:A:169:THR:CG2	1:A:231:ILE:HG12	0.44	2.43	8	3
1:A:48:LEU:HB3	1:A:205:ASP:OD2	0.44	2.13	7	1
1:A:11:LEU:HB2	2:A:300:SAH:HN61	0.44	1.70	10	1
1:A:155:GLU:OE1	1:A:158:ARG:HD2	0.44	2.13	10	1
1:A:68:PRO:HG2	1:A:92:PHE:CD1	0.44	2.48	18	3
1:A:137:VAL:HG13	1:A:166:VAL:CG1	0.44	2.26	13	1
1:A:74:LEU:O	1:A:138:ILE:N	0.44	2.48	16	4
1:A:206:HIS:ND1	1:A:206:HIS:C	0.44	2.76	7	1
1:A:11:LEU:C	1:A:11:LEU:HD13	0.44	2.38	16	2
1:A:96:GLN:CG	1:A:116:HIS:HB2	0.44	2.42	11	1
1:A:90:ARG:HD2	1:A:90:ARG:N	0.44	2.27	12	1
1:A:86:GLU:OE2	1:A:90:ARG:NH1	0.44	2.51	14	1
1:A:129:ASP:CG	1:A:159:VAL:HG11	0.44	2.37	16	1
1:A:74:LEU:HD12	1:A:134:PHE:CE2	0.44	2.48	17	1
1:A:144:SER:N	1:A:148:VAL:O	0.44	2.51	19	1
1:A:14:VAL:CG1	1:A:121:THR:OG1	0.44	2.65	5	3
1:A:11:LEU:CD1	1:A:12:PRO:CD	0.44	2.95	17	3
1:A:100:GLY:CA	2:A:300:SAH:C2	0.44	2.96	10	1
1:A:142:ALA:O	1:A:143:LEU:HG	0.44	2.13	12	1
2:A:300:SAH:SD	2:A:300:SAH:C	0.44	3.06	13	1
1:A:161:LYS:HG2	1:A:162:PRO:HD2	0.44	1.88	15	1
1:A:88:GLN:HG2	1:A:113:LEU:CD2	0.44	2.42	18	1
1:A:202:GLN:NE2	1:A:233:LEU:HD13	0.44	2.27	19	1
1:A:64:PHE:CE2	1:A:66:GLY:HA3	0.44	2.48	4	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:199:LEU:HG	1:A:200:VAL:HG13	0.44	1.90	15	1
1:A:76:VAL:CG1	1:A:127:LEU:HD21	0.43	2.43	2	1
1:A:231:ILE:HD11	1:A:233:LEU:HD11	0.43	1.90	2	2
1:A:88:GLN:CD	1:A:113:LEU:HD12	0.43	2.38	3	1
1:A:72:LEU:C	1:A:72:LEU:CD1	0.43	2.91	9	1
1:A:104:MET:SD	2:A:300:SAH:H4'	0.43	2.53	10	1
1:A:11:LEU:CG	2:A:300:SAH:N6	0.43	2.80	11	1
1:A:163:GLY:N	1:A:236:LYS:O	0.43	2.50	11	1
1:A:10:ARG:HA	1:A:13:GLN:NE2	0.43	2.28	15	1
1:A:15:LEU:HD13	1:A:125:GLU:OE2	0.43	2.13	1	1
1:A:169:THR:HG22	1:A:231:ILE:CB	0.43	2.43	2	1
1:A:84:ALA:HA	1:A:87:LEU:CD1	0.43	2.34	3	1
1:A:92:PHE:N	1:A:92:PHE:HD1	0.43	2.10	12	6
1:A:157:LEU:O	1:A:236:LYS:HE3	0.43	2.13	5	1
1:A:139:ILE:CD1	1:A:156:LEU:HD13	0.43	2.43	7	1
1:A:143:LEU:O	1:A:145:GLU:N	0.43	2.51	9	1
1:A:190:LEU:HB3	1:A:195:VAL:CG2	0.43	2.43	18	4
1:A:130:PRO:C	1:A:133:THR:HG1	0.43	2.21	14	1
1:A:173:ASN:OD1	1:A:177:LEU:HD23	0.43	2.13	17	1
1:A:180:LYS:CG	1:A:181:GLU:N	0.43	2.81	17	1
1:A:30:LYS:HG2	1:A:34:TYR:HE1	0.43	1.72	1	1
1:A:199:LEU:HD21	1:A:235:ARG:CZ	0.43	2.42	3	1
1:A:60:LEU:O	1:A:64:PHE:HB3	0.43	2.13	4	5
1:A:64:PHE:CE1	1:A:66:GLY:O	0.43	2.71	4	3
1:A:154:PRO:O	1:A:158:ARG:N	0.43	2.48	8	4
1:A:87:LEU:CD2	1:A:92:PHE:CE2	0.43	3.02	7	1
1:A:92:PHE:N	1:A:92:PHE:CD1	0.43	2.86	8	1
1:A:156:LEU:HA	1:A:159:VAL:HG22	0.43	1.89	14	2
1:A:75:ASP:N	1:A:96:GLN:O	0.43	2.44	11	1
1:A:165:LEU:N	1:A:165:LEU:CD2	0.43	2.81	11	2
1:A:51:ARG:HB2	1:A:204:VAL:HG12	0.43	1.90	14	1
1:A:98:VAL:O	1:A:99:ASP:OD1	0.43	2.36	10	6
1:A:195:VAL:O	1:A:237:GLN:CA	0.43	2.66	4	6
1:A:45:VAL:HA	1:A:50:TYR:CD1	0.43	2.48	7	1
1:A:12:PRO:HG3	1:A:124:GLN:OE1	0.43	2.13	9	1
1:A:183:LEU:O	1:A:186:THR:HB	0.43	2.13	9	1
1:A:77:ALA:HB2	2:A:300:SAH:N3	0.43	2.27	19	4
1:A:84:ALA:CB	1:A:113:LEU:HG	0.43	2.43	18	1
1:A:74:LEU:HD23	1:A:74:LEU:C	0.43	2.38	16	7
1:A:70:ASP:O	1:A:70:ASP:OD2	0.43	2.37	15	6
1:A:170:THR:O	1:A:229:GLY:CA	0.43	2.67	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:15:LEU:HD13	1:A:15:LEU:O	0.43	2.13	12	1
1:A:95:VAL:HG12	1:A:114:TYR:CD1	0.43	2.48	15	1
1:A:197:GLU:OE2	1:A:239:THR:O	0.43	2.36	15	1
1:A:114:TYR:N	1:A:114:TYR:CD2	0.43	2.86	2	1
1:A:51:ARG:O	1:A:54:ARG:N	0.43	2.51	12	2
1:A:84:ALA:CA	1:A:87:LEU:HD12	0.43	2.33	3	1
1:A:52:ALA:CB	1:A:53:PRO:HD3	0.43	2.36	4	2
1:A:37:TRP:HB3	1:A:41:TYR:HE1	0.43	1.73	8	1
1:A:69:HIS:CD2	1:A:93:LEU:HD13	0.43	2.47	8	1
1:A:80:THR:OG1	1:A:83:VAL:HG23	0.43	2.13	8	1
2:A:300:SAH:CB	2:A:300:SAH:C4'	0.43	2.94	9	1
1:A:100:GLY:HA3	2:A:300:SAH:C2	0.43	2.44	18	1
1:A:55:LEU:O	1:A:59:CYS:N	0.43	2.41	19	1
1:A:58:ASP:OD1	1:A:58:ASP:C	0.43	2.61	20	1
1:A:198:CYS:CB	1:A:234:TYR:CE1	0.43	3.00	4	3
1:A:162:PRO:HB3	1:A:237:GLN:CB	0.43	2.44	5	1
1:A:173:ASN:ND2	1:A:180:LYS:HB2	0.43	2.28	6	2
1:A:10:ARG:HG2	1:A:146:GLY:CA	0.43	2.42	9	1
1:A:196:TRP:CZ3	1:A:234:TYR:HB2	0.43	2.47	13	1
1:A:30:LYS:O	1:A:34:TYR:HD1	0.43	1.95	15	1
1:A:61:SER:O	1:A:64:PHE:O	0.43	2.36	16	1
1:A:74:LEU:C	1:A:75:ASP:OD2	0.43	2.62	16	1
1:A:79:GLY:O	1:A:80:THR:C	0.43	2.61	18	1
1:A:87:LEU:CD2	1:A:92:PHE:CG	0.43	3.02	19	1
1:A:37:TRP:O	1:A:41:TYR:N	0.43	2.52	4	1
1:A:100:GLY:N	2:A:300:SAH:O2'	0.43	2.49	4	1
1:A:15:LEU:HD22	1:A:122:LEU:CD2	0.43	2.44	9	1
1:A:152:ALA:C	1:A:154:PRO:HD2	0.43	2.39	11	1
1:A:173:ASN:O	1:A:177:LEU:CA	0.43	2.66	13	1
1:A:239:THR:O	1:A:240:VAL:C	0.43	2.61	14	1
1:A:36:ASP:OD2	1:A:37:TRP:CD1	0.43	2.72	15	1
1:A:18:VAL:HG13	1:A:27:LEU:HD21	0.43	1.90	2	1
1:A:45:VAL:O	1:A:50:TYR:HD2	0.43	1.96	3	2
1:A:127:LEU:HG	1:A:156:LEU:CG	0.43	2.41	7	1
2:A:300:SAH:HB2	2:A:300:SAH:C4'	0.43	2.38	9	1
1:A:64:PHE:HE2	1:A:66:GLY:O	0.43	1.97	16	1
1:A:157:LEU:CD2	1:A:196:TRP:CZ3	0.43	3.02	18	1
1:A:45:VAL:O	1:A:50:TYR:HB2	0.43	2.14	19	2
1:A:15:LEU:HA	1:A:18:VAL:CG2	0.43	2.43	1	2
1:A:202:GLN:HB2	1:A:231:ILE:HG21	0.43	1.88	2	2
1:A:78:CYS:SG	1:A:141:GLY:O	0.43	2.76	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:101:SER:HB3	1:A:104:MET:CB	0.43	2.44	5	1
1:A:10:ARG:HD3	1:A:34:TYR:CZ	0.43	2.49	6	1
1:A:142:ALA:O	1:A:148:VAL:CG1	0.43	2.67	11	2
1:A:76:VAL:H	1:A:139:ILE:HD13	0.43	1.73	17	1
1:A:35:ASP:OD1	1:A:101:SER:HB3	0.42	2.14	1	1
1:A:60:LEU:HB2	1:A:233:LEU:HD21	0.42	1.91	1	1
1:A:199:LEU:HD21	1:A:235:ARG:HG3	0.42	1.90	1	1
1:A:76:VAL:CG2	1:A:156:LEU:CD1	0.42	2.97	3	1
1:A:129:ASP:O	1:A:159:VAL:CG1	0.42	2.67	9	2
1:A:121:THR:C	2:A:300:SAH:HN62	0.42	2.21	10	1
1:A:176:ASN:O	1:A:179:TYR:HB2	0.42	2.14	18	2
1:A:100:GLY:CA	2:A:300:SAH:N3	0.42	2.82	10	3
1:A:41:TYR:CD2	2:A:300:SAH:O	0.42	2.72	6	1
1:A:199:LEU:HD21	1:A:235:ARG:HD2	0.42	1.91	13	1
1:A:231:ILE:HD13	1:A:232:TYR:H	0.42	1.73	13	1
1:A:79:GLY:O	1:A:80:THR:OG1	0.42	2.36	14	1
1:A:11:LEU:CD2	1:A:149:PRO:HD2	0.42	2.43	15	1
1:A:101:SER:O	1:A:105:LEU:N	0.42	2.46	3	1
1:A:50:TYR:OH	1:A:170:THR:N	0.42	2.53	5	1
1:A:153:ILE:O	1:A:156:LEU:HB2	0.42	2.13	5	2
1:A:162:PRO:HG3	1:A:237:GLN:OE1	0.42	2.14	7	1
1:A:142:ALA:O	1:A:143:LEU:CD2	0.42	2.66	11	1
1:A:34:TYR:HD2	2:A:300:SAH:HB2	0.42	1.74	14	1
1:A:29:CYS:O	1:A:33:PHE:CD2	0.42	2.73	17	2
1:A:131:GLU:CG	1:A:158:ARG:HG2	0.42	2.42	19	2
2:A:300:SAH:C	2:A:300:SAH:SD	0.42	3.07	19	1
1:A:190:LEU:HB2	1:A:196:TRP:NE1	0.42	2.29	16	2
1:A:68:PRO:CB	1:A:92:PHE:CG	0.42	3.03	4	1
1:A:126:PRO:HA	1:A:155:GLU:CD	0.42	2.40	4	2
1:A:14:VAL:O	1:A:18:VAL:N	0.42	2.48	6	3
1:A:127:LEU:CD1	1:A:156:LEU:HG	0.42	2.42	20	3
1:A:11:LEU:HD21	1:A:123:GLY:HA3	0.42	1.84	10	1
1:A:127:LEU:HD11	1:A:156:LEU:HD11	0.42	1.91	10	1
1:A:201:THR:OG1	1:A:232:TYR:HB3	0.42	2.14	15	1
1:A:50:TYR:CE2	1:A:229:GLY:CA	0.42	3.02	20	1
1:A:30:LYS:HG2	1:A:34:TYR:CE1	0.42	2.49	1	1
1:A:41:TYR:CD1	2:A:300:SAH:HB1	0.42	2.50	1	1
1:A:197:GLU:CD	1:A:238:GLU:CB	0.42	2.93	3	1
1:A:17:ARG:HE	1:A:27:LEU:HD22	0.42	1.74	5	1
1:A:111:ARG:HG3	1:A:113:LEU:CD1	0.42	2.41	5	1
1:A:157:LEU:HB3	1:A:236:LYS:CD	0.42	2.45	6	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:143:LEU:CD2	1:A:153:ILE:HD11	0.42	2.44	20	2
1:A:41:TYR:CE2	2:A:300:SAH:N	0.42	2.87	10	1
1:A:171:ARG:CB	1:A:174:PRO:HG3	0.42	2.44	12	1
1:A:172:THR:O	1:A:180:LYS:CG	0.42	2.68	13	1
1:A:58:ASP:OD2	1:A:58:ASP:C	0.42	2.62	14	1
1:A:140:VAL:HG12	1:A:169:THR:HG22	0.42	1.90	14	1
1:A:123:GLY:CA	1:A:149:PRO:CD	0.42	2.97	18	1
1:A:60:LEU:HD13	1:A:138:ILE:HD12	0.42	1.92	20	1
1:A:177:LEU:N	1:A:178:PRO:CD	0.42	2.82	5	4
1:A:235:ARG:CB	1:A:238:GLU:CD	0.42	2.93	1	1
1:A:99:ASP:HB2	1:A:105:LEU:CG	0.42	2.45	2	1
1:A:171:ARG:CB	1:A:228:SER:HB2	0.42	2.45	14	2
1:A:191:GLU:HB3	1:A:240:VAL:HB	0.42	1.90	2	1
1:A:231:ILE:HD11	1:A:233:LEU:CD1	0.42	2.44	5	3
1:A:68:PRO:CG	1:A:92:PHE:CE1	0.42	3.03	12	2
1:A:129:ASP:O	1:A:159:VAL:HG12	0.42	2.15	10	1
1:A:169:THR:O	1:A:170:THR:HB	0.42	2.15	11	1
1:A:137:VAL:CG1	1:A:166:VAL:CG2	0.42	2.92	13	1
1:A:153:ILE:HA	1:A:156:LEU:CD1	0.42	2.43	13	1
1:A:145:GLU:OE2	1:A:171:ARG:NH2	0.42	2.51	14	1
1:A:177:LEU:HB3	1:A:178:PRO:HD3	0.42	1.90	18	1
1:A:88:GLN:OE1	1:A:113:LEU:HD11	0.42	2.15	1	1
1:A:114:TYR:HD1	1:A:117:LEU:CD2	0.42	2.23	2	1
1:A:131:GLU:O	1:A:132:GLY:C	0.42	2.62	14	3
1:A:98:VAL:O	1:A:99:ASP:OD2	0.42	2.37	12	2
1:A:199:LEU:HD21	1:A:235:ARG:HD3	0.42	1.91	8	1
1:A:111:ARG:HG2	1:A:113:LEU:HD23	0.42	1.92	9	1
1:A:143:LEU:HB2	1:A:170:THR:HG1	0.42	1.74	11	1
1:A:58:ASP:HA	1:A:90:ARG:NH2	0.42	2.30	13	1
1:A:83:VAL:O	1:A:87:LEU:N	0.42	2.45	14	1
1:A:10:ARG:O	1:A:13:GLN:N	0.42	2.48	15	2
1:A:197:GLU:CD	1:A:238:GLU:HB3	0.42	2.40	15	1
1:A:74:LEU:CD2	1:A:156:LEU:HD11	0.42	2.38	17	1
1:A:21:SER:O	1:A:22:HIS:HB2	0.42	2.15	18	1
1:A:145:GLU:HG3	1:A:174:PRO:HG3	0.42	1.91	1	1
1:A:105:LEU:O	1:A:109:ARG:CB	0.42	2.68	9	1
1:A:37:TRP:CB	2:A:300:SAH:HA	0.42	2.44	11	1
1:A:173:ASN:CG	1:A:177:LEU:HD22	0.42	2.40	18	1
1:A:74:LEU:CD2	1:A:75:ASP:N	0.42	2.76	7	2
1:A:143:LEU:CG	1:A:170:THR:HB	0.42	2.45	7	2
1:A:11:LEU:HD22	1:A:122:LEU:O	0.42	2.15	8	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:171:ARG:CG	1:A:228:SER:HB2	0.42	2.43	20	2
1:A:143:LEU:CD2	1:A:153:ILE:CD1	0.42	2.98	15	2
1:A:187:LEU:HB3	1:A:234:TYR:HE1	0.42	1.74	17	1
1:A:196:TRP:O	1:A:196:TRP:HD1	0.42	1.98	19	1
1:A:11:LEU:O	1:A:121:THR:HB	0.42	2.14	20	1
1:A:53:PRO:O	1:A:57:VAL:HG12	0.42	2.15	12	2
1:A:75:ASP:OD2	1:A:114:TYR:CE1	0.42	2.73	3	1
1:A:155:GLU:OE1	1:A:158:ARG:NH1	0.42	2.53	5	1
1:A:28:ALA:O	1:A:32:ARG:CB	0.42	2.68	6	1
1:A:50:TYR:HA	1:A:204:VAL:HG12	0.42	1.85	6	1
1:A:204:VAL:HB	1:A:229:GLY:C	0.42	2.40	6	2
1:A:31:LEU:HD13	1:A:100:GLY:O	0.42	2.15	7	1
1:A:45:VAL:O	1:A:50:TYR:HD1	0.42	1.97	7	1
1:A:52:ALA:HA	1:A:231:ILE:HG21	0.42	1.92	7	1
1:A:14:VAL:HG22	1:A:30:LYS:HE3	0.42	1.91	14	1
1:A:78:CYS:HA	1:A:104:MET:HE2	0.42	1.91	17	1
1:A:233:LEU:N	1:A:233:LEU:CD1	0.42	2.83	17	1
1:A:121:THR:O	1:A:122:LEU:CG	0.42	2.67	20	1
1:A:12:PRO:HA	1:A:122:LEU:HD12	0.41	1.92	2	1
1:A:50:TYR:CD1	1:A:53:PRO:HD3	0.41	2.50	2	1
1:A:57:VAL:CG1	1:A:58:ASP:N	0.41	2.83	6	5
1:A:174:PRO:HD2	1:A:180:LYS:HE3	0.41	1.91	3	1
1:A:15:LEU:CD2	1:A:122:LEU:CD1	0.41	2.98	5	2
1:A:145:GLU:OE2	1:A:170:THR:CG2	0.41	2.68	7	1
1:A:123:GLY:O	1:A:149:PRO:HG2	0.41	2.15	10	2
1:A:147:GLN:HB3	2:A:300:SAH:N7	0.41	2.29	8	1
1:A:55:LEU:CB	1:A:202:GLN:HG2	0.41	2.38	9	1
1:A:84:ALA:O	1:A:113:LEU:HD21	0.41	2.14	9	1
1:A:171:ARG:HB2	1:A:174:PRO:HG3	0.41	1.91	12	1
1:A:77:ALA:CB	2:A:300:SAH:C1'	0.41	2.98	20	2
1:A:57:VAL:HG21	1:A:87:LEU:HA	0.41	1.91	3	1
1:A:122:LEU:HD12	1:A:125:GLU:HB2	0.41	1.92	3	1
1:A:150:CYS:HA	1:A:153:ILE:CG1	0.41	2.45	7	2
1:A:37:TRP:CZ3	1:A:40:GLU:OE1	0.41	2.73	12	1
1:A:40:GLU:O	1:A:43:GLN:HG2	0.41	2.14	12	2
1:A:64:PHE:CD2	1:A:64:PHE:C	0.41	2.97	12	1
1:A:127:LEU:HD13	1:A:156:LEU:CD2	0.41	2.45	14	1
1:A:204:VAL:HG23	1:A:206:HIS:HB3	0.41	1.92	18	1
1:A:100:GLY:O	1:A:119:LEU:CD1	0.41	2.68	1	1
1:A:35:ASP:HA	1:A:38:ALA:CB	0.41	2.46	3	1
1:A:168:LEU:CG	1:A:232:TYR:CZ	0.41	3.03	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:74:LEU:HD23	1:A:75:ASP:H	0.41	1.72	19	3
1:A:197:GLU:HG3	1:A:238:GLU:HB2	0.41	1.91	15	1
1:A:88:GLN:OE1	1:A:113:LEU:HD21	0.41	2.15	19	1
1:A:206:HIS:NE2	1:A:230:ILE:HD12	0.41	2.31	1	1
1:A:96:GLN:HB2	1:A:134:PHE:CE1	0.41	2.51	7	2
1:A:81:GLY:HA3	1:A:107:GLN:CD	0.41	2.39	9	1
1:A:127:LEU:CD1	1:A:155:GLU:HB3	0.41	2.46	9	1
1:A:104:MET:SD	2:A:300:SAH:O2'	0.41	2.71	10	1
1:A:101:SER:HB3	2:A:300:SAH:O3'	0.41	2.16	12	1
1:A:17:ARG:NH2	1:A:27:LEU:HG	0.41	2.30	13	1
1:A:173:ASN:O	1:A:177:LEU:HA	0.41	2.15	13	1
1:A:41:TYR:CD1	2:A:300:SAH:O	0.41	2.73	14	1
1:A:104:MET:HB2	2:A:300:SAH:O3'	0.41	2.14	16	1
1:A:11:LEU:HD13	1:A:122:LEU:CA	0.41	2.40	17	1
1:A:15:LEU:HD22	1:A:122:LEU:CD1	0.41	2.45	17	1
1:A:129:ASP:OD1	1:A:129:ASP:N	0.41	2.53	17	1
1:A:187:LEU:HB3	1:A:234:TYR:CE1	0.41	2.50	17	1
1:A:143:LEU:HG	1:A:170:THR:HB	0.41	1.92	20	1
1:A:130:PRO:HB2	1:A:133:THR:OG1	0.41	2.15	4	2
1:A:228:SER:O	1:A:229:GLY:C	0.41	2.63	7	1
1:A:235:ARG:CZ	1:A:238:GLU:OE1	0.41	2.69	7	1
1:A:122:LEU:HA	1:A:122:LEU:HD12	0.41	1.79	9	1
1:A:72:LEU:HD12	1:A:134:PHE:CG	0.41	2.50	10	1
1:A:121:THR:HB	2:A:300:SAH:N6	0.41	2.31	10	1
1:A:15:LEU:HD22	1:A:18:VAL:CG1	0.41	2.45	12	1
1:A:105:LEU:HD11	1:A:119:LEU:HD13	0.41	1.92	3	1
1:A:88:GLN:HG3	1:A:113:LEU:HG	0.41	1.93	5	1
1:A:18:VAL:CG2	1:A:27:LEU:HD13	0.41	2.36	7	1
1:A:48:LEU:O	1:A:205:ASP:CG	0.41	2.64	7	1
1:A:195:VAL:HG23	1:A:196:TRP:N	0.41	2.31	13	1
1:A:74:LEU:O	1:A:75:ASP:OD1	0.41	2.38	14	1
1:A:75:ASP:OD1	1:A:138:ILE:CG2	0.41	2.68	14	1
1:A:11:LEU:HD23	1:A:149:PRO:CD	0.41	2.45	15	1
1:A:109:ARG:CG	1:A:117:LEU:HD12	0.41	2.45	17	1
1:A:85:VAL:HA	1:A:113:LEU:CD2	0.41	2.45	1	1
1:A:180:LYS:O	1:A:183:LEU:HB3	0.41	2.16	9	3
1:A:191:GLU:HG3	1:A:197:GLU:CA	0.41	2.44	3	1
1:A:171:ARG:HB2	1:A:228:SER:CB	0.41	2.46	4	1
1:A:68:PRO:HA	1:A:71:ALA:HB3	0.41	1.93	8	1
1:A:188:ASP:OD1	1:A:192:ARG:HG2	0.41	2.16	8	1
1:A:172:THR:HB	1:A:180:LYS:HE2	0.41	1.93	15	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:58:ASP:OD2	1:A:62:ARG:NE	0.41	2.54	1	1
1:A:137:VAL:HG12	1:A:166:VAL:CG2	0.41	2.38	2	1
1:A:105:LEU:HB3	1:A:109:ARG:HH12	0.41	1.76	3	1
1:A:111:ARG:HA	1:A:111:ARG:HH11	0.41	1.76	6	1
1:A:204:VAL:CG2	1:A:230:ILE:CA	0.41	2.99	6	1
1:A:152:ALA:O	1:A:153:ILE:C	0.41	2.64	11	1
1:A:11:LEU:CD1	1:A:12:PRO:N	0.41	2.80	12	1
1:A:197:GLU:OE2	1:A:239:THR:C	0.41	2.64	15	1
1:A:199:LEU:HD13	1:A:235:ARG:NH2	0.41	2.29	15	1
1:A:87:LEU:HD21	1:A:92:PHE:HD2	0.41	1.71	18	1
1:A:69:HIS:CD2	1:A:93:LEU:CD2	0.41	3.02	8	2
1:A:189:SER:HA	1:A:192:ARG:HG2	0.41	1.92	4	1
1:A:52:ALA:CB	1:A:53:PRO:CD	0.41	2.98	5	2
1:A:60:LEU:CA	1:A:233:LEU:CD2	0.41	2.98	6	1
1:A:191:GLU:OE1	1:A:240:VAL:HA	0.41	2.16	6	1
1:A:204:VAL:CG2	1:A:206:HIS:CD2	0.41	3.04	7	1
1:A:14:VAL:CG2	1:A:121:THR:OG1	0.41	2.69	8	1
1:A:48:LEU:HD23	1:A:205:ASP:OD1	0.41	2.15	9	1
1:A:169:THR:HB	1:A:231:ILE:CB	0.41	2.45	9	1
1:A:14:VAL:CG1	1:A:15:LEU:N	0.41	2.84	12	1
1:A:143:LEU:HA	1:A:148:VAL:HB	0.41	1.92	12	1
1:A:155:GLU:OE2	1:A:158:ARG:HD2	0.41	2.16	12	1
1:A:40:GLU:O	1:A:44:ASP:CG	0.41	2.64	13	2
1:A:121:THR:O	1:A:122:LEU:HD13	0.41	2.16	13	1
1:A:21:SER:OG	1:A:22:HIS:N	0.41	2.53	15	1
1:A:130:PRO:C	1:A:159:VAL:HG22	0.41	2.40	15	1
1:A:133:THR:CG2	1:A:134:PHE:CD1	0.41	3.04	15	1
1:A:69:HIS:CB	1:A:93:LEU:HD12	0.41	2.46	16	1
1:A:123:GLY:CA	1:A:152:ALA:HB2	0.41	2.46	17	1
1:A:72:LEU:HD21	1:A:96:GLN:HE21	0.41	1.76	18	1
1:A:88:GLN:HG2	1:A:113:LEU:CD1	0.41	2.46	18	1
1:A:104:MET:HG3	2:A:300:SAH:H3'	0.41	1.91	18	1
1:A:11:LEU:HB2	1:A:123:GLY:HA3	0.41	1.93	19	1
1:A:14:VAL:HG13	1:A:17:ARG:NE	0.41	2.31	1	1
1:A:98:VAL:HA	1:A:118:SER:O	0.41	2.16	1	1
1:A:141:GLY:N	1:A:169:THR:O	0.41	2.49	10	2
1:A:74:LEU:C	1:A:74:LEU:CD2	0.41	2.94	16	1
1:A:88:GLN:HG2	1:A:113:LEU:HD11	0.41	1.92	18	1
1:A:12:PRO:CA	1:A:122:LEU:HA	0.41	2.43	20	1
1:A:29:CYS:O	1:A:33:PHE:HD1	0.41	1.99	20	1
1:A:50:TYR:HE2	1:A:229:GLY:C	0.41	2.23	20	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:205:ASP:O	1:A:205:ASP:OD2	0.40	2.39	1	2
1:A:31:LEU:O	1:A:35:ASP:CG	0.40	2.64	2	1
1:A:187:LEU:N	1:A:187:LEU:CD1	0.40	2.84	12	2
1:A:30:LYS:HA	1:A:33:PHE:HD1	0.40	1.76	5	1
1:A:191:GLU:HG2	1:A:240:VAL:CA	0.40	2.46	6	1
1:A:204:VAL:HG22	1:A:230:ILE:HG13	0.40	1.93	7	1
1:A:50:TYR:CD1	1:A:53:PRO:CG	0.40	3.04	8	1
1:A:191:GLU:OE2	1:A:240:VAL:C	0.40	2.64	8	1
1:A:239:THR:O	1:A:240:VAL:HG23	0.40	2.16	11	1
1:A:49:LYS:O	1:A:51:ARG:N	0.40	2.54	12	1
1:A:52:ALA:CB	1:A:231:ILE:CG1	0.40	2.99	12	1
1:A:170:THR:OG1	1:A:171:ARG:N	0.40	2.55	12	1
1:A:123:GLY:C	1:A:149:PRO:CG	0.40	2.93	18	1
1:A:14:VAL:HG22	1:A:30:LYS:HE2	0.40	1.93	3	1
1:A:200:VAL:HG23	1:A:233:LEU:HD13	0.40	1.91	6	1
1:A:75:ASP:OD2	1:A:138:ILE:CG2	0.40	2.63	9	1
1:A:74:LEU:HB2	1:A:134:PHE:HD2	0.40	1.76	10	1
1:A:183:LEU:O	1:A:187:LEU:HD22	0.40	2.15	17	2
1:A:149:PRO:O	1:A:151:SER:N	0.40	2.53	11	2
1:A:31:LEU:HD22	1:A:100:GLY:C	0.40	2.42	13	1
1:A:155:GLU:O	1:A:159:VAL:N	0.40	2.52	14	1
1:A:162:PRO:CG	1:A:237:GLN:OE1	0.40	2.70	15	1
1:A:108:ALA:HB1	1:A:114:TYR:CG	0.40	2.50	19	1
1:A:122:LEU:CD2	1:A:125:GLU:HB3	0.40	2.46	19	1
1:A:69:HIS:NE2	1:A:93:LEU:HD22	0.40	2.30	2	1
1:A:165:LEU:HD12	1:A:199:LEU:CD1	0.40	2.47	2	1
1:A:15:LEU:HD23	1:A:122:LEU:CD1	0.40	2.46	4	1
1:A:157:LEU:O	1:A:236:LYS:HD3	0.40	2.16	4	1
1:A:73:ILE:HB	1:A:94:GLN:O	0.40	2.17	6	1
1:A:142:ALA:C	1:A:148:VAL:HB	0.40	2.42	7	1
1:A:111:ARG:CG	1:A:113:LEU:CD2	0.40	2.91	10	1
1:A:52:ALA:HB1	1:A:169:THR:HB	0.40	1.93	11	1
1:A:23:GLY:O	1:A:27:LEU:CD1	0.40	2.69	13	1
1:A:41:TYR:CD1	2:A:300:SAH:C	0.40	3.04	14	1
1:A:52:ALA:HB1	1:A:169:THR:CB	0.40	2.47	14	1
1:A:126:PRO:O	1:A:127:LEU:C	0.40	2.64	14	1
1:A:114:TYR:HB3	1:A:117:LEU:HG	0.40	1.92	16	1
1:A:199:LEU:CG	1:A:235:ARG:HG3	0.40	2.46	8	1
1:A:106:LYS:O	1:A:110:ALA:N	0.40	2.54	10	1
1:A:172:THR:CA	1:A:180:LYS:HG3	0.40	2.46	13	1
1:A:11:LEU:CD1	1:A:122:LEU:HD12	0.40	2.45	15	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:58:ASP:O	1:A:90:ARG:NH2	0.40	2.54	15	1
1:A:120:CYS:HB3	1:A:128:PRO:HG3	0.40	1.94	16	1
1:A:137:VAL:HG21	1:A:156:LEU:HG	0.40	1.93	17	1
1:A:160:THR:HG22	1:A:236:LYS:HG3	0.40	1.92	17	1
1:A:147:GLN:NE2	2:A:300:SAH:O	0.40	2.54	18	1
1:A:138:ILE:HA	1:A:167:CYS:HB3	0.40	1.93	19	1
1:A:12:PRO:HB2	1:A:124:GLN:HG2	0.40	1.93	20	1
1:A:37:TRP:HB3	2:A:300:SAH:O	0.40	2.16	20	1
1:A:176:ASN:O	1:A:177:LEU:C	0.40	2.64	3	1
1:A:10:ARG:NH1	1:A:34:TYR:CD1	0.40	2.90	6	1
1:A:98:VAL:HG11	1:A:128:PRO:HB2	0.40	1.94	6	1
1:A:78:CYS:C	1:A:139:ILE:CD1	0.40	2.95	10	1
1:A:17:ARG:CZ	1:A:27:LEU:HA	0.40	2.47	13	1
1:A:239:THR:HG22	1:A:240:VAL:HG23	0.40	1.94	13	1
1:A:191:GLU:HG3	1:A:197:GLU:HG3	0.40	1.93	14	1
1:A:74:LEU:HD13	1:A:156:LEU:HD22	0.40	1.92	15	1
1:A:83:VAL:O	1:A:87:LEU:HB2	0.40	2.16	15	1
1:A:52:ALA:CB	1:A:169:THR:HB	0.40	2.47	16	1
1:A:157:LEU:HD12	1:A:157:LEU:N	0.40	2.32	16	1
1:A:22:HIS:CG	1:A:22:HIS:O	0.40	2.74	17	1

6.3 Torsion angles

6.3.1 Protein backbone

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	209/240 (87%)	185±2 (89±1%)	17±3 (8±1%)	7±1 (3±1%)	5	35
All	All	4180/4800 (87%)	3701 (89%)	339 (8%)	140 (3%)	5	35

All 23 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	237	GLN	20
1	A	150	CYS	19

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Mol	Chain	Res	Type	Models (Total)
1	A	145	GLU	17
1	A	229	GLY	15
1	A	170	THR	12
1	A	204	VAL	10
1	A	120	CYS	9
1	A	50	TYR	7
1	A	123	GLY	5
1	A	23	GLY	5
1	A	144	SER	4
1	A	173	ASN	3
1	A	10	ARG	2
1	A	21	SER	2
1	A	206	HIS	2
1	A	77	ALA	1
1	A	149	PRO	1
1	A	38	ALA	1
1	A	175	SER	1
1	A	80	THR	1
1	A	228	SER	1
1	A	64	PHE	1
1	A	52	ALA	1

6.3.2 Protein sidechains ⓘ

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	174/194 (90%)	158±3 (91±2%)	16±3 (9±2%)	10	56
All	All	3480/3880 (90%)	3152 (91%)	328 (9%)	10	56

All 57 unique residues with a non-rotameric sidechain are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	72	LEU	20
1	A	187	LEU	19
1	A	231	ILE	19
1	A	129	ASP	18

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Mol	Chain	Res	Type	Models (Total)
1	A	113	LEU	17
1	A	168	LEU	17
1	A	183	LEU	17
1	A	204	VAL	14
1	A	17	ARG	14
1	A	76	VAL	13
1	A	122	LEU	12
1	A	172	THR	11
1	A	201	THR	11
1	A	195	VAL	10
1	A	21	SER	8
1	A	11	LEU	7
1	A	202	GLN	5
1	A	173	ASN	5
1	A	80	THR	5
1	A	159	VAL	5
1	A	161	LYS	5
1	A	50	TYR	5
1	A	121	THR	5
1	A	138	ILE	4
1	A	75	ASP	4
1	A	153	ILE	4
1	A	92	PHE	3
1	A	177	LEU	3
1	A	170	THR	3
1	A	200	VAL	3
1	A	127	LEU	3
1	A	230	ILE	3
1	A	29	CYS	3
1	A	114	TYR	3
1	A	125	GLU	3
1	A	236	LYS	2
1	A	181	GLU	2
1	A	99	ASP	2
1	A	65	ARG	2
1	A	144	SER	2
1	A	27	LEU	1
1	A	37	TRP	1
1	A	206	HIS	1
1	A	167	CYS	1
1	A	118	SER	1
1	A	78	CYS	1

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Mol	Chain	Res	Type	Models (Total)
1	A	116	HIS	1
1	A	240	VAL	1
1	A	169	THR	1
1	A	199	LEU	1
1	A	83	VAL	1
1	A	175	SER	1
1	A	133	THR	1
1	A	180	LYS	1
1	A	228	SER	1
1	A	143	LEU	1
1	A	69	HIS	1

6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.6 Ligand geometry [i](#)

1 ligand is 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
2	SAH	A	300	-	24,28,28	0.66±0.01	0±0 (0±0%)

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
2	SAH	A	300	-	25,40,40	0.80±0.04	1±0 (4±0%)

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
2	SAH	A	300	-	-	0±0,11,31,31	0±0,3,3,3

There are no bond-length outliers.

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

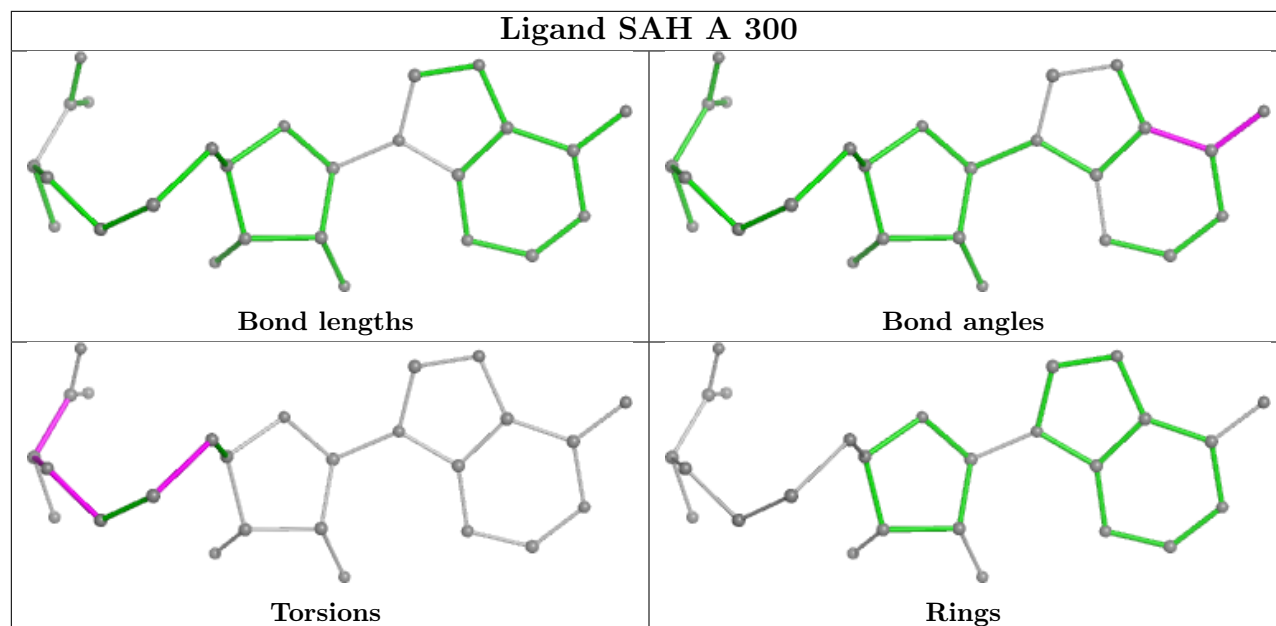
Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
2	A	300	SAH	C5-C6-N6	2.51	124.17	120.35	7	20
2	A	300	SAH	O4'-C1'-C2'	2.12	103.83	106.93	7	1

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



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 70% for the well-defined parts and 68% 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	2169
Number of shifts mapped to atoms	2169
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	4

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction $\pm$ precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	226	-0.28 ± 0.10	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	190	0.34 ± 0.10	None needed (< 0.5 ppm)
$^{13}\text{C}'$	218	-0.03 ± 0.11	None needed (< 0.5 ppm)
^{15}N	207	-0.05 ± 0.30	None needed (< 0.5 ppm)

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 70%, i.e. 1973 atoms were assigned a chemical shift out of a possible 2829. 0 out of 47 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	970/1039 (93%)	388/423 (92%)	396/420 (94%)	186/196 (95%)
Sidechain	971/1623 (60%)	664/1064 (62%)	302/499 (61%)	5/60 (8%)

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	Total	¹ H	¹³ C	¹⁵ N
Aromatic	32/167 (19%)	23/80 (29%)	9/75 (12%)	0/12 (0%)
Overall	1973/2829 (70%)	1075/1567 (69%)	707/994 (71%)	191/268 (71%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 68%, i.e. 2169 atoms were assigned a chemical shift out of a possible 3171. 0 out of 49 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	1086/1194 (91%)	435/488 (89%)	444/480 (92%)	207/226 (92%)
Sidechain	1049/1788 (59%)	716/1171 (61%)	326/554 (59%)	7/63 (11%)
Aromatic	34/189 (18%)	25/91 (27%)	9/85 (11%)	0/13 (0%)
Overall	2169/3171 (68%)	1176/1750 (67%)	779/1119 (70%)	214/302 (71%)

7.1.4 Statistically unusual chemical shifts ⓘ

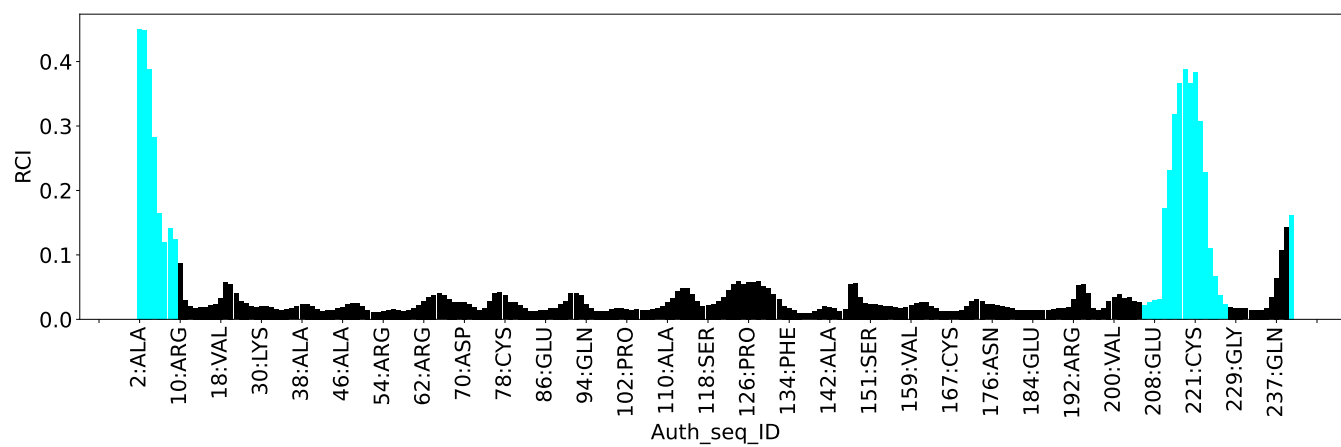
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	133	THR	HG21	0.04	0.08 – 2.19	-5.2
1	A	133	THR	HG22	0.04	0.08 – 2.19	-5.2
1	A	133	THR	HG23	0.04	0.08 – 2.19	-5.2
1	A	68	PRO	HB3	0.24	0.25 – 3.76	-5.0

7.1.5 Random Coil Index (RCI) plots ⓘ

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

Random coil index (RCI) for chain A:



8 NMR restraints analysis

8.1 Conformationally restricting restraints

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

Description	Value
Total distance restraints	2693
Intra-residue ($ i-j =0$)	966
Sequential ($ i-j =1$)	691
Medium range ($ i-j >1$ and $ i-j <5$)	285
Long range ($ i-j \geq 5$)	478
Inter-chain	21
Hydrogen bond restraints	252
Disulfide bond restraints	0
Total dihedral-angle restraints	344
Number of unmapped restraints	0
Number of restraints per residue	12.6
Number of long range restraints per residue ¹	2.4

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

8.2 Residual restraint violations

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

8.2.1 Average number of distance violations per model

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

Bins (Å)	Average number of violations per model	Max (Å)
0.1-0.2 (Small)	67.3	0.2
0.2-0.5 (Medium)	74.0	0.5
>0.5 (Large)	11.2	1.67

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

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

Bins (°)	Average number of violations per model	Max (°)
1.0-10.0 (Small)	32.2	9.99
10.0-20.0 (Medium)	7.2	19.95
>20.0 (Large)	1.7	49.81

9 Distance violation analysis ⓘ

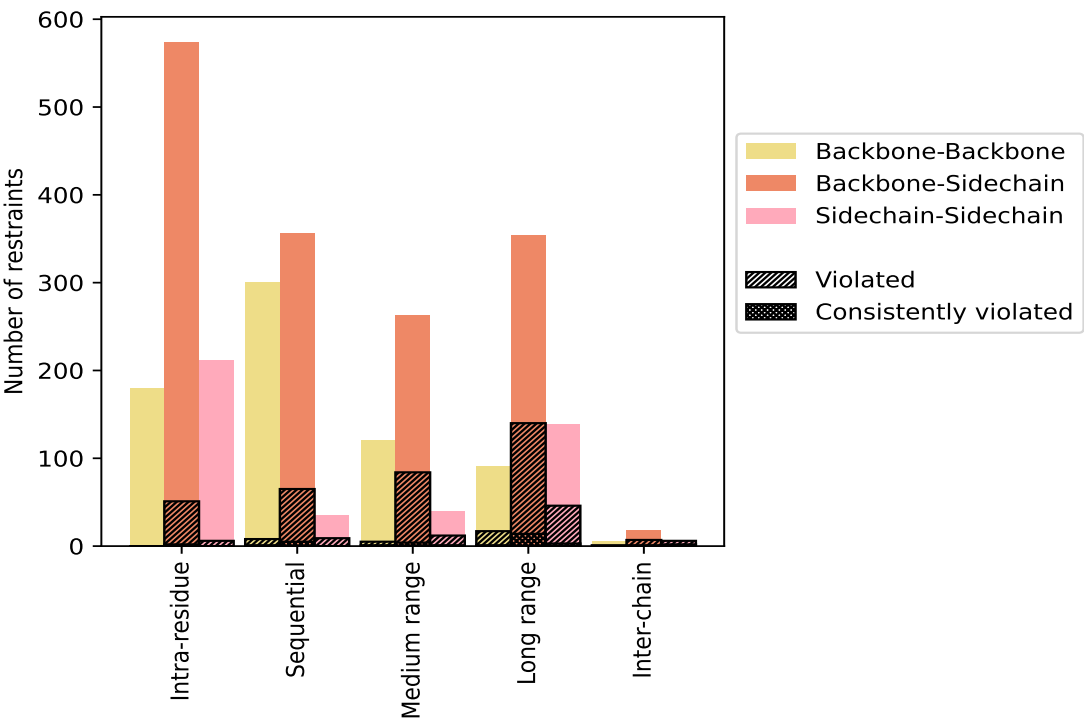
9.1 Summary of distance violations ⓘ

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

Restraints type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue (i-j =0)	966	35.9	57	5.9	2.1	2	0.2	0.1
Backbone-Backbone	180	6.7	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	574	21.3	51	8.9	1.9	2	0.3	0.1
Sidechain-Sidechain	212	7.9	6	2.8	0.2	0	0.0	0.0
Sequential (i-j =1)	691	25.7	82	11.9	3.0	6	0.9	0.2
Backbone-Backbone	300	11.1	8	2.7	0.3	1	0.3	0.0
Backbone-Sidechain	356	13.2	65	18.3	2.4	5	1.4	0.2
Sidechain-Sidechain	35	1.3	9	25.7	0.3	0	0.0	0.0
Medium range (i-j >1 & i-j <5)	285	10.6	51	17.9	1.9	4	1.4	0.1
Backbone-Backbone	120	4.5	5	4.2	0.2	1	0.8	0.0
Backbone-Sidechain	125	4.6	34	27.2	1.3	2	1.6	0.1
Sidechain-Sidechain	40	1.5	12	30.0	0.4	1	2.5	0.0
Long range (i-j ≥5)	478	17.7	151	31.6	5.6	8	1.7	0.3
Backbone-Backbone	91	3.4	17	18.7	0.6	1	1.1	0.0
Backbone-Sidechain	248	9.2	88	35.5	3.3	4	1.6	0.1
Sidechain-Sidechain	139	5.2	46	33.1	1.7	3	2.2	0.1
Inter-chain	21	0.8	10	47.6	0.4	0	0.0	0.0
Backbone-Backbone	5	0.2	1	20.0	0.0	0	0.0	0.0
Backbone-Sidechain	12	0.4	5	41.7	0.2	0	0.0	0.0
Sidechain-Sidechain	4	0.1	4	100.0	0.1	0	0.0	0.0
Hydrogen bond	252	9.4	106	42.1	3.9	15	6.0	0.6
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	2693	100.0	457	17.0	17.0	35	1.3	1.3
Backbone-Backbone	696	25.8	31	4.5	1.2	3	0.4	0.1
Backbone-Sidechain	1565	58.1	347	22.2	12.9	26	1.7	1.0
Sidechain-Sidechain	432	16.0	79	18.3	2.9	6	1.4	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 [i](#)



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

9.2 Distance violation statistics for each model [i](#)

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

Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
1	13	28	38	76	5	160	0.28	1.67	0.21	0.22
2	17	29	27	79	7	159	0.25	1.04	0.15	0.2
3	20	25	30	94	5	174	0.28	1.02	0.17	0.24
4	14	28	30	70	6	148	0.24	0.99	0.16	0.18
5	18	30	37	73	4	162	0.27	1.14	0.18	0.22
6	12	21	37	69	7	146	0.27	1.25	0.17	0.22
7	13	22	27	78	7	147	0.26	1.01	0.16	0.22
8	18	34	27	80	3	162	0.27	1.03	0.17	0.22
9	17	21	38	83	7	166	0.26	1.12	0.16	0.2
10	16	31	31	75	4	157	0.28	1.07	0.16	0.24

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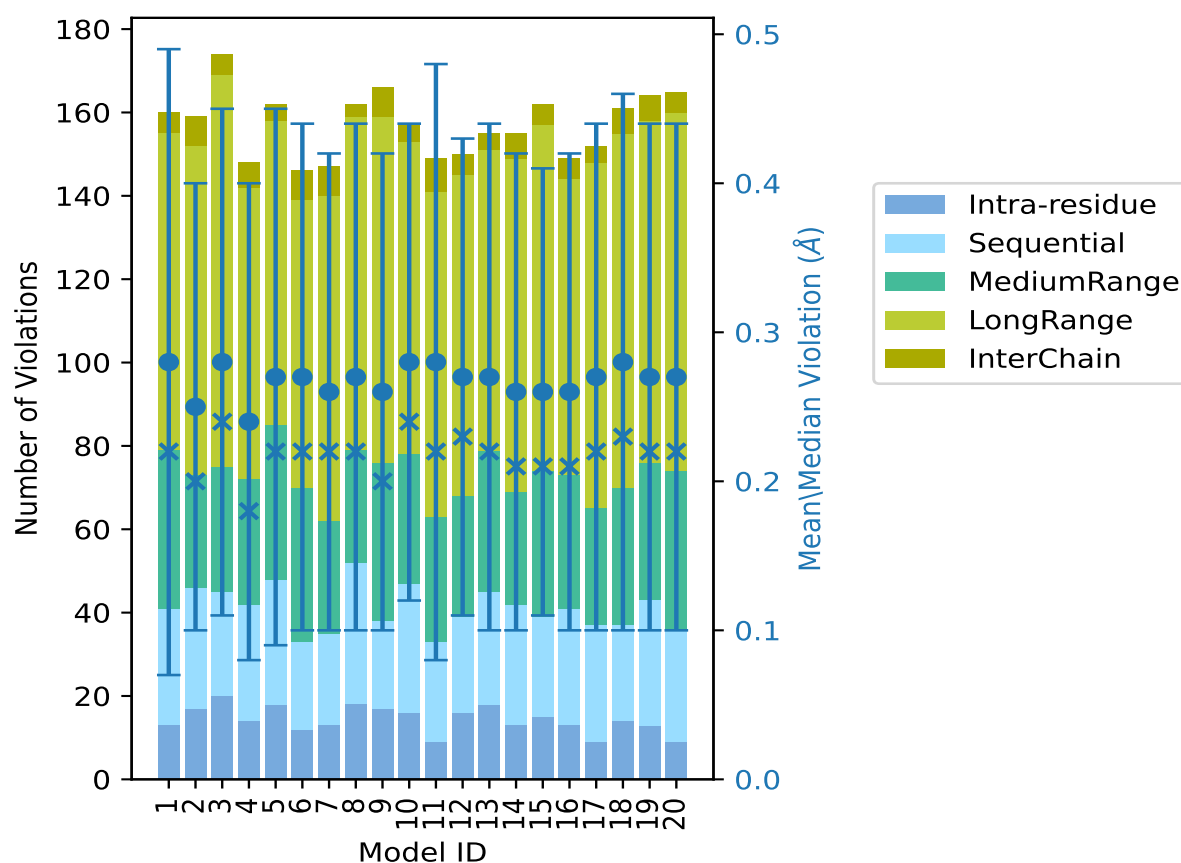
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Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
11	9	24	30	78	8	149	0.28	1.31	0.2	0.22
12	16	23	29	77	5	150	0.27	1.21	0.16	0.23
13	18	27	34	72	4	155	0.27	0.94	0.17	0.22
14	13	29	27	80	6	155	0.26	1.08	0.16	0.21
15	15	24	35	83	5	162	0.26	1.04	0.15	0.21
16	13	28	32	71	5	149	0.26	1.14	0.16	0.21
17	9	28	28	83	4	152	0.27	1.17	0.17	0.22
18	14	23	33	85	6	161	0.28	1.2	0.18	0.23
19	13	30	33	82	6	164	0.27	1.19	0.17	0.22
20	9	27	38	86	5	165	0.27	1.01	0.17	0.22

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

⁵Inter-chain restraints, ⁶Standard deviation

9.2.1 Bar graph : Distance Violation statistics for each model ⓘ



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

9.3 Distance violation statistics for the ensemble

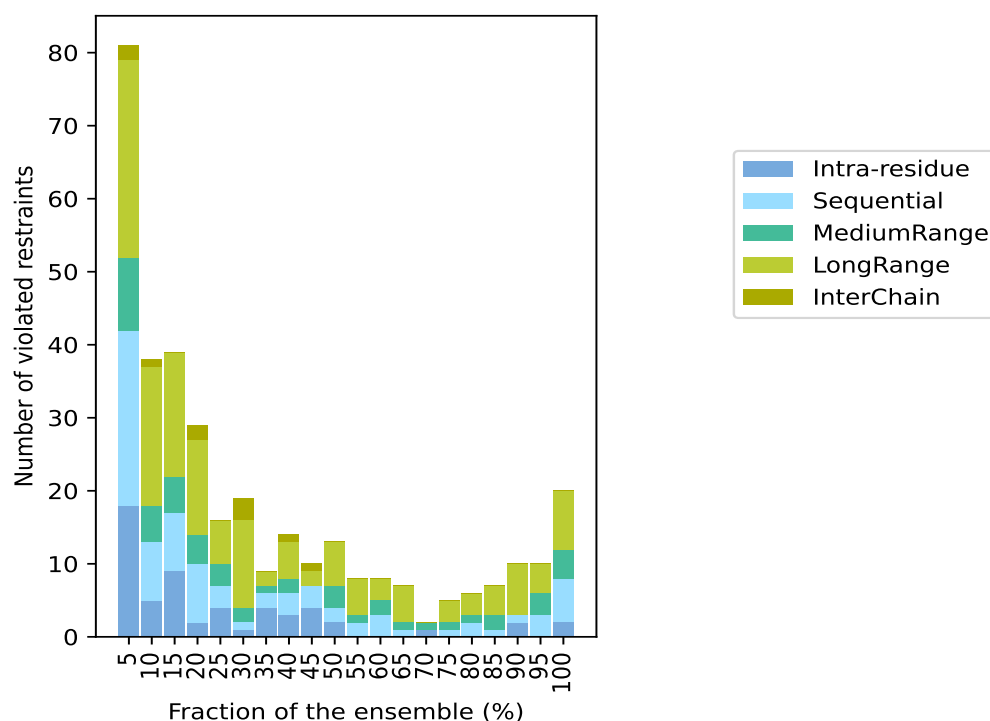
Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 2090(IR:909, SQ:609, MR:234, LR:327, IC:11) restraints are 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	%
18	24	10	27	2	81	1	5.0
5	8	5	19	1	38	2	10.0
9	8	5	17	0	39	3	15.0
2	8	4	13	2	29	4	20.0
4	3	3	6	0	16	5	25.0
1	1	2	12	3	19	6	30.0
4	2	1	2	0	9	7	35.0
3	3	2	5	1	14	8	40.0
4	3	0	2	1	10	9	45.0
2	2	3	6	0	13	10	50.0
0	2	1	5	0	8	11	55.0
0	3	2	3	0	8	12	60.0
0	1	1	5	0	7	13	65.0
1	0	1	0	0	2	14	70.0
0	1	1	3	0	5	15	75.0
0	2	1	3	0	6	16	80.0
0	1	2	4	0	7	17	85.0
2	1	0	7	0	10	18	90.0
0	3	3	4	0	10	19	95.0
2	6	4	8	0	20	20	100.0

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

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

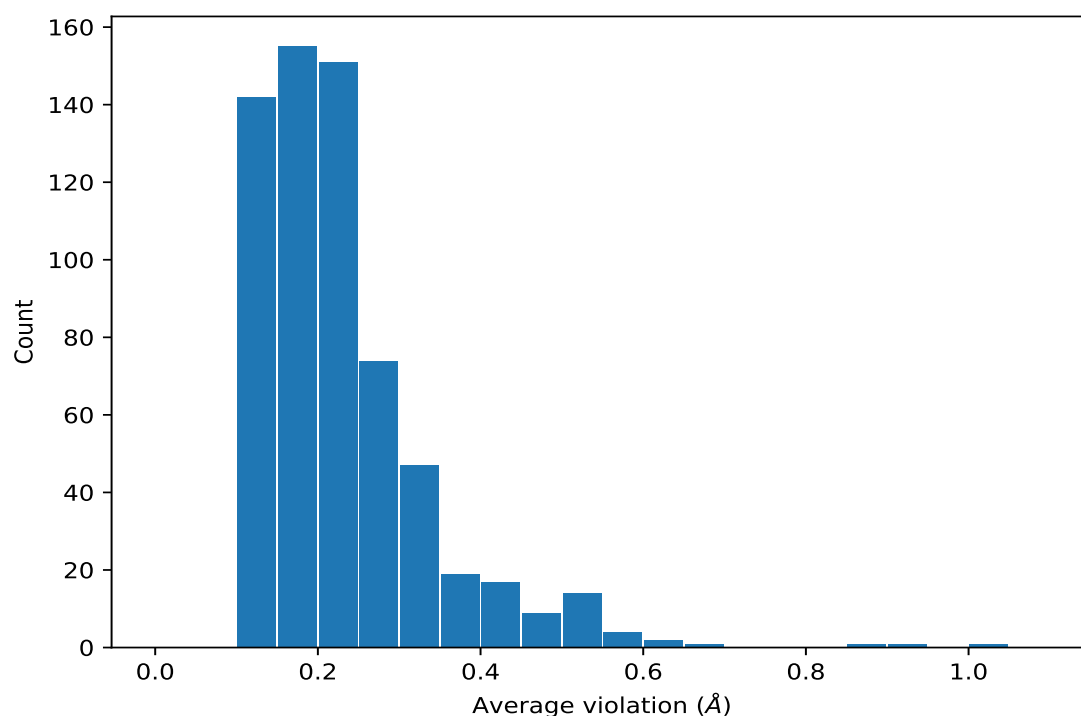
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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

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

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



9.4.2 Table: Most violated distance restraints [i](#)

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

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(4,233)	1:121:A:THR:H	2:300:A:SAH:N1	20	1.04	0.12	1.01
(4,235)	2:300:A:SAH:HN62	1:121:A:THR:O	20	0.9	0.28	0.9
(4,121)	1:123:A:GLY:H	1:125:A:GLU:O	20	0.87	0.16	0.87
(4,236)	2:300:A:SAH:N6	1:121:A:THR:O	20	0.68	0.18	0.68
(1,247)	1:159:A:VAL:HA	1:131:A:GLU:HG3	20	0.61	0.18	0.66
(1,495)	1:29:A:CYS:HB3	1:26:A:ASP:HB2	20	0.59	0.13	0.6
(1,495)	1:29:A:CYS:HB3	1:26:A:ASP:HB3	20	0.59	0.13	0.6
(4,122)	1:123:A:GLY:N	1:125:A:GLU:O	20	0.48	0.18	0.47
(1,433)	1:26:A:ASP:HA	1:28:A:ALA:H	20	0.41	0.06	0.39
(1,162)	1:115:A:HIS:HB2	1:96:A:GLN:HA	20	0.39	0.09	0.38
(1,633)	1:123:A:GLY:H	1:122:A:LEU:H	20	0.39	0.02	0.38
(4,89)	1:94:A:GLN:H	1:68:A:PRO:O	20	0.37	0.08	0.39
(4,119)	1:120:A:CYS:H	1:99:A:ASP:O	20	0.37	0.05	0.37
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD11	20	0.37	0.07	0.38
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD12	20	0.37	0.07	0.38
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD13	20	0.37	0.07	0.38

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1492)	1:238:A:GLU:HB3	1:238:A:GLU:H	20	0.36	0.05	0.37
(1,893)	1:134:A:PHE:HB2	1:135:A:ASP:H	20	0.36	0.05	0.36
(2,87)	1:160:A:THR:HA	1:129:A:ASP:HB2	20	0.36	0.08	0.36
(4,199)	1:196:A:TRP:H	1:190:A:LEU:O	20	0.35	0.04	0.35
(1,1026)	1:106:A:LYS:HE3	1:105:A:LEU:H	20	0.35	0.09	0.32
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG11	20	0.35	0.09	0.34
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG12	20	0.35	0.09	0.34
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG13	20	0.35	0.09	0.34
(1,54)	1:141:A:GLY:H	1:168:A:LEU:HA	20	0.34	0.1	0.36
(1,529)	1:133:A:THR:HG21	1:129:A:ASP:H	20	0.34	0.09	0.34
(1,529)	1:133:A:THR:HG22	1:129:A:ASP:H	20	0.34	0.09	0.34
(1,529)	1:133:A:THR:HG23	1:129:A:ASP:H	20	0.34	0.09	0.34
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD11	20	0.33	0.08	0.34
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD12	20	0.33	0.08	0.34
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD13	20	0.33	0.08	0.34
(2,194)	1:183:A:LEU:HG	1:181:A:GLU:H	20	0.33	0.07	0.36
(1,879)	1:115:A:HIS:HB3	1:116:A:HIS:H	20	0.3	0.09	0.29
(4,111)	1:113:A:LEU:H	1:108:A:ALA:O	20	0.3	0.05	0.29
(4,200)	1:196:A:TRP:N	1:190:A:LEU:O	20	0.3	0.04	0.29
(5,13)	1:240:A:VAL:H	1:191:A:GLU:O	20	0.29	0.11	0.24
(5,13)	1:240:A:VAL:H	1:192:A:ARG:O	20	0.29	0.11	0.24
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG11	20	0.28	0.05	0.29
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG12	20	0.28	0.05	0.29
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG13	20	0.28	0.05	0.29
(1,886)	1:122:A:LEU:HB2	1:123:A:GLY:H	20	0.27	0.05	0.28
(4,55)	1:72:A:LEU:H	1:135:A:ASP:OD1	20	0.27	0.07	0.26
(4,113)	1:114:A:TYR:H	1:108:A:ALA:O	20	0.22	0.05	0.2
(1,1377)	1:96:A:GLN:HB3	1:96:A:GLN:H	20	0.21	0.06	0.19
(4,120)	1:120:A:CYS:N	1:99:A:ASP:O	20	0.21	0.05	0.2
(4,114)	1:114:A:TYR:N	1:108:A:ALA:O	20	0.19	0.05	0.16
(1,839)	1:44:A:ASP:HB3	1:45:A:VAL:H	20	0.17	0.02	0.17
(5,7)	1:206:A:HIS:H	1:229:A:GLY:O	19	0.54	0.22	0.5
(5,7)	1:206:A:HIS:H	1:228:A:SER:O	19	0.54	0.22	0.5
(1,69)	1:210:A:ALA:H	1:226:A:PHE:HA	19	0.42	0.13	0.4
(1,354)	1:238:A:GLU:HG2	1:163:A:GLY:HA2	19	0.38	0.07	0.36
(1,354)	1:238:A:GLU:HG3	1:163:A:GLY:HA2	19	0.38	0.07	0.36
(1,520)	1:113:A:LEU:HB3	1:111:A:ARG:HG3	19	0.36	0.12	0.34
(2,162)	1:153:A:ILE:H	1:149:A:PRO:HB3	19	0.31	0.11	0.32
(1,18)	1:229:A:GLY:H	1:170:A:THR:H	19	0.29	0.09	0.29
(1,1118)	1:238:A:GLU:H	1:237:A:GLN:HG2	19	0.26	0.08	0.26
(1,154)	1:114:A:TYR:HE1	1:97:A:GLY:H	19	0.25	0.08	0.24
(1,154)	1:114:A:TYR:HE2	1:97:A:GLY:H	19	0.25	0.08	0.24

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(4,137)	1:140:A:VAL:H	1:78:A:CYS:O	19	0.25	0.11	0.23
(1,452)	1:28:A:ALA:H	1:26:A:ASP:HB2	19	0.24	0.1	0.2
(1,452)	1:28:A:ALA:H	1:26:A:ASP:HB3	19	0.24	0.1	0.2
(1,1018)	1:94:A:GLN:HG2	1:93:A:LEU:H	19	0.21	0.08	0.2
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG21	19	0.17	0.03	0.16
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG22	19	0.17	0.03	0.16
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG23	19	0.17	0.03	0.16
(4,141)	1:144:A:SER:H	1:148:A:VAL:O	18	0.58	0.14	0.57
(1,305)	1:226:A:PHE:HD1	1:210:A:ALA:H	18	0.46	0.11	0.47
(1,305)	1:226:A:PHE:HD2	1:210:A:ALA:H	18	0.46	0.11	0.47
(1,248)	1:159:A:VAL:HG21	1:132:A:GLY:H	18	0.4	0.12	0.42
(1,248)	1:159:A:VAL:HG22	1:132:A:GLY:H	18	0.4	0.12	0.42
(1,248)	1:159:A:VAL:HG23	1:132:A:GLY:H	18	0.4	0.12	0.42
(1,1696)	1:65:A:ARG:HD2	1:65:A:ARG:H	18	0.38	0.13	0.42
(1,194)	1:122:A:LEU:HB2	1:15:A:LEU:H	18	0.34	0.12	0.32
(1,1082)	1:184:A:GLU:HG2	1:183:A:LEU:HG	18	0.29	0.09	0.28
(1,237)	1:149:A:PRO:HB3	1:123:A:GLY:HA3	18	0.28	0.12	0.27
(1,1478)	1:226:A:PHE:HB3	1:226:A:PHE:H	18	0.23	0.04	0.24
(4,51)	1:69:A:HIS:H	1:67:A:SER:O	18	0.23	0.07	0.24
(1,258)	1:166:A:VAL:HG11	1:157:A:LEU:HA	18	0.23	0.06	0.23
(1,258)	1:166:A:VAL:HG12	1:157:A:LEU:HA	18	0.23	0.06	0.23
(1,258)	1:166:A:VAL:HG13	1:157:A:LEU:HA	18	0.23	0.06	0.23
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD11	18	0.21	0.06	0.23
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD12	18	0.21	0.06	0.23
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD13	18	0.21	0.06	0.23
(4,173)	1:182:A:THR:H	1:178:A:PRO:O	18	0.21	0.05	0.2
(4,165)	1:169:A:THR:H	1:139:A:ILE:O	18	0.2	0.06	0.19
(1,100)	1:92:A:PHE:HE1	1:68:A:PRO:HB2	18	0.19	0.05	0.18
(1,262)	1:167:A:CYS:HB2	1:138:A:ILE:HG12	17	0.64	0.29	0.63
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD21	17	0.29	0.09	0.28
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD22	17	0.29	0.09	0.28
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD23	17	0.29	0.09	0.28
(4,213)	1:229:A:GLY:H	1:170:A:THR:O	17	0.26	0.08	0.24
(1,502)	1:60:A:LEU:HD21	1:57:A:VAL:HA	17	0.22	0.07	0.22
(1,502)	1:60:A:LEU:HD22	1:57:A:VAL:HA	17	0.22	0.07	0.22
(1,502)	1:60:A:LEU:HD23	1:57:A:VAL:HA	17	0.22	0.07	0.22
(1,963)	1:238:A:GLU:HB2	1:239:A:THR:H	17	0.21	0.08	0.19
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG11	17	0.21	0.05	0.21
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG12	17	0.21	0.05	0.21
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG13	17	0.21	0.05	0.21
(4,112)	1:113:A:LEU:N	1:108:A:ALA:O	17	0.18	0.04	0.18
(1,168)	1:117:A:LEU:HB2	1:97:A:GLY:H	17	0.18	0.04	0.17

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(4,174)	1:182:A:THR:N	1:178:A:PRO:O	17	0.17	0.04	0.17
(1,203)	1:134:A:PHE:HA	1:72:A:LEU:HB2	17	0.14	0.03	0.13
(4,217)	1:231:A:ILE:H	1:202:A:GLN:O	16	0.41	0.15	0.44
(1,1030)	1:116:A:HIS:HB2	1:115:A:HIS:HB3	16	0.3	0.1	0.32
(1,403)	1:176:A:ASN:HA	1:180:A:LYS:H	16	0.27	0.08	0.27
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG11	16	0.2	0.05	0.2
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG12	16	0.2	0.05	0.2
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG13	16	0.2	0.05	0.2
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG11	16	0.2	0.05	0.2
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG12	16	0.2	0.05	0.2
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG13	16	0.2	0.05	0.2
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG11	16	0.2	0.05	0.2
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG12	16	0.2	0.05	0.2
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG13	16	0.2	0.05	0.2
(1,345)	1:236:A:LYS:HA	1:196:A:TRP:HB3	16	0.19	0.06	0.2
(1,1028)	1:114:A:TYR:H	1:113:A:LEU:HG	16	0.17	0.04	0.17
(2,45)	1:108:A:ALA:HB1	1:83:A:VAL:H	16	0.15	0.03	0.15
(2,45)	1:108:A:ALA:HB2	1:83:A:VAL:H	16	0.15	0.03	0.15
(2,45)	1:108:A:ALA:HB3	1:83:A:VAL:H	16	0.15	0.03	0.15
(1,864)	1:88:A:GLN:HB2	1:89:A:ALA:H	15	0.27	0.05	0.27
(1,40)	1:100:A:GLY:H	1:121:A:THR:HA	15	0.19	0.04	0.18
(1,106)	1:94:A:GLN:HE22	1:70:A:ASP:HA	15	0.17	0.04	0.17
(1,507)	1:68:A:PRO:HA	1:64:A:PHE:HZ	15	0.17	0.05	0.16
(1,28)	1:237:A:GLN:H	1:197:A:GLU:H	15	0.16	0.04	0.15
(4,218)	1:231:A:ILE:N	1:202:A:GLN:O	14	0.38	0.12	0.41
(4,9)	1:11:A:LEU:H	1:146:A:GLY:O	14	0.24	0.12	0.21
(1,1357)	1:75:A:ASP:HB3	1:75:A:ASP:H	14	0.22	0.09	0.19
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG21	14	0.22	0.13	0.16
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG22	14	0.22	0.13	0.16
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG23	14	0.22	0.13	0.16
(1,545)	1:172:A:THR:H	1:170:A:THR:HG21	13	0.28	0.12	0.3
(1,545)	1:172:A:THR:H	1:170:A:THR:HG22	13	0.28	0.12	0.3
(1,545)	1:172:A:THR:H	1:170:A:THR:HG23	13	0.28	0.12	0.3
(1,329)	1:232:A:TYR:HA	1:201:A:THR:HB	13	0.27	0.13	0.25
(1,200)	1:129:A:ASP:HB3	1:74:A:LEU:HD21	13	0.27	0.07	0.27
(1,200)	1:129:A:ASP:HB3	1:74:A:LEU:HD22	13	0.27	0.07	0.27
(1,200)	1:129:A:ASP:HB3	1:74:A:LEU:HD23	13	0.27	0.07	0.27
(1,129)	1:99:A:ASP:HB3	1:79:A:GLY:H	13	0.22	0.09	0.19
(1,178)	1:118:A:SER:HB2	1:98:A:VAL:HG11	13	0.22	0.05	0.2
(1,178)	1:118:A:SER:HB2	1:98:A:VAL:HG12	13	0.22	0.05	0.2
(1,178)	1:118:A:SER:HB2	1:98:A:VAL:HG13	13	0.22	0.05	0.2
(4,197)	1:195:A:VAL:H	1:190:A:LEU:O	13	0.18	0.05	0.18

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(4,205)	1:200:A:VAL:H	1:233:A:LEU:O	13	0.17	0.07	0.15
(2,46)	1:109:A:ARG:H	1:99:A:ASP:HB2	13	0.17	0.05	0.16
(2,277)	1:57:A:VAL:HG21	1:56:A:ALA:H	13	0.14	0.03	0.14
(2,277)	1:57:A:VAL:HG22	1:56:A:ALA:H	13	0.14	0.03	0.14
(2,277)	1:57:A:VAL:HG23	1:56:A:ALA:H	13	0.14	0.03	0.14
(1,942)	1:205:A:ASP:HB3	1:206:A:HIS:H	12	0.29	0.06	0.3
(4,211)	1:225:A:GLY:H	1:210:A:ALA:O	12	0.29	0.14	0.26
(1,1046)	1:132:A:GLY:H	1:131:A:GLU:HG3	12	0.25	0.09	0.29
(2,66)	1:122:A:LEU:HD21	1:16:A:ALA:H	12	0.22	0.1	0.16
(2,66)	1:122:A:LEU:HD22	1:16:A:ALA:H	12	0.22	0.1	0.16
(2,66)	1:122:A:LEU:HD23	1:16:A:ALA:H	12	0.22	0.1	0.16
(1,130)	1:100:A:GLY:H	1:31:A:LEU:HD11	12	0.2	0.04	0.18
(1,130)	1:100:A:GLY:H	1:31:A:LEU:HD12	12	0.2	0.04	0.18
(1,130)	1:100:A:GLY:H	1:31:A:LEU:HD13	12	0.2	0.04	0.18
(1,352)	1:237:A:GLN:HG2	1:196:A:TRP:H	12	0.19	0.06	0.2
(1,352)	1:237:A:GLN:HG3	1:196:A:TRP:H	12	0.19	0.06	0.2
(2,193)	1:181:A:GLU:H	1:179:A:TYR:HD1	12	0.17	0.04	0.18
(2,193)	1:181:A:GLU:H	1:179:A:TYR:HD2	12	0.17	0.04	0.18
(1,451)	1:14:A:VAL:H	1:17:A:ARG:HB3	12	0.15	0.03	0.14
(1,1015)	1:91:A:GLY:H	1:90:A:ARG:HD3	12	0.15	0.07	0.13
(1,333)	1:233:A:LEU:HD21	1:202:A:GLN:HE21	11	0.3	0.18	0.22
(1,333)	1:233:A:LEU:HD22	1:202:A:GLN:HE21	11	0.3	0.18	0.22
(1,333)	1:233:A:LEU:HD23	1:202:A:GLN:HE21	11	0.3	0.18	0.22
(1,1065)	1:154:A:PRO:HD3	1:153:A:ILE:HG13	11	0.29	0.1	0.27
(1,250)	1:159:A:VAL:HG21	1:133:A:THR:HB	11	0.22	0.08	0.24
(1,250)	1:159:A:VAL:HG22	1:133:A:THR:HB	11	0.22	0.08	0.24
(1,250)	1:159:A:VAL:HG23	1:133:A:THR:HB	11	0.22	0.08	0.24
(1,316)	1:231:A:ILE:HD11	1:52:A:ALA:H	11	0.21	0.1	0.19
(1,316)	1:231:A:ILE:HD12	1:52:A:ALA:H	11	0.21	0.1	0.19
(1,316)	1:231:A:ILE:HD13	1:52:A:ALA:H	11	0.21	0.1	0.19
(1,328)	1:232:A:TYR:HE1	1:187:A:LEU:HD11	11	0.2	0.05	0.2
(1,328)	1:232:A:TYR:HE1	1:187:A:LEU:HD12	11	0.2	0.05	0.2
(1,328)	1:232:A:TYR:HE1	1:187:A:LEU:HD13	11	0.2	0.05	0.2
(1,328)	1:232:A:TYR:HE2	1:187:A:LEU:HD11	11	0.2	0.05	0.2
(1,328)	1:232:A:TYR:HE2	1:187:A:LEU:HD12	11	0.2	0.05	0.2
(1,328)	1:232:A:TYR:HE2	1:187:A:LEU:HD13	11	0.2	0.05	0.2
(4,225)	1:236:A:LYS:H	1:164:A:GLY:O	11	0.19	0.07	0.19
(1,1036)	1:122:A:LEU:HD11	1:121:A:THR:H	11	0.18	0.04	0.19
(1,1036)	1:122:A:LEU:HD12	1:121:A:THR:H	11	0.18	0.04	0.19
(1,1036)	1:122:A:LEU:HD13	1:121:A:THR:H	11	0.18	0.04	0.19
(1,132)	1:100:A:GLY:HA2	1:31:A:LEU:HD11	11	0.16	0.04	0.14
(1,132)	1:100:A:GLY:HA2	1:31:A:LEU:HD12	11	0.16	0.04	0.14

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,132)	1:100:A:GLY:HA2	1:31:A:LEU:HD13	11	0.16	0.04	0.14
(1,132)	1:100:A:GLY:HA3	1:31:A:LEU:HD11	11	0.16	0.04	0.14
(1,132)	1:100:A:GLY:HA3	1:31:A:LEU:HD12	11	0.16	0.04	0.14
(1,132)	1:100:A:GLY:HA3	1:31:A:LEU:HD13	11	0.16	0.04	0.14
(4,117)	1:118:A:SER:H	1:97:A:GLY:O	11	0.14	0.03	0.13
(1,497)	1:45:A:VAL:HG11	1:42:A:ASP:HA	11	0.13	0.03	0.12
(1,497)	1:45:A:VAL:HG12	1:42:A:ASP:HA	11	0.13	0.03	0.12
(1,497)	1:45:A:VAL:HG13	1:42:A:ASP:HA	11	0.13	0.03	0.12
(1,462)	1:84:A:ALA:H	1:87:A:LEU:HB3	10	0.55	0.06	0.52
(1,1094)	1:196:A:TRP:HE1	1:195:A:VAL:HG21	10	0.45	0.07	0.46
(1,1094)	1:196:A:TRP:HE1	1:195:A:VAL:HG22	10	0.45	0.07	0.46
(1,1094)	1:196:A:TRP:HE1	1:195:A:VAL:HG23	10	0.45	0.07	0.46
(1,300)	1:197:A:GLU:HA	1:191:A:GLU:HG2	10	0.42	0.07	0.43
(2,107)	1:231:A:ILE:HG12	1:52:A:ALA:H	10	0.31	0.11	0.29
(1,557)	1:232:A:TYR:H	1:230:A:ILE:HG21	10	0.24	0.08	0.27
(1,557)	1:232:A:TYR:H	1:230:A:ILE:HG22	10	0.24	0.08	0.27
(1,557)	1:232:A:TYR:H	1:230:A:ILE:HG23	10	0.24	0.08	0.27
(1,313)	1:229:A:GLY:H	1:204:A:VAL:HG11	10	0.21	0.07	0.18
(1,313)	1:229:A:GLY:H	1:204:A:VAL:HG12	10	0.21	0.07	0.18
(1,313)	1:229:A:GLY:H	1:204:A:VAL:HG13	10	0.21	0.07	0.18
(4,11)	1:14:A:VAL:H	1:10:A:ARG:O	10	0.2	0.09	0.16
(1,931)	1:191:A:GLU:HB2	1:192:A:ARG:H	10	0.2	0.02	0.2
(1,81)	1:27:A:LEU:HD11	1:17:A:ARG:HD2	10	0.19	0.06	0.2
(1,81)	1:27:A:LEU:HD12	1:17:A:ARG:HD2	10	0.19	0.06	0.2
(1,81)	1:27:A:LEU:HD13	1:17:A:ARG:HD2	10	0.19	0.06	0.2
(1,1645)	1:17:A:ARG:HD2	1:17:A:ARG:HA	10	0.18	0.05	0.18
(1,82)	1:27:A:LEU:HD11	1:21:A:SER:HA	10	0.17	0.05	0.15
(1,82)	1:27:A:LEU:HD12	1:21:A:SER:HA	10	0.17	0.05	0.15
(1,82)	1:27:A:LEU:HD13	1:21:A:SER:HA	10	0.17	0.05	0.15
(1,143)	1:108:A:ALA:HB1	1:79:A:GLY:H	10	0.16	0.04	0.18
(1,143)	1:108:A:ALA:HB2	1:79:A:GLY:H	10	0.16	0.04	0.18
(1,143)	1:108:A:ALA:HB3	1:79:A:GLY:H	10	0.16	0.04	0.18
(4,171)	1:181:A:GLU:H	1:178:A:PRO:O	10	0.16	0.05	0.15
(1,406)	1:10:A:ARG:HA	1:13:A:GLN:H	10	0.16	0.06	0.13
(1,1471)	1:205:A:ASP:HB3	1:205:A:ASP:H	10	0.13	0.02	0.13
(1,2103)	2:300:A:SAH:H2	1:121:A:THR:HG21	9	0.23	0.1	0.19
(1,2103)	2:300:A:SAH:H2	1:121:A:THR:HG22	9	0.23	0.1	0.19
(1,2103)	2:300:A:SAH:H2	1:121:A:THR:HG23	9	0.23	0.1	0.19
(5,3)	1:92:A:PHE:H	1:87:A:LEU:O	9	0.22	0.06	0.2
(1,1932)	1:169:A:THR:HA	1:169:A:THR:HG21	9	0.21	0.01	0.21
(1,1932)	1:169:A:THR:HA	1:169:A:THR:HG22	9	0.21	0.01	0.21
(1,1932)	1:169:A:THR:HA	1:169:A:THR:HG23	9	0.21	0.01	0.21

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(4,138)	1:140:A:VAL:N	1:78:A:CYS:O	9	0.21	0.1	0.19
(2,92)	1:167:A:CYS:HB3	1:139:A:ILE:HA	9	0.2	0.08	0.2
(1,884)	1:118:A:SER:HB3	1:119:A:LEU:H	9	0.2	0.08	0.18
(1,1099)	1:202:A:GLN:H	1:201:A:THR:HG21	9	0.17	0.01	0.17
(1,1099)	1:202:A:GLN:H	1:201:A:THR:HG22	9	0.17	0.01	0.17
(1,1099)	1:202:A:GLN:H	1:201:A:THR:HG23	9	0.17	0.01	0.17
(1,1871)	1:138:A:ILE:HA	1:138:A:ILE:HG12	9	0.16	0.04	0.17
(1,1902)	1:156:A:LEU:H	1:156:A:LEU:HD11	9	0.16	0.05	0.14
(1,1902)	1:156:A:LEU:H	1:156:A:LEU:HD12	9	0.16	0.05	0.14
(1,1902)	1:156:A:LEU:H	1:156:A:LEU:HD13	9	0.16	0.05	0.14
(1,188)	1:120:A:CYS:H	1:98:A:VAL:HB	9	0.15	0.04	0.14
(1,984)	1:54:A:ARG:H	1:53:A:PRO:HD3	9	0.14	0.03	0.12
(1,1441)	1:177:A:LEU:HB3	1:177:A:LEU:H	9	0.12	0.01	0.12
(1,315)	1:230:A:ILE:H	1:172:A:THR:HG21	8	0.34	0.16	0.36
(1,315)	1:230:A:ILE:H	1:172:A:THR:HG22	8	0.34	0.16	0.36
(1,315)	1:230:A:ILE:H	1:172:A:THR:HG23	8	0.34	0.16	0.36
(4,65)	1:79:A:GLY:H	1:77:A:ALA:O	8	0.24	0.06	0.24
(2,192)	1:159:A:VAL:H	1:156:A:LEU:HD11	8	0.22	0.04	0.21
(2,192)	1:159:A:VAL:H	1:156:A:LEU:HD12	8	0.22	0.04	0.21
(2,192)	1:159:A:VAL:H	1:156:A:LEU:HD13	8	0.22	0.04	0.21
(2,93)	1:168:A:LEU:HA	1:143:A:LEU:HG	8	0.2	0.05	0.22
(1,101)	1:92:A:PHE:H	1:87:A:LEU:HD21	8	0.19	0.04	0.18
(1,101)	1:92:A:PHE:H	1:87:A:LEU:HD22	8	0.19	0.04	0.18
(1,101)	1:92:A:PHE:H	1:87:A:LEU:HD23	8	0.19	0.04	0.18
(1,312)	1:229:A:GLY:H	1:172:A:THR:HB	8	0.18	0.07	0.16
(1,1393)	1:116:A:HIS:HB2	1:116:A:HIS:H	8	0.18	0.02	0.18
(1,1765)	1:92:A:PHE:H	1:92:A:PHE:HE1	8	0.18	0.03	0.18
(1,1768)	1:93:A:LEU:HD11	1:93:A:LEU:H	8	0.18	0.03	0.18
(1,1768)	1:93:A:LEU:HD12	1:93:A:LEU:H	8	0.18	0.03	0.18
(1,1768)	1:93:A:LEU:HD13	1:93:A:LEU:H	8	0.18	0.03	0.18
(1,2097)	2:300:A:SAH:H1'	1:100:A:GLY:H	8	0.16	0.02	0.16
(1,1091)	1:193:A:ALA:H	1:192:A:ARG:HD3	8	0.15	0.05	0.14
(1,183)	1:119:A:LEU:H	1:98:A:VAL:HG11	8	0.14	0.02	0.14
(1,183)	1:119:A:LEU:H	1:98:A:VAL:HG12	8	0.14	0.02	0.14
(1,183)	1:119:A:LEU:H	1:98:A:VAL:HG13	8	0.14	0.02	0.14
(1,511)	1:73:A:ILE:HD11	1:71:A:ALA:HB1	8	0.14	0.03	0.14
(1,511)	1:73:A:ILE:HD11	1:71:A:ALA:HB2	8	0.14	0.03	0.14
(1,511)	1:73:A:ILE:HD11	1:71:A:ALA:HB3	8	0.14	0.03	0.14
(1,511)	1:73:A:ILE:HD12	1:71:A:ALA:HB1	8	0.14	0.03	0.14
(1,511)	1:73:A:ILE:HD12	1:71:A:ALA:HB2	8	0.14	0.03	0.14
(1,511)	1:73:A:ILE:HD12	1:71:A:ALA:HB3	8	0.14	0.03	0.14
(1,511)	1:73:A:ILE:HD13	1:71:A:ALA:HB1	8	0.14	0.03	0.14

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,511)	1:73:A:ILE:HD13	1:71:A:ALA:HB2	8	0.14	0.03	0.14
(1,511)	1:73:A:ILE:HD13	1:71:A:ALA:HB3	8	0.14	0.03	0.14
(4,151)	1:160:A:THR:H	1:156:A:LEU:O	8	0.13	0.02	0.13
(1,647)	1:161:A:LYS:H	1:160:A:THR:H	8	0.12	0.01	0.12
(1,1066)	1:158:A:ARG:H	1:157:A:LEU:HD21	8	0.12	0.01	0.12
(1,1066)	1:158:A:ARG:H	1:157:A:LEU:HD22	8	0.12	0.01	0.12
(1,1066)	1:158:A:ARG:H	1:157:A:LEU:HD23	8	0.12	0.01	0.12
(1,2034)	1:226:A:PHE:HA	1:226:A:PHE:HD1	7	0.35	0.12	0.32
(1,1112)	1:232:A:TYR:HB3	1:231:A:ILE:HD11	7	0.35	0.15	0.27
(1,1112)	1:232:A:TYR:HB3	1:231:A:ILE:HD12	7	0.35	0.15	0.27
(1,1112)	1:232:A:TYR:HB3	1:231:A:ILE:HD13	7	0.35	0.15	0.27
(1,2024)	1:204:A:VAL:HG11	1:204:A:VAL:H	7	0.32	0.06	0.34
(1,2024)	1:204:A:VAL:HG12	1:204:A:VAL:H	7	0.32	0.06	0.34
(1,2024)	1:204:A:VAL:HG13	1:204:A:VAL:H	7	0.32	0.06	0.34
(1,494)	1:14:A:VAL:H	1:11:A:LEU:HD11	7	0.26	0.11	0.21
(1,494)	1:14:A:VAL:H	1:11:A:LEU:HD12	7	0.26	0.11	0.21
(1,494)	1:14:A:VAL:H	1:11:A:LEU:HD13	7	0.26	0.11	0.21
(4,87)	1:93:A:LEU:H	1:68:A:PRO:O	7	0.21	0.08	0.2
(1,1064)	1:154:A:PRO:HD2	1:153:A:ILE:HG13	7	0.18	0.06	0.19
(1,231)	1:138:A:ILE:HG21	1:75:A:ASP:HB2	7	0.16	0.04	0.16
(1,231)	1:138:A:ILE:HG22	1:75:A:ASP:HB2	7	0.16	0.04	0.16
(1,231)	1:138:A:ILE:HG23	1:75:A:ASP:HB2	7	0.16	0.04	0.16
(1,209)	1:134:A:PHE:HD1	1:74:A:LEU:H	7	0.14	0.03	0.15
(1,209)	1:134:A:PHE:HD2	1:74:A:LEU:H	7	0.14	0.03	0.15
(1,2002)	1:195:A:VAL:H	1:195:A:VAL:HG11	7	0.14	0.02	0.13
(1,2002)	1:195:A:VAL:H	1:195:A:VAL:HG12	7	0.14	0.02	0.13
(1,2002)	1:195:A:VAL:H	1:195:A:VAL:HG13	7	0.14	0.02	0.13
(4,206)	1:200:A:VAL:N	1:233:A:LEU:O	7	0.13	0.03	0.13
(1,1662)	1:33:A:PHE:H	1:33:A:PHE:HD1	7	0.13	0.02	0.12
(4,31)	1:43:A:GLN:H	1:39:A:PRO:O	7	0.12	0.01	0.11
(1,556)	1:206:A:HIS:H	1:204:A:VAL:HG21	6	0.46	0.08	0.44
(1,556)	1:206:A:HIS:H	1:204:A:VAL:HG22	6	0.46	0.08	0.44
(1,556)	1:206:A:HIS:H	1:204:A:VAL:HG23	6	0.46	0.08	0.44
(2,98)	1:210:A:ALA:HB1	1:177:A:LEU:HA	6	0.41	0.3	0.34
(2,98)	1:210:A:ALA:HB2	1:177:A:LEU:HA	6	0.41	0.3	0.34
(2,98)	1:210:A:ALA:HB3	1:177:A:LEU:HA	6	0.41	0.3	0.34
(1,176)	1:118:A:SER:HB3	1:98:A:VAL:HA	6	0.32	0.05	0.31
(1,150)	1:113:A:LEU:HD21	1:85:A:VAL:H	6	0.32	0.08	0.36
(1,150)	1:113:A:LEU:HD22	1:85:A:VAL:H	6	0.32	0.08	0.36
(1,150)	1:113:A:LEU:HD23	1:85:A:VAL:H	6	0.32	0.08	0.36
(1,546)	1:179:A:TYR:HD1	1:176:A:ASN:H	6	0.31	0.02	0.3
(1,546)	1:179:A:TYR:HD2	1:176:A:ASN:H	6	0.31	0.02	0.3

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,41)	1:97:A:GLY:H	1:75:A:ASP:HB2	6	0.29	0.08	0.29
(1,308)	1:227:A:ILE:HD11	1:173:A:ASN:H	6	0.28	0.08	0.3
(1,308)	1:227:A:ILE:HD12	1:173:A:ASN:H	6	0.28	0.08	0.3
(1,308)	1:227:A:ILE:HD13	1:173:A:ASN:H	6	0.28	0.08	0.3
(1,311)	1:228:A:SER:HA	1:174:A:PRO:HD2	6	0.26	0.09	0.28
(4,7)	1:9:A:GLY:H	1:5:A:GLN:O	6	0.24	0.1	0.2
(4,10)	1:11:A:LEU:N	1:146:A:GLY:O	6	0.22	0.12	0.18
(1,2092)	2:300:A:SAH:HG1	1:38:A:ALA:HB1	6	0.2	0.07	0.19
(1,2092)	2:300:A:SAH:HG1	1:38:A:ALA:HB2	6	0.2	0.07	0.19
(1,2092)	2:300:A:SAH:HG1	1:38:A:ALA:HB3	6	0.2	0.07	0.19
(1,295)	1:196:A:TRP:HE1	1:191:A:GLU:HA	6	0.2	0.04	0.19
(1,340)	1:235:A:ARG:HD2	1:163:A:GLY:HA2	6	0.2	0.05	0.22
(1,340)	1:235:A:ARG:HD3	1:163:A:GLY:HA2	6	0.2	0.05	0.22
(1,244)	1:155:A:GLU:HG2	1:127:A:LEU:H	6	0.19	0.12	0.16
(1,244)	1:155:A:GLU:HG3	1:127:A:LEU:H	6	0.19	0.12	0.16
(4,209)	1:219:A:GLY:H	1:216:A:THR:O	6	0.19	0.05	0.18
(1,2089)	2:300:A:SAH:HG1	1:35:A:ASP:H	6	0.19	0.09	0.15
(1,2089)	2:300:A:SAH:HG2	1:35:A:ASP:H	6	0.19	0.09	0.15
(1,2090)	2:300:A:SAH:HG1	1:35:A:ASP:H	6	0.19	0.09	0.15
(1,2090)	2:300:A:SAH:HG2	1:35:A:ASP:H	6	0.19	0.09	0.15
(1,855)	1:70:A:ASP:HB3	1:69:A:HIS:H	6	0.17	0.03	0.18
(2,72)	1:135:A:ASP:HB3	1:71:A:ALA:H	6	0.16	0.04	0.17
(4,63)	1:77:A:ALA:H	1:98:A:VAL:O	6	0.16	0.05	0.15
(1,327)	1:232:A:TYR:HE1	1:169:A:THR:HA	6	0.16	0.03	0.16
(1,327)	1:232:A:TYR:HE2	1:169:A:THR:HA	6	0.16	0.03	0.16
(2,37)	1:96:A:GLN:HG3	1:74:A:LEU:HD21	6	0.14	0.02	0.15
(2,37)	1:96:A:GLN:HG3	1:74:A:LEU:HD22	6	0.14	0.02	0.15
(2,37)	1:96:A:GLN:HG3	1:74:A:LEU:HD23	6	0.14	0.02	0.15
(1,1404)	1:124:A:GLN:HB3	1:124:A:GLN:H	6	0.11	0.01	0.12
(2,104)	1:228:A:SER:HB2	1:173:A:ASN:HD21	5	0.33	0.12	0.38
(2,104)	1:228:A:SER:HB2	1:173:A:ASN:HD22	5	0.33	0.12	0.38
(2,104)	1:228:A:SER:HB3	1:173:A:ASN:HD21	5	0.33	0.12	0.38
(2,104)	1:228:A:SER:HB3	1:173:A:ASN:HD22	5	0.33	0.12	0.38
(2,158)	1:111:A:ARG:H	1:113:A:LEU:HB3	5	0.26	0.09	0.29
(1,850)	1:62:A:ARG:HB2	1:63:A:ALA:H	5	0.25	0.02	0.25
(1,79)	1:232:A:TYR:HA	1:201:A:THR:HA	5	0.24	0.06	0.25
(1,2035)	1:226:A:PHE:HB3	1:226:A:PHE:HD1	5	0.23	0.0	0.23
(5,9)	1:222:A:ALA:H	1:219:A:GLY:O	5	0.22	0.08	0.19
(5,9)	1:222:A:ALA:H	1:218:A:LEU:O	5	0.22	0.08	0.19
(1,318)	1:231:A:ILE:HD11	1:52:A:ALA:HA	5	0.21	0.08	0.19
(1,318)	1:231:A:ILE:HD12	1:52:A:ALA:HA	5	0.21	0.08	0.19
(1,318)	1:231:A:ILE:HD13	1:52:A:ALA:HA	5	0.21	0.08	0.19

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,337)	1:234:A:TYR:HE1	1:198:A:CYS:H	5	0.2	0.14	0.13
(1,337)	1:234:A:TYR:HE2	1:198:A:CYS:H	5	0.2	0.14	0.13
(1,251)	1:159:A:VAL:HG21	1:134:A:PHE:H	5	0.19	0.03	0.19
(1,251)	1:159:A:VAL:HG22	1:134:A:PHE:H	5	0.19	0.03	0.19
(1,251)	1:159:A:VAL:HG23	1:134:A:PHE:H	5	0.19	0.03	0.19
(1,1021)	1:97:A:GLY:H	1:96:A:GLN:HG2	5	0.19	0.05	0.16
(5,4)	1:92:A:PHE:N	1:87:A:LEU:O	5	0.17	0.05	0.17
(1,522)	1:113:A:LEU:HD21	1:111:A:ARG:HD3	5	0.16	0.01	0.16
(1,522)	1:113:A:LEU:HD22	1:111:A:ARG:HD3	5	0.16	0.01	0.16
(1,522)	1:113:A:LEU:HD23	1:111:A:ARG:HD3	5	0.16	0.01	0.16
(1,938)	1:199:A:LEU:HB2	1:200:A:VAL:H	5	0.15	0.03	0.14
(4,81)	1:89:A:ALA:H	1:85:A:VAL:O	5	0.15	0.03	0.16
(1,1362)	1:83:A:VAL:HB	1:83:A:VAL:H	5	0.14	0.01	0.14
(2,161)	1:144:A:SER:H	1:142:A:ALA:HB1	5	0.14	0.02	0.14
(2,161)	1:144:A:SER:H	1:142:A:ALA:HB2	5	0.14	0.02	0.14
(2,161)	1:144:A:SER:H	1:142:A:ALA:HB3	5	0.14	0.02	0.14
(1,75)	1:237:A:GLN:H	1:196:A:TRP:HA	5	0.14	0.02	0.14
(4,157)	1:165:A:LEU:H	1:135:A:ASP:O	5	0.13	0.03	0.12
(1,1370)	1:88:A:GLN:HB3	1:88:A:GLN:H	5	0.13	0.01	0.13
(4,56)	1:72:A:LEU:N	1:135:A:ASP:OD1	5	0.12	0.02	0.12
(1,1402)	1:121:A:THR:HB	1:121:A:THR:H	5	0.12	0.0	0.12
(2,36)	1:96:A:GLN:HE21	1:74:A:LEU:HD11	4	0.54	0.28	0.57
(2,36)	1:96:A:GLN:HE21	1:74:A:LEU:HD12	4	0.54	0.28	0.57
(2,36)	1:96:A:GLN:HE21	1:74:A:LEU:HD13	4	0.54	0.28	0.57
(1,241)	1:153:A:ILE:HD11	1:148:A:VAL:HG11	4	0.5	0.23	0.57
(1,241)	1:153:A:ILE:HD11	1:148:A:VAL:HG12	4	0.5	0.23	0.57
(1,241)	1:153:A:ILE:HD11	1:148:A:VAL:HG13	4	0.5	0.23	0.57
(1,241)	1:153:A:ILE:HD12	1:148:A:VAL:HG11	4	0.5	0.23	0.57
(1,241)	1:153:A:ILE:HD12	1:148:A:VAL:HG12	4	0.5	0.23	0.57
(1,241)	1:153:A:ILE:HD12	1:148:A:VAL:HG13	4	0.5	0.23	0.57
(1,241)	1:153:A:ILE:HD13	1:148:A:VAL:HG11	4	0.5	0.23	0.57
(1,241)	1:153:A:ILE:HD13	1:148:A:VAL:HG12	4	0.5	0.23	0.57
(1,241)	1:153:A:ILE:HD13	1:148:A:VAL:HG13	4	0.5	0.23	0.57
(1,307)	1:227:A:ILE:HG21	1:173:A:ASN:HA	4	0.42	0.09	0.42
(1,307)	1:227:A:ILE:HG22	1:173:A:ASN:HA	4	0.42	0.09	0.42
(1,307)	1:227:A:ILE:HG23	1:173:A:ASN:HA	4	0.42	0.09	0.42
(1,301)	1:210:A:ALA:HB1	1:177:A:LEU:HB2	4	0.34	0.32	0.18
(1,301)	1:210:A:ALA:HB1	1:177:A:LEU:HB3	4	0.34	0.32	0.18
(1,301)	1:210:A:ALA:HB2	1:177:A:LEU:HB2	4	0.34	0.32	0.18
(1,301)	1:210:A:ALA:HB2	1:177:A:LEU:HB3	4	0.34	0.32	0.18
(1,301)	1:210:A:ALA:HB3	1:177:A:LEU:HB2	4	0.34	0.32	0.18
(1,301)	1:210:A:ALA:HB3	1:177:A:LEU:HB3	4	0.34	0.32	0.18

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(4,215)	1:230:A:ILE:H	1:170:A:THR:O	4	0.33	0.1	0.31
(1,1102)	1:203:A:PRO:HD3	1:202:A:GLN:HE21	4	0.3	0.11	0.29
(1,2040)	1:230:A:ILE:HG21	1:230:A:ILE:H	4	0.24	0.03	0.24
(1,2040)	1:230:A:ILE:HG22	1:230:A:ILE:H	4	0.24	0.03	0.24
(1,2040)	1:230:A:ILE:HG23	1:230:A:ILE:H	4	0.24	0.03	0.24
(1,515)	1:106:A:LYS:HE2	1:102:A:PRO:HB2	4	0.24	0.06	0.23
(1,515)	1:106:A:LYS:HE2	1:102:A:PRO:HB3	4	0.24	0.06	0.23
(1,302)	1:226:A:PHE:HD1	1:177:A:LEU:HD21	4	0.22	0.06	0.23
(1,302)	1:226:A:PHE:HD1	1:177:A:LEU:HD22	4	0.22	0.06	0.23
(1,302)	1:226:A:PHE:HD1	1:177:A:LEU:HD23	4	0.22	0.06	0.23
(1,302)	1:226:A:PHE:HD2	1:177:A:LEU:HD21	4	0.22	0.06	0.23
(1,302)	1:226:A:PHE:HD2	1:177:A:LEU:HD22	4	0.22	0.06	0.23
(1,302)	1:226:A:PHE:HD2	1:177:A:LEU:HD23	4	0.22	0.06	0.23
(1,824)	1:27:A:LEU:HB2	1:28:A:ALA:H	4	0.22	0.04	0.22
(5,11)	1:223:A:ASN:H	1:220:A:THR:O	4	0.21	0.06	0.19
(5,11)	1:223:A:ASN:H	1:219:A:GLY:O	4	0.21	0.06	0.19
(1,2091)	2:300:A:SAH:HB1	1:38:A:ALA:HB1	4	0.2	0.04	0.2
(1,2091)	2:300:A:SAH:HB1	1:38:A:ALA:HB2	4	0.2	0.04	0.2
(1,2091)	2:300:A:SAH:HB1	1:38:A:ALA:HB3	4	0.2	0.04	0.2
(1,2091)	2:300:A:SAH:HB2	1:38:A:ALA:HB1	4	0.2	0.04	0.2
(1,2091)	2:300:A:SAH:HB2	1:38:A:ALA:HB2	4	0.2	0.04	0.2
(1,2091)	2:300:A:SAH:HB2	1:38:A:ALA:HB3	4	0.2	0.04	0.2
(1,2086)	2:300:A:SAH:HA	1:35:A:ASP:HA	4	0.2	0.07	0.22
(1,297)	1:196:A:TRP:HE1	1:191:A:GLU:HB3	4	0.2	0.02	0.2
(1,147)	1:111:A:ARG:HD2	1:85:A:VAL:HG11	4	0.19	0.11	0.14
(1,147)	1:111:A:ARG:HD2	1:85:A:VAL:HG12	4	0.19	0.11	0.14
(1,147)	1:111:A:ARG:HD2	1:85:A:VAL:HG13	4	0.19	0.11	0.14
(1,1097)	1:201:A:THR:H	1:200:A:VAL:HG21	4	0.18	0.05	0.2
(1,1097)	1:201:A:THR:H	1:200:A:VAL:HG22	4	0.18	0.05	0.2
(1,1097)	1:201:A:THR:H	1:200:A:VAL:HG23	4	0.18	0.05	0.2
(1,249)	1:159:A:VAL:HB	1:132:A:GLY:H	4	0.18	0.03	0.17
(1,349)	1:237:A:GLN:HE21	1:195:A:VAL:HA	4	0.18	0.04	0.18
(1,349)	1:237:A:GLN:HE22	1:195:A:VAL:HA	4	0.18	0.04	0.18
(1,66)	1:200:A:VAL:H	1:232:A:TYR:HA	4	0.16	0.06	0.14
(4,143)	1:151:A:SER:H	1:149:A:PRO:O	4	0.16	0.06	0.14
(1,408)	1:12:A:PRO:HA	1:15:A:LEU:H	4	0.16	0.03	0.15
(1,544)	1:172:A:THR:HG21	1:170:A:THR:H	4	0.16	0.03	0.16
(1,544)	1:172:A:THR:HG22	1:170:A:THR:H	4	0.16	0.03	0.16
(1,544)	1:172:A:THR:HG23	1:170:A:THR:H	4	0.16	0.03	0.16
(4,115)	1:116:A:HIS:H	1:95:A:VAL:O	4	0.15	0.03	0.14
(4,39)	1:57:A:VAL:H	1:53:A:PRO:O	4	0.15	0.06	0.13
(1,205)	1:134:A:PHE:HD1	1:73:A:ILE:H	4	0.15	0.02	0.15

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,205)	1:134:A:PHE:HD2	1:73:A:ILE:H	4	0.15	0.02	0.15
(1,1053)	1:139:A:ILE:H	1:138:A:ILE:HG12	4	0.15	0.02	0.14
(1,109)	1:94:A:GLN:HE22	1:72:A:LEU:HB3	4	0.14	0.04	0.13
(1,1074)	1:169:A:THR:HG21	1:168:A:LEU:HA	4	0.14	0.03	0.14
(1,1074)	1:169:A:THR:HG22	1:168:A:LEU:HA	4	0.14	0.03	0.14
(1,1074)	1:169:A:THR:HG23	1:168:A:LEU:HA	4	0.14	0.03	0.14
(2,65)	1:121:A:THR:H	1:98:A:VAL:HB	4	0.14	0.03	0.14
(1,483)	1:57:A:VAL:HA	1:60:A:LEU:HB2	4	0.14	0.02	0.15
(4,146)	1:152:A:ALA:N	1:149:A:PRO:O	4	0.13	0.01	0.12
(1,975)	1:45:A:VAL:HG11	1:44:A:ASP:HB3	4	0.12	0.02	0.12
(1,975)	1:45:A:VAL:HG12	1:44:A:ASP:HB3	4	0.12	0.02	0.12
(1,975)	1:45:A:VAL:HG13	1:44:A:ASP:HB3	4	0.12	0.02	0.12
(1,1055)	1:140:A:VAL:HA	1:139:A:ILE:HG21	4	0.12	0.02	0.12
(1,1055)	1:140:A:VAL:HA	1:139:A:ILE:HG22	4	0.12	0.02	0.12
(1,1055)	1:140:A:VAL:HA	1:139:A:ILE:HG23	4	0.12	0.02	0.12
(4,207)	1:209:A:LEU:H	1:205:A:ASP:O	4	0.12	0.02	0.12
(1,961)	1:236:A:LYS:HB2	1:237:A:GLN:H	4	0.12	0.02	0.11
(1,961)	1:236:A:LYS:HB3	1:237:A:GLN:H	4	0.12	0.02	0.11
(1,1405)	1:131:A:GLU:HB3	1:131:A:GLU:H	4	0.1	0.0	0.1
(1,1693)	1:64:A:PHE:HB3	1:64:A:PHE:HD1	3	0.43	0.02	0.43
(1,20)	1:230:A:ILE:H	1:170:A:THR:H	3	0.34	0.13	0.41
(1,197)	1:122:A:LEU:HD11	1:16:A:ALA:H	3	0.34	0.03	0.36
(1,197)	1:122:A:LEU:HD12	1:16:A:ALA:H	3	0.34	0.03	0.36
(1,197)	1:122:A:LEU:HD13	1:16:A:ALA:H	3	0.34	0.03	0.36
(1,77)	1:226:A:PHE:HA	1:177:A:LEU:HA	3	0.3	0.15	0.35
(4,170)	1:173:A:ASN:N	1:227:A:ILE:O	3	0.3	0.21	0.16
(1,334)	1:233:A:LEU:HD21	1:202:A:GLN:HE22	3	0.28	0.1	0.24
(1,334)	1:233:A:LEU:HD22	1:202:A:GLN:HE22	3	0.28	0.1	0.24
(1,334)	1:233:A:LEU:HD23	1:202:A:GLN:HE22	3	0.28	0.1	0.24
(2,198)	1:206:A:HIS:HB2	1:204:A:VAL:HG11	3	0.27	0.05	0.28
(2,198)	1:206:A:HIS:HB2	1:204:A:VAL:HG12	3	0.27	0.05	0.28
(2,198)	1:206:A:HIS:HB2	1:204:A:VAL:HG13	3	0.27	0.05	0.28
(5,14)	1:240:A:VAL:N	1:192:A:ARG:O	3	0.26	0.09	0.24
(5,14)	1:240:A:VAL:N	1:191:A:GLU:O	3	0.26	0.09	0.24
(1,960)	1:235:A:ARG:HB3	1:236:A:LYS:H	3	0.24	0.01	0.24
(1,94)	1:90:A:ARG:H	1:57:A:VAL:HG21	3	0.24	0.06	0.25
(1,94)	1:90:A:ARG:H	1:57:A:VAL:HG22	3	0.24	0.06	0.25
(1,94)	1:90:A:ARG:H	1:57:A:VAL:HG23	3	0.24	0.06	0.25
(1,530)	1:133:A:THR:HG21	1:129:A:ASP:HB3	3	0.22	0.14	0.14
(1,530)	1:133:A:THR:HG22	1:129:A:ASP:HB3	3	0.22	0.14	0.14
(1,530)	1:133:A:THR:HG23	1:129:A:ASP:HB3	3	0.22	0.14	0.14
(1,245)	1:155:A:GLU:HB2	1:127:A:LEU:H	3	0.2	0.03	0.18

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,245)	1:155:A:GLU:HB3	1:127:A:LEU:H	3	0.2	0.03	0.18
(1,1962)	1:184:A:GLU:HA	1:184:A:GLU:HG3	3	0.2	0.0	0.2
(4,167)	1:170:A:THR:H	1:230:A:ILE:O	3	0.2	0.02	0.18
(1,1994)	1:192:A:ARG:HB2	1:192:A:ARG:HD3	3	0.19	0.01	0.19
(1,2013)	1:200:A:VAL:H	1:200:A:VAL:HG21	3	0.19	0.05	0.21
(1,2013)	1:200:A:VAL:H	1:200:A:VAL:HG22	3	0.19	0.05	0.21
(1,2013)	1:200:A:VAL:H	1:200:A:VAL:HG23	3	0.19	0.05	0.21
(1,304)	1:226:A:PHE:HB3	1:177:A:LEU:HD21	3	0.19	0.07	0.19
(1,304)	1:226:A:PHE:HB3	1:177:A:LEU:HD22	3	0.19	0.07	0.19
(1,304)	1:226:A:PHE:HB3	1:177:A:LEU:HD23	3	0.19	0.07	0.19
(1,979)	1:49:A:LYS:H	1:48:A:LEU:HD11	3	0.19	0.04	0.19
(1,979)	1:49:A:LYS:H	1:48:A:LEU:HD12	3	0.19	0.04	0.19
(1,979)	1:49:A:LYS:H	1:48:A:LEU:HD13	3	0.19	0.04	0.19
(1,261)	1:167:A:CYS:HB3	1:138:A:ILE:HG12	3	0.18	0.07	0.18
(1,1917)	1:159:A:VAL:HG11	1:159:A:VAL:H	3	0.18	0.02	0.17
(1,1917)	1:159:A:VAL:HG12	1:159:A:VAL:H	3	0.18	0.02	0.17
(1,1917)	1:159:A:VAL:HG13	1:159:A:VAL:H	3	0.18	0.02	0.17
(1,347)	1:237:A:GLN:HB2	1:164:A:GLY:H	3	0.18	0.05	0.19
(1,347)	1:237:A:GLN:HB3	1:164:A:GLY:H	3	0.18	0.05	0.19
(1,1113)	1:232:A:TYR:H	1:231:A:ILE:HG12	3	0.17	0.05	0.18
(2,106)	1:229:A:GLY:H	1:204:A:VAL:HB	3	0.17	0.02	0.18
(1,455)	1:58:A:ASP:H	1:54:A:ARG:HB2	3	0.16	0.03	0.15
(1,455)	1:58:A:ASP:H	1:54:A:ARG:HB3	3	0.16	0.03	0.15
(1,296)	1:196:A:TRP:HE1	1:191:A:GLU:HB2	3	0.16	0.02	0.16
(1,945)	1:222:A:ALA:HB1	1:223:A:ASN:H	3	0.16	0.04	0.14
(1,945)	1:222:A:ALA:HB2	1:223:A:ASN:H	3	0.16	0.04	0.14
(1,945)	1:222:A:ALA:HB3	1:223:A:ASN:H	3	0.16	0.04	0.14
(1,461)	1:84:A:ALA:H	1:87:A:LEU:HB2	3	0.16	0.02	0.15
(1,72)	1:235:A:ARG:H	1:198:A:CYS:HA	3	0.16	0.04	0.13
(1,195)	1:122:A:LEU:HD21	1:15:A:LEU:H	3	0.16	0.07	0.12
(1,195)	1:122:A:LEU:HD22	1:15:A:LEU:H	3	0.16	0.07	0.12
(1,195)	1:122:A:LEU:HD23	1:15:A:LEU:H	3	0.16	0.07	0.12
(4,19)	1:29:A:CYS:H	1:25:A:THR:O	3	0.15	0.03	0.13
(4,45)	1:61:A:SER:H	1:57:A:VAL:O	3	0.15	0.03	0.14
(1,725)	1:91:A:GLY:HA2	1:92:A:PHE:H	3	0.15	0.05	0.13
(4,41)	1:58:A:ASP:H	1:54:A:ARG:O	3	0.15	0.02	0.15
(2,42)	1:99:A:ASP:HB2	1:79:A:GLY:H	3	0.15	0.04	0.13
(1,189)	1:120:A:CYS:H	1:98:A:VAL:HG11	3	0.14	0.01	0.13
(1,189)	1:120:A:CYS:H	1:98:A:VAL:HG12	3	0.14	0.01	0.13
(1,189)	1:120:A:CYS:H	1:98:A:VAL:HG13	3	0.14	0.01	0.13
(1,947)	1:223:A:ASN:HB2	1:224:A:ASP:H	3	0.14	0.0	0.14
(1,1753)	1:86:A:GLU:H	1:86:A:GLU:HG3	3	0.13	0.01	0.13

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(4,46)	1:61:A:SER:N	1:57:A:VAL:O	3	0.13	0.03	0.11
(4,82)	1:89:A:ALA:N	1:85:A:VAL:O	3	0.13	0.01	0.13
(1,952)	1:228:A:SER:HB3	1:229:A:GLY:H	3	0.12	0.0	0.12
(2,11)	1:30:A:LYS:H	1:17:A:ARG:HD3	3	0.12	0.0	0.12
(2,174)	1:60:A:LEU:HG	1:57:A:VAL:HA	3	0.12	0.0	0.12
(4,27)	1:40:A:GLU:H	1:37:A:TRP:O	3	0.12	0.03	0.11
(4,203)	1:199:A:LEU:H	1:233:A:LEU:O	3	0.12	0.02	0.12
(1,883)	1:117:A:LEU:HB2	1:118:A:SER:H	3	0.12	0.02	0.12
(1,1470)	1:202:A:GLN:HB2	1:202:A:GLN:H	3	0.12	0.02	0.11
(1,1667)	1:40:A:GLU:HA	1:40:A:GLU:HG2	3	0.12	0.0	0.12
(1,1695)	1:64:A:PHE:HB2	1:64:A:PHE:HD1	3	0.12	0.02	0.11
(1,90)	1:73:A:ILE:HD11	1:60:A:LEU:HD11	3	0.11	0.01	0.11
(1,90)	1:73:A:ILE:HD11	1:60:A:LEU:HD12	3	0.11	0.01	0.11
(1,90)	1:73:A:ILE:HD11	1:60:A:LEU:HD13	3	0.11	0.01	0.11
(1,90)	1:73:A:ILE:HD12	1:60:A:LEU:HD11	3	0.11	0.01	0.11
(1,90)	1:73:A:ILE:HD12	1:60:A:LEU:HD12	3	0.11	0.01	0.11
(1,90)	1:73:A:ILE:HD12	1:60:A:LEU:HD13	3	0.11	0.01	0.11
(1,90)	1:73:A:ILE:HD13	1:60:A:LEU:HD11	3	0.11	0.01	0.11
(1,90)	1:73:A:ILE:HD13	1:60:A:LEU:HD12	3	0.11	0.01	0.11
(1,90)	1:73:A:ILE:HD13	1:60:A:LEU:HD13	3	0.11	0.01	0.11
(1,1108)	1:228:A:SER:H	1:227:A:ILE:HG21	2	0.4	0.04	0.4
(1,1108)	1:228:A:SER:H	1:227:A:ILE:HG22	2	0.4	0.04	0.4
(1,1108)	1:228:A:SER:H	1:227:A:ILE:HG23	2	0.4	0.04	0.4
(1,1081)	1:182:A:THR:H	1:181:A:GLU:HG2	2	0.38	0.01	0.38
(1,196)	1:122:A:LEU:HD11	1:15:A:LEU:H	2	0.36	0.21	0.36
(1,196)	1:122:A:LEU:HD12	1:15:A:LEU:H	2	0.36	0.21	0.36
(1,196)	1:122:A:LEU:HD13	1:15:A:LEU:H	2	0.36	0.21	0.36
(1,554)	1:202:A:GLN:HA	1:200:A:VAL:HG21	2	0.3	0.11	0.3
(1,554)	1:202:A:GLN:HA	1:200:A:VAL:HG22	2	0.3	0.11	0.3
(1,554)	1:202:A:GLN:HA	1:200:A:VAL:HG23	2	0.3	0.11	0.3
(1,1646)	1:17:A:ARG:HG3	1:17:A:ARG:H	2	0.28	0.13	0.28
(1,1051)	1:137:A:VAL:HG11	1:136:A:ALA:H	2	0.27	0.06	0.27
(1,1051)	1:137:A:VAL:HG12	1:136:A:ALA:H	2	0.27	0.06	0.27
(1,1051)	1:137:A:VAL:HG13	1:136:A:ALA:H	2	0.27	0.06	0.27
(2,19)	1:91:A:GLY:H	1:57:A:VAL:HG21	2	0.26	0.02	0.26
(2,19)	1:91:A:GLY:H	1:57:A:VAL:HG22	2	0.26	0.02	0.26
(2,19)	1:91:A:GLY:H	1:57:A:VAL:HG23	2	0.26	0.02	0.26
(1,531)	1:133:A:THR:HG21	1:129:A:ASP:HB2	2	0.26	0.05	0.26
(1,531)	1:133:A:THR:HG22	1:129:A:ASP:HB2	2	0.26	0.05	0.26
(1,531)	1:133:A:THR:HG23	1:129:A:ASP:HB2	2	0.26	0.05	0.26
(4,69)	1:81:A:GLY:H	1:107:A:GLN:OE1	2	0.26	0.05	0.26
(1,967)	1:18:A:VAL:HA	1:17:A:ARG:HG3	2	0.25	0.02	0.25

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,518)	1:113:A:LEU:HD21	1:111:A:ARG:H	2	0.24	0.05	0.24
(1,518)	1:113:A:LEU:HD22	1:111:A:ARG:H	2	0.24	0.05	0.24
(1,518)	1:113:A:LEU:HD23	1:111:A:ARG:H	2	0.24	0.05	0.24
(1,124)	1:96:A:GLN:H	1:74:A:LEU:HD21	2	0.24	0.08	0.24
(1,124)	1:96:A:GLN:H	1:74:A:LEU:HD22	2	0.24	0.08	0.24
(1,124)	1:96:A:GLN:H	1:74:A:LEU:HD23	2	0.24	0.08	0.24
(4,25)	1:38:A:ALA:H	1:34:A:TYR:O	2	0.22	0.06	0.22
(1,314)	1:230:A:ILE:HG21	1:170:A:THR:H	2	0.22	0.06	0.22
(1,314)	1:230:A:ILE:HG22	1:170:A:THR:H	2	0.22	0.06	0.22
(1,314)	1:230:A:ILE:HG23	1:170:A:THR:H	2	0.22	0.06	0.22
(4,12)	1:14:A:VAL:N	1:10:A:ARG:O	2	0.22	0.04	0.22
(4,90)	1:94:A:GLN:N	1:68:A:PRO:O	2	0.21	0.03	0.21
(5,15)	1:101:A:SER:H	2:300:A:SAH:O2'	2	0.21	0.09	0.21
(1,477)	1:206:A:HIS:H	1:204:A:VAL:HB	2	0.2	0.02	0.2
(1,552)	1:196:A:TRP:HD1	1:192:A:ARG:H	2	0.2	0.08	0.2
(5,12)	1:223:A:ASN:N	1:219:A:GLY:O	2	0.2	0.08	0.2
(1,835)	1:42:A:ASP:HB2	1:43:A:GLN:H	2	0.2	0.02	0.2
(4,5)	1:8:A:ALA:H	1:4:A:ALA:O	2	0.2	0.02	0.2
(1,13)	1:161:A:LYS:H	1:134:A:PHE:H	2	0.19	0.01	0.19
(1,161)	1:115:A:HIS:HB2	1:96:A:GLN:HG3	2	0.19	0.06	0.19
(1,279)	1:196:A:TRP:HH2	1:187:A:LEU:HD11	2	0.19	0.04	0.19
(1,279)	1:196:A:TRP:HH2	1:187:A:LEU:HD12	2	0.19	0.04	0.19
(1,279)	1:196:A:TRP:HH2	1:187:A:LEU:HD13	2	0.19	0.04	0.19
(4,8)	1:9:A:GLY:N	1:5:A:GLN:O	2	0.19	0.01	0.19
(4,85)	1:91:A:GLY:H	1:87:A:LEU:O	2	0.18	0.01	0.18
(1,1058)	1:149:A:PRO:HD3	1:148:A:VAL:HB	2	0.18	0.04	0.18
(1,2087)	2:300:A:SAH:HA	1:37:A:TRP:HB2	2	0.18	0.03	0.18
(1,2087)	2:300:A:SAH:HA	1:37:A:TRP:HB3	2	0.18	0.03	0.18
(2,103)	1:227:A:ILE:HG21	1:173:A:ASN:HB2	2	0.18	0.03	0.18
(2,103)	1:227:A:ILE:HG22	1:173:A:ASN:HB2	2	0.18	0.03	0.18
(2,103)	1:227:A:ILE:HG23	1:173:A:ASN:HB2	2	0.18	0.03	0.18
(1,978)	1:48:A:LEU:HD11	1:47:A:ALA:H	2	0.16	0.01	0.16
(1,978)	1:48:A:LEU:HD12	1:47:A:ALA:H	2	0.16	0.01	0.16
(1,978)	1:48:A:LEU:HD13	1:47:A:ALA:H	2	0.16	0.01	0.16
(1,234)	1:140:A:VAL:HG21	1:45:A:VAL:HG21	2	0.16	0.05	0.16
(1,234)	1:140:A:VAL:HG21	1:45:A:VAL:HG22	2	0.16	0.05	0.16
(1,234)	1:140:A:VAL:HG21	1:45:A:VAL:HG23	2	0.16	0.05	0.16
(1,234)	1:140:A:VAL:HG22	1:45:A:VAL:HG21	2	0.16	0.05	0.16
(1,234)	1:140:A:VAL:HG22	1:45:A:VAL:HG22	2	0.16	0.05	0.16
(1,234)	1:140:A:VAL:HG22	1:45:A:VAL:HG23	2	0.16	0.05	0.16
(1,234)	1:140:A:VAL:HG23	1:45:A:VAL:HG21	2	0.16	0.05	0.16
(1,234)	1:140:A:VAL:HG23	1:45:A:VAL:HG22	2	0.16	0.05	0.16

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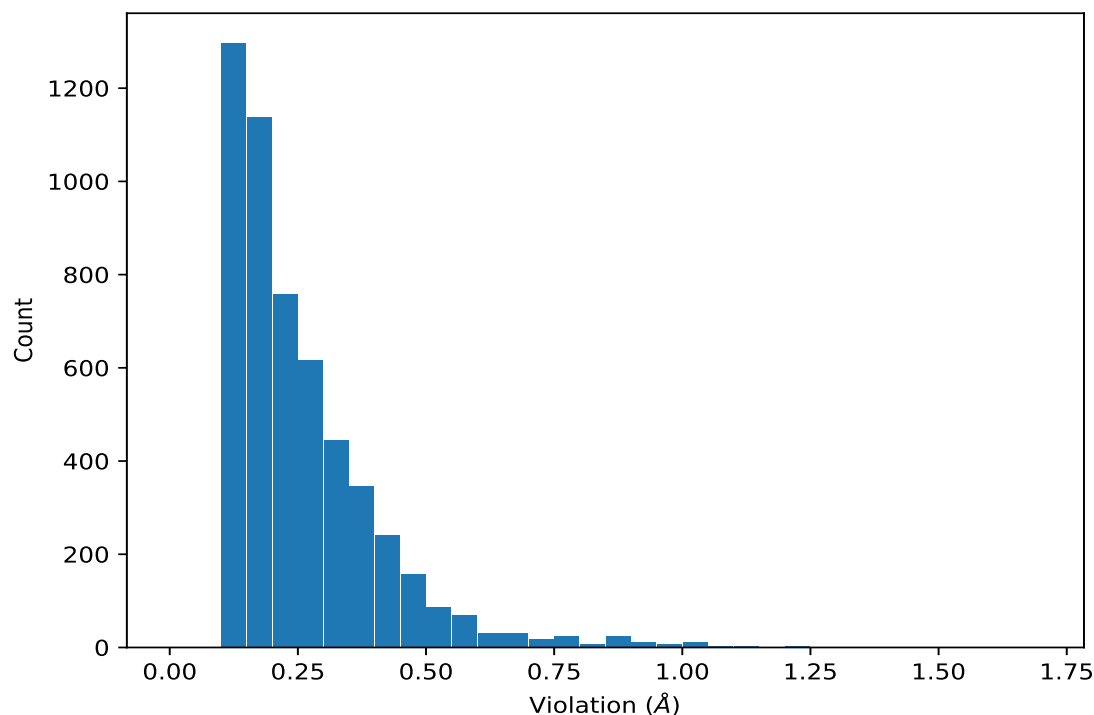
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,234)	1:140:A:VAL:HG23	1:45:A:VAL:HG23	2	0.16	0.05	0.16
(5,10)	1:222:A:ALA:N	1:219:A:GLY:O	2	0.16	0.05	0.16
(1,325)	1:232:A:TYR:H	1:168:A:LEU:HD11	2	0.15	0.04	0.15
(1,325)	1:232:A:TYR:H	1:168:A:LEU:HD12	2	0.15	0.04	0.15
(1,325)	1:232:A:TYR:H	1:168:A:LEU:HD13	2	0.15	0.04	0.15
(1,2020)	1:202:A:GLN:HG2	1:202:A:GLN:HA	2	0.15	0.03	0.15
(1,2020)	1:202:A:GLN:HG3	1:202:A:GLN:HA	2	0.15	0.03	0.15
(1,2027)	1:218:A:LEU:H	1:218:A:LEU:HD21	2	0.15	0.02	0.15
(1,2027)	1:218:A:LEU:H	1:218:A:LEU:HD22	2	0.15	0.02	0.15
(1,2027)	1:218:A:LEU:H	1:218:A:LEU:HD23	2	0.15	0.02	0.15
(4,201)	1:197:A:GLU:H	1:235:A:ARG:O	2	0.14	0.03	0.14
(1,170)	1:117:A:LEU:HD11	1:99:A:ASP:HB2	2	0.14	0.04	0.14
(1,170)	1:117:A:LEU:HD12	1:99:A:ASP:HB2	2	0.14	0.04	0.14
(1,170)	1:117:A:LEU:HD13	1:99:A:ASP:HB2	2	0.14	0.04	0.14
(1,1378)	1:99:A:ASP:HB2	1:99:A:ASP:H	2	0.14	0.01	0.14
(4,219)	1:232:A:TYR:H	1:168:A:LEU:O	2	0.14	0.02	0.14
(1,73)	1:235:A:ARG:H	1:199:A:LEU:HA	2	0.12	0.02	0.12
(1,74)	1:236:A:LYS:H	1:165:A:LEU:HA	2	0.12	0.02	0.12
(1,198)	1:129:A:ASP:H	1:74:A:LEU:HD11	2	0.12	0.01	0.12
(1,198)	1:129:A:ASP:H	1:74:A:LEU:HD12	2	0.12	0.01	0.12
(1,198)	1:129:A:ASP:H	1:74:A:LEU:HD13	2	0.12	0.01	0.12
(1,341)	1:235:A:ARG:HA	1:165:A:LEU:HD11	2	0.12	0.02	0.12
(1,341)	1:235:A:ARG:HA	1:165:A:LEU:HD12	2	0.12	0.02	0.12
(1,341)	1:235:A:ARG:HA	1:165:A:LEU:HD13	2	0.12	0.02	0.12
(2,90)	1:165:A:LEU:HG	1:64:A:PHE:HB3	2	0.12	0.02	0.12
(4,40)	1:57:A:VAL:N	1:53:A:PRO:O	2	0.12	0.01	0.12
(1,260)	1:167:A:CYS:HB3	1:138:A:ILE:HA	2	0.12	0.02	0.12
(1,842)	1:54:A:ARG:HB2	1:55:A:LEU:H	2	0.12	0.02	0.12
(4,129)	1:136:A:ALA:H	1:72:A:LEU:O	2	0.12	0.0	0.12
(4,228)	1:237:A:GLN:N	1:195:A:VAL:O	2	0.11	0.0	0.11
(1,61)	1:170:A:THR:H	1:231:A:ILE:HA	2	0.11	0.0	0.11
(1,155)	1:114:A:TYR:HB2	1:97:A:GLY:H	2	0.11	0.0	0.11
(1,155)	1:114:A:TYR:HB3	1:97:A:GLY:H	2	0.11	0.0	0.11
(1,1433)	1:167:A:CYS:HB3	1:167:A:CYS:H	2	0.11	0.0	0.11

¹Number of violated models, ²Standard deviation

9.5 All violated distance restraints [i](#)

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

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



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

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

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,235)	2:300:A:SAH:HN62	1:121:A:THR:O	1	1.67
(4,233)	1:121:A:THR:H	2:300:A:SAH:N1	11	1.31
(4,121)	1:123:A:GLY:H	1:125:A:GLU:O	11	1.29
(4,235)	2:300:A:SAH:HN62	1:121:A:THR:O	6	1.25
(4,236)	2:300:A:SAH:N6	1:121:A:THR:O	1	1.24
(4,233)	1:121:A:THR:H	2:300:A:SAH:N1	12	1.21
(4,233)	1:121:A:THR:H	2:300:A:SAH:N1	18	1.2
(4,235)	2:300:A:SAH:HN62	1:121:A:THR:O	19	1.19
(4,233)	1:121:A:THR:H	2:300:A:SAH:N1	17	1.17
(4,233)	1:121:A:THR:H	2:300:A:SAH:N1	16	1.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,262)	1:167:A:CYS:HB2	1:138:A:ILE:HG12	5	1.14
(4,233)	1:121:A:THR:H	2:300:A:SAH:N1	9	1.12
(4,233)	1:121:A:THR:H	2:300:A:SAH:N1	1	1.11
(4,235)	2:300:A:SAH:HN62	1:121:A:THR:O	14	1.08
(1,262)	1:167:A:CYS:HB2	1:138:A:ILE:HG12	10	1.07
(4,121)	1:123:A:GLY:H	1:125:A:GLU:O	18	1.06
(4,235)	2:300:A:SAH:HN62	1:121:A:THR:O	2	1.04
(4,233)	1:121:A:THR:H	2:300:A:SAH:N1	15	1.04
(2,98)	1:210:A:ALA:HB1	1:177:A:LEU:HA	18	1.04
(2,98)	1:210:A:ALA:HB2	1:177:A:LEU:HA	18	1.04
(2,98)	1:210:A:ALA:HB3	1:177:A:LEU:HA	18	1.04
(4,233)	1:121:A:THR:H	2:300:A:SAH:N1	8	1.03
(4,121)	1:123:A:GLY:H	1:125:A:GLU:O	1	1.03
(4,233)	1:121:A:THR:H	2:300:A:SAH:N1	3	1.02
(4,235)	2:300:A:SAH:HN62	1:121:A:THR:O	5	1.01
(4,235)	2:300:A:SAH:HN62	1:121:A:THR:O	7	1.01
(1,262)	1:167:A:CYS:HB2	1:138:A:ILE:HG12	20	1.01
(4,233)	1:121:A:THR:H	2:300:A:SAH:N1	19	1.0
(4,121)	1:123:A:GLY:H	1:125:A:GLU:O	4	0.99
(4,121)	1:123:A:GLY:H	1:125:A:GLU:O	9	0.99
(4,235)	2:300:A:SAH:HN62	1:121:A:THR:O	20	0.98
(1,262)	1:167:A:CYS:HB2	1:138:A:ILE:HG12	1	0.97
(4,233)	1:121:A:THR:H	2:300:A:SAH:N1	14	0.96
(4,233)	1:121:A:THR:H	2:300:A:SAH:N1	6	0.95
(4,233)	1:121:A:THR:H	2:300:A:SAH:N1	20	0.95
(4,233)	1:121:A:THR:H	2:300:A:SAH:N1	7	0.94
(4,233)	1:121:A:THR:H	2:300:A:SAH:N1	13	0.94
(4,169)	1:173:A:ASN:H	1:227:A:ILE:O	17	0.94
(4,235)	2:300:A:SAH:HN62	1:121:A:THR:O	13	0.92
(4,233)	1:121:A:THR:H	2:300:A:SAH:N1	2	0.92
(4,233)	1:121:A:THR:H	2:300:A:SAH:N1	5	0.92
(4,233)	1:121:A:THR:H	2:300:A:SAH:N1	10	0.92
(5,7)	1:206:A:HIS:H	1:229:A:GLY:O	8	0.91
(4,235)	2:300:A:SAH:HN62	1:121:A:THR:O	4	0.91
(4,235)	2:300:A:SAH:HN62	1:121:A:THR:O	11	0.9
(4,121)	1:123:A:GLY:H	1:125:A:GLU:O	7	0.9
(4,121)	1:123:A:GLY:H	1:125:A:GLU:O	10	0.9
(4,121)	1:123:A:GLY:H	1:125:A:GLU:O	17	0.89
(1,301)	1:210:A:ALA:HB1	1:177:A:LEU:HB2	18	0.89
(1,301)	1:210:A:ALA:HB1	1:177:A:LEU:HB3	18	0.89
(1,301)	1:210:A:ALA:HB2	1:177:A:LEU:HB2	18	0.89
(1,301)	1:210:A:ALA:HB2	1:177:A:LEU:HB3	18	0.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,301)	1:210:A:ALA:HB3	1:177:A:LEU:HB2	18	0.89
(1,301)	1:210:A:ALA:HB3	1:177:A:LEU:HB3	18	0.89
(1,262)	1:167:A:CYS:HB2	1:138:A:ILE:HG12	9	0.89
(4,236)	2:300:A:SAH:N6	1:121:A:THR:O	6	0.88
(4,121)	1:123:A:GLY:H	1:125:A:GLU:O	3	0.88
(4,121)	1:123:A:GLY:H	1:125:A:GLU:O	13	0.87
(4,121)	1:123:A:GLY:H	1:125:A:GLU:O	16	0.87
(4,235)	2:300:A:SAH:HN62	1:121:A:THR:O	8	0.86
(4,233)	1:121:A:THR:H	2:300:A:SAH:N1	4	0.86
(4,121)	1:123:A:GLY:H	1:125:A:GLU:O	19	0.86
(2,36)	1:96:A:GLN:HE21	1:74:A:LEU:HD11	18	0.86
(2,36)	1:96:A:GLN:HE21	1:74:A:LEU:HD12	18	0.86
(2,36)	1:96:A:GLN:HE21	1:74:A:LEU:HD13	18	0.86
(1,495)	1:29:A:CYS:HB3	1:26:A:ASP:HB2	19	0.86
(1,495)	1:29:A:CYS:HB3	1:26:A:ASP:HB3	19	0.86
(5,7)	1:206:A:HIS:H	1:228:A:SER:O	3	0.85
(5,7)	1:206:A:HIS:H	1:229:A:GLY:O	11	0.85
(4,122)	1:123:A:GLY:N	1:125:A:GLU:O	11	0.85
(4,121)	1:123:A:GLY:H	1:125:A:GLU:O	8	0.85
(1,247)	1:159:A:VAL:HA	1:131:A:GLU:HG3	8	0.84
(4,235)	2:300:A:SAH:HN62	1:121:A:THR:O	3	0.83
(1,247)	1:159:A:VAL:HA	1:131:A:GLU:HG3	12	0.83
(4,141)	1:144:A:SER:H	1:148:A:VAL:O	3	0.82
(4,121)	1:123:A:GLY:H	1:125:A:GLU:O	20	0.82
(4,236)	2:300:A:SAH:N6	1:121:A:THR:O	11	0.81
(1,247)	1:159:A:VAL:HA	1:131:A:GLU:HG3	10	0.81
(4,121)	1:123:A:GLY:H	1:125:A:GLU:O	5	0.8
(5,7)	1:206:A:HIS:H	1:229:A:GLY:O	5	0.79
(4,236)	2:300:A:SAH:N6	1:121:A:THR:O	19	0.79
(4,235)	2:300:A:SAH:HN62	1:121:A:THR:O	15	0.79
(4,235)	2:300:A:SAH:HN62	1:121:A:THR:O	16	0.79
(1,262)	1:167:A:CYS:HB2	1:138:A:ILE:HG12	13	0.79
(1,495)	1:29:A:CYS:HB3	1:26:A:ASP:HB2	11	0.78
(1,495)	1:29:A:CYS:HB3	1:26:A:ASP:HB3	11	0.78
(1,247)	1:159:A:VAL:HA	1:131:A:GLU:HG3	6	0.78
(1,247)	1:159:A:VAL:HA	1:131:A:GLU:HG3	5	0.77
(4,236)	2:300:A:SAH:N6	1:121:A:THR:O	8	0.76
(4,141)	1:144:A:SER:H	1:148:A:VAL:O	5	0.75
(1,495)	1:29:A:CYS:HB3	1:26:A:ASP:HB2	10	0.75
(1,495)	1:29:A:CYS:HB3	1:26:A:ASP:HB3	10	0.75
(1,333)	1:233:A:LEU:HD21	1:202:A:GLN:HE21	6	0.75
(1,333)	1:233:A:LEU:HD22	1:202:A:GLN:HE21	6	0.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,333)	1:233:A:LEU:HD23	1:202:A:GLN:HE21	6	0.75
(1,241)	1:153:A:ILE:HD11	1:148:A:VAL:HG11	11	0.75
(1,241)	1:153:A:ILE:HD11	1:148:A:VAL:HG12	11	0.75
(1,241)	1:153:A:ILE:HD11	1:148:A:VAL:HG13	11	0.75
(1,241)	1:153:A:ILE:HD12	1:148:A:VAL:HG11	11	0.75
(1,241)	1:153:A:ILE:HD12	1:148:A:VAL:HG12	11	0.75
(1,241)	1:153:A:ILE:HD12	1:148:A:VAL:HG13	11	0.75
(1,241)	1:153:A:ILE:HD13	1:148:A:VAL:HG11	11	0.75
(1,241)	1:153:A:ILE:HD13	1:148:A:VAL:HG12	11	0.75
(1,241)	1:153:A:ILE:HD13	1:148:A:VAL:HG13	11	0.75
(5,7)	1:206:A:HIS:H	1:229:A:GLY:O	4	0.74
(4,141)	1:144:A:SER:H	1:148:A:VAL:O	13	0.74
(1,247)	1:159:A:VAL:HA	1:131:A:GLU:HG3	7	0.74
(1,247)	1:159:A:VAL:HA	1:131:A:GLU:HG3	14	0.74
(1,247)	1:159:A:VAL:HA	1:131:A:GLU:HG3	15	0.74
(1,247)	1:159:A:VAL:HA	1:131:A:GLU:HG3	18	0.74
(4,236)	2:300:A:SAH:N6	1:121:A:THR:O	14	0.73
(4,236)	2:300:A:SAH:N6	1:121:A:THR:O	15	0.73
(1,520)	1:113:A:LEU:HB3	1:111:A:ARG:HG3	8	0.73
(5,7)	1:206:A:HIS:H	1:229:A:GLY:O	10	0.72
(4,121)	1:123:A:GLY:H	1:125:A:GLU:O	2	0.72
(2,36)	1:96:A:GLN:HE21	1:74:A:LEU:HD11	19	0.72
(2,36)	1:96:A:GLN:HE21	1:74:A:LEU:HD12	19	0.72
(2,36)	1:96:A:GLN:HE21	1:74:A:LEU:HD13	19	0.72
(1,495)	1:29:A:CYS:HB3	1:26:A:ASP:HB2	12	0.71
(1,495)	1:29:A:CYS:HB3	1:26:A:ASP:HB3	12	0.71
(4,122)	1:123:A:GLY:N	1:125:A:GLU:O	4	0.7
(1,262)	1:167:A:CYS:HB2	1:138:A:ILE:HG12	11	0.7
(4,236)	2:300:A:SAH:N6	1:121:A:THR:O	2	0.69
(4,236)	2:300:A:SAH:N6	1:121:A:THR:O	7	0.69
(4,236)	2:300:A:SAH:N6	1:121:A:THR:O	16	0.69
(4,235)	2:300:A:SAH:HN62	1:121:A:THR:O	17	0.69
(4,141)	1:144:A:SER:H	1:148:A:VAL:O	9	0.69
(4,121)	1:123:A:GLY:H	1:125:A:GLU:O	6	0.69
(4,121)	1:123:A:GLY:H	1:125:A:GLU:O	14	0.69
(1,495)	1:29:A:CYS:HB3	1:26:A:ASP:HB2	13	0.69
(1,495)	1:29:A:CYS:HB3	1:26:A:ASP:HB3	13	0.69
(1,495)	1:29:A:CYS:HB3	1:26:A:ASP:HB2	18	0.69
(1,495)	1:29:A:CYS:HB3	1:26:A:ASP:HB3	18	0.69
(1,462)	1:84:A:ALA:H	1:87:A:LEU:HB3	9	0.69
(1,69)	1:210:A:ALA:H	1:226:A:PHE:HA	15	0.69
(5,7)	1:206:A:HIS:H	1:229:A:GLY:O	16	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,122)	1:123:A:GLY:N	1:125:A:GLU:O	3	0.68
(4,236)	2:300:A:SAH:N6	1:121:A:THR:O	20	0.67
(1,247)	1:159:A:VAL:HA	1:131:A:GLU:HG3	19	0.67
(1,69)	1:210:A:ALA:H	1:226:A:PHE:HA	18	0.67
(4,236)	2:300:A:SAH:N6	1:121:A:THR:O	5	0.66
(4,141)	1:144:A:SER:H	1:148:A:VAL:O	20	0.66
(4,122)	1:123:A:GLY:N	1:125:A:GLU:O	18	0.66
(1,305)	1:226:A:PHE:HD1	1:210:A:ALA:H	5	0.66
(1,305)	1:226:A:PHE:HD2	1:210:A:ALA:H	5	0.66
(4,236)	2:300:A:SAH:N6	1:121:A:THR:O	13	0.65
(4,122)	1:123:A:GLY:N	1:125:A:GLU:O	1	0.65
(1,495)	1:29:A:CYS:HB3	1:26:A:ASP:HB2	5	0.65
(1,495)	1:29:A:CYS:HB3	1:26:A:ASP:HB3	5	0.65
(1,495)	1:29:A:CYS:HB3	1:26:A:ASP:HB2	17	0.65
(1,495)	1:29:A:CYS:HB3	1:26:A:ASP:HB3	17	0.65
(1,262)	1:167:A:CYS:HB2	1:138:A:ILE:HG12	19	0.65
(1,247)	1:159:A:VAL:HA	1:131:A:GLU:HG3	1	0.65
(1,247)	1:159:A:VAL:HA	1:131:A:GLU:HG3	13	0.65
(4,141)	1:144:A:SER:H	1:148:A:VAL:O	4	0.64
(4,141)	1:144:A:SER:H	1:148:A:VAL:O	7	0.64
(4,121)	1:123:A:GLY:H	1:125:A:GLU:O	12	0.64
(1,2034)	1:226:A:PHE:HA	1:226:A:PHE:HD1	13	0.64
(1,462)	1:84:A:ALA:H	1:87:A:LEU:HB3	20	0.63
(1,323)	1:231:A:ILE:HD11	1:202:A:GLN:HE21	14	0.63
(1,323)	1:231:A:ILE:HD12	1:202:A:GLN:HE21	14	0.63
(1,323)	1:231:A:ILE:HD13	1:202:A:GLN:HE21	14	0.63
(1,305)	1:226:A:PHE:HD1	1:210:A:ALA:H	12	0.63
(1,305)	1:226:A:PHE:HD2	1:210:A:ALA:H	12	0.63
(1,262)	1:167:A:CYS:HB2	1:138:A:ILE:HG12	6	0.63
(4,217)	1:231:A:ILE:H	1:202:A:GLN:O	3	0.62
(4,141)	1:144:A:SER:H	1:148:A:VAL:O	14	0.62
(1,495)	1:29:A:CYS:HB3	1:26:A:ASP:HB2	2	0.62
(1,495)	1:29:A:CYS:HB3	1:26:A:ASP:HB3	2	0.62
(5,7)	1:206:A:HIS:H	1:229:A:GLY:O	20	0.61
(4,217)	1:231:A:ILE:H	1:202:A:GLN:O	18	0.61
(4,122)	1:123:A:GLY:N	1:125:A:GLU:O	13	0.61
(4,121)	1:123:A:GLY:H	1:125:A:GLU:O	15	0.61
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG11	3	0.61
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG12	3	0.61
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG13	3	0.61
(4,170)	1:173:A:ASN:N	1:227:A:ILE:O	17	0.6
(4,122)	1:123:A:GLY:N	1:125:A:GLU:O	20	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,495)	1:29:A:CYS:HB3	1:26:A:ASP:HB2	1	0.6
(1,495)	1:29:A:CYS:HB3	1:26:A:ASP:HB3	1	0.6
(1,495)	1:29:A:CYS:HB3	1:26:A:ASP:HB2	7	0.6
(1,495)	1:29:A:CYS:HB3	1:26:A:ASP:HB3	7	0.6
(1,248)	1:159:A:VAL:HG21	1:132:A:GLY:H	10	0.6
(1,248)	1:159:A:VAL:HG22	1:132:A:GLY:H	10	0.6
(1,248)	1:159:A:VAL:HG23	1:132:A:GLY:H	10	0.6
(4,236)	2:300:A:SAH:N6	1:121:A:THR:O	17	0.59
(4,218)	1:231:A:ILE:N	1:202:A:GLN:O	3	0.59
(4,211)	1:225:A:GLY:H	1:210:A:ALA:O	19	0.59
(4,122)	1:123:A:GLY:N	1:125:A:GLU:O	7	0.59
(1,495)	1:29:A:CYS:HB3	1:26:A:ASP:HB2	6	0.59
(1,495)	1:29:A:CYS:HB3	1:26:A:ASP:HB3	6	0.59
(1,462)	1:84:A:ALA:H	1:87:A:LEU:HB3	13	0.59
(1,262)	1:167:A:CYS:HB2	1:138:A:ILE:HG12	16	0.59
(1,241)	1:153:A:ILE:HD11	1:148:A:VAL:HG11	12	0.59
(1,241)	1:153:A:ILE:HD11	1:148:A:VAL:HG12	12	0.59
(1,241)	1:153:A:ILE:HD11	1:148:A:VAL:HG13	12	0.59
(1,241)	1:153:A:ILE:HD12	1:148:A:VAL:HG11	12	0.59
(1,241)	1:153:A:ILE:HD12	1:148:A:VAL:HG12	12	0.59
(1,241)	1:153:A:ILE:HD12	1:148:A:VAL:HG13	12	0.59
(1,241)	1:153:A:ILE:HD13	1:148:A:VAL:HG11	12	0.59
(1,241)	1:153:A:ILE:HD13	1:148:A:VAL:HG12	12	0.59
(1,241)	1:153:A:ILE:HD13	1:148:A:VAL:HG13	12	0.59
(4,141)	1:144:A:SER:H	1:148:A:VAL:O	16	0.58
(1,1112)	1:232:A:TYR:HB3	1:231:A:ILE:HD11	14	0.58
(1,1112)	1:232:A:TYR:HB3	1:231:A:ILE:HD12	14	0.58
(1,1112)	1:232:A:TYR:HB3	1:231:A:ILE:HD13	14	0.58
(1,162)	1:115:A:HIS:HB2	1:96:A:GLN:HA	3	0.58
(4,122)	1:123:A:GLY:N	1:125:A:GLU:O	5	0.57
(1,556)	1:206:A:HIS:H	1:204:A:VAL:HG21	12	0.57
(1,556)	1:206:A:HIS:H	1:204:A:VAL:HG22	12	0.57
(1,556)	1:206:A:HIS:H	1:204:A:VAL:HG23	12	0.57
(1,529)	1:133:A:THR:HG21	1:129:A:ASP:H	9	0.57
(1,529)	1:133:A:THR:HG22	1:129:A:ASP:H	9	0.57
(1,529)	1:133:A:THR:HG23	1:129:A:ASP:H	9	0.57
(1,462)	1:84:A:ALA:H	1:87:A:LEU:HB3	14	0.57
(1,262)	1:167:A:CYS:HB2	1:138:A:ILE:HG12	4	0.57
(1,196)	1:122:A:LEU:HD11	1:15:A:LEU:H	20	0.57
(1,196)	1:122:A:LEU:HD12	1:15:A:LEU:H	20	0.57
(1,196)	1:122:A:LEU:HD13	1:15:A:LEU:H	20	0.57
(1,194)	1:122:A:LEU:HB2	1:15:A:LEU:H	9	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,69)	1:210:A:ALA:H	1:226:A:PHE:HA	9	0.57
(4,141)	1:144:A:SER:H	1:148:A:VAL:O	15	0.56
(1,305)	1:226:A:PHE:HD1	1:210:A:ALA:H	8	0.56
(1,305)	1:226:A:PHE:HD2	1:210:A:ALA:H	8	0.56
(1,305)	1:226:A:PHE:HD1	1:210:A:ALA:H	20	0.56
(1,305)	1:226:A:PHE:HD2	1:210:A:ALA:H	20	0.56
(1,54)	1:141:A:GLY:H	1:168:A:LEU:HA	3	0.56
(5,7)	1:206:A:HIS:H	1:228:A:SER:O	19	0.55
(4,236)	2:300:A:SAH:N6	1:121:A:THR:O	4	0.55
(4,235)	2:300:A:SAH:HN62	1:121:A:THR:O	9	0.55
(4,217)	1:231:A:ILE:H	1:202:A:GLN:O	16	0.55
(4,141)	1:144:A:SER:H	1:148:A:VAL:O	6	0.55
(1,1696)	1:65:A:ARG:HD2	1:65:A:ARG:H	20	0.55
(1,1026)	1:106:A:LYS:HE3	1:105:A:LEU:H	9	0.55
(1,556)	1:206:A:HIS:H	1:204:A:VAL:HG21	15	0.55
(1,556)	1:206:A:HIS:H	1:204:A:VAL:HG22	15	0.55
(1,556)	1:206:A:HIS:H	1:204:A:VAL:HG23	15	0.55
(1,315)	1:230:A:ILE:H	1:172:A:THR:HG21	8	0.55
(1,315)	1:230:A:ILE:H	1:172:A:THR:HG22	8	0.55
(1,315)	1:230:A:ILE:H	1:172:A:THR:HG23	8	0.55
(1,305)	1:226:A:PHE:HD1	1:210:A:ALA:H	1	0.55
(1,305)	1:226:A:PHE:HD2	1:210:A:ALA:H	1	0.55
(1,305)	1:226:A:PHE:HD1	1:210:A:ALA:H	10	0.55
(1,305)	1:226:A:PHE:HD2	1:210:A:ALA:H	10	0.55
(1,300)	1:197:A:GLU:HA	1:191:A:GLU:HG2	1	0.55
(1,241)	1:153:A:ILE:HD11	1:148:A:VAL:HG11	18	0.55
(1,241)	1:153:A:ILE:HD11	1:148:A:VAL:HG12	18	0.55
(1,241)	1:153:A:ILE:HD11	1:148:A:VAL:HG13	18	0.55
(1,241)	1:153:A:ILE:HD12	1:148:A:VAL:HG11	18	0.55
(1,241)	1:153:A:ILE:HD12	1:148:A:VAL:HG12	18	0.55
(1,241)	1:153:A:ILE:HD12	1:148:A:VAL:HG13	18	0.55
(1,241)	1:153:A:ILE:HD13	1:148:A:VAL:HG11	18	0.55
(1,241)	1:153:A:ILE:HD13	1:148:A:VAL:HG12	18	0.55
(1,241)	1:153:A:ILE:HD13	1:148:A:VAL:HG13	18	0.55
(4,235)	2:300:A:SAH:HN62	1:121:A:THR:O	12	0.54
(4,141)	1:144:A:SER:H	1:148:A:VAL:O	1	0.54
(4,141)	1:144:A:SER:H	1:148:A:VAL:O	2	0.54
(1,1112)	1:232:A:TYR:HB3	1:231:A:ILE:HD11	8	0.54
(1,1112)	1:232:A:TYR:HB3	1:231:A:ILE:HD12	8	0.54
(1,1112)	1:232:A:TYR:HB3	1:231:A:ILE:HD13	8	0.54
(1,1094)	1:196:A:TRP:HE1	1:195:A:VAL:HG21	2	0.54
(1,1094)	1:196:A:TRP:HE1	1:195:A:VAL:HG22	2	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1094)	1:196:A:TRP:HE1	1:195:A:VAL:HG23	2	0.54
(1,1094)	1:196:A:TRP:HE1	1:195:A:VAL:HG21	12	0.54
(1,1094)	1:196:A:TRP:HE1	1:195:A:VAL:HG22	12	0.54
(1,1094)	1:196:A:TRP:HE1	1:195:A:VAL:HG23	12	0.54
(1,329)	1:232:A:TYR:HA	1:201:A:THR:HB	3	0.54
(1,266)	1:167:A:CYS:H	1:139:A:ILE:HG21	7	0.54
(1,266)	1:167:A:CYS:H	1:139:A:ILE:HG22	7	0.54
(1,266)	1:167:A:CYS:H	1:139:A:ILE:HG23	7	0.54
(1,237)	1:149:A:PRO:HB3	1:123:A:GLY:HA3	12	0.54
(4,236)	2:300:A:SAH:N6	1:121:A:THR:O	12	0.53
(4,141)	1:144:A:SER:H	1:148:A:VAL:O	19	0.53
(4,137)	1:140:A:VAL:H	1:78:A:CYS:O	17	0.53
(4,122)	1:123:A:GLY:N	1:125:A:GLU:O	9	0.53
(4,89)	1:94:A:GLN:H	1:68:A:PRO:O	17	0.53
(1,1696)	1:65:A:ARG:HD2	1:65:A:ARG:H	11	0.53
(1,545)	1:172:A:THR:H	1:170:A:THR:HG21	5	0.53
(1,545)	1:172:A:THR:H	1:170:A:THR:HG22	5	0.53
(1,545)	1:172:A:THR:H	1:170:A:THR:HG23	5	0.53
(1,495)	1:29:A:CYS:HB3	1:26:A:ASP:HB2	15	0.53
(1,495)	1:29:A:CYS:HB3	1:26:A:ASP:HB3	15	0.53
(1,433)	1:26:A:ASP:HA	1:28:A:ALA:H	9	0.53
(1,322)	1:231:A:ILE:HD11	1:202:A:GLN:HE22	14	0.53
(1,322)	1:231:A:ILE:HD12	1:202:A:GLN:HE22	14	0.53
(1,322)	1:231:A:ILE:HD13	1:202:A:GLN:HE22	14	0.53
(1,307)	1:227:A:ILE:HG21	1:173:A:ASN:HA	17	0.53
(1,307)	1:227:A:ILE:HG22	1:173:A:ASN:HA	17	0.53
(1,307)	1:227:A:ILE:HG23	1:173:A:ASN:HA	17	0.53
(1,248)	1:159:A:VAL:HG21	1:132:A:GLY:H	1	0.53
(1,248)	1:159:A:VAL:HG22	1:132:A:GLY:H	1	0.53
(1,248)	1:159:A:VAL:HG23	1:132:A:GLY:H	1	0.53
(1,248)	1:159:A:VAL:HG21	1:132:A:GLY:H	7	0.53
(1,248)	1:159:A:VAL:HG22	1:132:A:GLY:H	7	0.53
(1,248)	1:159:A:VAL:HG23	1:132:A:GLY:H	7	0.53
(4,235)	2:300:A:SAH:HN62	1:121:A:THR:O	18	0.52
(2,87)	1:160:A:THR:HA	1:129:A:ASP:HB2	12	0.52
(1,1082)	1:184:A:GLU:HG2	1:183:A:LEU:HG	13	0.52
(1,495)	1:29:A:CYS:HB3	1:26:A:ASP:HB2	4	0.52
(1,495)	1:29:A:CYS:HB3	1:26:A:ASP:HB3	4	0.52
(1,495)	1:29:A:CYS:HB3	1:26:A:ASP:HB2	16	0.52
(1,495)	1:29:A:CYS:HB3	1:26:A:ASP:HB3	16	0.52
(1,462)	1:84:A:ALA:H	1:87:A:LEU:HB3	16	0.52
(1,433)	1:26:A:ASP:HA	1:28:A:ALA:H	20	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,305)	1:226:A:PHE:HD1	1:210:A:ALA:H	11	0.52
(1,305)	1:226:A:PHE:HD2	1:210:A:ALA:H	11	0.52
(1,69)	1:210:A:ALA:H	1:226:A:PHE:HA	5	0.52
(4,236)	2:300:A:SAH:N6	1:121:A:THR:O	3	0.51
(4,236)	2:300:A:SAH:N6	1:121:A:THR:O	18	0.51
(4,217)	1:231:A:ILE:H	1:202:A:GLN:O	2	0.51
(4,217)	1:231:A:ILE:H	1:202:A:GLN:O	8	0.51
(4,141)	1:144:A:SER:H	1:148:A:VAL:O	17	0.51
(4,9)	1:11:A:LEU:H	1:146:A:GLY:O	17	0.51
(2,162)	1:153:A:ILE:H	1:149:A:PRO:HB3	9	0.51
(1,1696)	1:65:A:ARG:HD2	1:65:A:ARG:H	5	0.51
(1,462)	1:84:A:ALA:H	1:87:A:LEU:HB3	7	0.51
(1,462)	1:84:A:ALA:H	1:87:A:LEU:HB3	10	0.51
(1,462)	1:84:A:ALA:H	1:87:A:LEU:HB3	17	0.51
(1,194)	1:122:A:LEU:HB2	1:15:A:LEU:H	1	0.51
(1,162)	1:115:A:HIS:HB2	1:96:A:GLN:HA	15	0.51
(5,7)	1:206:A:HIS:H	1:229:A:GLY:O	2	0.5
(2,107)	1:231:A:ILE:HG12	1:52:A:ALA:H	2	0.5
(2,87)	1:160:A:THR:HA	1:129:A:ASP:HB2	5	0.5
(1,1696)	1:65:A:ARG:HD2	1:65:A:ARG:H	2	0.5
(1,1065)	1:154:A:PRO:HD3	1:153:A:ILE:HG13	13	0.5
(1,1026)	1:106:A:LYS:HE3	1:105:A:LEU:H	2	0.5
(1,520)	1:113:A:LEU:HB3	1:111:A:ARG:HG3	9	0.5
(1,462)	1:84:A:ALA:H	1:87:A:LEU:HB3	1	0.5
(1,315)	1:230:A:ILE:H	1:172:A:THR:HG21	20	0.5
(1,315)	1:230:A:ILE:H	1:172:A:THR:HG22	20	0.5
(1,315)	1:230:A:ILE:H	1:172:A:THR:HG23	20	0.5
(1,305)	1:226:A:PHE:HD1	1:210:A:ALA:H	3	0.5
(1,305)	1:226:A:PHE:HD2	1:210:A:ALA:H	3	0.5
(1,305)	1:226:A:PHE:HD1	1:210:A:ALA:H	4	0.5
(1,305)	1:226:A:PHE:HD2	1:210:A:ALA:H	4	0.5
(1,248)	1:159:A:VAL:HG21	1:132:A:GLY:H	8	0.5
(1,248)	1:159:A:VAL:HG22	1:132:A:GLY:H	8	0.5
(1,248)	1:159:A:VAL:HG23	1:132:A:GLY:H	8	0.5
(1,154)	1:114:A:TYR:HE1	1:97:A:GLY:H	20	0.5
(1,154)	1:114:A:TYR:HE2	1:97:A:GLY:H	20	0.5
(1,54)	1:141:A:GLY:H	1:168:A:LEU:HA	4	0.5
(4,141)	1:144:A:SER:H	1:148:A:VAL:O	10	0.49
(4,89)	1:94:A:GLN:H	1:68:A:PRO:O	12	0.49
(1,1094)	1:196:A:TRP:HE1	1:195:A:VAL:HG21	4	0.49
(1,1094)	1:196:A:TRP:HE1	1:195:A:VAL:HG22	4	0.49
(1,1094)	1:196:A:TRP:HE1	1:195:A:VAL:HG23	4	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1094)	1:196:A:TRP:HE1	1:195:A:VAL:HG21	8	0.49
(1,1094)	1:196:A:TRP:HE1	1:195:A:VAL:HG22	8	0.49
(1,1094)	1:196:A:TRP:HE1	1:195:A:VAL:HG23	8	0.49
(1,1030)	1:116:A:HIS:HB2	1:115:A:HIS:HB3	9	0.49
(1,556)	1:206:A:HIS:H	1:204:A:VAL:HG21	6	0.49
(1,556)	1:206:A:HIS:H	1:204:A:VAL:HG22	6	0.49
(1,556)	1:206:A:HIS:H	1:204:A:VAL:HG23	6	0.49
(1,462)	1:84:A:ALA:H	1:87:A:LEU:HB3	3	0.49
(1,433)	1:26:A:ASP:HA	1:28:A:ALA:H	8	0.49
(1,433)	1:26:A:ASP:HA	1:28:A:ALA:H	19	0.49
(1,354)	1:238:A:GLU:HG2	1:163:A:GLY:HA2	3	0.49
(1,354)	1:238:A:GLU:HG3	1:163:A:GLY:HA2	3	0.49
(1,315)	1:230:A:ILE:H	1:172:A:THR:HG21	11	0.49
(1,315)	1:230:A:ILE:H	1:172:A:THR:HG22	11	0.49
(1,315)	1:230:A:ILE:H	1:172:A:THR:HG23	11	0.49
(1,247)	1:159:A:VAL:HA	1:131:A:GLU:HG3	3	0.49
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD11	9	0.49
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD12	9	0.49
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD13	9	0.49
(1,194)	1:122:A:LEU:HB2	1:15:A:LEU:H	16	0.49
(1,194)	1:122:A:LEU:HB2	1:15:A:LEU:H	20	0.49
(1,54)	1:141:A:GLY:H	1:168:A:LEU:HA	19	0.49
(5,7)	1:206:A:HIS:H	1:229:A:GLY:O	1	0.48
(4,218)	1:231:A:ILE:N	1:202:A:GLN:O	8	0.48
(4,215)	1:230:A:ILE:H	1:170:A:THR:O	14	0.48
(4,10)	1:11:A:LEU:N	1:146:A:GLY:O	17	0.48
(1,1030)	1:116:A:HIS:HB2	1:115:A:HIS:HB3	3	0.48
(1,495)	1:29:A:CYS:HB3	1:26:A:ASP:HB2	14	0.48
(1,495)	1:29:A:CYS:HB3	1:26:A:ASP:HB3	14	0.48
(1,354)	1:238:A:GLU:HG2	1:163:A:GLY:HA2	5	0.48
(1,354)	1:238:A:GLU:HG3	1:163:A:GLY:HA2	5	0.48
(1,307)	1:227:A:ILE:HG21	1:173:A:ASN:HA	15	0.48
(1,307)	1:227:A:ILE:HG22	1:173:A:ASN:HA	15	0.48
(1,307)	1:227:A:ILE:HG23	1:173:A:ASN:HA	15	0.48
(1,248)	1:159:A:VAL:HG21	1:132:A:GLY:H	19	0.48
(1,248)	1:159:A:VAL:HG22	1:132:A:GLY:H	19	0.48
(1,248)	1:159:A:VAL:HG23	1:132:A:GLY:H	19	0.48
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD11	8	0.48
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD12	8	0.48
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD13	8	0.48
(1,162)	1:115:A:HIS:HB2	1:96:A:GLN:HA	5	0.48
(1,69)	1:210:A:ALA:H	1:226:A:PHE:HA	8	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,69)	1:210:A:ALA:H	1:226:A:PHE:HA	10	0.48
(5,13)	1:240:A:VAL:H	1:191:A:GLU:O	4	0.47
(5,13)	1:240:A:VAL:H	1:191:A:GLU:O	18	0.47
(4,236)	2:300:A:SAH:N6	1:121:A:THR:O	9	0.47
(4,218)	1:231:A:ILE:N	1:202:A:GLN:O	18	0.47
(4,217)	1:231:A:ILE:H	1:202:A:GLN:O	11	0.47
(4,119)	1:120:A:CYS:H	1:99:A:ASP:O	13	0.47
(2,107)	1:231:A:ILE:HG12	1:52:A:ALA:H	17	0.47
(2,66)	1:122:A:LEU:HD21	1:16:A:ALA:H	19	0.47
(2,66)	1:122:A:LEU:HD22	1:16:A:ALA:H	19	0.47
(2,66)	1:122:A:LEU:HD23	1:16:A:ALA:H	19	0.47
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD21	10	0.47
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD22	10	0.47
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD23	10	0.47
(1,2103)	2:300:A:SAH:H2	1:121:A:THR:HG21	6	0.47
(1,2103)	2:300:A:SAH:H2	1:121:A:THR:HG22	6	0.47
(1,2103)	2:300:A:SAH:H2	1:121:A:THR:HG23	6	0.47
(1,1094)	1:196:A:TRP:HE1	1:195:A:VAL:HG21	5	0.47
(1,1094)	1:196:A:TRP:HE1	1:195:A:VAL:HG22	5	0.47
(1,1094)	1:196:A:TRP:HE1	1:195:A:VAL:HG23	5	0.47
(1,1082)	1:184:A:GLU:HG2	1:183:A:LEU:HG	3	0.47
(1,1026)	1:106:A:LYS:HE3	1:105:A:LEU:H	4	0.47
(1,529)	1:133:A:THR:HG21	1:129:A:ASP:H	8	0.47
(1,529)	1:133:A:THR:HG22	1:129:A:ASP:H	8	0.47
(1,529)	1:133:A:THR:HG23	1:129:A:ASP:H	8	0.47
(1,354)	1:238:A:GLU:HG2	1:163:A:GLY:HA2	1	0.47
(1,354)	1:238:A:GLU:HG3	1:163:A:GLY:HA2	1	0.47
(1,337)	1:234:A:TYR:HE1	1:198:A:CYS:H	2	0.47
(1,337)	1:234:A:TYR:HE2	1:198:A:CYS:H	2	0.47
(1,300)	1:197:A:GLU:HA	1:191:A:GLU:HG2	14	0.47
(1,248)	1:159:A:VAL:HG21	1:132:A:GLY:H	5	0.47
(1,248)	1:159:A:VAL:HG22	1:132:A:GLY:H	5	0.47
(1,248)	1:159:A:VAL:HG23	1:132:A:GLY:H	5	0.47
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD11	15	0.47
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD12	15	0.47
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD13	15	0.47
(1,162)	1:115:A:HIS:HB2	1:96:A:GLN:HA	6	0.47
(5,7)	1:206:A:HIS:H	1:229:A:GLY:O	18	0.46
(4,217)	1:231:A:ILE:H	1:202:A:GLN:O	1	0.46
(4,211)	1:225:A:GLY:H	1:210:A:ALA:O	3	0.46
(2,162)	1:153:A:ILE:H	1:149:A:PRO:HB3	18	0.46
(2,104)	1:228:A:SER:HB2	1:173:A:ASN:HD21	12	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,104)	1:228:A:SER:HB2	1:173:A:ASN:HD22	12	0.46
(2,104)	1:228:A:SER:HB3	1:173:A:ASN:HD21	12	0.46
(2,104)	1:228:A:SER:HB3	1:173:A:ASN:HD22	12	0.46
(2,98)	1:210:A:ALA:HB1	1:177:A:LEU:HA	9	0.46
(2,98)	1:210:A:ALA:HB2	1:177:A:LEU:HA	9	0.46
(2,98)	1:210:A:ALA:HB3	1:177:A:LEU:HA	9	0.46
(1,1696)	1:65:A:ARG:HD2	1:65:A:ARG:H	10	0.46
(1,520)	1:113:A:LEU:HB3	1:111:A:ARG:HG3	3	0.46
(1,519)	1:113:A:LEU:HB2	1:111:A:ARG:HG2	8	0.46
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG21	3	0.46
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG22	3	0.46
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG23	3	0.46
(1,452)	1:28:A:ALA:H	1:26:A:ASP:HB2	14	0.46
(1,452)	1:28:A:ALA:H	1:26:A:ASP:HB3	14	0.46
(1,354)	1:238:A:GLU:HG2	1:163:A:GLY:HA2	15	0.46
(1,354)	1:238:A:GLU:HG3	1:163:A:GLY:HA2	15	0.46
(1,354)	1:238:A:GLU:HG2	1:163:A:GLY:HA2	18	0.46
(1,354)	1:238:A:GLU:HG3	1:163:A:GLY:HA2	18	0.46
(1,248)	1:159:A:VAL:HG21	1:132:A:GLY:H	13	0.46
(1,248)	1:159:A:VAL:HG22	1:132:A:GLY:H	13	0.46
(1,248)	1:159:A:VAL:HG23	1:132:A:GLY:H	13	0.46
(1,247)	1:159:A:VAL:HA	1:131:A:GLU:HG3	11	0.46
(1,162)	1:115:A:HIS:HB2	1:96:A:GLN:HA	20	0.46
(1,20)	1:230:A:ILE:H	1:170:A:THR:H	19	0.46
(1,18)	1:229:A:GLY:H	1:170:A:THR:H	2	0.46
(1,18)	1:229:A:GLY:H	1:170:A:THR:H	15	0.46
(5,13)	1:240:A:VAL:H	1:192:A:ARG:O	3	0.45
(4,217)	1:231:A:ILE:H	1:202:A:GLN:O	10	0.45
(4,141)	1:144:A:SER:H	1:148:A:VAL:O	8	0.45
(4,119)	1:120:A:CYS:H	1:99:A:ASP:O	8	0.45
(4,89)	1:94:A:GLN:H	1:68:A:PRO:O	20	0.45
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD11	2	0.45
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD12	2	0.45
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD13	2	0.45
(1,1693)	1:64:A:PHE:HB3	1:64:A:PHE:HD1	19	0.45
(1,1102)	1:203:A:PRO:HD3	1:202:A:GLN:HE21	3	0.45
(1,1094)	1:196:A:TRP:HE1	1:195:A:VAL:HG21	14	0.45
(1,1094)	1:196:A:TRP:HE1	1:195:A:VAL:HG22	14	0.45
(1,1094)	1:196:A:TRP:HE1	1:195:A:VAL:HG23	14	0.45
(1,879)	1:115:A:HIS:HB3	1:116:A:HIS:H	6	0.45
(1,545)	1:172:A:THR:H	1:170:A:THR:HG21	19	0.45
(1,545)	1:172:A:THR:H	1:170:A:THR:HG22	19	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,545)	1:172:A:THR:H	1:170:A:THR:HG23	19	0.45
(1,520)	1:113:A:LEU:HB3	1:111:A:ARG:HG3	16	0.45
(1,495)	1:29:A:CYS:HB3	1:26:A:ASP:HB2	20	0.45
(1,495)	1:29:A:CYS:HB3	1:26:A:ASP:HB3	20	0.45
(1,452)	1:28:A:ALA:H	1:26:A:ASP:HB2	3	0.45
(1,452)	1:28:A:ALA:H	1:26:A:ASP:HB3	3	0.45
(1,433)	1:26:A:ASP:HA	1:28:A:ALA:H	5	0.45
(1,433)	1:26:A:ASP:HA	1:28:A:ALA:H	17	0.45
(1,354)	1:238:A:GLU:HG2	1:163:A:GLY:HA2	13	0.45
(1,354)	1:238:A:GLU:HG3	1:163:A:GLY:HA2	13	0.45
(1,316)	1:231:A:ILE:HD11	1:52:A:ALA:H	18	0.45
(1,316)	1:231:A:ILE:HD12	1:52:A:ALA:H	18	0.45
(1,316)	1:231:A:ILE:HD13	1:52:A:ALA:H	18	0.45
(1,300)	1:197:A:GLU:HA	1:191:A:GLU:HG2	8	0.45
(1,247)	1:159:A:VAL:HA	1:131:A:GLU:HG3	17	0.45
(1,244)	1:155:A:GLU:HG2	1:127:A:LEU:H	19	0.45
(1,244)	1:155:A:GLU:HG3	1:127:A:LEU:H	19	0.45
(1,238)	1:152:A:ALA:HB1	1:123:A:GLY:H	19	0.45
(1,238)	1:152:A:ALA:HB2	1:123:A:GLY:H	19	0.45
(1,238)	1:152:A:ALA:HB3	1:123:A:GLY:H	19	0.45
(1,237)	1:149:A:PRO:HB3	1:123:A:GLY:HA3	6	0.45
(1,194)	1:122:A:LEU:HB2	1:15:A:LEU:H	17	0.45
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG11	20	0.45
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG12	20	0.45
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG13	20	0.45
(1,77)	1:226:A:PHE:HA	1:177:A:LEU:HA	17	0.45
(4,218)	1:231:A:ILE:N	1:202:A:GLN:O	2	0.44
(4,217)	1:231:A:ILE:H	1:202:A:GLN:O	4	0.44
(4,211)	1:225:A:GLY:H	1:210:A:ALA:O	1	0.44
(2,87)	1:160:A:THR:HA	1:129:A:ASP:HB2	11	0.44
(2,41)	1:97:A:GLY:H	1:75:A:ASP:HB2	11	0.44
(1,1996)	1:192:A:ARG:HG2	1:192:A:ARG:H	10	0.44
(1,1996)	1:192:A:ARG:HG3	1:192:A:ARG:H	10	0.44
(1,1696)	1:65:A:ARG:HD2	1:65:A:ARG:H	9	0.44
(1,1696)	1:65:A:ARG:HD2	1:65:A:ARG:H	14	0.44
(1,1696)	1:65:A:ARG:HD2	1:65:A:ARG:H	15	0.44
(1,529)	1:133:A:THR:HG21	1:129:A:ASP:H	3	0.44
(1,529)	1:133:A:THR:HG22	1:129:A:ASP:H	3	0.44
(1,529)	1:133:A:THR:HG23	1:129:A:ASP:H	3	0.44
(1,494)	1:14:A:VAL:H	1:11:A:LEU:HD11	19	0.44
(1,494)	1:14:A:VAL:H	1:11:A:LEU:HD12	19	0.44
(1,494)	1:14:A:VAL:H	1:11:A:LEU:HD13	19	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,433)	1:26:A:ASP:HA	1:28:A:ALA:H	12	0.44
(1,354)	1:238:A:GLU:HG2	1:163:A:GLY:HA2	20	0.44
(1,354)	1:238:A:GLU:HG3	1:163:A:GLY:HA2	20	0.44
(1,305)	1:226:A:PHE:HD1	1:210:A:ALA:H	14	0.44
(1,305)	1:226:A:PHE:HD2	1:210:A:ALA:H	14	0.44
(1,300)	1:197:A:GLU:HA	1:191:A:GLU:HG2	13	0.44
(1,248)	1:159:A:VAL:HG21	1:132:A:GLY:H	17	0.44
(1,248)	1:159:A:VAL:HG22	1:132:A:GLY:H	17	0.44
(1,248)	1:159:A:VAL:HG23	1:132:A:GLY:H	17	0.44
(1,162)	1:115:A:HIS:HB2	1:96:A:GLN:HA	8	0.44
(1,162)	1:115:A:HIS:HB2	1:96:A:GLN:HA	16	0.44
(1,162)	1:115:A:HIS:HB2	1:96:A:GLN:HA	19	0.44
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG11	16	0.44
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG12	16	0.44
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG13	16	0.44
(1,69)	1:210:A:ALA:H	1:226:A:PHE:HA	11	0.44
(4,218)	1:231:A:ILE:N	1:202:A:GLN:O	16	0.43
(4,217)	1:231:A:ILE:H	1:202:A:GLN:O	14	0.43
(4,119)	1:120:A:CYS:H	1:99:A:ASP:O	12	0.43
(4,89)	1:94:A:GLN:H	1:68:A:PRO:O	8	0.43
(2,162)	1:153:A:ILE:H	1:149:A:PRO:HB3	5	0.43
(2,162)	1:153:A:ILE:H	1:149:A:PRO:HB3	11	0.43
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD11	7	0.43
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD12	7	0.43
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD13	7	0.43
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD11	19	0.43
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD12	19	0.43
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD13	19	0.43
(2,36)	1:96:A:GLN:HE21	1:74:A:LEU:HD11	10	0.43
(2,36)	1:96:A:GLN:HE21	1:74:A:LEU:HD12	10	0.43
(2,36)	1:96:A:GLN:HE21	1:74:A:LEU:HD13	10	0.43
(1,1696)	1:65:A:ARG:HD2	1:65:A:ARG:H	3	0.43
(1,1693)	1:64:A:PHE:HB3	1:64:A:PHE:HD1	10	0.43
(1,1108)	1:228:A:SER:H	1:227:A:ILE:HG21	10	0.43
(1,1108)	1:228:A:SER:H	1:227:A:ILE:HG22	10	0.43
(1,1108)	1:228:A:SER:H	1:227:A:ILE:HG23	10	0.43
(1,1094)	1:196:A:TRP:HE1	1:195:A:VAL:HG21	1	0.43
(1,1094)	1:196:A:TRP:HE1	1:195:A:VAL:HG22	1	0.43
(1,1094)	1:196:A:TRP:HE1	1:195:A:VAL:HG23	1	0.43
(1,1094)	1:196:A:TRP:HE1	1:195:A:VAL:HG21	17	0.43
(1,1094)	1:196:A:TRP:HE1	1:195:A:VAL:HG22	17	0.43
(1,1094)	1:196:A:TRP:HE1	1:195:A:VAL:HG23	17	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,893)	1:134:A:PHE:HB2	1:135:A:ASP:H	15	0.43
(1,893)	1:134:A:PHE:HB2	1:135:A:ASP:H	17	0.43
(1,879)	1:115:A:HIS:HB3	1:116:A:HIS:H	16	0.43
(1,879)	1:115:A:HIS:HB3	1:116:A:HIS:H	19	0.43
(1,529)	1:133:A:THR:HG21	1:129:A:ASP:H	11	0.43
(1,529)	1:133:A:THR:HG22	1:129:A:ASP:H	11	0.43
(1,529)	1:133:A:THR:HG23	1:129:A:ASP:H	11	0.43
(1,520)	1:113:A:LEU:HB3	1:111:A:ARG:HG3	15	0.43
(1,433)	1:26:A:ASP:HA	1:28:A:ALA:H	4	0.43
(1,354)	1:238:A:GLU:HG2	1:163:A:GLY:HA2	17	0.43
(1,354)	1:238:A:GLU:HG3	1:163:A:GLY:HA2	17	0.43
(1,315)	1:230:A:ILE:H	1:172:A:THR:HG21	1	0.43
(1,315)	1:230:A:ILE:H	1:172:A:THR:HG22	1	0.43
(1,315)	1:230:A:ILE:H	1:172:A:THR:HG23	1	0.43
(1,300)	1:197:A:GLU:HA	1:191:A:GLU:HG2	12	0.43
(1,300)	1:197:A:GLU:HA	1:191:A:GLU:HG2	17	0.43
(1,248)	1:159:A:VAL:HG21	1:132:A:GLY:H	6	0.43
(1,248)	1:159:A:VAL:HG22	1:132:A:GLY:H	6	0.43
(1,248)	1:159:A:VAL:HG23	1:132:A:GLY:H	6	0.43
(1,194)	1:122:A:LEU:HB2	1:15:A:LEU:H	3	0.43
(1,69)	1:210:A:ALA:H	1:226:A:PHE:HA	12	0.43
(1,69)	1:210:A:ALA:H	1:226:A:PHE:HA	14	0.43
(4,217)	1:231:A:ILE:H	1:202:A:GLN:O	20	0.42
(4,213)	1:229:A:GLY:H	1:170:A:THR:O	2	0.42
(4,138)	1:140:A:VAL:N	1:78:A:CYS:O	17	0.42
(4,137)	1:140:A:VAL:H	1:78:A:CYS:O	12	0.42
(4,119)	1:120:A:CYS:H	1:99:A:ASP:O	11	0.42
(4,89)	1:94:A:GLN:H	1:68:A:PRO:O	7	0.42
(4,7)	1:9:A:GLY:H	1:5:A:GLN:O	13	0.42
(2,162)	1:153:A:ILE:H	1:149:A:PRO:HB3	10	0.42
(2,162)	1:153:A:ILE:H	1:149:A:PRO:HB3	20	0.42
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD11	13	0.42
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD12	13	0.42
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD13	13	0.42
(1,1696)	1:65:A:ARG:HD2	1:65:A:ARG:H	13	0.42
(1,1492)	1:238:A:GLU:HB3	1:238:A:GLU:H	3	0.42
(1,1026)	1:106:A:LYS:HE3	1:105:A:LEU:H	7	0.42
(1,893)	1:134:A:PHE:HB2	1:135:A:ASP:H	8	0.42
(1,893)	1:134:A:PHE:HB2	1:135:A:ASP:H	18	0.42
(1,633)	1:123:A:GLY:H	1:122:A:LEU:H	20	0.42
(1,530)	1:133:A:THR:HG21	1:129:A:ASP:HB3	2	0.42
(1,530)	1:133:A:THR:HG22	1:129:A:ASP:HB3	2	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,530)	1:133:A:THR:HG23	1:129:A:ASP:HB3	2	0.42
(1,520)	1:113:A:LEU:HB3	1:111:A:ARG:HG3	2	0.42
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG21	13	0.42
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG22	13	0.42
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG23	13	0.42
(1,495)	1:29:A:CYS:HB3	1:26:A:ASP:HB2	3	0.42
(1,495)	1:29:A:CYS:HB3	1:26:A:ASP:HB3	3	0.42
(1,433)	1:26:A:ASP:HA	1:28:A:ALA:H	10	0.42
(1,334)	1:233:A:LEU:HD21	1:202:A:GLN:HE22	6	0.42
(1,334)	1:233:A:LEU:HD22	1:202:A:GLN:HE22	6	0.42
(1,334)	1:233:A:LEU:HD23	1:202:A:GLN:HE22	6	0.42
(1,333)	1:233:A:LEU:HD21	1:202:A:GLN:HE21	16	0.42
(1,333)	1:233:A:LEU:HD22	1:202:A:GLN:HE21	16	0.42
(1,333)	1:233:A:LEU:HD23	1:202:A:GLN:HE21	16	0.42
(1,329)	1:232:A:TYR:HA	1:201:A:THR:HB	13	0.42
(1,305)	1:226:A:PHE:HD1	1:210:A:ALA:H	15	0.42
(1,305)	1:226:A:PHE:HD2	1:210:A:ALA:H	15	0.42
(1,305)	1:226:A:PHE:HD1	1:210:A:ALA:H	16	0.42
(1,305)	1:226:A:PHE:HD2	1:210:A:ALA:H	16	0.42
(1,305)	1:226:A:PHE:HD1	1:210:A:ALA:H	19	0.42
(1,305)	1:226:A:PHE:HD2	1:210:A:ALA:H	19	0.42
(1,248)	1:159:A:VAL:HG21	1:132:A:GLY:H	14	0.42
(1,248)	1:159:A:VAL:HG22	1:132:A:GLY:H	14	0.42
(1,248)	1:159:A:VAL:HG23	1:132:A:GLY:H	14	0.42
(1,162)	1:115:A:HIS:HB2	1:96:A:GLN:HA	17	0.42
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG11	5	0.42
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG12	5	0.42
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG13	5	0.42
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG11	6	0.42
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG12	6	0.42
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG13	6	0.42
(1,54)	1:141:A:GLY:H	1:168:A:LEU:HA	2	0.42
(5,13)	1:240:A:VAL:H	1:191:A:GLU:O	20	0.41
(4,235)	2:300:A:SAH:HN62	1:121:A:THR:O	10	0.41
(4,218)	1:231:A:ILE:N	1:202:A:GLN:O	1	0.41
(4,218)	1:231:A:ILE:N	1:202:A:GLN:O	4	0.41
(4,218)	1:231:A:ILE:N	1:202:A:GLN:O	11	0.41
(4,199)	1:196:A:TRP:H	1:190:A:LEU:O	3	0.41
(4,199)	1:196:A:TRP:H	1:190:A:LEU:O	13	0.41
(4,137)	1:140:A:VAL:H	1:78:A:CYS:O	8	0.41
(4,122)	1:123:A:GLY:N	1:125:A:GLU:O	8	0.41
(4,119)	1:120:A:CYS:H	1:99:A:ASP:O	18	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,89)	1:94:A:GLN:H	1:68:A:PRO:O	1	0.41
(4,89)	1:94:A:GLN:H	1:68:A:PRO:O	14	0.41
(2,194)	1:183:A:LEU:HG	1:181:A:GLU:H	15	0.41
(2,194)	1:183:A:LEU:HG	1:181:A:GLU:H	20	0.41
(2,87)	1:160:A:THR:HA	1:129:A:ASP:HB2	6	0.41
(1,1696)	1:65:A:ARG:HD2	1:65:A:ARG:H	7	0.41
(1,1646)	1:17:A:ARG:HG3	1:17:A:ARG:H	8	0.41
(1,1094)	1:196:A:TRP:HE1	1:195:A:VAL:HG21	20	0.41
(1,1094)	1:196:A:TRP:HE1	1:195:A:VAL:HG22	20	0.41
(1,1094)	1:196:A:TRP:HE1	1:195:A:VAL:HG23	20	0.41
(1,1082)	1:184:A:GLU:HG2	1:183:A:LEU:HG	19	0.41
(1,1030)	1:116:A:HIS:HB2	1:115:A:HIS:HB3	5	0.41
(1,633)	1:123:A:GLY:H	1:122:A:LEU:H	7	0.41
(1,633)	1:123:A:GLY:H	1:122:A:LEU:H	11	0.41
(1,554)	1:202:A:GLN:HA	1:200:A:VAL:HG21	12	0.41
(1,554)	1:202:A:GLN:HA	1:200:A:VAL:HG22	12	0.41
(1,554)	1:202:A:GLN:HA	1:200:A:VAL:HG23	12	0.41
(1,529)	1:133:A:THR:HG21	1:129:A:ASP:H	20	0.41
(1,529)	1:133:A:THR:HG22	1:129:A:ASP:H	20	0.41
(1,529)	1:133:A:THR:HG23	1:129:A:ASP:H	20	0.41
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG21	10	0.41
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG22	10	0.41
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG23	10	0.41
(1,495)	1:29:A:CYS:HB3	1:26:A:ASP:HB2	8	0.41
(1,495)	1:29:A:CYS:HB3	1:26:A:ASP:HB3	8	0.41
(1,403)	1:176:A:ASN:HA	1:180:A:LYS:H	10	0.41
(1,354)	1:238:A:GLU:HG2	1:163:A:GLY:HA2	11	0.41
(1,354)	1:238:A:GLU:HG3	1:163:A:GLY:HA2	11	0.41
(1,333)	1:233:A:LEU:HD21	1:202:A:GLN:HE21	10	0.41
(1,333)	1:233:A:LEU:HD22	1:202:A:GLN:HE21	10	0.41
(1,333)	1:233:A:LEU:HD23	1:202:A:GLN:HE21	10	0.41
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD11	2	0.41
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD12	2	0.41
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD13	2	0.41
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD11	7	0.41
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD12	7	0.41
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD13	7	0.41
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD11	12	0.41
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD12	12	0.41
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD13	12	0.41
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG11	1	0.41
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG12	1	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG13	1	0.41
(1,20)	1:230:A:ILE:H	1:170:A:THR:H	14	0.41
(5,13)	1:240:A:VAL:H	1:191:A:GLU:O	11	0.4
(4,236)	2:300:A:SAH:N6	1:121:A:THR:O	10	0.4
(4,205)	1:200:A:VAL:H	1:233:A:LEU:O	2	0.4
(4,122)	1:123:A:GLY:N	1:125:A:GLU:O	10	0.4
(4,111)	1:113:A:LEU:H	1:108:A:ALA:O	10	0.4
(4,89)	1:94:A:GLN:H	1:68:A:PRO:O	3	0.4
(4,89)	1:94:A:GLN:H	1:68:A:PRO:O	5	0.4
(4,89)	1:94:A:GLN:H	1:68:A:PRO:O	10	0.4
(4,11)	1:14:A:VAL:H	1:10:A:ARG:O	1	0.4
(2,87)	1:160:A:THR:HA	1:129:A:ASP:HB2	1	0.4
(2,87)	1:160:A:THR:HA	1:129:A:ASP:HB2	15	0.4
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD11	16	0.4
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD12	16	0.4
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD13	16	0.4
(1,1693)	1:64:A:PHE:HB3	1:64:A:PHE:HD1	16	0.4
(1,1492)	1:238:A:GLU:HB3	1:238:A:GLU:H	4	0.4
(1,1492)	1:238:A:GLU:HB3	1:238:A:GLU:H	8	0.4
(1,1492)	1:238:A:GLU:HB3	1:238:A:GLU:H	12	0.4
(1,1492)	1:238:A:GLU:HB3	1:238:A:GLU:H	19	0.4
(1,1101)	1:202:A:GLN:HE21	1:201:A:THR:HA	3	0.4
(1,1026)	1:106:A:LYS:HE3	1:105:A:LEU:H	8	0.4
(1,1018)	1:94:A:GLN:HG2	1:93:A:LEU:H	18	0.4
(1,893)	1:134:A:PHE:HB2	1:135:A:ASP:H	9	0.4
(1,893)	1:134:A:PHE:HB2	1:135:A:ASP:H	12	0.4
(1,633)	1:123:A:GLY:H	1:122:A:LEU:H	8	0.4
(1,633)	1:123:A:GLY:H	1:122:A:LEU:H	10	0.4
(1,633)	1:123:A:GLY:H	1:122:A:LEU:H	19	0.4
(1,556)	1:206:A:HIS:H	1:204:A:VAL:HG21	17	0.4
(1,556)	1:206:A:HIS:H	1:204:A:VAL:HG22	17	0.4
(1,556)	1:206:A:HIS:H	1:204:A:VAL:HG23	17	0.4
(1,529)	1:133:A:THR:HG21	1:129:A:ASP:H	12	0.4
(1,529)	1:133:A:THR:HG22	1:129:A:ASP:H	12	0.4
(1,529)	1:133:A:THR:HG23	1:129:A:ASP:H	12	0.4
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG21	17	0.4
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG22	17	0.4
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG23	17	0.4
(1,433)	1:26:A:ASP:HA	1:28:A:ALA:H	1	0.4
(1,311)	1:228:A:SER:HA	1:174:A:PRO:HD2	6	0.4
(1,306)	1:227:A:ILE:HG21	1:173:A:ASN:HD22	17	0.4
(1,306)	1:227:A:ILE:HG22	1:173:A:ASN:HD22	17	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,306)	1:227:A:ILE:HG23	1:173:A:ASN:HD22	17	0.4
(1,237)	1:149:A:PRO:HB3	1:123:A:GLY:HA3	19	0.4
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD11	1	0.4
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD12	1	0.4
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD13	1	0.4
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD11	13	0.4
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD12	13	0.4
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD13	13	0.4
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD11	17	0.4
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD12	17	0.4
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD13	17	0.4
(1,69)	1:210:A:ALA:H	1:226:A:PHE:HA	7	0.4
(1,69)	1:210:A:ALA:H	1:226:A:PHE:HA	16	0.4
(1,69)	1:210:A:ALA:H	1:226:A:PHE:HA	19	0.4
(1,54)	1:141:A:GLY:H	1:168:A:LEU:HA	13	0.4
(4,218)	1:231:A:ILE:N	1:202:A:GLN:O	10	0.39
(4,218)	1:231:A:ILE:N	1:202:A:GLN:O	14	0.39
(4,199)	1:196:A:TRP:H	1:190:A:LEU:O	6	0.39
(4,199)	1:196:A:TRP:H	1:190:A:LEU:O	11	0.39
(4,199)	1:196:A:TRP:H	1:190:A:LEU:O	14	0.39
(4,119)	1:120:A:CYS:H	1:99:A:ASP:O	7	0.39
(4,119)	1:120:A:CYS:H	1:99:A:ASP:O	9	0.39
(4,111)	1:113:A:LEU:H	1:108:A:ALA:O	3	0.39
(4,55)	1:72:A:LEU:H	1:135:A:ASP:OD1	16	0.39
(4,3)	1:7:A:GLU:H	1:3:A:MET:O	6	0.39
(2,194)	1:183:A:LEU:HG	1:181:A:GLU:H	7	0.39
(2,194)	1:183:A:LEU:HG	1:181:A:GLU:H	12	0.39
(2,194)	1:183:A:LEU:HG	1:181:A:GLU:H	19	0.39
(2,162)	1:153:A:ILE:H	1:149:A:PRO:HB3	12	0.39
(2,107)	1:231:A:ILE:HG12	1:52:A:ALA:H	7	0.39
(2,87)	1:160:A:THR:HA	1:129:A:ASP:HB2	16	0.39
(2,87)	1:160:A:THR:HA	1:129:A:ASP:HB2	20	0.39
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD11	4	0.39
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD12	4	0.39
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD13	4	0.39
(1,1492)	1:238:A:GLU:HB3	1:238:A:GLU:H	1	0.39
(1,1492)	1:238:A:GLU:HB3	1:238:A:GLU:H	6	0.39
(1,1492)	1:238:A:GLU:HB3	1:238:A:GLU:H	10	0.39
(1,1118)	1:238:A:GLU:H	1:237:A:GLN:HG2	20	0.39
(1,1081)	1:182:A:THR:H	1:181:A:GLU:HG2	3	0.39
(1,1026)	1:106:A:LYS:HE3	1:105:A:LEU:H	16	0.39
(1,942)	1:205:A:ASP:HB3	1:206:A:HIS:H	5	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,893)	1:134:A:PHE:HB2	1:135:A:ASP:H	3	0.39
(1,879)	1:115:A:HIS:HB3	1:116:A:HIS:H	13	0.39
(1,633)	1:123:A:GLY:H	1:122:A:LEU:H	5	0.39
(1,633)	1:123:A:GLY:H	1:122:A:LEU:H	9	0.39
(1,633)	1:123:A:GLY:H	1:122:A:LEU:H	13	0.39
(1,633)	1:123:A:GLY:H	1:122:A:LEU:H	16	0.39
(1,545)	1:172:A:THR:H	1:170:A:THR:HG21	2	0.39
(1,545)	1:172:A:THR:H	1:170:A:THR:HG22	2	0.39
(1,545)	1:172:A:THR:H	1:170:A:THR:HG23	2	0.39
(1,520)	1:113:A:LEU:HB3	1:111:A:ARG:HG3	6	0.39
(1,403)	1:176:A:ASN:HA	1:180:A:LYS:H	20	0.39
(1,333)	1:233:A:LEU:HD21	1:202:A:GLN:HE21	12	0.39
(1,333)	1:233:A:LEU:HD22	1:202:A:GLN:HE21	12	0.39
(1,333)	1:233:A:LEU:HD23	1:202:A:GLN:HE21	12	0.39
(1,305)	1:226:A:PHE:HD1	1:210:A:ALA:H	2	0.39
(1,305)	1:226:A:PHE:HD2	1:210:A:ALA:H	2	0.39
(1,300)	1:197:A:GLU:HA	1:191:A:GLU:HG2	11	0.39
(1,300)	1:197:A:GLU:HA	1:191:A:GLU:HG2	18	0.39
(1,248)	1:159:A:VAL:HG21	1:132:A:GLY:H	18	0.39
(1,248)	1:159:A:VAL:HG22	1:132:A:GLY:H	18	0.39
(1,248)	1:159:A:VAL:HG23	1:132:A:GLY:H	18	0.39
(1,237)	1:149:A:PRO:HB3	1:123:A:GLY:HA3	8	0.39
(1,237)	1:149:A:PRO:HB3	1:123:A:GLY:HA3	17	0.39
(1,194)	1:122:A:LEU:HB2	1:15:A:LEU:H	11	0.39
(1,162)	1:115:A:HIS:HB2	1:96:A:GLN:HA	1	0.39
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG11	10	0.39
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG12	10	0.39
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG13	10	0.39
(1,69)	1:210:A:ALA:H	1:226:A:PHE:HA	4	0.39
(1,18)	1:229:A:GLY:H	1:170:A:THR:H	18	0.39
(5,14)	1:240:A:VAL:N	1:192:A:ARG:O	3	0.38
(5,13)	1:240:A:VAL:H	1:191:A:GLU:O	15	0.38
(5,7)	1:206:A:HIS:H	1:229:A:GLY:O	12	0.38
(4,213)	1:229:A:GLY:H	1:170:A:THR:O	15	0.38
(4,199)	1:196:A:TRP:H	1:190:A:LEU:O	10	0.38
(4,199)	1:196:A:TRP:H	1:190:A:LEU:O	20	0.38
(4,89)	1:94:A:GLN:H	1:68:A:PRO:O	11	0.38
(4,55)	1:72:A:LEU:H	1:135:A:ASP:OD1	15	0.38
(4,55)	1:72:A:LEU:H	1:135:A:ASP:OD1	18	0.38
(2,194)	1:183:A:LEU:HG	1:181:A:GLU:H	11	0.38
(2,104)	1:228:A:SER:HB2	1:173:A:ASN:HD21	6	0.38
(2,104)	1:228:A:SER:HB2	1:173:A:ASN:HD22	6	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,104)	1:228:A:SER:HB3	1:173:A:ASN:HD21	6	0.38
(2,104)	1:228:A:SER:HB3	1:173:A:ASN:HD22	6	0.38
(2,104)	1:228:A:SER:HB2	1:173:A:ASN:HD21	9	0.38
(2,104)	1:228:A:SER:HB2	1:173:A:ASN:HD22	9	0.38
(2,104)	1:228:A:SER:HB3	1:173:A:ASN:HD21	9	0.38
(2,104)	1:228:A:SER:HB3	1:173:A:ASN:HD22	9	0.38
(2,98)	1:210:A:ALA:HB1	1:177:A:LEU:HA	13	0.38
(2,98)	1:210:A:ALA:HB2	1:177:A:LEU:HA	13	0.38
(2,98)	1:210:A:ALA:HB3	1:177:A:LEU:HA	13	0.38
(2,92)	1:167:A:CYS:HB3	1:139:A:ILE:HA	10	0.38
(2,87)	1:160:A:THR:HA	1:129:A:ASP:HB2	3	0.38
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD11	8	0.38
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD12	8	0.38
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD13	8	0.38
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD21	8	0.38
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD22	8	0.38
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD23	8	0.38
(1,1112)	1:232:A:TYR:HB3	1:231:A:ILE:HD11	4	0.38
(1,1112)	1:232:A:TYR:HB3	1:231:A:ILE:HD12	4	0.38
(1,1112)	1:232:A:TYR:HB3	1:231:A:ILE:HD13	4	0.38
(1,893)	1:134:A:PHE:HB2	1:135:A:ASP:H	20	0.38
(1,879)	1:115:A:HIS:HB3	1:116:A:HIS:H	11	0.38
(1,879)	1:115:A:HIS:HB3	1:116:A:HIS:H	20	0.38
(1,633)	1:123:A:GLY:H	1:122:A:LEU:H	3	0.38
(1,633)	1:123:A:GLY:H	1:122:A:LEU:H	4	0.38
(1,633)	1:123:A:GLY:H	1:122:A:LEU:H	6	0.38
(1,633)	1:123:A:GLY:H	1:122:A:LEU:H	12	0.38
(1,633)	1:123:A:GLY:H	1:122:A:LEU:H	14	0.38
(1,556)	1:206:A:HIS:H	1:204:A:VAL:HG21	13	0.38
(1,556)	1:206:A:HIS:H	1:204:A:VAL:HG22	13	0.38
(1,556)	1:206:A:HIS:H	1:204:A:VAL:HG23	13	0.38
(1,529)	1:133:A:THR:HG21	1:129:A:ASP:H	1	0.38
(1,529)	1:133:A:THR:HG22	1:129:A:ASP:H	1	0.38
(1,529)	1:133:A:THR:HG23	1:129:A:ASP:H	1	0.38
(1,529)	1:133:A:THR:HG21	1:129:A:ASP:H	13	0.38
(1,529)	1:133:A:THR:HG22	1:129:A:ASP:H	13	0.38
(1,529)	1:133:A:THR:HG23	1:129:A:ASP:H	13	0.38
(1,452)	1:28:A:ALA:H	1:26:A:ASP:HB2	1	0.38
(1,452)	1:28:A:ALA:H	1:26:A:ASP:HB3	1	0.38
(1,433)	1:26:A:ASP:HA	1:28:A:ALA:H	11	0.38
(1,433)	1:26:A:ASP:HA	1:28:A:ALA:H	13	0.38
(1,329)	1:232:A:TYR:HA	1:201:A:THR:HB	12	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,248)	1:159:A:VAL:HG21	1:132:A:GLY:H	11	0.38
(1,248)	1:159:A:VAL:HG22	1:132:A:GLY:H	11	0.38
(1,248)	1:159:A:VAL:HG23	1:132:A:GLY:H	11	0.38
(1,247)	1:159:A:VAL:HA	1:131:A:GLU:HG3	4	0.38
(1,247)	1:159:A:VAL:HA	1:131:A:GLU:HG3	9	0.38
(1,247)	1:159:A:VAL:HA	1:131:A:GLU:HG3	20	0.38
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD11	4	0.38
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD12	4	0.38
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD13	4	0.38
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD11	11	0.38
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD12	11	0.38
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD13	11	0.38
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD11	20	0.38
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD12	20	0.38
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD13	20	0.38
(1,200)	1:129:A:ASP:HB3	1:74:A:LEU:HD21	11	0.38
(1,200)	1:129:A:ASP:HB3	1:74:A:LEU:HD22	11	0.38
(1,200)	1:129:A:ASP:HB3	1:74:A:LEU:HD23	11	0.38
(1,200)	1:129:A:ASP:HB3	1:74:A:LEU:HD21	18	0.38
(1,200)	1:129:A:ASP:HB3	1:74:A:LEU:HD22	18	0.38
(1,200)	1:129:A:ASP:HB3	1:74:A:LEU:HD23	18	0.38
(1,176)	1:118:A:SER:HB3	1:98:A:VAL:HA	12	0.38
(1,150)	1:113:A:LEU:HD21	1:85:A:VAL:H	7	0.38
(1,150)	1:113:A:LEU:HD22	1:85:A:VAL:H	7	0.38
(1,150)	1:113:A:LEU:HD23	1:85:A:VAL:H	7	0.38
(1,147)	1:111:A:ARG:HD2	1:85:A:VAL:HG11	8	0.38
(1,147)	1:111:A:ARG:HD2	1:85:A:VAL:HG12	8	0.38
(1,147)	1:111:A:ARG:HD2	1:85:A:VAL:HG13	8	0.38
(1,129)	1:99:A:ASP:HB3	1:79:A:GLY:H	20	0.38
(1,69)	1:210:A:ALA:H	1:226:A:PHE:HA	6	0.38
(1,54)	1:141:A:GLY:H	1:168:A:LEU:HA	8	0.38
(1,54)	1:141:A:GLY:H	1:168:A:LEU:HA	20	0.38
(4,200)	1:196:A:TRP:N	1:190:A:LEU:O	13	0.37
(4,199)	1:196:A:TRP:H	1:190:A:LEU:O	2	0.37
(4,199)	1:196:A:TRP:H	1:190:A:LEU:O	12	0.37
(4,119)	1:120:A:CYS:H	1:99:A:ASP:O	2	0.37
(4,119)	1:120:A:CYS:H	1:99:A:ASP:O	6	0.37
(4,119)	1:120:A:CYS:H	1:99:A:ASP:O	10	0.37
(4,119)	1:120:A:CYS:H	1:99:A:ASP:O	15	0.37
(4,67)	1:80:A:THR:H	1:78:A:CYS:O	14	0.37
(4,55)	1:72:A:LEU:H	1:135:A:ASP:OD1	12	0.37
(4,9)	1:11:A:LEU:H	1:146:A:GLY:O	2	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,9)	1:11:A:LEU:H	1:146:A:GLY:O	20	0.37
(2,194)	1:183:A:LEU:HG	1:181:A:GLU:H	3	0.37
(2,194)	1:183:A:LEU:HG	1:181:A:GLU:H	13	0.37
(2,162)	1:153:A:ILE:H	1:149:A:PRO:HB3	15	0.37
(2,87)	1:160:A:THR:HA	1:129:A:ASP:HB2	2	0.37
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD11	9	0.37
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD12	9	0.37
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD13	9	0.37
(1,1696)	1:65:A:ARG:HD2	1:65:A:ARG:H	8	0.37
(1,1696)	1:65:A:ARG:HD2	1:65:A:ARG:H	18	0.37
(1,1696)	1:65:A:ARG:HD2	1:65:A:ARG:H	19	0.37
(1,1492)	1:238:A:GLU:HB3	1:238:A:GLU:H	7	0.37
(1,1492)	1:238:A:GLU:HB3	1:238:A:GLU:H	15	0.37
(1,1492)	1:238:A:GLU:HB3	1:238:A:GLU:H	16	0.37
(1,1492)	1:238:A:GLU:HB3	1:238:A:GLU:H	18	0.37
(1,1081)	1:182:A:THR:H	1:181:A:GLU:HG2	2	0.37
(1,1046)	1:132:A:GLY:H	1:131:A:GLU:HG3	12	0.37
(1,1026)	1:106:A:LYS:HE3	1:105:A:LEU:H	6	0.37
(1,1026)	1:106:A:LYS:HE3	1:105:A:LEU:H	10	0.37
(1,1015)	1:91:A:GLY:H	1:90:A:ARG:HD3	18	0.37
(1,942)	1:205:A:ASP:HB3	1:206:A:HIS:H	15	0.37
(1,919)	1:182:A:THR:HB	1:183:A:LEU:H	15	0.37
(1,905)	1:157:A:LEU:HB2	1:158:A:ARG:H	9	0.37
(1,893)	1:134:A:PHE:HB2	1:135:A:ASP:H	2	0.37
(1,879)	1:115:A:HIS:HB3	1:116:A:HIS:H	8	0.37
(1,633)	1:123:A:GLY:H	1:122:A:LEU:H	2	0.37
(1,633)	1:123:A:GLY:H	1:122:A:LEU:H	15	0.37
(1,633)	1:123:A:GLY:H	1:122:A:LEU:H	17	0.37
(1,529)	1:133:A:THR:HG21	1:129:A:ASP:H	2	0.37
(1,529)	1:133:A:THR:HG22	1:129:A:ASP:H	2	0.37
(1,529)	1:133:A:THR:HG23	1:129:A:ASP:H	2	0.37
(1,520)	1:113:A:LEU:HB3	1:111:A:ARG:HG3	5	0.37
(1,495)	1:29:A:CYS:HB3	1:26:A:ASP:HB2	9	0.37
(1,495)	1:29:A:CYS:HB3	1:26:A:ASP:HB3	9	0.37
(1,433)	1:26:A:ASP:HA	1:28:A:ALA:H	2	0.37
(1,433)	1:26:A:ASP:HA	1:28:A:ALA:H	7	0.37
(1,433)	1:26:A:ASP:HA	1:28:A:ALA:H	14	0.37
(1,318)	1:231:A:ILE:HD11	1:52:A:ALA:HA	3	0.37
(1,318)	1:231:A:ILE:HD12	1:52:A:ALA:HA	3	0.37
(1,318)	1:231:A:ILE:HD13	1:52:A:ALA:HA	3	0.37
(1,307)	1:227:A:ILE:HG21	1:173:A:ASN:HA	4	0.37
(1,307)	1:227:A:ILE:HG22	1:173:A:ASN:HA	4	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,307)	1:227:A:ILE:HG23	1:173:A:ASN:HA	4	0.37
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD11	14	0.37
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD12	14	0.37
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD13	14	0.37
(1,194)	1:122:A:LEU:HB2	1:15:A:LEU:H	8	0.37
(1,176)	1:118:A:SER:HB3	1:98:A:VAL:HA	1	0.37
(1,162)	1:115:A:HIS:HB2	1:96:A:GLN:HA	7	0.37
(1,150)	1:113:A:LEU:HD21	1:85:A:VAL:H	2	0.37
(1,150)	1:113:A:LEU:HD22	1:85:A:VAL:H	2	0.37
(1,150)	1:113:A:LEU:HD23	1:85:A:VAL:H	2	0.37
(1,150)	1:113:A:LEU:HD21	1:85:A:VAL:H	19	0.37
(1,150)	1:113:A:LEU:HD22	1:85:A:VAL:H	19	0.37
(1,150)	1:113:A:LEU:HD23	1:85:A:VAL:H	19	0.37
(1,69)	1:210:A:ALA:H	1:226:A:PHE:HA	3	0.37
(1,54)	1:141:A:GLY:H	1:168:A:LEU:HA	12	0.37
(5,13)	1:240:A:VAL:H	1:191:A:GLU:O	9	0.36
(5,7)	1:206:A:HIS:H	1:229:A:GLY:O	7	0.36
(4,213)	1:229:A:GLY:H	1:170:A:THR:O	7	0.36
(4,200)	1:196:A:TRP:N	1:190:A:LEU:O	6	0.36
(4,119)	1:120:A:CYS:H	1:99:A:ASP:O	1	0.36
(4,119)	1:120:A:CYS:H	1:99:A:ASP:O	14	0.36
(4,51)	1:69:A:HIS:H	1:67:A:SER:O	17	0.36
(4,9)	1:11:A:LEU:H	1:146:A:GLY:O	18	0.36
(4,4)	1:7:A:GLU:N	1:3:A:MET:O	6	0.36
(2,194)	1:183:A:LEU:HG	1:181:A:GLU:H	9	0.36
(2,194)	1:183:A:LEU:HG	1:181:A:GLU:H	16	0.36
(1,1492)	1:238:A:GLU:HB3	1:238:A:GLU:H	9	0.36
(1,1492)	1:238:A:GLU:HB3	1:238:A:GLU:H	11	0.36
(1,1492)	1:238:A:GLU:HB3	1:238:A:GLU:H	13	0.36
(1,1492)	1:238:A:GLU:HB3	1:238:A:GLU:H	14	0.36
(1,1492)	1:238:A:GLU:HB3	1:238:A:GLU:H	17	0.36
(1,1357)	1:75:A:ASP:HB3	1:75:A:ASP:H	14	0.36
(1,1357)	1:75:A:ASP:HB3	1:75:A:ASP:H	16	0.36
(1,1108)	1:228:A:SER:H	1:227:A:ILE:HG21	17	0.36
(1,1108)	1:228:A:SER:H	1:227:A:ILE:HG22	17	0.36
(1,1108)	1:228:A:SER:H	1:227:A:ILE:HG23	17	0.36
(1,1065)	1:154:A:PRO:HD3	1:153:A:ILE:HG13	6	0.36
(1,1030)	1:116:A:HIS:HB2	1:115:A:HIS:HB3	7	0.36
(1,1030)	1:116:A:HIS:HB2	1:115:A:HIS:HB3	12	0.36
(1,893)	1:134:A:PHE:HB2	1:135:A:ASP:H	7	0.36
(1,864)	1:88:A:GLN:HB2	1:89:A:ALA:H	12	0.36
(1,633)	1:123:A:GLY:H	1:122:A:LEU:H	18	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,452)	1:28:A:ALA:H	1:26:A:ASP:HB2	15	0.36
(1,452)	1:28:A:ALA:H	1:26:A:ASP:HB3	15	0.36
(1,433)	1:26:A:ASP:HA	1:28:A:ALA:H	16	0.36
(1,403)	1:176:A:ASN:HA	1:180:A:LYS:H	12	0.36
(1,354)	1:238:A:GLU:HG2	1:163:A:GLY:HA2	6	0.36
(1,354)	1:238:A:GLU:HG3	1:163:A:GLY:HA2	6	0.36
(1,262)	1:167:A:CYS:HB2	1:138:A:ILE:HG12	8	0.36
(1,250)	1:159:A:VAL:HG21	1:133:A:THR:HB	5	0.36
(1,250)	1:159:A:VAL:HG22	1:133:A:THR:HB	5	0.36
(1,250)	1:159:A:VAL:HG23	1:133:A:THR:HB	5	0.36
(1,237)	1:149:A:PRO:HB3	1:123:A:GLY:HA3	1	0.36
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG11	3	0.36
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG12	3	0.36
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG13	3	0.36
(1,197)	1:122:A:LEU:HD11	1:16:A:ALA:H	1	0.36
(1,197)	1:122:A:LEU:HD12	1:16:A:ALA:H	1	0.36
(1,197)	1:122:A:LEU:HD13	1:16:A:ALA:H	1	0.36
(1,197)	1:122:A:LEU:HD11	1:16:A:ALA:H	20	0.36
(1,197)	1:122:A:LEU:HD12	1:16:A:ALA:H	20	0.36
(1,197)	1:122:A:LEU:HD13	1:16:A:ALA:H	20	0.36
(1,162)	1:115:A:HIS:HB2	1:96:A:GLN:HA	18	0.36
(1,54)	1:141:A:GLY:H	1:168:A:LEU:HA	1	0.36
(1,54)	1:141:A:GLY:H	1:168:A:LEU:HA	16	0.36
(1,18)	1:229:A:GLY:H	1:170:A:THR:H	4	0.36
(1,18)	1:229:A:GLY:H	1:170:A:THR:H	7	0.36
(1,18)	1:229:A:GLY:H	1:170:A:THR:H	10	0.36
(4,218)	1:231:A:ILE:N	1:202:A:GLN:O	20	0.35
(4,215)	1:230:A:ILE:H	1:170:A:THR:O	3	0.35
(4,211)	1:225:A:GLY:H	1:210:A:ALA:O	18	0.35
(4,200)	1:196:A:TRP:N	1:190:A:LEU:O	10	0.35
(4,200)	1:196:A:TRP:N	1:190:A:LEU:O	11	0.35
(4,199)	1:196:A:TRP:H	1:190:A:LEU:O	7	0.35
(4,199)	1:196:A:TRP:H	1:190:A:LEU:O	8	0.35
(4,199)	1:196:A:TRP:H	1:190:A:LEU:O	17	0.35
(4,122)	1:123:A:GLY:N	1:125:A:GLU:O	6	0.35
(4,122)	1:123:A:GLY:N	1:125:A:GLU:O	17	0.35
(4,119)	1:120:A:CYS:H	1:99:A:ASP:O	4	0.35
(4,119)	1:120:A:CYS:H	1:99:A:ASP:O	16	0.35
(4,119)	1:120:A:CYS:H	1:99:A:ASP:O	17	0.35
(4,111)	1:113:A:LEU:H	1:108:A:ALA:O	5	0.35
(4,89)	1:94:A:GLN:H	1:68:A:PRO:O	4	0.35
(4,87)	1:93:A:LEU:H	1:68:A:PRO:O	11	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,194)	1:183:A:LEU:HG	1:181:A:GLU:H	14	0.35
(2,158)	1:111:A:ARG:H	1:113:A:LEU:HB3	3	0.35
(2,158)	1:111:A:ARG:H	1:113:A:LEU:HB3	5	0.35
(2,107)	1:231:A:ILE:HG12	1:52:A:ALA:H	20	0.35
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD11	12	0.35
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD12	12	0.35
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD13	12	0.35
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD21	2	0.35
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD22	2	0.35
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD23	2	0.35
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD21	3	0.35
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD22	3	0.35
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD23	3	0.35
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD21	16	0.35
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD22	16	0.35
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD23	16	0.35
(1,2024)	1:204:A:VAL:HG11	1:204:A:VAL:H	5	0.35
(1,2024)	1:204:A:VAL:HG12	1:204:A:VAL:H	5	0.35
(1,2024)	1:204:A:VAL:HG13	1:204:A:VAL:H	5	0.35
(1,2024)	1:204:A:VAL:HG11	1:204:A:VAL:H	15	0.35
(1,2024)	1:204:A:VAL:HG12	1:204:A:VAL:H	15	0.35
(1,2024)	1:204:A:VAL:HG13	1:204:A:VAL:H	15	0.35
(1,2024)	1:204:A:VAL:HG11	1:204:A:VAL:H	17	0.35
(1,2024)	1:204:A:VAL:HG12	1:204:A:VAL:H	17	0.35
(1,2024)	1:204:A:VAL:HG13	1:204:A:VAL:H	17	0.35
(1,1118)	1:238:A:GLU:H	1:237:A:GLN:HG2	9	0.35
(1,1118)	1:238:A:GLU:H	1:237:A:GLN:HG2	12	0.35
(1,1065)	1:154:A:PRO:HD3	1:153:A:ILE:HG13	8	0.35
(1,963)	1:238:A:GLU:HB2	1:239:A:THR:H	18	0.35
(1,893)	1:134:A:PHE:HB2	1:135:A:ASP:H	13	0.35
(1,893)	1:134:A:PHE:HB2	1:135:A:ASP:H	14	0.35
(1,893)	1:134:A:PHE:HB2	1:135:A:ASP:H	19	0.35
(1,886)	1:122:A:LEU:HB2	1:123:A:GLY:H	10	0.35
(1,884)	1:118:A:SER:HB3	1:119:A:LEU:H	13	0.35
(1,879)	1:115:A:HIS:HB3	1:116:A:HIS:H	2	0.35
(1,633)	1:123:A:GLY:H	1:122:A:LEU:H	1	0.35
(1,556)	1:206:A:HIS:H	1:204:A:VAL:HG21	5	0.35
(1,556)	1:206:A:HIS:H	1:204:A:VAL:HG22	5	0.35
(1,556)	1:206:A:HIS:H	1:204:A:VAL:HG23	5	0.35
(1,494)	1:14:A:VAL:H	1:11:A:LEU:HD11	10	0.35
(1,494)	1:14:A:VAL:H	1:11:A:LEU:HD12	10	0.35
(1,494)	1:14:A:VAL:H	1:11:A:LEU:HD13	10	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,403)	1:176:A:ASN:HA	1:180:A:LYS:H	8	0.35
(1,354)	1:238:A:GLU:HG2	1:163:A:GLY:HA2	4	0.35
(1,354)	1:238:A:GLU:HG3	1:163:A:GLY:HA2	4	0.35
(1,329)	1:232:A:TYR:HA	1:201:A:THR:HB	7	0.35
(1,329)	1:232:A:TYR:HA	1:201:A:THR:HB	9	0.35
(1,329)	1:232:A:TYR:HA	1:201:A:THR:HB	14	0.35
(1,308)	1:227:A:ILE:HD11	1:173:A:ASN:H	13	0.35
(1,308)	1:227:A:ILE:HD12	1:173:A:ASN:H	13	0.35
(1,308)	1:227:A:ILE:HD13	1:173:A:ASN:H	13	0.35
(1,308)	1:227:A:ILE:HD11	1:173:A:ASN:H	14	0.35
(1,308)	1:227:A:ILE:HD12	1:173:A:ASN:H	14	0.35
(1,308)	1:227:A:ILE:HD13	1:173:A:ASN:H	14	0.35
(1,300)	1:197:A:GLU:HA	1:191:A:GLU:HG2	6	0.35
(1,237)	1:149:A:PRO:HB3	1:123:A:GLY:HA3	9	0.35
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG11	18	0.35
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG12	18	0.35
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG13	18	0.35
(1,194)	1:122:A:LEU:HB2	1:15:A:LEU:H	12	0.35
(1,162)	1:115:A:HIS:HB2	1:96:A:GLN:HA	13	0.35
(1,154)	1:114:A:TYR:HE1	1:97:A:GLY:H	11	0.35
(1,154)	1:114:A:TYR:HE2	1:97:A:GLY:H	11	0.35
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG11	11	0.35
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG12	11	0.35
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG13	11	0.35
(1,77)	1:226:A:PHE:HA	1:177:A:LEU:HA	13	0.35
(1,54)	1:141:A:GLY:H	1:168:A:LEU:HA	11	0.35
(4,199)	1:196:A:TRP:H	1:190:A:LEU:O	1	0.34
(4,199)	1:196:A:TRP:H	1:190:A:LEU:O	15	0.34
(4,119)	1:120:A:CYS:H	1:99:A:ASP:O	19	0.34
(4,111)	1:113:A:LEU:H	1:108:A:ALA:O	1	0.34
(4,111)	1:113:A:LEU:H	1:108:A:ALA:O	12	0.34
(4,89)	1:94:A:GLN:H	1:68:A:PRO:O	2	0.34
(4,89)	1:94:A:GLN:H	1:68:A:PRO:O	15	0.34
(4,65)	1:79:A:GLY:H	1:77:A:ALA:O	9	0.34
(4,11)	1:14:A:VAL:H	1:10:A:ARG:O	15	0.34
(2,194)	1:183:A:LEU:HG	1:181:A:GLU:H	8	0.34
(2,87)	1:160:A:THR:HA	1:129:A:ASP:HB2	17	0.34
(2,87)	1:160:A:THR:HA	1:129:A:ASP:HB2	18	0.34
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD11	10	0.34
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD12	10	0.34
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD13	10	0.34
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD21	9	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD22	9	0.34
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD23	9	0.34
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD21	17	0.34
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD22	17	0.34
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD23	17	0.34
(1,2092)	2:300:A:SAH:HG1	1:38:A:ALA:HB1	1	0.34
(1,2092)	2:300:A:SAH:HG1	1:38:A:ALA:HB2	1	0.34
(1,2092)	2:300:A:SAH:HG1	1:38:A:ALA:HB3	1	0.34
(1,2034)	1:226:A:PHE:HA	1:226:A:PHE:HD1	1	0.34
(1,2024)	1:204:A:VAL:HG11	1:204:A:VAL:H	6	0.34
(1,2024)	1:204:A:VAL:HG12	1:204:A:VAL:H	6	0.34
(1,2024)	1:204:A:VAL:HG13	1:204:A:VAL:H	6	0.34
(1,2024)	1:204:A:VAL:HG11	1:204:A:VAL:H	12	0.34
(1,2024)	1:204:A:VAL:HG12	1:204:A:VAL:H	12	0.34
(1,2024)	1:204:A:VAL:HG13	1:204:A:VAL:H	12	0.34
(1,2024)	1:204:A:VAL:HG11	1:204:A:VAL:H	13	0.34
(1,2024)	1:204:A:VAL:HG12	1:204:A:VAL:H	13	0.34
(1,2024)	1:204:A:VAL:HG13	1:204:A:VAL:H	13	0.34
(1,1030)	1:116:A:HIS:HB2	1:115:A:HIS:HB3	4	0.34
(1,1030)	1:116:A:HIS:HB2	1:115:A:HIS:HB3	18	0.34
(1,1026)	1:106:A:LYS:HE3	1:105:A:LEU:H	14	0.34
(1,942)	1:205:A:ASP:HB3	1:206:A:HIS:H	3	0.34
(1,942)	1:205:A:ASP:HB3	1:206:A:HIS:H	8	0.34
(1,886)	1:122:A:LEU:HB2	1:123:A:GLY:H	15	0.34
(1,546)	1:179:A:TYR:HD1	1:176:A:ASN:H	20	0.34
(1,546)	1:179:A:TYR:HD2	1:176:A:ASN:H	20	0.34
(1,545)	1:172:A:THR:H	1:170:A:THR:HG21	9	0.34
(1,545)	1:172:A:THR:H	1:170:A:THR:HG22	9	0.34
(1,545)	1:172:A:THR:H	1:170:A:THR:HG23	9	0.34
(1,529)	1:133:A:THR:HG21	1:129:A:ASP:H	7	0.34
(1,529)	1:133:A:THR:HG22	1:129:A:ASP:H	7	0.34
(1,529)	1:133:A:THR:HG23	1:129:A:ASP:H	7	0.34
(1,529)	1:133:A:THR:HG21	1:129:A:ASP:H	14	0.34
(1,529)	1:133:A:THR:HG22	1:129:A:ASP:H	14	0.34
(1,529)	1:133:A:THR:HG23	1:129:A:ASP:H	14	0.34
(1,520)	1:113:A:LEU:HB3	1:111:A:ARG:HG3	4	0.34
(1,520)	1:113:A:LEU:HB3	1:111:A:ARG:HG3	20	0.34
(1,502)	1:60:A:LEU:HD21	1:57:A:VAL:HA	15	0.34
(1,502)	1:60:A:LEU:HD22	1:57:A:VAL:HA	15	0.34
(1,502)	1:60:A:LEU:HD23	1:57:A:VAL:HA	15	0.34
(1,433)	1:26:A:ASP:HA	1:28:A:ALA:H	3	0.34
(1,433)	1:26:A:ASP:HA	1:28:A:ALA:H	18	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,403)	1:176:A:ASN:HA	1:180:A:LYS:H	11	0.34
(1,333)	1:233:A:LEU:HD21	1:202:A:GLN:HE21	1	0.34
(1,333)	1:233:A:LEU:HD22	1:202:A:GLN:HE21	1	0.34
(1,333)	1:233:A:LEU:HD23	1:202:A:GLN:HE21	1	0.34
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG11	12	0.34
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG12	12	0.34
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG13	12	0.34
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD11	5	0.34
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD12	5	0.34
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD13	5	0.34
(1,162)	1:115:A:HIS:HB2	1:96:A:GLN:HA	2	0.34
(1,150)	1:113:A:LEU:HD21	1:85:A:VAL:H	13	0.34
(1,150)	1:113:A:LEU:HD22	1:85:A:VAL:H	13	0.34
(1,150)	1:113:A:LEU:HD23	1:85:A:VAL:H	13	0.34
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG11	7	0.34
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG12	7	0.34
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG13	7	0.34
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG11	9	0.34
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG12	9	0.34
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG13	9	0.34
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG11	18	0.34
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG12	18	0.34
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG13	18	0.34
(1,69)	1:210:A:ALA:H	1:226:A:PHE:HA	20	0.34
(1,54)	1:141:A:GLY:H	1:168:A:LEU:HA	5	0.34
(1,54)	1:141:A:GLY:H	1:168:A:LEU:HA	9	0.34
(5,9)	1:222:A:ALA:H	1:218:A:LEU:O	6	0.33
(5,7)	1:206:A:HIS:H	1:229:A:GLY:O	15	0.33
(4,225)	1:236:A:LYS:H	1:164:A:GLY:O	2	0.33
(4,200)	1:196:A:TRP:N	1:190:A:LEU:O	20	0.33
(4,199)	1:196:A:TRP:H	1:190:A:LEU:O	9	0.33
(4,122)	1:123:A:GLY:N	1:125:A:GLU:O	16	0.33
(4,55)	1:72:A:LEU:H	1:135:A:ASP:OD1	17	0.33
(4,43)	1:60:A:LEU:H	1:56:A:ALA:O	18	0.33
(2,104)	1:228:A:SER:HB2	1:173:A:ASN:HD21	13	0.33
(2,104)	1:228:A:SER:HB2	1:173:A:ASN:HD22	13	0.33
(2,104)	1:228:A:SER:HB3	1:173:A:ASN:HD21	13	0.33
(2,104)	1:228:A:SER:HB3	1:173:A:ASN:HD22	13	0.33
(2,87)	1:160:A:THR:HA	1:129:A:ASP:HB2	4	0.33
(2,87)	1:160:A:THR:HA	1:129:A:ASP:HB2	19	0.33
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD11	6	0.33
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD12	6	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD13	6	0.33
(1,1492)	1:238:A:GLU:HB3	1:238:A:GLU:H	20	0.33
(1,1377)	1:96:A:GLN:HB3	1:96:A:GLN:H	3	0.33
(1,1118)	1:238:A:GLU:H	1:237:A:GLN:HG2	11	0.33
(1,1118)	1:238:A:GLU:H	1:237:A:GLN:HG2	13	0.33
(1,1082)	1:184:A:GLU:HG2	1:183:A:LEU:HG	8	0.33
(1,1051)	1:137:A:VAL:HG11	1:136:A:ALA:H	12	0.33
(1,1051)	1:137:A:VAL:HG12	1:136:A:ALA:H	12	0.33
(1,1051)	1:137:A:VAL:HG13	1:136:A:ALA:H	12	0.33
(1,1030)	1:116:A:HIS:HB2	1:115:A:HIS:HB3	10	0.33
(1,1026)	1:106:A:LYS:HE3	1:105:A:LEU:H	3	0.33
(1,963)	1:238:A:GLU:HB2	1:239:A:THR:H	5	0.33
(1,963)	1:238:A:GLU:HB2	1:239:A:THR:H	11	0.33
(1,893)	1:134:A:PHE:HB2	1:135:A:ASP:H	16	0.33
(1,879)	1:115:A:HIS:HB3	1:116:A:HIS:H	3	0.33
(1,546)	1:179:A:TYR:HD1	1:176:A:ASN:H	11	0.33
(1,546)	1:179:A:TYR:HD2	1:176:A:ASN:H	11	0.33
(1,545)	1:172:A:THR:H	1:170:A:THR:HG21	10	0.33
(1,545)	1:172:A:THR:H	1:170:A:THR:HG22	10	0.33
(1,545)	1:172:A:THR:H	1:170:A:THR:HG23	10	0.33
(1,520)	1:113:A:LEU:HB3	1:111:A:ARG:HG3	11	0.33
(1,494)	1:14:A:VAL:H	1:11:A:LEU:HD11	15	0.33
(1,494)	1:14:A:VAL:H	1:11:A:LEU:HD12	15	0.33
(1,494)	1:14:A:VAL:H	1:11:A:LEU:HD13	15	0.33
(1,354)	1:238:A:GLU:HG2	1:163:A:GLY:HA2	9	0.33
(1,354)	1:238:A:GLU:HG3	1:163:A:GLY:HA2	9	0.33
(1,354)	1:238:A:GLU:HG2	1:163:A:GLY:HA2	12	0.33
(1,354)	1:238:A:GLU:HG3	1:163:A:GLY:HA2	12	0.33
(1,354)	1:238:A:GLU:HG2	1:163:A:GLY:HA2	16	0.33
(1,354)	1:238:A:GLU:HG3	1:163:A:GLY:HA2	16	0.33
(1,312)	1:229:A:GLY:H	1:172:A:THR:HB	17	0.33
(1,311)	1:228:A:SER:HA	1:174:A:PRO:HD2	15	0.33
(1,258)	1:166:A:VAL:HG11	1:157:A:LEU:HA	9	0.33
(1,258)	1:166:A:VAL:HG12	1:157:A:LEU:HA	9	0.33
(1,258)	1:166:A:VAL:HG13	1:157:A:LEU:HA	9	0.33
(1,250)	1:159:A:VAL:HG21	1:133:A:THR:HB	10	0.33
(1,250)	1:159:A:VAL:HG22	1:133:A:THR:HB	10	0.33
(1,250)	1:159:A:VAL:HG23	1:133:A:THR:HB	10	0.33
(1,247)	1:159:A:VAL:HA	1:131:A:GLU:HG3	2	0.33
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD11	20	0.33
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD12	20	0.33
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD13	20	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,176)	1:118:A:SER:HB3	1:98:A:VAL:HA	3	0.33
(1,162)	1:115:A:HIS:HB2	1:96:A:GLN:HA	9	0.33
(1,162)	1:115:A:HIS:HB2	1:96:A:GLN:HA	14	0.33
(1,129)	1:99:A:ASP:HB3	1:79:A:GLY:H	12	0.33
(1,81)	1:27:A:LEU:HD11	1:17:A:ARG:HD2	8	0.33
(1,81)	1:27:A:LEU:HD12	1:17:A:ARG:HD2	8	0.33
(1,81)	1:27:A:LEU:HD13	1:17:A:ARG:HD2	8	0.33
(1,69)	1:210:A:ALA:H	1:226:A:PHE:HA	2	0.33
(4,213)	1:229:A:GLY:H	1:170:A:THR:O	10	0.32
(4,211)	1:225:A:GLY:H	1:210:A:ALA:O	20	0.32
(4,165)	1:169:A:THR:H	1:139:A:ILE:O	13	0.32
(4,119)	1:120:A:CYS:H	1:99:A:ASP:O	20	0.32
(4,111)	1:113:A:LEU:H	1:108:A:ALA:O	7	0.32
(4,111)	1:113:A:LEU:H	1:108:A:ALA:O	14	0.32
(4,111)	1:113:A:LEU:H	1:108:A:ALA:O	20	0.32
(4,89)	1:94:A:GLN:H	1:68:A:PRO:O	13	0.32
(4,89)	1:94:A:GLN:H	1:68:A:PRO:O	19	0.32
(2,198)	1:206:A:HIS:HB2	1:204:A:VAL:HG11	9	0.32
(2,198)	1:206:A:HIS:HB2	1:204:A:VAL:HG12	9	0.32
(2,198)	1:206:A:HIS:HB2	1:204:A:VAL:HG13	9	0.32
(2,194)	1:183:A:LEU:HG	1:181:A:GLU:H	5	0.32
(2,162)	1:153:A:ILE:H	1:149:A:PRO:HB3	7	0.32
(2,162)	1:153:A:ILE:H	1:149:A:PRO:HB3	8	0.32
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD21	19	0.32
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD22	19	0.32
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD23	19	0.32
(1,2034)	1:226:A:PHE:HA	1:226:A:PHE:HD1	12	0.32
(1,2034)	1:226:A:PHE:HA	1:226:A:PHE:HD1	18	0.32
(1,1668)	1:43:A:GLN:HG2	1:43:A:GLN:H	2	0.32
(1,1377)	1:96:A:GLN:HB3	1:96:A:GLN:H	16	0.32
(1,1357)	1:75:A:ASP:HB3	1:75:A:ASP:H	3	0.32
(1,1118)	1:238:A:GLU:H	1:237:A:GLN:HG2	18	0.32
(1,1118)	1:238:A:GLU:H	1:237:A:GLN:HG2	19	0.32
(1,1102)	1:203:A:PRO:HD3	1:202:A:GLN:HE21	19	0.32
(1,1082)	1:184:A:GLU:HG2	1:183:A:LEU:HG	1	0.32
(1,1082)	1:184:A:GLU:HG2	1:183:A:LEU:HG	20	0.32
(1,1065)	1:154:A:PRO:HD3	1:153:A:ILE:HG13	3	0.32
(1,1046)	1:132:A:GLY:H	1:131:A:GLU:HG3	18	0.32
(1,1026)	1:106:A:LYS:HE3	1:105:A:LEU:H	11	0.32
(1,1026)	1:106:A:LYS:HE3	1:105:A:LEU:H	12	0.32
(1,1026)	1:106:A:LYS:HE3	1:105:A:LEU:H	13	0.32
(1,1026)	1:106:A:LYS:HE3	1:105:A:LEU:H	19	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1026)	1:106:A:LYS:HE3	1:105:A:LEU:H	20	0.32
(1,893)	1:134:A:PHE:HB2	1:135:A:ASP:H	1	0.32
(1,893)	1:134:A:PHE:HB2	1:135:A:ASP:H	5	0.32
(1,893)	1:134:A:PHE:HB2	1:135:A:ASP:H	10	0.32
(1,864)	1:88:A:GLN:HB2	1:89:A:ALA:H	20	0.32
(1,557)	1:232:A:TYR:H	1:230:A:ILE:HG21	20	0.32
(1,557)	1:232:A:TYR:H	1:230:A:ILE:HG22	20	0.32
(1,557)	1:232:A:TYR:H	1:230:A:ILE:HG23	20	0.32
(1,545)	1:172:A:THR:H	1:170:A:THR:HG21	7	0.32
(1,545)	1:172:A:THR:H	1:170:A:THR:HG22	7	0.32
(1,545)	1:172:A:THR:H	1:170:A:THR:HG23	7	0.32
(1,529)	1:133:A:THR:HG21	1:129:A:ASP:H	4	0.32
(1,529)	1:133:A:THR:HG22	1:129:A:ASP:H	4	0.32
(1,529)	1:133:A:THR:HG23	1:129:A:ASP:H	4	0.32
(1,520)	1:113:A:LEU:HB3	1:111:A:ARG:HG3	10	0.32
(1,520)	1:113:A:LEU:HB3	1:111:A:ARG:HG3	13	0.32
(1,515)	1:106:A:LYS:HE2	1:102:A:PRO:HB2	3	0.32
(1,515)	1:106:A:LYS:HE2	1:102:A:PRO:HB3	3	0.32
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG11	3	0.32
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG12	3	0.32
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG13	3	0.32
(1,433)	1:26:A:ASP:HA	1:28:A:ALA:H	15	0.32
(1,354)	1:238:A:GLU:HG2	1:163:A:GLY:HA2	10	0.32
(1,354)	1:238:A:GLU:HG3	1:163:A:GLY:HA2	10	0.32
(1,354)	1:238:A:GLU:HG2	1:163:A:GLY:HA2	14	0.32
(1,354)	1:238:A:GLU:HG3	1:163:A:GLY:HA2	14	0.32
(1,316)	1:231:A:ILE:HD11	1:52:A:ALA:H	3	0.32
(1,316)	1:231:A:ILE:HD12	1:52:A:ALA:H	3	0.32
(1,316)	1:231:A:ILE:HD13	1:52:A:ALA:H	3	0.32
(1,313)	1:229:A:GLY:H	1:204:A:VAL:HG11	5	0.32
(1,313)	1:229:A:GLY:H	1:204:A:VAL:HG12	5	0.32
(1,313)	1:229:A:GLY:H	1:204:A:VAL:HG13	5	0.32
(1,313)	1:229:A:GLY:H	1:204:A:VAL:HG11	9	0.32
(1,313)	1:229:A:GLY:H	1:204:A:VAL:HG12	9	0.32
(1,313)	1:229:A:GLY:H	1:204:A:VAL:HG13	9	0.32
(1,305)	1:226:A:PHE:HD1	1:210:A:ALA:H	6	0.32
(1,305)	1:226:A:PHE:HD2	1:210:A:ALA:H	6	0.32
(1,305)	1:226:A:PHE:HD1	1:210:A:ALA:H	7	0.32
(1,305)	1:226:A:PHE:HD2	1:210:A:ALA:H	7	0.32
(1,305)	1:226:A:PHE:HD1	1:210:A:ALA:H	18	0.32
(1,305)	1:226:A:PHE:HD2	1:210:A:ALA:H	18	0.32
(1,262)	1:167:A:CYS:HB2	1:138:A:ILE:HG12	7	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,262)	1:167:A:CYS:HB2	1:138:A:ILE:HG12	15	0.32
(1,262)	1:167:A:CYS:HB2	1:138:A:ILE:HG12	18	0.32
(1,258)	1:166:A:VAL:HG11	1:157:A:LEU:HA	7	0.32
(1,258)	1:166:A:VAL:HG12	1:157:A:LEU:HA	7	0.32
(1,258)	1:166:A:VAL:HG13	1:157:A:LEU:HA	7	0.32
(1,248)	1:159:A:VAL:HG21	1:132:A:GLY:H	9	0.32
(1,248)	1:159:A:VAL:HG22	1:132:A:GLY:H	9	0.32
(1,248)	1:159:A:VAL:HG23	1:132:A:GLY:H	9	0.32
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG11	4	0.32
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG12	4	0.32
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG13	4	0.32
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG11	5	0.32
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG12	5	0.32
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG13	5	0.32
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD11	6	0.32
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD12	6	0.32
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD13	6	0.32
(1,200)	1:129:A:ASP:HB3	1:74:A:LEU:HD21	5	0.32
(1,200)	1:129:A:ASP:HB3	1:74:A:LEU:HD22	5	0.32
(1,200)	1:129:A:ASP:HB3	1:74:A:LEU:HD23	5	0.32
(1,154)	1:114:A:TYR:HE1	1:97:A:GLY:H	17	0.32
(1,154)	1:114:A:TYR:HE2	1:97:A:GLY:H	17	0.32
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG11	4	0.32
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG12	4	0.32
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG13	4	0.32
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG11	19	0.32
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG12	19	0.32
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG13	19	0.32
(1,18)	1:229:A:GLY:H	1:170:A:THR:H	5	0.32
(5,11)	1:223:A:ASN:H	1:219:A:GLY:O	20	0.31
(5,7)	1:206:A:HIS:H	1:229:A:GLY:O	13	0.31
(4,217)	1:231:A:ILE:H	1:202:A:GLN:O	19	0.31
(4,213)	1:229:A:GLY:H	1:170:A:THR:O	4	0.31
(4,200)	1:196:A:TRP:N	1:190:A:LEU:O	9	0.31
(4,199)	1:196:A:TRP:H	1:190:A:LEU:O	16	0.31
(4,138)	1:140:A:VAL:N	1:78:A:CYS:O	12	0.31
(4,137)	1:140:A:VAL:H	1:78:A:CYS:O	15	0.31
(4,122)	1:123:A:GLY:N	1:125:A:GLU:O	19	0.31
(4,119)	1:120:A:CYS:H	1:99:A:ASP:O	5	0.31
(4,113)	1:114:A:TYR:H	1:108:A:ALA:O	10	0.31
(4,89)	1:94:A:GLN:H	1:68:A:PRO:O	9	0.31
(4,69)	1:81:A:GLY:H	1:107:A:GLN:OE1	3	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,51)	1:69:A:HIS:H	1:67:A:SER:O	20	0.31
(2,194)	1:183:A:LEU:HG	1:181:A:GLU:H	10	0.31
(2,66)	1:122:A:LEU:HD21	1:16:A:ALA:H	6	0.31
(2,66)	1:122:A:LEU:HD22	1:16:A:ALA:H	6	0.31
(2,66)	1:122:A:LEU:HD23	1:16:A:ALA:H	6	0.31
(2,66)	1:122:A:LEU:HD21	1:16:A:ALA:H	15	0.31
(2,66)	1:122:A:LEU:HD22	1:16:A:ALA:H	15	0.31
(2,66)	1:122:A:LEU:HD23	1:16:A:ALA:H	15	0.31
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD11	1	0.31
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD12	1	0.31
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD13	1	0.31
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD11	3	0.31
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD12	3	0.31
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD13	3	0.31
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD11	14	0.31
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD12	14	0.31
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD13	14	0.31
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD11	18	0.31
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD12	18	0.31
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD13	18	0.31
(1,2090)	2:300:A:SAH:HG1	1:35:A:ASP:H	7	0.31
(1,2090)	2:300:A:SAH:HG2	1:35:A:ASP:H	7	0.31
(1,2090)	2:300:A:SAH:HG1	1:35:A:ASP:H	14	0.31
(1,2090)	2:300:A:SAH:HG2	1:35:A:ASP:H	14	0.31
(1,2089)	2:300:A:SAH:HG1	1:35:A:ASP:H	7	0.31
(1,2089)	2:300:A:SAH:HG2	1:35:A:ASP:H	7	0.31
(1,2089)	2:300:A:SAH:HG1	1:35:A:ASP:H	14	0.31
(1,2089)	2:300:A:SAH:HG2	1:35:A:ASP:H	14	0.31
(1,2034)	1:226:A:PHE:HA	1:226:A:PHE:HD1	4	0.31
(1,1357)	1:75:A:ASP:HB3	1:75:A:ASP:H	15	0.31
(1,1065)	1:154:A:PRO:HD3	1:153:A:ILE:HG13	7	0.31
(1,1046)	1:132:A:GLY:H	1:131:A:GLU:HG3	7	0.31
(1,1046)	1:132:A:GLY:H	1:131:A:GLU:HG3	8	0.31
(1,1046)	1:132:A:GLY:H	1:131:A:GLU:HG3	10	0.31
(1,1030)	1:116:A:HIS:HB2	1:115:A:HIS:HB3	1	0.31
(1,1026)	1:106:A:LYS:HE3	1:105:A:LEU:H	1	0.31
(1,942)	1:205:A:ASP:HB3	1:206:A:HIS:H	13	0.31
(1,886)	1:122:A:LEU:HB2	1:123:A:GLY:H	8	0.31
(1,864)	1:88:A:GLN:HB2	1:89:A:ALA:H	7	0.31
(1,864)	1:88:A:GLN:HB2	1:89:A:ALA:H	14	0.31
(1,557)	1:232:A:TYR:H	1:230:A:ILE:HG21	9	0.31
(1,557)	1:232:A:TYR:H	1:230:A:ILE:HG22	9	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,557)	1:232:A:TYR:H	1:230:A:ILE:HG23	9	0.31
(1,546)	1:179:A:TYR:HD1	1:176:A:ASN:H	8	0.31
(1,546)	1:179:A:TYR:HD2	1:176:A:ASN:H	8	0.31
(1,531)	1:133:A:THR:HG21	1:129:A:ASP:HB2	4	0.31
(1,531)	1:133:A:THR:HG22	1:129:A:ASP:HB2	4	0.31
(1,531)	1:133:A:THR:HG23	1:129:A:ASP:HB2	4	0.31
(1,502)	1:60:A:LEU:HD21	1:57:A:VAL:HA	1	0.31
(1,502)	1:60:A:LEU:HD22	1:57:A:VAL:HA	1	0.31
(1,502)	1:60:A:LEU:HD23	1:57:A:VAL:HA	1	0.31
(1,502)	1:60:A:LEU:HD21	1:57:A:VAL:HA	13	0.31
(1,502)	1:60:A:LEU:HD22	1:57:A:VAL:HA	13	0.31
(1,502)	1:60:A:LEU:HD23	1:57:A:VAL:HA	13	0.31
(1,433)	1:26:A:ASP:HA	1:28:A:ALA:H	6	0.31
(1,308)	1:227:A:ILE:HD11	1:173:A:ASN:H	15	0.31
(1,308)	1:227:A:ILE:HD12	1:173:A:ASN:H	15	0.31
(1,308)	1:227:A:ILE:HD13	1:173:A:ASN:H	15	0.31
(1,237)	1:149:A:PRO:HB3	1:123:A:GLY:HA3	20	0.31
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG11	11	0.31
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG12	11	0.31
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG13	11	0.31
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG11	13	0.31
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG12	13	0.31
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG13	13	0.31
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD11	3	0.31
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD12	3	0.31
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD13	3	0.31
(1,200)	1:129:A:ASP:HB3	1:74:A:LEU:HD21	7	0.31
(1,200)	1:129:A:ASP:HB3	1:74:A:LEU:HD22	7	0.31
(1,200)	1:129:A:ASP:HB3	1:74:A:LEU:HD23	7	0.31
(1,162)	1:115:A:HIS:HB2	1:96:A:GLN:HA	12	0.31
(1,129)	1:99:A:ASP:HB3	1:79:A:GLY:H	11	0.31
(1,124)	1:96:A:GLN:H	1:74:A:LEU:HD21	10	0.31
(1,124)	1:96:A:GLN:H	1:74:A:LEU:HD22	10	0.31
(1,124)	1:96:A:GLN:H	1:74:A:LEU:HD23	10	0.31
(1,94)	1:90:A:ARG:H	1:57:A:VAL:HG21	5	0.31
(1,94)	1:90:A:ARG:H	1:57:A:VAL:HG22	5	0.31
(1,94)	1:90:A:ARG:H	1:57:A:VAL:HG23	5	0.31
(1,79)	1:232:A:TYR:HA	1:201:A:THR:HA	12	0.31
(5,15)	1:101:A:SER:H	2:300:A:SAH:O2'	11	0.3
(5,9)	1:222:A:ALA:H	1:219:A:GLY:O	17	0.3
(5,3)	1:92:A:PHE:H	1:87:A:LEU:O	12	0.3
(4,213)	1:229:A:GLY:H	1:170:A:THR:O	3	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,213)	1:229:A:GLY:H	1:170:A:THR:O	20	0.3
(4,211)	1:225:A:GLY:H	1:210:A:ALA:O	9	0.3
(4,200)	1:196:A:TRP:N	1:190:A:LEU:O	3	0.3
(4,200)	1:196:A:TRP:N	1:190:A:LEU:O	7	0.3
(4,200)	1:196:A:TRP:N	1:190:A:LEU:O	15	0.3
(4,199)	1:196:A:TRP:H	1:190:A:LEU:O	5	0.3
(4,199)	1:196:A:TRP:H	1:190:A:LEU:O	18	0.3
(4,199)	1:196:A:TRP:H	1:190:A:LEU:O	19	0.3
(4,165)	1:169:A:THR:H	1:139:A:ILE:O	6	0.3
(4,120)	1:120:A:CYS:N	1:99:A:ASP:O	13	0.3
(4,111)	1:113:A:LEU:H	1:108:A:ALA:O	16	0.3
(4,9)	1:11:A:LEU:H	1:146:A:GLY:O	8	0.3
(4,7)	1:9:A:GLY:H	1:5:A:GLN:O	10	0.3
(4,1)	1:6:A:GLU:H	1:2:A:ALA:O	20	0.3
(2,194)	1:183:A:LEU:HG	1:181:A:GLU:H	1	0.3
(2,192)	1:159:A:VAL:H	1:156:A:LEU:HD11	3	0.3
(2,192)	1:159:A:VAL:H	1:156:A:LEU:HD12	3	0.3
(2,192)	1:159:A:VAL:H	1:156:A:LEU:HD13	3	0.3
(2,107)	1:231:A:ILE:HG12	1:52:A:ALA:H	18	0.3
(2,87)	1:160:A:THR:HA	1:129:A:ASP:HB2	13	0.3
(2,66)	1:122:A:LEU:HD21	1:16:A:ALA:H	18	0.3
(2,66)	1:122:A:LEU:HD22	1:16:A:ALA:H	18	0.3
(2,66)	1:122:A:LEU:HD23	1:16:A:ALA:H	18	0.3
(2,41)	1:97:A:GLY:H	1:75:A:ASP:HB2	20	0.3
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD11	20	0.3
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD12	20	0.3
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD13	20	0.3
(1,1947)	1:177:A:LEU:HA	1:177:A:LEU:HD21	13	0.3
(1,1947)	1:177:A:LEU:HA	1:177:A:LEU:HD22	13	0.3
(1,1947)	1:177:A:LEU:HA	1:177:A:LEU:HD23	13	0.3
(1,1477)	1:226:A:PHE:HB2	1:226:A:PHE:H	13	0.3
(1,1377)	1:96:A:GLN:HB3	1:96:A:GLN:H	10	0.3
(1,1377)	1:96:A:GLN:HB3	1:96:A:GLN:H	19	0.3
(1,1082)	1:184:A:GLU:HG2	1:183:A:LEU:HG	12	0.3
(1,1082)	1:184:A:GLU:HG2	1:183:A:LEU:HG	14	0.3
(1,1046)	1:132:A:GLY:H	1:131:A:GLU:HG3	6	0.3
(1,1026)	1:106:A:LYS:HE3	1:105:A:LEU:H	5	0.3
(1,1026)	1:106:A:LYS:HE3	1:105:A:LEU:H	18	0.3
(1,1018)	1:94:A:GLN:HG2	1:93:A:LEU:H	16	0.3
(1,942)	1:205:A:ASP:HB3	1:206:A:HIS:H	2	0.3
(1,942)	1:205:A:ASP:HB3	1:206:A:HIS:H	11	0.3
(1,893)	1:134:A:PHE:HB2	1:135:A:ASP:H	4	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,886)	1:122:A:LEU:HB2	1:123:A:GLY:H	7	0.3
(1,886)	1:122:A:LEU:HB2	1:123:A:GLY:H	16	0.3
(1,886)	1:122:A:LEU:HB2	1:123:A:GLY:H	19	0.3
(1,864)	1:88:A:GLN:HB2	1:89:A:ALA:H	8	0.3
(1,557)	1:232:A:TYR:H	1:230:A:ILE:HG21	13	0.3
(1,557)	1:232:A:TYR:H	1:230:A:ILE:HG22	13	0.3
(1,557)	1:232:A:TYR:H	1:230:A:ILE:HG23	13	0.3
(1,546)	1:179:A:TYR:HD1	1:176:A:ASN:H	17	0.3
(1,546)	1:179:A:TYR:HD2	1:176:A:ASN:H	17	0.3
(1,545)	1:172:A:THR:H	1:170:A:THR:HG21	8	0.3
(1,545)	1:172:A:THR:H	1:170:A:THR:HG22	8	0.3
(1,545)	1:172:A:THR:H	1:170:A:THR:HG23	8	0.3
(1,520)	1:113:A:LEU:HB3	1:111:A:ARG:HG3	17	0.3
(1,518)	1:113:A:LEU:HD21	1:111:A:ARG:H	18	0.3
(1,518)	1:113:A:LEU:HD22	1:111:A:ARG:H	18	0.3
(1,518)	1:113:A:LEU:HD23	1:111:A:ARG:H	18	0.3
(1,403)	1:176:A:ASN:HA	1:180:A:LYS:H	1	0.3
(1,354)	1:238:A:GLU:HG2	1:163:A:GLY:HA2	7	0.3
(1,354)	1:238:A:GLU:HG3	1:163:A:GLY:HA2	7	0.3
(1,345)	1:236:A:LYS:HA	1:196:A:TRP:HB3	6	0.3
(1,311)	1:228:A:SER:HA	1:174:A:PRO:HD2	9	0.3
(1,307)	1:227:A:ILE:HG21	1:173:A:ASN:HA	16	0.3
(1,307)	1:227:A:ILE:HG22	1:173:A:ASN:HA	16	0.3
(1,307)	1:227:A:ILE:HG23	1:173:A:ASN:HA	16	0.3
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG11	6	0.3
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG12	6	0.3
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG13	6	0.3
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG11	16	0.3
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG12	16	0.3
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG13	16	0.3
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD11	3	0.3
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD12	3	0.3
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD13	3	0.3
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD11	16	0.3
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD12	16	0.3
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD13	16	0.3
(1,200)	1:129:A:ASP:HB3	1:74:A:LEU:HD21	4	0.3
(1,200)	1:129:A:ASP:HB3	1:74:A:LEU:HD22	4	0.3
(1,200)	1:129:A:ASP:HB3	1:74:A:LEU:HD23	4	0.3
(1,200)	1:129:A:ASP:HB3	1:74:A:LEU:HD21	19	0.3
(1,200)	1:129:A:ASP:HB3	1:74:A:LEU:HD22	19	0.3
(1,200)	1:129:A:ASP:HB3	1:74:A:LEU:HD23	19	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,162)	1:115:A:HIS:HB2	1:96:A:GLN:HA	11	0.3
(1,154)	1:114:A:TYR:HE1	1:97:A:GLY:H	1	0.3
(1,154)	1:114:A:TYR:HE2	1:97:A:GLY:H	1	0.3
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG11	15	0.3
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG12	15	0.3
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG13	15	0.3
(1,129)	1:99:A:ASP:HB3	1:79:A:GLY:H	16	0.3
(1,54)	1:141:A:GLY:H	1:168:A:LEU:HA	10	0.3
(1,18)	1:229:A:GLY:H	1:170:A:THR:H	17	0.3
(1,18)	1:229:A:GLY:H	1:170:A:THR:H	20	0.3
(5,13)	1:240:A:VAL:H	1:191:A:GLU:O	7	0.29
(5,7)	1:206:A:HIS:H	1:228:A:SER:O	14	0.29
(5,3)	1:92:A:PHE:H	1:87:A:LEU:O	5	0.29
(5,3)	1:92:A:PHE:H	1:87:A:LEU:O	8	0.29
(4,209)	1:219:A:GLY:H	1:216:A:THR:O	9	0.29
(4,200)	1:196:A:TRP:N	1:190:A:LEU:O	12	0.29
(4,200)	1:196:A:TRP:N	1:190:A:LEU:O	14	0.29
(4,199)	1:196:A:TRP:H	1:190:A:LEU:O	4	0.29
(4,165)	1:169:A:THR:H	1:139:A:ILE:O	14	0.29
(4,138)	1:140:A:VAL:N	1:78:A:CYS:O	8	0.29
(4,137)	1:140:A:VAL:H	1:78:A:CYS:O	18	0.29
(4,113)	1:114:A:TYR:H	1:108:A:ALA:O	20	0.29
(4,111)	1:113:A:LEU:H	1:108:A:ALA:O	4	0.29
(4,111)	1:113:A:LEU:H	1:108:A:ALA:O	17	0.29
(4,87)	1:93:A:LEU:H	1:68:A:PRO:O	18	0.29
(4,51)	1:69:A:HIS:H	1:67:A:SER:O	14	0.29
(4,51)	1:69:A:HIS:H	1:67:A:SER:O	18	0.29
(4,25)	1:38:A:ALA:H	1:34:A:TYR:O	2	0.29
(2,194)	1:183:A:LEU:HG	1:181:A:GLU:H	2	0.29
(2,186)	1:92:A:PHE:HD1	1:90:A:ARG:H	16	0.29
(2,158)	1:111:A:ARG:H	1:113:A:LEU:HB3	10	0.29
(2,98)	1:210:A:ALA:HB1	1:177:A:LEU:HA	10	0.29
(2,98)	1:210:A:ALA:HB2	1:177:A:LEU:HA	10	0.29
(2,98)	1:210:A:ALA:HB3	1:177:A:LEU:HA	10	0.29
(2,87)	1:160:A:THR:HA	1:129:A:ASP:HB2	7	0.29
(2,87)	1:160:A:THR:HA	1:129:A:ASP:HB2	10	0.29
(2,41)	1:97:A:GLY:H	1:75:A:ASP:HB2	18	0.29
(2,19)	1:91:A:GLY:H	1:57:A:VAL:HG21	15	0.29
(2,19)	1:91:A:GLY:H	1:57:A:VAL:HG22	15	0.29
(2,19)	1:91:A:GLY:H	1:57:A:VAL:HG23	15	0.29
(1,1902)	1:156:A:LEU:H	1:156:A:LEU:HD11	17	0.29
(1,1902)	1:156:A:LEU:H	1:156:A:LEU:HD12	17	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1902)	1:156:A:LEU:H	1:156:A:LEU:HD13	17	0.29
(1,1872)	1:139:A:ILE:HG21	1:139:A:ILE:H	7	0.29
(1,1872)	1:139:A:ILE:HG22	1:139:A:ILE:H	7	0.29
(1,1872)	1:139:A:ILE:HG23	1:139:A:ILE:H	7	0.29
(1,1809)	1:106:A:LYS:HD2	1:106:A:LYS:H	17	0.29
(1,1377)	1:96:A:GLN:HB3	1:96:A:GLN:H	6	0.29
(1,1377)	1:96:A:GLN:HB3	1:96:A:GLN:H	18	0.29
(1,1357)	1:75:A:ASP:HB3	1:75:A:ASP:H	9	0.29
(1,1118)	1:238:A:GLU:H	1:237:A:GLN:HG2	17	0.29
(1,1018)	1:94:A:GLN:HG2	1:93:A:LEU:H	6	0.29
(1,886)	1:122:A:LEU:HB2	1:123:A:GLY:H	9	0.29
(1,886)	1:122:A:LEU:HB2	1:123:A:GLY:H	18	0.29
(1,884)	1:118:A:SER:HB3	1:119:A:LEU:H	18	0.29
(1,879)	1:115:A:HIS:HB3	1:116:A:HIS:H	5	0.29
(1,879)	1:115:A:HIS:HB3	1:116:A:HIS:H	15	0.29
(1,864)	1:88:A:GLN:HB2	1:89:A:ALA:H	11	0.29
(1,557)	1:232:A:TYR:H	1:230:A:ILE:HG21	6	0.29
(1,557)	1:232:A:TYR:H	1:230:A:ILE:HG22	6	0.29
(1,557)	1:232:A:TYR:H	1:230:A:ILE:HG23	6	0.29
(1,546)	1:179:A:TYR:HD1	1:176:A:ASN:H	2	0.29
(1,546)	1:179:A:TYR:HD2	1:176:A:ASN:H	2	0.29
(1,502)	1:60:A:LEU:HD21	1:57:A:VAL:HA	18	0.29
(1,502)	1:60:A:LEU:HD22	1:57:A:VAL:HA	18	0.29
(1,502)	1:60:A:LEU:HD23	1:57:A:VAL:HA	18	0.29
(1,406)	1:10:A:ARG:HA	1:13:A:GLN:H	1	0.29
(1,403)	1:176:A:ASN:HA	1:180:A:LYS:H	18	0.29
(1,345)	1:236:A:LYS:HA	1:196:A:TRP:HB3	19	0.29
(1,328)	1:232:A:TYR:HE1	1:187:A:LEU:HD11	13	0.29
(1,328)	1:232:A:TYR:HE1	1:187:A:LEU:HD12	13	0.29
(1,328)	1:232:A:TYR:HE1	1:187:A:LEU:HD13	13	0.29
(1,328)	1:232:A:TYR:HE2	1:187:A:LEU:HD11	13	0.29
(1,328)	1:232:A:TYR:HE2	1:187:A:LEU:HD12	13	0.29
(1,328)	1:232:A:TYR:HE2	1:187:A:LEU:HD13	13	0.29
(1,308)	1:227:A:ILE:HD11	1:173:A:ASN:H	7	0.29
(1,308)	1:227:A:ILE:HD12	1:173:A:ASN:H	7	0.29
(1,308)	1:227:A:ILE:HD13	1:173:A:ASN:H	7	0.29
(1,262)	1:167:A:CYS:HB2	1:138:A:ILE:HG12	17	0.29
(1,258)	1:166:A:VAL:HG11	1:157:A:LEU:HA	15	0.29
(1,258)	1:166:A:VAL:HG12	1:157:A:LEU:HA	15	0.29
(1,258)	1:166:A:VAL:HG13	1:157:A:LEU:HA	15	0.29
(1,248)	1:159:A:VAL:HG21	1:132:A:GLY:H	16	0.29
(1,248)	1:159:A:VAL:HG22	1:132:A:GLY:H	16	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,248)	1:159:A:VAL:HG23	1:132:A:GLY:H	16	0.29
(1,247)	1:159:A:VAL:HA	1:131:A:GLU:HG3	16	0.29
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG11	5	0.29
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG12	5	0.29
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG13	5	0.29
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG11	5	0.29
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG12	5	0.29
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG13	5	0.29
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG11	5	0.29
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG12	5	0.29
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG13	5	0.29
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG11	2	0.29
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG12	2	0.29
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG13	2	0.29
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG11	19	0.29
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG12	19	0.29
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG13	19	0.29
(1,197)	1:122:A:LEU:HD11	1:16:A:ALA:H	17	0.29
(1,197)	1:122:A:LEU:HD12	1:16:A:ALA:H	17	0.29
(1,197)	1:122:A:LEU:HD13	1:16:A:ALA:H	17	0.29
(1,150)	1:113:A:LEU:HD21	1:85:A:VAL:H	14	0.29
(1,150)	1:113:A:LEU:HD22	1:85:A:VAL:H	14	0.29
(1,150)	1:113:A:LEU:HD23	1:85:A:VAL:H	14	0.29
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG11	13	0.29
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG12	13	0.29
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG13	13	0.29
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG11	14	0.29
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG12	14	0.29
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG13	14	0.29
(1,100)	1:92:A:PHE:HE1	1:68:A:PRO:HB2	16	0.29
(1,40)	1:100:A:GLY:H	1:121:A:THR:HA	9	0.29
(1,18)	1:229:A:GLY:H	1:170:A:THR:H	3	0.29
(5,12)	1:223:A:ASN:N	1:219:A:GLY:O	20	0.28
(4,200)	1:196:A:TRP:N	1:190:A:LEU:O	16	0.28
(4,200)	1:196:A:TRP:N	1:190:A:LEU:O	17	0.28
(4,200)	1:196:A:TRP:N	1:190:A:LEU:O	18	0.28
(4,122)	1:123:A:GLY:N	1:125:A:GLU:O	2	0.28
(4,122)	1:123:A:GLY:N	1:125:A:GLU:O	14	0.28
(4,120)	1:120:A:CYS:N	1:99:A:ASP:O	8	0.28
(4,114)	1:114:A:TYR:N	1:108:A:ALA:O	10	0.28
(4,113)	1:114:A:TYR:H	1:108:A:ALA:O	3	0.28
(4,112)	1:113:A:LEU:N	1:108:A:ALA:O	10	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,111)	1:113:A:LEU:H	1:108:A:ALA:O	2	0.28
(4,111)	1:113:A:LEU:H	1:108:A:ALA:O	15	0.28
(4,111)	1:113:A:LEU:H	1:108:A:ALA:O	18	0.28
(4,89)	1:94:A:GLN:H	1:68:A:PRO:O	6	0.28
(4,65)	1:79:A:GLY:H	1:77:A:ALA:O	16	0.28
(4,55)	1:72:A:LEU:H	1:135:A:ASP:OD1	6	0.28
(2,198)	1:206:A:HIS:HB2	1:204:A:VAL:HG11	5	0.28
(2,198)	1:206:A:HIS:HB2	1:204:A:VAL:HG12	5	0.28
(2,198)	1:206:A:HIS:HB2	1:204:A:VAL:HG13	5	0.28
(2,194)	1:183:A:LEU:HG	1:181:A:GLU:H	17	0.28
(2,107)	1:231:A:ILE:HG12	1:52:A:ALA:H	5	0.28
(2,87)	1:160:A:THR:HA	1:129:A:ASP:HB2	8	0.28
(2,46)	1:109:A:ARG:H	1:99:A:ASP:HB2	17	0.28
(2,41)	1:97:A:GLY:H	1:75:A:ASP:HB2	17	0.28
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD11	15	0.28
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD12	15	0.28
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD13	15	0.28
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD21	7	0.28
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD22	7	0.28
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD23	7	0.28
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD21	14	0.28
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD22	14	0.28
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD23	14	0.28
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD21	18	0.28
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD22	18	0.28
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD23	18	0.28
(1,2040)	1:230:A:ILE:HG21	1:230:A:ILE:H	2	0.28
(1,2040)	1:230:A:ILE:HG22	1:230:A:ILE:H	2	0.28
(1,2040)	1:230:A:ILE:HG23	1:230:A:ILE:H	2	0.28
(1,1492)	1:238:A:GLU:HB3	1:238:A:GLU:H	2	0.28
(1,1478)	1:226:A:PHE:HB3	1:226:A:PHE:H	1	0.28
(1,1357)	1:75:A:ASP:HB3	1:75:A:ASP:H	6	0.28
(1,1082)	1:184:A:GLU:HG2	1:183:A:LEU:HG	5	0.28
(1,1082)	1:184:A:GLU:HG2	1:183:A:LEU:HG	15	0.28
(1,1030)	1:116:A:HIS:HB2	1:115:A:HIS:HB3	14	0.28
(1,1018)	1:94:A:GLN:HG2	1:93:A:LEU:H	9	0.28
(1,963)	1:238:A:GLU:HB2	1:239:A:THR:H	12	0.28
(1,942)	1:205:A:ASP:HB3	1:206:A:HIS:H	4	0.28
(1,942)	1:205:A:ASP:HB3	1:206:A:HIS:H	20	0.28
(1,893)	1:134:A:PHE:HB2	1:135:A:ASP:H	6	0.28
(1,886)	1:122:A:LEU:HB2	1:123:A:GLY:H	2	0.28
(1,886)	1:122:A:LEU:HB2	1:123:A:GLY:H	11	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,886)	1:122:A:LEU:HB2	1:123:A:GLY:H	14	0.28
(1,864)	1:88:A:GLN:HB2	1:89:A:ALA:H	1	0.28
(1,557)	1:232:A:TYR:H	1:230:A:ILE:HG21	16	0.28
(1,557)	1:232:A:TYR:H	1:230:A:ILE:HG22	16	0.28
(1,557)	1:232:A:TYR:H	1:230:A:ILE:HG23	16	0.28
(1,552)	1:196:A:TRP:HD1	1:192:A:ARG:H	3	0.28
(1,529)	1:133:A:THR:HG21	1:129:A:ASP:H	5	0.28
(1,529)	1:133:A:THR:HG22	1:129:A:ASP:H	5	0.28
(1,529)	1:133:A:THR:HG23	1:129:A:ASP:H	5	0.28
(1,520)	1:113:A:LEU:HB3	1:111:A:ARG:HG3	7	0.28
(1,403)	1:176:A:ASN:HA	1:180:A:LYS:H	17	0.28
(1,354)	1:238:A:GLU:HG2	1:163:A:GLY:HA2	19	0.28
(1,354)	1:238:A:GLU:HG3	1:163:A:GLY:HA2	19	0.28
(1,316)	1:231:A:ILE:HD11	1:52:A:ALA:H	17	0.28
(1,316)	1:231:A:ILE:HD12	1:52:A:ALA:H	17	0.28
(1,316)	1:231:A:ILE:HD13	1:52:A:ALA:H	17	0.28
(1,315)	1:230:A:ILE:H	1:172:A:THR:HG21	2	0.28
(1,315)	1:230:A:ILE:H	1:172:A:THR:HG22	2	0.28
(1,315)	1:230:A:ILE:H	1:172:A:THR:HG23	2	0.28
(1,314)	1:230:A:ILE:HG21	1:170:A:THR:H	19	0.28
(1,314)	1:230:A:ILE:HG22	1:170:A:THR:H	19	0.28
(1,314)	1:230:A:ILE:HG23	1:170:A:THR:H	19	0.28
(1,313)	1:229:A:GLY:H	1:204:A:VAL:HG11	18	0.28
(1,313)	1:229:A:GLY:H	1:204:A:VAL:HG12	18	0.28
(1,313)	1:229:A:GLY:H	1:204:A:VAL:HG13	18	0.28
(1,312)	1:229:A:GLY:H	1:172:A:THR:HB	14	0.28
(1,305)	1:226:A:PHE:HD1	1:210:A:ALA:H	13	0.28
(1,305)	1:226:A:PHE:HD2	1:210:A:ALA:H	13	0.28
(1,302)	1:226:A:PHE:HD1	1:177:A:LEU:HD21	13	0.28
(1,302)	1:226:A:PHE:HD1	1:177:A:LEU:HD22	13	0.28
(1,302)	1:226:A:PHE:HD1	1:177:A:LEU:HD23	13	0.28
(1,302)	1:226:A:PHE:HD2	1:177:A:LEU:HD21	13	0.28
(1,302)	1:226:A:PHE:HD2	1:177:A:LEU:HD22	13	0.28
(1,302)	1:226:A:PHE:HD2	1:177:A:LEU:HD23	13	0.28
(1,302)	1:226:A:PHE:HD1	1:177:A:LEU:HD21	15	0.28
(1,302)	1:226:A:PHE:HD1	1:177:A:LEU:HD22	15	0.28
(1,302)	1:226:A:PHE:HD1	1:177:A:LEU:HD23	15	0.28
(1,302)	1:226:A:PHE:HD2	1:177:A:LEU:HD21	15	0.28
(1,302)	1:226:A:PHE:HD2	1:177:A:LEU:HD22	15	0.28
(1,302)	1:226:A:PHE:HD2	1:177:A:LEU:HD23	15	0.28
(1,262)	1:167:A:CYS:HB2	1:138:A:ILE:HG12	2	0.28
(1,258)	1:166:A:VAL:HG11	1:157:A:LEU:HA	2	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,258)	1:166:A:VAL:HG12	1:157:A:LEU:HA	2	0.28
(1,258)	1:166:A:VAL:HG13	1:157:A:LEU:HA	2	0.28
(1,258)	1:166:A:VAL:HG11	1:157:A:LEU:HA	13	0.28
(1,258)	1:166:A:VAL:HG12	1:157:A:LEU:HA	13	0.28
(1,258)	1:166:A:VAL:HG13	1:157:A:LEU:HA	13	0.28
(1,248)	1:159:A:VAL:HG21	1:132:A:GLY:H	2	0.28
(1,248)	1:159:A:VAL:HG22	1:132:A:GLY:H	2	0.28
(1,248)	1:159:A:VAL:HG23	1:132:A:GLY:H	2	0.28
(1,248)	1:159:A:VAL:HG21	1:132:A:GLY:H	4	0.28
(1,248)	1:159:A:VAL:HG22	1:132:A:GLY:H	4	0.28
(1,248)	1:159:A:VAL:HG23	1:132:A:GLY:H	4	0.28
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG11	12	0.28
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG12	12	0.28
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG13	12	0.28
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG11	12	0.28
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG12	12	0.28
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG13	12	0.28
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG11	12	0.28
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG12	12	0.28
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG13	12	0.28
(1,237)	1:149:A:PRO:HB3	1:123:A:GLY:HA3	15	0.28
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG11	10	0.28
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG12	10	0.28
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG13	10	0.28
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD11	18	0.28
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD12	18	0.28
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD13	18	0.28
(1,194)	1:122:A:LEU:HB2	1:15:A:LEU:H	4	0.28
(1,194)	1:122:A:LEU:HB2	1:15:A:LEU:H	5	0.28
(1,178)	1:118:A:SER:HB2	1:98:A:VAL:HG11	19	0.28
(1,178)	1:118:A:SER:HB2	1:98:A:VAL:HG12	19	0.28
(1,178)	1:118:A:SER:HB2	1:98:A:VAL:HG13	19	0.28
(1,176)	1:118:A:SER:HB3	1:98:A:VAL:HA	17	0.28
(1,154)	1:114:A:TYR:HE1	1:97:A:GLY:H	2	0.28
(1,154)	1:114:A:TYR:HE2	1:97:A:GLY:H	2	0.28
(1,154)	1:114:A:TYR:HE1	1:97:A:GLY:H	3	0.28
(1,154)	1:114:A:TYR:HE2	1:97:A:GLY:H	3	0.28
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG11	17	0.28
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG12	17	0.28
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG13	17	0.28
(1,18)	1:229:A:GLY:H	1:170:A:THR:H	11	0.28
(4,225)	1:236:A:LYS:H	1:164:A:GLY:O	18	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,215)	1:230:A:ILE:H	1:170:A:THR:O	19	0.27
(4,213)	1:229:A:GLY:H	1:170:A:THR:O	5	0.27
(4,200)	1:196:A:TRP:N	1:190:A:LEU:O	1	0.27
(4,200)	1:196:A:TRP:N	1:190:A:LEU:O	8	0.27
(4,200)	1:196:A:TRP:N	1:190:A:LEU:O	19	0.27
(4,173)	1:182:A:THR:H	1:178:A:PRO:O	5	0.27
(4,173)	1:182:A:THR:H	1:178:A:PRO:O	6	0.27
(4,173)	1:182:A:THR:H	1:178:A:PRO:O	19	0.27
(4,165)	1:169:A:THR:H	1:139:A:ILE:O	19	0.27
(4,137)	1:140:A:VAL:H	1:78:A:CYS:O	1	0.27
(4,113)	1:114:A:TYR:H	1:108:A:ALA:O	1	0.27
(4,113)	1:114:A:TYR:H	1:108:A:ALA:O	14	0.27
(4,113)	1:114:A:TYR:H	1:108:A:ALA:O	17	0.27
(4,111)	1:113:A:LEU:H	1:108:A:ALA:O	13	0.27
(4,89)	1:94:A:GLN:H	1:68:A:PRO:O	18	0.27
(4,55)	1:72:A:LEU:H	1:135:A:ASP:OD1	13	0.27
(4,55)	1:72:A:LEU:H	1:135:A:ASP:OD1	14	0.27
(4,51)	1:69:A:HIS:H	1:67:A:SER:O	11	0.27
(2,162)	1:153:A:ILE:H	1:149:A:PRO:HB3	3	0.27
(2,107)	1:231:A:ILE:HG12	1:52:A:ALA:H	1	0.27
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD21	6	0.27
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD22	6	0.27
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD23	6	0.27
(1,2103)	2:300:A:SAH:H2	1:121:A:THR:HG21	20	0.27
(1,2103)	2:300:A:SAH:H2	1:121:A:THR:HG22	20	0.27
(1,2103)	2:300:A:SAH:H2	1:121:A:THR:HG23	20	0.27
(1,2086)	2:300:A:SAH:HA	1:35:A:ASP:HA	7	0.27
(1,2040)	1:230:A:ILE:HG21	1:230:A:ILE:H	19	0.27
(1,2040)	1:230:A:ILE:HG22	1:230:A:ILE:H	19	0.27
(1,2040)	1:230:A:ILE:HG23	1:230:A:ILE:H	19	0.27
(1,2034)	1:226:A:PHE:HA	1:226:A:PHE:HD1	14	0.27
(1,1645)	1:17:A:ARG:HD2	1:17:A:ARG:HA	15	0.27
(1,1112)	1:232:A:TYR:HB3	1:231:A:ILE:HD11	3	0.27
(1,1112)	1:232:A:TYR:HB3	1:231:A:ILE:HD12	3	0.27
(1,1112)	1:232:A:TYR:HB3	1:231:A:ILE:HD13	3	0.27
(1,1112)	1:232:A:TYR:HB3	1:231:A:ILE:HD11	12	0.27
(1,1112)	1:232:A:TYR:HB3	1:231:A:ILE:HD12	12	0.27
(1,1112)	1:232:A:TYR:HB3	1:231:A:ILE:HD13	12	0.27
(1,1094)	1:196:A:TRP:HE1	1:195:A:VAL:HG21	3	0.27
(1,1094)	1:196:A:TRP:HE1	1:195:A:VAL:HG22	3	0.27
(1,1094)	1:196:A:TRP:HE1	1:195:A:VAL:HG23	3	0.27
(1,1065)	1:154:A:PRO:HD3	1:153:A:ILE:HG13	10	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1046)	1:132:A:GLY:H	1:131:A:GLU:HG3	5	0.27
(1,1046)	1:132:A:GLY:H	1:131:A:GLU:HG3	15	0.27
(1,1036)	1:122:A:LEU:HD11	1:121:A:THR:H	19	0.27
(1,1036)	1:122:A:LEU:HD12	1:121:A:THR:H	19	0.27
(1,1036)	1:122:A:LEU:HD13	1:121:A:THR:H	19	0.27
(1,1026)	1:106:A:LYS:HE3	1:105:A:LEU:H	15	0.27
(1,1021)	1:97:A:GLY:H	1:96:A:GLN:HG2	19	0.27
(1,967)	1:18:A:VAL:HA	1:17:A:ARG:HG3	7	0.27
(1,886)	1:122:A:LEU:HB2	1:123:A:GLY:H	4	0.27
(1,886)	1:122:A:LEU:HB2	1:123:A:GLY:H	5	0.27
(1,864)	1:88:A:GLN:HB2	1:89:A:ALA:H	16	0.27
(1,850)	1:62:A:ARG:HB2	1:63:A:ALA:H	16	0.27
(1,829)	1:31:A:LEU:HB2	1:32:A:ARG:H	5	0.27
(1,546)	1:179:A:TYR:HD1	1:176:A:ASN:H	10	0.27
(1,546)	1:179:A:TYR:HD2	1:176:A:ASN:H	10	0.27
(1,515)	1:106:A:LYS:HE2	1:102:A:PRO:HB2	5	0.27
(1,515)	1:106:A:LYS:HE2	1:102:A:PRO:HB3	5	0.27
(1,507)	1:68:A:PRO:HA	1:64:A:PHE:HZ	8	0.27
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG11	13	0.27
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG12	13	0.27
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG13	13	0.27
(1,502)	1:60:A:LEU:HD21	1:57:A:VAL:HA	5	0.27
(1,502)	1:60:A:LEU:HD22	1:57:A:VAL:HA	5	0.27
(1,502)	1:60:A:LEU:HD23	1:57:A:VAL:HA	5	0.27
(1,502)	1:60:A:LEU:HD21	1:57:A:VAL:HA	9	0.27
(1,502)	1:60:A:LEU:HD22	1:57:A:VAL:HA	9	0.27
(1,502)	1:60:A:LEU:HD23	1:57:A:VAL:HA	9	0.27
(1,452)	1:28:A:ALA:H	1:26:A:ASP:HB2	17	0.27
(1,452)	1:28:A:ALA:H	1:26:A:ASP:HB3	17	0.27
(1,352)	1:237:A:GLN:HG2	1:196:A:TRP:H	12	0.27
(1,352)	1:237:A:GLN:HG3	1:196:A:TRP:H	12	0.27
(1,328)	1:232:A:TYR:HE1	1:187:A:LEU:HD11	8	0.27
(1,328)	1:232:A:TYR:HE1	1:187:A:LEU:HD12	8	0.27
(1,328)	1:232:A:TYR:HE1	1:187:A:LEU:HD13	8	0.27
(1,328)	1:232:A:TYR:HE2	1:187:A:LEU:HD11	8	0.27
(1,328)	1:232:A:TYR:HE2	1:187:A:LEU:HD12	8	0.27
(1,328)	1:232:A:TYR:HE2	1:187:A:LEU:HD13	8	0.27
(1,304)	1:226:A:PHE:HB3	1:177:A:LEU:HD21	15	0.27
(1,304)	1:226:A:PHE:HB3	1:177:A:LEU:HD22	15	0.27
(1,304)	1:226:A:PHE:HB3	1:177:A:LEU:HD23	15	0.27
(1,300)	1:197:A:GLU:HA	1:191:A:GLU:HG2	3	0.27
(1,267)	1:168:A:LEU:HA	1:139:A:ILE:HG21	7	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,267)	1:168:A:LEU:HA	1:139:A:ILE:HG22	7	0.27
(1,267)	1:168:A:LEU:HA	1:139:A:ILE:HG23	7	0.27
(1,250)	1:159:A:VAL:HG21	1:133:A:THR:HB	13	0.27
(1,250)	1:159:A:VAL:HG22	1:133:A:THR:HB	13	0.27
(1,250)	1:159:A:VAL:HG23	1:133:A:THR:HB	13	0.27
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG11	7	0.27
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG12	7	0.27
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG13	7	0.27
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG11	9	0.27
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG12	9	0.27
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG13	9	0.27
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG11	14	0.27
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG12	14	0.27
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG13	14	0.27
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD11	18	0.27
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD12	18	0.27
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD13	18	0.27
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD11	19	0.27
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD12	19	0.27
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD13	19	0.27
(1,200)	1:129:A:ASP:HB3	1:74:A:LEU:HD21	6	0.27
(1,200)	1:129:A:ASP:HB3	1:74:A:LEU:HD22	6	0.27
(1,200)	1:129:A:ASP:HB3	1:74:A:LEU:HD23	6	0.27
(1,194)	1:122:A:LEU:HB2	1:15:A:LEU:H	19	0.27
(1,178)	1:118:A:SER:HB2	1:98:A:VAL:HG11	2	0.27
(1,178)	1:118:A:SER:HB2	1:98:A:VAL:HG12	2	0.27
(1,178)	1:118:A:SER:HB2	1:98:A:VAL:HG13	2	0.27
(1,178)	1:118:A:SER:HB2	1:98:A:VAL:HG11	13	0.27
(1,178)	1:118:A:SER:HB2	1:98:A:VAL:HG12	13	0.27
(1,178)	1:118:A:SER:HB2	1:98:A:VAL:HG13	13	0.27
(1,178)	1:118:A:SER:HB2	1:98:A:VAL:HG11	16	0.27
(1,178)	1:118:A:SER:HB2	1:98:A:VAL:HG12	16	0.27
(1,178)	1:118:A:SER:HB2	1:98:A:VAL:HG13	16	0.27
(1,176)	1:118:A:SER:HB3	1:98:A:VAL:HA	10	0.27
(1,176)	1:118:A:SER:HB3	1:98:A:VAL:HA	15	0.27
(1,168)	1:117:A:LEU:HB2	1:97:A:GLY:H	20	0.27
(1,154)	1:114:A:TYR:HE1	1:97:A:GLY:H	18	0.27
(1,154)	1:114:A:TYR:HE2	1:97:A:GLY:H	18	0.27
(1,130)	1:100:A:GLY:H	1:31:A:LEU:HD11	15	0.27
(1,130)	1:100:A:GLY:H	1:31:A:LEU:HD12	15	0.27
(1,130)	1:100:A:GLY:H	1:31:A:LEU:HD13	15	0.27
(1,129)	1:99:A:ASP:HB3	1:79:A:GLY:H	7	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,79)	1:232:A:TYR:HA	1:201:A:THR:HA	8	0.27
(1,54)	1:141:A:GLY:H	1:168:A:LEU:HA	6	0.27
(1,40)	1:100:A:GLY:H	1:121:A:THR:HA	11	0.27
(1,18)	1:229:A:GLY:H	1:170:A:THR:H	9	0.27
(5,13)	1:240:A:VAL:H	1:191:A:GLU:O	13	0.26
(5,13)	1:240:A:VAL:H	1:191:A:GLU:O	16	0.26
(5,7)	1:206:A:HIS:H	1:228:A:SER:O	9	0.26
(4,197)	1:195:A:VAL:H	1:190:A:LEU:O	6	0.26
(4,143)	1:151:A:SER:H	1:149:A:PRO:O	10	0.26
(4,137)	1:140:A:VAL:H	1:78:A:CYS:O	11	0.26
(4,120)	1:120:A:CYS:N	1:99:A:ASP:O	11	0.26
(4,120)	1:120:A:CYS:N	1:99:A:ASP:O	12	0.26
(4,114)	1:114:A:TYR:N	1:108:A:ALA:O	20	0.26
(4,113)	1:114:A:TYR:H	1:108:A:ALA:O	5	0.26
(4,111)	1:113:A:LEU:H	1:108:A:ALA:O	8	0.26
(4,65)	1:79:A:GLY:H	1:77:A:ALA:O	12	0.26
(4,63)	1:77:A:ALA:H	1:98:A:VAL:O	17	0.26
(4,55)	1:72:A:LEU:H	1:135:A:ASP:OD1	8	0.26
(4,55)	1:72:A:LEU:H	1:135:A:ASP:OD1	9	0.26
(4,55)	1:72:A:LEU:H	1:135:A:ASP:OD1	19	0.26
(4,51)	1:69:A:HIS:H	1:67:A:SER:O	1	0.26
(4,51)	1:69:A:HIS:H	1:67:A:SER:O	2	0.26
(4,51)	1:69:A:HIS:H	1:67:A:SER:O	8	0.26
(2,162)	1:153:A:ILE:H	1:149:A:PRO:HB3	17	0.26
(2,93)	1:168:A:LEU:HA	1:143:A:LEU:HG	11	0.26
(2,93)	1:168:A:LEU:HA	1:143:A:LEU:HG	16	0.26
(2,87)	1:160:A:THR:HA	1:129:A:ASP:HB2	14	0.26
(2,66)	1:122:A:LEU:HD21	1:16:A:ALA:H	8	0.26
(2,66)	1:122:A:LEU:HD22	1:16:A:ALA:H	8	0.26
(2,66)	1:122:A:LEU:HD23	1:16:A:ALA:H	8	0.26
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD21	20	0.26
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD22	20	0.26
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD23	20	0.26
(1,2103)	2:300:A:SAH:H2	1:121:A:THR:HG21	19	0.26
(1,2103)	2:300:A:SAH:H2	1:121:A:THR:HG22	19	0.26
(1,2103)	2:300:A:SAH:H2	1:121:A:THR:HG23	19	0.26
(1,2091)	2:300:A:SAH:HB1	1:38:A:ALA:HB1	10	0.26
(1,2091)	2:300:A:SAH:HB1	1:38:A:ALA:HB2	10	0.26
(1,2091)	2:300:A:SAH:HB1	1:38:A:ALA:HB3	10	0.26
(1,2091)	2:300:A:SAH:HB2	1:38:A:ALA:HB1	10	0.26
(1,2091)	2:300:A:SAH:HB2	1:38:A:ALA:HB2	10	0.26
(1,2091)	2:300:A:SAH:HB2	1:38:A:ALA:HB3	10	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2034)	1:226:A:PHE:HA	1:226:A:PHE:HD1	10	0.26
(1,1478)	1:226:A:PHE:HB3	1:226:A:PHE:H	2	0.26
(1,1478)	1:226:A:PHE:HB3	1:226:A:PHE:H	3	0.26
(1,1478)	1:226:A:PHE:HB3	1:226:A:PHE:H	8	0.26
(1,1478)	1:226:A:PHE:HB3	1:226:A:PHE:H	12	0.26
(1,1478)	1:226:A:PHE:HB3	1:226:A:PHE:H	20	0.26
(1,1118)	1:238:A:GLU:H	1:237:A:GLN:HG2	8	0.26
(1,1118)	1:238:A:GLU:H	1:237:A:GLN:HG2	16	0.26
(1,1102)	1:203:A:PRO:HD3	1:202:A:GLN:HE21	15	0.26
(1,1091)	1:193:A:ALA:H	1:192:A:ARG:HD3	10	0.26
(1,1082)	1:184:A:GLU:HG2	1:183:A:LEU:HG	2	0.26
(1,1082)	1:184:A:GLU:HG2	1:183:A:LEU:HG	11	0.26
(1,1065)	1:154:A:PRO:HD3	1:153:A:ILE:HG13	15	0.26
(1,1064)	1:154:A:PRO:HD2	1:153:A:ILE:HG13	1	0.26
(1,1028)	1:114:A:TYR:H	1:113:A:LEU:HG	12	0.26
(1,960)	1:235:A:ARG:HB3	1:236:A:LYS:H	9	0.26
(1,886)	1:122:A:LEU:HB2	1:123:A:GLY:H	3	0.26
(1,886)	1:122:A:LEU:HB2	1:123:A:GLY:H	13	0.26
(1,879)	1:115:A:HIS:HB3	1:116:A:HIS:H	1	0.26
(1,879)	1:115:A:HIS:HB3	1:116:A:HIS:H	12	0.26
(1,864)	1:88:A:GLN:HB2	1:89:A:ALA:H	4	0.26
(1,824)	1:27:A:LEU:HB2	1:28:A:ALA:H	3	0.26
(1,557)	1:232:A:TYR:H	1:230:A:ILE:HG21	18	0.26
(1,557)	1:232:A:TYR:H	1:230:A:ILE:HG22	18	0.26
(1,557)	1:232:A:TYR:H	1:230:A:ILE:HG23	18	0.26
(1,529)	1:133:A:THR:HG21	1:129:A:ASP:H	16	0.26
(1,529)	1:133:A:THR:HG22	1:129:A:ASP:H	16	0.26
(1,529)	1:133:A:THR:HG23	1:129:A:ASP:H	16	0.26
(1,529)	1:133:A:THR:HG21	1:129:A:ASP:H	18	0.26
(1,529)	1:133:A:THR:HG22	1:129:A:ASP:H	18	0.26
(1,529)	1:133:A:THR:HG23	1:129:A:ASP:H	18	0.26
(1,520)	1:113:A:LEU:HB3	1:111:A:ARG:HG3	14	0.26
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG11	16	0.26
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG12	16	0.26
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG13	16	0.26
(1,452)	1:28:A:ALA:H	1:26:A:ASP:HB2	20	0.26
(1,452)	1:28:A:ALA:H	1:26:A:ASP:HB3	20	0.26
(1,403)	1:176:A:ASN:HA	1:180:A:LYS:H	6	0.26
(1,354)	1:238:A:GLU:HG2	1:163:A:GLY:HA2	8	0.26
(1,354)	1:238:A:GLU:HG3	1:163:A:GLY:HA2	8	0.26
(1,352)	1:237:A:GLN:HG2	1:196:A:TRP:H	8	0.26
(1,352)	1:237:A:GLN:HG3	1:196:A:TRP:H	8	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,352)	1:237:A:GLN:HG2	1:196:A:TRP:H	14	0.26
(1,352)	1:237:A:GLN:HG3	1:196:A:TRP:H	14	0.26
(1,324)	1:231:A:ILE:H	1:204:A:VAL:HB	19	0.26
(1,295)	1:196:A:TRP:HE1	1:191:A:GLU:HA	8	0.26
(1,261)	1:167:A:CYS:HB3	1:138:A:ILE:HG12	12	0.26
(1,258)	1:166:A:VAL:HG11	1:157:A:LEU:HA	11	0.26
(1,258)	1:166:A:VAL:HG12	1:157:A:LEU:HA	11	0.26
(1,258)	1:166:A:VAL:HG13	1:157:A:LEU:HA	11	0.26
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG11	9	0.26
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG12	9	0.26
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG13	9	0.26
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG11	9	0.26
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG12	9	0.26
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG13	9	0.26
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG11	9	0.26
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG12	9	0.26
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG13	9	0.26
(1,237)	1:149:A:PRO:HB3	1:123:A:GLY:HA3	10	0.26
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG11	20	0.26
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG12	20	0.26
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG13	20	0.26
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD11	17	0.26
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD12	17	0.26
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD13	17	0.26
(1,200)	1:129:A:ASP:HB3	1:74:A:LEU:HD21	13	0.26
(1,200)	1:129:A:ASP:HB3	1:74:A:LEU:HD22	13	0.26
(1,200)	1:129:A:ASP:HB3	1:74:A:LEU:HD23	13	0.26
(1,194)	1:122:A:LEU:HB2	1:15:A:LEU:H	10	0.26
(1,194)	1:122:A:LEU:HB2	1:15:A:LEU:H	15	0.26
(1,178)	1:118:A:SER:HB2	1:98:A:VAL:HG11	9	0.26
(1,178)	1:118:A:SER:HB2	1:98:A:VAL:HG12	9	0.26
(1,178)	1:118:A:SER:HB2	1:98:A:VAL:HG13	9	0.26
(1,154)	1:114:A:TYR:HE1	1:97:A:GLY:H	9	0.26
(1,154)	1:114:A:TYR:HE2	1:97:A:GLY:H	9	0.26
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG11	12	0.26
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG12	12	0.26
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG13	12	0.26
(1,82)	1:27:A:LEU:HD11	1:21:A:SER:HA	10	0.26
(1,82)	1:27:A:LEU:HD12	1:21:A:SER:HA	10	0.26
(1,82)	1:27:A:LEU:HD13	1:21:A:SER:HA	10	0.26
(1,66)	1:200:A:VAL:H	1:232:A:TYR:HA	13	0.26
(1,54)	1:141:A:GLY:H	1:168:A:LEU:HA	18	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,18)	1:229:A:GLY:H	1:170:A:THR:H	16	0.26
(5,4)	1:92:A:PHE:N	1:87:A:LEU:O	12	0.25
(4,225)	1:236:A:LYS:H	1:164:A:GLY:O	17	0.25
(4,200)	1:196:A:TRP:N	1:190:A:LEU:O	4	0.25
(4,200)	1:196:A:TRP:N	1:190:A:LEU:O	5	0.25
(4,173)	1:182:A:THR:H	1:178:A:PRO:O	1	0.25
(4,173)	1:182:A:THR:H	1:178:A:PRO:O	13	0.25
(4,173)	1:182:A:THR:H	1:178:A:PRO:O	14	0.25
(4,171)	1:181:A:GLU:H	1:178:A:PRO:O	19	0.25
(4,165)	1:169:A:THR:H	1:139:A:ILE:O	5	0.25
(4,165)	1:169:A:THR:H	1:139:A:ILE:O	7	0.25
(4,120)	1:120:A:CYS:N	1:99:A:ASP:O	9	0.25
(4,120)	1:120:A:CYS:N	1:99:A:ASP:O	18	0.25
(4,119)	1:120:A:CYS:H	1:99:A:ASP:O	3	0.25
(4,114)	1:114:A:TYR:N	1:108:A:ALA:O	3	0.25
(4,114)	1:114:A:TYR:N	1:108:A:ALA:O	17	0.25
(4,113)	1:114:A:TYR:H	1:108:A:ALA:O	15	0.25
(4,65)	1:79:A:GLY:H	1:77:A:ALA:O	17	0.25
(4,51)	1:69:A:HIS:H	1:67:A:SER:O	3	0.25
(4,12)	1:14:A:VAL:N	1:10:A:ARG:O	1	0.25
(2,193)	1:181:A:GLU:H	1:179:A:TYR:HD1	4	0.25
(2,193)	1:181:A:GLU:H	1:179:A:TYR:HD2	4	0.25
(2,192)	1:159:A:VAL:H	1:156:A:LEU:HD11	9	0.25
(2,192)	1:159:A:VAL:H	1:156:A:LEU:HD12	9	0.25
(2,192)	1:159:A:VAL:H	1:156:A:LEU:HD13	9	0.25
(2,92)	1:167:A:CYS:HB3	1:139:A:ILE:HA	9	0.25
(1,2103)	2:300:A:SAH:H2	1:121:A:THR:HG21	18	0.25
(1,2103)	2:300:A:SAH:H2	1:121:A:THR:HG22	18	0.25
(1,2103)	2:300:A:SAH:H2	1:121:A:THR:HG23	18	0.25
(1,2086)	2:300:A:SAH:HA	1:35:A:ASP:HA	11	0.25
(1,1478)	1:226:A:PHE:HB3	1:226:A:PHE:H	4	0.25
(1,1478)	1:226:A:PHE:HB3	1:226:A:PHE:H	6	0.25
(1,1478)	1:226:A:PHE:HB3	1:226:A:PHE:H	11	0.25
(1,1118)	1:238:A:GLU:H	1:237:A:GLN:HG2	10	0.25
(1,1097)	1:201:A:THR:H	1:200:A:VAL:HG21	2	0.25
(1,1097)	1:201:A:THR:H	1:200:A:VAL:HG22	2	0.25
(1,1097)	1:201:A:THR:H	1:200:A:VAL:HG23	2	0.25
(1,1082)	1:184:A:GLU:HG2	1:183:A:LEU:HG	6	0.25
(1,1065)	1:154:A:PRO:HD3	1:153:A:ILE:HG13	19	0.25
(1,1064)	1:154:A:PRO:HD2	1:153:A:ILE:HG13	19	0.25
(1,1030)	1:116:A:HIS:HB2	1:115:A:HIS:HB3	11	0.25
(1,1018)	1:94:A:GLN:HG2	1:93:A:LEU:H	3	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1018)	1:94:A:GLN:HG2	1:93:A:LEU:H	5	0.25
(1,1018)	1:94:A:GLN:HG2	1:93:A:LEU:H	11	0.25
(1,963)	1:238:A:GLU:HB2	1:239:A:THR:H	19	0.25
(1,942)	1:205:A:ASP:HB3	1:206:A:HIS:H	16	0.25
(1,893)	1:134:A:PHE:HB2	1:135:A:ASP:H	11	0.25
(1,879)	1:115:A:HIS:HB3	1:116:A:HIS:H	18	0.25
(1,864)	1:88:A:GLN:HB2	1:89:A:ALA:H	2	0.25
(1,864)	1:88:A:GLN:HB2	1:89:A:ALA:H	10	0.25
(1,864)	1:88:A:GLN:HB2	1:89:A:ALA:H	19	0.25
(1,850)	1:62:A:ARG:HB2	1:63:A:ALA:H	5	0.25
(1,850)	1:62:A:ARG:HB2	1:63:A:ALA:H	10	0.25
(1,529)	1:133:A:THR:HG21	1:129:A:ASP:H	15	0.25
(1,529)	1:133:A:THR:HG22	1:129:A:ASP:H	15	0.25
(1,529)	1:133:A:THR:HG23	1:129:A:ASP:H	15	0.25
(1,529)	1:133:A:THR:HG21	1:129:A:ASP:H	17	0.25
(1,529)	1:133:A:THR:HG22	1:129:A:ASP:H	17	0.25
(1,529)	1:133:A:THR:HG23	1:129:A:ASP:H	17	0.25
(1,507)	1:68:A:PRO:HA	1:64:A:PHE:HZ	7	0.25
(1,406)	1:10:A:ARG:HA	1:13:A:GLN:H	10	0.25
(1,352)	1:237:A:GLN:HG2	1:196:A:TRP:H	3	0.25
(1,352)	1:237:A:GLN:HG3	1:196:A:TRP:H	3	0.25
(1,340)	1:235:A:ARG:HD2	1:163:A:GLY:HA2	5	0.25
(1,340)	1:235:A:ARG:HD3	1:163:A:GLY:HA2	5	0.25
(1,329)	1:232:A:TYR:HA	1:201:A:THR:HB	2	0.25
(1,311)	1:228:A:SER:HA	1:174:A:PRO:HD2	12	0.25
(1,269)	1:169:A:THR:HG21	1:140:A:VAL:HG11	3	0.25
(1,269)	1:169:A:THR:HG21	1:140:A:VAL:HG12	3	0.25
(1,269)	1:169:A:THR:HG21	1:140:A:VAL:HG13	3	0.25
(1,269)	1:169:A:THR:HG22	1:140:A:VAL:HG11	3	0.25
(1,269)	1:169:A:THR:HG22	1:140:A:VAL:HG12	3	0.25
(1,269)	1:169:A:THR:HG22	1:140:A:VAL:HG13	3	0.25
(1,269)	1:169:A:THR:HG23	1:140:A:VAL:HG11	3	0.25
(1,269)	1:169:A:THR:HG23	1:140:A:VAL:HG12	3	0.25
(1,269)	1:169:A:THR:HG23	1:140:A:VAL:HG13	3	0.25
(1,258)	1:166:A:VAL:HG11	1:157:A:LEU:HA	10	0.25
(1,258)	1:166:A:VAL:HG12	1:157:A:LEU:HA	10	0.25
(1,258)	1:166:A:VAL:HG13	1:157:A:LEU:HA	10	0.25
(1,258)	1:166:A:VAL:HG11	1:157:A:LEU:HA	17	0.25
(1,258)	1:166:A:VAL:HG12	1:157:A:LEU:HA	17	0.25
(1,258)	1:166:A:VAL:HG13	1:157:A:LEU:HA	17	0.25
(1,250)	1:159:A:VAL:HG21	1:133:A:THR:HB	1	0.25
(1,250)	1:159:A:VAL:HG22	1:133:A:THR:HB	1	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,250)	1:159:A:VAL:HG23	1:133:A:THR:HB	1	0.25
(1,250)	1:159:A:VAL:HG21	1:133:A:THR:HB	19	0.25
(1,250)	1:159:A:VAL:HG22	1:133:A:THR:HB	19	0.25
(1,250)	1:159:A:VAL:HG23	1:133:A:THR:HB	19	0.25
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG11	20	0.25
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG12	20	0.25
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG13	20	0.25
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG11	20	0.25
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG12	20	0.25
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG13	20	0.25
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG11	20	0.25
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG12	20	0.25
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG13	20	0.25
(1,195)	1:122:A:LEU:HD21	1:15:A:LEU:H	10	0.25
(1,195)	1:122:A:LEU:HD22	1:15:A:LEU:H	10	0.25
(1,195)	1:122:A:LEU:HD23	1:15:A:LEU:H	10	0.25
(1,178)	1:118:A:SER:HB2	1:98:A:VAL:HG11	7	0.25
(1,178)	1:118:A:SER:HB2	1:98:A:VAL:HG12	7	0.25
(1,178)	1:118:A:SER:HB2	1:98:A:VAL:HG13	7	0.25
(1,162)	1:115:A:HIS:HB2	1:96:A:GLN:HA	4	0.25
(1,161)	1:115:A:HIS:HB2	1:96:A:GLN:HG3	19	0.25
(1,154)	1:114:A:TYR:HE1	1:97:A:GLY:H	12	0.25
(1,154)	1:114:A:TYR:HE2	1:97:A:GLY:H	12	0.25
(1,130)	1:100:A:GLY:H	1:31:A:LEU:HD11	3	0.25
(1,130)	1:100:A:GLY:H	1:31:A:LEU:HD12	3	0.25
(1,130)	1:100:A:GLY:H	1:31:A:LEU:HD13	3	0.25
(1,130)	1:100:A:GLY:H	1:31:A:LEU:HD11	4	0.25
(1,130)	1:100:A:GLY:H	1:31:A:LEU:HD12	4	0.25
(1,130)	1:100:A:GLY:H	1:31:A:LEU:HD13	4	0.25
(1,106)	1:94:A:GLN:HE22	1:70:A:ASP:HA	3	0.25
(1,100)	1:92:A:PHE:HE1	1:68:A:PRO:HB2	1	0.25
(1,94)	1:90:A:ARG:H	1:57:A:VAL:HG21	15	0.25
(1,94)	1:90:A:ARG:H	1:57:A:VAL:HG22	15	0.25
(1,94)	1:90:A:ARG:H	1:57:A:VAL:HG23	15	0.25
(1,82)	1:27:A:LEU:HD11	1:21:A:SER:HA	3	0.25
(1,82)	1:27:A:LEU:HD12	1:21:A:SER:HA	3	0.25
(1,82)	1:27:A:LEU:HD13	1:21:A:SER:HA	3	0.25
(1,79)	1:232:A:TYR:HA	1:201:A:THR:HA	3	0.25
(5,14)	1:240:A:VAL:N	1:191:A:GLU:O	20	0.24
(5,7)	1:206:A:HIS:H	1:228:A:SER:O	6	0.24
(5,3)	1:92:A:PHE:H	1:87:A:LEU:O	2	0.24
(4,218)	1:231:A:ILE:N	1:202:A:GLN:O	19	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,217)	1:231:A:ILE:H	1:202:A:GLN:O	7	0.24
(4,217)	1:231:A:ILE:H	1:202:A:GLN:O	9	0.24
(4,213)	1:229:A:GLY:H	1:170:A:THR:O	16	0.24
(4,197)	1:195:A:VAL:H	1:190:A:LEU:O	13	0.24
(4,197)	1:195:A:VAL:H	1:190:A:LEU:O	18	0.24
(4,173)	1:182:A:THR:H	1:178:A:PRO:O	15	0.24
(4,114)	1:114:A:TYR:N	1:108:A:ALA:O	1	0.24
(4,114)	1:114:A:TYR:N	1:108:A:ALA:O	5	0.24
(4,114)	1:114:A:TYR:N	1:108:A:ALA:O	14	0.24
(4,112)	1:113:A:LEU:N	1:108:A:ALA:O	1	0.24
(4,111)	1:113:A:LEU:H	1:108:A:ALA:O	9	0.24
(4,90)	1:94:A:GLN:N	1:68:A:PRO:O	18	0.24
(4,87)	1:93:A:LEU:H	1:68:A:PRO:O	16	0.24
(4,55)	1:72:A:LEU:H	1:135:A:ASP:OD1	1	0.24
(4,51)	1:69:A:HIS:H	1:67:A:SER:O	5	0.24
(4,51)	1:69:A:HIS:H	1:67:A:SER:O	7	0.24
(4,39)	1:57:A:VAL:H	1:53:A:PRO:O	18	0.24
(4,9)	1:11:A:LEU:H	1:146:A:GLY:O	14	0.24
(4,9)	1:11:A:LEU:H	1:146:A:GLY:O	19	0.24
(2,102)	1:227:A:ILE:HG21	1:173:A:ASN:HB3	15	0.24
(2,102)	1:227:A:ILE:HG22	1:173:A:ASN:HB3	15	0.24
(2,102)	1:227:A:ILE:HG23	1:173:A:ASN:HB3	15	0.24
(2,19)	1:91:A:GLY:H	1:57:A:VAL:HG21	5	0.24
(2,19)	1:91:A:GLY:H	1:57:A:VAL:HG22	5	0.24
(2,19)	1:91:A:GLY:H	1:57:A:VAL:HG23	5	0.24
(1,2092)	2:300:A:SAH:HG1	1:38:A:ALA:HB1	19	0.24
(1,2092)	2:300:A:SAH:HG1	1:38:A:ALA:HB2	19	0.24
(1,2092)	2:300:A:SAH:HG1	1:38:A:ALA:HB3	19	0.24
(1,2035)	1:226:A:PHE:HB3	1:226:A:PHE:HD1	1	0.24
(1,2013)	1:200:A:VAL:H	1:200:A:VAL:HG21	4	0.24
(1,2013)	1:200:A:VAL:H	1:200:A:VAL:HG22	4	0.24
(1,2013)	1:200:A:VAL:H	1:200:A:VAL:HG23	4	0.24
(1,1765)	1:92:A:PHE:H	1:92:A:PHE:HE1	8	0.24
(1,1478)	1:226:A:PHE:HB3	1:226:A:PHE:H	15	0.24
(1,1118)	1:238:A:GLU:H	1:237:A:GLN:HG2	5	0.24
(1,1118)	1:238:A:GLU:H	1:237:A:GLN:HG2	14	0.24
(1,1082)	1:184:A:GLU:HG2	1:183:A:LEU:HG	10	0.24
(1,1030)	1:116:A:HIS:HB2	1:115:A:HIS:HB3	17	0.24
(1,1021)	1:97:A:GLY:H	1:96:A:GLN:HG2	16	0.24
(1,1018)	1:94:A:GLN:HG2	1:93:A:LEU:H	19	0.24
(1,979)	1:49:A:LYS:H	1:48:A:LEU:HD11	2	0.24
(1,979)	1:49:A:LYS:H	1:48:A:LEU:HD12	2	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,979)	1:49:A:LYS:H	1:48:A:LEU:HD13	2	0.24
(1,960)	1:235:A:ARG:HB3	1:236:A:LYS:H	15	0.24
(1,914)	1:171:A:ARG:HB2	1:172:A:THR:H	9	0.24
(1,914)	1:171:A:ARG:HB3	1:172:A:THR:H	9	0.24
(1,884)	1:118:A:SER:HB3	1:119:A:LEU:H	8	0.24
(1,879)	1:115:A:HIS:HB3	1:116:A:HIS:H	10	0.24
(1,879)	1:115:A:HIS:HB3	1:116:A:HIS:H	14	0.24
(1,850)	1:62:A:ARG:HB2	1:63:A:ALA:H	6	0.24
(1,827)	1:29:A:CYS:HB2	1:30:A:LYS:H	8	0.24
(1,824)	1:27:A:LEU:HB2	1:28:A:ALA:H	11	0.24
(1,529)	1:133:A:THR:HG21	1:129:A:ASP:H	6	0.24
(1,529)	1:133:A:THR:HG22	1:129:A:ASP:H	6	0.24
(1,529)	1:133:A:THR:HG23	1:129:A:ASP:H	6	0.24
(1,529)	1:133:A:THR:HG21	1:129:A:ASP:H	19	0.24
(1,529)	1:133:A:THR:HG22	1:129:A:ASP:H	19	0.24
(1,529)	1:133:A:THR:HG23	1:129:A:ASP:H	19	0.24
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG11	14	0.24
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG12	14	0.24
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG13	14	0.24
(1,502)	1:60:A:LEU:HD21	1:57:A:VAL:HA	3	0.24
(1,502)	1:60:A:LEU:HD22	1:57:A:VAL:HA	3	0.24
(1,502)	1:60:A:LEU:HD23	1:57:A:VAL:HA	3	0.24
(1,403)	1:176:A:ASN:HA	1:180:A:LYS:H	5	0.24
(1,345)	1:236:A:LYS:HA	1:196:A:TRP:HB3	8	0.24
(1,345)	1:236:A:LYS:HA	1:196:A:TRP:HB3	12	0.24
(1,340)	1:235:A:ARG:HD2	1:163:A:GLY:HA2	12	0.24
(1,340)	1:235:A:ARG:HD3	1:163:A:GLY:HA2	12	0.24
(1,334)	1:233:A:LEU:HD21	1:202:A:GLN:HE22	9	0.24
(1,334)	1:233:A:LEU:HD22	1:202:A:GLN:HE22	9	0.24
(1,334)	1:233:A:LEU:HD23	1:202:A:GLN:HE22	9	0.24
(1,328)	1:232:A:TYR:HE1	1:187:A:LEU:HD11	3	0.24
(1,328)	1:232:A:TYR:HE1	1:187:A:LEU:HD12	3	0.24
(1,328)	1:232:A:TYR:HE1	1:187:A:LEU:HD13	3	0.24
(1,328)	1:232:A:TYR:HE2	1:187:A:LEU:HD11	3	0.24
(1,328)	1:232:A:TYR:HE2	1:187:A:LEU:HD12	3	0.24
(1,328)	1:232:A:TYR:HE2	1:187:A:LEU:HD13	3	0.24
(1,313)	1:229:A:GLY:H	1:204:A:VAL:HG11	7	0.24
(1,313)	1:229:A:GLY:H	1:204:A:VAL:HG12	7	0.24
(1,313)	1:229:A:GLY:H	1:204:A:VAL:HG13	7	0.24
(1,308)	1:227:A:ILE:HD11	1:173:A:ASN:H	17	0.24
(1,308)	1:227:A:ILE:HD12	1:173:A:ASN:H	17	0.24
(1,308)	1:227:A:ILE:HD13	1:173:A:ASN:H	17	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,258)	1:166:A:VAL:HG11	1:157:A:LEU:HA	16	0.24
(1,258)	1:166:A:VAL:HG12	1:157:A:LEU:HA	16	0.24
(1,258)	1:166:A:VAL:HG13	1:157:A:LEU:HA	16	0.24
(1,251)	1:159:A:VAL:HG21	1:134:A:PHE:H	20	0.24
(1,251)	1:159:A:VAL:HG22	1:134:A:PHE:H	20	0.24
(1,251)	1:159:A:VAL:HG23	1:134:A:PHE:H	20	0.24
(1,250)	1:159:A:VAL:HG21	1:133:A:THR:HB	14	0.24
(1,250)	1:159:A:VAL:HG22	1:133:A:THR:HB	14	0.24
(1,250)	1:159:A:VAL:HG23	1:133:A:THR:HB	14	0.24
(1,245)	1:155:A:GLU:HB2	1:127:A:LEU:H	8	0.24
(1,245)	1:155:A:GLU:HB3	1:127:A:LEU:H	8	0.24
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG11	11	0.24
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG12	11	0.24
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG13	11	0.24
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG11	11	0.24
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG12	11	0.24
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG13	11	0.24
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG11	11	0.24
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG12	11	0.24
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG13	11	0.24
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG11	1	0.24
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG12	1	0.24
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG13	1	0.24
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD11	11	0.24
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD12	11	0.24
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD13	11	0.24
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD11	15	0.24
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD12	15	0.24
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD13	15	0.24
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD11	16	0.24
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD12	16	0.24
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD13	16	0.24
(1,200)	1:129:A:ASP:HB3	1:74:A:LEU:HD21	10	0.24
(1,200)	1:129:A:ASP:HB3	1:74:A:LEU:HD22	10	0.24
(1,200)	1:129:A:ASP:HB3	1:74:A:LEU:HD23	10	0.24
(1,194)	1:122:A:LEU:HB2	1:15:A:LEU:H	13	0.24
(1,154)	1:114:A:TYR:HE1	1:97:A:GLY:H	8	0.24
(1,154)	1:114:A:TYR:HE2	1:97:A:GLY:H	8	0.24
(1,154)	1:114:A:TYR:HE1	1:97:A:GLY:H	14	0.24
(1,154)	1:114:A:TYR:HE2	1:97:A:GLY:H	14	0.24
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG11	2	0.24
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG12	2	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG13	2	0.24
(1,129)	1:99:A:ASP:HB3	1:79:A:GLY:H	18	0.24
(1,106)	1:94:A:GLN:HE22	1:70:A:ASP:HA	13	0.24
(1,101)	1:92:A:PHE:H	1:87:A:LEU:HD21	20	0.24
(1,101)	1:92:A:PHE:H	1:87:A:LEU:HD22	20	0.24
(1,101)	1:92:A:PHE:H	1:87:A:LEU:HD23	20	0.24
(1,100)	1:92:A:PHE:HE1	1:68:A:PRO:HB2	17	0.24
(1,79)	1:232:A:TYR:HA	1:201:A:THR:HA	4	0.24
(1,28)	1:237:A:GLN:H	1:197:A:GLU:H	7	0.24
(1,18)	1:229:A:GLY:H	1:170:A:THR:H	1	0.24
(1,18)	1:229:A:GLY:H	1:170:A:THR:H	12	0.24
(5,13)	1:240:A:VAL:H	1:191:A:GLU:O	1	0.23
(5,13)	1:240:A:VAL:H	1:191:A:GLU:O	5	0.23
(5,13)	1:240:A:VAL:H	1:191:A:GLU:O	6	0.23
(4,213)	1:229:A:GLY:H	1:170:A:THR:O	9	0.23
(4,197)	1:195:A:VAL:H	1:190:A:LEU:O	14	0.23
(4,174)	1:182:A:THR:N	1:178:A:PRO:O	5	0.23
(4,174)	1:182:A:THR:N	1:178:A:PRO:O	6	0.23
(4,174)	1:182:A:THR:N	1:178:A:PRO:O	19	0.23
(4,173)	1:182:A:THR:H	1:178:A:PRO:O	12	0.23
(4,167)	1:170:A:THR:H	1:230:A:ILE:O	3	0.23
(4,137)	1:140:A:VAL:H	1:78:A:CYS:O	6	0.23
(4,137)	1:140:A:VAL:H	1:78:A:CYS:O	7	0.23
(4,137)	1:140:A:VAL:H	1:78:A:CYS:O	9	0.23
(4,114)	1:114:A:TYR:N	1:108:A:ALA:O	15	0.23
(4,111)	1:113:A:LEU:H	1:108:A:ALA:O	11	0.23
(4,111)	1:113:A:LEU:H	1:108:A:ALA:O	19	0.23
(4,55)	1:72:A:LEU:H	1:135:A:ASP:OD1	3	0.23
(4,55)	1:72:A:LEU:H	1:135:A:ASP:OD1	10	0.23
(4,55)	1:72:A:LEU:H	1:135:A:ASP:OD1	20	0.23
(4,11)	1:14:A:VAL:H	1:10:A:ARG:O	8	0.23
(4,7)	1:9:A:GLY:H	1:5:A:GLN:O	12	0.23
(2,193)	1:181:A:GLU:H	1:179:A:TYR:HD1	16	0.23
(2,193)	1:181:A:GLU:H	1:179:A:TYR:HD2	16	0.23
(2,192)	1:159:A:VAL:H	1:156:A:LEU:HD11	20	0.23
(2,192)	1:159:A:VAL:H	1:156:A:LEU:HD12	20	0.23
(2,192)	1:159:A:VAL:H	1:156:A:LEU:HD13	20	0.23
(2,93)	1:168:A:LEU:HA	1:143:A:LEU:HG	20	0.23
(2,41)	1:97:A:GLY:H	1:75:A:ASP:HB2	5	0.23
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD11	11	0.23
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD12	11	0.23
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD13	11	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD21	4	0.23
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD22	4	0.23
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD23	4	0.23
(1,2091)	2:300:A:SAH:HB1	1:38:A:ALA:HB1	11	0.23
(1,2091)	2:300:A:SAH:HB1	1:38:A:ALA:HB2	11	0.23
(1,2091)	2:300:A:SAH:HB1	1:38:A:ALA:HB3	11	0.23
(1,2091)	2:300:A:SAH:HB2	1:38:A:ALA:HB1	11	0.23
(1,2091)	2:300:A:SAH:HB2	1:38:A:ALA:HB2	11	0.23
(1,2091)	2:300:A:SAH:HB2	1:38:A:ALA:HB3	11	0.23
(1,2035)	1:226:A:PHE:HB3	1:226:A:PHE:HD1	4	0.23
(1,2035)	1:226:A:PHE:HB3	1:226:A:PHE:HD1	10	0.23
(1,2035)	1:226:A:PHE:HB3	1:226:A:PHE:HD1	12	0.23
(1,2035)	1:226:A:PHE:HB3	1:226:A:PHE:HD1	18	0.23
(1,1696)	1:65:A:ARG:HD2	1:65:A:ARG:H	1	0.23
(1,1478)	1:226:A:PHE:HB3	1:226:A:PHE:H	5	0.23
(1,1118)	1:238:A:GLU:H	1:237:A:GLN:HG2	6	0.23
(1,1036)	1:122:A:LEU:HD11	1:121:A:THR:H	11	0.23
(1,1036)	1:122:A:LEU:HD12	1:121:A:THR:H	11	0.23
(1,1036)	1:122:A:LEU:HD13	1:121:A:THR:H	11	0.23
(1,967)	1:18:A:VAL:HA	1:17:A:ARG:HG3	8	0.23
(1,963)	1:238:A:GLU:HB2	1:239:A:THR:H	13	0.23
(1,960)	1:235:A:ARG:HB3	1:236:A:LYS:H	5	0.23
(1,931)	1:191:A:GLU:HB2	1:192:A:ARG:H	13	0.23
(1,886)	1:122:A:LEU:HB2	1:123:A:GLY:H	6	0.23
(1,886)	1:122:A:LEU:HB2	1:123:A:GLY:H	12	0.23
(1,529)	1:133:A:THR:HG21	1:129:A:ASP:H	10	0.23
(1,529)	1:133:A:THR:HG22	1:129:A:ASP:H	10	0.23
(1,529)	1:133:A:THR:HG23	1:129:A:ASP:H	10	0.23
(1,520)	1:113:A:LEU:HB3	1:111:A:ARG:HG3	1	0.23
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG11	4	0.23
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG12	4	0.23
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG13	4	0.23
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG11	7	0.23
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG12	7	0.23
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG13	7	0.23
(1,502)	1:60:A:LEU:HD21	1:57:A:VAL:HA	7	0.23
(1,502)	1:60:A:LEU:HD22	1:57:A:VAL:HA	7	0.23
(1,502)	1:60:A:LEU:HD23	1:57:A:VAL:HA	7	0.23
(1,347)	1:237:A:GLN:HB2	1:164:A:GLY:H	18	0.23
(1,347)	1:237:A:GLN:HB3	1:164:A:GLY:H	18	0.23
(1,345)	1:236:A:LYS:HA	1:196:A:TRP:HB3	4	0.23
(1,340)	1:235:A:ARG:HD2	1:163:A:GLY:HA2	18	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,340)	1:235:A:ARG:HD3	1:163:A:GLY:HA2	18	0.23
(1,329)	1:232:A:TYR:HA	1:201:A:THR:HB	16	0.23
(1,328)	1:232:A:TYR:HE1	1:187:A:LEU:HD11	4	0.23
(1,328)	1:232:A:TYR:HE1	1:187:A:LEU:HD12	4	0.23
(1,328)	1:232:A:TYR:HE1	1:187:A:LEU:HD13	4	0.23
(1,328)	1:232:A:TYR:HE2	1:187:A:LEU:HD11	4	0.23
(1,328)	1:232:A:TYR:HE2	1:187:A:LEU:HD12	4	0.23
(1,328)	1:232:A:TYR:HE2	1:187:A:LEU:HD13	4	0.23
(1,328)	1:232:A:TYR:HE1	1:187:A:LEU:HD11	14	0.23
(1,328)	1:232:A:TYR:HE1	1:187:A:LEU:HD12	14	0.23
(1,328)	1:232:A:TYR:HE1	1:187:A:LEU:HD13	14	0.23
(1,328)	1:232:A:TYR:HE2	1:187:A:LEU:HD11	14	0.23
(1,328)	1:232:A:TYR:HE2	1:187:A:LEU:HD12	14	0.23
(1,328)	1:232:A:TYR:HE2	1:187:A:LEU:HD13	14	0.23
(1,295)	1:196:A:TRP:HE1	1:191:A:GLU:HA	3	0.23
(1,280)	1:196:A:TRP:HZ2	1:187:A:LEU:HA	3	0.23
(1,279)	1:196:A:TRP:HH2	1:187:A:LEU:HD11	3	0.23
(1,279)	1:196:A:TRP:HH2	1:187:A:LEU:HD12	3	0.23
(1,279)	1:196:A:TRP:HH2	1:187:A:LEU:HD13	3	0.23
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG11	7	0.23
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG12	7	0.23
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG13	7	0.23
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG11	7	0.23
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG12	7	0.23
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG13	7	0.23
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG11	7	0.23
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG12	7	0.23
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG13	7	0.23
(1,237)	1:149:A:PRO:HB3	1:123:A:GLY:HA3	11	0.23
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG11	8	0.23
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG12	8	0.23
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG13	8	0.23
(1,231)	1:138:A:ILE:HG21	1:75:A:ASP:HB2	15	0.23
(1,231)	1:138:A:ILE:HG22	1:75:A:ASP:HB2	15	0.23
(1,231)	1:138:A:ILE:HG23	1:75:A:ASP:HB2	15	0.23
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD11	6	0.23
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD12	6	0.23
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD13	6	0.23
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD11	9	0.23
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD12	9	0.23
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD13	9	0.23
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD11	10	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD12	10	0.23
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD13	10	0.23
(1,168)	1:117:A:LEU:HB2	1:97:A:GLY:H	15	0.23
(1,162)	1:115:A:HIS:HB2	1:96:A:GLN:HA	10	0.23
(1,130)	1:100:A:GLY:H	1:31:A:LEU:HD11	1	0.23
(1,130)	1:100:A:GLY:H	1:31:A:LEU:HD12	1	0.23
(1,130)	1:100:A:GLY:H	1:31:A:LEU:HD13	1	0.23
(1,101)	1:92:A:PHE:H	1:87:A:LEU:HD21	7	0.23
(1,101)	1:92:A:PHE:H	1:87:A:LEU:HD22	7	0.23
(1,101)	1:92:A:PHE:H	1:87:A:LEU:HD23	7	0.23
(1,100)	1:92:A:PHE:HE1	1:68:A:PRO:HB2	18	0.23
(1,81)	1:27:A:LEU:HD11	1:17:A:ARG:HD2	19	0.23
(1,81)	1:27:A:LEU:HD12	1:17:A:ARG:HD2	19	0.23
(1,81)	1:27:A:LEU:HD13	1:17:A:ARG:HD2	19	0.23
(1,81)	1:27:A:LEU:HD11	1:17:A:ARG:HD2	20	0.23
(1,81)	1:27:A:LEU:HD12	1:17:A:ARG:HD2	20	0.23
(1,81)	1:27:A:LEU:HD13	1:17:A:ARG:HD2	20	0.23
(1,54)	1:141:A:GLY:H	1:168:A:LEU:HA	15	0.23
(1,28)	1:237:A:GLN:H	1:197:A:GLU:H	15	0.23
(4,225)	1:236:A:LYS:H	1:164:A:GLY:O	14	0.22
(4,211)	1:225:A:GLY:H	1:210:A:ALA:O	17	0.22
(4,197)	1:195:A:VAL:H	1:190:A:LEU:O	11	0.22
(4,173)	1:182:A:THR:H	1:178:A:PRO:O	11	0.22
(4,171)	1:181:A:GLU:H	1:178:A:PRO:O	5	0.22
(4,112)	1:113:A:LEU:N	1:108:A:ALA:O	3	0.22
(4,65)	1:79:A:GLY:H	1:77:A:ALA:O	1	0.22
(4,65)	1:79:A:GLY:H	1:77:A:ALA:O	7	0.22
(4,65)	1:79:A:GLY:H	1:77:A:ALA:O	19	0.22
(4,55)	1:72:A:LEU:H	1:135:A:ASP:OD1	5	0.22
(4,44)	1:60:A:LEU:N	1:56:A:ALA:O	18	0.22
(4,10)	1:11:A:LEU:N	1:146:A:GLY:O	20	0.22
(2,277)	1:57:A:VAL:HG21	1:56:A:ALA:H	1	0.22
(2,277)	1:57:A:VAL:HG22	1:56:A:ALA:H	1	0.22
(2,277)	1:57:A:VAL:HG23	1:56:A:ALA:H	1	0.22
(2,192)	1:159:A:VAL:H	1:156:A:LEU:HD11	8	0.22
(2,192)	1:159:A:VAL:H	1:156:A:LEU:HD12	8	0.22
(2,192)	1:159:A:VAL:H	1:156:A:LEU:HD13	8	0.22
(2,162)	1:153:A:ILE:H	1:149:A:PRO:HB3	16	0.22
(2,107)	1:231:A:ILE:HG12	1:52:A:ALA:H	15	0.22
(2,93)	1:168:A:LEU:HA	1:143:A:LEU:HG	3	0.22
(2,92)	1:167:A:CYS:HB3	1:139:A:ILE:HA	1	0.22
(2,92)	1:167:A:CYS:HB3	1:139:A:ILE:HA	20	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,72)	1:135:A:ASP:HB3	1:71:A:ALA:H	10	0.22
(2,46)	1:109:A:ARG:H	1:99:A:ASP:HB2	3	0.22
(2,45)	1:108:A:ALA:HB1	1:83:A:VAL:H	3	0.22
(2,45)	1:108:A:ALA:HB2	1:83:A:VAL:H	3	0.22
(2,45)	1:108:A:ALA:HB3	1:83:A:VAL:H	3	0.22
(2,45)	1:108:A:ALA:HB1	1:83:A:VAL:H	9	0.22
(2,45)	1:108:A:ALA:HB2	1:83:A:VAL:H	9	0.22
(2,45)	1:108:A:ALA:HB3	1:83:A:VAL:H	9	0.22
(1,2092)	2:300:A:SAH:HG1	1:38:A:ALA:HB1	6	0.22
(1,2092)	2:300:A:SAH:HG1	1:38:A:ALA:HB2	6	0.22
(1,2092)	2:300:A:SAH:HG1	1:38:A:ALA:HB3	6	0.22
(1,2066)	1:235:A:ARG:HB3	1:235:A:ARG:HD2	9	0.22
(1,2040)	1:230:A:ILE:HG21	1:230:A:ILE:H	5	0.22
(1,2040)	1:230:A:ILE:HG22	1:230:A:ILE:H	5	0.22
(1,2040)	1:230:A:ILE:HG23	1:230:A:ILE:H	5	0.22
(1,1932)	1:169:A:THR:HA	1:169:A:THR:HG21	13	0.22
(1,1932)	1:169:A:THR:HA	1:169:A:THR:HG22	13	0.22
(1,1932)	1:169:A:THR:HA	1:169:A:THR:HG23	13	0.22
(1,1932)	1:169:A:THR:HA	1:169:A:THR:HG21	14	0.22
(1,1932)	1:169:A:THR:HA	1:169:A:THR:HG22	14	0.22
(1,1932)	1:169:A:THR:HA	1:169:A:THR:HG23	14	0.22
(1,1645)	1:17:A:ARG:HD2	1:17:A:ARG:HA	2	0.22
(1,1645)	1:17:A:ARG:HD2	1:17:A:ARG:HA	6	0.22
(1,1478)	1:226:A:PHE:HB3	1:226:A:PHE:H	10	0.22
(1,1478)	1:226:A:PHE:HB3	1:226:A:PHE:H	14	0.22
(1,1478)	1:226:A:PHE:HB3	1:226:A:PHE:H	16	0.22
(1,1478)	1:226:A:PHE:HB3	1:226:A:PHE:H	19	0.22
(1,1113)	1:232:A:TYR:H	1:231:A:ILE:HG12	14	0.22
(1,1112)	1:232:A:TYR:HB3	1:231:A:ILE:HD11	13	0.22
(1,1112)	1:232:A:TYR:HB3	1:231:A:ILE:HD12	13	0.22
(1,1112)	1:232:A:TYR:HB3	1:231:A:ILE:HD13	13	0.22
(1,1058)	1:149:A:PRO:HD3	1:148:A:VAL:HB	10	0.22
(1,1036)	1:122:A:LEU:HD11	1:121:A:THR:H	12	0.22
(1,1036)	1:122:A:LEU:HD12	1:121:A:THR:H	12	0.22
(1,1036)	1:122:A:LEU:HD13	1:121:A:THR:H	12	0.22
(1,1028)	1:114:A:TYR:H	1:113:A:LEU:HG	1	0.22
(1,1028)	1:114:A:TYR:H	1:113:A:LEU:HG	16	0.22
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG21	1	0.22
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG22	1	0.22
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG23	1	0.22
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG21	10	0.22
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG22	10	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG23	10	0.22
(1,984)	1:54:A:ARG:H	1:53:A:PRO:HD3	1	0.22
(1,931)	1:191:A:GLU:HB2	1:192:A:ARG:H	12	0.22
(1,879)	1:115:A:HIS:HB3	1:116:A:HIS:H	7	0.22
(1,864)	1:88:A:GLN:HB2	1:89:A:ALA:H	17	0.22
(1,850)	1:62:A:ARG:HB2	1:63:A:ALA:H	8	0.22
(1,835)	1:42:A:ASP:HB2	1:43:A:GLN:H	13	0.22
(1,725)	1:91:A:GLY:HA2	1:92:A:PHE:H	16	0.22
(1,557)	1:232:A:TYR:H	1:230:A:ILE:HG21	1	0.22
(1,557)	1:232:A:TYR:H	1:230:A:ILE:HG22	1	0.22
(1,557)	1:232:A:TYR:H	1:230:A:ILE:HG23	1	0.22
(1,557)	1:232:A:TYR:H	1:230:A:ILE:HG21	15	0.22
(1,557)	1:232:A:TYR:H	1:230:A:ILE:HG22	15	0.22
(1,557)	1:232:A:TYR:H	1:230:A:ILE:HG23	15	0.22
(1,545)	1:172:A:THR:H	1:170:A:THR:HG21	1	0.22
(1,545)	1:172:A:THR:H	1:170:A:THR:HG22	1	0.22
(1,545)	1:172:A:THR:H	1:170:A:THR:HG23	1	0.22
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG21	18	0.22
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG22	18	0.22
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG23	18	0.22
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG11	2	0.22
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG12	2	0.22
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG13	2	0.22
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG11	19	0.22
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG12	19	0.22
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG13	19	0.22
(1,502)	1:60:A:LEU:HD21	1:57:A:VAL:HA	16	0.22
(1,502)	1:60:A:LEU:HD22	1:57:A:VAL:HA	16	0.22
(1,502)	1:60:A:LEU:HD23	1:57:A:VAL:HA	16	0.22
(1,477)	1:206:A:HIS:H	1:204:A:VAL:HB	9	0.22
(1,452)	1:28:A:ALA:H	1:26:A:ASP:HB2	19	0.22
(1,452)	1:28:A:ALA:H	1:26:A:ASP:HB3	19	0.22
(1,349)	1:237:A:GLN:HE21	1:195:A:VAL:HA	20	0.22
(1,349)	1:237:A:GLN:HE22	1:195:A:VAL:HA	20	0.22
(1,333)	1:233:A:LEU:HD21	1:202:A:GLN:HE21	9	0.22
(1,333)	1:233:A:LEU:HD22	1:202:A:GLN:HE21	9	0.22
(1,333)	1:233:A:LEU:HD23	1:202:A:GLN:HE21	9	0.22
(1,316)	1:231:A:ILE:HD11	1:52:A:ALA:H	11	0.22
(1,316)	1:231:A:ILE:HD12	1:52:A:ALA:H	11	0.22
(1,316)	1:231:A:ILE:HD13	1:52:A:ALA:H	11	0.22
(1,310)	1:228:A:SER:HA	1:174:A:PRO:HD3	15	0.22
(1,301)	1:210:A:ALA:HB1	1:177:A:LEU:HB2	6	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,301)	1:210:A:ALA:HB1	1:177:A:LEU:HB3	6	0.22
(1,301)	1:210:A:ALA:HB2	1:177:A:LEU:HB2	6	0.22
(1,301)	1:210:A:ALA:HB2	1:177:A:LEU:HB3	6	0.22
(1,301)	1:210:A:ALA:HB3	1:177:A:LEU:HB2	6	0.22
(1,301)	1:210:A:ALA:HB3	1:177:A:LEU:HB3	6	0.22
(1,297)	1:196:A:TRP:HE1	1:191:A:GLU:HB3	19	0.22
(1,258)	1:166:A:VAL:HG11	1:157:A:LEU:HA	5	0.22
(1,258)	1:166:A:VAL:HG12	1:157:A:LEU:HA	5	0.22
(1,258)	1:166:A:VAL:HG13	1:157:A:LEU:HA	5	0.22
(1,251)	1:159:A:VAL:HG21	1:134:A:PHE:H	3	0.22
(1,251)	1:159:A:VAL:HG22	1:134:A:PHE:H	3	0.22
(1,251)	1:159:A:VAL:HG23	1:134:A:PHE:H	3	0.22
(1,249)	1:159:A:VAL:HB	1:132:A:GLY:H	2	0.22
(1,237)	1:149:A:PRO:HB3	1:123:A:GLY:HA3	5	0.22
(1,188)	1:120:A:CYS:H	1:98:A:VAL:HB	17	0.22
(1,168)	1:117:A:LEU:HB2	1:97:A:GLY:H	3	0.22
(1,168)	1:117:A:LEU:HB2	1:97:A:GLY:H	9	0.22
(1,154)	1:114:A:TYR:HE1	1:97:A:GLY:H	6	0.22
(1,154)	1:114:A:TYR:HE2	1:97:A:GLY:H	6	0.22
(1,154)	1:114:A:TYR:HE1	1:97:A:GLY:H	10	0.22
(1,154)	1:114:A:TYR:HE2	1:97:A:GLY:H	10	0.22
(1,154)	1:114:A:TYR:HE1	1:97:A:GLY:H	13	0.22
(1,154)	1:114:A:TYR:HE2	1:97:A:GLY:H	13	0.22
(1,154)	1:114:A:TYR:HE1	1:97:A:GLY:H	19	0.22
(1,154)	1:114:A:TYR:HE2	1:97:A:GLY:H	19	0.22
(1,130)	1:100:A:GLY:H	1:31:A:LEU:HD11	18	0.22
(1,130)	1:100:A:GLY:H	1:31:A:LEU:HD12	18	0.22
(1,130)	1:100:A:GLY:H	1:31:A:LEU:HD13	18	0.22
(1,101)	1:92:A:PHE:H	1:87:A:LEU:HD21	17	0.22
(1,101)	1:92:A:PHE:H	1:87:A:LEU:HD22	17	0.22
(1,101)	1:92:A:PHE:H	1:87:A:LEU:HD23	17	0.22
(1,100)	1:92:A:PHE:HE1	1:68:A:PRO:HB2	6	0.22
(1,72)	1:235:A:ARG:H	1:198:A:CYS:HA	3	0.22
(1,40)	1:100:A:GLY:H	1:121:A:THR:HA	10	0.22
(1,18)	1:229:A:GLY:H	1:170:A:THR:H	8	0.22
(1,18)	1:229:A:GLY:H	1:170:A:THR:H	19	0.22
(5,13)	1:240:A:VAL:H	1:191:A:GLU:O	12	0.21
(5,13)	1:240:A:VAL:H	1:191:A:GLU:O	14	0.21
(5,13)	1:240:A:VAL:H	1:191:A:GLU:O	17	0.21
(5,11)	1:223:A:ASN:H	1:220:A:THR:O	5	0.21
(4,225)	1:236:A:LYS:H	1:164:A:GLY:O	13	0.21
(4,215)	1:230:A:ILE:H	1:170:A:THR:O	8	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,213)	1:229:A:GLY:H	1:170:A:THR:O	18	0.21
(4,213)	1:229:A:GLY:H	1:170:A:THR:O	19	0.21
(4,209)	1:219:A:GLY:H	1:216:A:THR:O	15	0.21
(4,205)	1:200:A:VAL:H	1:233:A:LEU:O	6	0.21
(4,205)	1:200:A:VAL:H	1:233:A:LEU:O	19	0.21
(4,174)	1:182:A:THR:N	1:178:A:PRO:O	1	0.21
(4,171)	1:181:A:GLU:H	1:178:A:PRO:O	1	0.21
(4,165)	1:169:A:THR:H	1:139:A:ILE:O	1	0.21
(4,165)	1:169:A:THR:H	1:139:A:ILE:O	4	0.21
(4,137)	1:140:A:VAL:H	1:78:A:CYS:O	10	0.21
(4,137)	1:140:A:VAL:H	1:78:A:CYS:O	16	0.21
(4,122)	1:123:A:GLY:N	1:125:A:GLU:O	12	0.21
(4,120)	1:120:A:CYS:N	1:99:A:ASP:O	2	0.21
(4,120)	1:120:A:CYS:N	1:99:A:ASP:O	6	0.21
(4,120)	1:120:A:CYS:N	1:99:A:ASP:O	7	0.21
(4,113)	1:114:A:TYR:H	1:108:A:ALA:O	12	0.21
(4,112)	1:113:A:LEU:N	1:108:A:ALA:O	5	0.21
(4,112)	1:113:A:LEU:N	1:108:A:ALA:O	12	0.21
(4,112)	1:113:A:LEU:N	1:108:A:ALA:O	20	0.21
(4,70)	1:81:A:GLY:N	1:107:A:GLN:OE1	3	0.21
(4,55)	1:72:A:LEU:H	1:135:A:ASP:OD1	7	0.21
(4,51)	1:69:A:HIS:H	1:67:A:SER:O	4	0.21
(4,11)	1:14:A:VAL:H	1:10:A:ARG:O	17	0.21
(4,5)	1:8:A:ALA:H	1:4:A:ALA:O	13	0.21
(2,198)	1:206:A:HIS:HB2	1:204:A:VAL:HG11	19	0.21
(2,198)	1:206:A:HIS:HB2	1:204:A:VAL:HG12	19	0.21
(2,198)	1:206:A:HIS:HB2	1:204:A:VAL:HG13	19	0.21
(2,162)	1:153:A:ILE:H	1:149:A:PRO:HB3	2	0.21
(2,162)	1:153:A:ILE:H	1:149:A:PRO:HB3	14	0.21
(2,93)	1:168:A:LEU:HA	1:143:A:LEU:HG	2	0.21
(2,46)	1:109:A:ARG:H	1:99:A:ASP:HB2	5	0.21
(2,46)	1:109:A:ARG:H	1:99:A:ASP:HB2	8	0.21
(2,42)	1:99:A:ASP:HB2	1:79:A:GLY:H	20	0.21
(1,2087)	2:300:A:SAH:HA	1:37:A:TRP:HB2	1	0.21
(1,2087)	2:300:A:SAH:HA	1:37:A:TRP:HB3	1	0.21
(1,2040)	1:230:A:ILE:HG21	1:230:A:ILE:H	17	0.21
(1,2040)	1:230:A:ILE:HG22	1:230:A:ILE:H	17	0.21
(1,2040)	1:230:A:ILE:HG23	1:230:A:ILE:H	17	0.21
(1,2013)	1:200:A:VAL:H	1:200:A:VAL:HG21	3	0.21
(1,2013)	1:200:A:VAL:H	1:200:A:VAL:HG22	3	0.21
(1,2013)	1:200:A:VAL:H	1:200:A:VAL:HG23	3	0.21
(1,1994)	1:192:A:ARG:HB2	1:192:A:ARG:HD3	3	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1932)	1:169:A:THR:HA	1:169:A:THR:HG21	1	0.21
(1,1932)	1:169:A:THR:HA	1:169:A:THR:HG22	1	0.21
(1,1932)	1:169:A:THR:HA	1:169:A:THR:HG23	1	0.21
(1,1932)	1:169:A:THR:HA	1:169:A:THR:HG21	7	0.21
(1,1932)	1:169:A:THR:HA	1:169:A:THR:HG22	7	0.21
(1,1932)	1:169:A:THR:HA	1:169:A:THR:HG23	7	0.21
(1,1932)	1:169:A:THR:HA	1:169:A:THR:HG21	9	0.21
(1,1932)	1:169:A:THR:HA	1:169:A:THR:HG22	9	0.21
(1,1932)	1:169:A:THR:HA	1:169:A:THR:HG23	9	0.21
(1,1932)	1:169:A:THR:HA	1:169:A:THR:HG21	16	0.21
(1,1932)	1:169:A:THR:HA	1:169:A:THR:HG22	16	0.21
(1,1932)	1:169:A:THR:HA	1:169:A:THR:HG23	16	0.21
(1,1932)	1:169:A:THR:HA	1:169:A:THR:HG21	19	0.21
(1,1932)	1:169:A:THR:HA	1:169:A:THR:HG22	19	0.21
(1,1932)	1:169:A:THR:HA	1:169:A:THR:HG23	19	0.21
(1,1917)	1:159:A:VAL:HG11	1:159:A:VAL:H	2	0.21
(1,1917)	1:159:A:VAL:HG12	1:159:A:VAL:H	2	0.21
(1,1917)	1:159:A:VAL:HG13	1:159:A:VAL:H	2	0.21
(1,1871)	1:138:A:ILE:HA	1:138:A:ILE:HG12	5	0.21
(1,1871)	1:138:A:ILE:HA	1:138:A:ILE:HG12	8	0.21
(1,1768)	1:93:A:LEU:HD11	1:93:A:LEU:H	6	0.21
(1,1768)	1:93:A:LEU:HD12	1:93:A:LEU:H	6	0.21
(1,1768)	1:93:A:LEU:HD13	1:93:A:LEU:H	6	0.21
(1,1768)	1:93:A:LEU:HD11	1:93:A:LEU:H	13	0.21
(1,1768)	1:93:A:LEU:HD12	1:93:A:LEU:H	13	0.21
(1,1768)	1:93:A:LEU:HD13	1:93:A:LEU:H	13	0.21
(1,1765)	1:92:A:PHE:H	1:92:A:PHE:HE1	6	0.21
(1,1393)	1:116:A:HIS:HB2	1:116:A:HIS:H	13	0.21
(1,1377)	1:96:A:GLN:HB3	1:96:A:GLN:H	17	0.21
(1,1118)	1:238:A:GLU:H	1:237:A:GLN:HG2	2	0.21
(1,1065)	1:154:A:PRO:HD3	1:153:A:ILE:HG13	14	0.21
(1,1064)	1:154:A:PRO:HD2	1:153:A:ILE:HG13	4	0.21
(1,1051)	1:137:A:VAL:HG11	1:136:A:ALA:H	16	0.21
(1,1051)	1:137:A:VAL:HG12	1:136:A:ALA:H	16	0.21
(1,1051)	1:137:A:VAL:HG13	1:136:A:ALA:H	16	0.21
(1,1036)	1:122:A:LEU:HD11	1:121:A:THR:H	16	0.21
(1,1036)	1:122:A:LEU:HD12	1:121:A:THR:H	16	0.21
(1,1036)	1:122:A:LEU:HD13	1:121:A:THR:H	16	0.21
(1,1018)	1:94:A:GLN:HG2	1:93:A:LEU:H	13	0.21
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG21	19	0.21
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG22	19	0.21
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG23	19	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,963)	1:238:A:GLU:HB2	1:239:A:THR:H	15	0.21
(1,945)	1:222:A:ALA:HB1	1:223:A:ASN:H	5	0.21
(1,945)	1:222:A:ALA:HB2	1:223:A:ASN:H	5	0.21
(1,945)	1:222:A:ALA:HB3	1:223:A:ASN:H	5	0.21
(1,938)	1:199:A:LEU:HB2	1:200:A:VAL:H	15	0.21
(1,931)	1:191:A:GLU:HB2	1:192:A:ARG:H	8	0.21
(1,931)	1:191:A:GLU:HB2	1:192:A:ARG:H	11	0.21
(1,931)	1:191:A:GLU:HB2	1:192:A:ARG:H	14	0.21
(1,879)	1:115:A:HIS:HB3	1:116:A:HIS:H	9	0.21
(1,855)	1:70:A:ASP:HB3	1:69:A:HIS:H	7	0.21
(1,839)	1:44:A:ASP:HB3	1:45:A:VAL:H	3	0.21
(1,520)	1:113:A:LEU:HB3	1:111:A:ARG:HG3	12	0.21
(1,520)	1:113:A:LEU:HB3	1:111:A:ARG:HG3	19	0.21
(1,507)	1:68:A:PRO:HA	1:64:A:PHE:HZ	17	0.21
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG11	6	0.21
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG12	6	0.21
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG13	6	0.21
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG11	8	0.21
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG12	8	0.21
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG13	8	0.21
(1,494)	1:14:A:VAL:H	1:11:A:LEU:HD11	6	0.21
(1,494)	1:14:A:VAL:H	1:11:A:LEU:HD12	6	0.21
(1,494)	1:14:A:VAL:H	1:11:A:LEU:HD13	6	0.21
(1,452)	1:28:A:ALA:H	1:26:A:ASP:HB2	4	0.21
(1,452)	1:28:A:ALA:H	1:26:A:ASP:HB3	4	0.21
(1,452)	1:28:A:ALA:H	1:26:A:ASP:HB2	13	0.21
(1,452)	1:28:A:ALA:H	1:26:A:ASP:HB3	13	0.21
(1,408)	1:12:A:PRO:HA	1:15:A:LEU:H	13	0.21
(1,406)	1:10:A:ARG:HA	1:13:A:GLN:H	12	0.21
(1,403)	1:176:A:ASN:HA	1:180:A:LYS:H	7	0.21
(1,352)	1:237:A:GLN:HG2	1:196:A:TRP:H	17	0.21
(1,352)	1:237:A:GLN:HG3	1:196:A:TRP:H	17	0.21
(1,349)	1:237:A:GLN:HE21	1:195:A:VAL:HA	2	0.21
(1,349)	1:237:A:GLN:HE22	1:195:A:VAL:HA	2	0.21
(1,345)	1:236:A:LYS:HA	1:196:A:TRP:HB3	7	0.21
(1,345)	1:236:A:LYS:HA	1:196:A:TRP:HB3	10	0.21
(1,345)	1:236:A:LYS:HA	1:196:A:TRP:HB3	14	0.21
(1,340)	1:235:A:ARG:HD2	1:163:A:GLY:HA2	16	0.21
(1,340)	1:235:A:ARG:HD3	1:163:A:GLY:HA2	16	0.21
(1,327)	1:232:A:TYR:HE1	1:169:A:THR:HA	17	0.21
(1,327)	1:232:A:TYR:HE2	1:169:A:THR:HA	17	0.21
(1,313)	1:229:A:GLY:H	1:204:A:VAL:HG11	2	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,313)	1:229:A:GLY:H	1:204:A:VAL:HG12	2	0.21
(1,313)	1:229:A:GLY:H	1:204:A:VAL:HG13	2	0.21
(1,309)	1:227:A:ILE:H	1:210:A:ALA:HB1	13	0.21
(1,309)	1:227:A:ILE:H	1:210:A:ALA:HB2	13	0.21
(1,309)	1:227:A:ILE:H	1:210:A:ALA:HB3	13	0.21
(1,297)	1:196:A:TRP:HE1	1:191:A:GLU:HB3	9	0.21
(1,258)	1:166:A:VAL:HG11	1:157:A:LEU:HA	14	0.21
(1,258)	1:166:A:VAL:HG12	1:157:A:LEU:HA	14	0.21
(1,258)	1:166:A:VAL:HG13	1:157:A:LEU:HA	14	0.21
(1,258)	1:166:A:VAL:HG11	1:157:A:LEU:HA	20	0.21
(1,258)	1:166:A:VAL:HG12	1:157:A:LEU:HA	20	0.21
(1,258)	1:166:A:VAL:HG13	1:157:A:LEU:HA	20	0.21
(1,237)	1:149:A:PRO:HB3	1:123:A:GLY:HA3	18	0.21
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD11	5	0.21
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD12	5	0.21
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD13	5	0.21
(1,203)	1:134:A:PHE:HA	1:72:A:LEU:HB2	4	0.21
(1,188)	1:120:A:CYS:H	1:98:A:VAL:HB	1	0.21
(1,154)	1:114:A:TYR:HE1	1:97:A:GLY:H	5	0.21
(1,154)	1:114:A:TYR:HE2	1:97:A:GLY:H	5	0.21
(1,143)	1:108:A:ALA:HB1	1:79:A:GLY:H	16	0.21
(1,143)	1:108:A:ALA:HB2	1:79:A:GLY:H	16	0.21
(1,143)	1:108:A:ALA:HB3	1:79:A:GLY:H	16	0.21
(1,143)	1:108:A:ALA:HB1	1:79:A:GLY:H	20	0.21
(1,143)	1:108:A:ALA:HB2	1:79:A:GLY:H	20	0.21
(1,143)	1:108:A:ALA:HB3	1:79:A:GLY:H	20	0.21
(1,132)	1:100:A:GLY:HA2	1:31:A:LEU:HD11	11	0.21
(1,132)	1:100:A:GLY:HA2	1:31:A:LEU:HD12	11	0.21
(1,132)	1:100:A:GLY:HA2	1:31:A:LEU:HD13	11	0.21
(1,132)	1:100:A:GLY:HA3	1:31:A:LEU:HD11	11	0.21
(1,132)	1:100:A:GLY:HA3	1:31:A:LEU:HD12	11	0.21
(1,132)	1:100:A:GLY:HA3	1:31:A:LEU:HD13	11	0.21
(1,132)	1:100:A:GLY:HA2	1:31:A:LEU:HD11	15	0.21
(1,132)	1:100:A:GLY:HA2	1:31:A:LEU:HD12	15	0.21
(1,132)	1:100:A:GLY:HA2	1:31:A:LEU:HD13	15	0.21
(1,132)	1:100:A:GLY:HA3	1:31:A:LEU:HD11	15	0.21
(1,132)	1:100:A:GLY:HA3	1:31:A:LEU:HD12	15	0.21
(1,132)	1:100:A:GLY:HA3	1:31:A:LEU:HD13	15	0.21
(1,131)	1:100:A:GLY:H	1:31:A:LEU:HD21	5	0.21
(1,131)	1:100:A:GLY:H	1:31:A:LEU:HD22	5	0.21
(1,131)	1:100:A:GLY:H	1:31:A:LEU:HD23	5	0.21
(1,109)	1:94:A:GLN:HE22	1:72:A:LEU:HB3	6	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,100)	1:92:A:PHE:HE1	1:68:A:PRO:HB2	4	0.21
(1,100)	1:92:A:PHE:HE1	1:68:A:PRO:HB2	7	0.21
(1,81)	1:27:A:LEU:HD11	1:17:A:ARG:HD2	10	0.21
(1,81)	1:27:A:LEU:HD12	1:17:A:ARG:HD2	10	0.21
(1,81)	1:27:A:LEU:HD13	1:17:A:ARG:HD2	10	0.21
(1,81)	1:27:A:LEU:HD11	1:17:A:ARG:HD2	14	0.21
(1,81)	1:27:A:LEU:HD12	1:17:A:ARG:HD2	14	0.21
(1,81)	1:27:A:LEU:HD13	1:17:A:ARG:HD2	14	0.21
(1,40)	1:100:A:GLY:H	1:121:A:THR:HA	6	0.21
(1,28)	1:237:A:GLN:H	1:197:A:GLU:H	20	0.21
(5,10)	1:222:A:ALA:N	1:219:A:GLY:O	6	0.2
(5,3)	1:92:A:PHE:H	1:87:A:LEU:O	18	0.2
(4,213)	1:229:A:GLY:H	1:170:A:THR:O	6	0.2
(4,205)	1:200:A:VAL:H	1:233:A:LEU:O	13	0.2
(4,200)	1:196:A:TRP:N	1:190:A:LEU:O	2	0.2
(4,197)	1:195:A:VAL:H	1:190:A:LEU:O	12	0.2
(4,174)	1:182:A:THR:N	1:178:A:PRO:O	14	0.2
(4,157)	1:165:A:LEU:H	1:135:A:ASP:O	16	0.2
(4,137)	1:140:A:VAL:H	1:78:A:CYS:O	5	0.2
(4,120)	1:120:A:CYS:N	1:99:A:ASP:O	10	0.2
(4,120)	1:120:A:CYS:N	1:99:A:ASP:O	15	0.2
(4,115)	1:116:A:HIS:H	1:95:A:VAL:O	9	0.2
(4,113)	1:114:A:TYR:H	1:108:A:ALA:O	8	0.2
(4,89)	1:94:A:GLN:H	1:68:A:PRO:O	16	0.2
(4,87)	1:93:A:LEU:H	1:68:A:PRO:O	1	0.2
(4,81)	1:89:A:ALA:H	1:85:A:VAL:O	18	0.2
(4,69)	1:81:A:GLY:H	1:107:A:GLN:OE1	20	0.2
(4,55)	1:72:A:LEU:H	1:135:A:ASP:OD1	4	0.2
(4,55)	1:72:A:LEU:H	1:135:A:ASP:OD1	11	0.2
(4,51)	1:69:A:HIS:H	1:67:A:SER:O	12	0.2
(4,19)	1:29:A:CYS:H	1:25:A:THR:O	6	0.2
(4,10)	1:11:A:LEU:N	1:146:A:GLY:O	18	0.2
(4,8)	1:9:A:GLY:N	1:5:A:GLN:O	13	0.2
(2,194)	1:183:A:LEU:HG	1:181:A:GLU:H	6	0.2
(2,192)	1:159:A:VAL:H	1:156:A:LEU:HD11	14	0.2
(2,192)	1:159:A:VAL:H	1:156:A:LEU:HD12	14	0.2
(2,192)	1:159:A:VAL:H	1:156:A:LEU:HD13	14	0.2
(2,103)	1:227:A:ILE:HG21	1:173:A:ASN:HB2	15	0.2
(2,103)	1:227:A:ILE:HG22	1:173:A:ASN:HB2	15	0.2
(2,103)	1:227:A:ILE:HG23	1:173:A:ASN:HB2	15	0.2
(2,98)	1:210:A:ALA:HB1	1:177:A:LEU:HA	6	0.2
(2,98)	1:210:A:ALA:HB2	1:177:A:LEU:HA	6	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,98)	1:210:A:ALA:HB3	1:177:A:LEU:HA	6	0.2
(2,92)	1:167:A:CYS:HB3	1:139:A:ILE:HA	2	0.2
(2,46)	1:109:A:ARG:H	1:99:A:ASP:HB2	10	0.2
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD21	15	0.2
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD22	15	0.2
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD23	15	0.2
(1,2097)	2:300:A:SAH:H1'	1:100:A:GLY:H	6	0.2
(1,1962)	1:184:A:GLU:HA	1:184:A:GLU:HG3	9	0.2
(1,1962)	1:184:A:GLU:HA	1:184:A:GLU:HG3	16	0.2
(1,1932)	1:169:A:THR:HA	1:169:A:THR:HG21	10	0.2
(1,1932)	1:169:A:THR:HA	1:169:A:THR:HG22	10	0.2
(1,1932)	1:169:A:THR:HA	1:169:A:THR:HG23	10	0.2
(1,1932)	1:169:A:THR:HA	1:169:A:THR:HG21	11	0.2
(1,1932)	1:169:A:THR:HA	1:169:A:THR:HG22	11	0.2
(1,1932)	1:169:A:THR:HA	1:169:A:THR:HG23	11	0.2
(1,1645)	1:17:A:ARG:HD2	1:17:A:ARG:HA	16	0.2
(1,1645)	1:17:A:ARG:HD2	1:17:A:ARG:HA	17	0.2
(1,1393)	1:116:A:HIS:HB2	1:116:A:HIS:H	16	0.2
(1,1377)	1:96:A:GLN:HB3	1:96:A:GLN:H	8	0.2
(1,1357)	1:75:A:ASP:HB3	1:75:A:ASP:H	1	0.2
(1,1118)	1:238:A:GLU:H	1:237:A:GLN:HG2	1	0.2
(1,1097)	1:201:A:THR:H	1:200:A:VAL:HG21	12	0.2
(1,1097)	1:201:A:THR:H	1:200:A:VAL:HG22	12	0.2
(1,1097)	1:201:A:THR:H	1:200:A:VAL:HG23	12	0.2
(1,1082)	1:184:A:GLU:HG2	1:183:A:LEU:HG	9	0.2
(1,1030)	1:116:A:HIS:HB2	1:115:A:HIS:HB3	6	0.2
(1,1028)	1:114:A:TYR:H	1:113:A:LEU:HG	11	0.2
(1,1028)	1:114:A:TYR:H	1:113:A:LEU:HG	20	0.2
(1,1018)	1:94:A:GLN:HG2	1:93:A:LEU:H	4	0.2
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG21	11	0.2
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG22	11	0.2
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG23	11	0.2
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG21	16	0.2
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG22	16	0.2
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG23	16	0.2
(1,963)	1:238:A:GLU:HB2	1:239:A:THR:H	10	0.2
(1,942)	1:205:A:ASP:HB3	1:206:A:HIS:H	9	0.2
(1,931)	1:191:A:GLU:HB2	1:192:A:ARG:H	1	0.2
(1,884)	1:118:A:SER:HB3	1:119:A:LEU:H	2	0.2
(1,864)	1:88:A:GLN:HB2	1:89:A:ALA:H	13	0.2
(1,544)	1:172:A:THR:HG21	1:170:A:THR:H	19	0.2
(1,544)	1:172:A:THR:HG22	1:170:A:THR:H	19	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,544)	1:172:A:THR:HG23	1:170:A:THR:H	19	0.2
(1,531)	1:133:A:THR:HG21	1:129:A:ASP:HB2	10	0.2
(1,531)	1:133:A:THR:HG22	1:129:A:ASP:HB2	10	0.2
(1,531)	1:133:A:THR:HG23	1:129:A:ASP:HB2	10	0.2
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG11	10	0.2
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG12	10	0.2
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG13	10	0.2
(1,497)	1:45:A:VAL:HG11	1:42:A:ASP:HA	5	0.2
(1,497)	1:45:A:VAL:HG12	1:42:A:ASP:HA	5	0.2
(1,497)	1:45:A:VAL:HG13	1:42:A:ASP:HA	5	0.2
(1,455)	1:58:A:ASP:H	1:54:A:ARG:HB2	1	0.2
(1,455)	1:58:A:ASP:H	1:54:A:ARG:HB3	1	0.2
(1,452)	1:28:A:ALA:H	1:26:A:ASP:HB2	5	0.2
(1,452)	1:28:A:ALA:H	1:26:A:ASP:HB3	5	0.2
(1,452)	1:28:A:ALA:H	1:26:A:ASP:HB2	6	0.2
(1,452)	1:28:A:ALA:H	1:26:A:ASP:HB3	6	0.2
(1,452)	1:28:A:ALA:H	1:26:A:ASP:HB2	7	0.2
(1,452)	1:28:A:ALA:H	1:26:A:ASP:HB3	7	0.2
(1,452)	1:28:A:ALA:H	1:26:A:ASP:HB2	16	0.2
(1,452)	1:28:A:ALA:H	1:26:A:ASP:HB3	16	0.2
(1,451)	1:14:A:VAL:H	1:17:A:ARG:HB3	11	0.2
(1,403)	1:176:A:ASN:HA	1:180:A:LYS:H	16	0.2
(1,403)	1:176:A:ASN:HA	1:180:A:LYS:H	19	0.2
(1,352)	1:237:A:GLN:HG2	1:196:A:TRP:H	13	0.2
(1,352)	1:237:A:GLN:HG3	1:196:A:TRP:H	13	0.2
(1,328)	1:232:A:TYR:HE1	1:187:A:LEU:HD11	6	0.2
(1,328)	1:232:A:TYR:HE1	1:187:A:LEU:HD12	6	0.2
(1,328)	1:232:A:TYR:HE1	1:187:A:LEU:HD13	6	0.2
(1,328)	1:232:A:TYR:HE2	1:187:A:LEU:HD11	6	0.2
(1,328)	1:232:A:TYR:HE2	1:187:A:LEU:HD12	6	0.2
(1,328)	1:232:A:TYR:HE2	1:187:A:LEU:HD13	6	0.2
(1,315)	1:230:A:ILE:H	1:172:A:THR:HG21	5	0.2
(1,315)	1:230:A:ILE:H	1:172:A:THR:HG22	5	0.2
(1,315)	1:230:A:ILE:H	1:172:A:THR:HG23	5	0.2
(1,311)	1:228:A:SER:HA	1:174:A:PRO:HD2	10	0.2
(1,297)	1:196:A:TRP:HE1	1:191:A:GLU:HB3	15	0.2
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG11	2	0.2
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG12	2	0.2
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG13	2	0.2
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG11	2	0.2
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG12	2	0.2
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG13	2	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG11	2	0.2
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG12	2	0.2
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG13	2	0.2
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG11	3	0.2
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG12	3	0.2
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG13	3	0.2
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG11	3	0.2
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG12	3	0.2
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG13	3	0.2
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG11	3	0.2
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG12	3	0.2
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG13	3	0.2
(1,234)	1:140:A:VAL:HG21	1:45:A:VAL:HG21	19	0.2
(1,234)	1:140:A:VAL:HG21	1:45:A:VAL:HG22	19	0.2
(1,234)	1:140:A:VAL:HG21	1:45:A:VAL:HG23	19	0.2
(1,234)	1:140:A:VAL:HG22	1:45:A:VAL:HG21	19	0.2
(1,234)	1:140:A:VAL:HG22	1:45:A:VAL:HG22	19	0.2
(1,234)	1:140:A:VAL:HG22	1:45:A:VAL:HG23	19	0.2
(1,234)	1:140:A:VAL:HG23	1:45:A:VAL:HG21	19	0.2
(1,234)	1:140:A:VAL:HG23	1:45:A:VAL:HG22	19	0.2
(1,234)	1:140:A:VAL:HG23	1:45:A:VAL:HG23	19	0.2
(1,231)	1:138:A:ILE:HG21	1:75:A:ASP:HB2	3	0.2
(1,231)	1:138:A:ILE:HG22	1:75:A:ASP:HB2	3	0.2
(1,231)	1:138:A:ILE:HG23	1:75:A:ASP:HB2	3	0.2
(1,194)	1:122:A:LEU:HB2	1:15:A:LEU:H	6	0.2
(1,178)	1:118:A:SER:HB2	1:98:A:VAL:HG11	5	0.2
(1,178)	1:118:A:SER:HB2	1:98:A:VAL:HG12	5	0.2
(1,178)	1:118:A:SER:HB2	1:98:A:VAL:HG13	5	0.2
(1,178)	1:118:A:SER:HB2	1:98:A:VAL:HG11	18	0.2
(1,178)	1:118:A:SER:HB2	1:98:A:VAL:HG12	18	0.2
(1,178)	1:118:A:SER:HB2	1:98:A:VAL:HG13	18	0.2
(1,168)	1:117:A:LEU:HB2	1:97:A:GLY:H	13	0.2
(1,143)	1:108:A:ALA:HB1	1:79:A:GLY:H	10	0.2
(1,143)	1:108:A:ALA:HB2	1:79:A:GLY:H	10	0.2
(1,143)	1:108:A:ALA:HB3	1:79:A:GLY:H	10	0.2
(1,106)	1:94:A:GLN:HE22	1:70:A:ASP:HA	5	0.2
(1,54)	1:141:A:GLY:H	1:168:A:LEU:HA	14	0.2
(1,40)	1:100:A:GLY:H	1:121:A:THR:HA	1	0.2
(1,40)	1:100:A:GLY:H	1:121:A:THR:HA	3	0.2
(1,13)	1:161:A:LYS:H	1:134:A:PHE:H	17	0.2
(5,9)	1:222:A:ALA:H	1:219:A:GLY:O	20	0.19
(5,3)	1:92:A:PHE:H	1:87:A:LEU:O	4	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,225)	1:236:A:LYS:H	1:164:A:GLY:O	11	0.19
(4,213)	1:229:A:GLY:H	1:170:A:THR:O	8	0.19
(4,211)	1:225:A:GLY:H	1:210:A:ALA:O	2	0.19
(4,211)	1:225:A:GLY:H	1:210:A:ALA:O	6	0.19
(4,211)	1:225:A:GLY:H	1:210:A:ALA:O	14	0.19
(4,209)	1:219:A:GLY:H	1:216:A:THR:O	1	0.19
(4,174)	1:182:A:THR:N	1:178:A:PRO:O	13	0.19
(4,165)	1:169:A:THR:H	1:139:A:ILE:O	17	0.19
(4,165)	1:169:A:THR:H	1:139:A:ILE:O	18	0.19
(4,138)	1:140:A:VAL:N	1:78:A:CYS:O	15	0.19
(4,138)	1:140:A:VAL:N	1:78:A:CYS:O	18	0.19
(4,137)	1:140:A:VAL:H	1:78:A:CYS:O	13	0.19
(4,122)	1:123:A:GLY:N	1:125:A:GLU:O	15	0.19
(4,120)	1:120:A:CYS:N	1:99:A:ASP:O	14	0.19
(4,120)	1:120:A:CYS:N	1:99:A:ASP:O	16	0.19
(4,120)	1:120:A:CYS:N	1:99:A:ASP:O	19	0.19
(4,117)	1:118:A:SER:H	1:97:A:GLY:O	7	0.19
(4,113)	1:114:A:TYR:H	1:108:A:ALA:O	4	0.19
(4,113)	1:114:A:TYR:H	1:108:A:ALA:O	9	0.19
(4,113)	1:114:A:TYR:H	1:108:A:ALA:O	11	0.19
(4,113)	1:114:A:TYR:H	1:108:A:ALA:O	16	0.19
(4,112)	1:113:A:LEU:N	1:108:A:ALA:O	14	0.19
(4,85)	1:91:A:GLY:H	1:87:A:LEU:O	5	0.19
(4,63)	1:77:A:ALA:H	1:98:A:VAL:O	18	0.19
(4,45)	1:61:A:SER:H	1:57:A:VAL:O	15	0.19
(2,193)	1:181:A:GLU:H	1:179:A:TYR:HD1	6	0.19
(2,193)	1:181:A:GLU:H	1:179:A:TYR:HD2	6	0.19
(2,193)	1:181:A:GLU:H	1:179:A:TYR:HD1	7	0.19
(2,193)	1:181:A:GLU:H	1:179:A:TYR:HD2	7	0.19
(2,192)	1:159:A:VAL:H	1:156:A:LEU:HD11	15	0.19
(2,192)	1:159:A:VAL:H	1:156:A:LEU:HD12	15	0.19
(2,192)	1:159:A:VAL:H	1:156:A:LEU:HD13	15	0.19
(2,162)	1:153:A:ILE:H	1:149:A:PRO:HB3	1	0.19
(2,158)	1:111:A:ARG:H	1:113:A:LEU:HB3	16	0.19
(2,107)	1:231:A:ILE:HG12	1:52:A:ALA:H	9	0.19
(2,106)	1:229:A:GLY:H	1:204:A:VAL:HB	19	0.19
(2,65)	1:121:A:THR:H	1:98:A:VAL:HB	6	0.19
(1,2103)	2:300:A:SAH:H2	1:121:A:THR:HG21	3	0.19
(1,2103)	2:300:A:SAH:H2	1:121:A:THR:HG22	3	0.19
(1,2103)	2:300:A:SAH:H2	1:121:A:THR:HG23	3	0.19
(1,2086)	2:300:A:SAH:HA	1:35:A:ASP:HA	6	0.19
(1,1994)	1:192:A:ARG:HB2	1:192:A:ARG:HD3	10	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1962)	1:184:A:GLU:HA	1:184:A:GLU:HG3	7	0.19
(1,1902)	1:156:A:LEU:H	1:156:A:LEU:HD11	9	0.19
(1,1902)	1:156:A:LEU:H	1:156:A:LEU:HD12	9	0.19
(1,1902)	1:156:A:LEU:H	1:156:A:LEU:HD13	9	0.19
(1,1871)	1:138:A:ILE:HA	1:138:A:ILE:HG12	20	0.19
(1,1768)	1:93:A:LEU:HD11	1:93:A:LEU:H	9	0.19
(1,1768)	1:93:A:LEU:HD12	1:93:A:LEU:H	9	0.19
(1,1768)	1:93:A:LEU:HD13	1:93:A:LEU:H	9	0.19
(1,1768)	1:93:A:LEU:HD11	1:93:A:LEU:H	10	0.19
(1,1768)	1:93:A:LEU:HD12	1:93:A:LEU:H	10	0.19
(1,1768)	1:93:A:LEU:HD13	1:93:A:LEU:H	10	0.19
(1,1765)	1:92:A:PHE:H	1:92:A:PHE:HE1	9	0.19
(1,1393)	1:116:A:HIS:HB2	1:116:A:HIS:H	20	0.19
(1,1377)	1:96:A:GLN:HB3	1:96:A:GLN:H	4	0.19
(1,1377)	1:96:A:GLN:HB3	1:96:A:GLN:H	9	0.19
(1,1377)	1:96:A:GLN:HB3	1:96:A:GLN:H	13	0.19
(1,1097)	1:201:A:THR:H	1:200:A:VAL:HG21	6	0.19
(1,1097)	1:201:A:THR:H	1:200:A:VAL:HG22	6	0.19
(1,1097)	1:201:A:THR:H	1:200:A:VAL:HG23	6	0.19
(1,1082)	1:184:A:GLU:HG2	1:183:A:LEU:HG	4	0.19
(1,1074)	1:169:A:THR:HG21	1:168:A:LEU:HA	16	0.19
(1,1074)	1:169:A:THR:HG22	1:168:A:LEU:HA	16	0.19
(1,1074)	1:169:A:THR:HG23	1:168:A:LEU:HA	16	0.19
(1,1064)	1:154:A:PRO:HD2	1:153:A:ILE:HG13	14	0.19
(1,1036)	1:122:A:LEU:HD11	1:121:A:THR:H	6	0.19
(1,1036)	1:122:A:LEU:HD12	1:121:A:THR:H	6	0.19
(1,1036)	1:122:A:LEU:HD13	1:121:A:THR:H	6	0.19
(1,1036)	1:122:A:LEU:HD11	1:121:A:THR:H	9	0.19
(1,1036)	1:122:A:LEU:HD12	1:121:A:THR:H	9	0.19
(1,1036)	1:122:A:LEU:HD13	1:121:A:THR:H	9	0.19
(1,1030)	1:116:A:HIS:HB2	1:115:A:HIS:HB3	19	0.19
(1,1028)	1:114:A:TYR:H	1:113:A:LEU:HG	3	0.19
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG21	12	0.19
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG22	12	0.19
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG23	12	0.19
(1,979)	1:49:A:LYS:H	1:48:A:LEU:HD11	8	0.19
(1,979)	1:49:A:LYS:H	1:48:A:LEU:HD12	8	0.19
(1,979)	1:49:A:LYS:H	1:48:A:LEU:HD13	8	0.19
(1,963)	1:238:A:GLU:HB2	1:239:A:THR:H	1	0.19
(1,963)	1:238:A:GLU:HB2	1:239:A:THR:H	17	0.19
(1,931)	1:191:A:GLU:HB2	1:192:A:ARG:H	17	0.19
(1,886)	1:122:A:LEU:HB2	1:123:A:GLY:H	20	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,872)	1:106:A:LYS:HB2	1:105:A:LEU:H	17	0.19
(1,872)	1:106:A:LYS:HB3	1:105:A:LEU:H	17	0.19
(1,855)	1:70:A:ASP:HB3	1:69:A:HIS:H	5	0.19
(1,839)	1:44:A:ASP:HB3	1:45:A:VAL:H	8	0.19
(1,839)	1:44:A:ASP:HB3	1:45:A:VAL:H	18	0.19
(1,839)	1:44:A:ASP:HB3	1:45:A:VAL:H	19	0.19
(1,824)	1:27:A:LEU:HB2	1:28:A:ALA:H	6	0.19
(1,554)	1:202:A:GLN:HA	1:200:A:VAL:HG21	6	0.19
(1,554)	1:202:A:GLN:HA	1:200:A:VAL:HG22	6	0.19
(1,554)	1:202:A:GLN:HA	1:200:A:VAL:HG23	6	0.19
(1,545)	1:172:A:THR:H	1:170:A:THR:HG21	13	0.19
(1,545)	1:172:A:THR:H	1:170:A:THR:HG22	13	0.19
(1,545)	1:172:A:THR:H	1:170:A:THR:HG23	13	0.19
(1,518)	1:113:A:LEU:HD21	1:111:A:ARG:H	12	0.19
(1,518)	1:113:A:LEU:HD22	1:111:A:ARG:H	12	0.19
(1,518)	1:113:A:LEU:HD23	1:111:A:ARG:H	12	0.19
(1,515)	1:106:A:LYS:HE2	1:102:A:PRO:HB2	11	0.19
(1,515)	1:106:A:LYS:HE2	1:102:A:PRO:HB3	11	0.19
(1,511)	1:73:A:ILE:HD11	1:71:A:ALA:HB1	20	0.19
(1,511)	1:73:A:ILE:HD11	1:71:A:ALA:HB2	20	0.19
(1,511)	1:73:A:ILE:HD11	1:71:A:ALA:HB3	20	0.19
(1,511)	1:73:A:ILE:HD12	1:71:A:ALA:HB1	20	0.19
(1,511)	1:73:A:ILE:HD12	1:71:A:ALA:HB2	20	0.19
(1,511)	1:73:A:ILE:HD12	1:71:A:ALA:HB3	20	0.19
(1,511)	1:73:A:ILE:HD13	1:71:A:ALA:HB1	20	0.19
(1,511)	1:73:A:ILE:HD13	1:71:A:ALA:HB2	20	0.19
(1,511)	1:73:A:ILE:HD13	1:71:A:ALA:HB3	20	0.19
(1,507)	1:68:A:PRO:HA	1:64:A:PHE:HZ	9	0.19
(1,507)	1:68:A:PRO:HA	1:64:A:PHE:HZ	15	0.19
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG11	1	0.19
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG12	1	0.19
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG13	1	0.19
(1,502)	1:60:A:LEU:HD21	1:57:A:VAL:HA	14	0.19
(1,502)	1:60:A:LEU:HD22	1:57:A:VAL:HA	14	0.19
(1,502)	1:60:A:LEU:HD23	1:57:A:VAL:HA	14	0.19
(1,502)	1:60:A:LEU:HD21	1:57:A:VAL:HA	17	0.19
(1,502)	1:60:A:LEU:HD22	1:57:A:VAL:HA	17	0.19
(1,502)	1:60:A:LEU:HD23	1:57:A:VAL:HA	17	0.19
(1,494)	1:14:A:VAL:H	1:11:A:LEU:HD11	20	0.19
(1,494)	1:14:A:VAL:H	1:11:A:LEU:HD12	20	0.19
(1,494)	1:14:A:VAL:H	1:11:A:LEU:HD13	20	0.19
(1,477)	1:206:A:HIS:H	1:204:A:VAL:HB	19	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,452)	1:28:A:ALA:H	1:26:A:ASP:HB2	12	0.19
(1,452)	1:28:A:ALA:H	1:26:A:ASP:HB3	12	0.19
(1,451)	1:14:A:VAL:H	1:17:A:ARG:HB3	3	0.19
(1,403)	1:176:A:ASN:HA	1:180:A:LYS:H	14	0.19
(1,352)	1:237:A:GLN:HG2	1:196:A:TRP:H	9	0.19
(1,352)	1:237:A:GLN:HG3	1:196:A:TRP:H	9	0.19
(1,347)	1:237:A:GLN:HB2	1:164:A:GLY:H	11	0.19
(1,347)	1:237:A:GLN:HB3	1:164:A:GLY:H	11	0.19
(1,345)	1:236:A:LYS:HA	1:196:A:TRP:HB3	5	0.19
(1,345)	1:236:A:LYS:HA	1:196:A:TRP:HB3	13	0.19
(1,334)	1:233:A:LEU:HD21	1:202:A:GLN:HE22	10	0.19
(1,334)	1:233:A:LEU:HD22	1:202:A:GLN:HE22	10	0.19
(1,334)	1:233:A:LEU:HD23	1:202:A:GLN:HE22	10	0.19
(1,333)	1:233:A:LEU:HD21	1:202:A:GLN:HE21	7	0.19
(1,333)	1:233:A:LEU:HD22	1:202:A:GLN:HE21	7	0.19
(1,333)	1:233:A:LEU:HD23	1:202:A:GLN:HE21	7	0.19
(1,328)	1:232:A:TYR:HE1	1:187:A:LEU:HD11	9	0.19
(1,328)	1:232:A:TYR:HE1	1:187:A:LEU:HD12	9	0.19
(1,328)	1:232:A:TYR:HE1	1:187:A:LEU:HD13	9	0.19
(1,328)	1:232:A:TYR:HE2	1:187:A:LEU:HD11	9	0.19
(1,328)	1:232:A:TYR:HE2	1:187:A:LEU:HD12	9	0.19
(1,328)	1:232:A:TYR:HE2	1:187:A:LEU:HD13	9	0.19
(1,325)	1:232:A:TYR:H	1:168:A:LEU:HD11	20	0.19
(1,325)	1:232:A:TYR:H	1:168:A:LEU:HD12	20	0.19
(1,325)	1:232:A:TYR:H	1:168:A:LEU:HD13	20	0.19
(1,318)	1:231:A:ILE:HD11	1:52:A:ALA:HA	13	0.19
(1,318)	1:231:A:ILE:HD12	1:52:A:ALA:HA	13	0.19
(1,318)	1:231:A:ILE:HD13	1:52:A:ALA:HA	13	0.19
(1,318)	1:231:A:ILE:HD11	1:52:A:ALA:HA	18	0.19
(1,318)	1:231:A:ILE:HD12	1:52:A:ALA:HA	18	0.19
(1,318)	1:231:A:ILE:HD13	1:52:A:ALA:HA	18	0.19
(1,316)	1:231:A:ILE:HD11	1:52:A:ALA:H	6	0.19
(1,316)	1:231:A:ILE:HD12	1:52:A:ALA:H	6	0.19
(1,316)	1:231:A:ILE:HD13	1:52:A:ALA:H	6	0.19
(1,316)	1:231:A:ILE:HD11	1:52:A:ALA:H	13	0.19
(1,316)	1:231:A:ILE:HD12	1:52:A:ALA:H	13	0.19
(1,316)	1:231:A:ILE:HD13	1:52:A:ALA:H	13	0.19
(1,304)	1:226:A:PHE:HB3	1:177:A:LEU:HD21	2	0.19
(1,304)	1:226:A:PHE:HB3	1:177:A:LEU:HD22	2	0.19
(1,304)	1:226:A:PHE:HB3	1:177:A:LEU:HD23	2	0.19
(1,295)	1:196:A:TRP:HE1	1:191:A:GLU:HA	1	0.19
(1,295)	1:196:A:TRP:HE1	1:191:A:GLU:HA	14	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,258)	1:166:A:VAL:HG11	1:157:A:LEU:HA	4	0.19
(1,258)	1:166:A:VAL:HG12	1:157:A:LEU:HA	4	0.19
(1,258)	1:166:A:VAL:HG13	1:157:A:LEU:HA	4	0.19
(1,251)	1:159:A:VAL:HG21	1:134:A:PHE:H	12	0.19
(1,251)	1:159:A:VAL:HG22	1:134:A:PHE:H	12	0.19
(1,251)	1:159:A:VAL:HG23	1:134:A:PHE:H	12	0.19
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG11	19	0.19
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG12	19	0.19
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG13	19	0.19
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG11	19	0.19
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG12	19	0.19
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG13	19	0.19
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG11	19	0.19
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG12	19	0.19
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG13	19	0.19
(1,203)	1:134:A:PHE:HA	1:72:A:LEU:HB2	13	0.19
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD11	10	0.19
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD12	10	0.19
(1,202)	1:134:A:PHE:HB2	1:72:A:LEU:HD13	10	0.19
(1,200)	1:129:A:ASP:HB3	1:74:A:LEU:HD21	14	0.19
(1,200)	1:129:A:ASP:HB3	1:74:A:LEU:HD22	14	0.19
(1,200)	1:129:A:ASP:HB3	1:74:A:LEU:HD23	14	0.19
(1,200)	1:129:A:ASP:HB3	1:74:A:LEU:HD21	20	0.19
(1,200)	1:129:A:ASP:HB3	1:74:A:LEU:HD22	20	0.19
(1,200)	1:129:A:ASP:HB3	1:74:A:LEU:HD23	20	0.19
(1,188)	1:120:A:CYS:H	1:98:A:VAL:HB	15	0.19
(1,178)	1:118:A:SER:HB2	1:98:A:VAL:HG11	4	0.19
(1,178)	1:118:A:SER:HB2	1:98:A:VAL:HG12	4	0.19
(1,178)	1:118:A:SER:HB2	1:98:A:VAL:HG13	4	0.19
(1,168)	1:117:A:LEU:HB2	1:97:A:GLY:H	1	0.19
(1,168)	1:117:A:LEU:HB2	1:97:A:GLY:H	2	0.19
(1,168)	1:117:A:LEU:HB2	1:97:A:GLY:H	6	0.19
(1,143)	1:108:A:ALA:HB1	1:79:A:GLY:H	1	0.19
(1,143)	1:108:A:ALA:HB2	1:79:A:GLY:H	1	0.19
(1,143)	1:108:A:ALA:HB3	1:79:A:GLY:H	1	0.19
(1,143)	1:108:A:ALA:HB1	1:79:A:GLY:H	3	0.19
(1,143)	1:108:A:ALA:HB2	1:79:A:GLY:H	3	0.19
(1,143)	1:108:A:ALA:HB3	1:79:A:GLY:H	3	0.19
(1,132)	1:100:A:GLY:HA2	1:31:A:LEU:HD11	9	0.19
(1,132)	1:100:A:GLY:HA2	1:31:A:LEU:HD12	9	0.19
(1,132)	1:100:A:GLY:HA2	1:31:A:LEU:HD13	9	0.19
(1,132)	1:100:A:GLY:HA3	1:31:A:LEU:HD11	9	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,132)	1:100:A:GLY:HA3	1:31:A:LEU:HD12	9	0.19
(1,132)	1:100:A:GLY:HA3	1:31:A:LEU:HD13	9	0.19
(1,132)	1:100:A:GLY:HA2	1:31:A:LEU:HD11	18	0.19
(1,132)	1:100:A:GLY:HA2	1:31:A:LEU:HD12	18	0.19
(1,132)	1:100:A:GLY:HA2	1:31:A:LEU:HD13	18	0.19
(1,132)	1:100:A:GLY:HA3	1:31:A:LEU:HD11	18	0.19
(1,132)	1:100:A:GLY:HA3	1:31:A:LEU:HD12	18	0.19
(1,132)	1:100:A:GLY:HA3	1:31:A:LEU:HD13	18	0.19
(1,130)	1:100:A:GLY:H	1:31:A:LEU:HD11	20	0.19
(1,130)	1:100:A:GLY:H	1:31:A:LEU:HD12	20	0.19
(1,130)	1:100:A:GLY:H	1:31:A:LEU:HD13	20	0.19
(1,129)	1:99:A:ASP:HB3	1:79:A:GLY:H	4	0.19
(1,106)	1:94:A:GLN:HE22	1:70:A:ASP:HA	1	0.19
(1,106)	1:94:A:GLN:HE22	1:70:A:ASP:HA	9	0.19
(1,101)	1:92:A:PHE:H	1:87:A:LEU:HD21	14	0.19
(1,101)	1:92:A:PHE:H	1:87:A:LEU:HD22	14	0.19
(1,101)	1:92:A:PHE:H	1:87:A:LEU:HD23	14	0.19
(1,100)	1:92:A:PHE:HE1	1:68:A:PRO:HB2	11	0.19
(1,100)	1:92:A:PHE:HE1	1:68:A:PRO:HB2	13	0.19
(1,82)	1:27:A:LEU:HD11	1:21:A:SER:HA	2	0.19
(1,82)	1:27:A:LEU:HD12	1:21:A:SER:HA	2	0.19
(1,82)	1:27:A:LEU:HD13	1:21:A:SER:HA	2	0.19
(1,81)	1:27:A:LEU:HD11	1:17:A:ARG:HD2	12	0.19
(1,81)	1:27:A:LEU:HD12	1:17:A:ARG:HD2	12	0.19
(1,81)	1:27:A:LEU:HD13	1:17:A:ARG:HD2	12	0.19
(1,54)	1:141:A:GLY:H	1:168:A:LEU:HA	7	0.19
(1,54)	1:141:A:GLY:H	1:168:A:LEU:HA	17	0.19
(1,40)	1:100:A:GLY:H	1:121:A:THR:HA	7	0.19
(5,13)	1:240:A:VAL:H	1:191:A:GLU:O	10	0.18
(5,8)	1:206:A:HIS:N	1:229:A:GLY:O	18	0.18
(5,4)	1:92:A:PHE:N	1:87:A:LEU:O	5	0.18
(4,218)	1:231:A:ILE:N	1:202:A:GLN:O	9	0.18
(4,213)	1:229:A:GLY:H	1:170:A:THR:O	1	0.18
(4,201)	1:197:A:GLU:H	1:235:A:ARG:O	19	0.18
(4,197)	1:195:A:VAL:H	1:190:A:LEU:O	15	0.18
(4,197)	1:195:A:VAL:H	1:190:A:LEU:O	19	0.18
(4,174)	1:182:A:THR:N	1:178:A:PRO:O	11	0.18
(4,174)	1:182:A:THR:N	1:178:A:PRO:O	12	0.18
(4,173)	1:182:A:THR:H	1:178:A:PRO:O	4	0.18
(4,173)	1:182:A:THR:H	1:178:A:PRO:O	8	0.18
(4,173)	1:182:A:THR:H	1:178:A:PRO:O	10	0.18
(4,167)	1:170:A:THR:H	1:230:A:ILE:O	4	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,167)	1:170:A:THR:H	1:230:A:ILE:O	8	0.18
(4,120)	1:120:A:CYS:N	1:99:A:ASP:O	1	0.18
(4,117)	1:118:A:SER:H	1:97:A:GLY:O	13	0.18
(4,113)	1:114:A:TYR:H	1:108:A:ALA:O	6	0.18
(4,113)	1:114:A:TYR:H	1:108:A:ALA:O	7	0.18
(4,113)	1:114:A:TYR:H	1:108:A:ALA:O	18	0.18
(4,112)	1:113:A:LEU:N	1:108:A:ALA:O	7	0.18
(4,112)	1:113:A:LEU:N	1:108:A:ALA:O	16	0.18
(4,111)	1:113:A:LEU:H	1:108:A:ALA:O	6	0.18
(4,90)	1:94:A:GLN:N	1:68:A:PRO:O	16	0.18
(4,85)	1:91:A:GLY:H	1:87:A:LEU:O	12	0.18
(4,41)	1:58:A:ASP:H	1:54:A:ARG:O	2	0.18
(4,12)	1:14:A:VAL:N	1:10:A:ARG:O	15	0.18
(4,9)	1:11:A:LEU:H	1:146:A:GLY:O	6	0.18
(4,8)	1:9:A:GLY:N	1:5:A:GLN:O	10	0.18
(4,7)	1:9:A:GLY:H	1:5:A:GLN:O	7	0.18
(4,5)	1:8:A:ALA:H	1:4:A:ALA:O	2	0.18
(2,193)	1:181:A:GLU:H	1:179:A:TYR:HD1	14	0.18
(2,193)	1:181:A:GLU:H	1:179:A:TYR:HD2	14	0.18
(2,193)	1:181:A:GLU:H	1:179:A:TYR:HD1	15	0.18
(2,193)	1:181:A:GLU:H	1:179:A:TYR:HD2	15	0.18
(2,193)	1:181:A:GLU:H	1:179:A:TYR:HD1	18	0.18
(2,193)	1:181:A:GLU:H	1:179:A:TYR:HD2	18	0.18
(2,192)	1:159:A:VAL:H	1:156:A:LEU:HD11	7	0.18
(2,192)	1:159:A:VAL:H	1:156:A:LEU:HD12	7	0.18
(2,192)	1:159:A:VAL:H	1:156:A:LEU:HD13	7	0.18
(2,106)	1:229:A:GLY:H	1:204:A:VAL:HB	14	0.18
(2,87)	1:160:A:THR:HA	1:129:A:ASP:HB2	9	0.18
(2,72)	1:135:A:ASP:HB3	1:71:A:ALA:H	16	0.18
(2,72)	1:135:A:ASP:HB3	1:71:A:ALA:H	20	0.18
(2,46)	1:109:A:ARG:H	1:99:A:ASP:HB2	9	0.18
(2,45)	1:108:A:ALA:HB1	1:83:A:VAL:H	6	0.18
(2,45)	1:108:A:ALA:HB2	1:83:A:VAL:H	6	0.18
(2,45)	1:108:A:ALA:HB3	1:83:A:VAL:H	6	0.18
(2,41)	1:97:A:GLY:H	1:75:A:ASP:HB2	10	0.18
(2,37)	1:96:A:GLN:HG3	1:74:A:LEU:HD21	8	0.18
(2,37)	1:96:A:GLN:HG3	1:74:A:LEU:HD22	8	0.18
(2,37)	1:96:A:GLN:HG3	1:74:A:LEU:HD23	8	0.18
(1,2103)	2:300:A:SAH:H2	1:121:A:THR:HG21	2	0.18
(1,2103)	2:300:A:SAH:H2	1:121:A:THR:HG22	2	0.18
(1,2103)	2:300:A:SAH:H2	1:121:A:THR:HG23	2	0.18
(1,2103)	2:300:A:SAH:H2	1:121:A:THR:HG21	5	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2103)	2:300:A:SAH:H2	1:121:A:THR:HG22	5	0.18
(1,2103)	2:300:A:SAH:H2	1:121:A:THR:HG23	5	0.18
(1,2020)	1:202:A:GLN:HG2	1:202:A:GLN:HA	19	0.18
(1,2020)	1:202:A:GLN:HG3	1:202:A:GLN:HA	19	0.18
(1,2002)	1:195:A:VAL:H	1:195:A:VAL:HG11	3	0.18
(1,2002)	1:195:A:VAL:H	1:195:A:VAL:HG12	3	0.18
(1,2002)	1:195:A:VAL:H	1:195:A:VAL:HG13	3	0.18
(1,1994)	1:192:A:ARG:HB2	1:192:A:ARG:HD3	8	0.18
(1,1871)	1:138:A:ILE:HA	1:138:A:ILE:HG12	13	0.18
(1,1768)	1:93:A:LEU:HD11	1:93:A:LEU:H	5	0.18
(1,1768)	1:93:A:LEU:HD12	1:93:A:LEU:H	5	0.18
(1,1768)	1:93:A:LEU:HD13	1:93:A:LEU:H	5	0.18
(1,1768)	1:93:A:LEU:HD11	1:93:A:LEU:H	19	0.18
(1,1768)	1:93:A:LEU:HD12	1:93:A:LEU:H	19	0.18
(1,1768)	1:93:A:LEU:HD13	1:93:A:LEU:H	19	0.18
(1,1765)	1:92:A:PHE:H	1:92:A:PHE:HE1	11	0.18
(1,1492)	1:238:A:GLU:HB3	1:238:A:GLU:H	5	0.18
(1,1393)	1:116:A:HIS:HB2	1:116:A:HIS:H	6	0.18
(1,1377)	1:96:A:GLN:HB3	1:96:A:GLN:H	14	0.18
(1,1357)	1:75:A:ASP:HB3	1:75:A:ASP:H	12	0.18
(1,1113)	1:232:A:TYR:H	1:231:A:ILE:HG12	8	0.18
(1,1112)	1:232:A:TYR:HB3	1:231:A:ILE:HD11	19	0.18
(1,1112)	1:232:A:TYR:HB3	1:231:A:ILE:HD12	19	0.18
(1,1112)	1:232:A:TYR:HB3	1:231:A:ILE:HD13	19	0.18
(1,1099)	1:202:A:GLN:H	1:201:A:THR:HG21	1	0.18
(1,1099)	1:202:A:GLN:H	1:201:A:THR:HG22	1	0.18
(1,1099)	1:202:A:GLN:H	1:201:A:THR:HG23	1	0.18
(1,1099)	1:202:A:GLN:H	1:201:A:THR:HG21	5	0.18
(1,1099)	1:202:A:GLN:H	1:201:A:THR:HG22	5	0.18
(1,1099)	1:202:A:GLN:H	1:201:A:THR:HG23	5	0.18
(1,1099)	1:202:A:GLN:H	1:201:A:THR:HG21	11	0.18
(1,1099)	1:202:A:GLN:H	1:201:A:THR:HG22	11	0.18
(1,1099)	1:202:A:GLN:H	1:201:A:THR:HG23	11	0.18
(1,1099)	1:202:A:GLN:H	1:201:A:THR:HG21	20	0.18
(1,1099)	1:202:A:GLN:H	1:201:A:THR:HG22	20	0.18
(1,1099)	1:202:A:GLN:H	1:201:A:THR:HG23	20	0.18
(1,1082)	1:184:A:GLU:HG2	1:183:A:LEU:HG	17	0.18
(1,1053)	1:139:A:ILE:H	1:138:A:ILE:HG12	20	0.18
(1,1046)	1:132:A:GLY:H	1:131:A:GLU:HG3	14	0.18
(1,1028)	1:114:A:TYR:H	1:113:A:LEU:HG	13	0.18
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG21	15	0.18
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG22	15	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG23	15	0.18
(1,963)	1:238:A:GLU:HB2	1:239:A:THR:H	4	0.18
(1,963)	1:238:A:GLU:HB2	1:239:A:THR:H	14	0.18
(1,931)	1:191:A:GLU:HB2	1:192:A:ARG:H	3	0.18
(1,931)	1:191:A:GLU:HB2	1:192:A:ARG:H	6	0.18
(1,903)	1:156:A:LEU:HB2	1:157:A:LEU:H	17	0.18
(1,884)	1:118:A:SER:HB3	1:119:A:LEU:H	4	0.18
(1,879)	1:115:A:HIS:HB3	1:116:A:HIS:H	17	0.18
(1,856)	1:70:A:ASP:HB3	1:71:A:ALA:H	5	0.18
(1,855)	1:70:A:ASP:HB3	1:69:A:HIS:H	2	0.18
(1,855)	1:70:A:ASP:HB3	1:69:A:HIS:H	8	0.18
(1,839)	1:44:A:ASP:HB3	1:45:A:VAL:H	5	0.18
(1,839)	1:44:A:ASP:HB3	1:45:A:VAL:H	9	0.18
(1,545)	1:172:A:THR:H	1:170:A:THR:HG21	4	0.18
(1,545)	1:172:A:THR:H	1:170:A:THR:HG22	4	0.18
(1,545)	1:172:A:THR:H	1:170:A:THR:HG23	4	0.18
(1,522)	1:113:A:LEU:HD21	1:111:A:ARG:HD3	8	0.18
(1,522)	1:113:A:LEU:HD22	1:111:A:ARG:HD3	8	0.18
(1,522)	1:113:A:LEU:HD23	1:111:A:ARG:HD3	8	0.18
(1,511)	1:73:A:ILE:HD11	1:71:A:ALA:HB1	16	0.18
(1,511)	1:73:A:ILE:HD11	1:71:A:ALA:HB2	16	0.18
(1,511)	1:73:A:ILE:HD11	1:71:A:ALA:HB3	16	0.18
(1,511)	1:73:A:ILE:HD12	1:71:A:ALA:HB1	16	0.18
(1,511)	1:73:A:ILE:HD12	1:71:A:ALA:HB2	16	0.18
(1,511)	1:73:A:ILE:HD12	1:71:A:ALA:HB3	16	0.18
(1,511)	1:73:A:ILE:HD13	1:71:A:ALA:HB1	16	0.18
(1,511)	1:73:A:ILE:HD13	1:71:A:ALA:HB2	16	0.18
(1,511)	1:73:A:ILE:HD13	1:71:A:ALA:HB3	16	0.18
(1,507)	1:68:A:PRO:HA	1:64:A:PHE:HZ	2	0.18
(1,507)	1:68:A:PRO:HA	1:64:A:PHE:HZ	4	0.18
(1,502)	1:60:A:LEU:HD21	1:57:A:VAL:HA	6	0.18
(1,502)	1:60:A:LEU:HD22	1:57:A:VAL:HA	6	0.18
(1,502)	1:60:A:LEU:HD23	1:57:A:VAL:HA	6	0.18
(1,461)	1:84:A:ALA:H	1:87:A:LEU:HB2	19	0.18
(1,452)	1:28:A:ALA:H	1:26:A:ASP:HB2	2	0.18
(1,452)	1:28:A:ALA:H	1:26:A:ASP:HB3	2	0.18
(1,452)	1:28:A:ALA:H	1:26:A:ASP:HB2	10	0.18
(1,452)	1:28:A:ALA:H	1:26:A:ASP:HB3	10	0.18
(1,451)	1:14:A:VAL:H	1:17:A:ARG:HB3	16	0.18
(1,352)	1:237:A:GLN:HG2	1:196:A:TRP:H	20	0.18
(1,352)	1:237:A:GLN:HG3	1:196:A:TRP:H	20	0.18
(1,329)	1:232:A:TYR:HA	1:201:A:THR:HB	1	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,329)	1:232:A:TYR:HA	1:201:A:THR:HB	6	0.18
(1,327)	1:232:A:TYR:HE1	1:169:A:THR:HA	19	0.18
(1,327)	1:232:A:TYR:HE2	1:169:A:THR:HA	19	0.18
(1,316)	1:231:A:ILE:HD11	1:52:A:ALA:H	15	0.18
(1,316)	1:231:A:ILE:HD12	1:52:A:ALA:H	15	0.18
(1,316)	1:231:A:ILE:HD13	1:52:A:ALA:H	15	0.18
(1,315)	1:230:A:ILE:H	1:172:A:THR:HG21	9	0.18
(1,315)	1:230:A:ILE:H	1:172:A:THR:HG22	9	0.18
(1,315)	1:230:A:ILE:H	1:172:A:THR:HG23	9	0.18
(1,312)	1:229:A:GLY:H	1:172:A:THR:HB	4	0.18
(1,296)	1:196:A:TRP:HE1	1:191:A:GLU:HB2	9	0.18
(1,261)	1:167:A:CYS:HB3	1:138:A:ILE:HG12	3	0.18
(1,258)	1:166:A:VAL:HG11	1:157:A:LEU:HA	19	0.18
(1,258)	1:166:A:VAL:HG12	1:157:A:LEU:HA	19	0.18
(1,258)	1:166:A:VAL:HG13	1:157:A:LEU:HA	19	0.18
(1,250)	1:159:A:VAL:HG21	1:133:A:THR:HB	4	0.18
(1,250)	1:159:A:VAL:HG22	1:133:A:THR:HB	4	0.18
(1,250)	1:159:A:VAL:HG23	1:133:A:THR:HB	4	0.18
(1,249)	1:159:A:VAL:HB	1:132:A:GLY:H	12	0.18
(1,248)	1:159:A:VAL:HG21	1:132:A:GLY:H	12	0.18
(1,248)	1:159:A:VAL:HG22	1:132:A:GLY:H	12	0.18
(1,248)	1:159:A:VAL:HG23	1:132:A:GLY:H	12	0.18
(1,248)	1:159:A:VAL:HG21	1:132:A:GLY:H	15	0.18
(1,248)	1:159:A:VAL:HG22	1:132:A:GLY:H	15	0.18
(1,248)	1:159:A:VAL:HG23	1:132:A:GLY:H	15	0.18
(1,245)	1:155:A:GLU:HB2	1:127:A:LEU:H	16	0.18
(1,245)	1:155:A:GLU:HB3	1:127:A:LEU:H	16	0.18
(1,244)	1:155:A:GLU:HG2	1:127:A:LEU:H	14	0.18
(1,244)	1:155:A:GLU:HG3	1:127:A:LEU:H	14	0.18
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG11	4	0.18
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG12	4	0.18
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG13	4	0.18
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG11	4	0.18
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG12	4	0.18
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG13	4	0.18
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG11	4	0.18
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG12	4	0.18
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG13	4	0.18
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG11	15	0.18
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG12	15	0.18
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG13	15	0.18
(1,209)	1:134:A:PHE:HD1	1:74:A:LEU:H	7	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,209)	1:134:A:PHE:HD2	1:74:A:LEU:H	7	0.18
(1,205)	1:134:A:PHE:HD1	1:73:A:ILE:H	20	0.18
(1,205)	1:134:A:PHE:HD2	1:73:A:ILE:H	20	0.18
(1,203)	1:134:A:PHE:HA	1:72:A:LEU:HB2	3	0.18
(1,194)	1:122:A:LEU:HB2	1:15:A:LEU:H	18	0.18
(1,178)	1:118:A:SER:HB2	1:98:A:VAL:HG11	8	0.18
(1,178)	1:118:A:SER:HB2	1:98:A:VAL:HG12	8	0.18
(1,178)	1:118:A:SER:HB2	1:98:A:VAL:HG13	8	0.18
(1,130)	1:100:A:GLY:H	1:31:A:LEU:HD11	14	0.18
(1,130)	1:100:A:GLY:H	1:31:A:LEU:HD12	14	0.18
(1,130)	1:100:A:GLY:H	1:31:A:LEU:HD13	14	0.18
(1,130)	1:100:A:GLY:H	1:31:A:LEU:HD11	17	0.18
(1,130)	1:100:A:GLY:H	1:31:A:LEU:HD12	17	0.18
(1,130)	1:100:A:GLY:H	1:31:A:LEU:HD13	17	0.18
(1,106)	1:94:A:GLN:HE22	1:70:A:ASP:HA	8	0.18
(1,106)	1:94:A:GLN:HE22	1:70:A:ASP:HA	11	0.18
(1,100)	1:92:A:PHE:HE1	1:68:A:PRO:HB2	10	0.18
(1,100)	1:92:A:PHE:HE1	1:68:A:PRO:HB2	14	0.18
(1,100)	1:92:A:PHE:HE1	1:68:A:PRO:HB2	19	0.18
(1,68)	1:200:A:VAL:H	1:234:A:TYR:HA	2	0.18
(1,40)	1:100:A:GLY:H	1:121:A:THR:HA	13	0.18
(1,40)	1:100:A:GLY:H	1:121:A:THR:HA	18	0.18
(1,40)	1:100:A:GLY:H	1:121:A:THR:HA	20	0.18
(1,13)	1:161:A:LYS:H	1:134:A:PHE:H	2	0.18
(5,13)	1:240:A:VAL:H	1:191:A:GLU:O	8	0.17
(5,13)	1:240:A:VAL:H	1:191:A:GLU:O	19	0.17
(5,11)	1:223:A:ASN:H	1:219:A:GLY:O	16	0.17
(5,4)	1:92:A:PHE:N	1:87:A:LEU:O	18	0.17
(5,3)	1:92:A:PHE:H	1:87:A:LEU:O	11	0.17
(4,213)	1:229:A:GLY:H	1:170:A:THR:O	14	0.17
(4,209)	1:219:A:GLY:H	1:216:A:THR:O	14	0.17
(4,174)	1:182:A:THR:N	1:178:A:PRO:O	15	0.17
(4,173)	1:182:A:THR:H	1:178:A:PRO:O	3	0.17
(4,173)	1:182:A:THR:H	1:178:A:PRO:O	9	0.17
(4,173)	1:182:A:THR:H	1:178:A:PRO:O	20	0.17
(4,165)	1:169:A:THR:H	1:139:A:ILE:O	16	0.17
(4,165)	1:169:A:THR:H	1:139:A:ILE:O	20	0.17
(4,151)	1:160:A:THR:H	1:156:A:LEU:O	6	0.17
(4,151)	1:160:A:THR:H	1:156:A:LEU:O	8	0.17
(4,120)	1:120:A:CYS:N	1:99:A:ASP:O	4	0.17
(4,120)	1:120:A:CYS:N	1:99:A:ASP:O	17	0.17
(4,114)	1:114:A:TYR:N	1:108:A:ALA:O	8	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,114)	1:114:A:TYR:N	1:108:A:ALA:O	9	0.17
(4,113)	1:114:A:TYR:H	1:108:A:ALA:O	2	0.17
(4,113)	1:114:A:TYR:H	1:108:A:ALA:O	19	0.17
(4,112)	1:113:A:LEU:N	1:108:A:ALA:O	17	0.17
(4,51)	1:69:A:HIS:H	1:67:A:SER:O	9	0.17
(4,51)	1:69:A:HIS:H	1:67:A:SER:O	13	0.17
(4,46)	1:61:A:SER:N	1:57:A:VAL:O	15	0.17
(4,10)	1:11:A:LEU:N	1:146:A:GLY:O	19	0.17
(2,277)	1:57:A:VAL:HG21	1:56:A:ALA:H	10	0.17
(2,277)	1:57:A:VAL:HG22	1:56:A:ALA:H	10	0.17
(2,277)	1:57:A:VAL:HG23	1:56:A:ALA:H	10	0.17
(2,193)	1:181:A:GLU:H	1:179:A:TYR:HD1	1	0.17
(2,193)	1:181:A:GLU:H	1:179:A:TYR:HD2	1	0.17
(2,162)	1:153:A:ILE:H	1:149:A:PRO:HB3	13	0.17
(2,66)	1:122:A:LEU:HD21	1:16:A:ALA:H	9	0.17
(2,66)	1:122:A:LEU:HD22	1:16:A:ALA:H	9	0.17
(2,66)	1:122:A:LEU:HD23	1:16:A:ALA:H	9	0.17
(2,45)	1:108:A:ALA:HB1	1:83:A:VAL:H	14	0.17
(2,45)	1:108:A:ALA:HB2	1:83:A:VAL:H	14	0.17
(2,45)	1:108:A:ALA:HB3	1:83:A:VAL:H	14	0.17
(1,2100)	2:300:A:SAH:H2	1:100:A:GLY:HA3	12	0.17
(1,2097)	2:300:A:SAH:H1'	1:100:A:GLY:H	2	0.17
(1,2091)	2:300:A:SAH:HB1	1:38:A:ALA:HB1	9	0.17
(1,2091)	2:300:A:SAH:HB1	1:38:A:ALA:HB2	9	0.17
(1,2091)	2:300:A:SAH:HB1	1:38:A:ALA:HB3	9	0.17
(1,2091)	2:300:A:SAH:HB2	1:38:A:ALA:HB1	9	0.17
(1,2091)	2:300:A:SAH:HB2	1:38:A:ALA:HB2	9	0.17
(1,2091)	2:300:A:SAH:HB2	1:38:A:ALA:HB3	9	0.17
(1,2090)	2:300:A:SAH:HG1	1:35:A:ASP:H	2	0.17
(1,2090)	2:300:A:SAH:HG2	1:35:A:ASP:H	2	0.17
(1,2089)	2:300:A:SAH:HG1	1:35:A:ASP:H	2	0.17
(1,2089)	2:300:A:SAH:HG2	1:35:A:ASP:H	2	0.17
(1,2024)	1:204:A:VAL:HG11	1:204:A:VAL:H	3	0.17
(1,2024)	1:204:A:VAL:HG12	1:204:A:VAL:H	3	0.17
(1,2024)	1:204:A:VAL:HG13	1:204:A:VAL:H	3	0.17
(1,1917)	1:159:A:VAL:HG11	1:159:A:VAL:H	15	0.17
(1,1917)	1:159:A:VAL:HG12	1:159:A:VAL:H	15	0.17
(1,1917)	1:159:A:VAL:HG13	1:159:A:VAL:H	15	0.17
(1,1871)	1:138:A:ILE:HA	1:138:A:ILE:HG12	16	0.17
(1,1765)	1:92:A:PHE:H	1:92:A:PHE:HE1	18	0.17
(1,1662)	1:33:A:PHE:H	1:33:A:PHE:HD1	10	0.17
(1,1645)	1:17:A:ARG:HD2	1:17:A:ARG:HA	11	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1478)	1:226:A:PHE:HB3	1:226:A:PHE:H	18	0.17
(1,1445)	1:182:A:THR:HB	1:182:A:THR:H	15	0.17
(1,1393)	1:116:A:HIS:HB2	1:116:A:HIS:H	19	0.17
(1,1377)	1:96:A:GLN:HB3	1:96:A:GLN:H	5	0.17
(1,1377)	1:96:A:GLN:HB3	1:96:A:GLN:H	7	0.17
(1,1377)	1:96:A:GLN:HB3	1:96:A:GLN:H	12	0.17
(1,1357)	1:75:A:ASP:HB3	1:75:A:ASP:H	8	0.17
(1,1099)	1:202:A:GLN:H	1:201:A:THR:HG21	18	0.17
(1,1099)	1:202:A:GLN:H	1:201:A:THR:HG22	18	0.17
(1,1099)	1:202:A:GLN:H	1:201:A:THR:HG23	18	0.17
(1,1036)	1:122:A:LEU:HD11	1:121:A:THR:H	18	0.17
(1,1036)	1:122:A:LEU:HD12	1:121:A:THR:H	18	0.17
(1,1036)	1:122:A:LEU:HD13	1:121:A:THR:H	18	0.17
(1,1028)	1:114:A:TYR:H	1:113:A:LEU:HG	4	0.17
(1,1028)	1:114:A:TYR:H	1:113:A:LEU:HG	5	0.17
(1,1015)	1:91:A:GLY:H	1:90:A:ARG:HD3	4	0.17
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG21	13	0.17
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG22	13	0.17
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG23	13	0.17
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG21	18	0.17
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG22	18	0.17
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG23	18	0.17
(1,978)	1:48:A:LEU:HD11	1:47:A:ALA:H	1	0.17
(1,978)	1:48:A:LEU:HD12	1:47:A:ALA:H	1	0.17
(1,978)	1:48:A:LEU:HD13	1:47:A:ALA:H	1	0.17
(1,886)	1:122:A:LEU:HB2	1:123:A:GLY:H	1	0.17
(1,839)	1:44:A:ASP:HB3	1:45:A:VAL:H	2	0.17
(1,839)	1:44:A:ASP:HB3	1:45:A:VAL:H	7	0.17
(1,839)	1:44:A:ASP:HB3	1:45:A:VAL:H	10	0.17
(1,839)	1:44:A:ASP:HB3	1:45:A:VAL:H	14	0.17
(1,839)	1:44:A:ASP:HB3	1:45:A:VAL:H	16	0.17
(1,835)	1:42:A:ASP:HB2	1:43:A:GLN:H	10	0.17
(1,824)	1:27:A:LEU:HB2	1:28:A:ALA:H	10	0.17
(1,522)	1:113:A:LEU:HD21	1:111:A:ARG:HD3	3	0.17
(1,522)	1:113:A:LEU:HD22	1:111:A:ARG:HD3	3	0.17
(1,522)	1:113:A:LEU:HD23	1:111:A:ARG:HD3	3	0.17
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG21	19	0.17
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG22	19	0.17
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG23	19	0.17
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG11	11	0.17
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG12	11	0.17
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG13	11	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,502)	1:60:A:LEU:HD21	1:57:A:VAL:HA	20	0.17
(1,502)	1:60:A:LEU:HD22	1:57:A:VAL:HA	20	0.17
(1,502)	1:60:A:LEU:HD23	1:57:A:VAL:HA	20	0.17
(1,497)	1:45:A:VAL:HG11	1:42:A:ASP:HA	11	0.17
(1,497)	1:45:A:VAL:HG12	1:42:A:ASP:HA	11	0.17
(1,497)	1:45:A:VAL:HG13	1:42:A:ASP:HA	11	0.17
(1,494)	1:14:A:VAL:H	1:11:A:LEU:HD11	18	0.17
(1,494)	1:14:A:VAL:H	1:11:A:LEU:HD12	18	0.17
(1,494)	1:14:A:VAL:H	1:11:A:LEU:HD13	18	0.17
(1,493)	1:11:A:LEU:H	1:9:A:GLY:HA2	15	0.17
(1,493)	1:11:A:LEU:H	1:9:A:GLY:HA3	15	0.17
(1,451)	1:14:A:VAL:H	1:17:A:ARG:HB3	17	0.17
(1,403)	1:176:A:ASN:HA	1:180:A:LYS:H	2	0.17
(1,352)	1:237:A:GLN:HG2	1:196:A:TRP:H	11	0.17
(1,352)	1:237:A:GLN:HG3	1:196:A:TRP:H	11	0.17
(1,345)	1:236:A:LYS:HA	1:196:A:TRP:HB3	1	0.17
(1,333)	1:233:A:LEU:HD21	1:202:A:GLN:HE21	18	0.17
(1,333)	1:233:A:LEU:HD22	1:202:A:GLN:HE21	18	0.17
(1,333)	1:233:A:LEU:HD23	1:202:A:GLN:HE21	18	0.17
(1,328)	1:232:A:TYR:HE1	1:187:A:LEU:HD11	12	0.17
(1,328)	1:232:A:TYR:HE1	1:187:A:LEU:HD12	12	0.17
(1,328)	1:232:A:TYR:HE1	1:187:A:LEU:HD13	12	0.17
(1,328)	1:232:A:TYR:HE2	1:187:A:LEU:HD11	12	0.17
(1,328)	1:232:A:TYR:HE2	1:187:A:LEU:HD12	12	0.17
(1,328)	1:232:A:TYR:HE2	1:187:A:LEU:HD13	12	0.17
(1,327)	1:232:A:TYR:HE1	1:169:A:THR:HA	8	0.17
(1,327)	1:232:A:TYR:HE2	1:169:A:THR:HA	8	0.17
(1,318)	1:231:A:ILE:HD11	1:52:A:ALA:HA	6	0.17
(1,318)	1:231:A:ILE:HD12	1:52:A:ALA:HA	6	0.17
(1,318)	1:231:A:ILE:HD13	1:52:A:ALA:HA	6	0.17
(1,316)	1:231:A:ILE:HD11	1:52:A:ALA:H	12	0.17
(1,316)	1:231:A:ILE:HD12	1:52:A:ALA:H	12	0.17
(1,316)	1:231:A:ILE:HD13	1:52:A:ALA:H	12	0.17
(1,302)	1:226:A:PHE:HD1	1:177:A:LEU:HD21	2	0.17
(1,302)	1:226:A:PHE:HD1	1:177:A:LEU:HD22	2	0.17
(1,302)	1:226:A:PHE:HD1	1:177:A:LEU:HD23	2	0.17
(1,302)	1:226:A:PHE:HD2	1:177:A:LEU:HD21	2	0.17
(1,302)	1:226:A:PHE:HD2	1:177:A:LEU:HD22	2	0.17
(1,302)	1:226:A:PHE:HD2	1:177:A:LEU:HD23	2	0.17
(1,297)	1:196:A:TRP:HE1	1:191:A:GLU:HB3	10	0.17
(1,295)	1:196:A:TRP:HE1	1:191:A:GLU:HA	12	0.17
(1,245)	1:155:A:GLU:HB2	1:127:A:LEU:H	9	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,245)	1:155:A:GLU:HB3	1:127:A:LEU:H	9	0.17
(1,244)	1:155:A:GLU:HG2	1:127:A:LEU:H	15	0.17
(1,244)	1:155:A:GLU:HG3	1:127:A:LEU:H	15	0.17
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG11	16	0.17
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG12	16	0.17
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG13	16	0.17
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG11	16	0.17
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG12	16	0.17
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG13	16	0.17
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG11	16	0.17
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG12	16	0.17
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG13	16	0.17
(1,237)	1:149:A:PRO:HB3	1:123:A:GLY:HA3	7	0.17
(1,231)	1:138:A:ILE:HG21	1:75:A:ASP:HB2	9	0.17
(1,231)	1:138:A:ILE:HG22	1:75:A:ASP:HB2	9	0.17
(1,231)	1:138:A:ILE:HG23	1:75:A:ASP:HB2	9	0.17
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD11	1	0.17
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD12	1	0.17
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD13	1	0.17
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD11	13	0.17
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD12	13	0.17
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD13	13	0.17
(1,209)	1:134:A:PHE:HD1	1:74:A:LEU:H	15	0.17
(1,209)	1:134:A:PHE:HD2	1:74:A:LEU:H	15	0.17
(1,200)	1:129:A:ASP:HB3	1:74:A:LEU:HD21	1	0.17
(1,200)	1:129:A:ASP:HB3	1:74:A:LEU:HD22	1	0.17
(1,200)	1:129:A:ASP:HB3	1:74:A:LEU:HD23	1	0.17
(1,183)	1:119:A:LEU:H	1:98:A:VAL:HG11	1	0.17
(1,183)	1:119:A:LEU:H	1:98:A:VAL:HG12	1	0.17
(1,183)	1:119:A:LEU:H	1:98:A:VAL:HG13	1	0.17
(1,183)	1:119:A:LEU:H	1:98:A:VAL:HG11	3	0.17
(1,183)	1:119:A:LEU:H	1:98:A:VAL:HG12	3	0.17
(1,183)	1:119:A:LEU:H	1:98:A:VAL:HG13	3	0.17
(1,178)	1:118:A:SER:HB2	1:98:A:VAL:HG11	14	0.17
(1,178)	1:118:A:SER:HB2	1:98:A:VAL:HG12	14	0.17
(1,178)	1:118:A:SER:HB2	1:98:A:VAL:HG13	14	0.17
(1,170)	1:117:A:LEU:HD11	1:99:A:ASP:HB2	10	0.17
(1,170)	1:117:A:LEU:HD12	1:99:A:ASP:HB2	10	0.17
(1,170)	1:117:A:LEU:HD13	1:99:A:ASP:HB2	10	0.17
(1,168)	1:117:A:LEU:HB2	1:97:A:GLY:H	5	0.17
(1,168)	1:117:A:LEU:HB2	1:97:A:GLY:H	14	0.17
(1,168)	1:117:A:LEU:HB2	1:97:A:GLY:H	17	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,130)	1:100:A:GLY:H	1:31:A:LEU:HD11	9	0.17
(1,130)	1:100:A:GLY:H	1:31:A:LEU:HD12	9	0.17
(1,130)	1:100:A:GLY:H	1:31:A:LEU:HD13	9	0.17
(1,130)	1:100:A:GLY:H	1:31:A:LEU:HD11	11	0.17
(1,130)	1:100:A:GLY:H	1:31:A:LEU:HD12	11	0.17
(1,130)	1:100:A:GLY:H	1:31:A:LEU:HD13	11	0.17
(1,129)	1:99:A:ASP:HB3	1:79:A:GLY:H	10	0.17
(1,106)	1:94:A:GLN:HE22	1:70:A:ASP:HA	15	0.17
(1,101)	1:92:A:PHE:H	1:87:A:LEU:HD21	13	0.17
(1,101)	1:92:A:PHE:H	1:87:A:LEU:HD22	13	0.17
(1,101)	1:92:A:PHE:H	1:87:A:LEU:HD23	13	0.17
(1,100)	1:92:A:PHE:HE1	1:68:A:PRO:HB2	3	0.17
(1,100)	1:92:A:PHE:HE1	1:68:A:PRO:HB2	15	0.17
(1,82)	1:27:A:LEU:HD11	1:21:A:SER:HA	6	0.17
(1,82)	1:27:A:LEU:HD12	1:21:A:SER:HA	6	0.17
(1,82)	1:27:A:LEU:HD13	1:21:A:SER:HA	6	0.17
(1,69)	1:210:A:ALA:H	1:226:A:PHE:HA	1	0.17
(1,69)	1:210:A:ALA:H	1:226:A:PHE:HA	13	0.17
(1,28)	1:237:A:GLN:H	1:197:A:GLU:H	3	0.17
(1,28)	1:237:A:GLN:H	1:197:A:GLU:H	10	0.17
(1,28)	1:237:A:GLN:H	1:197:A:GLU:H	19	0.17
(5,14)	1:240:A:VAL:N	1:191:A:GLU:O	15	0.16
(5,9)	1:222:A:ALA:H	1:219:A:GLY:O	4	0.16
(5,3)	1:92:A:PHE:H	1:87:A:LEU:O	15	0.16
(4,225)	1:236:A:LYS:H	1:164:A:GLY:O	20	0.16
(4,206)	1:200:A:VAL:N	1:233:A:LEU:O	6	0.16
(4,206)	1:200:A:VAL:N	1:233:A:LEU:O	13	0.16
(4,206)	1:200:A:VAL:N	1:233:A:LEU:O	19	0.16
(4,205)	1:200:A:VAL:H	1:233:A:LEU:O	3	0.16
(4,205)	1:200:A:VAL:H	1:233:A:LEU:O	15	0.16
(4,173)	1:182:A:THR:H	1:178:A:PRO:O	7	0.16
(4,173)	1:182:A:THR:H	1:178:A:PRO:O	16	0.16
(4,171)	1:181:A:GLU:H	1:178:A:PRO:O	7	0.16
(4,171)	1:181:A:GLU:H	1:178:A:PRO:O	14	0.16
(4,170)	1:173:A:ASN:N	1:227:A:ILE:O	9	0.16
(4,165)	1:169:A:THR:H	1:139:A:ILE:O	12	0.16
(4,137)	1:140:A:VAL:H	1:78:A:CYS:O	19	0.16
(4,120)	1:120:A:CYS:N	1:99:A:ASP:O	5	0.16
(4,120)	1:120:A:CYS:N	1:99:A:ASP:O	20	0.16
(4,117)	1:118:A:SER:H	1:97:A:GLY:O	19	0.16
(4,114)	1:114:A:TYR:N	1:108:A:ALA:O	4	0.16
(4,114)	1:114:A:TYR:N	1:108:A:ALA:O	6	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,114)	1:114:A:TYR:N	1:108:A:ALA:O	12	0.16
(4,114)	1:114:A:TYR:N	1:108:A:ALA:O	16	0.16
(4,112)	1:113:A:LEU:N	1:108:A:ALA:O	15	0.16
(4,87)	1:93:A:LEU:H	1:68:A:PRO:O	3	0.16
(4,81)	1:89:A:ALA:H	1:85:A:VAL:O	6	0.16
(4,81)	1:89:A:ALA:H	1:85:A:VAL:O	9	0.16
(4,63)	1:77:A:ALA:H	1:98:A:VAL:O	9	0.16
(4,27)	1:40:A:GLU:H	1:37:A:TRP:O	13	0.16
(4,25)	1:38:A:ALA:H	1:34:A:TYR:O	5	0.16
(4,11)	1:14:A:VAL:H	1:10:A:ARG:O	9	0.16
(4,11)	1:14:A:VAL:H	1:10:A:ARG:O	14	0.16
(4,11)	1:14:A:VAL:H	1:10:A:ARG:O	16	0.16
(4,7)	1:9:A:GLY:H	1:5:A:GLN:O	20	0.16
(2,277)	1:57:A:VAL:HG21	1:56:A:ALA:H	4	0.16
(2,277)	1:57:A:VAL:HG22	1:56:A:ALA:H	4	0.16
(2,277)	1:57:A:VAL:HG23	1:56:A:ALA:H	4	0.16
(2,194)	1:183:A:LEU:HG	1:181:A:GLU:H	4	0.16
(2,194)	1:183:A:LEU:HG	1:181:A:GLU:H	18	0.16
(2,161)	1:144:A:SER:H	1:142:A:ALA:HB1	15	0.16
(2,161)	1:144:A:SER:H	1:142:A:ALA:HB2	15	0.16
(2,161)	1:144:A:SER:H	1:142:A:ALA:HB3	15	0.16
(2,161)	1:144:A:SER:H	1:142:A:ALA:HB1	17	0.16
(2,161)	1:144:A:SER:H	1:142:A:ALA:HB2	17	0.16
(2,161)	1:144:A:SER:H	1:142:A:ALA:HB3	17	0.16
(2,107)	1:231:A:ILE:HG12	1:52:A:ALA:H	14	0.16
(2,94)	1:187:A:LEU:HD21	1:168:A:LEU:HD11	15	0.16
(2,94)	1:187:A:LEU:HD21	1:168:A:LEU:HD12	15	0.16
(2,94)	1:187:A:LEU:HD21	1:168:A:LEU:HD13	15	0.16
(2,94)	1:187:A:LEU:HD22	1:168:A:LEU:HD11	15	0.16
(2,94)	1:187:A:LEU:HD22	1:168:A:LEU:HD12	15	0.16
(2,94)	1:187:A:LEU:HD22	1:168:A:LEU:HD13	15	0.16
(2,94)	1:187:A:LEU:HD23	1:168:A:LEU:HD11	15	0.16
(2,94)	1:187:A:LEU:HD23	1:168:A:LEU:HD12	15	0.16
(2,94)	1:187:A:LEU:HD23	1:168:A:LEU:HD13	15	0.16
(2,93)	1:168:A:LEU:HA	1:143:A:LEU:HG	9	0.16
(2,92)	1:167:A:CYS:HB3	1:139:A:ILE:HA	17	0.16
(2,72)	1:135:A:ASP:HB3	1:71:A:ALA:H	8	0.16
(2,66)	1:122:A:LEU:HD21	1:16:A:ALA:H	11	0.16
(2,66)	1:122:A:LEU:HD22	1:16:A:ALA:H	11	0.16
(2,66)	1:122:A:LEU:HD23	1:16:A:ALA:H	11	0.16
(2,46)	1:109:A:ARG:H	1:99:A:ASP:HB2	6	0.16
(2,46)	1:109:A:ARG:H	1:99:A:ASP:HB2	16	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,45)	1:108:A:ALA:HB1	1:83:A:VAL:H	8	0.16
(2,45)	1:108:A:ALA:HB2	1:83:A:VAL:H	8	0.16
(2,45)	1:108:A:ALA:HB3	1:83:A:VAL:H	8	0.16
(2,45)	1:108:A:ALA:HB1	1:83:A:VAL:H	11	0.16
(2,45)	1:108:A:ALA:HB2	1:83:A:VAL:H	11	0.16
(2,45)	1:108:A:ALA:HB3	1:83:A:VAL:H	11	0.16
(2,45)	1:108:A:ALA:HB1	1:83:A:VAL:H	13	0.16
(2,45)	1:108:A:ALA:HB2	1:83:A:VAL:H	13	0.16
(2,45)	1:108:A:ALA:HB3	1:83:A:VAL:H	13	0.16
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD11	17	0.16
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD12	17	0.16
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD13	17	0.16
(2,37)	1:96:A:GLN:HG3	1:74:A:LEU:HD21	10	0.16
(2,37)	1:96:A:GLN:HG3	1:74:A:LEU:HD22	10	0.16
(2,37)	1:96:A:GLN:HG3	1:74:A:LEU:HD23	10	0.16
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD21	5	0.16
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD22	5	0.16
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD23	5	0.16
(1,2097)	2:300:A:SAH:H1'	1:100:A:GLY:H	11	0.16
(1,2097)	2:300:A:SAH:H1'	1:100:A:GLY:H	17	0.16
(1,2097)	2:300:A:SAH:H1'	1:100:A:GLY:H	20	0.16
(1,2092)	2:300:A:SAH:HG1	1:38:A:ALA:HB1	4	0.16
(1,2092)	2:300:A:SAH:HG1	1:38:A:ALA:HB2	4	0.16
(1,2092)	2:300:A:SAH:HG1	1:38:A:ALA:HB3	4	0.16
(1,2091)	2:300:A:SAH:HB1	1:38:A:ALA:HB1	18	0.16
(1,2091)	2:300:A:SAH:HB1	1:38:A:ALA:HB2	18	0.16
(1,2091)	2:300:A:SAH:HB1	1:38:A:ALA:HB3	18	0.16
(1,2091)	2:300:A:SAH:HB2	1:38:A:ALA:HB1	18	0.16
(1,2091)	2:300:A:SAH:HB2	1:38:A:ALA:HB2	18	0.16
(1,2091)	2:300:A:SAH:HB2	1:38:A:ALA:HB3	18	0.16
(1,2027)	1:218:A:LEU:H	1:218:A:LEU:HD21	10	0.16
(1,2027)	1:218:A:LEU:H	1:218:A:LEU:HD22	10	0.16
(1,2027)	1:218:A:LEU:H	1:218:A:LEU:HD23	10	0.16
(1,1917)	1:159:A:VAL:HG11	1:159:A:VAL:H	12	0.16
(1,1917)	1:159:A:VAL:HG12	1:159:A:VAL:H	12	0.16
(1,1917)	1:159:A:VAL:HG13	1:159:A:VAL:H	12	0.16
(1,1765)	1:92:A:PHE:H	1:92:A:PHE:HE1	16	0.16
(1,1696)	1:65:A:ARG:HD2	1:65:A:ARG:H	6	0.16
(1,1478)	1:226:A:PHE:HB3	1:226:A:PHE:H	7	0.16
(1,1478)	1:226:A:PHE:HB3	1:226:A:PHE:H	9	0.16
(1,1471)	1:205:A:ASP:HB3	1:205:A:ASP:H	3	0.16
(1,1471)	1:205:A:ASP:HB3	1:205:A:ASP:H	5	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1403)	1:124:A:GLN:HB2	1:124:A:GLN:H	20	0.16
(1,1393)	1:116:A:HIS:HB2	1:116:A:HIS:H	8	0.16
(1,1393)	1:116:A:HIS:HB2	1:116:A:HIS:H	15	0.16
(1,1377)	1:96:A:GLN:HB3	1:96:A:GLN:H	15	0.16
(1,1099)	1:202:A:GLN:H	1:201:A:THR:HG21	17	0.16
(1,1099)	1:202:A:GLN:H	1:201:A:THR:HG22	17	0.16
(1,1099)	1:202:A:GLN:H	1:201:A:THR:HG23	17	0.16
(1,1099)	1:202:A:GLN:H	1:201:A:THR:HG21	19	0.16
(1,1099)	1:202:A:GLN:H	1:201:A:THR:HG22	19	0.16
(1,1099)	1:202:A:GLN:H	1:201:A:THR:HG23	19	0.16
(1,1065)	1:154:A:PRO:HD3	1:153:A:ILE:HG13	1	0.16
(1,1055)	1:140:A:VAL:HA	1:139:A:ILE:HG21	5	0.16
(1,1055)	1:140:A:VAL:HA	1:139:A:ILE:HG22	5	0.16
(1,1055)	1:140:A:VAL:HA	1:139:A:ILE:HG23	5	0.16
(1,1030)	1:116:A:HIS:HB2	1:115:A:HIS:HB3	16	0.16
(1,1028)	1:114:A:TYR:H	1:113:A:LEU:HG	7	0.16
(1,1021)	1:97:A:GLY:H	1:96:A:GLN:HG2	3	0.16
(1,1018)	1:94:A:GLN:HG2	1:93:A:LEU:H	1	0.16
(1,1018)	1:94:A:GLN:HG2	1:93:A:LEU:H	8	0.16
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG21	3	0.16
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG22	3	0.16
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG23	3	0.16
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG21	4	0.16
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG22	4	0.16
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG23	4	0.16
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG21	5	0.16
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG22	5	0.16
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG23	5	0.16
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG21	17	0.16
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG22	17	0.16
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG23	17	0.16
(1,984)	1:54:A:ARG:H	1:53:A:PRO:HD3	11	0.16
(1,942)	1:205:A:ASP:HB3	1:206:A:HIS:H	19	0.16
(1,938)	1:199:A:LEU:HB2	1:200:A:VAL:H	16	0.16
(1,931)	1:191:A:GLU:HB2	1:192:A:ARG:H	18	0.16
(1,855)	1:70:A:ASP:HB3	1:69:A:HIS:H	17	0.16
(1,839)	1:44:A:ASP:HB3	1:45:A:VAL:H	1	0.16
(1,839)	1:44:A:ASP:HB3	1:45:A:VAL:H	4	0.16
(1,839)	1:44:A:ASP:HB3	1:45:A:VAL:H	15	0.16
(1,839)	1:44:A:ASP:HB3	1:45:A:VAL:H	17	0.16
(1,544)	1:172:A:THR:HG21	1:170:A:THR:H	1	0.16
(1,544)	1:172:A:THR:HG22	1:170:A:THR:H	1	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,544)	1:172:A:THR:HG23	1:170:A:THR:H	1	0.16
(1,522)	1:113:A:LEU:HD21	1:111:A:ARG:HD3	6	0.16
(1,522)	1:113:A:LEU:HD22	1:111:A:ARG:HD3	6	0.16
(1,522)	1:113:A:LEU:HD23	1:111:A:ARG:HD3	6	0.16
(1,522)	1:113:A:LEU:HD21	1:111:A:ARG:HD3	16	0.16
(1,522)	1:113:A:LEU:HD22	1:111:A:ARG:HD3	16	0.16
(1,522)	1:113:A:LEU:HD23	1:111:A:ARG:HD3	16	0.16
(1,515)	1:106:A:LYS:HE2	1:102:A:PRO:HB2	1	0.16
(1,515)	1:106:A:LYS:HE2	1:102:A:PRO:HB3	1	0.16
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG21	5	0.16
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG22	5	0.16
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG23	5	0.16
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG21	11	0.16
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG22	11	0.16
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG23	11	0.16
(1,507)	1:68:A:PRO:HA	1:64:A:PHE:HZ	14	0.16
(1,483)	1:57:A:VAL:HA	1:60:A:LEU:HB2	13	0.16
(1,452)	1:28:A:ALA:H	1:26:A:ASP:HB2	11	0.16
(1,452)	1:28:A:ALA:H	1:26:A:ASP:HB3	11	0.16
(1,406)	1:10:A:ARG:HA	1:13:A:GLN:H	2	0.16
(1,314)	1:230:A:ILE:HG21	1:170:A:THR:H	2	0.16
(1,314)	1:230:A:ILE:HG22	1:170:A:THR:H	2	0.16
(1,314)	1:230:A:ILE:HG23	1:170:A:THR:H	2	0.16
(1,313)	1:229:A:GLY:H	1:204:A:VAL:HG11	20	0.16
(1,313)	1:229:A:GLY:H	1:204:A:VAL:HG12	20	0.16
(1,313)	1:229:A:GLY:H	1:204:A:VAL:HG13	20	0.16
(1,312)	1:229:A:GLY:H	1:172:A:THR:HB	2	0.16
(1,312)	1:229:A:GLY:H	1:172:A:THR:HB	16	0.16
(1,296)	1:196:A:TRP:HE1	1:191:A:GLU:HB2	19	0.16
(1,258)	1:166:A:VAL:HG11	1:157:A:LEU:HA	1	0.16
(1,258)	1:166:A:VAL:HG12	1:157:A:LEU:HA	1	0.16
(1,258)	1:166:A:VAL:HG13	1:157:A:LEU:HA	1	0.16
(1,258)	1:166:A:VAL:HG11	1:157:A:LEU:HA	3	0.16
(1,258)	1:166:A:VAL:HG12	1:157:A:LEU:HA	3	0.16
(1,258)	1:166:A:VAL:HG13	1:157:A:LEU:HA	3	0.16
(1,258)	1:166:A:VAL:HG11	1:157:A:LEU:HA	8	0.16
(1,258)	1:166:A:VAL:HG12	1:157:A:LEU:HA	8	0.16
(1,258)	1:166:A:VAL:HG13	1:157:A:LEU:HA	8	0.16
(1,251)	1:159:A:VAL:HG21	1:134:A:PHE:H	2	0.16
(1,251)	1:159:A:VAL:HG22	1:134:A:PHE:H	2	0.16
(1,251)	1:159:A:VAL:HG23	1:134:A:PHE:H	2	0.16
(1,251)	1:159:A:VAL:HG21	1:134:A:PHE:H	15	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,251)	1:159:A:VAL:HG22	1:134:A:PHE:H	15	0.16
(1,251)	1:159:A:VAL:HG23	1:134:A:PHE:H	15	0.16
(1,249)	1:159:A:VAL:HB	1:132:A:GLY:H	20	0.16
(1,231)	1:138:A:ILE:HG21	1:75:A:ASP:HB2	14	0.16
(1,231)	1:138:A:ILE:HG22	1:75:A:ASP:HB2	14	0.16
(1,231)	1:138:A:ILE:HG23	1:75:A:ASP:HB2	14	0.16
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD11	12	0.16
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD12	12	0.16
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD13	12	0.16
(1,209)	1:134:A:PHE:HD1	1:74:A:LEU:H	16	0.16
(1,209)	1:134:A:PHE:HD2	1:74:A:LEU:H	16	0.16
(1,203)	1:134:A:PHE:HA	1:72:A:LEU:HB2	2	0.16
(1,178)	1:118:A:SER:HB2	1:98:A:VAL:HG11	11	0.16
(1,178)	1:118:A:SER:HB2	1:98:A:VAL:HG12	11	0.16
(1,178)	1:118:A:SER:HB2	1:98:A:VAL:HG13	11	0.16
(1,154)	1:114:A:TYR:HE1	1:97:A:GLY:H	4	0.16
(1,154)	1:114:A:TYR:HE2	1:97:A:GLY:H	4	0.16
(1,143)	1:108:A:ALA:HB1	1:79:A:GLY:H	17	0.16
(1,143)	1:108:A:ALA:HB2	1:79:A:GLY:H	17	0.16
(1,143)	1:108:A:ALA:HB3	1:79:A:GLY:H	17	0.16
(1,132)	1:100:A:GLY:HA2	1:31:A:LEU:HD11	4	0.16
(1,132)	1:100:A:GLY:HA2	1:31:A:LEU:HD12	4	0.16
(1,132)	1:100:A:GLY:HA2	1:31:A:LEU:HD13	4	0.16
(1,132)	1:100:A:GLY:HA3	1:31:A:LEU:HD11	4	0.16
(1,132)	1:100:A:GLY:HA3	1:31:A:LEU:HD12	4	0.16
(1,132)	1:100:A:GLY:HA3	1:31:A:LEU:HD13	4	0.16
(1,124)	1:96:A:GLN:H	1:74:A:LEU:HD21	17	0.16
(1,124)	1:96:A:GLN:H	1:74:A:LEU:HD22	17	0.16
(1,124)	1:96:A:GLN:H	1:74:A:LEU:HD23	17	0.16
(1,106)	1:94:A:GLN:HE22	1:70:A:ASP:HA	14	0.16
(1,101)	1:92:A:PHE:H	1:87:A:LEU:HD21	3	0.16
(1,101)	1:92:A:PHE:H	1:87:A:LEU:HD22	3	0.16
(1,101)	1:92:A:PHE:H	1:87:A:LEU:HD23	3	0.16
(1,94)	1:90:A:ARG:H	1:57:A:VAL:HG21	9	0.16
(1,94)	1:90:A:ARG:H	1:57:A:VAL:HG22	9	0.16
(1,94)	1:90:A:ARG:H	1:57:A:VAL:HG23	9	0.16
(1,82)	1:27:A:LEU:HD11	1:21:A:SER:HA	8	0.16
(1,82)	1:27:A:LEU:HD12	1:21:A:SER:HA	8	0.16
(1,82)	1:27:A:LEU:HD13	1:21:A:SER:HA	8	0.16
(1,75)	1:237:A:GLN:H	1:196:A:TRP:HA	7	0.16
(1,75)	1:237:A:GLN:H	1:196:A:TRP:HA	20	0.16
(1,66)	1:200:A:VAL:H	1:232:A:TYR:HA	3	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,40)	1:100:A:GLY:H	1:121:A:THR:HA	5	0.16
(1,40)	1:100:A:GLY:H	1:121:A:THR:HA	8	0.16
(1,28)	1:237:A:GLN:H	1:197:A:GLU:H	17	0.16
(1,20)	1:230:A:ILE:H	1:170:A:THR:H	9	0.16
(5,13)	1:240:A:VAL:H	1:191:A:GLU:O	2	0.15
(4,225)	1:236:A:LYS:H	1:164:A:GLY:O	16	0.15
(4,219)	1:232:A:TYR:H	1:168:A:LEU:O	20	0.15
(4,209)	1:219:A:GLY:H	1:216:A:THR:O	6	0.15
(4,207)	1:209:A:LEU:H	1:205:A:ASP:O	18	0.15
(4,205)	1:200:A:VAL:H	1:233:A:LEU:O	17	0.15
(4,203)	1:199:A:LEU:H	1:233:A:LEU:O	3	0.15
(4,165)	1:169:A:THR:H	1:139:A:ILE:O	8	0.15
(4,165)	1:169:A:THR:H	1:139:A:ILE:O	10	0.15
(4,146)	1:152:A:ALA:N	1:149:A:PRO:O	19	0.15
(4,143)	1:151:A:SER:H	1:149:A:PRO:O	1	0.15
(4,138)	1:140:A:VAL:N	1:78:A:CYS:O	1	0.15
(4,117)	1:118:A:SER:H	1:97:A:GLY:O	8	0.15
(4,114)	1:114:A:TYR:N	1:108:A:ALA:O	2	0.15
(4,114)	1:114:A:TYR:N	1:108:A:ALA:O	11	0.15
(4,114)	1:114:A:TYR:N	1:108:A:ALA:O	18	0.15
(4,114)	1:114:A:TYR:N	1:108:A:ALA:O	19	0.15
(4,112)	1:113:A:LEU:N	1:108:A:ALA:O	4	0.15
(4,112)	1:113:A:LEU:N	1:108:A:ALA:O	8	0.15
(4,112)	1:113:A:LEU:N	1:108:A:ALA:O	13	0.15
(4,112)	1:113:A:LEU:N	1:108:A:ALA:O	18	0.15
(4,56)	1:72:A:LEU:N	1:135:A:ASP:OD1	18	0.15
(4,41)	1:58:A:ASP:H	1:54:A:ARG:O	1	0.15
(4,39)	1:57:A:VAL:H	1:53:A:PRO:O	19	0.15
(4,9)	1:11:A:LEU:H	1:146:A:GLY:O	4	0.15
(4,9)	1:11:A:LEU:H	1:146:A:GLY:O	10	0.15
(4,6)	1:8:A:ALA:N	1:4:A:ALA:O	2	0.15
(2,277)	1:57:A:VAL:HG21	1:56:A:ALA:H	3	0.15
(2,277)	1:57:A:VAL:HG22	1:56:A:ALA:H	3	0.15
(2,277)	1:57:A:VAL:HG23	1:56:A:ALA:H	3	0.15
(2,277)	1:57:A:VAL:HG21	1:56:A:ALA:H	14	0.15
(2,277)	1:57:A:VAL:HG22	1:56:A:ALA:H	14	0.15
(2,277)	1:57:A:VAL:HG23	1:56:A:ALA:H	14	0.15
(2,277)	1:57:A:VAL:HG21	1:56:A:ALA:H	20	0.15
(2,277)	1:57:A:VAL:HG22	1:56:A:ALA:H	20	0.15
(2,277)	1:57:A:VAL:HG23	1:56:A:ALA:H	20	0.15
(2,193)	1:181:A:GLU:H	1:179:A:TYR:HD1	19	0.15
(2,193)	1:181:A:GLU:H	1:179:A:TYR:HD2	19	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,192)	1:159:A:VAL:H	1:156:A:LEU:HD11	18	0.15
(2,192)	1:159:A:VAL:H	1:156:A:LEU:HD12	18	0.15
(2,192)	1:159:A:VAL:H	1:156:A:LEU:HD13	18	0.15
(2,162)	1:153:A:ILE:H	1:149:A:PRO:HB3	4	0.15
(2,103)	1:227:A:ILE:HG21	1:173:A:ASN:HB2	4	0.15
(2,103)	1:227:A:ILE:HG22	1:173:A:ASN:HB2	4	0.15
(2,103)	1:227:A:ILE:HG23	1:173:A:ASN:HB2	4	0.15
(2,92)	1:167:A:CYS:HB3	1:139:A:ILE:HA	5	0.15
(2,66)	1:122:A:LEU:HD21	1:16:A:ALA:H	10	0.15
(2,66)	1:122:A:LEU:HD22	1:16:A:ALA:H	10	0.15
(2,66)	1:122:A:LEU:HD23	1:16:A:ALA:H	10	0.15
(2,45)	1:108:A:ALA:HB1	1:83:A:VAL:H	2	0.15
(2,45)	1:108:A:ALA:HB2	1:83:A:VAL:H	2	0.15
(2,45)	1:108:A:ALA:HB3	1:83:A:VAL:H	2	0.15
(2,45)	1:108:A:ALA:HB1	1:83:A:VAL:H	4	0.15
(2,45)	1:108:A:ALA:HB2	1:83:A:VAL:H	4	0.15
(2,45)	1:108:A:ALA:HB3	1:83:A:VAL:H	4	0.15
(2,37)	1:96:A:GLN:HG3	1:74:A:LEU:HD21	2	0.15
(2,37)	1:96:A:GLN:HG3	1:74:A:LEU:HD22	2	0.15
(2,37)	1:96:A:GLN:HG3	1:74:A:LEU:HD23	2	0.15
(1,2097)	2:300:A:SAH:H1'	1:100:A:GLY:H	4	0.15
(1,2087)	2:300:A:SAH:HA	1:37:A:TRP:HB2	9	0.15
(1,2087)	2:300:A:SAH:HA	1:37:A:TRP:HB3	9	0.15
(1,2002)	1:195:A:VAL:H	1:195:A:VAL:HG11	1	0.15
(1,2002)	1:195:A:VAL:H	1:195:A:VAL:HG12	1	0.15
(1,2002)	1:195:A:VAL:H	1:195:A:VAL:HG13	1	0.15
(1,1902)	1:156:A:LEU:H	1:156:A:LEU:HD11	3	0.15
(1,1902)	1:156:A:LEU:H	1:156:A:LEU:HD12	3	0.15
(1,1902)	1:156:A:LEU:H	1:156:A:LEU:HD13	3	0.15
(1,1902)	1:156:A:LEU:H	1:156:A:LEU:HD11	18	0.15
(1,1902)	1:156:A:LEU:H	1:156:A:LEU:HD12	18	0.15
(1,1902)	1:156:A:LEU:H	1:156:A:LEU:HD13	18	0.15
(1,1871)	1:138:A:ILE:HA	1:138:A:ILE:HG12	12	0.15
(1,1753)	1:86:A:GLU:H	1:86:A:GLU:HG3	18	0.15
(1,1696)	1:65:A:ARG:HD2	1:65:A:ARG:H	12	0.15
(1,1470)	1:202:A:GLN:HB2	1:202:A:GLN:H	12	0.15
(1,1393)	1:116:A:HIS:HB2	1:116:A:HIS:H	2	0.15
(1,1377)	1:96:A:GLN:HB3	1:96:A:GLN:H	1	0.15
(1,1377)	1:96:A:GLN:HB3	1:96:A:GLN:H	20	0.15
(1,1362)	1:83:A:VAL:HB	1:83:A:VAL:H	17	0.15
(1,1362)	1:83:A:VAL:HB	1:83:A:VAL:H	18	0.15
(1,1118)	1:238:A:GLU:H	1:237:A:GLN:HG2	7	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1102)	1:203:A:PRO:HD3	1:202:A:GLN:HE21	17	0.15
(1,1099)	1:202:A:GLN:H	1:201:A:THR:HG21	10	0.15
(1,1099)	1:202:A:GLN:H	1:201:A:THR:HG22	10	0.15
(1,1099)	1:202:A:GLN:H	1:201:A:THR:HG23	10	0.15
(1,1099)	1:202:A:GLN:H	1:201:A:THR:HG21	15	0.15
(1,1099)	1:202:A:GLN:H	1:201:A:THR:HG22	15	0.15
(1,1099)	1:202:A:GLN:H	1:201:A:THR:HG23	15	0.15
(1,1082)	1:184:A:GLU:HG2	1:183:A:LEU:HG	18	0.15
(1,1074)	1:169:A:THR:HG21	1:168:A:LEU:HA	14	0.15
(1,1074)	1:169:A:THR:HG22	1:168:A:LEU:HA	14	0.15
(1,1074)	1:169:A:THR:HG23	1:168:A:LEU:HA	14	0.15
(1,1065)	1:154:A:PRO:HD3	1:153:A:ILE:HG13	4	0.15
(1,1064)	1:154:A:PRO:HD2	1:153:A:ILE:HG13	16	0.15
(1,1053)	1:139:A:ILE:H	1:138:A:ILE:HG12	16	0.15
(1,1046)	1:132:A:GLY:H	1:131:A:GLU:HG3	19	0.15
(1,1042)	1:129:A:ASP:H	1:128:A:PRO:HD2	2	0.15
(1,1036)	1:122:A:LEU:HD11	1:121:A:THR:H	2	0.15
(1,1036)	1:122:A:LEU:HD12	1:121:A:THR:H	2	0.15
(1,1036)	1:122:A:LEU:HD13	1:121:A:THR:H	2	0.15
(1,1028)	1:114:A:TYR:H	1:113:A:LEU:HG	2	0.15
(1,1028)	1:114:A:TYR:H	1:113:A:LEU:HG	10	0.15
(1,1021)	1:97:A:GLY:H	1:96:A:GLN:HG2	6	0.15
(1,1021)	1:97:A:GLY:H	1:96:A:GLN:HG2	10	0.15
(1,1018)	1:94:A:GLN:HG2	1:93:A:LEU:H	2	0.15
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG21	7	0.15
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG22	7	0.15
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG23	7	0.15
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG21	14	0.15
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG22	14	0.15
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG23	14	0.15
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG21	20	0.15
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG22	20	0.15
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG23	20	0.15
(1,978)	1:48:A:LEU:HD11	1:47:A:ALA:H	2	0.15
(1,978)	1:48:A:LEU:HD12	1:47:A:ALA:H	2	0.15
(1,978)	1:48:A:LEU:HD13	1:47:A:ALA:H	2	0.15
(1,975)	1:45:A:VAL:HG11	1:44:A:ASP:HB3	14	0.15
(1,975)	1:45:A:VAL:HG12	1:44:A:ASP:HB3	14	0.15
(1,975)	1:45:A:VAL:HG13	1:44:A:ASP:HB3	14	0.15
(1,961)	1:236:A:LYS:HB2	1:237:A:GLN:H	19	0.15
(1,961)	1:236:A:LYS:HB3	1:237:A:GLN:H	19	0.15
(1,879)	1:115:A:HIS:HB3	1:116:A:HIS:H	4	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,864)	1:88:A:GLN:HB2	1:89:A:ALA:H	15	0.15
(1,839)	1:44:A:ASP:HB3	1:45:A:VAL:H	6	0.15
(1,839)	1:44:A:ASP:HB3	1:45:A:VAL:H	11	0.15
(1,544)	1:172:A:THR:HG21	1:170:A:THR:H	9	0.15
(1,544)	1:172:A:THR:HG22	1:170:A:THR:H	9	0.15
(1,544)	1:172:A:THR:HG23	1:170:A:THR:H	9	0.15
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG21	15	0.15
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG22	15	0.15
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG23	15	0.15
(1,511)	1:73:A:ILE:HD11	1:71:A:ALA:HB1	11	0.15
(1,511)	1:73:A:ILE:HD11	1:71:A:ALA:HB2	11	0.15
(1,511)	1:73:A:ILE:HD11	1:71:A:ALA:HB3	11	0.15
(1,511)	1:73:A:ILE:HD12	1:71:A:ALA:HB1	11	0.15
(1,511)	1:73:A:ILE:HD12	1:71:A:ALA:HB2	11	0.15
(1,511)	1:73:A:ILE:HD12	1:71:A:ALA:HB3	11	0.15
(1,511)	1:73:A:ILE:HD13	1:71:A:ALA:HB1	11	0.15
(1,511)	1:73:A:ILE:HD13	1:71:A:ALA:HB2	11	0.15
(1,511)	1:73:A:ILE:HD13	1:71:A:ALA:HB3	11	0.15
(1,507)	1:68:A:PRO:HA	1:64:A:PHE:HZ	3	0.15
(1,507)	1:68:A:PRO:HA	1:64:A:PHE:HZ	18	0.15
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG11	12	0.15
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG12	12	0.15
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG13	12	0.15
(1,502)	1:60:A:LEU:HD21	1:57:A:VAL:HA	10	0.15
(1,502)	1:60:A:LEU:HD22	1:57:A:VAL:HA	10	0.15
(1,502)	1:60:A:LEU:HD23	1:57:A:VAL:HA	10	0.15
(1,483)	1:57:A:VAL:HA	1:60:A:LEU:HB2	5	0.15
(1,483)	1:57:A:VAL:HA	1:60:A:LEU:HB2	16	0.15
(1,461)	1:84:A:ALA:H	1:87:A:LEU:HB2	11	0.15
(1,455)	1:58:A:ASP:H	1:54:A:ARG:HB2	19	0.15
(1,455)	1:58:A:ASP:H	1:54:A:ARG:HB3	19	0.15
(1,452)	1:28:A:ALA:H	1:26:A:ASP:HB2	18	0.15
(1,452)	1:28:A:ALA:H	1:26:A:ASP:HB3	18	0.15
(1,451)	1:14:A:VAL:H	1:17:A:ARG:HB3	13	0.15
(1,408)	1:12:A:PRO:HA	1:15:A:LEU:H	11	0.15
(1,408)	1:12:A:PRO:HA	1:15:A:LEU:H	17	0.15
(1,349)	1:237:A:GLN:HE21	1:195:A:VAL:HA	13	0.15
(1,349)	1:237:A:GLN:HE22	1:195:A:VAL:HA	13	0.15
(1,345)	1:236:A:LYS:HA	1:196:A:TRP:HB3	3	0.15
(1,337)	1:234:A:TYR:HE1	1:198:A:CYS:H	11	0.15
(1,337)	1:234:A:TYR:HE2	1:198:A:CYS:H	11	0.15
(1,328)	1:232:A:TYR:HE1	1:187:A:LEU:HD11	11	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,328)	1:232:A:TYR:HE1	1:187:A:LEU:HD12	11	0.15
(1,328)	1:232:A:TYR:HE1	1:187:A:LEU:HD13	11	0.15
(1,328)	1:232:A:TYR:HE2	1:187:A:LEU:HD11	11	0.15
(1,328)	1:232:A:TYR:HE2	1:187:A:LEU:HD12	11	0.15
(1,328)	1:232:A:TYR:HE2	1:187:A:LEU:HD13	11	0.15
(1,327)	1:232:A:TYR:HE1	1:169:A:THR:HA	2	0.15
(1,327)	1:232:A:TYR:HE2	1:169:A:THR:HA	2	0.15
(1,312)	1:229:A:GLY:H	1:172:A:THR:HB	10	0.15
(1,302)	1:226:A:PHE:HD1	1:177:A:LEU:HD21	1	0.15
(1,302)	1:226:A:PHE:HD1	1:177:A:LEU:HD22	1	0.15
(1,302)	1:226:A:PHE:HD1	1:177:A:LEU:HD23	1	0.15
(1,302)	1:226:A:PHE:HD2	1:177:A:LEU:HD21	1	0.15
(1,302)	1:226:A:PHE:HD2	1:177:A:LEU:HD22	1	0.15
(1,302)	1:226:A:PHE:HD2	1:177:A:LEU:HD23	1	0.15
(1,295)	1:196:A:TRP:HE1	1:191:A:GLU:HA	17	0.15
(1,279)	1:196:A:TRP:HH2	1:187:A:LEU:HD11	14	0.15
(1,279)	1:196:A:TRP:HH2	1:187:A:LEU:HD12	14	0.15
(1,279)	1:196:A:TRP:HH2	1:187:A:LEU:HD13	14	0.15
(1,250)	1:159:A:VAL:HG21	1:133:A:THR:HB	12	0.15
(1,250)	1:159:A:VAL:HG22	1:133:A:THR:HB	12	0.15
(1,250)	1:159:A:VAL:HG23	1:133:A:THR:HB	12	0.15
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG11	13	0.15
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG12	13	0.15
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG13	13	0.15
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG11	13	0.15
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG12	13	0.15
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG13	13	0.15
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG11	13	0.15
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG12	13	0.15
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG13	13	0.15
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG11	15	0.15
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG12	15	0.15
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG13	15	0.15
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG11	15	0.15
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG12	15	0.15
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG13	15	0.15
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG11	15	0.15
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG12	15	0.15
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG13	15	0.15
(1,237)	1:149:A:PRO:HB3	1:123:A:GLY:HA3	3	0.15
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD11	19	0.15
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD12	19	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD13	19	0.15
(1,209)	1:134:A:PHE:HD1	1:74:A:LEU:H	12	0.15
(1,209)	1:134:A:PHE:HD2	1:74:A:LEU:H	12	0.15
(1,205)	1:134:A:PHE:HD1	1:73:A:ILE:H	10	0.15
(1,205)	1:134:A:PHE:HD2	1:73:A:ILE:H	10	0.15
(1,203)	1:134:A:PHE:HA	1:72:A:LEU:HB2	7	0.15
(1,203)	1:134:A:PHE:HA	1:72:A:LEU:HB2	11	0.15
(1,203)	1:134:A:PHE:HA	1:72:A:LEU:HB2	12	0.15
(1,200)	1:129:A:ASP:HB3	1:74:A:LEU:HD21	12	0.15
(1,200)	1:129:A:ASP:HB3	1:74:A:LEU:HD22	12	0.15
(1,200)	1:129:A:ASP:HB3	1:74:A:LEU:HD23	12	0.15
(1,196)	1:122:A:LEU:HD11	1:15:A:LEU:H	17	0.15
(1,196)	1:122:A:LEU:HD12	1:15:A:LEU:H	17	0.15
(1,196)	1:122:A:LEU:HD13	1:15:A:LEU:H	17	0.15
(1,189)	1:120:A:CYS:H	1:98:A:VAL:HG11	5	0.15
(1,189)	1:120:A:CYS:H	1:98:A:VAL:HG12	5	0.15
(1,189)	1:120:A:CYS:H	1:98:A:VAL:HG13	5	0.15
(1,188)	1:120:A:CYS:H	1:98:A:VAL:HB	6	0.15
(1,183)	1:119:A:LEU:H	1:98:A:VAL:HG11	4	0.15
(1,183)	1:119:A:LEU:H	1:98:A:VAL:HG12	4	0.15
(1,183)	1:119:A:LEU:H	1:98:A:VAL:HG13	4	0.15
(1,168)	1:117:A:LEU:HB2	1:97:A:GLY:H	8	0.15
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG11	8	0.15
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG12	8	0.15
(1,148)	1:111:A:ARG:HD3	1:85:A:VAL:HG13	8	0.15
(1,130)	1:100:A:GLY:H	1:31:A:LEU:HD11	12	0.15
(1,130)	1:100:A:GLY:H	1:31:A:LEU:HD12	12	0.15
(1,130)	1:100:A:GLY:H	1:31:A:LEU:HD13	12	0.15
(1,129)	1:99:A:ASP:HB3	1:79:A:GLY:H	14	0.15
(1,129)	1:99:A:ASP:HB3	1:79:A:GLY:H	17	0.15
(1,106)	1:94:A:GLN:HE22	1:70:A:ASP:HA	4	0.15
(1,106)	1:94:A:GLN:HE22	1:70:A:ASP:HA	12	0.15
(1,106)	1:94:A:GLN:HE22	1:70:A:ASP:HA	19	0.15
(1,87)	1:50:A:TYR:HE1	1:45:A:VAL:HG21	7	0.15
(1,87)	1:50:A:TYR:HE1	1:45:A:VAL:HG22	7	0.15
(1,87)	1:50:A:TYR:HE1	1:45:A:VAL:HG23	7	0.15
(1,87)	1:50:A:TYR:HE2	1:45:A:VAL:HG21	7	0.15
(1,87)	1:50:A:TYR:HE2	1:45:A:VAL:HG22	7	0.15
(1,87)	1:50:A:TYR:HE2	1:45:A:VAL:HG23	7	0.15
(1,81)	1:27:A:LEU:HD11	1:17:A:ARG:HD2	4	0.15
(1,81)	1:27:A:LEU:HD12	1:17:A:ARG:HD2	4	0.15
(1,81)	1:27:A:LEU:HD13	1:17:A:ARG:HD2	4	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,28)	1:237:A:GLN:H	1:197:A:GLU:H	6	0.15
(1,28)	1:237:A:GLN:H	1:197:A:GLU:H	13	0.15
(5,11)	1:223:A:ASN:H	1:220:A:THR:O	8	0.14
(5,9)	1:222:A:ALA:H	1:219:A:GLY:O	15	0.14
(5,5)	1:132:A:GLY:H	1:158:A:ARG:O	12	0.14
(4,225)	1:236:A:LYS:H	1:164:A:GLY:O	10	0.14
(4,218)	1:231:A:ILE:N	1:202:A:GLN:O	7	0.14
(4,211)	1:225:A:GLY:H	1:210:A:ALA:O	5	0.14
(4,205)	1:200:A:VAL:H	1:233:A:LEU:O	7	0.14
(4,205)	1:200:A:VAL:H	1:233:A:LEU:O	9	0.14
(4,205)	1:200:A:VAL:H	1:233:A:LEU:O	11	0.14
(4,197)	1:195:A:VAL:H	1:190:A:LEU:O	8	0.14
(4,197)	1:195:A:VAL:H	1:190:A:LEU:O	9	0.14
(4,174)	1:182:A:THR:N	1:178:A:PRO:O	8	0.14
(4,174)	1:182:A:THR:N	1:178:A:PRO:O	10	0.14
(4,171)	1:181:A:GLU:H	1:178:A:PRO:O	18	0.14
(4,170)	1:173:A:ASN:N	1:227:A:ILE:O	14	0.14
(4,141)	1:144:A:SER:H	1:148:A:VAL:O	11	0.14
(4,117)	1:118:A:SER:H	1:97:A:GLY:O	2	0.14
(4,115)	1:116:A:HIS:H	1:95:A:VAL:O	7	0.14
(4,115)	1:116:A:HIS:H	1:95:A:VAL:O	20	0.14
(4,114)	1:114:A:TYR:N	1:108:A:ALA:O	7	0.14
(4,112)	1:113:A:LEU:N	1:108:A:ALA:O	2	0.14
(4,87)	1:93:A:LEU:H	1:68:A:PRO:O	17	0.14
(4,82)	1:89:A:ALA:N	1:85:A:VAL:O	18	0.14
(4,81)	1:89:A:ALA:H	1:85:A:VAL:O	5	0.14
(4,73)	1:84:A:ALA:H	1:80:A:THR:O	17	0.14
(4,63)	1:77:A:ALA:H	1:98:A:VAL:O	10	0.14
(4,56)	1:72:A:LEU:N	1:135:A:ASP:OD1	15	0.14
(4,51)	1:69:A:HIS:H	1:67:A:SER:O	6	0.14
(4,51)	1:69:A:HIS:H	1:67:A:SER:O	16	0.14
(4,45)	1:61:A:SER:H	1:57:A:VAL:O	5	0.14
(4,42)	1:58:A:ASP:N	1:54:A:ARG:O	2	0.14
(4,31)	1:43:A:GLN:H	1:39:A:PRO:O	1	0.14
(4,31)	1:43:A:GLN:H	1:39:A:PRO:O	18	0.14
(4,11)	1:14:A:VAL:H	1:10:A:ARG:O	20	0.14
(2,277)	1:57:A:VAL:HG21	1:56:A:ALA:H	8	0.14
(2,277)	1:57:A:VAL:HG22	1:56:A:ALA:H	8	0.14
(2,277)	1:57:A:VAL:HG23	1:56:A:ALA:H	8	0.14
(2,197)	1:206:A:HIS:HB3	1:204:A:VAL:HG11	15	0.14
(2,197)	1:206:A:HIS:HB3	1:204:A:VAL:HG12	15	0.14
(2,197)	1:206:A:HIS:HB3	1:204:A:VAL:HG13	15	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,162)	1:153:A:ILE:H	1:149:A:PRO:HB3	6	0.14
(2,161)	1:144:A:SER:H	1:142:A:ALA:HB1	20	0.14
(2,161)	1:144:A:SER:H	1:142:A:ALA:HB2	20	0.14
(2,161)	1:144:A:SER:H	1:142:A:ALA:HB3	20	0.14
(2,145)	1:41:A:TYR:H	1:43:A:GLN:HB2	1	0.14
(2,145)	1:41:A:TYR:H	1:43:A:GLN:HB3	1	0.14
(2,115)	1:234:A:TYR:HD1	1:168:A:LEU:HD11	17	0.14
(2,115)	1:234:A:TYR:HD1	1:168:A:LEU:HD12	17	0.14
(2,115)	1:234:A:TYR:HD1	1:168:A:LEU:HD13	17	0.14
(2,115)	1:234:A:TYR:HD2	1:168:A:LEU:HD11	17	0.14
(2,115)	1:234:A:TYR:HD2	1:168:A:LEU:HD12	17	0.14
(2,115)	1:234:A:TYR:HD2	1:168:A:LEU:HD13	17	0.14
(2,106)	1:229:A:GLY:H	1:204:A:VAL:HB	9	0.14
(2,93)	1:168:A:LEU:HA	1:143:A:LEU:HG	1	0.14
(2,92)	1:167:A:CYS:HB3	1:139:A:ILE:HA	3	0.14
(2,90)	1:165:A:LEU:HG	1:64:A:PHE:HB3	7	0.14
(2,72)	1:135:A:ASP:HB3	1:71:A:ALA:H	2	0.14
(2,66)	1:122:A:LEU:HD21	1:16:A:ALA:H	12	0.14
(2,66)	1:122:A:LEU:HD22	1:16:A:ALA:H	12	0.14
(2,66)	1:122:A:LEU:HD23	1:16:A:ALA:H	12	0.14
(2,66)	1:122:A:LEU:HD21	1:16:A:ALA:H	16	0.14
(2,66)	1:122:A:LEU:HD22	1:16:A:ALA:H	16	0.14
(2,66)	1:122:A:LEU:HD23	1:16:A:ALA:H	16	0.14
(2,65)	1:121:A:THR:H	1:98:A:VAL:HB	12	0.14
(2,46)	1:109:A:ARG:H	1:99:A:ASP:HB2	15	0.14
(2,37)	1:96:A:GLN:HG3	1:74:A:LEU:HD21	9	0.14
(2,37)	1:96:A:GLN:HG3	1:74:A:LEU:HD22	9	0.14
(2,37)	1:96:A:GLN:HG3	1:74:A:LEU:HD23	9	0.14
(2,36)	1:96:A:GLN:HE21	1:74:A:LEU:HD11	7	0.14
(2,36)	1:96:A:GLN:HE21	1:74:A:LEU:HD12	7	0.14
(2,36)	1:96:A:GLN:HE21	1:74:A:LEU:HD13	7	0.14
(1,2103)	2:300:A:SAH:H2	1:121:A:THR:HG21	4	0.14
(1,2103)	2:300:A:SAH:H2	1:121:A:THR:HG22	4	0.14
(1,2103)	2:300:A:SAH:H2	1:121:A:THR:HG23	4	0.14
(1,1902)	1:156:A:LEU:H	1:156:A:LEU:HD11	20	0.14
(1,1902)	1:156:A:LEU:H	1:156:A:LEU:HD12	20	0.14
(1,1902)	1:156:A:LEU:H	1:156:A:LEU:HD13	20	0.14
(1,1871)	1:138:A:ILE:HA	1:138:A:ILE:HG12	10	0.14
(1,1768)	1:93:A:LEU:HD11	1:93:A:LEU:H	12	0.14
(1,1768)	1:93:A:LEU:HD12	1:93:A:LEU:H	12	0.14
(1,1768)	1:93:A:LEU:HD13	1:93:A:LEU:H	12	0.14
(1,1765)	1:92:A:PHE:H	1:92:A:PHE:HE1	2	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1695)	1:64:A:PHE:HB2	1:64:A:PHE:HD1	4	0.14
(1,1662)	1:33:A:PHE:H	1:33:A:PHE:HD1	18	0.14
(1,1646)	1:17:A:ARG:HG3	1:17:A:ARG:H	10	0.14
(1,1471)	1:205:A:ASP:HB3	1:205:A:ASP:H	8	0.14
(1,1471)	1:205:A:ASP:HB3	1:205:A:ASP:H	13	0.14
(1,1378)	1:99:A:ASP:HB2	1:99:A:ASP:H	5	0.14
(1,1377)	1:96:A:GLN:HB3	1:96:A:GLN:H	2	0.14
(1,1377)	1:96:A:GLN:HB3	1:96:A:GLN:H	11	0.14
(1,1370)	1:88:A:GLN:HB3	1:88:A:GLN:H	5	0.14
(1,1362)	1:83:A:VAL:HB	1:83:A:VAL:H	10	0.14
(1,1357)	1:75:A:ASP:HB3	1:75:A:ASP:H	2	0.14
(1,1357)	1:75:A:ASP:HB3	1:75:A:ASP:H	4	0.14
(1,1357)	1:75:A:ASP:HB3	1:75:A:ASP:H	13	0.14
(1,1352)	1:70:A:ASP:HB2	1:70:A:ASP:H	5	0.14
(1,1118)	1:238:A:GLU:H	1:237:A:GLN:HG2	15	0.14
(1,1100)	1:202:A:GLN:HE22	1:201:A:THR:HA	20	0.14
(1,1091)	1:193:A:ALA:H	1:192:A:ARG:HD3	1	0.14
(1,1091)	1:193:A:ALA:H	1:192:A:ARG:HD3	13	0.14
(1,1091)	1:193:A:ALA:H	1:192:A:ARG:HD3	20	0.14
(1,1058)	1:149:A:PRO:HD3	1:148:A:VAL:HB	8	0.14
(1,1036)	1:122:A:LEU:HD11	1:121:A:THR:H	7	0.14
(1,1036)	1:122:A:LEU:HD12	1:121:A:THR:H	7	0.14
(1,1036)	1:122:A:LEU:HD13	1:121:A:THR:H	7	0.14
(1,1036)	1:122:A:LEU:HD11	1:121:A:THR:H	10	0.14
(1,1036)	1:122:A:LEU:HD12	1:121:A:THR:H	10	0.14
(1,1036)	1:122:A:LEU:HD13	1:121:A:THR:H	10	0.14
(1,1028)	1:114:A:TYR:H	1:113:A:LEU:HG	18	0.14
(1,1018)	1:94:A:GLN:HG2	1:93:A:LEU:H	14	0.14
(1,1018)	1:94:A:GLN:HG2	1:93:A:LEU:H	20	0.14
(1,1015)	1:91:A:GLY:H	1:90:A:ARG:HD3	5	0.14
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG21	8	0.14
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG22	8	0.14
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG23	8	0.14
(1,984)	1:54:A:ARG:H	1:53:A:PRO:HD3	4	0.14
(1,975)	1:45:A:VAL:HG11	1:44:A:ASP:HB3	19	0.14
(1,975)	1:45:A:VAL:HG12	1:44:A:ASP:HB3	19	0.14
(1,975)	1:45:A:VAL:HG13	1:44:A:ASP:HB3	19	0.14
(1,963)	1:238:A:GLU:HB2	1:239:A:THR:H	3	0.14
(1,947)	1:223:A:ASN:HB2	1:224:A:ASP:H	2	0.14
(1,947)	1:223:A:ASN:HB2	1:224:A:ASP:H	4	0.14
(1,945)	1:222:A:ALA:HB1	1:223:A:ASN:H	17	0.14
(1,945)	1:222:A:ALA:HB2	1:223:A:ASN:H	17	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,945)	1:222:A:ALA:HB3	1:223:A:ASN:H	17	0.14
(1,938)	1:199:A:LEU:HB2	1:200:A:VAL:H	4	0.14
(1,938)	1:199:A:LEU:HB2	1:200:A:VAL:H	18	0.14
(1,899)	1:144:A:SER:HB2	1:145:A:GLU:H	9	0.14
(1,898)	1:144:A:SER:HB3	1:145:A:GLU:H	13	0.14
(1,884)	1:118:A:SER:HB3	1:119:A:LEU:H	5	0.14
(1,883)	1:117:A:LEU:HB2	1:118:A:SER:H	12	0.14
(1,839)	1:44:A:ASP:HB3	1:45:A:VAL:H	12	0.14
(1,839)	1:44:A:ASP:HB3	1:45:A:VAL:H	20	0.14
(1,655)	1:176:A:ASN:H	1:175:A:SER:H	15	0.14
(1,647)	1:161:A:LYS:H	1:160:A:THR:H	15	0.14
(1,545)	1:172:A:THR:H	1:170:A:THR:HG21	3	0.14
(1,545)	1:172:A:THR:H	1:170:A:THR:HG22	3	0.14
(1,545)	1:172:A:THR:H	1:170:A:THR:HG23	3	0.14
(1,545)	1:172:A:THR:H	1:170:A:THR:HG21	14	0.14
(1,545)	1:172:A:THR:H	1:170:A:THR:HG22	14	0.14
(1,545)	1:172:A:THR:H	1:170:A:THR:HG23	14	0.14
(1,530)	1:133:A:THR:HG21	1:129:A:ASP:HB3	16	0.14
(1,530)	1:133:A:THR:HG22	1:129:A:ASP:HB3	16	0.14
(1,530)	1:133:A:THR:HG23	1:129:A:ASP:HB3	16	0.14
(1,522)	1:113:A:LEU:HD21	1:111:A:ARG:HD3	18	0.14
(1,522)	1:113:A:LEU:HD22	1:111:A:ARG:HD3	18	0.14
(1,522)	1:113:A:LEU:HD23	1:111:A:ARG:HD3	18	0.14
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG21	12	0.14
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG22	12	0.14
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG23	12	0.14
(1,511)	1:73:A:ILE:HD11	1:71:A:ALA:HB1	10	0.14
(1,511)	1:73:A:ILE:HD11	1:71:A:ALA:HB2	10	0.14
(1,511)	1:73:A:ILE:HD11	1:71:A:ALA:HB3	10	0.14
(1,511)	1:73:A:ILE:HD12	1:71:A:ALA:HB1	10	0.14
(1,511)	1:73:A:ILE:HD12	1:71:A:ALA:HB2	10	0.14
(1,511)	1:73:A:ILE:HD12	1:71:A:ALA:HB3	10	0.14
(1,511)	1:73:A:ILE:HD13	1:71:A:ALA:HB1	10	0.14
(1,511)	1:73:A:ILE:HD13	1:71:A:ALA:HB2	10	0.14
(1,511)	1:73:A:ILE:HD13	1:71:A:ALA:HB3	10	0.14
(1,507)	1:68:A:PRO:HA	1:64:A:PHE:HZ	1	0.14
(1,497)	1:45:A:VAL:HG11	1:42:A:ASP:HA	3	0.14
(1,497)	1:45:A:VAL:HG12	1:42:A:ASP:HA	3	0.14
(1,497)	1:45:A:VAL:HG13	1:42:A:ASP:HA	3	0.14
(1,497)	1:45:A:VAL:HG11	1:42:A:ASP:HA	20	0.14
(1,497)	1:45:A:VAL:HG12	1:42:A:ASP:HA	20	0.14
(1,497)	1:45:A:VAL:HG13	1:42:A:ASP:HA	20	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,461)	1:84:A:ALA:H	1:87:A:LEU:HB2	6	0.14
(1,455)	1:58:A:ASP:H	1:54:A:ARG:HB2	20	0.14
(1,455)	1:58:A:ASP:H	1:54:A:ARG:HB3	20	0.14
(1,451)	1:14:A:VAL:H	1:17:A:ARG:HB3	19	0.14
(1,406)	1:10:A:ARG:HA	1:13:A:GLN:H	9	0.14
(1,341)	1:235:A:ARG:HA	1:165:A:LEU:HD11	11	0.14
(1,341)	1:235:A:ARG:HA	1:165:A:LEU:HD12	11	0.14
(1,341)	1:235:A:ARG:HA	1:165:A:LEU:HD13	11	0.14
(1,340)	1:235:A:ARG:HD2	1:163:A:GLY:HA2	14	0.14
(1,340)	1:235:A:ARG:HD3	1:163:A:GLY:HA2	14	0.14
(1,327)	1:232:A:TYR:HE1	1:169:A:THR:HA	4	0.14
(1,327)	1:232:A:TYR:HE2	1:169:A:THR:HA	4	0.14
(1,318)	1:231:A:ILE:HD11	1:52:A:ALA:HA	12	0.14
(1,318)	1:231:A:ILE:HD12	1:52:A:ALA:HA	12	0.14
(1,318)	1:231:A:ILE:HD13	1:52:A:ALA:HA	12	0.14
(1,313)	1:229:A:GLY:H	1:204:A:VAL:HG11	10	0.14
(1,313)	1:229:A:GLY:H	1:204:A:VAL:HG12	10	0.14
(1,313)	1:229:A:GLY:H	1:204:A:VAL:HG13	10	0.14
(1,313)	1:229:A:GLY:H	1:204:A:VAL:HG11	11	0.14
(1,313)	1:229:A:GLY:H	1:204:A:VAL:HG12	11	0.14
(1,313)	1:229:A:GLY:H	1:204:A:VAL:HG13	11	0.14
(1,313)	1:229:A:GLY:H	1:204:A:VAL:HG11	14	0.14
(1,313)	1:229:A:GLY:H	1:204:A:VAL:HG12	14	0.14
(1,313)	1:229:A:GLY:H	1:204:A:VAL:HG13	14	0.14
(1,313)	1:229:A:GLY:H	1:204:A:VAL:HG11	16	0.14
(1,313)	1:229:A:GLY:H	1:204:A:VAL:HG12	16	0.14
(1,313)	1:229:A:GLY:H	1:204:A:VAL:HG13	16	0.14
(1,296)	1:196:A:TRP:HE1	1:191:A:GLU:HB2	15	0.14
(1,249)	1:159:A:VAL:HB	1:132:A:GLY:H	15	0.14
(1,244)	1:155:A:GLU:HG2	1:127:A:LEU:H	2	0.14
(1,244)	1:155:A:GLU:HG3	1:127:A:LEU:H	2	0.14
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG11	14	0.14
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG12	14	0.14
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG13	14	0.14
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG11	14	0.14
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG12	14	0.14
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG13	14	0.14
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG11	14	0.14
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG12	14	0.14
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG13	14	0.14
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG11	17	0.14
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG12	17	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG13	17	0.14
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG11	17	0.14
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG12	17	0.14
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG13	17	0.14
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG11	17	0.14
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG12	17	0.14
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG13	17	0.14
(1,237)	1:149:A:PRO:HB3	1:123:A:GLY:HA3	13	0.14
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG11	17	0.14
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG12	17	0.14
(1,233)	1:138:A:ILE:H	1:95:A:VAL:HG13	17	0.14
(1,231)	1:138:A:ILE:HG21	1:75:A:ASP:HB2	2	0.14
(1,231)	1:138:A:ILE:HG22	1:75:A:ASP:HB2	2	0.14
(1,231)	1:138:A:ILE:HG23	1:75:A:ASP:HB2	2	0.14
(1,209)	1:134:A:PHE:HD1	1:74:A:LEU:H	2	0.14
(1,209)	1:134:A:PHE:HD2	1:74:A:LEU:H	2	0.14
(1,205)	1:134:A:PHE:HD1	1:73:A:ILE:H	16	0.14
(1,205)	1:134:A:PHE:HD2	1:73:A:ILE:H	16	0.14
(1,203)	1:134:A:PHE:HA	1:72:A:LEU:HB2	9	0.14
(1,188)	1:120:A:CYS:H	1:98:A:VAL:HB	5	0.14
(1,183)	1:119:A:LEU:H	1:98:A:VAL:HG11	5	0.14
(1,183)	1:119:A:LEU:H	1:98:A:VAL:HG12	5	0.14
(1,183)	1:119:A:LEU:H	1:98:A:VAL:HG13	5	0.14
(1,183)	1:119:A:LEU:H	1:98:A:VAL:HG11	7	0.14
(1,183)	1:119:A:LEU:H	1:98:A:VAL:HG12	7	0.14
(1,183)	1:119:A:LEU:H	1:98:A:VAL:HG13	7	0.14
(1,183)	1:119:A:LEU:H	1:98:A:VAL:HG11	12	0.14
(1,183)	1:119:A:LEU:H	1:98:A:VAL:HG12	12	0.14
(1,183)	1:119:A:LEU:H	1:98:A:VAL:HG13	12	0.14
(1,168)	1:117:A:LEU:HB2	1:97:A:GLY:H	16	0.14
(1,150)	1:113:A:LEU:HD21	1:85:A:VAL:H	15	0.14
(1,150)	1:113:A:LEU:HD22	1:85:A:VAL:H	15	0.14
(1,150)	1:113:A:LEU:HD23	1:85:A:VAL:H	15	0.14
(1,147)	1:111:A:ARG:HD2	1:85:A:VAL:HG11	3	0.14
(1,147)	1:111:A:ARG:HD2	1:85:A:VAL:HG12	3	0.14
(1,147)	1:111:A:ARG:HD2	1:85:A:VAL:HG13	3	0.14
(1,143)	1:108:A:ALA:HB1	1:79:A:GLY:H	13	0.14
(1,143)	1:108:A:ALA:HB2	1:79:A:GLY:H	13	0.14
(1,143)	1:108:A:ALA:HB3	1:79:A:GLY:H	13	0.14
(1,132)	1:100:A:GLY:HA2	1:31:A:LEU:HD11	13	0.14
(1,132)	1:100:A:GLY:HA2	1:31:A:LEU:HD12	13	0.14
(1,132)	1:100:A:GLY:HA2	1:31:A:LEU:HD13	13	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,132)	1:100:A:GLY:HA3	1:31:A:LEU:HD11	13	0.14
(1,132)	1:100:A:GLY:HA3	1:31:A:LEU:HD12	13	0.14
(1,132)	1:100:A:GLY:HA3	1:31:A:LEU:HD13	13	0.14
(1,129)	1:99:A:ASP:HB3	1:79:A:GLY:H	1	0.14
(1,109)	1:94:A:GLN:HE22	1:72:A:LEU:HB3	10	0.14
(1,106)	1:94:A:GLN:HE22	1:70:A:ASP:HA	7	0.14
(1,101)	1:92:A:PHE:H	1:87:A:LEU:HD21	1	0.14
(1,101)	1:92:A:PHE:H	1:87:A:LEU:HD22	1	0.14
(1,101)	1:92:A:PHE:H	1:87:A:LEU:HD23	1	0.14
(1,101)	1:92:A:PHE:H	1:87:A:LEU:HD21	9	0.14
(1,101)	1:92:A:PHE:H	1:87:A:LEU:HD22	9	0.14
(1,101)	1:92:A:PHE:H	1:87:A:LEU:HD23	9	0.14
(1,100)	1:92:A:PHE:HE1	1:68:A:PRO:HB2	2	0.14
(1,100)	1:92:A:PHE:HE1	1:68:A:PRO:HB2	12	0.14
(1,82)	1:27:A:LEU:HD11	1:21:A:SER:HA	12	0.14
(1,82)	1:27:A:LEU:HD12	1:21:A:SER:HA	12	0.14
(1,82)	1:27:A:LEU:HD13	1:21:A:SER:HA	12	0.14
(1,81)	1:27:A:LEU:HD11	1:17:A:ARG:HD2	9	0.14
(1,81)	1:27:A:LEU:HD12	1:17:A:ARG:HD2	9	0.14
(1,81)	1:27:A:LEU:HD13	1:17:A:ARG:HD2	9	0.14
(1,79)	1:232:A:TYR:HA	1:201:A:THR:HA	14	0.14
(1,75)	1:237:A:GLN:H	1:196:A:TRP:HA	15	0.14
(1,74)	1:236:A:LYS:H	1:165:A:LEU:HA	2	0.14
(1,73)	1:235:A:ARG:H	1:199:A:LEU:HA	6	0.14
(1,40)	1:100:A:GLY:H	1:121:A:THR:HA	4	0.14
(1,40)	1:100:A:GLY:H	1:121:A:THR:HA	15	0.14
(1,28)	1:237:A:GLN:H	1:197:A:GLU:H	8	0.14
(1,28)	1:237:A:GLN:H	1:197:A:GLU:H	14	0.14
(5,12)	1:223:A:ASN:N	1:219:A:GLY:O	16	0.13
(5,4)	1:92:A:PHE:N	1:87:A:LEU:O	8	0.13
(5,1)	1:21:A:SER:H	1:18:A:VAL:O	6	0.13
(4,217)	1:231:A:ILE:H	1:202:A:GLN:O	17	0.13
(4,211)	1:225:A:GLY:H	1:210:A:ALA:O	4	0.13
(4,207)	1:209:A:LEU:H	1:205:A:ASP:O	3	0.13
(4,206)	1:200:A:VAL:N	1:233:A:LEU:O	3	0.13
(4,197)	1:195:A:VAL:H	1:190:A:LEU:O	17	0.13
(4,174)	1:182:A:THR:N	1:178:A:PRO:O	4	0.13
(4,174)	1:182:A:THR:N	1:178:A:PRO:O	20	0.13
(4,171)	1:181:A:GLU:H	1:178:A:PRO:O	11	0.13
(4,171)	1:181:A:GLU:H	1:178:A:PRO:O	20	0.13
(4,165)	1:169:A:THR:H	1:139:A:ILE:O	3	0.13
(4,157)	1:165:A:LEU:H	1:135:A:ASP:O	7	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,151)	1:160:A:THR:H	1:156:A:LEU:O	1	0.13
(4,151)	1:160:A:THR:H	1:156:A:LEU:O	5	0.13
(4,151)	1:160:A:THR:H	1:156:A:LEU:O	18	0.13
(4,143)	1:151:A:SER:H	1:149:A:PRO:O	13	0.13
(4,137)	1:140:A:VAL:H	1:78:A:CYS:O	2	0.13
(4,137)	1:140:A:VAL:H	1:78:A:CYS:O	4	0.13
(4,137)	1:140:A:VAL:H	1:78:A:CYS:O	20	0.13
(4,117)	1:118:A:SER:H	1:97:A:GLY:O	20	0.13
(4,113)	1:114:A:TYR:H	1:108:A:ALA:O	13	0.13
(4,88)	1:93:A:LEU:N	1:68:A:PRO:O	11	0.13
(4,82)	1:89:A:ALA:N	1:85:A:VAL:O	6	0.13
(4,45)	1:61:A:SER:H	1:57:A:VAL:O	9	0.13
(4,41)	1:58:A:ASP:H	1:54:A:ARG:O	11	0.13
(4,40)	1:57:A:VAL:N	1:53:A:PRO:O	19	0.13
(4,19)	1:29:A:CYS:H	1:25:A:THR:O	11	0.13
(4,19)	1:29:A:CYS:H	1:25:A:THR:O	19	0.13
(4,11)	1:14:A:VAL:H	1:10:A:ARG:O	2	0.13
(4,9)	1:11:A:LEU:H	1:146:A:GLY:O	3	0.13
(2,277)	1:57:A:VAL:HG21	1:56:A:ALA:H	7	0.13
(2,277)	1:57:A:VAL:HG22	1:56:A:ALA:H	7	0.13
(2,277)	1:57:A:VAL:HG23	1:56:A:ALA:H	7	0.13
(2,277)	1:57:A:VAL:HG21	1:56:A:ALA:H	19	0.13
(2,277)	1:57:A:VAL:HG22	1:56:A:ALA:H	19	0.13
(2,277)	1:57:A:VAL:HG23	1:56:A:ALA:H	19	0.13
(2,174)	1:60:A:LEU:HG	1:57:A:VAL:HA	5	0.13
(2,161)	1:144:A:SER:H	1:142:A:ALA:HB1	7	0.13
(2,161)	1:144:A:SER:H	1:142:A:ALA:HB2	7	0.13
(2,161)	1:144:A:SER:H	1:142:A:ALA:HB3	7	0.13
(2,160)	1:114:A:TYR:H	1:111:A:ARG:HB2	3	0.13
(2,66)	1:122:A:LEU:HD21	1:16:A:ALA:H	1	0.13
(2,66)	1:122:A:LEU:HD22	1:16:A:ALA:H	1	0.13
(2,66)	1:122:A:LEU:HD23	1:16:A:ALA:H	1	0.13
(2,66)	1:122:A:LEU:HD21	1:16:A:ALA:H	7	0.13
(2,66)	1:122:A:LEU:HD22	1:16:A:ALA:H	7	0.13
(2,66)	1:122:A:LEU:HD23	1:16:A:ALA:H	7	0.13
(2,65)	1:121:A:THR:H	1:98:A:VAL:HB	17	0.13
(2,46)	1:109:A:ARG:H	1:99:A:ASP:HB2	2	0.13
(2,46)	1:109:A:ARG:H	1:99:A:ASP:HB2	11	0.13
(2,45)	1:108:A:ALA:HB1	1:83:A:VAL:H	1	0.13
(2,45)	1:108:A:ALA:HB2	1:83:A:VAL:H	1	0.13
(2,45)	1:108:A:ALA:HB3	1:83:A:VAL:H	1	0.13
(2,45)	1:108:A:ALA:HB1	1:83:A:VAL:H	5	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,45)	1:108:A:ALA:HB2	1:83:A:VAL:H	5	0.13
(2,45)	1:108:A:ALA:HB3	1:83:A:VAL:H	5	0.13
(2,45)	1:108:A:ALA:HB1	1:83:A:VAL:H	16	0.13
(2,45)	1:108:A:ALA:HB2	1:83:A:VAL:H	16	0.13
(2,45)	1:108:A:ALA:HB3	1:83:A:VAL:H	16	0.13
(2,45)	1:108:A:ALA:HB1	1:83:A:VAL:H	19	0.13
(2,45)	1:108:A:ALA:HB2	1:83:A:VAL:H	19	0.13
(2,45)	1:108:A:ALA:HB3	1:83:A:VAL:H	19	0.13
(2,42)	1:99:A:ASP:HB2	1:79:A:GLY:H	11	0.13
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD11	5	0.13
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD12	5	0.13
(2,38)	1:96:A:GLN:HG2	1:74:A:LEU:HD13	5	0.13
(2,37)	1:96:A:GLN:HG3	1:74:A:LEU:HD21	17	0.13
(2,37)	1:96:A:GLN:HG3	1:74:A:LEU:HD22	17	0.13
(2,37)	1:96:A:GLN:HG3	1:74:A:LEU:HD23	17	0.13
(2,11)	1:30:A:LYS:H	1:17:A:ARG:HD3	1	0.13
(1,2097)	2:300:A:SAH:H1'	1:100:A:GLY:H	18	0.13
(1,2092)	2:300:A:SAH:HG1	1:38:A:ALA:HB1	3	0.13
(1,2092)	2:300:A:SAH:HG1	1:38:A:ALA:HB2	3	0.13
(1,2092)	2:300:A:SAH:HG1	1:38:A:ALA:HB3	3	0.13
(1,2092)	2:300:A:SAH:HG1	1:38:A:ALA:HB1	13	0.13
(1,2092)	2:300:A:SAH:HG1	1:38:A:ALA:HB2	13	0.13
(1,2092)	2:300:A:SAH:HG1	1:38:A:ALA:HB3	13	0.13
(1,2027)	1:218:A:LEU:H	1:218:A:LEU:HD21	7	0.13
(1,2027)	1:218:A:LEU:H	1:218:A:LEU:HD22	7	0.13
(1,2027)	1:218:A:LEU:H	1:218:A:LEU:HD23	7	0.13
(1,2002)	1:195:A:VAL:H	1:195:A:VAL:HG11	4	0.13
(1,2002)	1:195:A:VAL:H	1:195:A:VAL:HG12	4	0.13
(1,2002)	1:195:A:VAL:H	1:195:A:VAL:HG13	4	0.13
(1,2002)	1:195:A:VAL:H	1:195:A:VAL:HG11	5	0.13
(1,2002)	1:195:A:VAL:H	1:195:A:VAL:HG12	5	0.13
(1,2002)	1:195:A:VAL:H	1:195:A:VAL:HG13	5	0.13
(1,2002)	1:195:A:VAL:H	1:195:A:VAL:HG11	8	0.13
(1,2002)	1:195:A:VAL:H	1:195:A:VAL:HG12	8	0.13
(1,2002)	1:195:A:VAL:H	1:195:A:VAL:HG13	8	0.13
(1,1902)	1:156:A:LEU:H	1:156:A:LEU:HD11	8	0.13
(1,1902)	1:156:A:LEU:H	1:156:A:LEU:HD12	8	0.13
(1,1902)	1:156:A:LEU:H	1:156:A:LEU:HD13	8	0.13
(1,1819)	1:113:A:LEU:HD21	1:113:A:LEU:H	1	0.13
(1,1819)	1:113:A:LEU:HD22	1:113:A:LEU:H	1	0.13
(1,1819)	1:113:A:LEU:HD23	1:113:A:LEU:H	1	0.13
(1,1765)	1:92:A:PHE:H	1:92:A:PHE:HE1	4	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1753)	1:86:A:GLU:H	1:86:A:GLU:HG3	19	0.13
(1,1662)	1:33:A:PHE:H	1:33:A:PHE:HD1	14	0.13
(1,1645)	1:17:A:ARG:HD2	1:17:A:ARG:HA	5	0.13
(1,1471)	1:205:A:ASP:HB3	1:205:A:ASP:H	11	0.13
(1,1471)	1:205:A:ASP:HB3	1:205:A:ASP:H	15	0.13
(1,1441)	1:177:A:LEU:HB3	1:177:A:LEU:H	2	0.13
(1,1441)	1:177:A:LEU:HB3	1:177:A:LEU:H	5	0.13
(1,1441)	1:177:A:LEU:HB3	1:177:A:LEU:H	9	0.13
(1,1404)	1:124:A:GLN:HB3	1:124:A:GLN:H	11	0.13
(1,1387)	1:111:A:ARG:HB3	1:111:A:ARG:H	8	0.13
(1,1378)	1:99:A:ASP:HB2	1:99:A:ASP:H	3	0.13
(1,1370)	1:88:A:GLN:HB3	1:88:A:GLN:H	3	0.13
(1,1370)	1:88:A:GLN:HB3	1:88:A:GLN:H	6	0.13
(1,1362)	1:83:A:VAL:HB	1:83:A:VAL:H	3	0.13
(1,1362)	1:83:A:VAL:HB	1:83:A:VAL:H	13	0.13
(1,1357)	1:75:A:ASP:HB3	1:75:A:ASP:H	7	0.13
(1,1357)	1:75:A:ASP:HB3	1:75:A:ASP:H	19	0.13
(1,1091)	1:193:A:ALA:H	1:192:A:ARG:HD3	11	0.13
(1,1091)	1:193:A:ALA:H	1:192:A:ARG:HD3	19	0.13
(1,1066)	1:158:A:ARG:H	1:157:A:LEU:HD21	2	0.13
(1,1066)	1:158:A:ARG:H	1:157:A:LEU:HD22	2	0.13
(1,1066)	1:158:A:ARG:H	1:157:A:LEU:HD23	2	0.13
(1,1066)	1:158:A:ARG:H	1:157:A:LEU:HD21	11	0.13
(1,1066)	1:158:A:ARG:H	1:157:A:LEU:HD22	11	0.13
(1,1066)	1:158:A:ARG:H	1:157:A:LEU:HD23	11	0.13
(1,1055)	1:140:A:VAL:HA	1:139:A:ILE:HG21	9	0.13
(1,1055)	1:140:A:VAL:HA	1:139:A:ILE:HG22	9	0.13
(1,1055)	1:140:A:VAL:HA	1:139:A:ILE:HG23	9	0.13
(1,1053)	1:139:A:ILE:H	1:138:A:ILE:HG12	8	0.13
(1,1029)	1:114:A:TYR:H	1:113:A:LEU:HD21	6	0.13
(1,1029)	1:114:A:TYR:H	1:113:A:LEU:HD22	6	0.13
(1,1029)	1:114:A:TYR:H	1:113:A:LEU:HD23	6	0.13
(1,1018)	1:94:A:GLN:HG2	1:93:A:LEU:H	7	0.13
(1,1018)	1:94:A:GLN:HG2	1:93:A:LEU:H	15	0.13
(1,1018)	1:94:A:GLN:HG2	1:93:A:LEU:H	17	0.13
(1,1015)	1:91:A:GLY:H	1:90:A:ARG:HD3	10	0.13
(1,1015)	1:91:A:GLY:H	1:90:A:ARG:HD3	11	0.13
(1,1015)	1:91:A:GLY:H	1:90:A:ARG:HD3	16	0.13
(1,1015)	1:91:A:GLY:H	1:90:A:ARG:HD3	19	0.13
(1,984)	1:54:A:ARG:H	1:53:A:PRO:HD3	8	0.13
(1,979)	1:49:A:LYS:H	1:48:A:LEU:HD11	1	0.13
(1,979)	1:49:A:LYS:H	1:48:A:LEU:HD12	1	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,979)	1:49:A:LYS:H	1:48:A:LEU:HD13	1	0.13
(1,952)	1:228:A:SER:HB3	1:229:A:GLY:H	1	0.13
(1,947)	1:223:A:ASN:HB2	1:224:A:ASP:H	8	0.13
(1,945)	1:222:A:ALA:HB1	1:223:A:ASN:H	14	0.13
(1,945)	1:222:A:ALA:HB2	1:223:A:ASN:H	14	0.13
(1,945)	1:222:A:ALA:HB3	1:223:A:ASN:H	14	0.13
(1,884)	1:118:A:SER:HB3	1:119:A:LEU:H	14	0.13
(1,842)	1:54:A:ARG:HB2	1:55:A:LEU:H	20	0.13
(1,725)	1:91:A:GLY:HA2	1:92:A:PHE:H	10	0.13
(1,647)	1:161:A:LYS:H	1:160:A:THR:H	17	0.13
(1,552)	1:196:A:TRP:HD1	1:192:A:ARG:H	8	0.13
(1,545)	1:172:A:THR:H	1:170:A:THR:HG21	20	0.13
(1,545)	1:172:A:THR:H	1:170:A:THR:HG22	20	0.13
(1,545)	1:172:A:THR:H	1:170:A:THR:HG23	20	0.13
(1,511)	1:73:A:ILE:HD11	1:71:A:ALA:HB1	12	0.13
(1,511)	1:73:A:ILE:HD11	1:71:A:ALA:HB2	12	0.13
(1,511)	1:73:A:ILE:HD11	1:71:A:ALA:HB3	12	0.13
(1,511)	1:73:A:ILE:HD12	1:71:A:ALA:HB1	12	0.13
(1,511)	1:73:A:ILE:HD12	1:71:A:ALA:HB2	12	0.13
(1,511)	1:73:A:ILE:HD12	1:71:A:ALA:HB3	12	0.13
(1,511)	1:73:A:ILE:HD13	1:71:A:ALA:HB1	12	0.13
(1,511)	1:73:A:ILE:HD13	1:71:A:ALA:HB2	12	0.13
(1,511)	1:73:A:ILE:HD13	1:71:A:ALA:HB3	12	0.13
(1,511)	1:73:A:ILE:HD11	1:71:A:ALA:HB1	13	0.13
(1,511)	1:73:A:ILE:HD11	1:71:A:ALA:HB2	13	0.13
(1,511)	1:73:A:ILE:HD11	1:71:A:ALA:HB3	13	0.13
(1,511)	1:73:A:ILE:HD12	1:71:A:ALA:HB1	13	0.13
(1,511)	1:73:A:ILE:HD12	1:71:A:ALA:HB2	13	0.13
(1,511)	1:73:A:ILE:HD12	1:71:A:ALA:HB3	13	0.13
(1,511)	1:73:A:ILE:HD13	1:71:A:ALA:HB1	13	0.13
(1,511)	1:73:A:ILE:HD13	1:71:A:ALA:HB2	13	0.13
(1,511)	1:73:A:ILE:HD13	1:71:A:ALA:HB3	13	0.13
(1,507)	1:68:A:PRO:HA	1:64:A:PHE:HZ	6	0.13
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG11	17	0.13
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG12	17	0.13
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG13	17	0.13
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG11	18	0.13
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG12	18	0.13
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG13	18	0.13
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG11	20	0.13
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG12	20	0.13
(1,503)	1:61:A:SER:H	1:57:A:VAL:HG13	20	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,452)	1:28:A:ALA:H	1:26:A:ASP:HB2	9	0.13
(1,452)	1:28:A:ALA:H	1:26:A:ASP:HB3	9	0.13
(1,451)	1:14:A:VAL:H	1:17:A:ARG:HB3	5	0.13
(1,451)	1:14:A:VAL:H	1:17:A:ARG:HB3	14	0.13
(1,403)	1:176:A:ASN:HA	1:180:A:LYS:H	15	0.13
(1,337)	1:234:A:TYR:HE1	1:198:A:CYS:H	12	0.13
(1,337)	1:234:A:TYR:HE2	1:198:A:CYS:H	12	0.13
(1,336)	1:234:A:TYR:HE1	1:191:A:GLU:H	8	0.13
(1,336)	1:234:A:TYR:HE2	1:191:A:GLU:H	8	0.13
(1,333)	1:233:A:LEU:HD21	1:202:A:GLN:HE21	2	0.13
(1,333)	1:233:A:LEU:HD22	1:202:A:GLN:HE21	2	0.13
(1,333)	1:233:A:LEU:HD23	1:202:A:GLN:HE21	2	0.13
(1,333)	1:233:A:LEU:HD21	1:202:A:GLN:HE21	20	0.13
(1,333)	1:233:A:LEU:HD22	1:202:A:GLN:HE21	20	0.13
(1,333)	1:233:A:LEU:HD23	1:202:A:GLN:HE21	20	0.13
(1,328)	1:232:A:TYR:HE1	1:187:A:LEU:HD11	18	0.13
(1,328)	1:232:A:TYR:HE1	1:187:A:LEU:HD12	18	0.13
(1,328)	1:232:A:TYR:HE1	1:187:A:LEU:HD13	18	0.13
(1,328)	1:232:A:TYR:HE2	1:187:A:LEU:HD11	18	0.13
(1,328)	1:232:A:TYR:HE2	1:187:A:LEU:HD12	18	0.13
(1,328)	1:232:A:TYR:HE2	1:187:A:LEU:HD13	18	0.13
(1,328)	1:232:A:TYR:HE1	1:187:A:LEU:HD11	19	0.13
(1,328)	1:232:A:TYR:HE1	1:187:A:LEU:HD12	19	0.13
(1,328)	1:232:A:TYR:HE1	1:187:A:LEU:HD13	19	0.13
(1,328)	1:232:A:TYR:HE2	1:187:A:LEU:HD11	19	0.13
(1,328)	1:232:A:TYR:HE2	1:187:A:LEU:HD12	19	0.13
(1,328)	1:232:A:TYR:HE2	1:187:A:LEU:HD13	19	0.13
(1,315)	1:230:A:ILE:H	1:172:A:THR:HG21	7	0.13
(1,315)	1:230:A:ILE:H	1:172:A:THR:HG22	7	0.13
(1,315)	1:230:A:ILE:H	1:172:A:THR:HG23	7	0.13
(1,301)	1:210:A:ALA:HB1	1:177:A:LEU:HB2	14	0.13
(1,301)	1:210:A:ALA:HB1	1:177:A:LEU:HB3	14	0.13
(1,301)	1:210:A:ALA:HB2	1:177:A:LEU:HB2	14	0.13
(1,301)	1:210:A:ALA:HB2	1:177:A:LEU:HB3	14	0.13
(1,301)	1:210:A:ALA:HB3	1:177:A:LEU:HB2	14	0.13
(1,301)	1:210:A:ALA:HB3	1:177:A:LEU:HB3	14	0.13
(1,260)	1:167:A:CYS:HB3	1:138:A:ILE:HA	3	0.13
(1,250)	1:159:A:VAL:HG21	1:133:A:THR:HB	11	0.13
(1,250)	1:159:A:VAL:HG22	1:133:A:THR:HB	11	0.13
(1,250)	1:159:A:VAL:HG23	1:133:A:THR:HB	11	0.13
(1,241)	1:153:A:ILE:HD11	1:148:A:VAL:HG11	17	0.13
(1,241)	1:153:A:ILE:HD11	1:148:A:VAL:HG12	17	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,241)	1:153:A:ILE:HD11	1:148:A:VAL:HG13	17	0.13
(1,241)	1:153:A:ILE:HD12	1:148:A:VAL:HG11	17	0.13
(1,241)	1:153:A:ILE:HD12	1:148:A:VAL:HG12	17	0.13
(1,241)	1:153:A:ILE:HD12	1:148:A:VAL:HG13	17	0.13
(1,241)	1:153:A:ILE:HD13	1:148:A:VAL:HG11	17	0.13
(1,241)	1:153:A:ILE:HD13	1:148:A:VAL:HG12	17	0.13
(1,241)	1:153:A:ILE:HD13	1:148:A:VAL:HG13	17	0.13
(1,237)	1:149:A:PRO:HB3	1:123:A:GLY:HA3	4	0.13
(1,231)	1:138:A:ILE:HG21	1:75:A:ASP:HB2	8	0.13
(1,231)	1:138:A:ILE:HG22	1:75:A:ASP:HB2	8	0.13
(1,231)	1:138:A:ILE:HG23	1:75:A:ASP:HB2	8	0.13
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD11	14	0.13
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD12	14	0.13
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD13	14	0.13
(1,203)	1:134:A:PHE:HA	1:72:A:LEU:HB2	1	0.13
(1,203)	1:134:A:PHE:HA	1:72:A:LEU:HB2	6	0.13
(1,203)	1:134:A:PHE:HA	1:72:A:LEU:HB2	14	0.13
(1,203)	1:134:A:PHE:HA	1:72:A:LEU:HB2	17	0.13
(1,198)	1:129:A:ASP:H	1:74:A:LEU:HD11	9	0.13
(1,198)	1:129:A:ASP:H	1:74:A:LEU:HD12	9	0.13
(1,198)	1:129:A:ASP:H	1:74:A:LEU:HD13	9	0.13
(1,189)	1:120:A:CYS:H	1:98:A:VAL:HG11	1	0.13
(1,189)	1:120:A:CYS:H	1:98:A:VAL:HG12	1	0.13
(1,189)	1:120:A:CYS:H	1:98:A:VAL:HG13	1	0.13
(1,189)	1:120:A:CYS:H	1:98:A:VAL:HG11	6	0.13
(1,189)	1:120:A:CYS:H	1:98:A:VAL:HG12	6	0.13
(1,189)	1:120:A:CYS:H	1:98:A:VAL:HG13	6	0.13
(1,183)	1:119:A:LEU:H	1:98:A:VAL:HG11	18	0.13
(1,183)	1:119:A:LEU:H	1:98:A:VAL:HG12	18	0.13
(1,183)	1:119:A:LEU:H	1:98:A:VAL:HG13	18	0.13
(1,168)	1:117:A:LEU:HB2	1:97:A:GLY:H	4	0.13
(1,161)	1:115:A:HIS:HB2	1:96:A:GLN:HG3	3	0.13
(1,154)	1:114:A:TYR:HE1	1:97:A:GLY:H	15	0.13
(1,154)	1:114:A:TYR:HE2	1:97:A:GLY:H	15	0.13
(1,154)	1:114:A:TYR:HE1	1:97:A:GLY:H	16	0.13
(1,154)	1:114:A:TYR:HE2	1:97:A:GLY:H	16	0.13
(1,147)	1:111:A:ARG:HD2	1:85:A:VAL:HG11	7	0.13
(1,147)	1:111:A:ARG:HD2	1:85:A:VAL:HG12	7	0.13
(1,147)	1:111:A:ARG:HD2	1:85:A:VAL:HG13	7	0.13
(1,133)	1:100:A:GLY:HA2	1:31:A:LEU:HD21	5	0.13
(1,133)	1:100:A:GLY:HA2	1:31:A:LEU:HD22	5	0.13
(1,133)	1:100:A:GLY:HA2	1:31:A:LEU:HD23	5	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,133)	1:100:A:GLY:HA3	1:31:A:LEU:HD21	5	0.13
(1,133)	1:100:A:GLY:HA3	1:31:A:LEU:HD22	5	0.13
(1,133)	1:100:A:GLY:HA3	1:31:A:LEU:HD23	5	0.13
(1,132)	1:100:A:GLY:HA2	1:31:A:LEU:HD11	12	0.13
(1,132)	1:100:A:GLY:HA2	1:31:A:LEU:HD12	12	0.13
(1,132)	1:100:A:GLY:HA2	1:31:A:LEU:HD13	12	0.13
(1,132)	1:100:A:GLY:HA3	1:31:A:LEU:HD11	12	0.13
(1,132)	1:100:A:GLY:HA3	1:31:A:LEU:HD12	12	0.13
(1,132)	1:100:A:GLY:HA3	1:31:A:LEU:HD13	12	0.13
(1,132)	1:100:A:GLY:HA2	1:31:A:LEU:HD11	14	0.13
(1,132)	1:100:A:GLY:HA2	1:31:A:LEU:HD12	14	0.13
(1,132)	1:100:A:GLY:HA2	1:31:A:LEU:HD13	14	0.13
(1,132)	1:100:A:GLY:HA3	1:31:A:LEU:HD11	14	0.13
(1,132)	1:100:A:GLY:HA3	1:31:A:LEU:HD12	14	0.13
(1,132)	1:100:A:GLY:HA3	1:31:A:LEU:HD13	14	0.13
(1,132)	1:100:A:GLY:HA2	1:31:A:LEU:HD11	16	0.13
(1,132)	1:100:A:GLY:HA2	1:31:A:LEU:HD12	16	0.13
(1,132)	1:100:A:GLY:HA2	1:31:A:LEU:HD13	16	0.13
(1,132)	1:100:A:GLY:HA3	1:31:A:LEU:HD11	16	0.13
(1,132)	1:100:A:GLY:HA3	1:31:A:LEU:HD12	16	0.13
(1,132)	1:100:A:GLY:HA3	1:31:A:LEU:HD13	16	0.13
(1,129)	1:99:A:ASP:HB3	1:79:A:GLY:H	13	0.13
(1,82)	1:27:A:LEU:HD11	1:21:A:SER:HA	11	0.13
(1,82)	1:27:A:LEU:HD12	1:21:A:SER:HA	11	0.13
(1,82)	1:27:A:LEU:HD13	1:21:A:SER:HA	11	0.13
(1,72)	1:235:A:ARG:H	1:198:A:CYS:HA	10	0.13
(1,28)	1:237:A:GLN:H	1:197:A:GLU:H	4	0.13
(1,18)	1:229:A:GLY:H	1:170:A:THR:H	6	0.13
(5,15)	1:101:A:SER:H	2:300:A:SAH:O2'	12	0.12
(5,4)	1:92:A:PHE:N	1:87:A:LEU:O	2	0.12
(4,219)	1:232:A:TYR:H	1:168:A:LEU:O	15	0.12
(4,209)	1:219:A:GLY:H	1:216:A:THR:O	12	0.12
(4,207)	1:209:A:LEU:H	1:205:A:ASP:O	1	0.12
(4,206)	1:200:A:VAL:N	1:233:A:LEU:O	2	0.12
(4,205)	1:200:A:VAL:H	1:233:A:LEU:O	8	0.12
(4,203)	1:199:A:LEU:H	1:233:A:LEU:O	15	0.12
(4,174)	1:182:A:THR:N	1:178:A:PRO:O	3	0.12
(4,173)	1:182:A:THR:H	1:178:A:PRO:O	18	0.12
(4,168)	1:170:A:THR:N	1:230:A:ILE:O	3	0.12
(4,165)	1:169:A:THR:H	1:139:A:ILE:O	11	0.12
(4,163)	1:168:A:LEU:H	1:232:A:TYR:O	15	0.12
(4,157)	1:165:A:LEU:H	1:135:A:ASP:O	17	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,151)	1:160:A:THR:H	1:156:A:LEU:O	11	0.12
(4,146)	1:152:A:ALA:N	1:149:A:PRO:O	2	0.12
(4,146)	1:152:A:ALA:N	1:149:A:PRO:O	4	0.12
(4,146)	1:152:A:ALA:N	1:149:A:PRO:O	8	0.12
(4,138)	1:140:A:VAL:N	1:78:A:CYS:O	9	0.12
(4,137)	1:140:A:VAL:H	1:78:A:CYS:O	3	0.12
(4,129)	1:136:A:ALA:H	1:72:A:LEU:O	3	0.12
(4,117)	1:118:A:SER:H	1:97:A:GLY:O	5	0.12
(4,117)	1:118:A:SER:H	1:97:A:GLY:O	18	0.12
(4,115)	1:116:A:HIS:H	1:95:A:VAL:O	17	0.12
(4,63)	1:77:A:ALA:H	1:98:A:VAL:O	5	0.12
(4,56)	1:72:A:LEU:N	1:135:A:ASP:OD1	16	0.12
(4,37)	1:48:A:LEU:H	1:44:A:ASP:O	13	0.12
(4,33)	1:45:A:VAL:H	1:41:A:TYR:O	12	0.12
(4,31)	1:43:A:GLN:H	1:39:A:PRO:O	6	0.12
(4,10)	1:11:A:LEU:N	1:146:A:GLY:O	2	0.12
(4,10)	1:11:A:LEU:N	1:146:A:GLY:O	8	0.12
(4,9)	1:11:A:LEU:H	1:146:A:GLY:O	13	0.12
(4,9)	1:11:A:LEU:H	1:146:A:GLY:O	15	0.12
(4,7)	1:9:A:GLY:H	1:5:A:GLN:O	16	0.12
(4,2)	1:6:A:GLU:N	1:2:A:ALA:O	20	0.12
(2,277)	1:57:A:VAL:HG21	1:56:A:ALA:H	16	0.12
(2,277)	1:57:A:VAL:HG22	1:56:A:ALA:H	16	0.12
(2,277)	1:57:A:VAL:HG23	1:56:A:ALA:H	16	0.12
(2,277)	1:57:A:VAL:HG21	1:56:A:ALA:H	18	0.12
(2,277)	1:57:A:VAL:HG22	1:56:A:ALA:H	18	0.12
(2,277)	1:57:A:VAL:HG23	1:56:A:ALA:H	18	0.12
(2,174)	1:60:A:LEU:HG	1:57:A:VAL:HA	13	0.12
(2,174)	1:60:A:LEU:HG	1:57:A:VAL:HA	15	0.12
(2,168)	1:33:A:PHE:H	1:31:A:LEU:HD21	5	0.12
(2,168)	1:33:A:PHE:H	1:31:A:LEU:HD22	5	0.12
(2,168)	1:33:A:PHE:H	1:31:A:LEU:HD23	5	0.12
(2,158)	1:111:A:ARG:H	1:113:A:LEU:HB3	1	0.12
(2,45)	1:108:A:ALA:HB1	1:83:A:VAL:H	15	0.12
(2,45)	1:108:A:ALA:HB2	1:83:A:VAL:H	15	0.12
(2,45)	1:108:A:ALA:HB3	1:83:A:VAL:H	15	0.12
(2,45)	1:108:A:ALA:HB1	1:83:A:VAL:H	18	0.12
(2,45)	1:108:A:ALA:HB2	1:83:A:VAL:H	18	0.12
(2,45)	1:108:A:ALA:HB3	1:83:A:VAL:H	18	0.12
(2,11)	1:30:A:LYS:H	1:17:A:ARG:HD3	11	0.12
(2,11)	1:30:A:LYS:H	1:17:A:ARG:HD3	18	0.12
(1,2097)	2:300:A:SAH:HI'	1:100:A:GLY:H	7	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2090)	2:300:A:SAH:HG1	1:35:A:ASP:H	15	0.12
(1,2090)	2:300:A:SAH:HG2	1:35:A:ASP:H	15	0.12
(1,2089)	2:300:A:SAH:HG1	1:35:A:ASP:H	15	0.12
(1,2089)	2:300:A:SAH:HG2	1:35:A:ASP:H	15	0.12
(1,2067)	1:235:A:ARG:HB2	1:235:A:ARG:HD2	9	0.12
(1,2020)	1:202:A:GLN:HG2	1:202:A:GLN:HA	3	0.12
(1,2020)	1:202:A:GLN:HG3	1:202:A:GLN:HA	3	0.12
(1,2013)	1:200:A:VAL:H	1:200:A:VAL:HG21	13	0.12
(1,2013)	1:200:A:VAL:H	1:200:A:VAL:HG22	13	0.12
(1,2013)	1:200:A:VAL:H	1:200:A:VAL:HG23	13	0.12
(1,2002)	1:195:A:VAL:H	1:195:A:VAL:HG11	12	0.12
(1,2002)	1:195:A:VAL:H	1:195:A:VAL:HG12	12	0.12
(1,2002)	1:195:A:VAL:H	1:195:A:VAL:HG13	12	0.12
(1,1975)	1:187:A:LEU:HD21	1:187:A:LEU:H	3	0.12
(1,1975)	1:187:A:LEU:HD22	1:187:A:LEU:H	3	0.12
(1,1975)	1:187:A:LEU:HD23	1:187:A:LEU:H	3	0.12
(1,1902)	1:156:A:LEU:H	1:156:A:LEU:HD11	7	0.12
(1,1902)	1:156:A:LEU:H	1:156:A:LEU:HD12	7	0.12
(1,1902)	1:156:A:LEU:H	1:156:A:LEU:HD13	7	0.12
(1,1902)	1:156:A:LEU:H	1:156:A:LEU:HD11	15	0.12
(1,1902)	1:156:A:LEU:H	1:156:A:LEU:HD12	15	0.12
(1,1902)	1:156:A:LEU:H	1:156:A:LEU:HD13	15	0.12
(1,1768)	1:93:A:LEU:HD11	1:93:A:LEU:H	15	0.12
(1,1768)	1:93:A:LEU:HD12	1:93:A:LEU:H	15	0.12
(1,1768)	1:93:A:LEU:HD13	1:93:A:LEU:H	15	0.12
(1,1753)	1:86:A:GLU:H	1:86:A:GLU:HG3	14	0.12
(1,1696)	1:65:A:ARG:HD2	1:65:A:ARG:H	17	0.12
(1,1667)	1:40:A:GLU:HA	1:40:A:GLU:HG2	5	0.12
(1,1667)	1:40:A:GLU:HA	1:40:A:GLU:HG2	14	0.12
(1,1667)	1:40:A:GLU:HA	1:40:A:GLU:HG2	15	0.12
(1,1662)	1:33:A:PHE:H	1:33:A:PHE:HD1	2	0.12
(1,1662)	1:33:A:PHE:H	1:33:A:PHE:HD1	3	0.12
(1,1662)	1:33:A:PHE:H	1:33:A:PHE:HD1	4	0.12
(1,1662)	1:33:A:PHE:H	1:33:A:PHE:HD1	7	0.12
(1,1645)	1:17:A:ARG:HD2	1:17:A:ARG:HA	1	0.12
(1,1645)	1:17:A:ARG:HD2	1:17:A:ARG:HA	12	0.12
(1,1476)	1:224:A:ASP:HB2	1:224:A:ASP:H	19	0.12
(1,1471)	1:205:A:ASP:HB3	1:205:A:ASP:H	20	0.12
(1,1441)	1:177:A:LEU:HB3	1:177:A:LEU:H	1	0.12
(1,1441)	1:177:A:LEU:HB3	1:177:A:LEU:H	8	0.12
(1,1441)	1:177:A:LEU:HB3	1:177:A:LEU:H	16	0.12
(1,1404)	1:124:A:GLN:HB3	1:124:A:GLN:H	3	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1404)	1:124:A:GLN:HB3	1:124:A:GLN:H	5	0.12
(1,1402)	1:121:A:THR:HB	1:121:A:THR:H	1	0.12
(1,1402)	1:121:A:THR:HB	1:121:A:THR:H	7	0.12
(1,1402)	1:121:A:THR:HB	1:121:A:THR:H	9	0.12
(1,1370)	1:88:A:GLN:HB3	1:88:A:GLN:H	9	0.12
(1,1091)	1:193:A:ALA:H	1:192:A:ARG:HD3	7	0.12
(1,1074)	1:169:A:THR:HG21	1:168:A:LEU:HA	7	0.12
(1,1074)	1:169:A:THR:HG22	1:168:A:LEU:HA	7	0.12
(1,1074)	1:169:A:THR:HG23	1:168:A:LEU:HA	7	0.12
(1,1066)	1:158:A:ARG:H	1:157:A:LEU:HD21	8	0.12
(1,1066)	1:158:A:ARG:H	1:157:A:LEU:HD22	8	0.12
(1,1066)	1:158:A:ARG:H	1:157:A:LEU:HD23	8	0.12
(1,1066)	1:158:A:ARG:H	1:157:A:LEU:HD21	17	0.12
(1,1066)	1:158:A:ARG:H	1:157:A:LEU:HD22	17	0.12
(1,1066)	1:158:A:ARG:H	1:157:A:LEU:HD23	17	0.12
(1,1064)	1:154:A:PRO:HD2	1:153:A:ILE:HG13	20	0.12
(1,1053)	1:139:A:ILE:H	1:138:A:ILE:HG12	5	0.12
(1,1046)	1:132:A:GLY:H	1:131:A:GLU:HG3	13	0.12
(1,1036)	1:122:A:LEU:HD11	1:121:A:THR:H	17	0.12
(1,1036)	1:122:A:LEU:HD12	1:121:A:THR:H	17	0.12
(1,1036)	1:122:A:LEU:HD13	1:121:A:THR:H	17	0.12
(1,1028)	1:114:A:TYR:H	1:113:A:LEU:HG	19	0.12
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG21	2	0.12
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG22	2	0.12
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG23	2	0.12
(1,984)	1:54:A:ARG:H	1:53:A:PRO:HD3	9	0.12
(1,984)	1:54:A:ARG:H	1:53:A:PRO:HD3	20	0.12
(1,963)	1:238:A:GLU:HB2	1:239:A:THR:H	9	0.12
(1,963)	1:238:A:GLU:HB2	1:239:A:THR:H	16	0.12
(1,952)	1:228:A:SER:HB3	1:229:A:GLY:H	5	0.12
(1,952)	1:228:A:SER:HB3	1:229:A:GLY:H	10	0.12
(1,886)	1:122:A:LEU:HB2	1:123:A:GLY:H	17	0.12
(1,884)	1:118:A:SER:HB3	1:119:A:LEU:H	20	0.12
(1,883)	1:117:A:LEU:HB2	1:118:A:SER:H	2	0.12
(1,855)	1:70:A:ASP:HB3	1:69:A:HIS:H	18	0.12
(1,839)	1:44:A:ASP:HB3	1:45:A:VAL:H	13	0.12
(1,820)	1:7:A:GLU:HB2	1:8:A:ALA:H	16	0.12
(1,688)	1:5:A:GLN:HA	1:6:A:GLU:H	15	0.12
(1,647)	1:161:A:LYS:H	1:160:A:THR:H	2	0.12
(1,647)	1:161:A:LYS:H	1:160:A:THR:H	10	0.12
(1,647)	1:161:A:LYS:H	1:160:A:THR:H	13	0.12
(1,544)	1:172:A:THR:HG21	1:170:A:THR:H	20	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,544)	1:172:A:THR:HG22	1:170:A:THR:H	20	0.12
(1,544)	1:172:A:THR:HG23	1:170:A:THR:H	20	0.12
(1,540)	1:159:A:VAL:HG11	1:156:A:LEU:HA	12	0.12
(1,540)	1:159:A:VAL:HG12	1:156:A:LEU:HA	12	0.12
(1,540)	1:159:A:VAL:HG13	1:156:A:LEU:HA	12	0.12
(1,510)	1:73:A:ILE:HD11	1:71:A:ALA:H	10	0.12
(1,510)	1:73:A:ILE:HD12	1:71:A:ALA:H	10	0.12
(1,510)	1:73:A:ILE:HD13	1:71:A:ALA:H	10	0.12
(1,507)	1:68:A:PRO:HA	1:64:A:PHE:HZ	5	0.12
(1,507)	1:68:A:PRO:HA	1:64:A:PHE:HZ	11	0.12
(1,502)	1:60:A:LEU:HD21	1:57:A:VAL:HA	11	0.12
(1,502)	1:60:A:LEU:HD22	1:57:A:VAL:HA	11	0.12
(1,502)	1:60:A:LEU:HD23	1:57:A:VAL:HA	11	0.12
(1,497)	1:45:A:VAL:HG11	1:42:A:ASP:HA	4	0.12
(1,497)	1:45:A:VAL:HG12	1:42:A:ASP:HA	4	0.12
(1,497)	1:45:A:VAL:HG13	1:42:A:ASP:HA	4	0.12
(1,497)	1:45:A:VAL:HG11	1:42:A:ASP:HA	9	0.12
(1,497)	1:45:A:VAL:HG12	1:42:A:ASP:HA	9	0.12
(1,497)	1:45:A:VAL:HG13	1:42:A:ASP:HA	9	0.12
(1,451)	1:14:A:VAL:H	1:17:A:ARG:HB3	4	0.12
(1,451)	1:14:A:VAL:H	1:17:A:ARG:HB3	9	0.12
(1,408)	1:12:A:PRO:HA	1:15:A:LEU:H	4	0.12
(1,406)	1:10:A:ARG:HA	1:13:A:GLN:H	5	0.12
(1,406)	1:10:A:ARG:HA	1:13:A:GLN:H	15	0.12
(1,406)	1:10:A:ARG:HA	1:13:A:GLN:H	20	0.12
(1,352)	1:237:A:GLN:HG2	1:196:A:TRP:H	1	0.12
(1,352)	1:237:A:GLN:HG3	1:196:A:TRP:H	1	0.12
(1,349)	1:237:A:GLN:HE21	1:195:A:VAL:HA	4	0.12
(1,349)	1:237:A:GLN:HE22	1:195:A:VAL:HA	4	0.12
(1,345)	1:236:A:LYS:HA	1:196:A:TRP:HB3	2	0.12
(1,340)	1:235:A:ARG:HD2	1:163:A:GLY:HA2	7	0.12
(1,340)	1:235:A:ARG:HD3	1:163:A:GLY:HA2	7	0.12
(1,337)	1:234:A:TYR:HE1	1:198:A:CYS:H	7	0.12
(1,337)	1:234:A:TYR:HE2	1:198:A:CYS:H	7	0.12
(1,316)	1:231:A:ILE:HD11	1:52:A:ALA:H	10	0.12
(1,316)	1:231:A:ILE:HD12	1:52:A:ALA:H	10	0.12
(1,316)	1:231:A:ILE:HD13	1:52:A:ALA:H	10	0.12
(1,316)	1:231:A:ILE:HD11	1:52:A:ALA:H	20	0.12
(1,316)	1:231:A:ILE:HD12	1:52:A:ALA:H	20	0.12
(1,316)	1:231:A:ILE:HD13	1:52:A:ALA:H	20	0.12
(1,258)	1:166:A:VAL:HG11	1:157:A:LEU:HA	18	0.12
(1,258)	1:166:A:VAL:HG12	1:157:A:LEU:HA	18	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,258)	1:166:A:VAL:HG13	1:157:A:LEU:HA	18	0.12
(1,244)	1:155:A:GLU:HG2	1:127:A:LEU:H	17	0.12
(1,244)	1:155:A:GLU:HG3	1:127:A:LEU:H	17	0.12
(1,237)	1:149:A:PRO:HB3	1:123:A:GLY:HA3	2	0.12
(1,215)	1:135:A:ASP:HB3	1:72:A:LEU:H	16	0.12
(1,205)	1:134:A:PHE:HD1	1:73:A:ILE:H	7	0.12
(1,205)	1:134:A:PHE:HD2	1:73:A:ILE:H	7	0.12
(1,203)	1:134:A:PHE:HA	1:72:A:LEU:HB2	5	0.12
(1,203)	1:134:A:PHE:HA	1:72:A:LEU:HB2	16	0.12
(1,198)	1:129:A:ASP:H	1:74:A:LEU:HD11	15	0.12
(1,198)	1:129:A:ASP:H	1:74:A:LEU:HD12	15	0.12
(1,198)	1:129:A:ASP:H	1:74:A:LEU:HD13	15	0.12
(1,195)	1:122:A:LEU:HD21	1:15:A:LEU:H	18	0.12
(1,195)	1:122:A:LEU:HD22	1:15:A:LEU:H	18	0.12
(1,195)	1:122:A:LEU:HD23	1:15:A:LEU:H	18	0.12
(1,194)	1:122:A:LEU:HB2	1:15:A:LEU:H	7	0.12
(1,188)	1:120:A:CYS:H	1:98:A:VAL:HB	8	0.12
(1,188)	1:120:A:CYS:H	1:98:A:VAL:HB	16	0.12
(1,178)	1:118:A:SER:HB2	1:98:A:VAL:HG11	20	0.12
(1,178)	1:118:A:SER:HB2	1:98:A:VAL:HG12	20	0.12
(1,178)	1:118:A:SER:HB2	1:98:A:VAL:HG13	20	0.12
(1,168)	1:117:A:LEU:HB2	1:97:A:GLY:H	7	0.12
(1,168)	1:117:A:LEU:HB2	1:97:A:GLY:H	10	0.12
(1,143)	1:108:A:ALA:HB1	1:79:A:GLY:H	11	0.12
(1,143)	1:108:A:ALA:HB2	1:79:A:GLY:H	11	0.12
(1,143)	1:108:A:ALA:HB3	1:79:A:GLY:H	11	0.12
(1,130)	1:100:A:GLY:H	1:31:A:LEU:HD11	16	0.12
(1,130)	1:100:A:GLY:H	1:31:A:LEU:HD12	16	0.12
(1,130)	1:100:A:GLY:H	1:31:A:LEU:HD13	16	0.12
(1,109)	1:94:A:GLN:HE22	1:72:A:LEU:HB3	7	0.12
(1,100)	1:92:A:PHE:HE1	1:68:A:PRO:HB2	20	0.12
(1,90)	1:73:A:ILE:HD11	1:60:A:LEU:HD11	2	0.12
(1,90)	1:73:A:ILE:HD11	1:60:A:LEU:HD12	2	0.12
(1,90)	1:73:A:ILE:HD11	1:60:A:LEU:HD13	2	0.12
(1,90)	1:73:A:ILE:HD12	1:60:A:LEU:HD11	2	0.12
(1,90)	1:73:A:ILE:HD12	1:60:A:LEU:HD12	2	0.12
(1,90)	1:73:A:ILE:HD12	1:60:A:LEU:HD13	2	0.12
(1,90)	1:73:A:ILE:HD13	1:60:A:LEU:HD11	2	0.12
(1,90)	1:73:A:ILE:HD13	1:60:A:LEU:HD12	2	0.12
(1,90)	1:73:A:ILE:HD13	1:60:A:LEU:HD13	2	0.12
(1,82)	1:27:A:LEU:HD11	1:21:A:SER:HA	13	0.12
(1,82)	1:27:A:LEU:HD12	1:21:A:SER:HA	13	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,82)	1:27:A:LEU:HD13	1:21:A:SER:HA	13	0.12
(1,82)	1:27:A:LEU:HD11	1:21:A:SER:HA	19	0.12
(1,82)	1:27:A:LEU:HD12	1:21:A:SER:HA	19	0.12
(1,82)	1:27:A:LEU:HD13	1:21:A:SER:HA	19	0.12
(1,82)	1:27:A:LEU:HD11	1:21:A:SER:HA	20	0.12
(1,82)	1:27:A:LEU:HD12	1:21:A:SER:HA	20	0.12
(1,82)	1:27:A:LEU:HD13	1:21:A:SER:HA	20	0.12
(1,75)	1:237:A:GLN:H	1:196:A:TRP:HA	3	0.12
(1,72)	1:235:A:ARG:H	1:198:A:CYS:HA	8	0.12
(1,66)	1:200:A:VAL:H	1:232:A:TYR:HA	4	0.12
(1,66)	1:200:A:VAL:H	1:232:A:TYR:HA	12	0.12
(1,40)	1:100:A:GLY:H	1:121:A:THR:HA	16	0.12
(1,28)	1:237:A:GLN:H	1:197:A:GLU:H	5	0.12
(1,28)	1:237:A:GLN:H	1:197:A:GLU:H	9	0.12
(5,10)	1:222:A:ALA:N	1:219:A:GLY:O	17	0.11
(5,3)	1:92:A:PHE:H	1:87:A:LEU:O	6	0.11
(4,228)	1:237:A:GLN:N	1:195:A:VAL:O	11	0.11
(4,228)	1:237:A:GLN:N	1:195:A:VAL:O	19	0.11
(4,225)	1:236:A:LYS:H	1:164:A:GLY:O	6	0.11
(4,225)	1:236:A:LYS:H	1:164:A:GLY:O	15	0.11
(4,205)	1:200:A:VAL:H	1:233:A:LEU:O	1	0.11
(4,205)	1:200:A:VAL:H	1:233:A:LEU:O	20	0.11
(4,201)	1:197:A:GLU:H	1:235:A:ARG:O	13	0.11
(4,197)	1:195:A:VAL:H	1:190:A:LEU:O	3	0.11
(4,174)	1:182:A:THR:N	1:178:A:PRO:O	7	0.11
(4,174)	1:182:A:THR:N	1:178:A:PRO:O	9	0.11
(4,174)	1:182:A:THR:N	1:178:A:PRO:O	16	0.11
(4,171)	1:181:A:GLU:H	1:178:A:PRO:O	6	0.11
(4,171)	1:181:A:GLU:H	1:178:A:PRO:O	10	0.11
(4,165)	1:169:A:THR:H	1:139:A:ILE:O	9	0.11
(4,157)	1:165:A:LEU:H	1:135:A:ASP:O	1	0.11
(4,157)	1:165:A:LEU:H	1:135:A:ASP:O	11	0.11
(4,155)	1:164:A:GLY:H	1:161:A:LYS:O	20	0.11
(4,151)	1:160:A:THR:H	1:156:A:LEU:O	4	0.11
(4,151)	1:160:A:THR:H	1:156:A:LEU:O	19	0.11
(4,143)	1:151:A:SER:H	1:149:A:PRO:O	3	0.11
(4,138)	1:140:A:VAL:N	1:78:A:CYS:O	6	0.11
(4,129)	1:136:A:ALA:H	1:72:A:LEU:O	4	0.11
(4,120)	1:120:A:CYS:N	1:99:A:ASP:O	3	0.11
(4,117)	1:118:A:SER:H	1:97:A:GLY:O	4	0.11
(4,117)	1:118:A:SER:H	1:97:A:GLY:O	9	0.11
(4,117)	1:118:A:SER:H	1:97:A:GLY:O	14	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,87)	1:93:A:LEU:H	1:68:A:PRO:O	14	0.11
(4,82)	1:89:A:ALA:N	1:85:A:VAL:O	9	0.11
(4,65)	1:79:A:GLY:H	1:77:A:ALA:O	13	0.11
(4,56)	1:72:A:LEU:N	1:135:A:ASP:OD1	17	0.11
(4,55)	1:72:A:LEU:H	1:135:A:ASP:OD1	2	0.11
(4,46)	1:61:A:SER:N	1:57:A:VAL:O	5	0.11
(4,40)	1:57:A:VAL:N	1:53:A:PRO:O	18	0.11
(4,39)	1:57:A:VAL:H	1:53:A:PRO:O	4	0.11
(4,32)	1:43:A:GLN:N	1:39:A:PRO:O	1	0.11
(4,31)	1:43:A:GLN:H	1:39:A:PRO:O	4	0.11
(4,31)	1:43:A:GLN:H	1:39:A:PRO:O	5	0.11
(4,31)	1:43:A:GLN:H	1:39:A:PRO:O	8	0.11
(4,31)	1:43:A:GLN:H	1:39:A:PRO:O	11	0.11
(4,27)	1:40:A:GLU:H	1:37:A:TRP:O	20	0.11
(4,23)	1:34:A:TYR:H	1:30:A:LYS:O	9	0.11
(4,11)	1:14:A:VAL:H	1:10:A:ARG:O	12	0.11
(4,9)	1:11:A:LEU:H	1:146:A:GLY:O	1	0.11
(2,277)	1:57:A:VAL:HG21	1:56:A:ALA:H	2	0.11
(2,277)	1:57:A:VAL:HG22	1:56:A:ALA:H	2	0.11
(2,277)	1:57:A:VAL:HG23	1:56:A:ALA:H	2	0.11
(2,277)	1:57:A:VAL:HG21	1:56:A:ALA:H	17	0.11
(2,277)	1:57:A:VAL:HG22	1:56:A:ALA:H	17	0.11
(2,277)	1:57:A:VAL:HG23	1:56:A:ALA:H	17	0.11
(2,193)	1:181:A:GLU:H	1:179:A:TYR:HD1	12	0.11
(2,193)	1:181:A:GLU:H	1:179:A:TYR:HD2	12	0.11
(2,193)	1:181:A:GLU:H	1:179:A:TYR:HD1	13	0.11
(2,193)	1:181:A:GLU:H	1:179:A:TYR:HD2	13	0.11
(2,161)	1:144:A:SER:H	1:142:A:ALA:HB1	10	0.11
(2,161)	1:144:A:SER:H	1:142:A:ALA:HB2	10	0.11
(2,161)	1:144:A:SER:H	1:142:A:ALA:HB3	10	0.11
(2,105)	1:228:A:SER:HB2	1:173:A:ASN:HB2	15	0.11
(2,105)	1:228:A:SER:HB2	1:173:A:ASN:HB3	15	0.11
(2,105)	1:228:A:SER:HB3	1:173:A:ASN:HB2	15	0.11
(2,105)	1:228:A:SER:HB3	1:173:A:ASN:HB3	15	0.11
(2,104)	1:228:A:SER:HB2	1:173:A:ASN:HD21	7	0.11
(2,104)	1:228:A:SER:HB2	1:173:A:ASN:HD22	7	0.11
(2,104)	1:228:A:SER:HB3	1:173:A:ASN:HD21	7	0.11
(2,104)	1:228:A:SER:HB3	1:173:A:ASN:HD22	7	0.11
(2,92)	1:167:A:CYS:HB3	1:139:A:ILE:HA	12	0.11
(2,90)	1:165:A:LEU:HG	1:64:A:PHE:HB3	1	0.11
(2,65)	1:121:A:THR:H	1:98:A:VAL:HB	18	0.11
(2,46)	1:109:A:ARG:H	1:99:A:ASP:HB2	12	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,45)	1:108:A:ALA:HB1	1:83:A:VAL:H	10	0.11
(2,45)	1:108:A:ALA:HB2	1:83:A:VAL:H	10	0.11
(2,45)	1:108:A:ALA:HB3	1:83:A:VAL:H	10	0.11
(2,42)	1:99:A:ASP:HB2	1:79:A:GLY:H	12	0.11
(2,37)	1:96:A:GLN:HG3	1:74:A:LEU:HD21	11	0.11
(2,37)	1:96:A:GLN:HG3	1:74:A:LEU:HD22	11	0.11
(2,37)	1:96:A:GLN:HG3	1:74:A:LEU:HD23	11	0.11
(1,2090)	2:300:A:SAH:HG1	1:35:A:ASP:H	9	0.11
(1,2090)	2:300:A:SAH:HG2	1:35:A:ASP:H	9	0.11
(1,2089)	2:300:A:SAH:HG1	1:35:A:ASP:H	9	0.11
(1,2089)	2:300:A:SAH:HG2	1:35:A:ASP:H	9	0.11
(1,2088)	2:300:A:SAH:HG1	1:35:A:ASP:HA	19	0.11
(1,2088)	2:300:A:SAH:HG2	1:35:A:ASP:HA	19	0.11
(1,2082)	1:238:A:GLU:H	1:238:A:GLU:HG2	2	0.11
(1,2002)	1:195:A:VAL:H	1:195:A:VAL:HG11	14	0.11
(1,2002)	1:195:A:VAL:H	1:195:A:VAL:HG12	14	0.11
(1,2002)	1:195:A:VAL:H	1:195:A:VAL:HG13	14	0.11
(1,1902)	1:156:A:LEU:H	1:156:A:LEU:HD11	14	0.11
(1,1902)	1:156:A:LEU:H	1:156:A:LEU:HD12	14	0.11
(1,1902)	1:156:A:LEU:H	1:156:A:LEU:HD13	14	0.11
(1,1871)	1:138:A:ILE:HA	1:138:A:ILE:HG12	3	0.11
(1,1871)	1:138:A:ILE:HA	1:138:A:ILE:HG12	6	0.11
(1,1695)	1:64:A:PHE:HB2	1:64:A:PHE:HD1	18	0.11
(1,1645)	1:17:A:ARG:HD2	1:17:A:ARG:HA	8	0.11
(1,1471)	1:205:A:ASP:HB3	1:205:A:ASP:H	2	0.11
(1,1471)	1:205:A:ASP:HB3	1:205:A:ASP:H	4	0.11
(1,1470)	1:202:A:GLN:HB2	1:202:A:GLN:H	15	0.11
(1,1441)	1:177:A:LEU:HB3	1:177:A:LEU:H	4	0.11
(1,1441)	1:177:A:LEU:HB3	1:177:A:LEU:H	7	0.11
(1,1433)	1:167:A:CYS:HB3	1:167:A:CYS:H	3	0.11
(1,1404)	1:124:A:GLN:HB3	1:124:A:GLN:H	8	0.11
(1,1402)	1:121:A:THR:HB	1:121:A:THR:H	2	0.11
(1,1402)	1:121:A:THR:HB	1:121:A:THR:H	13	0.11
(1,1370)	1:88:A:GLN:HB3	1:88:A:GLN:H	18	0.11
(1,1118)	1:238:A:GLU:H	1:237:A:GLN:HG2	4	0.11
(1,1113)	1:232:A:TYR:H	1:231:A:ILE:HG12	4	0.11
(1,1080)	1:182:A:THR:H	1:181:A:GLU:HG3	3	0.11
(1,1074)	1:169:A:THR:HG21	1:168:A:LEU:HA	19	0.11
(1,1074)	1:169:A:THR:HG22	1:168:A:LEU:HA	19	0.11
(1,1074)	1:169:A:THR:HG23	1:168:A:LEU:HA	19	0.11
(1,1066)	1:158:A:ARG:H	1:157:A:LEU:HD21	4	0.11
(1,1066)	1:158:A:ARG:H	1:157:A:LEU:HD22	4	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1066)	1:158:A:ARG:H	1:157:A:LEU:HD23	4	0.11
(1,1066)	1:158:A:ARG:H	1:157:A:LEU:HD21	14	0.11
(1,1066)	1:158:A:ARG:H	1:157:A:LEU:HD22	14	0.11
(1,1066)	1:158:A:ARG:H	1:157:A:LEU:HD23	14	0.11
(1,1066)	1:158:A:ARG:H	1:157:A:LEU:HD21	20	0.11
(1,1066)	1:158:A:ARG:H	1:157:A:LEU:HD22	20	0.11
(1,1066)	1:158:A:ARG:H	1:157:A:LEU:HD23	20	0.11
(1,1064)	1:154:A:PRO:HD2	1:153:A:ILE:HG13	9	0.11
(1,1055)	1:140:A:VAL:HA	1:139:A:ILE:HG21	13	0.11
(1,1055)	1:140:A:VAL:HA	1:139:A:ILE:HG22	13	0.11
(1,1055)	1:140:A:VAL:HA	1:139:A:ILE:HG23	13	0.11
(1,1030)	1:116:A:HIS:HB2	1:115:A:HIS:HB3	20	0.11
(1,1028)	1:114:A:TYR:H	1:113:A:LEU:HG	17	0.11
(1,1026)	1:106:A:LYS:HE3	1:105:A:LEU:H	17	0.11
(1,1015)	1:91:A:GLY:H	1:90:A:ARG:HD3	1	0.11
(1,1015)	1:91:A:GLY:H	1:90:A:ARG:HD3	2	0.11
(1,1015)	1:91:A:GLY:H	1:90:A:ARG:HD3	8	0.11
(1,1015)	1:91:A:GLY:H	1:90:A:ARG:HD3	13	0.11
(1,987)	1:61:A:SER:H	1:60:A:LEU:HD11	19	0.11
(1,987)	1:61:A:SER:H	1:60:A:LEU:HD12	19	0.11
(1,987)	1:61:A:SER:H	1:60:A:LEU:HD13	19	0.11
(1,984)	1:54:A:ARG:H	1:53:A:PRO:HD3	2	0.11
(1,984)	1:54:A:ARG:H	1:53:A:PRO:HD3	10	0.11
(1,984)	1:54:A:ARG:H	1:53:A:PRO:HD3	14	0.11
(1,975)	1:45:A:VAL:HG11	1:44:A:ASP:HB3	18	0.11
(1,975)	1:45:A:VAL:HG12	1:44:A:ASP:HB3	18	0.11
(1,975)	1:45:A:VAL:HG13	1:44:A:ASP:HB3	18	0.11
(1,963)	1:238:A:GLU:HB2	1:239:A:THR:H	8	0.11
(1,963)	1:238:A:GLU:HB2	1:239:A:THR:H	20	0.11
(1,961)	1:236:A:LYS:HB2	1:237:A:GLN:H	5	0.11
(1,961)	1:236:A:LYS:HB3	1:237:A:GLN:H	5	0.11
(1,961)	1:236:A:LYS:HB2	1:237:A:GLN:H	7	0.11
(1,961)	1:236:A:LYS:HB3	1:237:A:GLN:H	7	0.11
(1,961)	1:236:A:LYS:HB2	1:237:A:GLN:H	10	0.11
(1,961)	1:236:A:LYS:HB3	1:237:A:GLN:H	10	0.11
(1,938)	1:199:A:LEU:HB2	1:200:A:VAL:H	14	0.11
(1,884)	1:118:A:SER:HB3	1:119:A:LEU:H	6	0.11
(1,725)	1:91:A:GLY:HA2	1:92:A:PHE:H	20	0.11
(1,647)	1:161:A:LYS:H	1:160:A:THR:H	11	0.11
(1,647)	1:161:A:LYS:H	1:160:A:THR:H	12	0.11
(1,647)	1:161:A:LYS:H	1:160:A:THR:H	16	0.11
(1,557)	1:232:A:TYR:H	1:230:A:ILE:HG21	4	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,557)	1:232:A:TYR:H	1:230:A:ILE:HG22	4	0.11
(1,557)	1:232:A:TYR:H	1:230:A:ILE:HG23	4	0.11
(1,530)	1:133:A:THR:HG21	1:129:A:ASP:HB3	15	0.11
(1,530)	1:133:A:THR:HG22	1:129:A:ASP:HB3	15	0.11
(1,530)	1:133:A:THR:HG23	1:129:A:ASP:HB3	15	0.11
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG21	2	0.11
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG22	2	0.11
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG23	2	0.11
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG21	4	0.11
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG22	4	0.11
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG23	4	0.11
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG21	16	0.11
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG22	16	0.11
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG23	16	0.11
(1,511)	1:73:A:ILE:HD11	1:71:A:ALA:HB1	9	0.11
(1,511)	1:73:A:ILE:HD11	1:71:A:ALA:HB2	9	0.11
(1,511)	1:73:A:ILE:HD11	1:71:A:ALA:HB3	9	0.11
(1,511)	1:73:A:ILE:HD12	1:71:A:ALA:HB1	9	0.11
(1,511)	1:73:A:ILE:HD12	1:71:A:ALA:HB2	9	0.11
(1,511)	1:73:A:ILE:HD12	1:71:A:ALA:HB3	9	0.11
(1,511)	1:73:A:ILE:HD13	1:71:A:ALA:HB1	9	0.11
(1,511)	1:73:A:ILE:HD13	1:71:A:ALA:HB2	9	0.11
(1,511)	1:73:A:ILE:HD13	1:71:A:ALA:HB3	9	0.11
(1,507)	1:68:A:PRO:HA	1:64:A:PHE:HZ	13	0.11
(1,502)	1:60:A:LEU:HD21	1:57:A:VAL:HA	8	0.11
(1,502)	1:60:A:LEU:HD22	1:57:A:VAL:HA	8	0.11
(1,502)	1:60:A:LEU:HD23	1:57:A:VAL:HA	8	0.11
(1,497)	1:45:A:VAL:HG11	1:42:A:ASP:HA	7	0.11
(1,497)	1:45:A:VAL:HG12	1:42:A:ASP:HA	7	0.11
(1,497)	1:45:A:VAL:HG13	1:42:A:ASP:HA	7	0.11
(1,497)	1:45:A:VAL:HG11	1:42:A:ASP:HA	17	0.11
(1,497)	1:45:A:VAL:HG12	1:42:A:ASP:HA	17	0.11
(1,497)	1:45:A:VAL:HG13	1:42:A:ASP:HA	17	0.11
(1,497)	1:45:A:VAL:HG11	1:42:A:ASP:HA	18	0.11
(1,497)	1:45:A:VAL:HG12	1:42:A:ASP:HA	18	0.11
(1,497)	1:45:A:VAL:HG13	1:42:A:ASP:HA	18	0.11
(1,497)	1:45:A:VAL:HG11	1:42:A:ASP:HA	19	0.11
(1,497)	1:45:A:VAL:HG12	1:42:A:ASP:HA	19	0.11
(1,497)	1:45:A:VAL:HG13	1:42:A:ASP:HA	19	0.11
(1,483)	1:57:A:VAL:HA	1:60:A:LEU:HB2	15	0.11
(1,451)	1:14:A:VAL:H	1:17:A:ARG:HB3	2	0.11
(1,451)	1:14:A:VAL:H	1:17:A:ARG:HB3	7	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,352)	1:237:A:GLN:HG2	1:196:A:TRP:H	18	0.11
(1,352)	1:237:A:GLN:HG3	1:196:A:TRP:H	18	0.11
(1,352)	1:237:A:GLN:HG2	1:196:A:TRP:H	19	0.11
(1,352)	1:237:A:GLN:HG3	1:196:A:TRP:H	19	0.11
(1,347)	1:237:A:GLN:HB2	1:164:A:GLY:H	4	0.11
(1,347)	1:237:A:GLN:HB3	1:164:A:GLY:H	4	0.11
(1,345)	1:236:A:LYS:HA	1:196:A:TRP:HB3	11	0.11
(1,345)	1:236:A:LYS:HA	1:196:A:TRP:HB3	16	0.11
(1,341)	1:235:A:ARG:HA	1:165:A:LEU:HD11	1	0.11
(1,341)	1:235:A:ARG:HA	1:165:A:LEU:HD12	1	0.11
(1,341)	1:235:A:ARG:HA	1:165:A:LEU:HD13	1	0.11
(1,337)	1:234:A:TYR:HE1	1:198:A:CYS:H	5	0.11
(1,337)	1:234:A:TYR:HE2	1:198:A:CYS:H	5	0.11
(1,329)	1:232:A:TYR:HA	1:201:A:THR:HB	11	0.11
(1,329)	1:232:A:TYR:HA	1:201:A:THR:HB	20	0.11
(1,327)	1:232:A:TYR:HE1	1:169:A:THR:HA	13	0.11
(1,327)	1:232:A:TYR:HE2	1:169:A:THR:HA	13	0.11
(1,325)	1:232:A:TYR:H	1:168:A:LEU:HD11	17	0.11
(1,325)	1:232:A:TYR:H	1:168:A:LEU:HD12	17	0.11
(1,325)	1:232:A:TYR:H	1:168:A:LEU:HD13	17	0.11
(1,316)	1:231:A:ILE:HD11	1:52:A:ALA:H	7	0.11
(1,316)	1:231:A:ILE:HD12	1:52:A:ALA:H	7	0.11
(1,316)	1:231:A:ILE:HD13	1:52:A:ALA:H	7	0.11
(1,312)	1:229:A:GLY:H	1:172:A:THR:HB	5	0.11
(1,312)	1:229:A:GLY:H	1:172:A:THR:HB	15	0.11
(1,311)	1:228:A:SER:HA	1:174:A:PRO:HD2	2	0.11
(1,308)	1:227:A:ILE:HD11	1:173:A:ASN:H	10	0.11
(1,308)	1:227:A:ILE:HD12	1:173:A:ASN:H	10	0.11
(1,308)	1:227:A:ILE:HD13	1:173:A:ASN:H	10	0.11
(1,281)	1:196:A:TRP:HH2	1:187:A:LEU:HA	3	0.11
(1,250)	1:159:A:VAL:HG21	1:133:A:THR:HB	2	0.11
(1,250)	1:159:A:VAL:HG22	1:133:A:THR:HB	2	0.11
(1,250)	1:159:A:VAL:HG23	1:133:A:THR:HB	2	0.11
(1,250)	1:159:A:VAL:HG21	1:133:A:THR:HB	20	0.11
(1,250)	1:159:A:VAL:HG22	1:133:A:THR:HB	20	0.11
(1,250)	1:159:A:VAL:HG23	1:133:A:THR:HB	20	0.11
(1,239)	1:153:A:ILE:HD11	1:143:A:LEU:HB3	3	0.11
(1,239)	1:153:A:ILE:HD12	1:143:A:LEU:HB3	3	0.11
(1,239)	1:153:A:ILE:HD13	1:143:A:LEU:HB3	3	0.11
(1,234)	1:140:A:VAL:HG21	1:45:A:VAL:HG21	7	0.11
(1,234)	1:140:A:VAL:HG21	1:45:A:VAL:HG22	7	0.11
(1,234)	1:140:A:VAL:HG21	1:45:A:VAL:HG23	7	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,234)	1:140:A:VAL:HG22	1:45:A:VAL:HG21	7	0.11
(1,234)	1:140:A:VAL:HG22	1:45:A:VAL:HG22	7	0.11
(1,234)	1:140:A:VAL:HG22	1:45:A:VAL:HG23	7	0.11
(1,234)	1:140:A:VAL:HG23	1:45:A:VAL:HG21	7	0.11
(1,234)	1:140:A:VAL:HG23	1:45:A:VAL:HG22	7	0.11
(1,234)	1:140:A:VAL:HG23	1:45:A:VAL:HG23	7	0.11
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD11	7	0.11
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD12	7	0.11
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD13	7	0.11
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD11	8	0.11
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD12	8	0.11
(1,219)	1:135:A:ASP:HB2	1:73:A:ILE:HD13	8	0.11
(1,209)	1:134:A:PHE:HD1	1:74:A:LEU:H	8	0.11
(1,209)	1:134:A:PHE:HD2	1:74:A:LEU:H	8	0.11
(1,203)	1:134:A:PHE:HA	1:72:A:LEU:HB2	8	0.11
(1,203)	1:134:A:PHE:HA	1:72:A:LEU:HB2	19	0.11
(1,203)	1:134:A:PHE:HA	1:72:A:LEU:HB2	20	0.11
(1,188)	1:120:A:CYS:H	1:98:A:VAL:HB	20	0.11
(1,168)	1:117:A:LEU:HB2	1:97:A:GLY:H	19	0.11
(1,155)	1:114:A:TYR:HB2	1:97:A:GLY:H	1	0.11
(1,155)	1:114:A:TYR:HB3	1:97:A:GLY:H	1	0.11
(1,147)	1:111:A:ARG:HD2	1:85:A:VAL:HG11	9	0.11
(1,147)	1:111:A:ARG:HD2	1:85:A:VAL:HG12	9	0.11
(1,147)	1:111:A:ARG:HD2	1:85:A:VAL:HG13	9	0.11
(1,143)	1:108:A:ALA:HB1	1:79:A:GLY:H	5	0.11
(1,143)	1:108:A:ALA:HB2	1:79:A:GLY:H	5	0.11
(1,143)	1:108:A:ALA:HB3	1:79:A:GLY:H	5	0.11
(1,143)	1:108:A:ALA:HB1	1:79:A:GLY:H	8	0.11
(1,143)	1:108:A:ALA:HB2	1:79:A:GLY:H	8	0.11
(1,143)	1:108:A:ALA:HB3	1:79:A:GLY:H	8	0.11
(1,132)	1:100:A:GLY:HA2	1:31:A:LEU:HD11	19	0.11
(1,132)	1:100:A:GLY:HA2	1:31:A:LEU:HD12	19	0.11
(1,132)	1:100:A:GLY:HA2	1:31:A:LEU:HD13	19	0.11
(1,132)	1:100:A:GLY:HA3	1:31:A:LEU:HD11	19	0.11
(1,132)	1:100:A:GLY:HA3	1:31:A:LEU:HD12	19	0.11
(1,132)	1:100:A:GLY:HA3	1:31:A:LEU:HD13	19	0.11
(1,132)	1:100:A:GLY:HA2	1:31:A:LEU:HD11	20	0.11
(1,132)	1:100:A:GLY:HA2	1:31:A:LEU:HD12	20	0.11
(1,132)	1:100:A:GLY:HA2	1:31:A:LEU:HD13	20	0.11
(1,132)	1:100:A:GLY:HA3	1:31:A:LEU:HD11	20	0.11
(1,132)	1:100:A:GLY:HA3	1:31:A:LEU:HD12	20	0.11
(1,132)	1:100:A:GLY:HA3	1:31:A:LEU:HD13	20	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,129)	1:99:A:ASP:HB3	1:79:A:GLY:H	6	0.11
(1,113)	1:94:A:GLN:HE22	1:72:A:LEU:HD11	7	0.11
(1,113)	1:94:A:GLN:HE22	1:72:A:LEU:HD12	7	0.11
(1,113)	1:94:A:GLN:HE22	1:72:A:LEU:HD13	7	0.11
(1,109)	1:94:A:GLN:HE22	1:72:A:LEU:HB3	9	0.11
(1,106)	1:94:A:GLN:HE22	1:70:A:ASP:HA	18	0.11
(1,100)	1:92:A:PHE:HE1	1:68:A:PRO:HB2	5	0.11
(1,90)	1:73:A:ILE:HD11	1:60:A:LEU:HD11	19	0.11
(1,90)	1:73:A:ILE:HD11	1:60:A:LEU:HD12	19	0.11
(1,90)	1:73:A:ILE:HD11	1:60:A:LEU:HD13	19	0.11
(1,90)	1:73:A:ILE:HD12	1:60:A:LEU:HD11	19	0.11
(1,90)	1:73:A:ILE:HD12	1:60:A:LEU:HD12	19	0.11
(1,90)	1:73:A:ILE:HD12	1:60:A:LEU:HD13	19	0.11
(1,90)	1:73:A:ILE:HD13	1:60:A:LEU:HD11	19	0.11
(1,90)	1:73:A:ILE:HD13	1:60:A:LEU:HD12	19	0.11
(1,90)	1:73:A:ILE:HD13	1:60:A:LEU:HD13	19	0.11
(1,81)	1:27:A:LEU:HD11	1:17:A:ARG:HD2	16	0.11
(1,81)	1:27:A:LEU:HD12	1:17:A:ARG:HD2	16	0.11
(1,81)	1:27:A:LEU:HD13	1:17:A:ARG:HD2	16	0.11
(1,75)	1:237:A:GLN:H	1:196:A:TRP:HA	8	0.11
(1,74)	1:236:A:LYS:H	1:165:A:LEU:HA	11	0.11
(1,73)	1:235:A:ARG:H	1:199:A:LEU:HA	19	0.11
(1,64)	1:199:A:LEU:H	1:233:A:LEU:HA	3	0.11
(1,61)	1:170:A:THR:H	1:231:A:ILE:HA	8	0.11
(1,28)	1:237:A:GLN:H	1:197:A:GLU:H	18	0.11
(1,18)	1:229:A:GLY:H	1:170:A:THR:H	14	0.11
(4,217)	1:231:A:ILE:H	1:202:A:GLN:O	5	0.1
(4,213)	1:229:A:GLY:H	1:170:A:THR:O	12	0.1
(4,207)	1:209:A:LEU:H	1:205:A:ASP:O	4	0.1
(4,206)	1:200:A:VAL:N	1:233:A:LEU:O	11	0.1
(4,206)	1:200:A:VAL:N	1:233:A:LEU:O	17	0.1
(4,203)	1:199:A:LEU:H	1:233:A:LEU:O	18	0.1
(4,197)	1:195:A:VAL:H	1:190:A:LEU:O	7	0.1
(4,153)	1:161:A:LYS:H	1:134:A:PHE:O	19	0.1
(4,138)	1:140:A:VAL:N	1:78:A:CYS:O	16	0.1
(4,114)	1:114:A:TYR:N	1:108:A:ALA:O	13	0.1
(4,112)	1:113:A:LEU:N	1:108:A:ALA:O	19	0.1
(4,81)	1:89:A:ALA:H	1:85:A:VAL:O	12	0.1
(4,63)	1:77:A:ALA:H	1:98:A:VAL:O	16	0.1
(4,56)	1:72:A:LEU:N	1:135:A:ASP:OD1	12	0.1
(4,51)	1:69:A:HIS:H	1:67:A:SER:O	19	0.1
(4,46)	1:61:A:SER:N	1:57:A:VAL:O	9	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,39)	1:57:A:VAL:H	1:53:A:PRO:O	9	0.1
(4,27)	1:40:A:GLU:H	1:37:A:TRP:O	4	0.1
(2,193)	1:181:A:GLU:H	1:179:A:TYR:HD1	9	0.1
(2,193)	1:181:A:GLU:H	1:179:A:TYR:HD2	9	0.1
(2,98)	1:210:A:ALA:HB1	1:177:A:LEU:HA	14	0.1
(2,98)	1:210:A:ALA:HB2	1:177:A:LEU:HA	14	0.1
(2,98)	1:210:A:ALA:HB3	1:177:A:LEU:HA	14	0.1
(2,93)	1:168:A:LEU:HA	1:143:A:LEU:HG	18	0.1
(2,72)	1:135:A:ASP:HB3	1:71:A:ALA:H	19	0.1
(2,46)	1:109:A:ARG:H	1:99:A:ASP:HB2	14	0.1
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD21	11	0.1
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD22	11	0.1
(2,35)	1:96:A:GLN:HG2	1:74:A:LEU:HD23	11	0.1
(1,2103)	2:300:A:SAH:H2	1:121:A:THR:HG21	11	0.1
(1,2103)	2:300:A:SAH:H2	1:121:A:THR:HG22	11	0.1
(1,2103)	2:300:A:SAH:H2	1:121:A:THR:HG23	11	0.1
(1,2090)	2:300:A:SAH:HG1	1:35:A:ASP:H	16	0.1
(1,2090)	2:300:A:SAH:HG2	1:35:A:ASP:H	16	0.1
(1,2089)	2:300:A:SAH:HG1	1:35:A:ASP:H	16	0.1
(1,2089)	2:300:A:SAH:HG2	1:35:A:ASP:H	16	0.1
(1,2086)	2:300:A:SAH:HA	1:35:A:ASP:HA	14	0.1
(1,1774)	1:94:A:GLN:HG2	1:94:A:GLN:H	9	0.1
(1,1695)	1:64:A:PHE:HB2	1:64:A:PHE:HD1	9	0.1
(1,1471)	1:205:A:ASP:HB3	1:205:A:ASP:H	16	0.1
(1,1470)	1:202:A:GLN:HB2	1:202:A:GLN:H	13	0.1
(1,1441)	1:177:A:LEU:HB3	1:177:A:LEU:H	14	0.1
(1,1433)	1:167:A:CYS:HB3	1:167:A:CYS:H	12	0.1
(1,1405)	1:131:A:GLU:HB3	1:131:A:GLU:H	5	0.1
(1,1405)	1:131:A:GLU:HB3	1:131:A:GLU:H	8	0.1
(1,1405)	1:131:A:GLU:HB3	1:131:A:GLU:H	12	0.1
(1,1405)	1:131:A:GLU:HB3	1:131:A:GLU:H	18	0.1
(1,1404)	1:124:A:GLN:HB3	1:124:A:GLN:H	2	0.1
(1,1404)	1:124:A:GLN:HB3	1:124:A:GLN:H	4	0.1
(1,1318)	1:40:A:GLU:HB3	1:40:A:GLU:H	13	0.1
(1,1097)	1:201:A:THR:H	1:200:A:VAL:HG21	9	0.1
(1,1097)	1:201:A:THR:H	1:200:A:VAL:HG22	9	0.1
(1,1097)	1:201:A:THR:H	1:200:A:VAL:HG23	9	0.1
(1,1091)	1:193:A:ALA:H	1:192:A:ARG:HD3	14	0.1
(1,1072)	1:167:A:CYS:HA	1:166:A:VAL:HG21	7	0.1
(1,1072)	1:167:A:CYS:HA	1:166:A:VAL:HG22	7	0.1
(1,1072)	1:167:A:CYS:HA	1:166:A:VAL:HG23	7	0.1
(1,1066)	1:158:A:ARG:H	1:157:A:LEU:HD21	13	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1066)	1:158:A:ARG:H	1:157:A:LEU:HD22	13	0.1
(1,1066)	1:158:A:ARG:H	1:157:A:LEU:HD23	13	0.1
(1,1055)	1:140:A:VAL:HA	1:139:A:ILE:HG21	3	0.1
(1,1055)	1:140:A:VAL:HA	1:139:A:ILE:HG22	3	0.1
(1,1055)	1:140:A:VAL:HA	1:139:A:ILE:HG23	3	0.1
(1,1046)	1:132:A:GLY:H	1:131:A:GLU:HG3	1	0.1
(1,1028)	1:114:A:TYR:H	1:113:A:LEU:HG	8	0.1
(1,1018)	1:94:A:GLN:HG2	1:93:A:LEU:H	12	0.1
(1,1015)	1:91:A:GLY:H	1:90:A:ARG:HD3	15	0.1
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG21	6	0.1
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG22	6	0.1
(1,1011)	1:86:A:GLU:H	1:85:A:VAL:HG23	6	0.1
(1,975)	1:45:A:VAL:HG11	1:44:A:ASP:HB3	8	0.1
(1,975)	1:45:A:VAL:HG12	1:44:A:ASP:HB3	8	0.1
(1,975)	1:45:A:VAL:HG13	1:44:A:ASP:HB3	8	0.1
(1,883)	1:117:A:LEU:HB2	1:118:A:SER:H	17	0.1
(1,842)	1:54:A:ARG:HB2	1:55:A:LEU:H	1	0.1
(1,836)	1:43:A:GLN:HB2	1:42:A:ASP:H	5	0.1
(1,836)	1:43:A:GLN:HB3	1:42:A:ASP:H	5	0.1
(1,808)	1:227:A:ILE:HA	1:228:A:SER:H	13	0.1
(1,774)	1:172:A:THR:HA	1:173:A:ASN:H	4	0.1
(1,654)	1:173:A:ASN:H	1:172:A:THR:H	16	0.1
(1,557)	1:232:A:TYR:H	1:230:A:ILE:HG21	10	0.1
(1,557)	1:232:A:TYR:H	1:230:A:ILE:HG22	10	0.1
(1,557)	1:232:A:TYR:H	1:230:A:ILE:HG23	10	0.1
(1,549)	1:190:A:LEU:HD11	1:186:A:THR:HG21	9	0.1
(1,549)	1:190:A:LEU:HD11	1:186:A:THR:HG22	9	0.1
(1,549)	1:190:A:LEU:HD11	1:186:A:THR:HG23	9	0.1
(1,549)	1:190:A:LEU:HD12	1:186:A:THR:HG21	9	0.1
(1,549)	1:190:A:LEU:HD12	1:186:A:THR:HG22	9	0.1
(1,549)	1:190:A:LEU:HD12	1:186:A:THR:HG23	9	0.1
(1,549)	1:190:A:LEU:HD13	1:186:A:THR:HG21	9	0.1
(1,549)	1:190:A:LEU:HD13	1:186:A:THR:HG22	9	0.1
(1,549)	1:190:A:LEU:HD13	1:186:A:THR:HG23	9	0.1
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG21	6	0.1
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG22	6	0.1
(1,512)	1:83:A:VAL:HB	1:80:A:THR:HG23	6	0.1
(1,511)	1:73:A:ILE:HD11	1:71:A:ALA:HB1	18	0.1
(1,511)	1:73:A:ILE:HD11	1:71:A:ALA:HB2	18	0.1
(1,511)	1:73:A:ILE:HD11	1:71:A:ALA:HB3	18	0.1
(1,511)	1:73:A:ILE:HD12	1:71:A:ALA:HB1	18	0.1
(1,511)	1:73:A:ILE:HD12	1:71:A:ALA:HB2	18	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,511)	1:73:A:ILE:HD12	1:71:A:ALA:HB3	18	0.1
(1,511)	1:73:A:ILE:HD13	1:71:A:ALA:HB1	18	0.1
(1,511)	1:73:A:ILE:HD13	1:71:A:ALA:HB2	18	0.1
(1,511)	1:73:A:ILE:HD13	1:71:A:ALA:HB3	18	0.1
(1,502)	1:60:A:LEU:HD21	1:57:A:VAL:HA	19	0.1
(1,502)	1:60:A:LEU:HD22	1:57:A:VAL:HA	19	0.1
(1,502)	1:60:A:LEU:HD23	1:57:A:VAL:HA	19	0.1
(1,497)	1:45:A:VAL:HG11	1:42:A:ASP:HA	15	0.1
(1,497)	1:45:A:VAL:HG12	1:42:A:ASP:HA	15	0.1
(1,497)	1:45:A:VAL:HG13	1:42:A:ASP:HA	15	0.1
(1,494)	1:14:A:VAL:H	1:11:A:LEU:HD11	9	0.1
(1,494)	1:14:A:VAL:H	1:11:A:LEU:HD12	9	0.1
(1,494)	1:14:A:VAL:H	1:11:A:LEU:HD13	9	0.1
(1,406)	1:10:A:ARG:HA	1:13:A:GLN:H	3	0.1
(1,406)	1:10:A:ARG:HA	1:13:A:GLN:H	14	0.1
(1,345)	1:236:A:LYS:HA	1:196:A:TRP:HB3	20	0.1
(1,333)	1:233:A:LEU:HD21	1:202:A:GLN:HE21	5	0.1
(1,333)	1:233:A:LEU:HD22	1:202:A:GLN:HE21	5	0.1
(1,333)	1:233:A:LEU:HD23	1:202:A:GLN:HE21	5	0.1
(1,329)	1:232:A:TYR:HA	1:201:A:THR:HB	18	0.1
(1,304)	1:226:A:PHE:HB3	1:177:A:LEU:HD21	5	0.1
(1,304)	1:226:A:PHE:HB3	1:177:A:LEU:HD22	5	0.1
(1,304)	1:226:A:PHE:HB3	1:177:A:LEU:HD23	5	0.1
(1,301)	1:210:A:ALA:HB1	1:177:A:LEU:HB2	19	0.1
(1,301)	1:210:A:ALA:HB1	1:177:A:LEU:HB3	19	0.1
(1,301)	1:210:A:ALA:HB2	1:177:A:LEU:HB2	19	0.1
(1,301)	1:210:A:ALA:HB2	1:177:A:LEU:HB3	19	0.1
(1,301)	1:210:A:ALA:HB3	1:177:A:LEU:HB2	19	0.1
(1,301)	1:210:A:ALA:HB3	1:177:A:LEU:HB3	19	0.1
(1,261)	1:167:A:CYS:HB3	1:138:A:ILE:HG12	14	0.1
(1,260)	1:167:A:CYS:HB3	1:138:A:ILE:HA	12	0.1
(1,254)	1:165:A:LEU:HD11	1:64:A:PHE:H	20	0.1
(1,254)	1:165:A:LEU:HD12	1:64:A:PHE:H	20	0.1
(1,254)	1:165:A:LEU:HD13	1:64:A:PHE:H	20	0.1
(1,244)	1:155:A:GLU:HG2	1:127:A:LEU:H	4	0.1
(1,244)	1:155:A:GLU:HG3	1:127:A:LEU:H	4	0.1
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG11	18	0.1
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG12	18	0.1
(1,242)	1:153:A:ILE:HG21	1:148:A:VAL:HG13	18	0.1
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG11	18	0.1
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG12	18	0.1
(1,242)	1:153:A:ILE:HG22	1:148:A:VAL:HG13	18	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG11	18	0.1
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG12	18	0.1
(1,242)	1:153:A:ILE:HG23	1:148:A:VAL:HG13	18	0.1
(1,231)	1:138:A:ILE:HG21	1:75:A:ASP:HB2	1	0.1
(1,231)	1:138:A:ILE:HG22	1:75:A:ASP:HB2	1	0.1
(1,231)	1:138:A:ILE:HG23	1:75:A:ASP:HB2	1	0.1
(1,209)	1:134:A:PHE:HD1	1:74:A:LEU:H	9	0.1
(1,209)	1:134:A:PHE:HD2	1:74:A:LEU:H	9	0.1
(1,195)	1:122:A:LEU:HD21	1:15:A:LEU:H	9	0.1
(1,195)	1:122:A:LEU:HD22	1:15:A:LEU:H	9	0.1
(1,195)	1:122:A:LEU:HD23	1:15:A:LEU:H	9	0.1
(1,188)	1:120:A:CYS:H	1:98:A:VAL:HB	3	0.1
(1,183)	1:119:A:LEU:H	1:98:A:VAL:HG11	17	0.1
(1,183)	1:119:A:LEU:H	1:98:A:VAL:HG12	17	0.1
(1,183)	1:119:A:LEU:H	1:98:A:VAL:HG13	17	0.1
(1,170)	1:117:A:LEU:HD11	1:99:A:ASP:HB2	3	0.1
(1,170)	1:117:A:LEU:HD12	1:99:A:ASP:HB2	3	0.1
(1,170)	1:117:A:LEU:HD13	1:99:A:ASP:HB2	3	0.1
(1,155)	1:114:A:TYR:HB2	1:97:A:GLY:H	3	0.1
(1,155)	1:114:A:TYR:HB3	1:97:A:GLY:H	3	0.1
(1,146)	1:108:A:ALA:HB1	1:81:A:GLY:H	4	0.1
(1,146)	1:108:A:ALA:HB2	1:81:A:GLY:H	4	0.1
(1,146)	1:108:A:ALA:HB3	1:81:A:GLY:H	4	0.1
(1,106)	1:94:A:GLN:HE22	1:70:A:ASP:HA	20	0.1
(1,90)	1:73:A:ILE:HD11	1:60:A:LEU:HD11	8	0.1
(1,90)	1:73:A:ILE:HD11	1:60:A:LEU:HD12	8	0.1
(1,90)	1:73:A:ILE:HD11	1:60:A:LEU:HD13	8	0.1
(1,90)	1:73:A:ILE:HD12	1:60:A:LEU:HD11	8	0.1
(1,90)	1:73:A:ILE:HD12	1:60:A:LEU:HD12	8	0.1
(1,90)	1:73:A:ILE:HD12	1:60:A:LEU:HD13	8	0.1
(1,90)	1:73:A:ILE:HD13	1:60:A:LEU:HD11	8	0.1
(1,90)	1:73:A:ILE:HD13	1:60:A:LEU:HD12	8	0.1
(1,90)	1:73:A:ILE:HD13	1:60:A:LEU:HD13	8	0.1
(1,81)	1:27:A:LEU:HD11	1:17:A:ARG:HD2	5	0.1
(1,81)	1:27:A:LEU:HD12	1:17:A:ARG:HD2	5	0.1
(1,81)	1:27:A:LEU:HD13	1:17:A:ARG:HD2	5	0.1
(1,77)	1:226:A:PHE:HA	1:177:A:LEU:HA	8	0.1
(1,61)	1:170:A:THR:H	1:231:A:ILE:HA	3	0.1

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

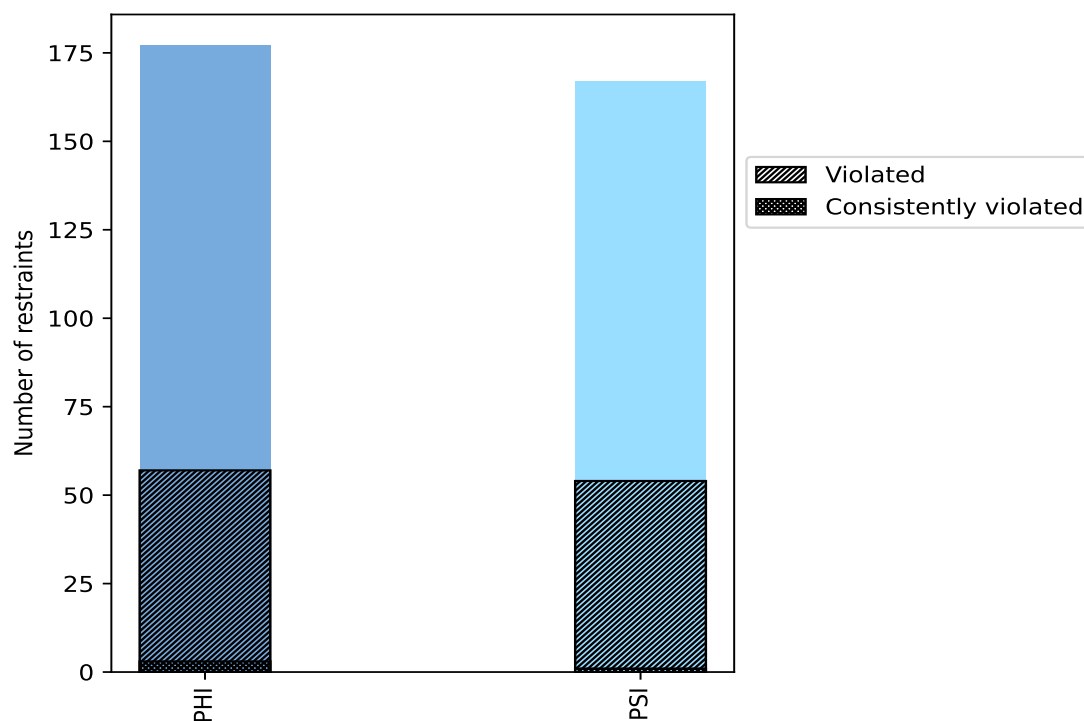
10.1 Summary of dihedral-angle violations [i](#)

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

Angle type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
PHI	177	51.5	57	32.2	16.6	3	1.7	0.9
PSI	167	48.5	54	32.3	15.7	1	0.6	0.3
Total	344	100.0	111	32.3	32.3	4	1.2	1.2

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

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



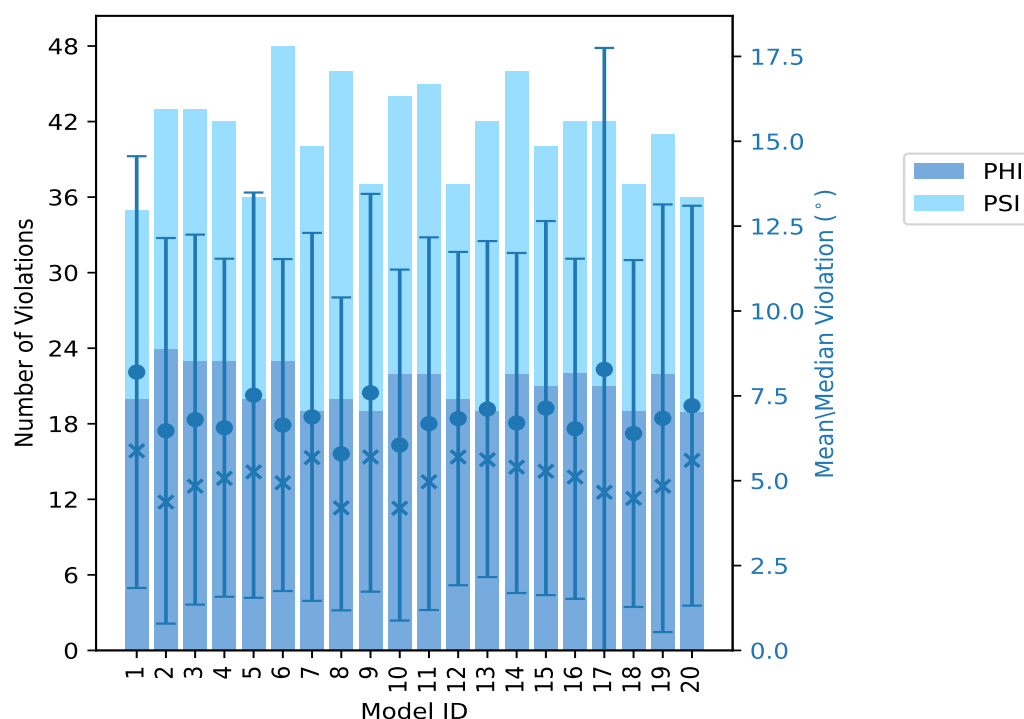
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

10.2 Dihedral-angle violation statistics for each model [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 (°)
	PHI	PSI	Total				
1	20	15	35	8.2	24.31	6.36	5.88
2	24	19	43	6.47	25.72	5.68	4.37
3	23	20	43	6.8	24.54	5.45	4.84
4	23	19	42	6.56	23.05	4.98	5.07
5	20	16	36	7.52	24.11	5.97	5.26
6	23	25	48	6.64	21.82	4.89	4.94
7	19	21	40	6.88	28.07	5.42	5.68
8	20	26	46	5.79	21.97	4.61	4.2
9	19	18	37	7.59	25.28	5.86	5.7
10	22	22	44	6.05	22.9	5.17	4.19
11	22	23	45	6.68	24.13	5.49	4.97
12	20	17	37	6.83	24.55	4.91	5.7
13	19	23	42	7.11	23.18	4.95	5.62
14	22	24	46	6.7	21.34	5.01	5.4
15	21	19	40	7.14	24.45	5.51	5.28
16	22	20	42	6.53	24.53	5.01	5.11
17	21	21	42	8.28	49.81	9.47	4.66
18	19	18	37	6.39	24.29	5.11	4.48
19	22	19	41	6.84	26.62	6.3	4.84
20	19	17	36	7.21	28.45	5.89	5.6

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



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

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

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

Number of violated restraints			Fraction of the ensemble	
PHI	PSI	Total	Count ¹	%
14	11	25	1	5.0
5	8	13	2	10.0
7	3	10	3	15.0
4	4	8	4	20.0
2	2	4	5	25.0
3	2	5	6	30.0
1	1	2	7	35.0
0	2	2	8	40.0
3	4	7	9	45.0
0	1	1	10	50.0
1	1	2	11	55.0

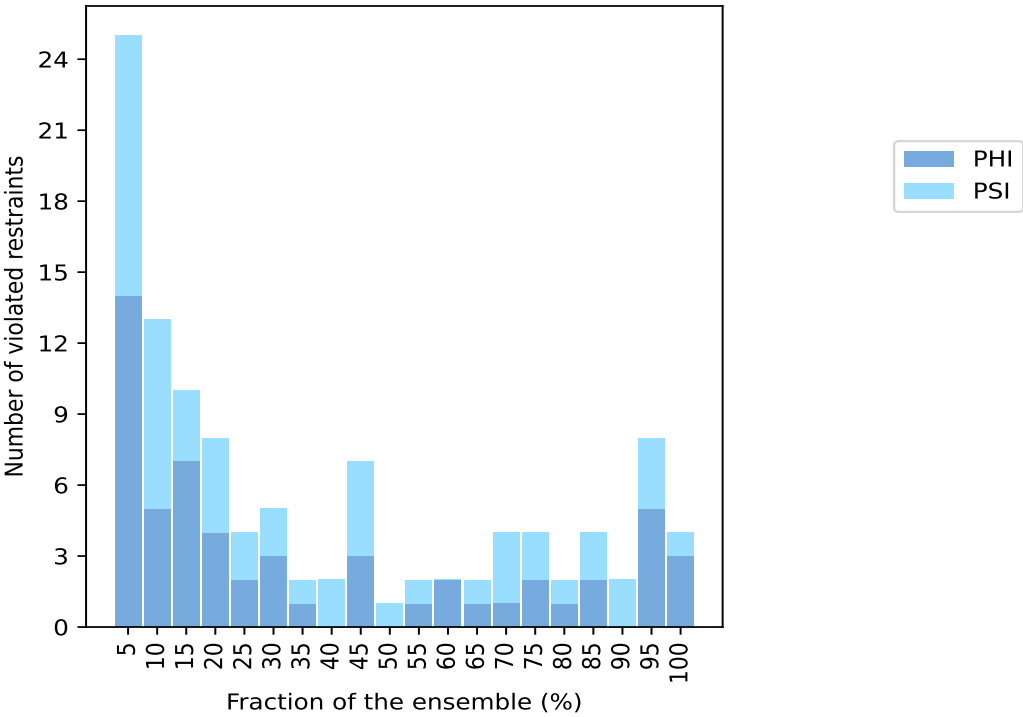
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Number of violated restraints			Fraction of the ensemble	
PHI	PSI	Total	Count ¹	%
2	0	2	12	60.0
1	1	2	13	65.0
1	3	4	14	70.0
2	2	4	15	75.0
1	1	2	16	80.0
2	2	4	17	85.0
0	2	2	18	90.0
5	3	8	19	95.0
3	1	4	20	100.0

¹ Number of models with violations

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

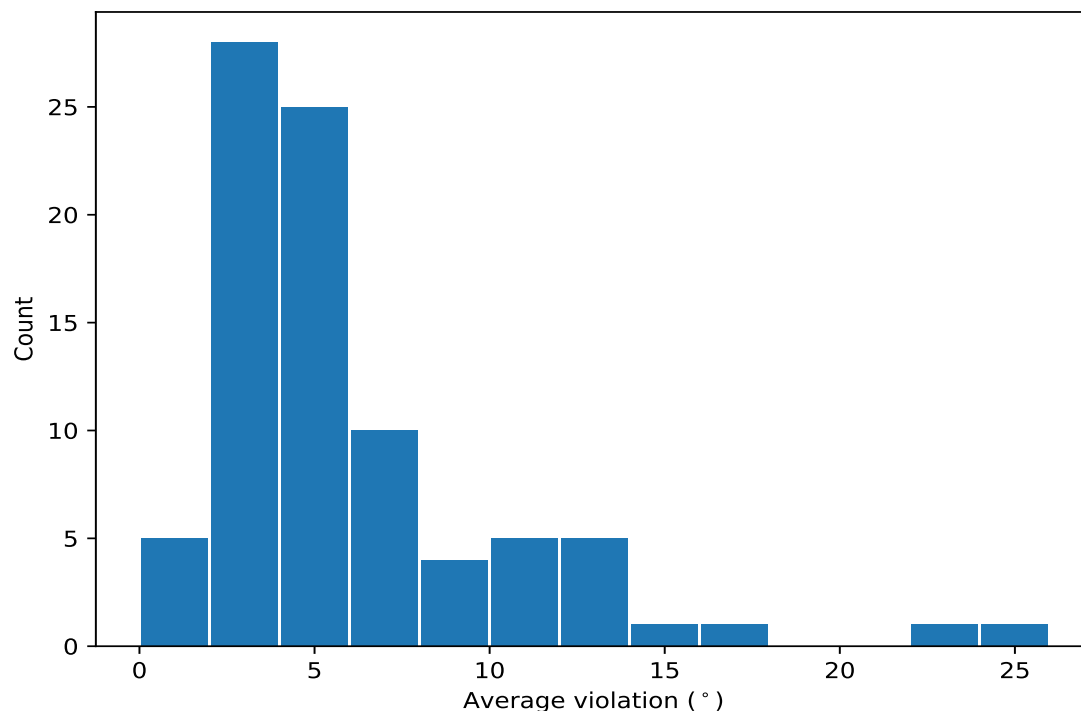


10.4 Most violated dihedral-angle restraints in the ensemble ⓘ

10.4.1 Histogram : Distribution of mean dihedral-angle violations ⓘ

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

in the ensemble



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

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

Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,237)	1:79:A:GLY:N	1:79:A:GLY:CA	1:79:A:GLY:C	1:80:A:THR:N	20	22.31	5.61	23.64
(1,152)	1:192:A:ARG:C	1:193:A:ALA:N	1:193:A:ALA:CA	1:193:A:ALA:C	20	7.82	3.19	8.03
(1,102)	1:133:A:THR:C	1:134:A:PHE:N	1:134:A:PHE:CA	1:134:A:PHE:C	20	7.62	3.43	8.24
(1,56)	1:72:A:LEU:C	1:73:A:ILE:N	1:73:A:ILE:CA	1:73:A:ILE:C	20	5.51	1.32	5.64
(1,71)	1:90:A:ARG:C	1:91:A:GLY:N	1:91:A:GLY:CA	1:91:A:GLY:C	19	12.25	4.87	14.46
(1,169)	1:226:A:PHE:C	1:227:A:ILE:N	1:227:A:ILE:CA	1:227:A:ILE:C	19	10.64	4.81	9.79
(1,214)	1:54:A:ARG:N	1:54:A:ARG:CA	1:54:A:ARG:C	1:55:A:LEU:N	19	7.62	1.68	7.49
(1,36)	1:51:A:ARG:C	1:52:A:ALA:N	1:52:A:ALA:CA	1:52:A:ALA:C	19	6.08	2.99	5.49
(1,216)	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	1:57:A:VAL:N	19	4.89	0.51	4.94
(1,10)	1:18:A:VAL:C	1:19:A:GLY:N	1:19:A:GLY:CA	1:19:A:GLY:C	19	4.76	1.33	4.22
(1,279)	1:138:A:ILE:N	1:138:A:ILE:CA	1:138:A:ILE:C	1:139:A:ILE:N	19	4.61	1.9	4.52
(1,61)	1:80:A:THR:C	1:81:A:GLY:N	1:81:A:GLY:CA	1:81:A:GLY:C	19	4.38	1.44	4.48
(1,335)	1:227:A:ILE:N	1:227:A:ILE:CA	1:227:A:ILE:C	1:228:A:SER:N	18	13.7	3.45	11.56
(1,193)	1:29:A:CYS:N	1:29:A:CYS:CA	1:29:A:CYS:C	1:30:A:LYS:N	18	2.9	2.03	1.82
(1,283)	1:143:A:LEU:N	1:143:A:LEU:CA	1:143:A:LEU:C	1:144:A:SER:N	17	16.99	2.81	17.11
(1,285)	1:145:A:GLU:N	1:145:A:GLU:CA	1:145:A:GLU:C	1:146:A:GLY:N	17	13.94	2.78	13.72
(1,73)	1:94:A:GLN:C	1:95:A:VAL:N	1:95:A:VAL:CA	1:95:A:VAL:C	17	4.98	2.45	4.17
(1,40)	1:55:A:LEU:C	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	17	4.68	2.47	4.53
(1,113)	1:147:A:GLN:C	1:148:A:VAL:N	1:148:A:VAL:CA	1:148:A:VAL:C	16	5.67	1.93	5.72
(1,306)	1:176:A:ASN:N	1:176:A:ASN:CA	1:176:A:ASN:C	1:177:A:LEU:N	16	5.28	2.88	4.9

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,199)	1:37:A:TRP:N	1:37:A:TRP:CA	1:37:A:TRP:C	1:38:A:ALA:N	15	14.04	3.27	14.08
(1,112)	1:144:A:SER:C	1:145:A:GLU:N	1:145:A:GLU:CA	1:145:A:GLU:C	15	12.86	6.38	14.37
(1,171)	1:229:A:GLY:C	1:230:A:ILE:N	1:230:A:ILE:CA	1:230:A:ILE:C	15	10.04	7.89	8.2
(1,343)	1:236:A:LYS:N	1:236:A:LYS:CA	1:236:A:LYS:C	1:237:A:GLN:N	15	4.73	1.99	5.0
(1,286)	1:148:A:VAL:N	1:148:A:VAL:CA	1:148:A:VAL:C	1:149:A:PRO:N	14	9.09	3.94	8.91
(1,336)	1:228:A:SER:N	1:228:A:SER:CA	1:228:A:SER:C	1:229:A:GLY:N	14	5.58	3.53	5.68
(1,134)	1:169:A:THR:C	1:170:A:THR:N	1:170:A:THR:CA	1:170:A:THR:C	14	5.17	2.53	5.72
(1,266)	1:116:A:HIS:N	1:116:A:HIS:CA	1:116:A:HIS:C	1:117:A:LEU:N	14	2.94	1.28	2.7
(1,59)	1:76:A:VAL:C	1:77:A:ALA:N	1:77:A:ALA:CA	1:77:A:ALA:C	13	6.01	4.85	5.31
(1,342)	1:235:A:ARG:N	1:235:A:ARG:CA	1:235:A:ARG:C	1:236:A:LYS:N	13	4.64	1.96	4.22
(1,172)	1:231:A:ILE:C	1:232:A:TYR:N	1:232:A:TYR:CA	1:232:A:TYR:C	12	9.84	1.94	9.64
(1,15)	1:27:A:LEU:C	1:28:A:ALA:N	1:28:A:ALA:CA	1:28:A:ALA:C	12	5.23	3.49	4.97
(1,156)	1:197:A:GLU:C	1:198:A:CYS:N	1:198:A:CYS:CA	1:198:A:CYS:C	11	3.19	1.76	2.38
(1,185)	1:17:A:ARG:N	1:17:A:ARG:CA	1:17:A:ARG:C	1:18:A:VAL:N	11	2.83	1.21	2.77
(1,232)	1:73:A:ILE:N	1:73:A:ILE:CA	1:73:A:ILE:C	1:74:A:LEU:N	10	3.57	1.02	3.28
(1,270)	1:121:A:THR:N	1:121:A:THR:CA	1:121:A:THR:C	1:122:A:LEU:N	9	8.88	4.0	7.19
(1,274)	1:130:A:PRO:N	1:130:A:PRO:CA	1:130:A:PRO:C	1:131:A:GLU:N	9	4.37	1.04	4.47
(1,23)	1:38:A:ALA:C	1:39:A:PRO:N	1:39:A:PRO:CA	1:39:A:PRO:C	9	2.67	0.07	2.66
(1,7)	1:15:A:LEU:C	1:16:A:ALA:N	1:16:A:ALA:CA	1:16:A:ALA:C	9	2.35	1.21	1.76
(1,260)	1:107:A:GLN:N	1:107:A:GLN:CA	1:107:A:GLN:C	1:108:A:ALA:N	9	2.14	0.75	1.84
(1,233)	1:74:A:LEU:N	1:74:A:LEU:CA	1:74:A:LEU:C	1:75:A:ASP:N	9	1.91	0.84	1.72
(1,64)	1:83:A:VAL:C	1:84:A:ALA:N	1:84:A:ALA:CA	1:84:A:ALA:C	9	1.33	0.23	1.31
(1,334)	1:226:A:PHE:N	1:226:A:PHE:CA	1:226:A:PHE:C	1:227:A:ILE:N	8	3.61	2.22	3.56
(1,212)	1:52:A:ALA:N	1:52:A:ALA:CA	1:52:A:ALA:C	1:53:A:PRO:N	8	3.14	1.0	3.06
(1,308)	1:179:A:TYR:N	1:179:A:TYR:CA	1:179:A:TYR:C	1:180:A:LYS:N	7	3.24	1.23	2.81
(1,58)	1:74:A:LEU:C	1:75:A:ASP:N	1:75:A:ASP:CA	1:75:A:ASP:C	7	2.49	1.41	1.88
(1,282)	1:142:A:ALA:N	1:142:A:ALA:CA	1:142:A:ALA:C	1:143:A:LEU:N	6	10.84	6.19	11.64
(1,333)	1:225:A:GLY:N	1:225:A:GLY:CA	1:225:A:GLY:C	1:226:A:PHE:N	6	8.95	9.72	4.44
(1,96)	1:125:A:GLU:C	1:126:A:PRO:N	1:126:A:PRO:CA	1:126:A:PRO:C	6	5.53	1.93	5.84
(1,153)	1:194:A:GLY:C	1:195:A:VAL:N	1:195:A:VAL:CA	1:195:A:VAL:C	6	2.69	1.18	2.2
(1,75)	1:96:A:GLN:C	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	6	1.91	0.46	1.76
(1,167)	1:224:A:ASP:C	1:225:A:GLY:N	1:225:A:GLY:CA	1:225:A:GLY:C	5	10.51	4.76	10.85
(1,247)	1:91:A:GLY:N	1:91:A:GLY:CA	1:91:A:GLY:C	1:92:A:PHE:N	5	4.09	1.99	3.82
(1,99)	1:129:A:ASP:C	1:130:A:PRO:N	1:130:A:PRO:CA	1:130:A:PRO:C	5	2.99	2.27	1.54
(1,251)	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	1:98:A:VAL:N	5	2.5	1.01	1.9
(1,339)	1:232:A:TYR:N	1:232:A:TYR:CA	1:232:A:TYR:C	1:233:A:LEU:N	4	7.4	1.08	7.02
(1,135)	1:171:A:ARG:C	1:172:A:THR:N	1:172:A:THR:CA	1:172:A:THR:C	4	6.54	1.22	6.64
(1,330)	1:207:A:TRP:N	1:207:A:TRP:CA	1:207:A:TRP:C	1:208:A:GLU:N	4	6.02	4.6	4.82
(1,110)	1:142:A:ALA:C	1:143:A:LEU:N	1:143:A:LEU:CA	1:143:A:LEU:C	4	5.18	1.85	5.05
(1,168)	1:225:A:GLY:C	1:226:A:PHE:N	1:226:A:PHE:CA	1:226:A:PHE:C	4	4.7	2.8	3.58
(1,276)	1:132:A:GLY:N	1:132:A:GLY:CA	1:132:A:GLY:C	1:133:A:THR:N	4	3.94	1.2	4.0
(1,236)	1:78:A:CYS:N	1:78:A:CYS:CA	1:78:A:CYS:C	1:79:A:GLY:N	4	2.76	0.62	3.06
(1,160)	1:201:A:THR:C	1:202:A:GLN:N	1:202:A:GLN:CA	1:202:A:GLN:C	4	1.96	0.75	1.74
(1,111)	1:143:A:LEU:C	1:144:A:SER:N	1:144:A:SER:CA	1:144:A:SER:C	3	24.09	0.48	24.29
(1,97)	1:126:A:PRO:C	1:127:A:LEU:N	1:127:A:LEU:CA	1:127:A:LEU:C	3	13.44	3.25	15.54
(1,164)	1:206:A:HIS:C	1:207:A:TRP:N	1:207:A:TRP:CA	1:207:A:TRP:C	3	5.89	2.39	4.94
(1,98)	1:127:A:LEU:C	1:128:A:PRO:N	1:128:A:PRO:CA	1:128:A:PRO:C	3	4.06	0.22	4.2
(1,297)	1:160:A:THR:N	1:160:A:THR:CA	1:160:A:THR:C	1:161:A:LYS:N	3	3.32	1.21	2.62
(1,3)	1:11:A:LEU:C	1:12:A:PRO:N	1:12:A:PRO:CA	1:12:A:PRO:C	3	2.85	0.97	2.95
(1,25)	1:40:A:GLU:C	1:41:A:TYR:N	1:41:A:TYR:CA	1:41:A:TYR:C	3	2.83	0.66	3.17
(1,325)	1:200:A:VAL:N	1:200:A:VAL:CA	1:200:A:VAL:C	1:201:A:THR:N	3	2.44	0.74	2.14

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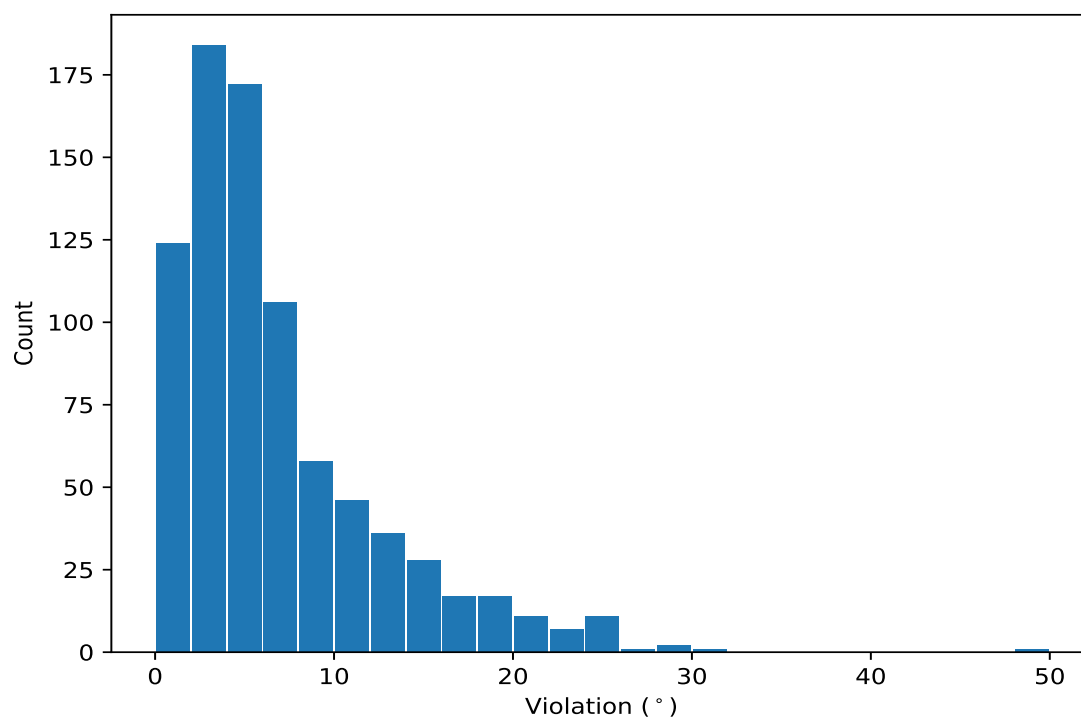
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,34)	1:49:A:LYS:C	1:50:A:TYR:N	1:50:A:TYR:CA	1:50:A:TYR:C	3	2.35	0.1	2.32
(1,224)	1:64:A:PHE:N	1:64:A:PHE:CA	1:64:A:PHE:C	1:65:A:ARG:N	3	2.07	0.86	1.48
(1,324)	1:198:A:CYS:N	1:198:A:CYS:CA	1:198:A:CYS:C	1:199:A:LEU:N	2	11.18	10.02	11.18
(1,331)	1:208:A:GLU:N	1:208:A:GLU:CA	1:208:A:GLU:C	1:209:A:LEU:N	2	7.83	2.71	7.83
(1,109)	1:141:A:GLY:C	1:142:A:ALA:N	1:142:A:ALA:CA	1:142:A:ALA:C	2	7.19	4.5	7.19
(1,157)	1:198:A:CYS:C	1:199:A:LEU:N	1:199:A:LEU:CA	1:199:A:LEU:C	2	5.32	2.36	5.32
(1,129)	1:164:A:GLY:C	1:165:A:LEU:N	1:165:A:LEU:CA	1:165:A:LEU:C	2	4.88	0.01	4.88
(1,215)	1:55:A:LEU:N	1:55:A:LEU:CA	1:55:A:LEU:C	1:56:A:ALA:N	2	4.67	0.99	4.67
(1,192)	1:28:A:ALA:N	1:28:A:ALA:CA	1:28:A:ALA:C	1:29:A:CYS:N	2	4.38	0.59	4.38
(1,114)	1:148:A:VAL:C	1:149:A:PRO:N	1:149:A:PRO:CA	1:149:A:PRO:C	2	3.92	1.2	3.92
(1,210)	1:49:A:LYS:N	1:49:A:LYS:CA	1:49:A:LYS:C	1:50:A:TYR:N	2	3.62	2.39	3.62
(1,332)	1:209:A:LEU:N	1:209:A:LEU:CA	1:209:A:LEU:C	1:210:A:ALA:N	2	3.47	2.1	3.47
(1,190)	1:24:A:ILE:N	1:24:A:ILE:CA	1:24:A:ILE:C	1:25:A:THR:N	2	3.24	0.05	3.24
(1,94)	1:118:A:SER:C	1:119:A:LEU:N	1:119:A:LEU:CA	1:119:A:LEU:C	2	2.94	1.49	2.94
(1,186)	1:18:A:VAL:N	1:18:A:VAL:CA	1:18:A:VAL:C	1:19:A:GLY:N	2	1.5	0.11	1.5

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

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

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

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



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

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

Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,170)	1:227:A:ILE:C	1:228:A:SER:N	1:228:A:SER:CA	1:228:A:SER:C	17	49.81
(1,333)	1:225:A:GLY:N	1:225:A:GLY:CA	1:225:A:GLY:C	1:226:A:PHE:N	17	30.14
(1,237)	1:79:A:GLY:N	1:79:A:GLY:CA	1:79:A:GLY:C	1:80:A:THR:N	20	28.45
(1,237)	1:79:A:GLY:N	1:79:A:GLY:CA	1:79:A:GLY:C	1:80:A:THR:N	7	28.07
(1,171)	1:229:A:GLY:C	1:230:A:ILE:N	1:230:A:ILE:CA	1:230:A:ILE:C	19	26.62
(1,237)	1:79:A:GLY:N	1:79:A:GLY:CA	1:79:A:GLY:C	1:80:A:THR:N	2	25.72
(1,237)	1:79:A:GLY:N	1:79:A:GLY:CA	1:79:A:GLY:C	1:80:A:THR:N	19	25.52
(1,237)	1:79:A:GLY:N	1:79:A:GLY:CA	1:79:A:GLY:C	1:80:A:THR:N	9	25.28
(1,111)	1:143:A:LEU:C	1:144:A:SER:N	1:144:A:SER:CA	1:144:A:SER:C	12	24.55
(1,237)	1:79:A:GLY:N	1:79:A:GLY:CA	1:79:A:GLY:C	1:80:A:THR:N	3	24.54
(1,237)	1:79:A:GLY:N	1:79:A:GLY:CA	1:79:A:GLY:C	1:80:A:THR:N	16	24.53
(1,237)	1:79:A:GLY:N	1:79:A:GLY:CA	1:79:A:GLY:C	1:80:A:THR:N	15	24.45
(1,169)	1:226:A:PHE:C	1:227:A:ILE:N	1:227:A:ILE:CA	1:227:A:ILE:C	1	24.31
(1,111)	1:143:A:LEU:C	1:144:A:SER:N	1:144:A:SER:CA	1:144:A:SER:C	18	24.29
(1,237)	1:79:A:GLY:N	1:79:A:GLY:CA	1:79:A:GLY:C	1:80:A:THR:N	11	24.13
(1,237)	1:79:A:GLY:N	1:79:A:GLY:CA	1:79:A:GLY:C	1:80:A:THR:N	5	24.11
(1,111)	1:143:A:LEU:C	1:144:A:SER:N	1:144:A:SER:CA	1:144:A:SER:C	11	23.43
(1,112)	1:144:A:SER:C	1:145:A:GLU:N	1:145:A:GLU:CA	1:145:A:GLU:C	17	23.2
(1,237)	1:79:A:GLY:N	1:79:A:GLY:CA	1:79:A:GLY:C	1:80:A:THR:N	13	23.18
(1,237)	1:79:A:GLY:N	1:79:A:GLY:CA	1:79:A:GLY:C	1:80:A:THR:N	1	23.15
(1,237)	1:79:A:GLY:N	1:79:A:GLY:CA	1:79:A:GLY:C	1:80:A:THR:N	4	23.05
(1,237)	1:79:A:GLY:N	1:79:A:GLY:CA	1:79:A:GLY:C	1:80:A:THR:N	10	22.9
(1,171)	1:229:A:GLY:C	1:230:A:ILE:N	1:230:A:ILE:CA	1:230:A:ILE:C	9	22.45
(1,237)	1:79:A:GLY:N	1:79:A:GLY:CA	1:79:A:GLY:C	1:80:A:THR:N	8	21.97
(1,283)	1:143:A:LEU:N	1:143:A:LEU:CA	1:143:A:LEU:C	1:144:A:SER:N	17	21.9
(1,283)	1:143:A:LEU:N	1:143:A:LEU:CA	1:143:A:LEU:C	1:144:A:SER:N	20	21.82
(1,237)	1:79:A:GLY:N	1:79:A:GLY:CA	1:79:A:GLY:C	1:80:A:THR:N	6	21.82
(1,237)	1:79:A:GLY:N	1:79:A:GLY:CA	1:79:A:GLY:C	1:80:A:THR:N	17	21.72
(1,171)	1:229:A:GLY:C	1:230:A:ILE:N	1:230:A:ILE:CA	1:230:A:ILE:C	14	21.34
(1,324)	1:198:A:CYS:N	1:198:A:CYS:CA	1:198:A:CYS:C	1:199:A:LEU:N	2	21.2
(1,335)	1:227:A:ILE:N	1:227:A:ILE:CA	1:227:A:ILE:C	1:228:A:SER:N	7	21.16
(1,112)	1:144:A:SER:C	1:145:A:GLU:N	1:145:A:GLU:CA	1:145:A:GLU:C	10	20.6
(1,237)	1:79:A:GLY:N	1:79:A:GLY:CA	1:79:A:GLY:C	1:80:A:THR:N	12	20.55
(1,71)	1:90:A:ARG:C	1:91:A:GLY:N	1:91:A:GLY:CA	1:91:A:GLY:C	1	20.23
(1,283)	1:143:A:LEU:N	1:143:A:LEU:CA	1:143:A:LEU:C	1:144:A:SER:N	5	19.95
(1,282)	1:142:A:ALA:N	1:142:A:ALA:CA	1:142:A:ALA:C	1:143:A:LEU:N	18	19.51
(1,335)	1:227:A:ILE:N	1:227:A:ILE:CA	1:227:A:ILE:C	1:228:A:SER:N	9	19.29
(1,285)	1:145:A:GLU:N	1:145:A:GLU:CA	1:145:A:GLU:C	1:146:A:GLY:N	1	19.07
(1,199)	1:37:A:TRP:N	1:37:A:TRP:CA	1:37:A:TRP:C	1:38:A:ALA:N	5	18.99
(1,199)	1:37:A:TRP:N	1:37:A:TRP:CA	1:37:A:TRP:C	1:38:A:ALA:N	13	18.97
(1,285)	1:145:A:GLU:N	1:145:A:GLU:CA	1:145:A:GLU:C	1:146:A:GLY:N	14	18.9
(1,283)	1:143:A:LEU:N	1:143:A:LEU:CA	1:143:A:LEU:C	1:144:A:SER:N	1	18.87
(1,112)	1:144:A:SER:C	1:145:A:GLU:N	1:145:A:GLU:CA	1:145:A:GLU:C	5	18.81
(1,335)	1:227:A:ILE:N	1:227:A:ILE:CA	1:227:A:ILE:C	1:228:A:SER:N	19	18.72
(1,283)	1:143:A:LEU:N	1:143:A:LEU:CA	1:143:A:LEU:C	1:144:A:SER:N	14	18.7
(1,112)	1:144:A:SER:C	1:145:A:GLU:N	1:145:A:GLU:CA	1:145:A:GLU:C	8	18.56
(1,283)	1:143:A:LEU:N	1:143:A:LEU:CA	1:143:A:LEU:C	1:144:A:SER:N	15	18.55

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,112)	1:144:A:SER:C	1:145:A:GLU:N	1:145:A:GLU:CA	1:145:A:GLU:C	15	18.34
(1,283)	1:143:A:LEU:N	1:143:A:LEU:CA	1:143:A:LEU:C	1:144:A:SER:N	10	18.32
(1,285)	1:145:A:GLU:N	1:145:A:GLU:CA	1:145:A:GLU:C	1:146:A:GLY:N	9	18.26
(1,335)	1:227:A:ILE:N	1:227:A:ILE:CA	1:227:A:ILE:C	1:228:A:SER:N	14	18.23
(1,283)	1:143:A:LEU:N	1:143:A:LEU:CA	1:143:A:LEU:C	1:144:A:SER:N	3	17.49
(1,167)	1:224:A:ASP:C	1:225:A:GLY:N	1:225:A:GLY:CA	1:225:A:GLY:C	17	17.44
(1,199)	1:37:A:TRP:N	1:37:A:TRP:CA	1:37:A:TRP:C	1:38:A:ALA:N	20	17.37
(1,171)	1:229:A:GLY:C	1:230:A:ILE:N	1:230:A:ILE:CA	1:230:A:ILE:C	3	17.14
(1,283)	1:143:A:LEU:N	1:143:A:LEU:CA	1:143:A:LEU:C	1:144:A:SER:N	16	17.11
(1,71)	1:90:A:ARG:C	1:91:A:GLY:N	1:91:A:GLY:CA	1:91:A:GLY:C	16	17.05
(1,169)	1:226:A:PHE:C	1:227:A:ILE:N	1:227:A:ILE:CA	1:227:A:ILE:C	13	16.81
(1,283)	1:143:A:LEU:N	1:143:A:LEU:CA	1:143:A:LEU:C	1:144:A:SER:N	4	16.79
(1,71)	1:90:A:ARG:C	1:91:A:GLY:N	1:91:A:GLY:CA	1:91:A:GLY:C	3	16.57
(1,285)	1:145:A:GLU:N	1:145:A:GLU:CA	1:145:A:GLU:C	1:146:A:GLY:N	19	16.46
(1,112)	1:144:A:SER:C	1:145:A:GLU:N	1:145:A:GLU:CA	1:145:A:GLU:C	6	16.4
(1,59)	1:76:A:VAL:C	1:77:A:ALA:N	1:77:A:ALA:CA	1:77:A:ALA:C	6	16.27
(1,335)	1:227:A:ILE:N	1:227:A:ILE:CA	1:227:A:ILE:C	1:228:A:SER:N	1	16.25
(1,283)	1:143:A:LEU:N	1:143:A:LEU:CA	1:143:A:LEU:C	1:144:A:SER:N	13	16.17
(1,283)	1:143:A:LEU:N	1:143:A:LEU:CA	1:143:A:LEU:C	1:144:A:SER:N	2	16.07
(1,71)	1:90:A:ARG:C	1:91:A:GLY:N	1:91:A:GLY:CA	1:91:A:GLY:C	11	16.04
(1,336)	1:228:A:SER:N	1:228:A:SER:CA	1:228:A:SER:C	1:229:A:GLY:N	17	16.03
(1,97)	1:126:A:PRO:C	1:127:A:LEU:N	1:127:A:LEU:CA	1:127:A:LEU:C	14	15.93
(1,270)	1:121:A:THR:N	1:121:A:THR:CA	1:121:A:THR:C	1:122:A:LEU:N	11	15.92
(1,199)	1:37:A:TRP:N	1:37:A:TRP:CA	1:37:A:TRP:C	1:38:A:ALA:N	2	15.89
(1,71)	1:90:A:ARG:C	1:91:A:GLY:N	1:91:A:GLY:CA	1:91:A:GLY:C	10	15.88
(1,282)	1:142:A:ALA:N	1:142:A:ALA:CA	1:142:A:ALA:C	1:143:A:LEU:N	12	15.73
(1,335)	1:227:A:ILE:N	1:227:A:ILE:CA	1:227:A:ILE:C	1:228:A:SER:N	2	15.59
(1,97)	1:126:A:PRO:C	1:127:A:LEU:N	1:127:A:LEU:CA	1:127:A:LEU:C	19	15.54
(1,199)	1:37:A:TRP:N	1:37:A:TRP:CA	1:37:A:TRP:C	1:38:A:ALA:N	6	15.53
(1,71)	1:90:A:ARG:C	1:91:A:GLY:N	1:91:A:GLY:CA	1:91:A:GLY:C	5	15.52
(1,71)	1:90:A:ARG:C	1:91:A:GLY:N	1:91:A:GLY:CA	1:91:A:GLY:C	15	15.41
(1,199)	1:37:A:TRP:N	1:37:A:TRP:CA	1:37:A:TRP:C	1:38:A:ALA:N	10	15.3
(1,169)	1:226:A:PHE:C	1:227:A:ILE:N	1:227:A:ILE:CA	1:227:A:ILE:C	3	15.22
(1,71)	1:90:A:ARG:C	1:91:A:GLY:N	1:91:A:GLY:CA	1:91:A:GLY:C	19	14.96
(1,285)	1:145:A:GLU:N	1:145:A:GLU:CA	1:145:A:GLU:C	1:146:A:GLY:N	3	14.95
(1,112)	1:144:A:SER:C	1:145:A:GLU:N	1:145:A:GLU:CA	1:145:A:GLU:C	16	14.91
(1,71)	1:90:A:ARG:C	1:91:A:GLY:N	1:91:A:GLY:CA	1:91:A:GLY:C	13	14.87
(1,199)	1:37:A:TRP:N	1:37:A:TRP:CA	1:37:A:TRP:C	1:38:A:ALA:N	4	14.71
(1,270)	1:121:A:THR:N	1:121:A:THR:CA	1:121:A:THR:C	1:122:A:LEU:N	9	14.62
(1,285)	1:145:A:GLU:N	1:145:A:GLU:CA	1:145:A:GLU:C	1:146:A:GLY:N	6	14.56
(1,59)	1:76:A:VAL:C	1:77:A:ALA:N	1:77:A:ALA:CA	1:77:A:ALA:C	15	14.53
(1,71)	1:90:A:ARG:C	1:91:A:GLY:N	1:91:A:GLY:CA	1:91:A:GLY:C	4	14.46
(1,286)	1:148:A:VAL:N	1:148:A:VAL:CA	1:148:A:VAL:C	1:149:A:PRO:N	15	14.38
(1,169)	1:226:A:PHE:C	1:227:A:ILE:N	1:227:A:ILE:CA	1:227:A:ILE:C	5	14.37
(1,112)	1:144:A:SER:C	1:145:A:GLU:N	1:145:A:GLU:CA	1:145:A:GLU:C	4	14.37
(1,282)	1:142:A:ALA:N	1:142:A:ALA:CA	1:142:A:ALA:C	1:143:A:LEU:N	11	14.35
(1,283)	1:143:A:LEU:N	1:143:A:LEU:CA	1:143:A:LEU:C	1:144:A:SER:N	6	14.34
(1,286)	1:148:A:VAL:N	1:148:A:VAL:CA	1:148:A:VAL:C	1:149:A:PRO:N	5	14.1
(1,199)	1:37:A:TRP:N	1:37:A:TRP:CA	1:37:A:TRP:C	1:38:A:ALA:N	3	14.08
(1,169)	1:226:A:PHE:C	1:227:A:ILE:N	1:227:A:ILE:CA	1:227:A:ILE:C	19	13.98
(1,335)	1:227:A:ILE:N	1:227:A:ILE:CA	1:227:A:ILE:C	1:228:A:SER:N	17	13.9

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,285)	1:145:A:GLU:N	1:145:A:GLU:CA	1:145:A:GLU:C	1:146:A:GLY:N	20	13.88
(1,285)	1:145:A:GLU:N	1:145:A:GLU:CA	1:145:A:GLU:C	1:146:A:GLY:N	2	13.86
(1,285)	1:145:A:GLU:N	1:145:A:GLU:CA	1:145:A:GLU:C	1:146:A:GLY:N	7	13.72
(1,41)	1:56:A:ALA:C	1:57:A:VAL:N	1:57:A:VAL:CA	1:57:A:VAL:C	18	13.71
(1,112)	1:144:A:SER:C	1:145:A:GLU:N	1:145:A:GLU:CA	1:145:A:GLU:C	14	13.57
(1,199)	1:37:A:TRP:N	1:37:A:TRP:CA	1:37:A:TRP:C	1:38:A:ALA:N	7	13.52
(1,283)	1:143:A:LEU:N	1:143:A:LEU:CA	1:143:A:LEU:C	1:144:A:SER:N	9	13.44
(1,283)	1:143:A:LEU:N	1:143:A:LEU:CA	1:143:A:LEU:C	1:144:A:SER:N	7	13.4
(1,285)	1:145:A:GLU:N	1:145:A:GLU:CA	1:145:A:GLU:C	1:146:A:GLY:N	17	13.26
(1,330)	1:207:A:TRP:N	1:207:A:TRP:CA	1:207:A:TRP:C	1:208:A:GLU:N	6	13.24
(1,285)	1:145:A:GLU:N	1:145:A:GLU:CA	1:145:A:GLU:C	1:146:A:GLY:N	15	13.22
(1,283)	1:143:A:LEU:N	1:143:A:LEU:CA	1:143:A:LEU:C	1:144:A:SER:N	8	13.19
(1,152)	1:192:A:ARG:C	1:193:A:ALA:N	1:193:A:ALA:CA	1:193:A:ALA:C	18	13.19
(1,286)	1:148:A:VAL:N	1:148:A:VAL:CA	1:148:A:VAL:C	1:149:A:PRO:N	9	13.16
(1,199)	1:37:A:TRP:N	1:37:A:TRP:CA	1:37:A:TRP:C	1:38:A:ALA:N	11	13.08
(1,172)	1:231:A:ILE:C	1:232:A:TYR:N	1:232:A:TYR:CA	1:232:A:TYR:C	2	13.05
(1,335)	1:227:A:ILE:N	1:227:A:ILE:CA	1:227:A:ILE:C	1:228:A:SER:N	6	13.04
(1,199)	1:37:A:TRP:N	1:37:A:TRP:CA	1:37:A:TRP:C	1:38:A:ALA:N	18	12.81
(1,285)	1:145:A:GLU:N	1:145:A:GLU:CA	1:145:A:GLU:C	1:146:A:GLY:N	16	12.79
(1,286)	1:148:A:VAL:N	1:148:A:VAL:CA	1:148:A:VAL:C	1:149:A:PRO:N	7	12.76
(1,283)	1:143:A:LEU:N	1:143:A:LEU:CA	1:143:A:LEU:C	1:144:A:SER:N	19	12.73
(1,36)	1:51:A:ARG:C	1:52:A:ALA:N	1:52:A:ALA:CA	1:52:A:ALA:C	20	12.73
(1,71)	1:90:A:ARG:C	1:91:A:GLY:N	1:91:A:GLY:CA	1:91:A:GLY:C	2	12.65
(1,169)	1:226:A:PHE:C	1:227:A:ILE:N	1:227:A:ILE:CA	1:227:A:ILE:C	2	12.62
(1,172)	1:231:A:ILE:C	1:232:A:TYR:N	1:232:A:TYR:CA	1:232:A:TYR:C	7	12.61
(1,102)	1:133:A:THR:C	1:134:A:PHE:N	1:134:A:PHE:CA	1:134:A:PHE:C	16	12.5
(1,152)	1:192:A:ARG:C	1:193:A:ALA:N	1:193:A:ALA:CA	1:193:A:ALA:C	3	12.49
(1,199)	1:37:A:TRP:N	1:37:A:TRP:CA	1:37:A:TRP:C	1:38:A:ALA:N	15	12.41
(1,199)	1:37:A:TRP:N	1:37:A:TRP:CA	1:37:A:TRP:C	1:38:A:ALA:N	8	12.4
(1,36)	1:51:A:ARG:C	1:52:A:ALA:N	1:52:A:ALA:CA	1:52:A:ALA:C	1	12.28
(1,169)	1:226:A:PHE:C	1:227:A:ILE:N	1:227:A:ILE:CA	1:227:A:ILE:C	4	12.27
(1,15)	1:27:A:LEU:C	1:28:A:ALA:N	1:28:A:ALA:CA	1:28:A:ALA:C	6	12.26
(1,71)	1:90:A:ARG:C	1:91:A:GLY:N	1:91:A:GLY:CA	1:91:A:GLY:C	8	12.2
(1,285)	1:145:A:GLU:N	1:145:A:GLU:CA	1:145:A:GLU:C	1:146:A:GLY:N	13	12.09
(1,71)	1:90:A:ARG:C	1:91:A:GLY:N	1:91:A:GLY:CA	1:91:A:GLY:C	12	11.95
(1,167)	1:224:A:ASP:C	1:225:A:GLY:N	1:225:A:GLY:CA	1:225:A:GLY:C	1	11.9
(1,169)	1:226:A:PHE:C	1:227:A:ILE:N	1:227:A:ILE:CA	1:227:A:ILE:C	14	11.86
(1,15)	1:27:A:LEU:C	1:28:A:ALA:N	1:28:A:ALA:CA	1:28:A:ALA:C	11	11.86
(1,335)	1:227:A:ILE:N	1:227:A:ILE:CA	1:227:A:ILE:C	1:228:A:SER:N	3	11.77
(1,102)	1:133:A:THR:C	1:134:A:PHE:N	1:134:A:PHE:CA	1:134:A:PHE:C	11	11.73
(1,109)	1:141:A:GLY:C	1:142:A:ALA:N	1:142:A:ALA:CA	1:142:A:ALA:C	15	11.69
(1,102)	1:133:A:THR:C	1:134:A:PHE:N	1:134:A:PHE:CA	1:134:A:PHE:C	3	11.6
(1,172)	1:231:A:ILE:C	1:232:A:TYR:N	1:232:A:TYR:CA	1:232:A:TYR:C	1	11.41
(1,285)	1:145:A:GLU:N	1:145:A:GLU:CA	1:145:A:GLU:C	1:146:A:GLY:N	8	11.38
(1,335)	1:227:A:ILE:N	1:227:A:ILE:CA	1:227:A:ILE:C	1:228:A:SER:N	4	11.34
(1,152)	1:192:A:ARG:C	1:193:A:ALA:N	1:193:A:ALA:CA	1:193:A:ALA:C	11	11.34
(1,214)	1:54:A:ARG:N	1:54:A:ARG:CA	1:54:A:ARG:C	1:55:A:LEU:N	1	11.3
(1,171)	1:229:A:GLY:C	1:230:A:ILE:N	1:230:A:ILE:CA	1:230:A:ILE:C	8	11.14
(1,335)	1:227:A:ILE:N	1:227:A:ILE:CA	1:227:A:ILE:C	1:228:A:SER:N	15	11.12
(1,335)	1:227:A:ILE:N	1:227:A:ILE:CA	1:227:A:ILE:C	1:228:A:SER:N	10	11.09
(1,335)	1:227:A:ILE:N	1:227:A:ILE:CA	1:227:A:ILE:C	1:228:A:SER:N	16	11.06

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,152)	1:192:A:ARG:C	1:193:A:ALA:N	1:193:A:ALA:CA	1:193:A:ALA:C	6	11.05
(1,335)	1:227:A:ILE:N	1:227:A:ILE:CA	1:227:A:ILE:C	1:228:A:SER:N	11	11.02
(1,335)	1:227:A:ILE:N	1:227:A:ILE:CA	1:227:A:ILE:C	1:228:A:SER:N	5	11.01
(1,342)	1:235:A:ARG:N	1:235:A:ARG:CA	1:235:A:ARG:C	1:236:A:LYS:N	13	10.99
(1,335)	1:227:A:ILE:N	1:227:A:ILE:CA	1:227:A:ILE:C	1:228:A:SER:N	20	10.98
(1,279)	1:138:A:ILE:N	1:138:A:ILE:CA	1:138:A:ILE:C	1:139:A:ILE:N	7	10.94
(1,167)	1:224:A:ASP:C	1:225:A:GLY:N	1:225:A:GLY:CA	1:225:A:GLY:C	11	10.85
(1,286)	1:148:A:VAL:N	1:148:A:VAL:CA	1:148:A:VAL:C	1:149:A:PRO:N	20	10.84
(1,102)	1:133:A:THR:C	1:134:A:PHE:N	1:134:A:PHE:CA	1:134:A:PHE:C	6	10.82
(1,335)	1:227:A:ILE:N	1:227:A:ILE:CA	1:227:A:ILE:C	1:228:A:SER:N	12	10.8
(1,172)	1:231:A:ILE:C	1:232:A:TYR:N	1:232:A:TYR:CA	1:232:A:TYR:C	20	10.74
(1,102)	1:133:A:THR:C	1:134:A:PHE:N	1:134:A:PHE:CA	1:134:A:PHE:C	5	10.72
(1,306)	1:176:A:ASN:N	1:176:A:ASN:CA	1:176:A:ASN:C	1:177:A:LEU:N	13	10.61
(1,331)	1:208:A:GLU:N	1:208:A:GLU:CA	1:208:A:GLU:C	1:209:A:LEU:N	13	10.54
(1,171)	1:229:A:GLY:C	1:230:A:ILE:N	1:230:A:ILE:CA	1:230:A:ILE:C	4	10.5
(1,285)	1:145:A:GLU:N	1:145:A:GLU:CA	1:145:A:GLU:C	1:146:A:GLY:N	4	10.47
(1,59)	1:76:A:VAL:C	1:77:A:ALA:N	1:77:A:ALA:CA	1:77:A:ALA:C	4	10.47
(1,172)	1:231:A:ILE:C	1:232:A:TYR:N	1:232:A:TYR:CA	1:232:A:TYR:C	18	10.46
(1,270)	1:121:A:THR:N	1:121:A:THR:CA	1:121:A:THR:C	1:122:A:LEU:N	17	10.43
(1,152)	1:192:A:ARG:C	1:193:A:ALA:N	1:193:A:ALA:CA	1:193:A:ALA:C	13	10.43
(1,152)	1:192:A:ARG:C	1:193:A:ALA:N	1:193:A:ALA:CA	1:193:A:ALA:C	8	10.35
(1,335)	1:227:A:ILE:N	1:227:A:ILE:CA	1:227:A:ILE:C	1:228:A:SER:N	8	10.31
(1,270)	1:121:A:THR:N	1:121:A:THR:CA	1:121:A:THR:C	1:122:A:LEU:N	16	10.28
(1,102)	1:133:A:THR:C	1:134:A:PHE:N	1:134:A:PHE:CA	1:134:A:PHE:C	19	10.27
(1,285)	1:145:A:GLU:N	1:145:A:GLU:CA	1:145:A:GLU:C	1:146:A:GLY:N	10	10.21
(1,211)	1:51:A:ARG:N	1:51:A:ARG:CA	1:51:A:ARG:C	1:52:A:ALA:N	18	10.17
(1,102)	1:133:A:THR:C	1:134:A:PHE:N	1:134:A:PHE:CA	1:134:A:PHE:C	18	10.09
(1,36)	1:51:A:ARG:C	1:52:A:ALA:N	1:52:A:ALA:CA	1:52:A:ALA:C	5	10.04
(1,169)	1:226:A:PHE:C	1:227:A:ILE:N	1:227:A:ILE:CA	1:227:A:ILE:C	18	10.03
(1,286)	1:148:A:VAL:N	1:148:A:VAL:CA	1:148:A:VAL:C	1:149:A:PRO:N	17	9.99
(1,214)	1:54:A:ARG:N	1:54:A:ARG:CA	1:54:A:ARG:C	1:55:A:LEU:N	9	9.97
(1,152)	1:192:A:ARG:C	1:193:A:ALA:N	1:193:A:ALA:CA	1:193:A:ALA:C	12	9.95
(1,285)	1:145:A:GLU:N	1:145:A:GLU:CA	1:145:A:GLU:C	1:146:A:GLY:N	5	9.94
(1,169)	1:226:A:PHE:C	1:227:A:ILE:N	1:227:A:ILE:CA	1:227:A:ILE:C	20	9.79
(1,152)	1:192:A:ARG:C	1:193:A:ALA:N	1:193:A:ALA:CA	1:193:A:ALA:C	14	9.79
(1,167)	1:224:A:ASP:C	1:225:A:GLY:N	1:225:A:GLY:CA	1:225:A:GLY:C	20	9.75
(1,134)	1:169:A:THR:C	1:170:A:THR:N	1:170:A:THR:CA	1:170:A:THR:C	1	9.74
(1,171)	1:229:A:GLY:C	1:230:A:ILE:N	1:230:A:ILE:CA	1:230:A:ILE:C	16	9.69
(1,199)	1:37:A:TRP:N	1:37:A:TRP:CA	1:37:A:TRP:C	1:38:A:ALA:N	14	9.65
(1,172)	1:231:A:ILE:C	1:232:A:TYR:N	1:232:A:TYR:CA	1:232:A:TYR:C	9	9.65
(1,172)	1:231:A:ILE:C	1:232:A:TYR:N	1:232:A:TYR:CA	1:232:A:TYR:C	16	9.63
(1,306)	1:176:A:ASN:N	1:176:A:ASN:CA	1:176:A:ASN:C	1:177:A:LEU:N	8	9.48
(1,168)	1:225:A:GLY:C	1:226:A:PHE:N	1:226:A:PHE:CA	1:226:A:PHE:C	13	9.44
(1,172)	1:231:A:ILE:C	1:232:A:TYR:N	1:232:A:TYR:CA	1:232:A:TYR:C	17	9.43
(1,343)	1:236:A:LYS:N	1:236:A:LYS:CA	1:236:A:LYS:C	1:237:A:GLN:N	18	9.4
(1,214)	1:54:A:ARG:N	1:54:A:ARG:CA	1:54:A:ARG:C	1:55:A:LEU:N	14	9.33
(1,113)	1:147:A:GLN:C	1:148:A:VAL:N	1:148:A:VAL:CA	1:148:A:VAL:C	20	9.26
(1,152)	1:192:A:ARG:C	1:193:A:ALA:N	1:193:A:ALA:CA	1:193:A:ALA:C	17	9.24
(1,164)	1:206:A:HIS:C	1:207:A:TRP:N	1:207:A:TRP:CA	1:207:A:TRP:C	6	9.17
(1,333)	1:225:A:GLY:N	1:225:A:GLY:CA	1:225:A:GLY:C	1:226:A:PHE:N	13	9.14
(1,71)	1:90:A:ARG:C	1:91:A:GLY:N	1:91:A:GLY:CA	1:91:A:GLY:C	9	9.14

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,339)	1:232:A:TYR:N	1:232:A:TYR:CA	1:232:A:TYR:C	1:233:A:LEU:N	4	9.12
(1,286)	1:148:A:VAL:N	1:148:A:VAL:CA	1:148:A:VAL:C	1:149:A:PRO:N	4	9.11
(1,214)	1:54:A:ARG:N	1:54:A:ARG:CA	1:54:A:ARG:C	1:55:A:LEU:N	12	9.09
(1,36)	1:51:A:ARG:C	1:52:A:ALA:N	1:52:A:ALA:CA	1:52:A:ALA:C	12	9.09
(1,172)	1:231:A:ILE:C	1:232:A:TYR:N	1:232:A:TYR:CA	1:232:A:TYR:C	11	9.08
(1,102)	1:133:A:THR:C	1:134:A:PHE:N	1:134:A:PHE:CA	1:134:A:PHE:C	12	9.08
(1,152)	1:192:A:ARG:C	1:193:A:ALA:N	1:193:A:ALA:CA	1:193:A:ALA:C	4	9.01
(1,172)	1:231:A:ILE:C	1:232:A:TYR:N	1:232:A:TYR:CA	1:232:A:TYR:C	10	8.94
(1,112)	1:144:A:SER:C	1:145:A:GLU:N	1:145:A:GLU:CA	1:145:A:GLU:C	7	8.94
(1,282)	1:142:A:ALA:N	1:142:A:ALA:CA	1:142:A:ALA:C	1:143:A:LEU:N	10	8.92
(1,73)	1:94:A:GLN:C	1:95:A:VAL:N	1:95:A:VAL:CA	1:95:A:VAL:C	6	8.91
(1,97)	1:126:A:PRO:C	1:127:A:LEU:N	1:127:A:LEU:CA	1:127:A:LEU:C	2	8.85
(1,214)	1:54:A:ARG:N	1:54:A:ARG:CA	1:54:A:ARG:C	1:55:A:LEU:N	7	8.81
(1,165)	1:207:A:TRP:C	1:208:A:GLU:N	1:208:A:GLU:CA	1:208:A:GLU:C	6	8.76
(1,306)	1:176:A:ASN:N	1:176:A:ASN:CA	1:176:A:ASN:C	1:177:A:LEU:N	20	8.73
(1,102)	1:133:A:THR:C	1:134:A:PHE:N	1:134:A:PHE:CA	1:134:A:PHE:C	1	8.73
(1,286)	1:148:A:VAL:N	1:148:A:VAL:CA	1:148:A:VAL:C	1:149:A:PRO:N	16	8.72
(1,214)	1:54:A:ARG:N	1:54:A:ARG:CA	1:54:A:ARG:C	1:55:A:LEU:N	19	8.72
(1,40)	1:55:A:LEU:C	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	1	8.72
(1,102)	1:133:A:THR:C	1:134:A:PHE:N	1:134:A:PHE:CA	1:134:A:PHE:C	17	8.68
(1,286)	1:148:A:VAL:N	1:148:A:VAL:CA	1:148:A:VAL:C	1:149:A:PRO:N	3	8.61
(1,73)	1:94:A:GLN:C	1:95:A:VAL:N	1:95:A:VAL:CA	1:95:A:VAL:C	5	8.59
(1,286)	1:148:A:VAL:N	1:148:A:VAL:CA	1:148:A:VAL:C	1:149:A:PRO:N	1	8.53
(1,134)	1:169:A:THR:C	1:170:A:THR:N	1:170:A:THR:CA	1:170:A:THR:C	14	8.51
(1,169)	1:226:A:PHE:C	1:227:A:ILE:N	1:227:A:ILE:CA	1:227:A:ILE:C	16	8.42
(1,73)	1:94:A:GLN:C	1:95:A:VAL:N	1:95:A:VAL:CA	1:95:A:VAL:C	19	8.38
(1,113)	1:147:A:GLN:C	1:148:A:VAL:N	1:148:A:VAL:CA	1:148:A:VAL:C	4	8.37
(1,10)	1:18:A:VAL:C	1:19:A:GLY:N	1:19:A:GLY:CA	1:19:A:GLY:C	9	8.37
(1,36)	1:51:A:ARG:C	1:52:A:ALA:N	1:52:A:ALA:CA	1:52:A:ALA:C	3	8.33
(1,286)	1:148:A:VAL:N	1:148:A:VAL:CA	1:148:A:VAL:C	1:149:A:PRO:N	13	8.32
(1,336)	1:228:A:SER:N	1:228:A:SER:CA	1:228:A:SER:C	1:229:A:GLY:N	15	8.26
(1,171)	1:229:A:GLY:C	1:230:A:ILE:N	1:230:A:ILE:CA	1:230:A:ILE:C	12	8.2
(1,306)	1:176:A:ASN:N	1:176:A:ASN:CA	1:176:A:ASN:C	1:177:A:LEU:N	14	8.13
(1,135)	1:171:A:ARG:C	1:172:A:THR:N	1:172:A:THR:CA	1:172:A:THR:C	15	8.11
(1,113)	1:147:A:GLN:C	1:148:A:VAL:N	1:148:A:VAL:CA	1:148:A:VAL:C	7	8.1
(1,169)	1:226:A:PHE:C	1:227:A:ILE:N	1:227:A:ILE:CA	1:227:A:ILE:C	8	8.03
(1,169)	1:226:A:PHE:C	1:227:A:ILE:N	1:227:A:ILE:CA	1:227:A:ILE:C	15	7.95
(1,214)	1:54:A:ARG:N	1:54:A:ARG:CA	1:54:A:ARG:C	1:55:A:LEU:N	11	7.92
(1,56)	1:72:A:LEU:C	1:73:A:ILE:N	1:73:A:ILE:CA	1:73:A:ILE:C	20	7.88
(1,169)	1:226:A:PHE:C	1:227:A:ILE:N	1:227:A:ILE:CA	1:227:A:ILE:C	12	7.84
(1,169)	1:226:A:PHE:C	1:227:A:ILE:N	1:227:A:ILE:CA	1:227:A:ILE:C	11	7.79
(1,102)	1:133:A:THR:C	1:134:A:PHE:N	1:134:A:PHE:CA	1:134:A:PHE:C	15	7.79
(1,73)	1:94:A:GLN:C	1:95:A:VAL:N	1:95:A:VAL:CA	1:95:A:VAL:C	8	7.79
(1,157)	1:198:A:CYS:C	1:199:A:LEU:N	1:199:A:LEU:CA	1:199:A:LEU:C	3	7.68
(1,40)	1:55:A:LEU:C	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	2	7.68
(1,193)	1:29:A:CYS:N	1:29:A:CYS:CA	1:29:A:CYS:C	1:30:A:LYS:N	9	7.66
(1,343)	1:236:A:LYS:N	1:236:A:LYS:CA	1:236:A:LYS:C	1:237:A:GLN:N	9	7.61
(1,214)	1:54:A:ARG:N	1:54:A:ARG:CA	1:54:A:ARG:C	1:55:A:LEU:N	5	7.6
(1,193)	1:29:A:CYS:N	1:29:A:CYS:CA	1:29:A:CYS:C	1:30:A:LYS:N	20	7.57
(1,73)	1:94:A:GLN:C	1:95:A:VAL:N	1:95:A:VAL:CA	1:95:A:VAL:C	12	7.57
(1,214)	1:54:A:ARG:N	1:54:A:ARG:CA	1:54:A:ARG:C	1:55:A:LEU:N	17	7.54

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,110)	1:142:A:ALA:C	1:143:A:LEU:N	1:143:A:LEU:CA	1:143:A:LEU:C	12	7.53
(1,96)	1:125:A:GLU:C	1:126:A:PRO:N	1:126:A:PRO:CA	1:126:A:PRO:C	5	7.52
(1,59)	1:76:A:VAL:C	1:77:A:ALA:N	1:77:A:ALA:CA	1:77:A:ALA:C	10	7.52
(1,339)	1:232:A:TYR:N	1:232:A:TYR:CA	1:232:A:TYR:C	1:233:A:LEU:N	8	7.5
(1,214)	1:54:A:ARG:N	1:54:A:ARG:CA	1:54:A:ARG:C	1:55:A:LEU:N	13	7.49
(1,102)	1:133:A:THR:C	1:134:A:PHE:N	1:134:A:PHE:CA	1:134:A:PHE:C	10	7.46
(1,56)	1:72:A:LEU:C	1:73:A:ILE:N	1:73:A:ILE:CA	1:73:A:ILE:C	2	7.42
(1,96)	1:125:A:GLU:C	1:126:A:PRO:N	1:126:A:PRO:CA	1:126:A:PRO:C	15	7.4
(1,99)	1:129:A:ASP:C	1:130:A:PRO:N	1:130:A:PRO:CA	1:130:A:PRO:C	9	7.37
(1,336)	1:228:A:SER:N	1:228:A:SER:CA	1:228:A:SER:C	1:229:A:GLY:N	12	7.32
(1,71)	1:90:A:ARG:C	1:91:A:GLY:N	1:91:A:GLY:CA	1:91:A:GLY:C	6	7.32
(1,279)	1:138:A:ILE:N	1:138:A:ILE:CA	1:138:A:ILE:C	1:139:A:ILE:N	14	7.31
(1,40)	1:55:A:LEU:C	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	8	7.26
(1,40)	1:55:A:LEU:C	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	19	7.22
(1,306)	1:176:A:ASN:N	1:176:A:ASN:CA	1:176:A:ASN:C	1:177:A:LEU:N	19	7.2
(1,270)	1:121:A:THR:N	1:121:A:THR:CA	1:121:A:THR:C	1:122:A:LEU:N	12	7.19
(1,214)	1:54:A:ARG:N	1:54:A:ARG:CA	1:54:A:ARG:C	1:55:A:LEU:N	10	7.18
(1,284)	1:144:A:SER:N	1:144:A:SER:CA	1:144:A:SER:C	1:145:A:GLU:N	9	7.15
(1,56)	1:72:A:LEU:C	1:73:A:ILE:N	1:73:A:ILE:CA	1:73:A:ILE:C	4	7.15
(1,102)	1:133:A:THR:C	1:134:A:PHE:N	1:134:A:PHE:CA	1:134:A:PHE:C	13	7.14
(1,334)	1:226:A:PHE:N	1:226:A:PHE:CA	1:226:A:PHE:C	1:227:A:ILE:N	16	7.11
(1,134)	1:169:A:THR:C	1:170:A:THR:N	1:170:A:THR:CA	1:170:A:THR:C	9	7.1
(1,214)	1:54:A:ARG:N	1:54:A:ARG:CA	1:54:A:ARG:C	1:55:A:LEU:N	4	7.09
(1,214)	1:54:A:ARG:N	1:54:A:ARG:CA	1:54:A:ARG:C	1:55:A:LEU:N	8	7.09
(1,214)	1:54:A:ARG:N	1:54:A:ARG:CA	1:54:A:ARG:C	1:55:A:LEU:N	3	7.08
(1,152)	1:192:A:ARG:C	1:193:A:ALA:N	1:193:A:ALA:CA	1:193:A:ALA:C	1	7.05
(1,73)	1:94:A:GLN:C	1:95:A:VAL:N	1:95:A:VAL:CA	1:95:A:VAL:C	13	7.05
(1,135)	1:171:A:ARG:C	1:172:A:THR:N	1:172:A:THR:CA	1:172:A:THR:C	4	7.03
(1,102)	1:133:A:THR:C	1:134:A:PHE:N	1:134:A:PHE:CA	1:134:A:PHE:C	14	7.01
(1,156)	1:197:A:GLU:C	1:198:A:CYS:N	1:198:A:CYS:CA	1:198:A:CYS:C	14	7.0
(1,113)	1:147:A:GLN:C	1:148:A:VAL:N	1:148:A:VAL:CA	1:148:A:VAL:C	6	6.98
(1,40)	1:55:A:LEU:C	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	3	6.89
(1,35)	1:50:A:TYR:C	1:51:A:ARG:N	1:51:A:ARG:CA	1:51:A:ARG:C	18	6.86
(1,336)	1:228:A:SER:N	1:228:A:SER:CA	1:228:A:SER:C	1:229:A:GLY:N	14	6.79
(1,134)	1:169:A:THR:C	1:170:A:THR:N	1:170:A:THR:CA	1:170:A:THR:C	7	6.79
(1,96)	1:125:A:GLU:C	1:126:A:PRO:N	1:126:A:PRO:CA	1:126:A:PRO:C	6	6.79
(1,172)	1:231:A:ILE:C	1:232:A:TYR:N	1:232:A:TYR:CA	1:232:A:TYR:C	5	6.75
(1,152)	1:192:A:ARG:C	1:193:A:ALA:N	1:193:A:ALA:CA	1:193:A:ALA:C	9	6.74
(1,237)	1:79:A:GLY:N	1:79:A:GLY:CA	1:79:A:GLY:C	1:80:A:THR:N	18	6.7
(1,169)	1:226:A:PHE:C	1:227:A:ILE:N	1:227:A:ILE:CA	1:227:A:ILE:C	10	6.68
(1,193)	1:29:A:CYS:N	1:29:A:CYS:CA	1:29:A:CYS:C	1:30:A:LYS:N	13	6.65
(1,56)	1:72:A:LEU:C	1:73:A:ILE:N	1:73:A:ILE:CA	1:73:A:ILE:C	15	6.61
(1,330)	1:207:A:TRP:N	1:207:A:TRP:CA	1:207:A:TRP:C	1:208:A:GLU:N	18	6.6
(1,61)	1:80:A:THR:C	1:81:A:GLY:N	1:81:A:GLY:CA	1:81:A:GLY:C	15	6.58
(1,59)	1:76:A:VAL:C	1:77:A:ALA:N	1:77:A:ALA:CA	1:77:A:ALA:C	7	6.58
(1,56)	1:72:A:LEU:C	1:73:A:ILE:N	1:73:A:ILE:CA	1:73:A:ILE:C	12	6.55
(1,339)	1:232:A:TYR:N	1:232:A:TYR:CA	1:232:A:TYR:C	1:233:A:LEU:N	3	6.53
(1,71)	1:90:A:ARG:C	1:91:A:GLY:N	1:91:A:GLY:CA	1:91:A:GLY:C	7	6.49
(1,270)	1:121:A:THR:N	1:121:A:THR:CA	1:121:A:THR:C	1:122:A:LEU:N	18	6.48
(1,134)	1:169:A:THR:C	1:170:A:THR:N	1:170:A:THR:CA	1:170:A:THR:C	20	6.48
(1,306)	1:176:A:ASN:N	1:176:A:ASN:CA	1:176:A:ASN:C	1:177:A:LEU:N	11	6.47

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,247)	1:91:A:GLY:N	1:91:A:GLY:CA	1:91:A:GLY:C	1:92:A:PHE:N	9	6.46
(1,61)	1:80:A:THR:C	1:81:A:GLY:N	1:81:A:GLY:CA	1:81:A:GLY:C	11	6.46
(1,10)	1:18:A:VAL:C	1:19:A:GLY:N	1:19:A:GLY:CA	1:19:A:GLY:C	18	6.46
(1,339)	1:232:A:TYR:N	1:232:A:TYR:CA	1:232:A:TYR:C	1:233:A:LEU:N	12	6.45
(1,214)	1:54:A:ARG:N	1:54:A:ARG:CA	1:54:A:ARG:C	1:55:A:LEU:N	15	6.44
(1,40)	1:55:A:LEU:C	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	4	6.42
(1,56)	1:72:A:LEU:C	1:73:A:ILE:N	1:73:A:ILE:CA	1:73:A:ILE:C	7	6.41
(1,113)	1:147:A:GLN:C	1:148:A:VAL:N	1:148:A:VAL:CA	1:148:A:VAL:C	10	6.4
(1,110)	1:142:A:ALA:C	1:143:A:LEU:N	1:143:A:LEU:CA	1:143:A:LEU:C	11	6.4
(1,214)	1:54:A:ARG:N	1:54:A:ARG:CA	1:54:A:ARG:C	1:55:A:LEU:N	6	6.38
(1,214)	1:54:A:ARG:N	1:54:A:ARG:CA	1:54:A:ARG:C	1:55:A:LEU:N	20	6.38
(1,15)	1:27:A:LEU:C	1:28:A:ALA:N	1:28:A:ALA:CA	1:28:A:ALA:C	13	6.38
(1,56)	1:72:A:LEU:C	1:73:A:ILE:N	1:73:A:ILE:CA	1:73:A:ILE:C	14	6.36
(1,334)	1:226:A:PHE:N	1:226:A:PHE:CA	1:226:A:PHE:C	1:227:A:ILE:N	18	6.33
(1,172)	1:231:A:ILE:C	1:232:A:TYR:N	1:232:A:TYR:CA	1:232:A:TYR:C	15	6.33
(1,113)	1:147:A:GLN:C	1:148:A:VAL:N	1:148:A:VAL:CA	1:148:A:VAL:C	3	6.33
(1,10)	1:18:A:VAL:C	1:19:A:GLY:N	1:19:A:GLY:CA	1:19:A:GLY:C	8	6.31
(1,323)	1:197:A:GLU:N	1:197:A:GLU:CA	1:197:A:GLU:C	1:198:A:CYS:N	2	6.3
(1,61)	1:80:A:THR:C	1:81:A:GLY:N	1:81:A:GLY:CA	1:81:A:GLY:C	1	6.3
(1,209)	1:48:A:LEU:N	1:48:A:LEU:CA	1:48:A:LEU:C	1:49:A:LYS:N	1	6.28
(1,247)	1:91:A:GLY:N	1:91:A:GLY:CA	1:91:A:GLY:C	1:92:A:PHE:N	7	6.27
(1,237)	1:79:A:GLY:N	1:79:A:GLY:CA	1:79:A:GLY:C	1:80:A:THR:N	14	6.27
(1,214)	1:54:A:ARG:N	1:54:A:ARG:CA	1:54:A:ARG:C	1:55:A:LEU:N	16	6.26
(1,135)	1:171:A:ARG:C	1:172:A:THR:N	1:172:A:THR:CA	1:172:A:THR:C	16	6.26
(1,274)	1:130:A:PRO:N	1:130:A:PRO:CA	1:130:A:PRO:C	1:131:A:GLU:N	12	6.25
(1,336)	1:228:A:SER:N	1:228:A:SER:CA	1:228:A:SER:C	1:229:A:GLY:N	2	6.21
(1,56)	1:72:A:LEU:C	1:73:A:ILE:N	1:73:A:ILE:CA	1:73:A:ILE:C	16	6.21
(1,169)	1:226:A:PHE:C	1:227:A:ILE:N	1:227:A:ILE:CA	1:227:A:ILE:C	7	6.2
(1,112)	1:144:A:SER:C	1:145:A:GLU:N	1:145:A:GLU:CA	1:145:A:GLU:C	2	6.19
(1,152)	1:192:A:ARG:C	1:193:A:ALA:N	1:193:A:ALA:CA	1:193:A:ALA:C	20	6.14
(1,36)	1:51:A:ARG:C	1:52:A:ALA:N	1:52:A:ALA:CA	1:52:A:ALA:C	7	6.14
(1,56)	1:72:A:LEU:C	1:73:A:ILE:N	1:73:A:ILE:CA	1:73:A:ILE:C	13	6.12
(1,40)	1:55:A:LEU:C	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	7	6.12
(1,113)	1:147:A:GLN:C	1:148:A:VAL:N	1:148:A:VAL:CA	1:148:A:VAL:C	5	6.11
(1,36)	1:51:A:ARG:C	1:52:A:ALA:N	1:52:A:ALA:CA	1:52:A:ALA:C	14	6.08
(1,36)	1:51:A:ARG:C	1:52:A:ALA:N	1:52:A:ALA:CA	1:52:A:ALA:C	16	6.07
(1,270)	1:121:A:THR:N	1:121:A:THR:CA	1:121:A:THR:C	1:122:A:LEU:N	8	6.05
(1,102)	1:133:A:THR:C	1:134:A:PHE:N	1:134:A:PHE:CA	1:134:A:PHE:C	7	6.04
(1,286)	1:148:A:VAL:N	1:148:A:VAL:CA	1:148:A:VAL:C	1:149:A:PRO:N	6	6.02
(1,210)	1:49:A:LYS:N	1:49:A:LYS:CA	1:49:A:LYS:C	1:50:A:TYR:N	14	6.0
(1,343)	1:236:A:LYS:N	1:236:A:LYS:CA	1:236:A:LYS:C	1:237:A:GLN:N	13	5.99
(1,134)	1:169:A:THR:C	1:170:A:THR:N	1:170:A:THR:CA	1:170:A:THR:C	16	5.97
(1,343)	1:236:A:LYS:N	1:236:A:LYS:CA	1:236:A:LYS:C	1:237:A:GLN:N	16	5.96
(1,59)	1:76:A:VAL:C	1:77:A:ALA:N	1:77:A:ALA:CA	1:77:A:ALA:C	3	5.94
(1,199)	1:37:A:TRP:N	1:37:A:TRP:CA	1:37:A:TRP:C	1:38:A:ALA:N	19	5.93
(1,113)	1:147:A:GLN:C	1:148:A:VAL:N	1:148:A:VAL:CA	1:148:A:VAL:C	17	5.93
(1,61)	1:80:A:THR:C	1:81:A:GLY:N	1:81:A:GLY:CA	1:81:A:GLY:C	5	5.93
(1,56)	1:72:A:LEU:C	1:73:A:ILE:N	1:73:A:ILE:CA	1:73:A:ILE:C	11	5.89
(1,112)	1:144:A:SER:C	1:145:A:GLU:N	1:145:A:GLU:CA	1:145:A:GLU:C	1	5.88
(1,36)	1:51:A:ARG:C	1:52:A:ALA:N	1:52:A:ALA:CA	1:52:A:ALA:C	6	5.88
(1,15)	1:27:A:LEU:C	1:28:A:ALA:N	1:28:A:ALA:CA	1:28:A:ALA:C	10	5.88

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,134)	1:169:A:THR:C	1:170:A:THR:N	1:170:A:THR:CA	1:170:A:THR:C	6	5.87
(1,40)	1:55:A:LEU:C	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	14	5.84
(1,336)	1:228:A:SER:N	1:228:A:SER:CA	1:228:A:SER:C	1:229:A:GLY:N	19	5.79
(1,279)	1:138:A:ILE:N	1:138:A:ILE:CA	1:138:A:ILE:C	1:139:A:ILE:N	2	5.72
(1,336)	1:228:A:SER:N	1:228:A:SER:CA	1:228:A:SER:C	1:229:A:GLY:N	9	5.7
(1,274)	1:130:A:PRO:N	1:130:A:PRO:CA	1:130:A:PRO:C	1:131:A:GLU:N	19	5.7
(1,10)	1:18:A:VAL:C	1:19:A:GLY:N	1:19:A:GLY:CA	1:19:A:GLY:C	12	5.7
(1,336)	1:228:A:SER:N	1:228:A:SER:CA	1:228:A:SER:C	1:229:A:GLY:N	13	5.67
(1,10)	1:18:A:VAL:C	1:19:A:GLY:N	1:19:A:GLY:CA	1:19:A:GLY:C	4	5.67
(1,215)	1:55:A:LEU:N	1:55:A:LEU:CA	1:55:A:LEU:C	1:56:A:ALA:N	11	5.66
(1,71)	1:90:A:ARG:C	1:91:A:GLY:N	1:91:A:GLY:CA	1:91:A:GLY:C	20	5.61
(1,216)	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	1:57:A:VAL:N	20	5.6
(1,232)	1:73:A:ILE:N	1:73:A:ILE:CA	1:73:A:ILE:C	1:74:A:LEU:N	16	5.58
(1,332)	1:209:A:LEU:N	1:209:A:LEU:CA	1:209:A:LEU:C	1:210:A:ALA:N	13	5.57
(1,270)	1:121:A:THR:N	1:121:A:THR:CA	1:121:A:THR:C	1:122:A:LEU:N	10	5.57
(1,134)	1:169:A:THR:C	1:170:A:THR:N	1:170:A:THR:CA	1:170:A:THR:C	10	5.57
(1,113)	1:147:A:GLN:C	1:148:A:VAL:N	1:148:A:VAL:CA	1:148:A:VAL:C	9	5.5
(1,61)	1:80:A:THR:C	1:81:A:GLY:N	1:81:A:GLY:CA	1:81:A:GLY:C	14	5.5
(1,279)	1:138:A:ILE:N	1:138:A:ILE:CA	1:138:A:ILE:C	1:139:A:ILE:N	19	5.49
(1,36)	1:51:A:ARG:C	1:52:A:ALA:N	1:52:A:ALA:CA	1:52:A:ALA:C	11	5.49
(1,306)	1:176:A:ASN:N	1:176:A:ASN:CA	1:176:A:ASN:C	1:177:A:LEU:N	5	5.48
(1,343)	1:236:A:LYS:N	1:236:A:LYS:CA	1:236:A:LYS:C	1:237:A:GLN:N	14	5.47
(1,343)	1:236:A:LYS:N	1:236:A:LYS:CA	1:236:A:LYS:C	1:237:A:GLN:N	17	5.45
(1,171)	1:229:A:GLY:C	1:230:A:ILE:N	1:230:A:ILE:CA	1:230:A:ILE:C	11	5.45
(1,276)	1:132:A:GLY:N	1:132:A:GLY:CA	1:132:A:GLY:C	1:133:A:THR:N	9	5.43
(1,61)	1:80:A:THR:C	1:81:A:GLY:N	1:81:A:GLY:CA	1:81:A:GLY:C	6	5.42
(1,56)	1:72:A:LEU:C	1:73:A:ILE:N	1:73:A:ILE:CA	1:73:A:ILE:C	9	5.38
(1,156)	1:197:A:GLU:C	1:198:A:CYS:N	1:198:A:CYS:CA	1:198:A:CYS:C	12	5.35
(1,152)	1:192:A:ARG:C	1:193:A:ALA:N	1:193:A:ALA:CA	1:193:A:ALA:C	15	5.34
(1,10)	1:18:A:VAL:C	1:19:A:GLY:N	1:19:A:GLY:CA	1:19:A:GLY:C	14	5.34
(1,152)	1:192:A:ARG:C	1:193:A:ALA:N	1:193:A:ALA:CA	1:193:A:ALA:C	7	5.32
(1,59)	1:76:A:VAL:C	1:77:A:ALA:N	1:77:A:ALA:CA	1:77:A:ALA:C	8	5.31
(1,10)	1:18:A:VAL:C	1:19:A:GLY:N	1:19:A:GLY:CA	1:19:A:GLY:C	11	5.3
(1,15)	1:27:A:LEU:C	1:28:A:ALA:N	1:28:A:ALA:CA	1:28:A:ALA:C	18	5.28
(1,342)	1:235:A:ARG:N	1:235:A:ARG:CA	1:235:A:ARG:C	1:236:A:LYS:N	14	5.24
(1,279)	1:138:A:ILE:N	1:138:A:ILE:CA	1:138:A:ILE:C	1:139:A:ILE:N	12	5.24
(1,266)	1:116:A:HIS:N	1:116:A:HIS:CA	1:116:A:HIS:C	1:117:A:LEU:N	16	5.24
(1,216)	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	1:57:A:VAL:N	10	5.23
(1,102)	1:133:A:THR:C	1:134:A:PHE:N	1:134:A:PHE:CA	1:134:A:PHE:C	4	5.22
(1,216)	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	1:57:A:VAL:N	13	5.21
(1,113)	1:147:A:GLN:C	1:148:A:VAL:N	1:148:A:VAL:CA	1:148:A:VAL:C	15	5.21
(1,343)	1:236:A:LYS:N	1:236:A:LYS:CA	1:236:A:LYS:C	1:237:A:GLN:N	4	5.2
(1,15)	1:27:A:LEU:C	1:28:A:ALA:N	1:28:A:ALA:CA	1:28:A:ALA:C	3	5.19
(1,333)	1:225:A:GLY:N	1:225:A:GLY:CA	1:225:A:GLY:C	1:226:A:PHE:N	8	5.18
(1,342)	1:235:A:ARG:N	1:235:A:ARG:CA	1:235:A:ARG:C	1:236:A:LYS:N	17	5.16
(1,113)	1:147:A:GLN:C	1:148:A:VAL:N	1:148:A:VAL:CA	1:148:A:VAL:C	19	5.16
(1,308)	1:179:A:TYR:N	1:179:A:TYR:CA	1:179:A:TYR:C	1:180:A:LYS:N	19	5.15
(1,331)	1:208:A:GLU:N	1:208:A:GLU:CA	1:208:A:GLU:C	1:209:A:LEU:N	6	5.12
(1,114)	1:148:A:VAL:C	1:149:A:PRO:N	1:149:A:PRO:CA	1:149:A:PRO:C	12	5.12
(1,152)	1:192:A:ARG:C	1:193:A:ALA:N	1:193:A:ALA:CA	1:193:A:ALA:C	19	5.11
(1,58)	1:74:A:LEU:C	1:75:A:ASP:N	1:75:A:ASP:CA	1:75:A:ASP:C	14	5.1

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,279)	1:138:A:ILE:N	1:138:A:ILE:CA	1:138:A:ILE:C	1:139:A:ILE:N	9	5.07
(1,216)	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	1:57:A:VAL:N	12	5.07
(1,56)	1:72:A:LEU:C	1:73:A:ILE:N	1:73:A:ILE:CA	1:73:A:ILE:C	5	5.05
(1,10)	1:18:A:VAL:C	1:19:A:GLY:N	1:19:A:GLY:CA	1:19:A:GLY:C	17	5.05
(1,216)	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	1:57:A:VAL:N	3	5.04
(1,56)	1:72:A:LEU:C	1:73:A:ILE:N	1:73:A:ILE:CA	1:73:A:ILE:C	1	5.04
(1,306)	1:176:A:ASN:N	1:176:A:ASN:CA	1:176:A:ASN:C	1:177:A:LEU:N	7	5.03
(1,297)	1:160:A:THR:N	1:160:A:THR:CA	1:160:A:THR:C	1:161:A:LYS:N	14	5.02
(1,216)	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	1:57:A:VAL:N	5	5.01
(1,343)	1:236:A:LYS:N	1:236:A:LYS:CA	1:236:A:LYS:C	1:237:A:GLN:N	20	5.0
(1,216)	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	1:57:A:VAL:N	7	4.99
(1,185)	1:17:A:ARG:N	1:17:A:ARG:CA	1:17:A:ARG:C	1:18:A:VAL:N	13	4.98
(1,152)	1:192:A:ARG:C	1:193:A:ALA:N	1:193:A:ALA:CA	1:193:A:ALA:C	16	4.98
(1,216)	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	1:57:A:VAL:N	8	4.97
(1,216)	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	1:57:A:VAL:N	11	4.97
(1,192)	1:28:A:ALA:N	1:28:A:ALA:CA	1:28:A:ALA:C	1:29:A:CYS:N	6	4.97
(1,216)	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	1:57:A:VAL:N	4	4.94
(1,164)	1:206:A:HIS:C	1:207:A:TRP:N	1:207:A:TRP:CA	1:207:A:TRP:C	13	4.94
(1,216)	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	1:57:A:VAL:N	1	4.93
(1,216)	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	1:57:A:VAL:N	6	4.92
(1,113)	1:147:A:GLN:C	1:148:A:VAL:N	1:148:A:VAL:CA	1:148:A:VAL:C	1	4.91
(1,232)	1:73:A:ILE:N	1:73:A:ILE:CA	1:73:A:ILE:C	1:74:A:LEU:N	3	4.9
(1,129)	1:164:A:GLY:C	1:165:A:LEU:N	1:165:A:LEU:CA	1:165:A:LEU:C	11	4.89
(1,216)	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	1:57:A:VAL:N	14	4.88
(1,216)	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	1:57:A:VAL:N	15	4.88
(1,96)	1:125:A:GLU:C	1:126:A:PRO:N	1:126:A:PRO:CA	1:126:A:PRO:C	13	4.88
(1,134)	1:169:A:THR:C	1:170:A:THR:N	1:170:A:THR:CA	1:170:A:THR:C	5	4.87
(1,216)	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	1:57:A:VAL:N	16	4.86
(1,129)	1:164:A:GLY:C	1:165:A:LEU:N	1:165:A:LEU:CA	1:165:A:LEU:C	16	4.86
(1,279)	1:138:A:ILE:N	1:138:A:ILE:CA	1:138:A:ILE:C	1:139:A:ILE:N	3	4.84
(1,216)	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	1:57:A:VAL:N	19	4.84
(1,216)	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	1:57:A:VAL:N	2	4.82
(1,216)	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	1:57:A:VAL:N	17	4.81
(1,73)	1:94:A:GLN:C	1:95:A:VAL:N	1:95:A:VAL:CA	1:95:A:VAL:C	1	4.79
(1,7)	1:15:A:LEU:C	1:16:A:ALA:N	1:16:A:ALA:CA	1:16:A:ALA:C	9	4.79
(1,306)	1:176:A:ASN:N	1:176:A:ASN:CA	1:176:A:ASN:C	1:177:A:LEU:N	17	4.78
(1,135)	1:171:A:ARG:C	1:172:A:THR:N	1:172:A:THR:CA	1:172:A:THR:C	2	4.77
(1,15)	1:27:A:LEU:C	1:28:A:ALA:N	1:28:A:ALA:CA	1:28:A:ALA:C	15	4.76
(1,308)	1:179:A:TYR:N	1:179:A:TYR:CA	1:179:A:TYR:C	1:180:A:LYS:N	6	4.75
(1,274)	1:130:A:PRO:N	1:130:A:PRO:CA	1:130:A:PRO:C	1:131:A:GLU:N	5	4.75
(1,334)	1:226:A:PHE:N	1:226:A:PHE:CA	1:226:A:PHE:C	1:227:A:ILE:N	7	4.73
(1,342)	1:235:A:ARG:N	1:235:A:ARG:CA	1:235:A:ARG:C	1:236:A:LYS:N	2	4.69
(1,342)	1:235:A:ARG:N	1:235:A:ARG:CA	1:235:A:ARG:C	1:236:A:LYS:N	11	4.68
(1,306)	1:176:A:ASN:N	1:176:A:ASN:CA	1:176:A:ASN:C	1:177:A:LEU:N	10	4.68
(1,276)	1:132:A:GLY:N	1:132:A:GLY:CA	1:132:A:GLY:C	1:133:A:THR:N	4	4.68
(1,36)	1:51:A:ARG:C	1:52:A:ALA:N	1:52:A:ALA:CA	1:52:A:ALA:C	2	4.66
(1,266)	1:116:A:HIS:N	1:116:A:HIS:CA	1:116:A:HIS:C	1:117:A:LEU:N	10	4.65
(1,279)	1:138:A:ILE:N	1:138:A:ILE:CA	1:138:A:ILE:C	1:139:A:ILE:N	4	4.62
(1,274)	1:130:A:PRO:N	1:130:A:PRO:CA	1:130:A:PRO:C	1:131:A:GLU:N	1	4.62
(1,123)	1:157:A:LEU:C	1:158:A:ARG:N	1:158:A:ARG:CA	1:158:A:ARG:C	2	4.62
(1,36)	1:51:A:ARG:C	1:52:A:ALA:N	1:52:A:ALA:CA	1:52:A:ALA:C	4	4.61

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,156)	1:197:A:GLU:C	1:198:A:CYS:N	1:198:A:CYS:CA	1:198:A:CYS:C	18	4.58
(1,61)	1:80:A:THR:C	1:81:A:GLY:N	1:81:A:GLY:CA	1:81:A:GLY:C	13	4.56
(1,279)	1:138:A:ILE:N	1:138:A:ILE:CA	1:138:A:ILE:C	1:139:A:ILE:N	17	4.55
(1,40)	1:55:A:LEU:C	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	9	4.53
(1,279)	1:138:A:ILE:N	1:138:A:ILE:CA	1:138:A:ILE:C	1:139:A:ILE:N	15	4.52
(1,61)	1:80:A:THR:C	1:81:A:GLY:N	1:81:A:GLY:CA	1:81:A:GLY:C	7	4.51
(1,73)	1:94:A:GLN:C	1:95:A:VAL:N	1:95:A:VAL:CA	1:95:A:VAL:C	11	4.5
(1,61)	1:80:A:THR:C	1:81:A:GLY:N	1:81:A:GLY:CA	1:81:A:GLY:C	4	4.5
(1,212)	1:52:A:ALA:N	1:52:A:ALA:CA	1:52:A:ALA:C	1:53:A:PRO:N	20	4.49
(1,96)	1:125:A:GLU:C	1:126:A:PRO:N	1:126:A:PRO:CA	1:126:A:PRO:C	7	4.49
(1,61)	1:80:A:THR:C	1:81:A:GLY:N	1:81:A:GLY:CA	1:81:A:GLY:C	18	4.48
(1,274)	1:130:A:PRO:N	1:130:A:PRO:CA	1:130:A:PRO:C	1:131:A:GLU:N	6	4.47
(1,94)	1:118:A:SER:C	1:119:A:LEU:N	1:119:A:LEU:CA	1:119:A:LEU:C	13	4.43
(1,56)	1:72:A:LEU:C	1:73:A:ILE:N	1:73:A:ILE:CA	1:73:A:ILE:C	3	4.43
(1,185)	1:17:A:ARG:N	1:17:A:ARG:CA	1:17:A:ARG:C	1:18:A:VAL:N	17	4.42
(1,112)	1:144:A:SER:C	1:145:A:GLU:N	1:145:A:GLU:CA	1:145:A:GLU:C	20	4.42
(1,342)	1:235:A:ARG:N	1:235:A:ARG:CA	1:235:A:ARG:C	1:236:A:LYS:N	7	4.4
(1,232)	1:73:A:ILE:N	1:73:A:ILE:CA	1:73:A:ILE:C	1:74:A:LEU:N	13	4.4
(1,56)	1:72:A:LEU:C	1:73:A:ILE:N	1:73:A:ILE:CA	1:73:A:ILE:C	8	4.39
(1,112)	1:144:A:SER:C	1:145:A:GLU:N	1:145:A:GLU:CA	1:145:A:GLU:C	13	4.38
(1,40)	1:55:A:LEU:C	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	6	4.37
(1,39)	1:54:A:ARG:C	1:55:A:LEU:N	1:55:A:LEU:CA	1:55:A:LEU:C	2	4.37
(1,334)	1:226:A:PHE:N	1:226:A:PHE:CA	1:226:A:PHE:C	1:227:A:ILE:N	9	4.36
(1,171)	1:229:A:GLY:C	1:230:A:ILE:N	1:230:A:ILE:CA	1:230:A:ILE:C	1	4.36
(1,134)	1:169:A:THR:C	1:170:A:THR:N	1:170:A:THR:CA	1:170:A:THR:C	3	4.36
(1,156)	1:197:A:GLU:C	1:198:A:CYS:N	1:198:A:CYS:CA	1:198:A:CYS:C	8	4.34
(1,266)	1:116:A:HIS:N	1:116:A:HIS:CA	1:116:A:HIS:C	1:117:A:LEU:N	2	4.33
(1,113)	1:147:A:GLN:C	1:148:A:VAL:N	1:148:A:VAL:CA	1:148:A:VAL:C	16	4.32
(1,153)	1:194:A:GLY:C	1:195:A:VAL:N	1:195:A:VAL:CA	1:195:A:VAL:C	2	4.3
(1,153)	1:194:A:GLY:C	1:195:A:VAL:N	1:195:A:VAL:CA	1:195:A:VAL:C	14	4.28
(1,112)	1:144:A:SER:C	1:145:A:GLU:N	1:145:A:GLU:CA	1:145:A:GLU:C	3	4.27
(1,56)	1:72:A:LEU:C	1:73:A:ILE:N	1:73:A:ILE:CA	1:73:A:ILE:C	6	4.26
(1,279)	1:138:A:ILE:N	1:138:A:ILE:CA	1:138:A:ILE:C	1:139:A:ILE:N	16	4.25
(1,10)	1:18:A:VAL:C	1:19:A:GLY:N	1:19:A:GLY:CA	1:19:A:GLY:C	13	4.25
(1,98)	1:127:A:LEU:C	1:128:A:PRO:N	1:128:A:PRO:CA	1:128:A:PRO:C	5	4.24
(1,61)	1:80:A:THR:C	1:81:A:GLY:N	1:81:A:GLY:CA	1:81:A:GLY:C	8	4.23
(1,342)	1:235:A:ARG:N	1:235:A:ARG:CA	1:235:A:ARG:C	1:236:A:LYS:N	10	4.22
(1,10)	1:18:A:VAL:C	1:19:A:GLY:N	1:19:A:GLY:CA	1:19:A:GLY:C	5	4.22
(1,98)	1:127:A:LEU:C	1:128:A:PRO:N	1:128:A:PRO:CA	1:128:A:PRO:C	20	4.2
(1,40)	1:55:A:LEU:C	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	5	4.2
(1,306)	1:176:A:ASN:N	1:176:A:ASN:CA	1:176:A:ASN:C	1:177:A:LEU:N	12	4.19
(1,56)	1:72:A:LEU:C	1:73:A:ILE:N	1:73:A:ILE:CA	1:73:A:ILE:C	10	4.19
(1,10)	1:18:A:VAL:C	1:19:A:GLY:N	1:19:A:GLY:CA	1:19:A:GLY:C	10	4.19
(1,36)	1:51:A:ARG:C	1:52:A:ALA:N	1:52:A:ALA:CA	1:52:A:ALA:C	8	4.18
(1,73)	1:94:A:GLN:C	1:95:A:VAL:N	1:95:A:VAL:CA	1:95:A:VAL:C	14	4.17
(1,73)	1:94:A:GLN:C	1:95:A:VAL:N	1:95:A:VAL:CA	1:95:A:VAL:C	3	4.14
(1,56)	1:72:A:LEU:C	1:73:A:ILE:N	1:73:A:ILE:CA	1:73:A:ILE:C	19	4.14
(1,233)	1:74:A:LEU:N	1:74:A:LEU:CA	1:74:A:LEU:C	1:75:A:ASP:N	10	4.13
(1,212)	1:52:A:ALA:N	1:52:A:ALA:CA	1:52:A:ALA:C	1:53:A:PRO:N	7	4.13
(1,7)	1:15:A:LEU:C	1:16:A:ALA:N	1:16:A:ALA:CA	1:16:A:ALA:C	10	4.13
(1,10)	1:18:A:VAL:C	1:19:A:GLY:N	1:19:A:GLY:CA	1:19:A:GLY:C	6	4.1

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,10)	1:18:A:VAL:C	1:19:A:GLY:N	1:19:A:GLY:CA	1:19:A:GLY:C	19	4.09
(1,212)	1:52:A:ALA:N	1:52:A:ALA:CA	1:52:A:ALA:C	1:53:A:PRO:N	4	4.08
(1,169)	1:226:A:PHE:C	1:227:A:ILE:N	1:227:A:ILE:CA	1:227:A:ILE:C	6	4.06
(1,251)	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	1:98:A:VAL:N	4	4.03
(1,10)	1:18:A:VAL:C	1:19:A:GLY:N	1:19:A:GLY:CA	1:19:A:GLY:C	16	4.03
(1,185)	1:17:A:ARG:N	1:17:A:ARG:CA	1:17:A:ARG:C	1:18:A:VAL:N	19	4.02
(1,56)	1:72:A:LEU:C	1:73:A:ILE:N	1:73:A:ILE:CA	1:73:A:ILE:C	18	4.02
(1,15)	1:27:A:LEU:C	1:28:A:ALA:N	1:28:A:ALA:CA	1:28:A:ALA:C	8	4.0
(1,3)	1:11:A:LEU:C	1:12:A:PRO:N	1:12:A:PRO:CA	1:12:A:PRO:C	18	3.99
(1,100)	1:130:A:PRO:C	1:131:A:GLU:N	1:131:A:GLU:CA	1:131:A:GLU:C	12	3.97
(1,61)	1:80:A:THR:C	1:81:A:GLY:N	1:81:A:GLY:CA	1:81:A:GLY:C	16	3.96
(1,10)	1:18:A:VAL:C	1:19:A:GLY:N	1:19:A:GLY:CA	1:19:A:GLY:C	7	3.95
(1,58)	1:74:A:LEU:C	1:75:A:ASP:N	1:75:A:ASP:CA	1:75:A:ASP:C	10	3.94
(1,36)	1:51:A:ARG:C	1:52:A:ALA:N	1:52:A:ALA:CA	1:52:A:ALA:C	19	3.94
(1,73)	1:94:A:GLN:C	1:95:A:VAL:N	1:95:A:VAL:CA	1:95:A:VAL:C	18	3.92
(1,61)	1:80:A:THR:C	1:81:A:GLY:N	1:81:A:GLY:CA	1:81:A:GLY:C	2	3.91
(1,36)	1:51:A:ARG:C	1:52:A:ALA:N	1:52:A:ALA:CA	1:52:A:ALA:C	15	3.9
(1,10)	1:18:A:VAL:C	1:19:A:GLY:N	1:19:A:GLY:CA	1:19:A:GLY:C	2	3.9
(1,266)	1:116:A:HIS:N	1:116:A:HIS:CA	1:116:A:HIS:C	1:117:A:LEU:N	15	3.89
(1,343)	1:236:A:LYS:N	1:236:A:LYS:CA	1:236:A:LYS:C	1:237:A:GLN:N	15	3.85
(1,169)	1:226:A:PHE:C	1:227:A:ILE:N	1:227:A:ILE:CA	1:227:A:ILE:C	9	3.85
(1,234)	1:75:A:ASP:N	1:75:A:ASP:CA	1:75:A:ASP:C	1:76:A:VAL:N	14	3.84
(1,61)	1:80:A:THR:C	1:81:A:GLY:N	1:81:A:GLY:CA	1:81:A:GLY:C	17	3.83
(1,266)	1:116:A:HIS:N	1:116:A:HIS:CA	1:116:A:HIS:C	1:117:A:LEU:N	6	3.82
(1,247)	1:91:A:GLY:N	1:91:A:GLY:CA	1:91:A:GLY:C	1:92:A:PHE:N	8	3.82
(1,36)	1:51:A:ARG:C	1:52:A:ALA:N	1:52:A:ALA:CA	1:52:A:ALA:C	17	3.81
(1,342)	1:235:A:ARG:N	1:235:A:ARG:CA	1:235:A:ARG:C	1:236:A:LYS:N	19	3.8
(1,308)	1:179:A:TYR:N	1:179:A:TYR:CA	1:179:A:TYR:C	1:180:A:LYS:N	14	3.79
(1,273)	1:128:A:PRO:N	1:128:A:PRO:CA	1:128:A:PRO:C	1:129:A:ASP:N	2	3.79
(1,192)	1:28:A:ALA:N	1:28:A:ALA:CA	1:28:A:ALA:C	1:29:A:CYS:N	11	3.79
(1,73)	1:94:A:GLN:C	1:95:A:VAL:N	1:95:A:VAL:CA	1:95:A:VAL:C	15	3.78
(1,71)	1:90:A:ARG:C	1:91:A:GLY:N	1:91:A:GLY:CA	1:91:A:GLY:C	18	3.76
(1,266)	1:116:A:HIS:N	1:116:A:HIS:CA	1:116:A:HIS:C	1:117:A:LEU:N	3	3.75
(1,260)	1:107:A:GLN:N	1:107:A:GLN:CA	1:107:A:GLN:C	1:108:A:ALA:N	9	3.75
(1,98)	1:127:A:LEU:C	1:128:A:PRO:N	1:128:A:PRO:CA	1:128:A:PRO:C	6	3.75
(1,343)	1:236:A:LYS:N	1:236:A:LYS:CA	1:236:A:LYS:C	1:237:A:GLN:N	12	3.73
(1,342)	1:235:A:ARG:N	1:235:A:ARG:CA	1:235:A:ARG:C	1:236:A:LYS:N	12	3.73
(1,171)	1:229:A:GLY:C	1:230:A:ILE:N	1:230:A:ILE:CA	1:230:A:ILE:C	10	3.72
(1,274)	1:130:A:PRO:N	1:130:A:PRO:CA	1:130:A:PRO:C	1:131:A:GLU:N	16	3.71
(1,333)	1:225:A:GLY:N	1:225:A:GLY:CA	1:225:A:GLY:C	1:226:A:PHE:N	15	3.7
(1,279)	1:138:A:ILE:N	1:138:A:ILE:CA	1:138:A:ILE:C	1:139:A:ILE:N	1	3.7
(1,152)	1:192:A:ARG:C	1:193:A:ALA:N	1:193:A:ALA:CA	1:193:A:ALA:C	5	3.7
(1,110)	1:142:A:ALA:C	1:143:A:LEU:N	1:143:A:LEU:CA	1:143:A:LEU:C	3	3.7
(1,10)	1:18:A:VAL:C	1:19:A:GLY:N	1:19:A:GLY:CA	1:19:A:GLY:C	20	3.7
(1,215)	1:55:A:LEU:N	1:55:A:LEU:CA	1:55:A:LEU:C	1:56:A:ALA:N	2	3.68
(1,279)	1:138:A:ILE:N	1:138:A:ILE:CA	1:138:A:ILE:C	1:139:A:ILE:N	20	3.65
(1,232)	1:73:A:ILE:N	1:73:A:ILE:CA	1:73:A:ILE:C	1:74:A:LEU:N	11	3.65
(1,342)	1:235:A:ARG:N	1:235:A:ARG:CA	1:235:A:ARG:C	1:236:A:LYS:N	8	3.61
(1,306)	1:176:A:ASN:N	1:176:A:ASN:CA	1:176:A:ASN:C	1:177:A:LEU:N	18	3.61
(1,61)	1:80:A:THR:C	1:81:A:GLY:N	1:81:A:GLY:CA	1:81:A:GLY:C	19	3.61
(1,168)	1:225:A:GLY:C	1:226:A:PHE:N	1:226:A:PHE:CA	1:226:A:PHE:C	1	3.58

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,168)	1:225:A:GLY:C	1:226:A:PHE:N	1:226:A:PHE:CA	1:226:A:PHE:C	20	3.58
(1,164)	1:206:A:HIS:C	1:207:A:TRP:N	1:207:A:TRP:CA	1:207:A:TRP:C	17	3.56
(1,342)	1:235:A:ARG:N	1:235:A:ARG:CA	1:235:A:ARG:C	1:236:A:LYS:N	16	3.55
(1,185)	1:17:A:ARG:N	1:17:A:ARG:CA	1:17:A:ARG:C	1:18:A:VAL:N	6	3.55
(1,113)	1:147:A:GLN:C	1:148:A:VAL:N	1:148:A:VAL:CA	1:148:A:VAL:C	13	3.54
(1,10)	1:18:A:VAL:C	1:19:A:GLY:N	1:19:A:GLY:CA	1:19:A:GLY:C	3	3.54
(1,274)	1:130:A:PRO:N	1:130:A:PRO:CA	1:130:A:PRO:C	1:131:A:GLU:N	18	3.52
(1,343)	1:236:A:LYS:N	1:236:A:LYS:CA	1:236:A:LYS:C	1:237:A:GLN:N	8	3.5
(1,61)	1:80:A:THR:C	1:81:A:GLY:N	1:81:A:GLY:CA	1:81:A:GLY:C	12	3.49
(1,342)	1:235:A:ARG:N	1:235:A:ARG:CA	1:235:A:ARG:C	1:236:A:LYS:N	18	3.48
(1,325)	1:200:A:VAL:N	1:200:A:VAL:CA	1:200:A:VAL:C	1:201:A:THR:N	3	3.45
(1,171)	1:229:A:GLY:C	1:230:A:ILE:N	1:230:A:ILE:CA	1:230:A:ILE:C	15	3.43
(1,270)	1:121:A:THR:N	1:121:A:THR:CA	1:121:A:THR:C	1:122:A:LEU:N	15	3.42
(1,25)	1:40:A:GLU:C	1:41:A:TYR:N	1:41:A:TYR:CA	1:41:A:TYR:C	14	3.41
(1,336)	1:228:A:SER:N	1:228:A:SER:CA	1:228:A:SER:C	1:229:A:GLY:N	7	3.39
(1,336)	1:228:A:SER:N	1:228:A:SER:CA	1:228:A:SER:C	1:229:A:GLY:N	16	3.39
(1,59)	1:76:A:VAL:C	1:77:A:ALA:N	1:77:A:ALA:CA	1:77:A:ALA:C	14	3.39
(1,193)	1:29:A:CYS:N	1:29:A:CYS:CA	1:29:A:CYS:C	1:30:A:LYS:N	11	3.38
(1,61)	1:80:A:THR:C	1:81:A:GLY:N	1:81:A:GLY:CA	1:81:A:GLY:C	3	3.38
(1,251)	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	1:98:A:VAL:N	8	3.35
(1,232)	1:73:A:ILE:N	1:73:A:ILE:CA	1:73:A:ILE:C	1:74:A:LEU:N	4	3.33
(1,276)	1:132:A:GLY:N	1:132:A:GLY:CA	1:132:A:GLY:C	1:133:A:THR:N	14	3.32
(1,274)	1:130:A:PRO:N	1:130:A:PRO:CA	1:130:A:PRO:C	1:131:A:GLU:N	11	3.31
(1,190)	1:24:A:ILE:N	1:24:A:ILE:CA	1:24:A:ILE:C	1:25:A:THR:N	2	3.29
(1,282)	1:142:A:ALA:N	1:142:A:ALA:CA	1:142:A:ALA:C	1:143:A:LEU:N	8	3.28
(1,224)	1:64:A:PHE:N	1:64:A:PHE:CA	1:64:A:PHE:C	1:65:A:ARG:N	10	3.28
(1,282)	1:142:A:ALA:N	1:142:A:ALA:CA	1:142:A:ALA:C	1:143:A:LEU:N	17	3.25
(1,279)	1:138:A:ILE:N	1:138:A:ILE:CA	1:138:A:ILE:C	1:139:A:ILE:N	18	3.23
(1,236)	1:78:A:CYS:N	1:78:A:CYS:CA	1:78:A:CYS:C	1:79:A:GLY:N	14	3.23
(1,232)	1:73:A:ILE:N	1:73:A:ILE:CA	1:73:A:ILE:C	1:74:A:LEU:N	18	3.22
(1,36)	1:51:A:ARG:C	1:52:A:ALA:N	1:52:A:ALA:CA	1:52:A:ALA:C	9	3.22
(1,236)	1:78:A:CYS:N	1:78:A:CYS:CA	1:78:A:CYS:C	1:79:A:GLY:N	6	3.2
(1,214)	1:54:A:ARG:N	1:54:A:ARG:CA	1:54:A:ARG:C	1:55:A:LEU:N	2	3.19
(1,212)	1:52:A:ALA:N	1:52:A:ALA:CA	1:52:A:ALA:C	1:53:A:PRO:N	13	3.19
(1,190)	1:24:A:ILE:N	1:24:A:ILE:CA	1:24:A:ILE:C	1:25:A:THR:N	7	3.19
(1,160)	1:201:A:THR:C	1:202:A:GLN:N	1:202:A:GLN:CA	1:202:A:GLN:C	1	3.17
(1,25)	1:40:A:GLU:C	1:41:A:TYR:N	1:41:A:TYR:CA	1:41:A:TYR:C	19	3.17
(1,36)	1:51:A:ARG:C	1:52:A:ALA:N	1:52:A:ALA:CA	1:52:A:ALA:C	13	3.16
(1,232)	1:73:A:ILE:N	1:73:A:ILE:CA	1:73:A:ILE:C	1:74:A:LEU:N	5	3.15
(1,152)	1:192:A:ARG:C	1:193:A:ALA:N	1:193:A:ALA:CA	1:193:A:ALA:C	10	3.14
(1,279)	1:138:A:ILE:N	1:138:A:ILE:CA	1:138:A:ILE:C	1:139:A:ILE:N	11	3.13
(1,171)	1:229:A:GLY:C	1:230:A:ILE:N	1:230:A:ILE:CA	1:230:A:ILE:C	6	3.07
(1,110)	1:142:A:ALA:C	1:143:A:LEU:N	1:143:A:LEU:CA	1:143:A:LEU:C	18	3.07
(1,279)	1:138:A:ILE:N	1:138:A:ILE:CA	1:138:A:ILE:C	1:139:A:ILE:N	8	3.06
(1,185)	1:17:A:ARG:N	1:17:A:ARG:CA	1:17:A:ARG:C	1:18:A:VAL:N	4	3.06
(1,330)	1:207:A:TRP:N	1:207:A:TRP:CA	1:207:A:TRP:C	1:208:A:GLU:N	14	3.04
(1,99)	1:129:A:ASP:C	1:130:A:PRO:N	1:130:A:PRO:CA	1:130:A:PRO:C	12	3.03
(1,343)	1:236:A:LYS:N	1:236:A:LYS:CA	1:236:A:LYS:C	1:237:A:GLN:N	11	3.02
(1,333)	1:225:A:GLY:N	1:225:A:GLY:CA	1:225:A:GLY:C	1:226:A:PHE:N	10	2.99
(1,336)	1:228:A:SER:N	1:228:A:SER:CA	1:228:A:SER:C	1:229:A:GLY:N	11	2.98
(1,274)	1:130:A:PRO:N	1:130:A:PRO:CA	1:130:A:PRO:C	1:131:A:GLU:N	13	2.96

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,157)	1:198:A:CYS:C	1:199:A:LEU:N	1:199:A:LEU:CA	1:199:A:LEU:C	6	2.96
(1,266)	1:116:A:HIS:N	1:116:A:HIS:CA	1:116:A:HIS:C	1:117:A:LEU:N	1	2.95
(1,3)	1:11:A:LEU:C	1:12:A:PRO:N	1:12:A:PRO:CA	1:12:A:PRO:C	1	2.95
(1,336)	1:228:A:SER:N	1:228:A:SER:CA	1:228:A:SER:C	1:229:A:GLY:N	20	2.94
(1,212)	1:52:A:ALA:N	1:52:A:ALA:CA	1:52:A:ALA:C	1:53:A:PRO:N	12	2.92
(1,236)	1:78:A:CYS:N	1:78:A:CYS:CA	1:78:A:CYS:C	1:79:A:GLY:N	15	2.91
(1,193)	1:29:A:CYS:N	1:29:A:CYS:CA	1:29:A:CYS:C	1:30:A:LYS:N	2	2.89
(1,216)	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	1:57:A:VAL:N	9	2.86
(1,279)	1:138:A:ILE:N	1:138:A:ILE:CA	1:138:A:ILE:C	1:139:A:ILE:N	10	2.84
(1,279)	1:138:A:ILE:N	1:138:A:ILE:CA	1:138:A:ILE:C	1:139:A:ILE:N	13	2.84
(1,308)	1:179:A:TYR:N	1:179:A:TYR:CA	1:179:A:TYR:C	1:180:A:LYS:N	12	2.81
(1,23)	1:38:A:ALA:C	1:39:A:PRO:N	1:39:A:PRO:CA	1:39:A:PRO:C	14	2.8
(1,342)	1:235:A:ARG:N	1:235:A:ARG:CA	1:235:A:ARG:C	1:236:A:LYS:N	6	2.77
(1,185)	1:17:A:ARG:N	1:17:A:ARG:CA	1:17:A:ARG:C	1:18:A:VAL:N	3	2.77
(1,334)	1:226:A:PHE:N	1:226:A:PHE:CA	1:226:A:PHE:C	1:227:A:ILE:N	8	2.76
(1,23)	1:38:A:ALA:C	1:39:A:PRO:N	1:39:A:PRO:CA	1:39:A:PRO:C	3	2.76
(1,320)	1:191:A:GLU:N	1:191:A:GLU:CA	1:191:A:GLU:C	1:192:A:ARG:N	3	2.75
(1,7)	1:15:A:LEU:C	1:16:A:ALA:N	1:16:A:ALA:CA	1:16:A:ALA:C	16	2.75
(1,114)	1:148:A:VAL:C	1:149:A:PRO:N	1:149:A:PRO:CA	1:149:A:PRO:C	19	2.73
(1,33)	1:48:A:LEU:C	1:49:A:LYS:N	1:49:A:LYS:CA	1:49:A:LYS:C	2	2.72
(1,23)	1:38:A:ALA:C	1:39:A:PRO:N	1:39:A:PRO:CA	1:39:A:PRO:C	16	2.72
(1,113)	1:147:A:GLN:C	1:148:A:VAL:N	1:148:A:VAL:CA	1:148:A:VAL:C	14	2.71
(1,56)	1:72:A:LEU:C	1:73:A:ILE:N	1:73:A:ILE:CA	1:73:A:ILE:C	17	2.71
(1,58)	1:74:A:LEU:C	1:75:A:ASP:N	1:75:A:ASP:CA	1:75:A:ASP:C	20	2.7
(1,23)	1:38:A:ALA:C	1:39:A:PRO:N	1:39:A:PRO:CA	1:39:A:PRO:C	8	2.7
(1,109)	1:141:A:GLY:C	1:142:A:ALA:N	1:142:A:ALA:CA	1:142:A:ALA:C	17	2.69
(1,260)	1:107:A:GLN:N	1:107:A:GLN:CA	1:107:A:GLN:C	1:108:A:ALA:N	7	2.68
(1,279)	1:138:A:ILE:N	1:138:A:ILE:CA	1:138:A:ILE:C	1:139:A:ILE:N	6	2.67
(1,73)	1:94:A:GLN:C	1:95:A:VAL:N	1:95:A:VAL:CA	1:95:A:VAL:C	10	2.67
(1,23)	1:38:A:ALA:C	1:39:A:PRO:N	1:39:A:PRO:CA	1:39:A:PRO:C	17	2.66
(1,75)	1:96:A:GLN:C	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	13	2.65
(1,23)	1:38:A:ALA:C	1:39:A:PRO:N	1:39:A:PRO:CA	1:39:A:PRO:C	7	2.65
(1,343)	1:236:A:LYS:N	1:236:A:LYS:CA	1:236:A:LYS:C	1:237:A:GLN:N	7	2.64
(1,260)	1:107:A:GLN:N	1:107:A:GLN:CA	1:107:A:GLN:C	1:108:A:ALA:N	10	2.63
(1,156)	1:197:A:GLU:C	1:198:A:CYS:N	1:198:A:CYS:CA	1:198:A:CYS:C	16	2.63
(1,23)	1:38:A:ALA:C	1:39:A:PRO:N	1:39:A:PRO:CA	1:39:A:PRO:C	5	2.63
(1,297)	1:160:A:THR:N	1:160:A:THR:CA	1:160:A:THR:C	1:161:A:LYS:N	16	2.62
(1,134)	1:169:A:THR:C	1:170:A:THR:N	1:170:A:THR:CA	1:170:A:THR:C	19	2.61
(1,167)	1:224:A:ASP:C	1:225:A:GLY:N	1:225:A:GLY:CA	1:225:A:GLY:C	4	2.6
(1,15)	1:27:A:LEU:C	1:28:A:ALA:N	1:28:A:ALA:CA	1:28:A:ALA:C	12	2.6
(1,73)	1:94:A:GLN:C	1:95:A:VAL:N	1:95:A:VAL:CA	1:95:A:VAL:C	4	2.59
(1,212)	1:52:A:ALA:N	1:52:A:ALA:CA	1:52:A:ALA:C	1:53:A:PRO:N	11	2.58
(1,71)	1:90:A:ARG:C	1:91:A:GLY:N	1:91:A:GLY:CA	1:91:A:GLY:C	17	2.58
(1,23)	1:38:A:ALA:C	1:39:A:PRO:N	1:39:A:PRO:CA	1:39:A:PRO:C	10	2.58
(1,336)	1:228:A:SER:N	1:228:A:SER:CA	1:228:A:SER:C	1:229:A:GLY:N	8	2.57
(1,232)	1:73:A:ILE:N	1:73:A:ILE:CA	1:73:A:ILE:C	1:74:A:LEU:N	8	2.57
(1,23)	1:38:A:ALA:C	1:39:A:PRO:N	1:39:A:PRO:CA	1:39:A:PRO:C	19	2.57
(1,333)	1:225:A:GLY:N	1:225:A:GLY:CA	1:225:A:GLY:C	1:226:A:PHE:N	9	2.56
(1,40)	1:55:A:LEU:C	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	12	2.54
(1,153)	1:194:A:GLY:C	1:195:A:VAL:N	1:195:A:VAL:CA	1:195:A:VAL:C	12	2.51
(1,52)	1:68:A:PRO:C	1:69:A:HIS:N	1:69:A:HIS:CA	1:69:A:HIS:C	6	2.51

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,232)	1:73:A:ILE:N	1:73:A:ILE:CA	1:73:A:ILE:C	1:74:A:LEU:N	10	2.49
(1,193)	1:29:A:CYS:N	1:29:A:CYS:CA	1:29:A:CYS:C	1:30:A:LYS:N	7	2.48
(1,34)	1:49:A:LYS:C	1:50:A:TYR:N	1:50:A:TYR:CA	1:50:A:TYR:C	19	2.48
(1,73)	1:94:A:GLN:C	1:95:A:VAL:N	1:95:A:VAL:CA	1:95:A:VAL:C	20	2.47
(1,59)	1:76:A:VAL:C	1:77:A:ALA:N	1:77:A:ALA:CA	1:77:A:ALA:C	2	2.47
(1,266)	1:116:A:HIS:N	1:116:A:HIS:CA	1:116:A:HIS:C	1:117:A:LEU:N	20	2.46
(1,212)	1:52:A:ALA:N	1:52:A:ALA:CA	1:52:A:ALA:C	1:53:A:PRO:N	1	2.42
(1,232)	1:73:A:ILE:N	1:73:A:ILE:CA	1:73:A:ILE:C	1:74:A:LEU:N	6	2.4
(1,260)	1:107:A:GLN:N	1:107:A:GLN:CA	1:107:A:GLN:C	1:108:A:ALA:N	13	2.39
(1,343)	1:236:A:LYS:N	1:236:A:LYS:CA	1:236:A:LYS:C	1:237:A:GLN:N	5	2.38
(1,156)	1:197:A:GLU:C	1:198:A:CYS:N	1:198:A:CYS:CA	1:198:A:CYS:C	19	2.38
(1,75)	1:96:A:GLN:C	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	8	2.38
(1,156)	1:197:A:GLU:C	1:198:A:CYS:N	1:198:A:CYS:CA	1:198:A:CYS:C	9	2.34
(1,306)	1:176:A:ASN:N	1:176:A:ASN:CA	1:176:A:ASN:C	1:177:A:LEU:N	1	2.32
(1,276)	1:132:A:GLY:N	1:132:A:GLY:CA	1:132:A:GLY:C	1:133:A:THR:N	3	2.32
(1,34)	1:49:A:LYS:C	1:50:A:TYR:N	1:50:A:TYR:CA	1:50:A:TYR:C	10	2.32
(1,297)	1:160:A:THR:N	1:160:A:THR:CA	1:160:A:THR:C	1:161:A:LYS:N	11	2.31
(1,193)	1:29:A:CYS:N	1:29:A:CYS:CA	1:29:A:CYS:C	1:30:A:LYS:N	10	2.3
(1,308)	1:179:A:TYR:N	1:179:A:TYR:CA	1:179:A:TYR:C	1:180:A:LYS:N	5	2.29
(1,193)	1:29:A:CYS:N	1:29:A:CYS:CA	1:29:A:CYS:C	1:30:A:LYS:N	15	2.28
(1,15)	1:27:A:LEU:C	1:28:A:ALA:N	1:28:A:ALA:CA	1:28:A:ALA:C	17	2.27
(1,175)	1:234:A:TYR:C	1:235:A:ARG:N	1:235:A:ARG:CA	1:235:A:ARG:C	2	2.26
(1,34)	1:49:A:LYS:C	1:50:A:TYR:N	1:50:A:TYR:CA	1:50:A:TYR:C	11	2.25
(1,10)	1:18:A:VAL:C	1:19:A:GLY:N	1:19:A:GLY:CA	1:19:A:GLY:C	15	2.22
(1,233)	1:74:A:LEU:N	1:74:A:LEU:CA	1:74:A:LEU:C	1:75:A:ASP:N	3	2.2
(1,138)	1:178:A:PRO:C	1:179:A:TYR:N	1:179:A:TYR:CA	1:179:A:TYR:C	17	2.19
(1,168)	1:225:A:GLY:C	1:226:A:PHE:N	1:226:A:PHE:CA	1:226:A:PHE:C	11	2.18
(1,325)	1:200:A:VAL:N	1:200:A:VAL:CA	1:200:A:VAL:C	1:201:A:THR:N	13	2.14
(1,247)	1:91:A:GLY:N	1:91:A:GLY:CA	1:91:A:GLY:C	1:92:A:PHE:N	17	2.14
(1,266)	1:116:A:HIS:N	1:116:A:HIS:CA	1:116:A:HIS:C	1:117:A:LEU:N	14	2.11
(1,134)	1:169:A:THR:C	1:170:A:THR:N	1:170:A:THR:CA	1:170:A:THR:C	11	2.1
(1,96)	1:125:A:GLU:C	1:126:A:PRO:N	1:126:A:PRO:CA	1:126:A:PRO:C	12	2.1
(1,40)	1:55:A:LEU:C	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	17	2.09
(1,230)	1:71:A:ALA:N	1:71:A:ALA:CA	1:71:A:ALA:C	1:72:A:LEU:N	7	2.04
(1,152)	1:192:A:ARG:C	1:193:A:ALA:N	1:193:A:ALA:CA	1:193:A:ALA:C	2	2.04
(1,308)	1:179:A:TYR:N	1:179:A:TYR:CA	1:179:A:TYR:C	1:180:A:LYS:N	1	2.02
(1,185)	1:17:A:ARG:N	1:17:A:ARG:CA	1:17:A:ARG:C	1:18:A:VAL:N	11	2.02
(1,53)	1:69:A:HIS:C	1:70:A:ASP:N	1:70:A:ASP:CA	1:70:A:ASP:C	6	2.01
(1,7)	1:15:A:LEU:C	1:16:A:ALA:N	1:16:A:ALA:CA	1:16:A:ALA:C	3	2.01
(1,102)	1:133:A:THR:C	1:134:A:PHE:N	1:134:A:PHE:CA	1:134:A:PHE:C	8	1.97
(1,160)	1:201:A:THR:C	1:202:A:GLN:N	1:202:A:GLN:CA	1:202:A:GLN:C	20	1.94
(1,25)	1:40:A:GLU:C	1:41:A:TYR:N	1:41:A:TYR:CA	1:41:A:TYR:C	13	1.91
(1,266)	1:116:A:HIS:N	1:116:A:HIS:CA	1:116:A:HIS:C	1:117:A:LEU:N	5	1.9
(1,251)	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	1:98:A:VAL:N	7	1.9
(1,171)	1:229:A:GLY:C	1:230:A:ILE:N	1:230:A:ILE:CA	1:230:A:ILE:C	18	1.9
(1,153)	1:194:A:GLY:C	1:195:A:VAL:N	1:195:A:VAL:CA	1:195:A:VAL:C	3	1.9
(1,308)	1:179:A:TYR:N	1:179:A:TYR:CA	1:179:A:TYR:C	1:180:A:LYS:N	10	1.89
(1,102)	1:133:A:THR:C	1:134:A:PHE:N	1:134:A:PHE:CA	1:134:A:PHE:C	9	1.88
(1,64)	1:83:A:VAL:C	1:84:A:ALA:N	1:84:A:ALA:CA	1:84:A:ALA:C	3	1.88
(1,58)	1:74:A:LEU:C	1:75:A:ASP:N	1:75:A:ASP:CA	1:75:A:ASP:C	2	1.88
(1,59)	1:76:A:VAL:C	1:77:A:ALA:N	1:77:A:ALA:CA	1:77:A:ALA:C	1	1.87

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,233)	1:74:A:LEU:N	1:74:A:LEU:CA	1:74:A:LEU:C	1:75:A:ASP:N	17	1.86
(1,113)	1:147:A:GLN:C	1:148:A:VAL:N	1:148:A:VAL:CA	1:148:A:VAL:C	2	1.86
(1,36)	1:51:A:ARG:C	1:52:A:ALA:N	1:52:A:ALA:CA	1:52:A:ALA:C	10	1.85
(1,260)	1:107:A:GLN:N	1:107:A:GLN:CA	1:107:A:GLN:C	1:108:A:ALA:N	4	1.84
(1,193)	1:29:A:CYS:N	1:29:A:CYS:CA	1:29:A:CYS:C	1:30:A:LYS:N	18	1.84
(1,75)	1:96:A:GLN:C	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	9	1.84
(1,251)	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	1:98:A:VAL:N	18	1.83
(1,102)	1:133:A:THR:C	1:134:A:PHE:N	1:134:A:PHE:CA	1:134:A:PHE:C	2	1.81
(1,73)	1:94:A:GLN:C	1:95:A:VAL:N	1:95:A:VAL:CA	1:95:A:VAL:C	16	1.81
(1,193)	1:29:A:CYS:N	1:29:A:CYS:CA	1:29:A:CYS:C	1:30:A:LYS:N	8	1.8
(1,156)	1:197:A:GLU:C	1:198:A:CYS:N	1:198:A:CYS:CA	1:198:A:CYS:C	10	1.79
(1,102)	1:133:A:THR:C	1:134:A:PHE:N	1:134:A:PHE:CA	1:134:A:PHE:C	20	1.79
(1,343)	1:236:A:LYS:N	1:236:A:LYS:CA	1:236:A:LYS:C	1:237:A:GLN:N	10	1.78
(1,156)	1:197:A:GLU:C	1:198:A:CYS:N	1:198:A:CYS:CA	1:198:A:CYS:C	1	1.76
(1,156)	1:197:A:GLU:C	1:198:A:CYS:N	1:198:A:CYS:CA	1:198:A:CYS:C	4	1.76
(1,7)	1:15:A:LEU:C	1:16:A:ALA:N	1:16:A:ALA:CA	1:16:A:ALA:C	11	1.76
(1,247)	1:91:A:GLY:N	1:91:A:GLY:CA	1:91:A:GLY:C	1:92:A:PHE:N	6	1.75
(1,233)	1:74:A:LEU:N	1:74:A:LEU:CA	1:74:A:LEU:C	1:75:A:ASP:N	2	1.75
(1,193)	1:29:A:CYS:N	1:29:A:CYS:CA	1:29:A:CYS:C	1:30:A:LYS:N	14	1.74
(1,260)	1:107:A:GLN:N	1:107:A:GLN:CA	1:107:A:GLN:C	1:108:A:ALA:N	11	1.73
(1,325)	1:200:A:VAL:N	1:200:A:VAL:CA	1:200:A:VAL:C	1:201:A:THR:N	8	1.72
(1,266)	1:116:A:HIS:N	1:116:A:HIS:CA	1:116:A:HIS:C	1:117:A:LEU:N	17	1.72
(1,233)	1:74:A:LEU:N	1:74:A:LEU:CA	1:74:A:LEU:C	1:75:A:ASP:N	4	1.72
(1,193)	1:29:A:CYS:N	1:29:A:CYS:CA	1:29:A:CYS:C	1:30:A:LYS:N	19	1.71
(1,236)	1:78:A:CYS:N	1:78:A:CYS:CA	1:78:A:CYS:C	1:79:A:GLY:N	18	1.7
(1,193)	1:29:A:CYS:N	1:29:A:CYS:CA	1:29:A:CYS:C	1:30:A:LYS:N	12	1.7
(1,193)	1:29:A:CYS:N	1:29:A:CYS:CA	1:29:A:CYS:C	1:30:A:LYS:N	3	1.69
(1,193)	1:29:A:CYS:N	1:29:A:CYS:CA	1:29:A:CYS:C	1:30:A:LYS:N	5	1.69
(1,81)	1:103:A:GLU:C	1:104:A:MET:N	1:104:A:MET:CA	1:104:A:MET:C	9	1.69
(1,266)	1:116:A:HIS:N	1:116:A:HIS:CA	1:116:A:HIS:C	1:117:A:LEU:N	19	1.68
(1,75)	1:96:A:GLN:C	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	18	1.68
(1,7)	1:15:A:LEU:C	1:16:A:ALA:N	1:16:A:ALA:CA	1:16:A:ALA:C	18	1.68
(1,171)	1:229:A:GLY:C	1:230:A:ILE:N	1:230:A:ILE:CA	1:230:A:ILE:C	5	1.65
(1,193)	1:29:A:CYS:N	1:29:A:CYS:CA	1:29:A:CYS:C	1:30:A:LYS:N	17	1.64
(1,185)	1:17:A:ARG:N	1:17:A:ARG:CA	1:17:A:ARG:C	1:18:A:VAL:N	16	1.64
(1,193)	1:29:A:CYS:N	1:29:A:CYS:CA	1:29:A:CYS:C	1:30:A:LYS:N	6	1.62
(1,185)	1:17:A:ARG:N	1:17:A:ARG:CA	1:17:A:ARG:C	1:18:A:VAL:N	18	1.62
(1,3)	1:11:A:LEU:C	1:12:A:PRO:N	1:12:A:PRO:CA	1:12:A:PRO:C	11	1.62
(1,186)	1:18:A:VAL:N	1:18:A:VAL:CA	1:18:A:VAL:C	1:19:A:GLY:N	1	1.61
(1,185)	1:17:A:ARG:N	1:17:A:ARG:CA	1:17:A:ARG:C	1:18:A:VAL:N	20	1.61
(1,61)	1:80:A:THR:C	1:81:A:GLY:N	1:81:A:GLY:CA	1:81:A:GLY:C	20	1.61
(1,73)	1:94:A:GLN:C	1:95:A:VAL:N	1:95:A:VAL:CA	1:95:A:VAL:C	2	1.6
(1,58)	1:74:A:LEU:C	1:75:A:ASP:N	1:75:A:ASP:CA	1:75:A:ASP:C	17	1.6
(1,153)	1:194:A:GLY:C	1:195:A:VAL:N	1:195:A:VAL:CA	1:195:A:VAL:C	17	1.59
(1,75)	1:96:A:GLN:C	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	14	1.59
(1,7)	1:15:A:LEU:C	1:16:A:ALA:N	1:16:A:ALA:CA	1:16:A:ALA:C	4	1.59
(1,193)	1:29:A:CYS:N	1:29:A:CYS:CA	1:29:A:CYS:C	1:30:A:LYS:N	4	1.58
(1,266)	1:116:A:HIS:N	1:116:A:HIS:CA	1:116:A:HIS:C	1:117:A:LEU:N	8	1.56
(1,260)	1:107:A:GLN:N	1:107:A:GLN:CA	1:107:A:GLN:C	1:108:A:ALA:N	8	1.55
(1,233)	1:74:A:LEU:N	1:74:A:LEU:CA	1:74:A:LEU:C	1:75:A:ASP:N	19	1.55
(1,160)	1:201:A:THR:C	1:202:A:GLN:N	1:202:A:GLN:CA	1:202:A:GLN:C	3	1.55

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,153)	1:194:A:GLY:C	1:195:A:VAL:N	1:195:A:VAL:CA	1:195:A:VAL:C	8	1.55
(1,99)	1:129:A:ASP:C	1:130:A:PRO:N	1:130:A:PRO:CA	1:130:A:PRO:C	16	1.54
(1,99)	1:129:A:ASP:C	1:130:A:PRO:N	1:130:A:PRO:CA	1:130:A:PRO:C	19	1.53
(1,40)	1:55:A:LEU:C	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	16	1.52
(1,224)	1:64:A:PHE:N	1:64:A:PHE:CA	1:64:A:PHE:C	1:65:A:ARG:N	19	1.48
(1,99)	1:129:A:ASP:C	1:130:A:PRO:N	1:130:A:PRO:CA	1:130:A:PRO:C	20	1.47
(1,40)	1:55:A:LEU:C	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	10	1.47
(1,40)	1:55:A:LEU:C	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	15	1.47
(1,286)	1:148:A:VAL:N	1:148:A:VAL:CA	1:148:A:VAL:C	1:149:A:PRO:N	11	1.46
(1,224)	1:64:A:PHE:N	1:64:A:PHE:CA	1:64:A:PHE:C	1:65:A:ARG:N	20	1.45
(1,94)	1:118:A:SER:C	1:119:A:LEU:N	1:119:A:LEU:CA	1:119:A:LEU:C	4	1.45
(1,59)	1:76:A:VAL:C	1:77:A:ALA:N	1:77:A:ALA:CA	1:77:A:ALA:C	9	1.44
(1,260)	1:107:A:GLN:N	1:107:A:GLN:CA	1:107:A:GLN:C	1:108:A:ALA:N	2	1.42
(1,185)	1:17:A:ARG:N	1:17:A:ARG:CA	1:17:A:ARG:C	1:18:A:VAL:N	14	1.42
(1,251)	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	1:98:A:VAL:N	14	1.4
(1,186)	1:18:A:VAL:N	1:18:A:VAL:CA	1:18:A:VAL:C	1:19:A:GLY:N	15	1.39
(1,64)	1:83:A:VAL:C	1:84:A:ALA:N	1:84:A:ALA:CA	1:84:A:ALA:C	15	1.39
(1,64)	1:83:A:VAL:C	1:84:A:ALA:N	1:84:A:ALA:CA	1:84:A:ALA:C	10	1.38
(1,64)	1:83:A:VAL:C	1:84:A:ALA:N	1:84:A:ALA:CA	1:84:A:ALA:C	16	1.38
(1,332)	1:209:A:LEU:N	1:209:A:LEU:CA	1:209:A:LEU:C	1:210:A:ALA:N	17	1.37
(1,334)	1:226:A:PHE:N	1:226:A:PHE:CA	1:226:A:PHE:C	1:227:A:ILE:N	10	1.35
(1,306)	1:176:A:ASN:N	1:176:A:ASN:CA	1:176:A:ASN:C	1:177:A:LEU:N	6	1.35
(1,233)	1:74:A:LEU:N	1:74:A:LEU:CA	1:74:A:LEU:C	1:75:A:ASP:N	16	1.35
(1,75)	1:96:A:GLN:C	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	4	1.34
(1,260)	1:107:A:GLN:N	1:107:A:GLN:CA	1:107:A:GLN:C	1:108:A:ALA:N	6	1.31
(1,233)	1:74:A:LEU:N	1:74:A:LEU:CA	1:74:A:LEU:C	1:75:A:ASP:N	14	1.31
(1,64)	1:83:A:VAL:C	1:84:A:ALA:N	1:84:A:ALA:CA	1:84:A:ALA:C	5	1.31
(1,64)	1:83:A:VAL:C	1:84:A:ALA:N	1:84:A:ALA:CA	1:84:A:ALA:C	17	1.31
(1,7)	1:15:A:LEU:C	1:16:A:ALA:N	1:16:A:ALA:CA	1:16:A:ALA:C	14	1.3
(1,329)	1:206:A:HIS:N	1:206:A:HIS:CA	1:206:A:HIS:C	1:207:A:TRP:N	12	1.29
(1,212)	1:52:A:ALA:N	1:52:A:ALA:CA	1:52:A:ALA:C	1:53:A:PRO:N	8	1.29
(1,233)	1:74:A:LEU:N	1:74:A:LEU:CA	1:74:A:LEU:C	1:75:A:ASP:N	15	1.28
(1,59)	1:76:A:VAL:C	1:77:A:ALA:N	1:77:A:ALA:CA	1:77:A:ALA:C	19	1.28
(1,40)	1:55:A:LEU:C	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	13	1.26
(1,294)	1:156:A:LEU:N	1:156:A:LEU:CA	1:156:A:LEU:C	1:157:A:LEU:N	11	1.25
(1,286)	1:148:A:VAL:N	1:148:A:VAL:CA	1:148:A:VAL:C	1:149:A:PRO:N	8	1.25
(1,306)	1:176:A:ASN:N	1:176:A:ASN:CA	1:176:A:ASN:C	1:177:A:LEU:N	16	1.24
(1,210)	1:49:A:LYS:N	1:49:A:LYS:CA	1:49:A:LYS:C	1:50:A:TYR:N	6	1.23
(1,306)	1:176:A:ASN:N	1:176:A:ASN:CA	1:176:A:ASN:C	1:177:A:LEU:N	3	1.2
(1,134)	1:169:A:THR:C	1:170:A:THR:N	1:170:A:THR:CA	1:170:A:THR:C	4	1.2
(1,134)	1:169:A:THR:C	1:170:A:THR:N	1:170:A:THR:CA	1:170:A:THR:C	15	1.2
(1,58)	1:74:A:LEU:C	1:75:A:ASP:N	1:75:A:ASP:CA	1:75:A:ASP:C	7	1.2
(1,330)	1:207:A:TRP:N	1:207:A:TRP:CA	1:207:A:TRP:C	1:208:A:GLU:N	19	1.19
(1,160)	1:201:A:THR:C	1:202:A:GLN:N	1:202:A:GLN:CA	1:202:A:GLN:C	8	1.18
(1,7)	1:15:A:LEU:C	1:16:A:ALA:N	1:16:A:ALA:CA	1:16:A:ALA:C	2	1.18
(1,156)	1:197:A:GLU:C	1:198:A:CYS:N	1:198:A:CYS:CA	1:198:A:CYS:C	11	1.17
(1,64)	1:83:A:VAL:C	1:84:A:ALA:N	1:84:A:ALA:CA	1:84:A:ALA:C	7	1.17
(1,324)	1:198:A:CYS:N	1:198:A:CYS:CA	1:198:A:CYS:C	1:199:A:LEU:N	3	1.15
(1,334)	1:226:A:PHE:N	1:226:A:PHE:CA	1:226:A:PHE:C	1:227:A:ILE:N	15	1.14
(1,15)	1:27:A:LEU:C	1:28:A:ALA:N	1:28:A:ALA:CA	1:28:A:ALA:C	19	1.14
(1,334)	1:226:A:PHE:N	1:226:A:PHE:CA	1:226:A:PHE:C	1:227:A:ILE:N	5	1.12

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,15)	1:27:A:LEU:C	1:28:A:ALA:N	1:28:A:ALA:CA	1:28:A:ALA:C	7	1.1
(1,154)	1:195:A:VAL:C	1:196:A:TRP:N	1:196:A:TRP:CA	1:196:A:TRP:C	2	1.08
(1,336)	1:228:A:SER:N	1:228:A:SER:CA	1:228:A:SER:C	1:229:A:GLY:N	6	1.07
(1,64)	1:83:A:VAL:C	1:84:A:ALA:N	1:84:A:ALA:CA	1:84:A:ALA:C	4	1.07
(1,189)	1:22:A:HIS:N	1:22:A:HIS:CA	1:22:A:HIS:C	1:23:A:GLY:N	18	1.06
(1,64)	1:83:A:VAL:C	1:84:A:ALA:N	1:84:A:ALA:CA	1:84:A:ALA:C	8	1.06
(1,266)	1:116:A:HIS:N	1:116:A:HIS:CA	1:116:A:HIS:C	1:117:A:LEU:N	13	1.03
(1,61)	1:80:A:THR:C	1:81:A:GLY:N	1:81:A:GLY:CA	1:81:A:GLY:C	9	1.03
(1,58)	1:74:A:LEU:C	1:75:A:ASP:N	1:75:A:ASP:CA	1:75:A:ASP:C	4	1.03
(1,59)	1:76:A:VAL:C	1:77:A:ALA:N	1:77:A:ALA:CA	1:77:A:ALA:C	5	1.01