



Full wwPDB NMR Structure Validation Report ⓘ

Nov 7, 2023 – 10:32 AM EST

PDB ID : 2M9Q
BMRB ID : 19306
Title : NMR structure of an inhibitor bound dengue NS3 protease
Authors : Gibbs, A.; Steele, R.; Tounge, B.
Deposited on : 2013-06-18

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:

Cyrange : Kirchner and Güntert (2011)
NmrClust : Kelley et al. (1996)
MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
wwPDB-RCI : v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV : Wang et al. (2010)
wwPDB-ShiftChecker : v1.2
BMRB Restraints Analysis : v1.2
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.36

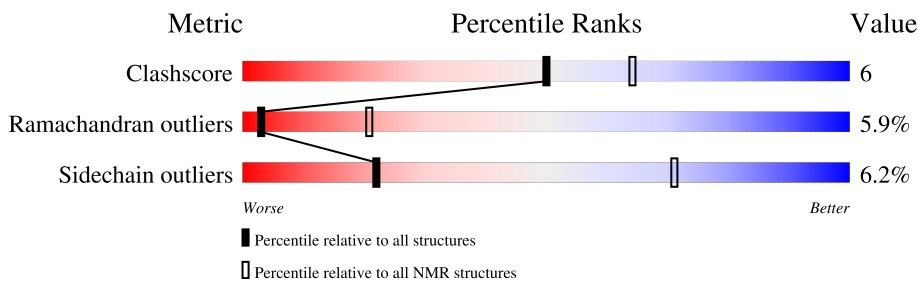
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 48%.

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



Metric	Whole archive (#Entries)	NMR archive (#Entries)
Clashscore	158937	12864
Ramachandran outliers	154571	11451
Sidechain outliers	154315	11428

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

Mol	Chain	Length	Quality of chain
1	A	240	
2	B	5	

2 Ensemble composition and analysis

This entry contains 10 models. Model 3 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *lowest energy*.

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

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:3-A:45, A:64-A:68, A:81-A:231, B:253-B:254 (201)	1.48	3

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 1 clusters. No single-model clusters were found.

Cluster number	Models
1	1, 2, 3, 4, 5, 6, 7, 8, 9, 10

3 Entry composition [i](#)

There are 2 unique types of molecules in this entry. The entry contains 3649 atoms, of which 1813 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Serine protease subunit NS2B, Serine protease NS3.

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	A	240	3542	1121	1757	301	360	3	0

- Molecule 2 is a protein called Serine protease inhibitor.

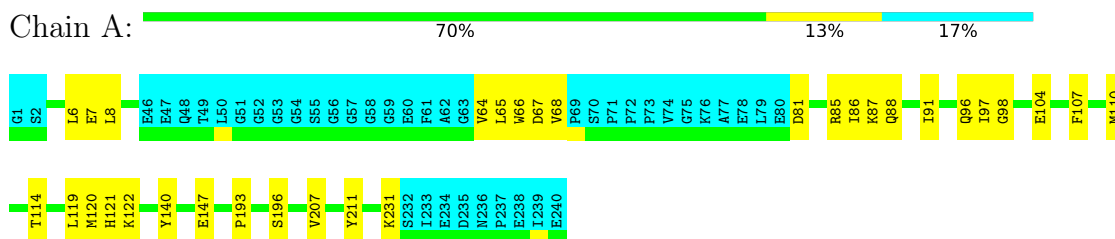
Mol	Chain	Residues	Atoms						Trace
			Total	C	F	H	N	O	
2	B	5	107	32	3	56	11	5	0

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: Serine protease subunit NS2B, Serine protease NS3



- Molecule 2: Serine protease inhibitor

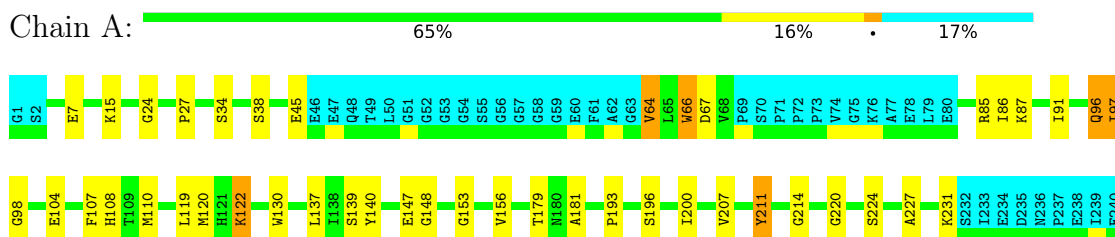


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

- Molecule 1: Serine protease subunit NS2B, Serine protease NS3



- Molecule 2: Serine protease inhibitor

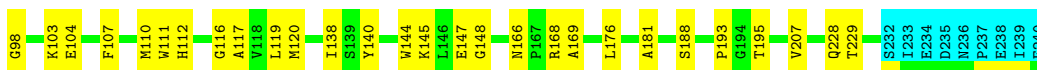
Chain B: 



4.2.2 Score per residue for model 2

- Molecule 1: Serine protease subunit NS2B, Serine protease NS3

Chain A: 



- Molecule 2: Serine protease inhibitor

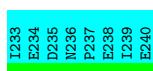
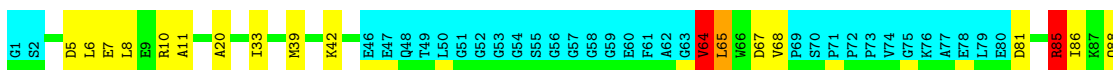
Chain B: 



4.2.3 Score per residue for model 3 (medoid)

- Molecule 1: Serine protease subunit NS2B, Serine protease NS3

Chain A: 



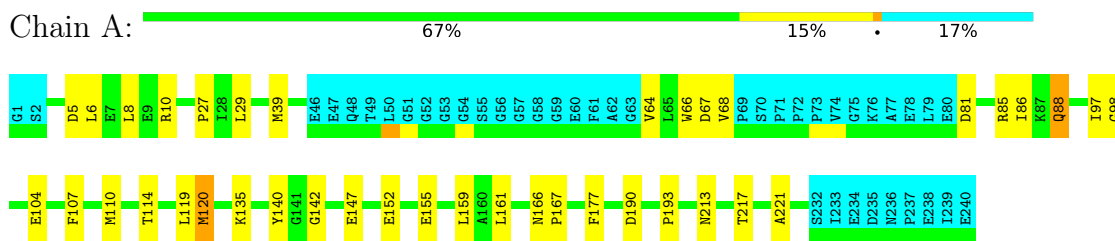
- Molecule 2: Serine protease inhibitor

Chain B: 



4.2.4 Score per residue for model 4

- Molecule 1: Serine protease subunit NS2B, Serine protease NS3

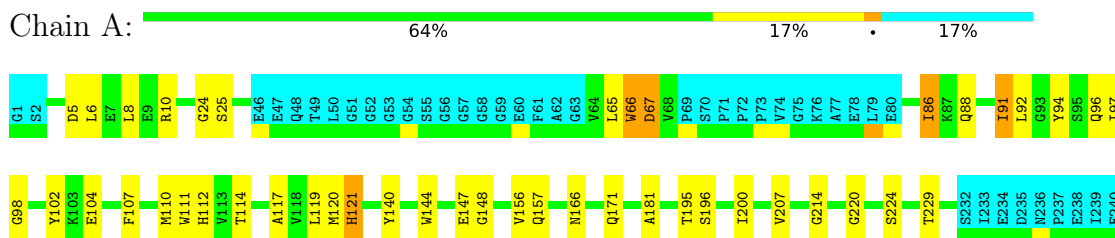


- Molecule 2: Serine protease inhibitor

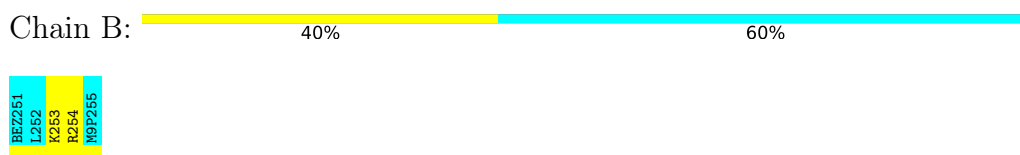


4.2.5 Score per residue for model 5

- Molecule 1: Serine protease subunit NS2B, Serine protease NS3

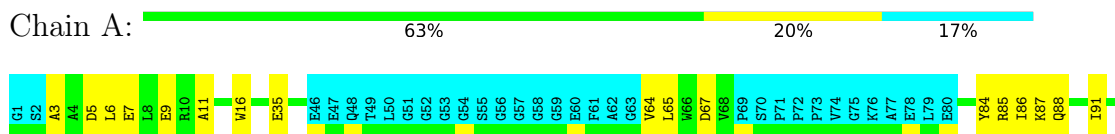


- Molecule 2: Serine protease inhibitor



4.2.6 Score per residue for model 6

- Molecule 1: Serine protease subunit NS2B, Serine protease NS3



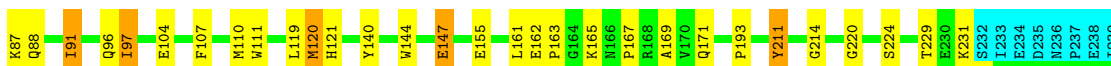
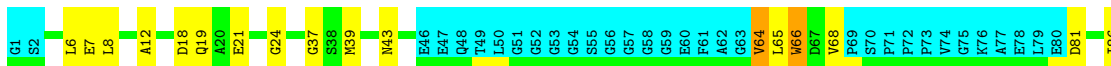


- Molecule 2: Serine protease inhibitor



4.2.7 Score per residue for model 7

- Molecule 1: Serine protease subunit NS2B, Serine protease NS3



- Molecule 2: Serine protease inhibitor



4.2.8 Score per residue for model 8

- Molecule 1: Serine protease subunit NS2B, Serine protease NS3



- Molecule 2: Serine protease inhibitor

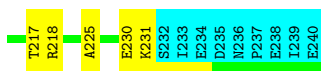
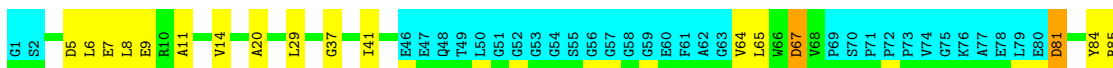
Chain B:  40% 60%



4.2.9 Score per residue for model 9

- Molecule 1: Serine protease subunit NS2B, Serine protease NS3

Chain A:  58% 20% 17%



- Molecule 2: Serine protease inhibitor

Chain B:  20% 20% 60%



4.2.10 Score per residue for model 10

- Molecule 1: Serine protease subunit NS2B, Serine protease NS3

Chain A:  58% 22% 17%



- Molecule 2: Serine protease inhibitor

Chain B:  20% 20% 60%



5 Refinement protocol and experimental data overview

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

Of the 200 calculated structures, 10 were deposited, based on the following criterion: *structures with the lowest energy*.

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

Software name	Classification	Version
CNS	refinement	
X-PLOR	structure solution	
AutoStructure	structure solution	

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	1466
Number of shifts mapped to atoms	1466
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	48%

6 Model quality i

6.1 Standard geometry i

Bond lengths and bond angles in the following residue types are not validated in this section: NLE, M9P, BEZ

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	0.92±0.02	0±0/1539 (0.0± 0.0%)	0.70±0.01	0±0/2081 (0.0± 0.0%)
2	B	0.98±0.09	0±0/19 (0.0± 0.0%)	1.08±0.28	0±0/22 (0.5± 1.4%)
All	All	0.92	1/15580 (0.0%)	0.71	2/21030 (0.0%)

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

Mol	Chain	Chirality	Planarity
1	A	0.0±0.0	0.4±0.5
All	All	0	4

All unique bond outliers are listed below.

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
1	A	196	SER	CB-OG	5.43	1.49	1.42	9	1

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	85	ARG	NE-CZ-NH2	-5.69	117.45	120.30	3	1
2	B	254	ARG	NE-CZ-NH2	-5.50	117.55	120.30	1	1

There are no chirality outliers.

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

Mol	Chain	Res	Type	Group	Models (Total)
1	A	186	ALA	Mainchain	2
1	A	98	GLY	Peptide	1
1	A	89	LYS	Peptide	1

6.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	1508	1509	1506	18±5
2	B	20	26	26	1±1
All	All	15280	15350	15320	183

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 6.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:110:MET:SD	1:A:212:GLY:HA3	0.75	2.22	6	1
1:A:39:MET:SD	1:A:214:GLY:HA2	0.73	2.23	7	2
1:A:65:LEU:HD22	1:A:85:ARG:HH22	0.67	1.50	3	1
1:A:9:GLU:HB2	1:A:65:LEU:HB3	0.63	1.71	6	2
1:A:33:ILE:HG12	1:A:179:THR:HG21	0.63	1.69	3	1
1:A:5:ASP:HA	1:A:120:MET:SD	0.62	2.35	5	2
1:A:185:GLY:HA2	1:A:225:ALA:HA	0.62	1.71	9	2
1:A:101:VAL:HG13	1:A:108:HIS:HB2	0.61	1.72	10	1
1:A:110:MET:SD	1:A:112:HIS:CE1	0.61	2.94	8	3
1:A:108:HIS:HE2	1:A:137:LEU:HD23	0.60	1.56	1	1
1:A:11:ALA:HB2	1:A:85:ARG:HG3	0.60	1.73	2	4
1:A:87:LYS:HB2	1:A:96:GLN:HB3	0.60	1.73	6	1
1:A:88:GLN:HB3	2:B:253:LYS:HB2	0.60	1.73	3	3
1:A:107:PHE:HB3	1:A:140:TYR:HB3	0.59	1.75	1	6
1:A:8:LEU:HB2	1:A:68:VAL:HG12	0.58	1.74	2	1
1:A:91:ILE:HG12	2:B:253:LYS:HD2	0.58	1.75	5	1
1:A:144:TRP:NE1	1:A:229:THR:HA	0.58	2.12	5	2
1:A:97:ILE:HD12	1:A:98:GLY:N	0.58	2.14	4	7
1:A:114:THR:HG23	1:A:116:GLY:H	0.57	1.58	6	2
1:A:161:LEU:HD23	1:A:167:PRO:HB3	0.57	1.74	10	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:156:VAL:HG21	1:A:200:ILE:HG23	0.57	1.76	5	1
1:A:3:ALA:HB1	1:A:6:LEU:HD21	0.57	1.76	8	1
1:A:6:LEU:N	1:A:120:MET:SD	0.56	2.79	7	2
1:A:41:ILE:HD13	1:A:217:THR:HG23	0.55	1.76	9	1
1:A:91:ILE:HD11	2:B:253:LYS:HG2	0.55	1.78	7	1
1:A:190:ASP:HA	1:A:221:ALA:HB1	0.55	1.78	4	1
1:A:95:SER:HB3	2:B:253:LYS:HE3	0.55	1.79	9	1
1:A:86:ILE:HG13	1:A:97:ILE:HG23	0.55	1.77	9	1
1:A:108:HIS:NE2	1:A:137:LEU:HD23	0.55	2.17	1	1
1:A:29:LEU:HD21	1:A:218:ARG:HB2	0.55	1.78	9	1
1:A:113:VAL:HB	2:B:253:LYS:NZ	0.54	2.18	8	1
1:A:8:LEU:HB2	1:A:68:VAL:HG22	0.54	1.80	7	1
1:A:118:VAL:HG23	1:A:127:GLU:HA	0.54	1.78	6	1
1:A:110:MET:SD	1:A:210:LEU:HB3	0.54	2.42	10	1
1:A:65:LEU:HD21	1:A:96:GLN:HB3	0.54	1.79	3	1
1:A:113:VAL:HG12	1:A:196:SER:HB3	0.54	1.79	8	1
1:A:40:SER:HA	1:A:215:VAL:HG11	0.53	1.79	8	1
1:A:6:LEU:HG	1:A:88:GLN:HG3	0.53	1.80	6	1
1:A:214:GLY:HA3	1:A:224:SER:HA	0.53	1.80	5	3
1:A:107:PHE:HB3	1:A:140:TYR:HB2	0.53	1.81	5	2
1:A:98:GLY:HA2	1:A:195:THR:HB	0.52	1.79	9	1
1:A:97:ILE:HD12	2:B:253:LYS:N	0.52	2.18	1	1
1:A:29:LEU:HB3	1:A:177:PHE:HB3	0.52	1.81	4	1
1:A:21:GLU:HB2	1:A:171:GLN:HB2	0.51	1.82	7	1
1:A:137:LEU:HD11	1:A:227:ALA:HB1	0.51	1.80	1	1
1:A:211:TYR:HB2	1:A:224:SER:HB3	0.51	1.82	8	1
1:A:193:PRO:HA	1:A:216:VAL:HG11	0.51	1.82	3	1
1:A:110:MET:HE1	1:A:212:GLY:HA2	0.50	1.82	8	1
1:A:144:TRP:HE1	1:A:229:THR:HA	0.50	1.66	2	3
1:A:148:GLY:HA3	1:A:207:VAL:O	0.50	2.07	5	1
1:A:6:LEU:HB2	1:A:119:LEU:HA	0.49	1.85	8	2
1:A:130:TRP:HB3	1:A:139:SER:HB2	0.49	1.84	1	2
1:A:6:LEU:HD11	1:A:117:ALA:HB3	0.49	1.84	2	2
1:A:199:PRO:HA	1:A:210:LEU:HA	0.49	1.85	8	1
1:A:157:GLN:HG2	1:A:171:GLN:HG3	0.49	1.85	5	1
1:A:147:GLU:HG3	1:A:209:GLY:HA2	0.48	1.84	8	1
1:A:64:VAL:O	1:A:122:LYS:HD2	0.48	2.08	3	2
1:A:41:ILE:HD13	1:A:217:THR:HA	0.48	1.83	8	1
1:A:66:TRP:CD1	1:A:122:LYS:HE3	0.48	2.43	1	2
1:A:64:VAL:HG13	1:A:89:LYS:HE3	0.48	1.84	3	1
1:A:110:MET:SD	1:A:211:TYR:O	0.48	2.72	7	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:209:GLY:HA2	1:A:229:THR:HG23	0.48	1.84	3	1
1:A:200:ILE:HG13	1:A:208:VAL:HB	0.48	1.85	8	1
1:A:10:ARG:H	1:A:67:ASP:HB3	0.48	1.68	3	3
1:A:116:GLY:HA2	1:A:138:ILE:HD13	0.48	1.86	2	1
1:A:119:LEU:HG	1:A:140:TYR:CZ	0.48	2.44	5	1
1:A:148:GLY:HA3	1:A:207:VAL:HA	0.47	1.86	1	1
1:A:84:TYR:O	1:A:99:ALA:HA	0.47	2.09	9	2
1:A:101:VAL:HG23	1:A:108:HIS:HB2	0.47	1.85	8	1
1:A:6:LEU:HD23	1:A:88:GLN:HB2	0.47	1.87	5	2
1:A:109:THR:HG23	1:A:138:ILE:HB	0.46	1.85	3	1
1:A:207:VAL:HG13	1:A:208:VAL:HG23	0.46	1.86	8	1
1:A:41:ILE:HG13	1:A:43:ASN:H	0.46	1.71	10	1
1:A:89:LYS:HA	1:A:94:TYR:HA	0.46	1.86	3	2
1:A:64:VAL:HG13	1:A:87:LYS:HD3	0.46	1.86	7	1
1:A:68:VAL:HG13	1:A:121:HIS:HB2	0.46	1.88	3	1
1:A:149:GLU:HG2	1:A:228:GLN:HB2	0.45	1.87	8	1
1:A:164:GLY:HA2	1:A:192:SER:HB2	0.45	1.87	6	1
1:A:196:SER:HA	1:A:211:TYR:CE2	0.45	2.47	9	1
1:A:14:VAL:HG21	1:A:101:VAL:HG23	0.45	1.88	10	1
1:A:7:GLU:HG2	1:A:64:VAL:HB	0.45	1.87	3	1
1:A:24:GLY:HA2	1:A:190:ASP:H	0.45	1.70	8	1
1:A:7:GLU:HA	1:A:120:MET:O	0.45	2.11	8	3
1:A:64:VAL:HG23	1:A:87:LYS:HD2	0.45	1.88	2	1
1:A:39:MET:SD	1:A:213:ASN:O	0.45	2.75	4	1
1:A:159:LEU:HB2	1:A:199:PRO:HD2	0.44	1.89	10	1
1:A:208:VAL:HG11	1:A:226:ILE:HG23	0.44	1.89	8	1
1:A:156:VAL:HG11	1:A:200:ILE:HG23	0.44	1.89	1	1
1:A:188:SER:HA	1:A:223:VAL:HG13	0.44	1.89	8	1
1:A:150:TRP:HA	1:A:208:VAL:HG13	0.44	1.89	6	1
1:A:68:VAL:HG22	1:A:121:HIS:HB2	0.44	1.90	8	1
1:A:231:LYS:HD3	1:A:231:LYS:H	0.44	1.72	10	1
1:A:102:TYR:HD2	1:A:107:PHE:HB2	0.44	1.73	6	1
1:A:171:GLN:NE2	1:A:203:LYS:HE3	0.43	2.28	3	1
1:A:156:VAL:HG11	1:A:208:VAL:HG11	0.43	1.90	3	1
1:A:172:THR:HB	1:A:189:LEU:HD12	0.43	1.90	3	1
1:A:159:LEU:HB2	1:A:167:PRO:HB2	0.43	1.90	4	1
1:A:88:GLN:H	1:A:97:ILE:HD11	0.43	1.74	7	1
1:A:217:THR:HG23	1:A:221:ALA:HB3	0.43	1.89	10	1
1:A:113:VAL:HB	2:B:253:LYS:HZ2	0.43	1.73	8	1
1:A:7:GLU:HB3	1:A:64:VAL:HG11	0.43	1.90	1	1
1:A:84:TYR:OH	1:A:102:TYR:HB3	0.43	2.14	9	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:153:GLY:H	1:A:174:PRO:HG2	0.43	1.74	3	1
1:A:7:GLU:HG2	1:A:120:MET:HG2	0.43	1.91	7	1
1:A:5:ASP:H	1:A:6:LEU:HD12	0.42	1.74	9	1
1:A:8:LEU:O	1:A:68:VAL:HG12	0.42	2.14	8	1
1:A:10:ARG:HB3	1:A:67:ASP:HB3	0.42	1.90	5	1
1:A:45:GLU:HG3	2:B:254:ARG:NH2	0.42	2.29	1	1
1:A:108:HIS:NE2	1:A:137:LEU:HB3	0.42	2.30	9	1
1:A:212:GLY:HA3	1:A:225:ALA:O	0.42	2.15	9	1
1:A:179:THR:HG22	1:A:181:ALA:H	0.42	1.75	1	1
1:A:18:ASP:HB3	1:A:169:ALA:HB3	0.42	1.90	2	1
1:A:18:ASP:HB3	1:A:169:ALA:HB2	0.42	1.91	7	1
1:A:97:ILE:HD13	2:B:253:LYS:HD2	0.42	1.90	8	1
1:A:16:TRP:HE1	1:A:157:GLN:HE22	0.42	1.58	6	1
1:A:118:VAL:O	1:A:119:LEU:HD23	0.42	2.15	9	1
1:A:66:TRP:HB3	1:A:121:HIS:CE1	0.41	2.50	5	1
1:A:66:TRP:HB2	1:A:121:HIS:CG	0.41	2.50	7	1
1:A:66:TRP:HE1	1:A:122:LYS:HG2	0.41	1.75	10	1
1:A:65:LEU:HD21	1:A:96:GLN:NE2	0.41	2.29	2	1
1:A:168:ARG:NE	1:A:168:ARG:HA	0.41	2.30	2	1
1:A:159:LEU:HB3	1:A:199:PRO:HG2	0.41	1.92	8	1
1:A:102:TYR:HB2	1:A:107:PHE:CD2	0.41	2.50	5	1
1:A:189:LEU:HD22	1:A:191:PHE:HB2	0.41	1.91	8	1
1:A:34:SER:HB2	1:A:38:SER:HB2	0.41	1.93	1	1
1:A:162:GLU:HB3	1:A:165:LYS:HB2	0.41	1.91	7	1
1:A:7:GLU:HB3	1:A:64:VAL:O	0.41	2.16	8	1
1:A:87:LYS:HD2	1:A:96:GLN:HB3	0.41	1.92	8	1
1:A:110:MET:HG3	1:A:136:ASP:O	0.41	2.16	8	1
1:A:6:LEU:HA	1:A:88:GLN:HB2	0.41	1.93	4	1
2:B:253:LYS:HD2	2:B:253:LYS:N	0.41	2.31	8	1
1:A:196:SER:HA	1:A:211:TYR:CE1	0.40	2.52	1	1
1:A:64:VAL:HA	1:A:87:LYS:HZ2	0.40	1.75	1	1
1:A:26:SER:HB2	1:A:188:SER:HB3	0.40	1.93	2	1
1:A:68:VAL:HB	1:A:121:HIS:HB2	0.40	1.92	7	1
1:A:217:THR:HG22	1:A:221:ALA:O	0.40	2.16	4	1
1:A:90:GLY:O	2:B:253:LYS:NZ	0.40	2.54	10	1
1:A:5:ASP:O	1:A:88:GLN:HA	0.40	2.16	3	1

6.3 Torsion angles [i](#)

6.3.1 Protein backbone [i](#)

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	199/240 (83%)	158±5 (79±3%)	30±5 (15±3%)	11±3 (6±2%)	3	22
2	B	2/5 (40%)	1±1 (35±32%)	1±1 (35±32%)	1±1 (30±33%)	0	1
All	All	2010/2450 (82%)	1589 (79%)	302 (15%)	119 (6%)	3	21

All 47 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	147	GLU	8
1	A	67	ASP	7
1	A	193	PRO	7
1	A	64	VAL	6
1	A	81	ASP	6
1	A	91	ILE	5
1	A	104	GLU	5
1	A	231	LYS	5
1	A	220	GLY	4
1	A	207	VAL	4
2	B	254	ARG	4
1	A	24	GLY	3
1	A	27	PRO	3
1	A	20	ALA	3
1	A	65	LEU	3
1	A	181	ALA	3
1	A	122	LYS	2
1	A	153	GLY	2
2	B	253	LYS	2
1	A	25	SER	2
1	A	142	GLY	2
1	A	3	ALA	2
1	A	215	VAL	2
1	A	226	ILE	2
1	A	37	GLY	2
1	A	146	LEU	2

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Mol	Chain	Res	Type	Models (Total)
1	A	186	ALA	2
1	A	187	VAL	2
1	A	148	GLY	1
1	A	42	LYS	1
1	A	218	ARG	1
1	A	92	LEU	1
1	A	94	TYR	1
1	A	35	GLU	1
1	A	105	GLY	1
1	A	162	GLU	1
1	A	163	PRO	1
1	A	167	PRO	1
1	A	12	ALA	1
1	A	43	ASN	1
1	A	36	ASP	1
1	A	89	LYS	1
1	A	114	THR	1
1	A	152	GLU	1
1	A	196	SER	1
1	A	208	VAL	1
1	A	212	GLY	1

6.3.2 Protein sidechains [i](#)

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	157/185 (85%)	147±4 (94±2%)	10±4 (6±2%)	22 71
2	B	2/2 (100%)	2±0 (85±23%)	0±0 (15±23%)	6 44
All	All	1590/1870 (85%)	1491 (94%)	99 (6%)	22 71

All 51 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	120	MET	6
1	A	66	TRP	5
1	A	211	TYR	5

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Mol	Chain	Res	Type	Models (Total)
1	A	8	LEU	5
1	A	111	TRP	4
1	A	166	ASN	4
1	A	176	LEU	4
1	A	97	ILE	3
1	A	88	GLN	3
1	A	152	GLU	3
1	A	230	GLU	3
2	B	253	LYS	3
1	A	96	GLN	2
1	A	228	GLN	2
1	A	64	VAL	2
1	A	121	HIS	2
1	A	68	VAL	2
1	A	155	GLU	2
1	A	91	ILE	2
1	A	19	GLN	2
1	A	231	LYS	2
1	A	149	GLU	2
1	A	177	PHE	2
1	A	184	ILE	2
1	A	15	LYS	1
1	A	87	LYS	1
1	A	103	LYS	1
1	A	85	ARG	1
1	A	115	ARG	1
1	A	110	MET	1
1	A	135	LYS	1
1	A	65	LEU	1
1	A	86	ILE	1
1	A	195	THR	1
1	A	5	ASP	1
1	A	218	ARG	1
1	A	104	GLU	1
1	A	147	GLU	1
1	A	132	ASP	1
1	A	14	VAL	1
1	A	67	ASP	1
1	A	81	ASP	1
1	A	126	ILE	1
1	A	146	LEU	1
1	A	203	LYS	1

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Mol	Chain	Res	Type	Models (Total)
1	A	17	GLU	1
1	A	44	GLU	1
1	A	101	VAL	1
1	A	122	LYS	1
1	A	157	GLN	1
1	A	178	LYS	1

6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

1 non-standard protein/DNA/RNA residue 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	Counts	Bond lengths	
						RMSZ	#Z>2
2	NLE	B	252	2	6,7,8	1.10±0.22	1±0 (11±7%)

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	Counts	Bond angles	
						RMSZ	#Z>2
2	NLE	B	252	2	2,7,9	0.18±0.10	0±0 (0±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	NLE	B	252	2	-	0±0,5,6,8	-

All unique bond outliers are listed below.

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
2	B	252	NLE	CB-CA	3.36	1.58	1.53	7	7

There are no bond-angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

6.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

6.6 Ligand geometry [i](#)

There are no ligands in this entry.

6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

7 Chemical shift validation [i](#)

The completeness of assignment taking into account all chemical shift lists is 48% for the well-defined parts and 46% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list_1*

7.1.1 Bookkeeping [i](#)

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

Total number of shifts	1466
Number of shifts mapped to atoms	1466
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	12

7.1.2 Chemical shift referencing [i](#)

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction \pm precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	221	-0.01 ± 0.12	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	190	0.40 ± 0.19	None needed (< 0.5 ppm)
$^{13}\text{C}'$	217	-0.46 ± 0.11	None needed (< 0.5 ppm)
^{15}N	208	-0.21 ± 0.15	None needed (< 0.5 ppm)

7.1.3 Completeness of resonance assignments [i](#)

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 48%, i.e. 1261 atoms were assigned a chemical shift out of a possible 2640. 0 out of 29 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	751/1017 (74%)	189/421 (45%)	378/402 (94%)	184/194 (95%)
Sidechain	498/1443 (35%)	253/939 (27%)	242/454 (53%)	3/50 (6%)

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	Total	¹ H	¹³ C	¹⁵ N
Aromatic	12/180 (7%)	6/87 (7%)	0/81 (0%)	6/12 (50%)
Overall	1261/2640 (48%)	448/1447 (31%)	620/937 (66%)	193/256 (75%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 46%, i.e. 1426 atoms were assigned a chemical shift out of a possible 3082. 0 out of 32 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	860/1223 (70%)	214/509 (42%)	438/484 (90%)	208/230 (90%)
Sidechain	554/1669 (33%)	277/1084 (26%)	274/532 (52%)	3/53 (6%)
Aromatic	12/190 (6%)	6/92 (7%)	0/86 (0%)	6/12 (50%)
Overall	1426/3082 (46%)	497/1685 (29%)	712/1102 (65%)	217/295 (74%)

7.1.4 Statistically unusual chemical shifts [i](#)

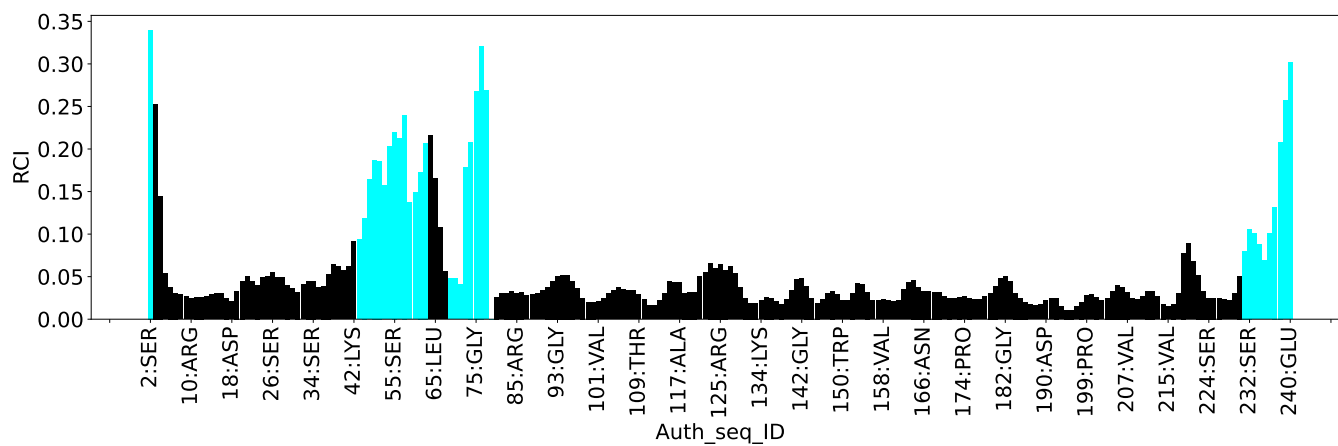
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	109	THR	HG1	6.64	0.08 – 2.19	26.1
1	A	229	THR	HG1	6.34	0.08 – 2.19	24.7
1	A	195	THR	HG1	6.32	0.08 – 2.19	24.6
1	A	172	THR	HG1	6.17	0.08 – 2.19	23.9
1	A	179	THR	HG1	6.11	0.08 – 2.19	23.6
1	A	217	THR	HG1	5.13	0.08 – 2.19	18.9
1	A	114	THR	HG1	4.89	0.08 – 2.19	17.8
1	A	120	MET	CG	12.01	25.46 – 38.60	-15.2
1	A	120	MET	CB	14.26	22.22 – 43.61	-8.7
1	A	196	SER	H	13.09	5.45 – 11.10	8.5
1	A	195	THR	H	12.20	5.19 – 11.27	6.5
1	A	145	LYS	H	11.39	5.24 – 11.12	5.5

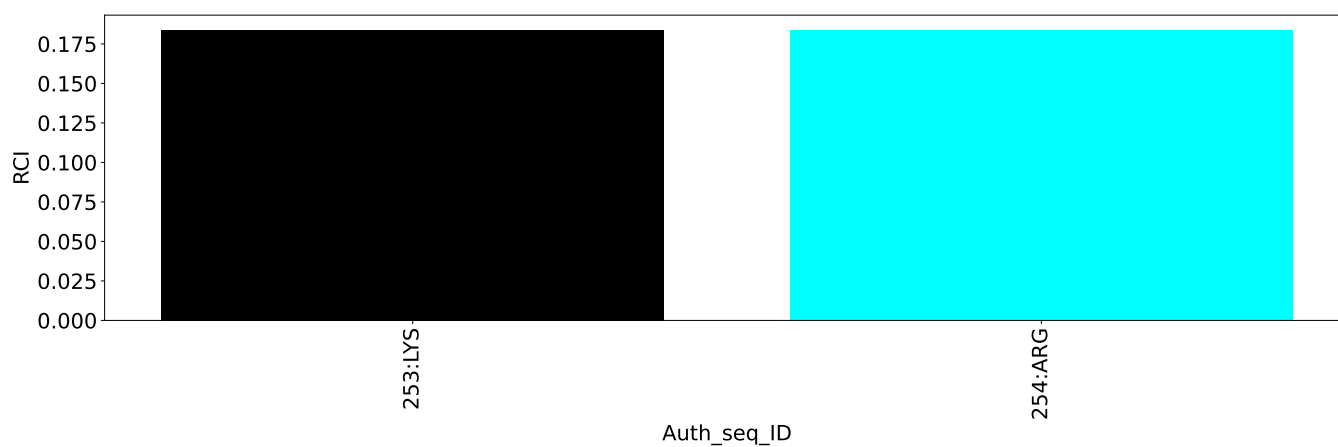
7.1.5 Random Coil Index (RCI) plots [i](#)

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

Random coil index (RCI) for chain A:



Random coil index (RCI) for chain B:



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	1705
Intra-residue ($ i-j =0$)	72
Sequential ($ i-j =1$)	285
Medium range ($ i-j >1$ and $ i-j <5$)	177
Long range ($ i-j \geq 5$)	821
Inter-chain	87
Hydrogen bond restraints	263
Disulfide bond restraints	0
Total dihedral-angle restraints	287
Number of unmapped restraints	1
Number of restraints per residue	8.1
Number of long range restraints per residue ¹	4.2

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)	51.4	0.2
0.2-0.5 (Medium)	29.7	0.5
>0.5 (Large)	4.7	2.62

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)	46.6	9.83
10.0-20.0 (Medium)	2.2	14.85
>20.0 (Large)	0.2	32.12

9 Distance violation analysis

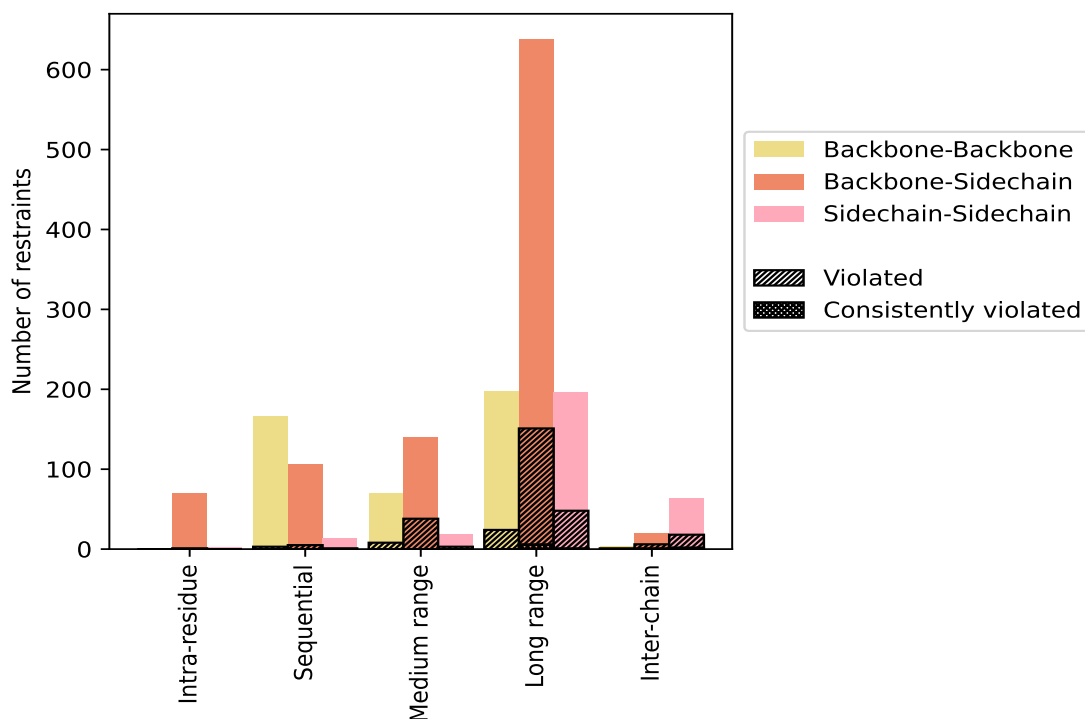
9.1 Summary of distance violations

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

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue ($i-j =0$)	72	4.2	1	1.4	0.1	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	70	4.1	1	1.4	0.1	0	0.0	0.0
Sidechain-Sidechain	2	0.1	0	0.0	0.0	0	0.0	0.0
Sequential ($i-j =1$)	285	16.7	9	3.2	0.5	0	0.0	0.0
Backbone-Backbone	166	9.7	3	1.8	0.2	0	0.0	0.0
Backbone-Sidechain	106	6.2	5	4.7	0.3	0	0.0	0.0
Sidechain-Sidechain	13	0.8	1	7.7	0.1	0	0.0	0.0
Medium range ($i-j >1$ & $i-j <5$)	177	10.4	38	21.5	2.2	0	0.0	0.0
Backbone-Backbone	70	4.1	8	11.4	0.5	0	0.0	0.0
Backbone-Sidechain	88	5.2	27	30.7	1.6	0	0.0	0.0
Sidechain-Sidechain	19	1.1	3	15.8	0.2	0	0.0	0.0
Long range ($i-j \geq 5$)	821	48.2	158	19.2	9.3	2	0.2	0.1
Backbone-Backbone	197	11.6	24	12.2	1.4	0	0.0	0.0
Backbone-Sidechain	430	25.2	88	20.5	5.2	1	0.2	0.1
Sidechain-Sidechain	194	11.4	46	23.7	2.7	1	0.5	0.1
Inter-chain	87	5.1	25	28.7	1.5	3	3.4	0.2
Backbone-Backbone	4	0.2	1	25.0	0.1	0	0.0	0.0
Backbone-Sidechain	20	1.2	6	30.0	0.4	1	5.0	0.1
Sidechain-Sidechain	63	3.7	18	28.6	1.1	2	3.2	0.1
Hydrogen bond	263	15.4	76	28.9	4.5	5	1.9	0.3
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	1705	100.0	307	18.0	18.0	10	0.6	0.6
Backbone-Backbone	437	25.6	36	8.2	2.1	0	0.0	0.0
Backbone-Sidechain	974	57.1	201	20.6	11.8	7	0.7	0.4
Sidechain-Sidechain	294	17.2	70	23.8	4.1	3	1.0	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 disulfid bonds are counted in their appropriate category on the x-axis

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

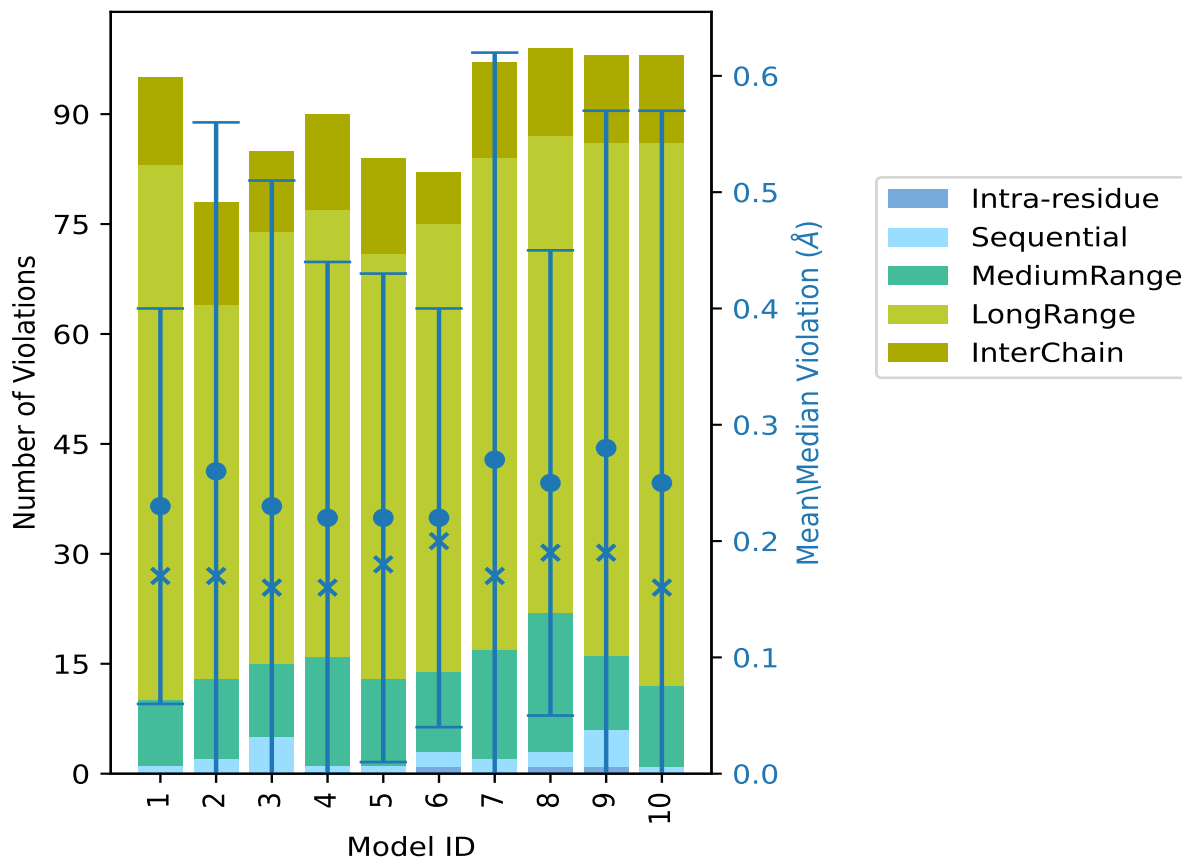
The following table provides the distance violation statistics for each model in the ensemble. Violations less than 0.1 Å are not included in the statistics.

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	0	1	9	73	12	95	0.23	1.07	0.17	0.17
2	0	2	11	51	14	78	0.26	2.35	0.3	0.17
3	0	5	10	59	11	85	0.23	2.3	0.28	0.16
4	0	1	15	61	13	90	0.22	1.69	0.22	0.16
5	0	1	12	58	13	84	0.22	1.79	0.21	0.18
6	1	2	11	61	7	82	0.22	1.47	0.18	0.2
7	0	2	15	67	13	97	0.27	2.53	0.35	0.17
8	1	2	19	65	12	99	0.25	1.72	0.2	0.19
9	1	5	10	70	12	98	0.28	1.85	0.29	0.19
10	0	1	11	74	12	98	0.25	2.62	0.32	0.16

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 [i](#)



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

9.3 Distance violation statistics for the ensemble [i](#)

Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 1211(IR:71, SQ:276, MR:139, LR:663, IC:62) 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	%
0	4	21	61	7	93	1	10.0
0	3	6	40	3	52	2	20.0
1	1	3	19	1	25	3	30.0
0	0	3	16	0	19	4	40.0

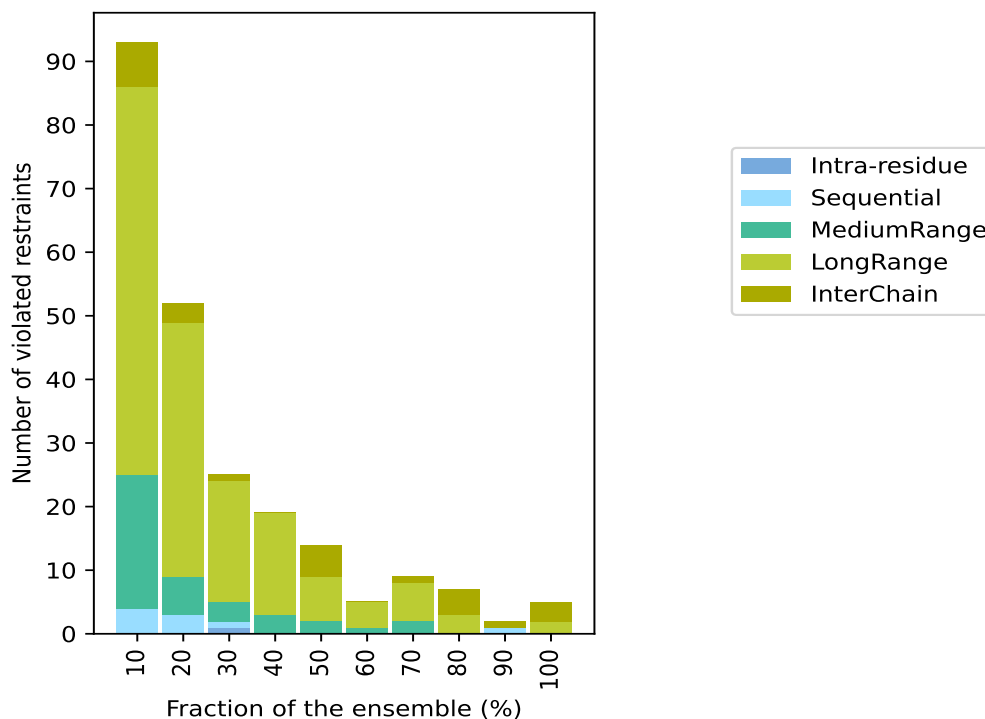
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Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
0	0	2	7	5	14	5	50.0
0	0	1	4	0	5	6	60.0
0	0	2	6	1	9	7	70.0
0	0	0	3	4	7	8	80.0
0	1	0	0	1	2	9	90.0
0	0	0	2	3	5	10	100.0

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

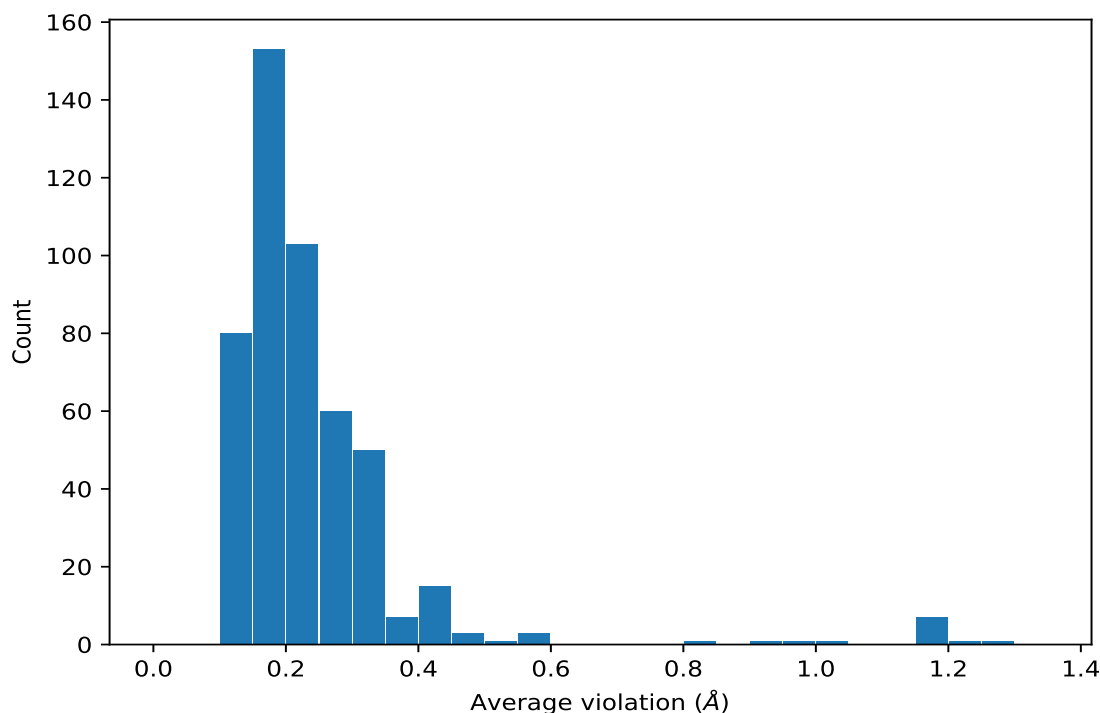
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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)
(2,1189)	1:64:A:VAL:HG11	2:251:B:BEZ:H6	10	1.2	0.92	0.83
(2,1189)	1:64:A:VAL:HG12	2:251:B:BEZ:H6	10	1.2	0.92	0.83
(2,1189)	1:64:A:VAL:HG13	2:251:B:BEZ:H6	10	1.2	0.92	0.83
(2,1189)	1:64:A:VAL:HG21	2:251:B:BEZ:H6	10	1.2	0.92	0.83
(2,1189)	1:64:A:VAL:HG22	2:251:B:BEZ:H6	10	1.2	0.92	0.83
(2,1189)	1:64:A:VAL:HG23	2:251:B:BEZ:H6	10	1.2	0.92	0.83
(2,1322)	1:6:A:LEU:HD21	1:88:A:GLN:H	10	0.43	0.34	0.32
(2,1322)	1:6:A:LEU:HD22	1:88:A:GLN:H	10	0.43	0.34	0.32
(2,1322)	1:6:A:LEU:HD23	1:88:A:GLN:H	10	0.43	0.34	0.32
(2,1197)	1:68:A:VAL:HG11	2:252:B:NLE:HB2	10	0.42	0.16	0.39
(2,1197)	1:68:A:VAL:HG11	2:252:B:NLE:HB3	10	0.42	0.16	0.39
(2,1197)	1:68:A:VAL:HG12	2:252:B:NLE:HB2	10	0.42	0.16	0.39
(2,1197)	1:68:A:VAL:HG12	2:252:B:NLE:HB3	10	0.42	0.16	0.39
(2,1197)	1:68:A:VAL:HG13	2:252:B:NLE:HB2	10	0.42	0.16	0.39
(2,1197)	1:68:A:VAL:HG13	2:252:B:NLE:HB3	10	0.42	0.16	0.39
(2,1197)	1:68:A:VAL:HG21	2:252:B:NLE:HB2	10	0.42	0.16	0.39

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,1197)	1:68:A:VAL:HG21	2:252:B:NLE:HB3	10	0.42	0.16	0.39
(2,1197)	1:68:A:VAL:HG22	2:252:B:NLE:HB2	10	0.42	0.16	0.39
(2,1197)	1:68:A:VAL:HG22	2:252:B:NLE:HB3	10	0.42	0.16	0.39
(2,1197)	1:68:A:VAL:HG23	2:252:B:NLE:HB2	10	0.42	0.16	0.39
(2,1197)	1:68:A:VAL:HG23	2:252:B:NLE:HB3	10	0.42	0.16	0.39
(2,1179)	1:118:A:VAL:HG11	2:251:B:BEZ:H4	10	0.33	0.17	0.25
(2,1179)	1:118:A:VAL:HG12	2:251:B:BEZ:H4	10	0.33	0.17	0.25
(2,1179)	1:118:A:VAL:HG13	2:251:B:BEZ:H4	10	0.33	0.17	0.25
(1,136)	1:8:A:LEU:H	1:120:A:MET:O	10	0.27	0.05	0.26
(2,690)	1:130:A:TRP:HE1	1:138:A:ILE:HD11	10	0.22	0.07	0.2
(2,690)	1:130:A:TRP:HE1	1:138:A:ILE:HD12	10	0.22	0.07	0.2
(2,690)	1:130:A:TRP:HE1	1:138:A:ILE:HD13	10	0.22	0.07	0.2
(1,137)	1:8:A:LEU:N	1:120:A:MET:O	10	0.19	0.05	0.18
(1,3)	1:8:A:LEU:H	1:120:A:MET:O	10	0.18	0.05	0.17
(1,218)	1:86:A:ILE:O	1:98:A:GLY:H	10	0.17	0.03	0.16
(1,240)	1:200:A:ILE:O	1:208:A:VAL:H	10	0.16	0.03	0.18
(2,1178)	1:91:A:ILE:HD11	2:251:B:BEZ:H6	9	0.56	0.7	0.31
(2,1178)	1:91:A:ILE:HD12	2:251:B:BEZ:H6	9	0.56	0.7	0.31
(2,1178)	1:91:A:ILE:HD13	2:251:B:BEZ:H6	9	0.56	0.7	0.31
(2,369)	1:66:A:TRP:HE1	1:67:A:ASP:H	9	0.31	0.11	0.29
(1,224)	1:88:A:GLN:H	1:95:A:SER:O	9	0.18	0.02	0.17
(1,142)	1:34:A:SER:O	1:38:A:SER:H	9	0.16	0.04	0.14
(1,262)	1:195:A:THR:O	1:198:A:SER:H	9	0.14	0.02	0.14
(1,222)	1:88:A:GLN:O	1:95:A:SER:H	9	0.14	0.02	0.13
(2,1154)	1:50:A:LEU:HD11	2:251:B:BEZ:H6	8	0.31	0.15	0.29
(2,1154)	1:50:A:LEU:HD12	2:251:B:BEZ:H6	8	0.31	0.15	0.29
(2,1154)	1:50:A:LEU:HD13	2:251:B:BEZ:H6	8	0.31	0.15	0.29
(2,1196)	1:65:A:LEU:HD11	2:255:B:M9P:HD	8	0.3	0.1	0.3
(2,1196)	1:65:A:LEU:HD11	2:255:B:M9P:HDA	8	0.3	0.1	0.3
(2,1196)	1:65:A:LEU:HD12	2:255:B:M9P:HD	8	0.3	0.1	0.3
(2,1196)	1:65:A:LEU:HD12	2:255:B:M9P:HDA	8	0.3	0.1	0.3
(2,1196)	1:65:A:LEU:HD13	2:255:B:M9P:HD	8	0.3	0.1	0.3
(2,1196)	1:65:A:LEU:HD13	2:255:B:M9P:HDA	8	0.3	0.1	0.3
(2,1196)	1:65:A:LEU:HD21	2:255:B:M9P:HD	8	0.3	0.1	0.3
(2,1196)	1:65:A:LEU:HD21	2:255:B:M9P:HDA	8	0.3	0.1	0.3
(2,1196)	1:65:A:LEU:HD22	2:255:B:M9P:HD	8	0.3	0.1	0.3
(2,1196)	1:65:A:LEU:HD22	2:255:B:M9P:HDA	8	0.3	0.1	0.3
(2,1196)	1:65:A:LEU:HD23	2:255:B:M9P:HD	8	0.3	0.1	0.3
(2,1196)	1:65:A:LEU:HD23	2:255:B:M9P:HDA	8	0.3	0.1	0.3
(2,1398)	1:65:A:LEU:CA	1:122:A:LYS:CD	8	0.3	0.07	0.3
(2,1343)	1:99:A:ALA:H	1:113:A:VAL:HG11	8	0.27	0.1	0.26
(2,1343)	1:99:A:ALA:H	1:113:A:VAL:HG12	8	0.27	0.1	0.26

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,1343)	1:99:A:ALA:H	1:113:A:VAL:HG13	8	0.27	0.1	0.26
(2,1151)	1:14:A:VAL:HG11	2:251:B:BEZ:H6	8	0.27	0.04	0.26
(2,1151)	1:14:A:VAL:HG12	2:251:B:BEZ:H6	8	0.27	0.04	0.26
(2,1151)	1:14:A:VAL:HG13	2:251:B:BEZ:H6	8	0.27	0.04	0.26
(2,572)	1:111:A:TRP:HE1	1:130:A:TRP:HE1	8	0.24	0.04	0.22
(1,132)	1:112:A:HIS:NE2	1:196:A:SER:OG	8	0.23	0.1	0.2
(2,480)	1:98:A:GLY:H	2:251:B:BEZ:H6	8	0.18	0.04	0.17
(1,219)	1:86:A:ILE:O	1:98:A:GLY:N	8	0.16	0.02	0.16
(1,192)	1:5:A:ASP:O	1:89:A:LYS:H	8	0.16	0.03	0.15
(1,200)	1:9:A:GLU:H	1:85:A:ARG:O	8	0.14	0.03	0.14
(2,1435)	1:127:A:GLU:C	1:140:A:TYR:CD2	7	1.21	0.6	1.53
(2,452)	1:91:A:ILE:HD11	1:95:A:SER:H	7	0.35	0.22	0.31
(2,452)	1:91:A:ILE:HD12	1:95:A:SER:H	7	0.35	0.22	0.31
(2,452)	1:91:A:ILE:HD13	1:95:A:SER:H	7	0.35	0.22	0.31
(2,1377)	1:9:A:GLU:CD	1:51:A:GLY:CA	7	0.24	0.08	0.25
(2,742)	1:144:A:TRP:HE1	1:147:A:GLU:H	7	0.21	0.06	0.22
(2,1332)	1:176:A:LEU:HD21	1:186:A:ALA:H	7	0.21	0.06	0.2
(2,1332)	1:176:A:LEU:HD22	1:186:A:ALA:H	7	0.21	0.06	0.2
(2,1332)	1:176:A:LEU:HD23	1:186:A:ALA:H	7	0.21	0.06	0.2
(2,1383)	1:32:A:THR:CG2	1:42:A:LYS:CB	7	0.19	0.05	0.2
(2,439)	1:89:A:LYS:H	1:120:A:MET:HE1	7	0.17	0.03	0.16
(2,439)	1:89:A:LYS:H	1:120:A:MET:HE2	7	0.17	0.03	0.16
(2,439)	1:89:A:LYS:H	1:120:A:MET:HE3	7	0.17	0.03	0.16
(2,1085)	1:214:A:GLY:H	1:224:A:SER:H	7	0.17	0.04	0.19
(2,1195)	1:65:A:LEU:HD11	2:253:B:LYS:HE2	7	0.17	0.03	0.15
(2,1195)	1:65:A:LEU:HD11	2:253:B:LYS:HE3	7	0.17	0.03	0.15
(2,1195)	1:65:A:LEU:HD12	2:253:B:LYS:HE2	7	0.17	0.03	0.15
(2,1195)	1:65:A:LEU:HD12	2:253:B:LYS:HE3	7	0.17	0.03	0.15
(2,1195)	1:65:A:LEU:HD13	2:253:B:LYS:HE2	7	0.17	0.03	0.15
(2,1195)	1:65:A:LEU:HD13	2:253:B:LYS:HE3	7	0.17	0.03	0.15
(2,1195)	1:65:A:LEU:HD21	2:253:B:LYS:HE2	7	0.17	0.03	0.15
(2,1195)	1:65:A:LEU:HD21	2:253:B:LYS:HE3	7	0.17	0.03	0.15
(2,1195)	1:65:A:LEU:HD22	2:253:B:LYS:HE2	7	0.17	0.03	0.15
(2,1195)	1:65:A:LEU:HD22	2:253:B:LYS:HE3	7	0.17	0.03	0.15
(2,1195)	1:65:A:LEU:HD23	2:253:B:LYS:HE2	7	0.17	0.03	0.15
(2,1195)	1:65:A:LEU:HD23	2:253:B:LYS:HE3	7	0.17	0.03	0.15
(1,216)	1:86:A:ILE:H	1:98:A:GLY:O	7	0.12	0.02	0.11
(2,1393)	1:64:A:VAL:CG2	1:122:A:LYS:CA	6	0.37	0.1	0.34
(2,351)	1:64:A:VAL:H	1:66:A:TRP:HE1	6	0.31	0.06	0.32
(2,1342)	1:88:A:GLN:H	1:97:A:ILE:HD11	6	0.25	0.06	0.24
(2,1342)	1:88:A:GLN:H	1:97:A:ILE:HD12	6	0.25	0.06	0.24
(2,1342)	1:88:A:GLN:H	1:97:A:ILE:HD13	6	0.25	0.06	0.24

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,1416)	1:67:A:ASP:CB	1:80:A:GLU:CA	6	0.2	0.07	0.18
(2,1266)	1:29:A:LEU:H	1:176:A:LEU:H	6	0.17	0.05	0.15
(1,186)	1:119:A:LEU:H	1:126:A:ILE:O	6	0.14	0.03	0.14
(1,168)	1:215:A:VAL:O	1:223:A:VAL:H	6	0.13	0.03	0.12
(1,254)	1:210:A:LEU:O	1:227:A:ALA:H	6	0.13	0.02	0.13
(2,1380)	1:10:A:ARG:CB	1:84:A:TYR:CE2	5	1.17	0.59	1.07
(2,1406)	1:66:A:TRP:CD1	1:121:A:HIS:CD2	5	0.5	0.08	0.47
(2,1191)	1:65:A:LEU:HD11	2:251:B:BEZ:H6	5	0.39	0.28	0.29
(2,1191)	1:65:A:LEU:HD12	2:251:B:BEZ:H6	5	0.39	0.28	0.29
(2,1191)	1:65:A:LEU:HD13	2:251:B:BEZ:H6	5	0.39	0.28	0.29
(2,1191)	1:65:A:LEU:HD21	2:251:B:BEZ:H6	5	0.39	0.28	0.29
(2,1191)	1:65:A:LEU:HD22	2:251:B:BEZ:H6	5	0.39	0.28	0.29
(2,1191)	1:65:A:LEU:HD23	2:251:B:BEZ:H6	5	0.39	0.28	0.29
(2,1345)	1:6:A:LEU:HD21	1:119:A:LEU:HD11	5	0.31	0.18	0.27
(2,1345)	1:6:A:LEU:HD21	1:119:A:LEU:HD12	5	0.31	0.18	0.27
(2,1345)	1:6:A:LEU:HD21	1:119:A:LEU:HD13	5	0.31	0.18	0.27
(2,1345)	1:6:A:LEU:HD22	1:119:A:LEU:HD11	5	0.31	0.18	0.27
(2,1345)	1:6:A:LEU:HD22	1:119:A:LEU:HD12	5	0.31	0.18	0.27
(2,1345)	1:6:A:LEU:HD22	1:119:A:LEU:HD13	5	0.31	0.18	0.27
(2,1345)	1:6:A:LEU:HD23	1:119:A:LEU:HD11	5	0.31	0.18	0.27
(2,1345)	1:6:A:LEU:HD23	1:119:A:LEU:HD12	5	0.31	0.18	0.27
(2,1345)	1:6:A:LEU:HD23	1:119:A:LEU:HD13	5	0.31	0.18	0.27
(2,1349)	1:31:A:ILE:HD11	1:184:A:ILE:HD11	5	0.28	0.11	0.21
(2,1349)	1:31:A:ILE:HD11	1:184:A:ILE:HD12	5	0.28	0.11	0.21
(2,1349)	1:31:A:ILE:HD11	1:184:A:ILE:HD13	5	0.28	0.11	0.21
(2,1349)	1:31:A:ILE:HD12	1:184:A:ILE:HD11	5	0.28	0.11	0.21
(2,1349)	1:31:A:ILE:HD12	1:184:A:ILE:HD12	5	0.28	0.11	0.21
(2,1349)	1:31:A:ILE:HD12	1:184:A:ILE:HD13	5	0.28	0.11	0.21
(2,1349)	1:31:A:ILE:HD13	1:184:A:ILE:HD11	5	0.28	0.11	0.21
(2,1349)	1:31:A:ILE:HD13	1:184:A:ILE:HD12	5	0.28	0.11	0.21
(2,1349)	1:31:A:ILE:HD13	1:184:A:ILE:HD13	5	0.28	0.11	0.21
(2,619)	1:118:A:VAL:H	1:120:A:MET:HE1	5	0.23	0.08	0.22
(2,619)	1:118:A:VAL:H	1:120:A:MET:HE2	5	0.23	0.08	0.22
(2,619)	1:118:A:VAL:H	1:120:A:MET:HE3	5	0.23	0.08	0.22
(2,146)	1:16:A:TRP:HE1	1:170:A:VAL:HG11	5	0.22	0.06	0.22
(2,146)	1:16:A:TRP:HE1	1:170:A:VAL:HG12	5	0.22	0.06	0.22
(2,146)	1:16:A:TRP:HE1	1:170:A:VAL:HG13	5	0.22	0.06	0.22
(2,146)	1:16:A:TRP:HE1	1:170:A:VAL:HG21	5	0.22	0.06	0.22
(2,146)	1:16:A:TRP:HE1	1:170:A:VAL:HG22	5	0.22	0.06	0.22
(2,146)	1:16:A:TRP:HE1	1:170:A:VAL:HG23	5	0.22	0.06	0.22
(2,420)	1:86:A:ILE:HD11	1:198:A:SER:H	5	0.21	0.03	0.2
(2,420)	1:86:A:ILE:HD12	1:198:A:SER:H	5	0.21	0.03	0.2

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,420)	1:86:A:ILE:HD13	1:198:A:SER:H	5	0.21	0.03	0.2
(2,1180)	1:118:A:VAL:HG21	2:251:B:BEZ:H4	5	0.2	0.04	0.2
(2,1180)	1:118:A:VAL:HG22	2:251:B:BEZ:H4	5	0.2	0.04	0.2
(2,1180)	1:118:A:VAL:HG23	2:251:B:BEZ:H4	5	0.2	0.04	0.2
(2,689)	1:130:A:TRP:HE1	1:133:A:VAL:HG11	5	0.19	0.06	0.19
(2,689)	1:130:A:TRP:HE1	1:133:A:VAL:HG12	5	0.19	0.06	0.19
(2,689)	1:130:A:TRP:HE1	1:133:A:VAL:HG13	5	0.19	0.06	0.19
(2,689)	1:130:A:TRP:HE1	1:133:A:VAL:HG21	5	0.19	0.06	0.19
(2,689)	1:130:A:TRP:HE1	1:133:A:VAL:HG22	5	0.19	0.06	0.19
(2,689)	1:130:A:TRP:HE1	1:133:A:VAL:HG23	5	0.19	0.06	0.19
(2,1205)	1:101:A:VAL:HG11	2:251:B:BEZ:H6	5	0.16	0.05	0.15
(2,1205)	1:101:A:VAL:HG12	2:251:B:BEZ:H6	5	0.16	0.05	0.15
(2,1205)	1:101:A:VAL:HG13	2:251:B:BEZ:H6	5	0.16	0.05	0.15
(2,1205)	1:101:A:VAL:HG21	2:251:B:BEZ:H6	5	0.16	0.05	0.15
(2,1205)	1:101:A:VAL:HG22	2:251:B:BEZ:H6	5	0.16	0.05	0.15
(2,1205)	1:101:A:VAL:HG23	2:251:B:BEZ:H6	5	0.16	0.05	0.15
(2,1174)	1:50:A:LEU:HD21	2:251:B:BEZ:H5	5	0.14	0.04	0.12
(2,1174)	1:50:A:LEU:HD22	2:251:B:BEZ:H5	5	0.14	0.04	0.12
(2,1174)	1:50:A:LEU:HD23	2:251:B:BEZ:H5	5	0.14	0.04	0.12
(2,421)	1:86:A:ILE:HD11	2:251:B:BEZ:H6	5	0.13	0.02	0.13
(2,421)	1:86:A:ILE:HD12	2:251:B:BEZ:H6	5	0.13	0.02	0.13
(2,421)	1:86:A:ILE:HD13	2:251:B:BEZ:H6	5	0.13	0.02	0.13
(2,1316)	1:30:A:SER:H	1:178:A:LYS:H	5	0.13	0.01	0.13
(1,236)	1:200:A:ILE:O	1:209:A:GLY:H	5	0.13	0.03	0.12
(1,172)	1:217:A:THR:O	1:221:A:ALA:H	5	0.12	0.03	0.11
(1,194)	1:7:A:GLU:O	1:87:A:LYS:H	5	0.12	0.01	0.12
(1,208)	1:82:A:GLY:H	1:102:A:TYR:O	5	0.12	0.01	0.12
(1,210)	1:82:A:GLY:O	1:102:A:TYR:H	5	0.12	0.02	0.11
(2,1430)	1:89:A:LYS:CB	1:94:A:TYR:CE1	4	1.02	0.42	1.12
(2,1378)	1:9:A:GLU:C	1:84:A:TYR:CD2	4	0.91	0.21	0.95
(2,1379)	1:10:A:ARG:CA	1:84:A:TYR:CD2	4	0.83	0.16	0.84
(2,787)	1:150:A:TRP:H	1:208:A:VAL:HG11	4	0.34	0.13	0.34
(2,787)	1:150:A:TRP:H	1:208:A:VAL:HG12	4	0.34	0.13	0.34
(2,787)	1:150:A:TRP:H	1:208:A:VAL:HG13	4	0.34	0.13	0.34
(2,787)	1:150:A:TRP:H	1:208:A:VAL:HG21	4	0.34	0.13	0.34
(2,787)	1:150:A:TRP:H	1:208:A:VAL:HG22	4	0.34	0.13	0.34
(2,787)	1:150:A:TRP:H	1:208:A:VAL:HG23	4	0.34	0.13	0.34
(2,1422)	1:67:A:ASP:CG	1:80:A:GLU:C	4	0.29	0.11	0.28
(2,1280)	1:189:A:LEU:H	1:224:A:SER:H	4	0.28	0.1	0.23
(2,464)	1:95:A:SER:H	1:97:A:ILE:HD11	4	0.27	0.13	0.26
(2,464)	1:95:A:SER:H	1:97:A:ILE:HD12	4	0.27	0.13	0.26
(2,464)	1:95:A:SER:H	1:97:A:ILE:HD13	4	0.27	0.13	0.26

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,350)	1:64:A:VAL:H	1:66:A:TRP:H	4	0.26	0.12	0.22
(2,1113)	1:217:A:THR:HG1	1:220:A:GLY:H	4	0.23	0.07	0.22
(2,1294)	1:7:A:GLU:H	1:120:A:MET:HE1	4	0.21	0.06	0.22
(2,1294)	1:7:A:GLU:H	1:120:A:MET:HE2	4	0.21	0.06	0.22
(2,1294)	1:7:A:GLU:H	1:120:A:MET:HE3	4	0.21	0.06	0.22
(2,1432)	1:108:A:HIS:CD2	1:144:A:TRP:CE3	4	0.2	0.1	0.16
(2,1397)	1:64:A:VAL:C	1:122:A:LYS:CE	4	0.2	0.08	0.2
(2,1181)	1:109:A:THR:HG1	1:137:A:LEU:HD11	4	0.2	0.05	0.18
(2,1181)	1:109:A:THR:HG1	1:137:A:LEU:HD12	4	0.2	0.05	0.18
(2,1181)	1:109:A:THR:HG1	1:137:A:LEU:HD13	4	0.2	0.05	0.18
(2,1230)	1:109:A:THR:HG1	1:137:A:LEU:HD11	4	0.2	0.05	0.18
(2,1230)	1:109:A:THR:HG1	1:137:A:LEU:HD12	4	0.2	0.05	0.18
(2,1230)	1:109:A:THR:HG1	1:137:A:LEU:HD13	4	0.2	0.05	0.18
(2,1348)	1:29:A:LEU:HD21	1:41:A:ILE:HD11	4	0.18	0.06	0.17
(2,1348)	1:29:A:LEU:HD21	1:41:A:ILE:HD12	4	0.18	0.06	0.17
(2,1348)	1:29:A:LEU:HD21	1:41:A:ILE:HD13	4	0.18	0.06	0.17
(2,1348)	1:29:A:LEU:HD22	1:41:A:ILE:HD11	4	0.18	0.06	0.17
(2,1348)	1:29:A:LEU:HD22	1:41:A:ILE:HD12	4	0.18	0.06	0.17
(2,1348)	1:29:A:LEU:HD22	1:41:A:ILE:HD13	4	0.18	0.06	0.17
(2,1348)	1:29:A:LEU:HD23	1:41:A:ILE:HD11	4	0.18	0.06	0.17
(2,1348)	1:29:A:LEU:HD23	1:41:A:ILE:HD12	4	0.18	0.06	0.17
(2,1348)	1:29:A:LEU:HD23	1:41:A:ILE:HD13	4	0.18	0.06	0.17
(2,312)	1:41:A:ILE:H	1:215:A:VAL:HG11	4	0.18	0.05	0.18
(2,312)	1:41:A:ILE:H	1:215:A:VAL:HG12	4	0.18	0.05	0.18
(2,312)	1:41:A:ILE:H	1:215:A:VAL:HG13	4	0.18	0.05	0.18
(2,312)	1:41:A:ILE:H	1:215:A:VAL:HG21	4	0.18	0.05	0.18
(2,312)	1:41:A:ILE:H	1:215:A:VAL:HG22	4	0.18	0.05	0.18
(2,312)	1:41:A:ILE:H	1:215:A:VAL:HG23	4	0.18	0.05	0.18
(2,555)	1:110:A:MET:HE1	1:198:A:SER:H	4	0.17	0.03	0.16
(2,555)	1:110:A:MET:HE2	1:198:A:SER:H	4	0.17	0.03	0.16
(2,555)	1:110:A:MET:HE3	1:198:A:SER:H	4	0.17	0.03	0.16
(2,10)	1:4:A:ALA:H	1:120:A:MET:HG2	4	0.16	0.02	0.16
(2,10)	1:4:A:ALA:H	1:120:A:MET:HG3	4	0.16	0.02	0.16
(2,777)	1:149:A:GLU:H	1:207:A:VAL:H	4	0.16	0.06	0.13
(1,140)	1:32:A:THR:H	1:40:A:SER:O	4	0.14	0.02	0.13
(1,160)	1:177:A:PHE:O	1:184:A:ILE:H	4	0.12	0.02	0.12
(1,176)	1:132:A:ASP:O	1:137:A:LEU:H	4	0.12	0.02	0.12
(1,193)	1:5:A:ASP:O	1:89:A:LYS:N	4	0.12	0.01	0.12
(1,232)	1:157:A:GLN:H	1:201:A:ILE:O	4	0.12	0.02	0.12
(1,260)	1:99:A:ALA:H	1:196:A:SER:O	4	0.12	0.02	0.12
(1,91)	1:88:A:GLN:H	1:95:A:SER:O	4	0.12	0.0	0.12
(2,1429)	1:79:A:LEU:C	1:102:A:TYR:CD2	3	0.96	0.5	1.23

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,1312)	1:21:A:GLU:H	1:170:A:VAL:HG11	3	0.47	0.31	0.35
(2,1312)	1:21:A:GLU:H	1:170:A:VAL:HG12	3	0.47	0.31	0.35
(2,1312)	1:21:A:GLU:H	1:170:A:VAL:HG13	3	0.47	0.31	0.35
(1,166)	1:175:A:GLY:O	1:186:A:ALA:H	3	0.29	0.13	0.36
(2,366)	1:66:A:TRP:H	1:66:A:TRP:HE1	3	0.28	0.13	0.29
(2,1249)	1:5:A:ASP:H	1:119:A:LEU:HD21	3	0.25	0.05	0.26
(2,1249)	1:5:A:ASP:H	1:119:A:LEU:HD22	3	0.25	0.05	0.26
(2,1249)	1:5:A:ASP:H	1:119:A:LEU:HD23	3	0.25	0.05	0.26
(2,1176)	1:97:A:ILE:HD11	1:109:A:THR:HG1	3	0.24	0.09	0.23
(2,1176)	1:97:A:ILE:HD12	1:109:A:THR:HG1	3	0.24	0.09	0.23
(2,1176)	1:97:A:ILE:HD13	1:109:A:THR:HG1	3	0.24	0.09	0.23
(2,1229)	1:97:A:ILE:HD11	1:109:A:THR:HG1	3	0.24	0.09	0.23
(2,1229)	1:97:A:ILE:HD12	1:109:A:THR:HG1	3	0.24	0.09	0.23
(2,1229)	1:97:A:ILE:HD13	1:109:A:THR:HG1	3	0.24	0.09	0.23
(2,1251)	1:6:A:LEU:H	1:119:A:LEU:HD11	3	0.23	0.07	0.18
(2,1251)	1:6:A:LEU:H	1:119:A:LEU:HD12	3	0.23	0.07	0.18
(2,1251)	1:6:A:LEU:H	1:119:A:LEU:HD13	3	0.23	0.07	0.18
(2,1438)	1:159:A:LEU:CD1	1:201:A:ILE:CD1	3	0.22	0.04	0.23
(2,326)	1:48:A:GLN:H	2:253:B:LYS:HD2	3	0.22	0.08	0.19
(2,326)	1:48:A:GLN:H	2:253:B:LYS:HD3	3	0.22	0.08	0.19
(2,331)	1:50:A:LEU:H	1:51:A:GLY:H	3	0.21	0.07	0.24
(2,1291)	1:4:A:ALA:H	1:118:A:VAL:HG21	3	0.2	0.05	0.19
(2,1291)	1:4:A:ALA:H	1:118:A:VAL:HG22	3	0.2	0.05	0.19
(2,1291)	1:4:A:ALA:H	1:118:A:VAL:HG23	3	0.2	0.05	0.19
(2,1314)	1:24:A:GLY:H	1:189:A:LEU:HD21	3	0.2	0.06	0.24
(2,1314)	1:24:A:GLY:H	1:189:A:LEU:HD22	3	0.2	0.06	0.24
(2,1314)	1:24:A:GLY:H	1:189:A:LEU:HD23	3	0.2	0.06	0.24
(2,786)	1:150:A:TRP:H	1:207:A:VAL:HG11	3	0.2	0.04	0.21
(2,786)	1:150:A:TRP:H	1:207:A:VAL:HG12	3	0.2	0.04	0.21
(2,786)	1:150:A:TRP:H	1:207:A:VAL:HG13	3	0.2	0.04	0.21
(2,786)	1:150:A:TRP:H	1:207:A:VAL:HG21	3	0.2	0.04	0.21
(2,786)	1:150:A:TRP:H	1:207:A:VAL:HG22	3	0.2	0.04	0.21
(2,786)	1:150:A:TRP:H	1:207:A:VAL:HG23	3	0.2	0.04	0.21
(2,339)	1:51:A:GLY:H	1:161:A:LEU:HD11	3	0.19	0.05	0.18
(2,339)	1:51:A:GLY:H	1:161:A:LEU:HD12	3	0.19	0.05	0.18
(2,339)	1:51:A:GLY:H	1:161:A:LEU:HD13	3	0.19	0.05	0.18
(2,339)	1:51:A:GLY:H	1:161:A:LEU:HD21	3	0.19	0.05	0.18
(2,339)	1:51:A:GLY:H	1:161:A:LEU:HD22	3	0.19	0.05	0.18
(2,339)	1:51:A:GLY:H	1:161:A:LEU:HD23	3	0.19	0.05	0.18
(2,1125)	1:224:A:SER:H	1:226:A:ILE:H	3	0.18	0.06	0.15
(2,1370)	1:31:A:ILE:HD11	1:215:A:VAL:HG21	3	0.18	0.09	0.13
(2,1370)	1:31:A:ILE:HD11	1:215:A:VAL:HG22	3	0.18	0.09	0.13

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,1370)	1:31:A:ILE:HD11	1:215:A:VAL:HG23	3	0.18	0.09	0.13
(2,1370)	1:31:A:ILE:HD12	1:215:A:VAL:HG21	3	0.18	0.09	0.13
(2,1370)	1:31:A:ILE:HD12	1:215:A:VAL:HG22	3	0.18	0.09	0.13
(2,1370)	1:31:A:ILE:HD12	1:215:A:VAL:HG23	3	0.18	0.09	0.13
(2,1370)	1:31:A:ILE:HD13	1:215:A:VAL:HG21	3	0.18	0.09	0.13
(2,1370)	1:31:A:ILE:HD13	1:215:A:VAL:HG22	3	0.18	0.09	0.13
(2,1370)	1:31:A:ILE:HD13	1:215:A:VAL:HG23	3	0.18	0.09	0.13
(2,661)	1:120:A:MET:HE1	1:122:A:LYS:H	3	0.17	0.05	0.18
(2,661)	1:120:A:MET:HE2	1:122:A:LYS:H	3	0.17	0.05	0.18
(2,661)	1:120:A:MET:HE3	1:122:A:LYS:H	3	0.17	0.05	0.18
(2,1242)	1:4:A:ALA:H	1:89:A:LYS:H	3	0.17	0.04	0.19
(2,1404)	1:66:A:TRP:CG	1:122:A:LYS:CD	3	0.16	0.03	0.16
(2,1140)	1:233:A:ILE:HD11	1:235:A:ASP:H	3	0.16	0.05	0.15
(2,1140)	1:233:A:ILE:HD12	1:235:A:ASP:H	3	0.16	0.05	0.15
(2,1140)	1:233:A:ILE:HD13	1:235:A:ASP:H	3	0.16	0.05	0.15
(2,501)	1:101:A:VAL:HG11	1:110:A:MET:H	3	0.16	0.03	0.17
(2,501)	1:101:A:VAL:HG12	1:110:A:MET:H	3	0.16	0.03	0.17
(2,501)	1:101:A:VAL:HG13	1:110:A:MET:H	3	0.16	0.03	0.17
(2,501)	1:101:A:VAL:HG21	1:110:A:MET:H	3	0.16	0.03	0.17
(2,501)	1:101:A:VAL:HG22	1:110:A:MET:H	3	0.16	0.03	0.17
(2,501)	1:101:A:VAL:HG23	1:110:A:MET:H	3	0.16	0.03	0.17
(2,321)	1:41:A:ILE:HD11	1:221:A:ALA:H	3	0.16	0.04	0.13
(2,321)	1:41:A:ILE:HD12	1:221:A:ALA:H	3	0.16	0.04	0.13
(2,321)	1:41:A:ILE:HD13	1:221:A:ALA:H	3	0.16	0.04	0.13
(2,302)	1:39:A:MET:HE1	1:217:A:THR:HG1	3	0.15	0.04	0.13
(2,302)	1:39:A:MET:HE2	1:217:A:THR:HG1	3	0.15	0.04	0.13
(2,302)	1:39:A:MET:HE3	1:217:A:THR:HG1	3	0.15	0.04	0.13
(2,1256)	1:7:A:GLU:H	1:119:A:LEU:HD11	3	0.15	0.04	0.12
(2,1256)	1:7:A:GLU:H	1:119:A:LEU:HD12	3	0.15	0.04	0.12
(2,1256)	1:7:A:GLU:H	1:119:A:LEU:HD13	3	0.15	0.04	0.12
(2,1275)	1:111:A:TRP:HE1	1:133:A:VAL:HG11	3	0.12	0.03	0.11
(2,1275)	1:111:A:TRP:HE1	1:133:A:VAL:HG12	3	0.12	0.03	0.11
(2,1275)	1:111:A:TRP:HE1	1:133:A:VAL:HG13	3	0.12	0.03	0.11
(1,196)	1:7:A:GLU:H	1:87:A:LYS:O	3	0.12	0.02	0.12
(1,190)	1:121:A:HIS:H	1:124:A:LYS:O	3	0.12	0.0	0.12
(1,238)	1:200:A:ILE:H	1:209:A:GLY:O	3	0.11	0.01	0.12
(1,242)	1:103:A:LYS:O	1:106:A:THR:H	3	0.11	0.01	0.11
(2,1428)	1:79:A:LEU:C	1:102:A:TYR:CE2	2	1.26	0.02	1.26
(2,370)	1:66:A:TRP:HE1	1:68:A:VAL:HG11	2	0.35	0.09	0.35
(2,370)	1:66:A:TRP:HE1	1:68:A:VAL:HG12	2	0.35	0.09	0.35
(2,370)	1:66:A:TRP:HE1	1:68:A:VAL:HG13	2	0.35	0.09	0.35
(2,370)	1:66:A:TRP:HE1	1:68:A:VAL:HG21	2	0.35	0.09	0.35

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,370)	1:66:A:TRP:HE1	1:68:A:VAL:HG22	2	0.35	0.09	0.35
(2,370)	1:66:A:TRP:HE1	1:68:A:VAL:HG23	2	0.35	0.09	0.35
(1,164)	1:175:A:GLY:H	1:186:A:ALA:O	2	0.34	0.0	0.34
(2,810)	1:156:A:VAL:H	1:226:A:ILE:HD11	2	0.34	0.1	0.34
(2,810)	1:156:A:VAL:H	1:226:A:ILE:HD12	2	0.34	0.1	0.34
(2,810)	1:156:A:VAL:H	1:226:A:ILE:HD13	2	0.34	0.1	0.34
(2,1190)	1:64:A:VAL:HG11	2:252:B:NLE:HB2	2	0.34	0.04	0.34
(2,1190)	1:64:A:VAL:HG11	2:252:B:NLE:HB3	2	0.34	0.04	0.34
(2,1190)	1:64:A:VAL:HG12	2:252:B:NLE:HB2	2	0.34	0.04	0.34
(2,1190)	1:64:A:VAL:HG12	2:252:B:NLE:HB3	2	0.34	0.04	0.34
(2,1190)	1:64:A:VAL:HG13	2:252:B:NLE:HB2	2	0.34	0.04	0.34
(2,1190)	1:64:A:VAL:HG13	2:252:B:NLE:HB3	2	0.34	0.04	0.34
(2,1190)	1:64:A:VAL:HG21	2:252:B:NLE:HB2	2	0.34	0.04	0.34
(2,1190)	1:64:A:VAL:HG21	2:252:B:NLE:HB3	2	0.34	0.04	0.34
(2,1190)	1:64:A:VAL:HG22	2:252:B:NLE:HB2	2	0.34	0.04	0.34
(2,1190)	1:64:A:VAL:HG22	2:252:B:NLE:HB3	2	0.34	0.04	0.34
(2,1190)	1:64:A:VAL:HG23	2:252:B:NLE:HB2	2	0.34	0.04	0.34
(2,1190)	1:64:A:VAL:HG23	2:252:B:NLE:HB3	2	0.34	0.04	0.34
(2,1401)	1:65:A:LEU:C	1:122:A:LYS:CE	2	0.34	0.1	0.34
(2,1423)	1:67:A:ASP:C	1:78:A:GLU:CD	2	0.31	0.16	0.31
(1,33)	1:175:A:GLY:O	1:186:A:ALA:H	2	0.29	0.02	0.29
(2,766)	1:147:A:GLU:H	1:207:A:VAL:HG11	2	0.29	0.1	0.29
(2,766)	1:147:A:GLU:H	1:207:A:VAL:HG12	2	0.29	0.1	0.29
(2,766)	1:147:A:GLU:H	1:207:A:VAL:HG13	2	0.29	0.1	0.29
(2,766)	1:147:A:GLU:H	1:207:A:VAL:HG21	2	0.29	0.1	0.29
(2,766)	1:147:A:GLU:H	1:207:A:VAL:HG22	2	0.29	0.1	0.29
(2,766)	1:147:A:GLU:H	1:207:A:VAL:HG23	2	0.29	0.1	0.29
(2,1255)	1:7:A:GLU:H	1:119:A:LEU:HD21	2	0.29	0.03	0.29
(2,1255)	1:7:A:GLU:H	1:119:A:LEU:HD22	2	0.29	0.03	0.29
(2,1255)	1:7:A:GLU:H	1:119:A:LEU:HD23	2	0.29	0.03	0.29
(2,781)	1:149:A:GLU:H	1:209:A:GLY:H	2	0.26	0.14	0.26
(2,1411)	1:66:A:TRP:CD2	1:122:A:LYS:CE	2	0.26	0.11	0.26
(1,31)	1:175:A:GLY:H	1:186:A:ALA:O	2	0.26	0.01	0.26
(2,1152)	1:14:A:VAL:HG21	2:251:B:BEZ:H6	2	0.26	0.03	0.26
(2,1152)	1:14:A:VAL:HG22	2:251:B:BEZ:H6	2	0.26	0.03	0.26
(2,1152)	1:14:A:VAL:HG23	2:251:B:BEZ:H6	2	0.26	0.03	0.26
(2,1286)	1:212:A:GLY:H	1:225:A:ALA:H	2	0.26	0.01	0.26
(1,165)	1:175:A:GLY:N	1:186:A:ALA:O	2	0.24	0.01	0.24
(2,1396)	1:64:A:VAL:C	1:122:A:LYS:CD	2	0.24	0.15	0.24
(2,864)	1:159:A:LEU:HD11	1:162:A:GLU:H	2	0.24	0.06	0.24
(2,864)	1:159:A:LEU:HD12	1:162:A:GLU:H	2	0.24	0.06	0.24
(2,864)	1:159:A:LEU:HD13	1:162:A:GLU:H	2	0.24	0.06	0.24

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,864)	1:159:A:LEU:HD21	1:162:A:GLU:H	2	0.24	0.06	0.24
(2,864)	1:159:A:LEU:HD22	1:162:A:GLU:H	2	0.24	0.06	0.24
(2,864)	1:159:A:LEU:HD23	1:162:A:GLU:H	2	0.24	0.06	0.24
(2,1425)	1:67:A:ASP:C	1:80:A:GLU:CD	2	0.24	0.02	0.24
(2,319)	1:41:A:ILE:HD11	1:219:A:SER:H	2	0.23	0.09	0.23
(2,319)	1:41:A:ILE:HD12	1:219:A:SER:H	2	0.23	0.09	0.23
(2,319)	1:41:A:ILE:HD13	1:219:A:SER:H	2	0.23	0.09	0.23
(2,456)	1:91:A:ILE:HD11	2:254:B:ARG:HA	2	0.23	0.06	0.23
(2,456)	1:91:A:ILE:HD12	2:254:B:ARG:HA	2	0.23	0.06	0.23
(2,456)	1:91:A:ILE:HD13	2:254:B:ARG:HA	2	0.23	0.06	0.23
(2,1408)	1:66:A:TRP:CD1	1:122:A:LYS:CG	2	0.22	0.03	0.22
(2,4)	1:3:A:ALA:H	1:114:A:THR:HG1	2	0.2	0.07	0.2
(2,81)	1:8:A:LEU:HD11	1:100:A:GLY:H	2	0.2	0.0	0.2
(2,81)	1:8:A:LEU:HD12	1:100:A:GLY:H	2	0.2	0.0	0.2
(2,81)	1:8:A:LEU:HD13	1:100:A:GLY:H	2	0.2	0.0	0.2
(2,81)	1:8:A:LEU:HD21	1:100:A:GLY:H	2	0.2	0.0	0.2
(2,81)	1:8:A:LEU:HD22	1:100:A:GLY:H	2	0.2	0.0	0.2
(2,81)	1:8:A:LEU:HD23	1:100:A:GLY:H	2	0.2	0.0	0.2
(2,930)	1:178:A:LYS:H	1:184:A:ILE:HD11	2	0.2	0.02	0.2
(2,930)	1:178:A:LYS:H	1:184:A:ILE:HD12	2	0.2	0.02	0.2
(2,930)	1:178:A:LYS:H	1:184:A:ILE:HD13	2	0.2	0.02	0.2
(2,666)	1:120:A:MET:HE1	1:126:A:ILE:HD11	2	0.2	0.04	0.2
(2,666)	1:120:A:MET:HE1	1:126:A:ILE:HD12	2	0.2	0.04	0.2
(2,666)	1:120:A:MET:HE1	1:126:A:ILE:HD13	2	0.2	0.04	0.2
(2,666)	1:120:A:MET:HE2	1:126:A:ILE:HD11	2	0.2	0.04	0.2
(2,666)	1:120:A:MET:HE2	1:126:A:ILE:HD12	2	0.2	0.04	0.2
(2,666)	1:120:A:MET:HE2	1:126:A:ILE:HD13	2	0.2	0.04	0.2
(2,666)	1:120:A:MET:HE3	1:126:A:ILE:HD11	2	0.2	0.04	0.2
(2,666)	1:120:A:MET:HE3	1:126:A:ILE:HD12	2	0.2	0.04	0.2
(2,666)	1:120:A:MET:HE3	1:126:A:ILE:HD13	2	0.2	0.04	0.2
(2,886)	1:165:A:LYS:H	1:166:A:ASN:HD21	2	0.2	0.04	0.2
(2,886)	1:165:A:LYS:H	1:166:A:ASN:HD22	2	0.2	0.04	0.2
(2,1305)	1:13:A:ASP:H	1:161:A:LEU:HD21	2	0.2	0.02	0.2
(2,1305)	1:13:A:ASP:H	1:161:A:LEU:HD22	2	0.2	0.02	0.2
(2,1305)	1:13:A:ASP:H	1:161:A:LEU:HD23	2	0.2	0.02	0.2
(2,601)	1:114:A:THR:HG1	1:119:A:LEU:HD11	2	0.18	0.04	0.18
(2,601)	1:114:A:THR:HG1	1:119:A:LEU:HD12	2	0.18	0.04	0.18
(2,601)	1:114:A:THR:HG1	1:119:A:LEU:HD13	2	0.18	0.04	0.18
(2,601)	1:114:A:THR:HG1	1:119:A:LEU:HD21	2	0.18	0.04	0.18
(2,601)	1:114:A:THR:HG1	1:119:A:LEU:HD22	2	0.18	0.04	0.18
(2,601)	1:114:A:THR:HG1	1:119:A:LEU:HD23	2	0.18	0.04	0.18
(2,764)	1:146:A:LEU:HD11	1:231:A:LYS:H	2	0.18	0.06	0.18

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,764)	1:146:A:LEU:HD12	1:231:A:LYS:H	2	0.18	0.06	0.18
(2,764)	1:146:A:LEU:HD13	1:231:A:LYS:H	2	0.18	0.06	0.18
(2,764)	1:146:A:LEU:HD21	1:231:A:LYS:H	2	0.18	0.06	0.18
(2,764)	1:146:A:LEU:HD22	1:231:A:LYS:H	2	0.18	0.06	0.18
(2,764)	1:146:A:LEU:HD23	1:231:A:LYS:H	2	0.18	0.06	0.18
(2,796)	1:150:A:TRP:HE1	1:200:A:ILE:HD11	2	0.18	0.05	0.18
(2,796)	1:150:A:TRP:HE1	1:200:A:ILE:HD12	2	0.18	0.05	0.18
(2,796)	1:150:A:TRP:HE1	1:200:A:ILE:HD13	2	0.18	0.05	0.18
(2,329)	1:49:A:THR:H	1:51:A:GLY:H	2	0.18	0.06	0.18
(2,471)	1:97:A:ILE:HD11	1:114:A:THR:HG1	2	0.18	0.05	0.18
(2,471)	1:97:A:ILE:HD12	1:114:A:THR:HG1	2	0.18	0.05	0.18
(2,471)	1:97:A:ILE:HD13	1:114:A:THR:HG1	2	0.18	0.05	0.18
(2,1027)	1:200:A:ILE:HD11	1:228:A:GLN:H	2	0.18	0.03	0.18
(2,1027)	1:200:A:ILE:HD12	1:228:A:GLN:H	2	0.18	0.03	0.18
(2,1027)	1:200:A:ILE:HD13	1:228:A:GLN:H	2	0.18	0.03	0.18
(2,1391)	1:64:A:VAL:CB	1:122:A:LYS:CD	2	0.18	0.05	0.18
(2,608)	1:116:A:GLY:H	1:119:A:LEU:HD11	2	0.18	0.03	0.18
(2,608)	1:116:A:GLY:H	1:119:A:LEU:HD12	2	0.18	0.03	0.18
(2,608)	1:116:A:GLY:H	1:119:A:LEU:HD13	2	0.18	0.03	0.18
(2,608)	1:116:A:GLY:H	1:119:A:LEU:HD21	2	0.18	0.03	0.18
(2,608)	1:116:A:GLY:H	1:119:A:LEU:HD22	2	0.18	0.03	0.18
(2,608)	1:116:A:GLY:H	1:119:A:LEU:HD23	2	0.18	0.03	0.18
(2,1344)	1:109:A:THR:H	1:137:A:LEU:HD21	2	0.18	0.0	0.18
(2,1344)	1:109:A:THR:H	1:137:A:LEU:HD22	2	0.18	0.0	0.18
(2,1344)	1:109:A:THR:H	1:137:A:LEU:HD23	2	0.18	0.0	0.18
(2,1351)	1:33:A:ILE:HD11	1:39:A:MET:HE1	2	0.18	0.04	0.18
(2,1351)	1:33:A:ILE:HD11	1:39:A:MET:HE2	2	0.18	0.04	0.18
(2,1351)	1:33:A:ILE:HD11	1:39:A:MET:HE3	2	0.18	0.04	0.18
(2,1351)	1:33:A:ILE:HD12	1:39:A:MET:HE1	2	0.18	0.04	0.18
(2,1351)	1:33:A:ILE:HD12	1:39:A:MET:HE2	2	0.18	0.04	0.18
(2,1351)	1:33:A:ILE:HD12	1:39:A:MET:HE3	2	0.18	0.04	0.18
(2,1351)	1:33:A:ILE:HD13	1:39:A:MET:HE1	2	0.18	0.04	0.18
(2,1351)	1:33:A:ILE:HD13	1:39:A:MET:HE2	2	0.18	0.04	0.18
(2,1351)	1:33:A:ILE:HD13	1:39:A:MET:HE3	2	0.18	0.04	0.18
(2,1265)	1:21:A:GLU:H	1:170:A:VAL:HG21	2	0.16	0.02	0.16
(2,1265)	1:21:A:GLU:H	1:170:A:VAL:HG22	2	0.16	0.02	0.16
(2,1265)	1:21:A:GLU:H	1:170:A:VAL:HG23	2	0.16	0.02	0.16
(2,1371)	1:187:A:VAL:HG11	1:226:A:ILE:HD11	2	0.16	0.02	0.16
(2,1371)	1:187:A:VAL:HG11	1:226:A:ILE:HD12	2	0.16	0.02	0.16
(2,1371)	1:187:A:VAL:HG11	1:226:A:ILE:HD13	2	0.16	0.02	0.16
(2,1371)	1:187:A:VAL:HG12	1:226:A:ILE:HD11	2	0.16	0.02	0.16
(2,1371)	1:187:A:VAL:HG12	1:226:A:ILE:HD12	2	0.16	0.02	0.16

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,1371)	1:187:A:VAL:HG12	1:226:A:ILE:HD13	2	0.16	0.02	0.16
(2,1371)	1:187:A:VAL:HG13	1:226:A:ILE:HD11	2	0.16	0.02	0.16
(2,1371)	1:187:A:VAL:HG13	1:226:A:ILE:HD12	2	0.16	0.02	0.16
(2,1371)	1:187:A:VAL:HG13	1:226:A:ILE:HD13	2	0.16	0.02	0.16
(2,384)	1:79:A:LEU:HD11	1:106:A:THR:H	2	0.16	0.01	0.16
(2,384)	1:79:A:LEU:HD12	1:106:A:THR:H	2	0.16	0.01	0.16
(2,384)	1:79:A:LEU:HD13	1:106:A:THR:H	2	0.16	0.01	0.16
(2,384)	1:79:A:LEU:HD21	1:106:A:THR:H	2	0.16	0.01	0.16
(2,384)	1:79:A:LEU:HD22	1:106:A:THR:H	2	0.16	0.01	0.16
(2,384)	1:79:A:LEU:HD23	1:106:A:THR:H	2	0.16	0.01	0.16
(2,1412)	1:66:A:TRP:CE2	1:122:A:LYS:CE	2	0.16	0.04	0.16
(2,779)	1:149:A:GLU:H	1:208:A:VAL:H	2	0.15	0.04	0.15
(2,1311)	1:25:A:SER:H	1:188:A:SER:H	2	0.15	0.04	0.15
(2,236)	1:31:A:ILE:H	1:33:A:ILE:HD11	2	0.15	0.0	0.15
(2,236)	1:31:A:ILE:H	1:33:A:ILE:HD12	2	0.15	0.0	0.15
(2,236)	1:31:A:ILE:H	1:33:A:ILE:HD13	2	0.15	0.0	0.15
(2,991)	1:191:A:PHE:H	1:192:A:SER:HG	2	0.15	0.02	0.15
(2,141)	1:16:A:TRP:HE1	1:17:A:GLU:H	2	0.14	0.0	0.14
(1,9)	1:34:A:SER:O	1:38:A:SER:H	2	0.14	0.02	0.14
(2,520)	1:107:A:PHE:H	1:129:A:SER:HG	2	0.14	0.02	0.14
(2,1276)	1:111:A:TRP:HE1	1:133:A:VAL:HG21	2	0.14	0.02	0.14
(2,1276)	1:111:A:TRP:HE1	1:133:A:VAL:HG22	2	0.14	0.02	0.14
(2,1276)	1:111:A:TRP:HE1	1:133:A:VAL:HG23	2	0.14	0.02	0.14
(2,1287)	1:144:A:TRP:HE1	1:228:A:GLN:H	2	0.14	0.02	0.14
(1,154)	1:156:A:VAL:H	1:172:A:THR:O	2	0.13	0.03	0.13
(2,1434)	1:118:A:VAL:CG1	1:125:A:ARG:CG	2	0.13	0.02	0.13
(1,158)	1:179:A:THR:H	1:182:A:GLY:O	2	0.12	0.02	0.12
(2,1278)	1:186:A:ALA:H	1:226:A:ILE:HD11	2	0.12	0.02	0.12
(2,1278)	1:186:A:ALA:H	1:226:A:ILE:HD12	2	0.12	0.02	0.12
(2,1278)	1:186:A:ALA:H	1:226:A:ILE:HD13	2	0.12	0.02	0.12
(1,195)	1:7:A:GLU:O	1:87:A:LYS:N	2	0.12	0.01	0.12
(2,1381)	1:14:A:VAL:CG1	1:201:A:ILE:CD1	2	0.12	0.01	0.12
(1,188)	1:121:A:HIS:O	1:124:A:LYS:H	2	0.12	0.02	0.12
(1,32)	1:175:A:GLY:N	1:186:A:ALA:O	2	0.12	0.0	0.12
(2,1400)	1:65:A:LEU:C	1:122:A:LYS:CD	2	0.12	0.0	0.12
(1,85)	1:86:A:ILE:O	1:98:A:GLY:H	2	0.11	0.01	0.11
(1,138)	1:32:A:THR:O	1:40:A:SER:H	2	0.11	0.0	0.11
(1,170)	1:215:A:VAL:H	1:223:A:VAL:O	2	0.11	0.01	0.11
(1,180)	1:130:A:TRP:O	1:139:A:SER:H	2	0.11	0.01	0.11
(1,252)	1:107:A:PHE:H	1:140:A:TYR:O	2	0.11	0.01	0.11
(2,225)	1:29:A:LEU:HD11	1:219:A:SER:H	2	0.11	0.0	0.11
(2,225)	1:29:A:LEU:HD12	1:219:A:SER:H	2	0.11	0.0	0.11

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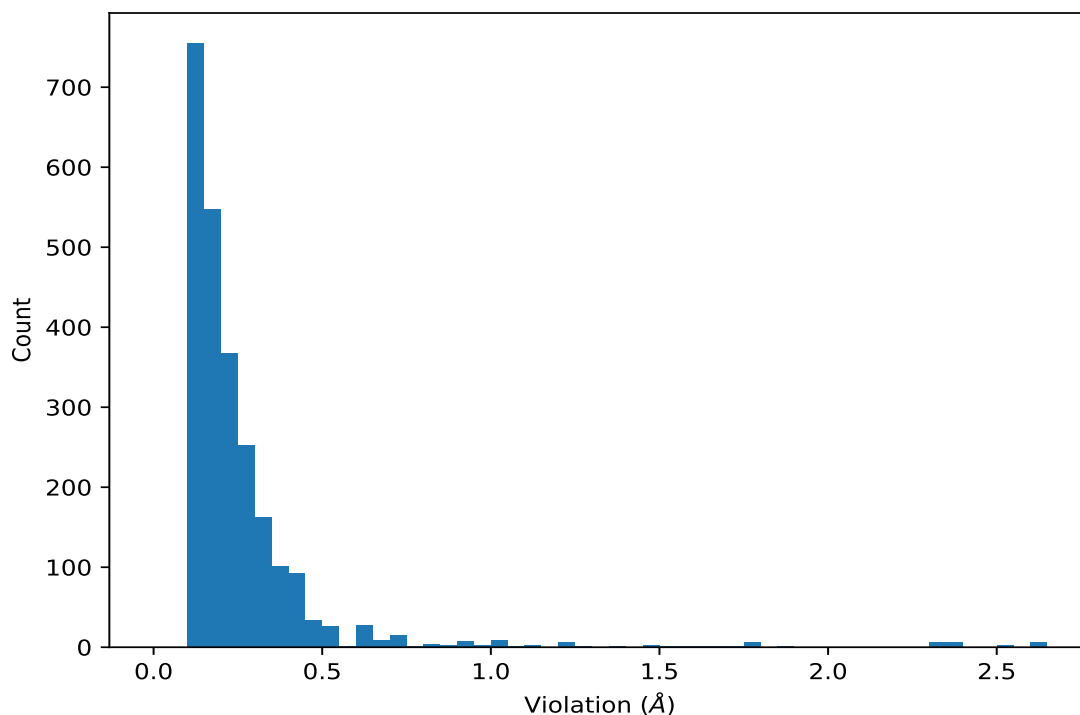
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,225)	1:29:A:LEU:HD13	1:219:A:SER:H	2	0.11	0.0	0.11
(2,225)	1:29:A:LEU:HD21	1:219:A:SER:H	2	0.11	0.0	0.11
(2,225)	1:29:A:LEU:HD22	1:219:A:SER:H	2	0.11	0.0	0.11
(2,225)	1:29:A:LEU:HD23	1:219:A:SER:H	2	0.11	0.0	0.11
(2,944)	1:181:A:ALA:H	1:184:A:ILE:HD11	2	0.11	0.0	0.11
(2,944)	1:181:A:ALA:H	1:184:A:ILE:HD12	2	0.11	0.0	0.11
(2,944)	1:181:A:ALA:H	1:184:A:ILE:HD13	2	0.11	0.0	0.11
(1,226)	1:90:A:GLY:H	1:93:A:GLY:O	2	0.11	0.0	0.11
(1,146)	1:160:A:ALA:H	1:168:A:ARG:O	2	0.1	0.0	0.1
(1,225)	1:88:A:GLN:N	1:95:A:SER:O	2	0.1	0.0	0.1

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)
(2,1189)	1:64:A:VAL:HG11	2:251:B:BEZ:H6	10	2.62
(2,1189)	1:64:A:VAL:HG12	2:251:B:BEZ:H6	10	2.62
(2,1189)	1:64:A:VAL:HG13	2:251:B:BEZ:H6	10	2.62
(2,1189)	1:64:A:VAL:HG21	2:251:B:BEZ:H6	10	2.62
(2,1189)	1:64:A:VAL:HG22	2:251:B:BEZ:H6	10	2.62
(2,1189)	1:64:A:VAL:HG23	2:251:B:BEZ:H6	10	2.62
(2,1178)	1:91:A:ILE:HD11	2:251:B:BEZ:H6	7	2.53
(2,1178)	1:91:A:ILE:HD12	2:251:B:BEZ:H6	7	2.53
(2,1178)	1:91:A:ILE:HD13	2:251:B:BEZ:H6	7	2.53
(2,1189)	1:64:A:VAL:HG11	2:251:B:BEZ:H6	2	2.35
(2,1189)	1:64:A:VAL:HG12	2:251:B:BEZ:H6	2	2.35
(2,1189)	1:64:A:VAL:HG13	2:251:B:BEZ:H6	2	2.35
(2,1189)	1:64:A:VAL:HG21	2:251:B:BEZ:H6	2	2.35
(2,1189)	1:64:A:VAL:HG22	2:251:B:BEZ:H6	2	2.35
(2,1189)	1:64:A:VAL:HG23	2:251:B:BEZ:H6	2	2.35
(2,1189)	1:64:A:VAL:HG11	2:251:B:BEZ:H6	3	2.3
(2,1189)	1:64:A:VAL:HG12	2:251:B:BEZ:H6	3	2.3
(2,1189)	1:64:A:VAL:HG13	2:251:B:BEZ:H6	3	2.3
(2,1189)	1:64:A:VAL:HG21	2:251:B:BEZ:H6	3	2.3
(2,1189)	1:64:A:VAL:HG22	2:251:B:BEZ:H6	3	2.3
(2,1189)	1:64:A:VAL:HG23	2:251:B:BEZ:H6	3	2.3
(2,1380)	1:10:A:ARG:CB	1:84:A:TYR:CE2	9	1.85
(2,1189)	1:64:A:VAL:HG11	2:251:B:BEZ:H6	5	1.79
(2,1189)	1:64:A:VAL:HG12	2:251:B:BEZ:H6	5	1.79
(2,1189)	1:64:A:VAL:HG13	2:251:B:BEZ:H6	5	1.79
(2,1189)	1:64:A:VAL:HG21	2:251:B:BEZ:H6	5	1.79
(2,1189)	1:64:A:VAL:HG22	2:251:B:BEZ:H6	5	1.79
(2,1189)	1:64:A:VAL:HG23	2:251:B:BEZ:H6	5	1.79
(2,1380)	1:10:A:ARG:CB	1:84:A:TYR:CE2	8	1.72
(2,1435)	1:127:A:GLU:C	1:140:A:TYR:CD2	4	1.69
(2,1435)	1:127:A:GLU:C	1:140:A:TYR:CD2	10	1.64
(2,1435)	1:127:A:GLU:C	1:140:A:TYR:CD2	7	1.56
(2,1435)	1:127:A:GLU:C	1:140:A:TYR:CD2	3	1.53
(2,1430)	1:89:A:LYS:CB	1:94:A:TYR:CE1	7	1.48
(2,1435)	1:127:A:GLU:C	1:140:A:TYR:CD2	6	1.47
(2,1429)	1:79:A:LEU:C	1:102:A:TYR:CD2	9	1.38
(2,1428)	1:79:A:LEU:C	1:102:A:TYR:CE2	9	1.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1428)	1:79:A:LEU:C	1:102:A:TYR:CE2	7	1.24
(2,1430)	1:89:A:LYS:CB	1:94:A:TYR:CE1	10	1.23
(2,1429)	1:79:A:LEU:C	1:102:A:TYR:CD2	7	1.23
(2,1322)	1:6:A:LEU:HD21	1:88:A:GLN:H	4	1.21
(2,1322)	1:6:A:LEU:HD22	1:88:A:GLN:H	4	1.21
(2,1322)	1:6:A:LEU:HD23	1:88:A:GLN:H	4	1.21
(2,1378)	1:9:A:GLU:C	1:84:A:TYR:CD2	9	1.12
(2,1378)	1:9:A:GLU:C	1:84:A:TYR:CD2	2	1.1
(2,1380)	1:10:A:ARG:CB	1:84:A:TYR:CE2	1	1.07
(2,1379)	1:10:A:ARG:CA	1:84:A:TYR:CD2	9	1.03
(2,1430)	1:89:A:LYS:CB	1:94:A:TYR:CE1	1	1.01
(2,1380)	1:10:A:ARG:CB	1:84:A:TYR:CE2	2	1.0
(2,1189)	1:64:A:VAL:HG11	2:251:B:BEZ:H6	4	1.0
(2,1189)	1:64:A:VAL:HG12	2:251:B:BEZ:H6	4	1.0
(2,1189)	1:64:A:VAL:HG13	2:251:B:BEZ:H6	4	1.0
(2,1189)	1:64:A:VAL:HG21	2:251:B:BEZ:H6	4	1.0
(2,1189)	1:64:A:VAL:HG22	2:251:B:BEZ:H6	4	1.0
(2,1189)	1:64:A:VAL:HG23	2:251:B:BEZ:H6	4	1.0
(2,1322)	1:6:A:LEU:HD21	1:88:A:GLN:H	9	0.95
(2,1322)	1:6:A:LEU:HD22	1:88:A:GLN:H	9	0.95
(2,1322)	1:6:A:LEU:HD23	1:88:A:GLN:H	9	0.95
(2,1379)	1:10:A:ARG:CA	1:84:A:TYR:CD2	8	0.92
(2,1191)	1:65:A:LEU:HD11	2:251:B:BEZ:H6	5	0.92
(2,1191)	1:65:A:LEU:HD12	2:251:B:BEZ:H6	5	0.92
(2,1191)	1:65:A:LEU:HD13	2:251:B:BEZ:H6	5	0.92
(2,1191)	1:65:A:LEU:HD21	2:251:B:BEZ:H6	5	0.92
(2,1191)	1:65:A:LEU:HD22	2:251:B:BEZ:H6	5	0.92
(2,1191)	1:65:A:LEU:HD23	2:251:B:BEZ:H6	5	0.92
(2,1312)	1:21:A:GLU:H	1:170:A:VAL:HG11	10	0.89
(2,1312)	1:21:A:GLU:H	1:170:A:VAL:HG12	10	0.89
(2,1312)	1:21:A:GLU:H	1:170:A:VAL:HG13	10	0.89
(2,452)	1:91:A:ILE:HD11	1:95:A:SER:H	6	0.84
(2,452)	1:91:A:ILE:HD12	1:95:A:SER:H	6	0.84
(2,452)	1:91:A:ILE:HD13	1:95:A:SER:H	6	0.84
(2,1378)	1:9:A:GLU:C	1:84:A:TYR:CD2	8	0.8
(2,1379)	1:10:A:ARG:CA	1:84:A:TYR:CD2	2	0.76
(2,1179)	1:118:A:VAL:HG11	2:251:B:BEZ:H4	8	0.74
(2,1179)	1:118:A:VAL:HG12	2:251:B:BEZ:H4	8	0.74
(2,1179)	1:118:A:VAL:HG13	2:251:B:BEZ:H4	8	0.74
(2,1197)	1:68:A:VAL:HG11	2:252:B:NLE:HB2	9	0.71
(2,1197)	1:68:A:VAL:HG11	2:252:B:NLE:HB3	9	0.71
(2,1197)	1:68:A:VAL:HG12	2:252:B:NLE:HB2	9	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1197)	1:68:A:VAL:HG12	2:252:B:NLE:HB3	9	0.71
(2,1197)	1:68:A:VAL:HG13	2:252:B:NLE:HB2	9	0.71
(2,1197)	1:68:A:VAL:HG13	2:252:B:NLE:HB3	9	0.71
(2,1197)	1:68:A:VAL:HG21	2:252:B:NLE:HB2	9	0.71
(2,1197)	1:68:A:VAL:HG21	2:252:B:NLE:HB3	9	0.71
(2,1197)	1:68:A:VAL:HG22	2:252:B:NLE:HB2	9	0.71
(2,1197)	1:68:A:VAL:HG22	2:252:B:NLE:HB3	9	0.71
(2,1197)	1:68:A:VAL:HG23	2:252:B:NLE:HB2	9	0.71
(2,1197)	1:68:A:VAL:HG23	2:252:B:NLE:HB3	9	0.71
(2,1189)	1:64:A:VAL:HG11	2:251:B:BEZ:H6	7	0.66
(2,1189)	1:64:A:VAL:HG12	2:251:B:BEZ:H6	7	0.66
(2,1189)	1:64:A:VAL:HG13	2:251:B:BEZ:H6	7	0.66
(2,1189)	1:64:A:VAL:HG21	2:251:B:BEZ:H6	7	0.66
(2,1189)	1:64:A:VAL:HG22	2:251:B:BEZ:H6	7	0.66
(2,1189)	1:64:A:VAL:HG23	2:251:B:BEZ:H6	7	0.66
(2,1154)	1:50:A:LEU:HD11	2:251:B:BEZ:H6	7	0.66
(2,1154)	1:50:A:LEU:HD12	2:251:B:BEZ:H6	7	0.66
(2,1154)	1:50:A:LEU:HD13	2:251:B:BEZ:H6	7	0.66
(2,1406)	1:66:A:TRP:CD1	1:121:A:HIS:CD2	7	0.62
(2,1197)	1:68:A:VAL:HG11	2:252:B:NLE:HB2	2	0.62
(2,1197)	1:68:A:VAL:HG11	2:252:B:NLE:HB3	2	0.62
(2,1197)	1:68:A:VAL:HG12	2:252:B:NLE:HB2	2	0.62
(2,1197)	1:68:A:VAL:HG12	2:252:B:NLE:HB3	2	0.62
(2,1197)	1:68:A:VAL:HG13	2:252:B:NLE:HB2	2	0.62
(2,1197)	1:68:A:VAL:HG13	2:252:B:NLE:HB3	2	0.62
(2,1197)	1:68:A:VAL:HG21	2:252:B:NLE:HB2	2	0.62
(2,1197)	1:68:A:VAL:HG21	2:252:B:NLE:HB3	2	0.62
(2,1197)	1:68:A:VAL:HG22	2:252:B:NLE:HB2	2	0.62
(2,1197)	1:68:A:VAL:HG22	2:252:B:NLE:HB3	2	0.62
(2,1197)	1:68:A:VAL:HG23	2:252:B:NLE:HB2	2	0.62
(2,1197)	1:68:A:VAL:HG23	2:252:B:NLE:HB3	2	0.62
(2,1379)	1:10:A:ARG:CA	1:84:A:TYR:CD2	1	0.61
(2,1378)	1:9:A:GLU:C	1:84:A:TYR:CD2	1	0.61
(2,1197)	1:68:A:VAL:HG11	2:252:B:NLE:HB2	1	0.6
(2,1197)	1:68:A:VAL:HG11	2:252:B:NLE:HB3	1	0.6
(2,1197)	1:68:A:VAL:HG12	2:252:B:NLE:HB2	1	0.6
(2,1197)	1:68:A:VAL:HG12	2:252:B:NLE:HB3	1	0.6
(2,1197)	1:68:A:VAL:HG13	2:252:B:NLE:HB2	1	0.6
(2,1197)	1:68:A:VAL:HG13	2:252:B:NLE:HB3	1	0.6
(2,1197)	1:68:A:VAL:HG21	2:252:B:NLE:HB2	1	0.6
(2,1197)	1:68:A:VAL:HG21	2:252:B:NLE:HB3	1	0.6
(2,1197)	1:68:A:VAL:HG22	2:252:B:NLE:HB2	1	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1197)	1:68:A:VAL:HG22	2:252:B:NLE:HB3	1	0.6
(2,1197)	1:68:A:VAL:HG23	2:252:B:NLE:HB2	1	0.6
(2,1197)	1:68:A:VAL:HG23	2:252:B:NLE:HB3	1	0.6
(2,1406)	1:66:A:TRP:CD1	1:121:A:HIS:CD2	1	0.56
(2,1345)	1:6:A:LEU:HD21	1:119:A:LEU:HD11	9	0.54
(2,1345)	1:6:A:LEU:HD21	1:119:A:LEU:HD12	9	0.54
(2,1345)	1:6:A:LEU:HD21	1:119:A:LEU:HD13	9	0.54
(2,1345)	1:6:A:LEU:HD22	1:119:A:LEU:HD11	9	0.54
(2,1345)	1:6:A:LEU:HD22	1:119:A:LEU:HD12	9	0.54
(2,1345)	1:6:A:LEU:HD22	1:119:A:LEU:HD13	9	0.54
(2,1345)	1:6:A:LEU:HD23	1:119:A:LEU:HD11	9	0.54
(2,1345)	1:6:A:LEU:HD23	1:119:A:LEU:HD12	9	0.54
(2,1345)	1:6:A:LEU:HD23	1:119:A:LEU:HD13	9	0.54
(2,787)	1:150:A:TRP:H	1:208:A:VAL:HG11	2	0.53
(2,787)	1:150:A:TRP:H	1:208:A:VAL:HG12	2	0.53
(2,787)	1:150:A:TRP:H	1:208:A:VAL:HG13	2	0.53
(2,787)	1:150:A:TRP:H	1:208:A:VAL:HG21	2	0.53
(2,787)	1:150:A:TRP:H	1:208:A:VAL:HG22	2	0.53
(2,787)	1:150:A:TRP:H	1:208:A:VAL:HG23	2	0.53
(2,1393)	1:64:A:VAL:CG2	1:122:A:LYS:CA	9	0.51
(2,1360)	1:187:A:VAL:HG21	1:226:A:ILE:HD11	9	0.51
(2,1360)	1:187:A:VAL:HG21	1:226:A:ILE:HD12	9	0.51
(2,1360)	1:187:A:VAL:HG21	1:226:A:ILE:HD13	9	0.51
(2,1360)	1:187:A:VAL:HG22	1:226:A:ILE:HD11	9	0.51
(2,1360)	1:187:A:VAL:HG22	1:226:A:ILE:HD12	9	0.51
(2,1360)	1:187:A:VAL:HG22	1:226:A:ILE:HD13	9	0.51
(2,1360)	1:187:A:VAL:HG23	1:226:A:ILE:HD11	9	0.51
(2,1360)	1:187:A:VAL:HG23	1:226:A:ILE:HD12	9	0.51
(2,1360)	1:187:A:VAL:HG23	1:226:A:ILE:HD13	9	0.51
(2,369)	1:66:A:TRP:HE1	1:67:A:ASP:H	3	0.5
(2,1345)	1:6:A:LEU:HD21	1:119:A:LEU:HD11	5	0.49
(2,1345)	1:6:A:LEU:HD21	1:119:A:LEU:HD12	5	0.49
(2,1345)	1:6:A:LEU:HD21	1:119:A:LEU:HD13	5	0.49
(2,1345)	1:6:A:LEU:HD22	1:119:A:LEU:HD11	5	0.49
(2,1345)	1:6:A:LEU:HD22	1:119:A:LEU:HD12	5	0.49
(2,1345)	1:6:A:LEU:HD22	1:119:A:LEU:HD13	5	0.49
(2,1345)	1:6:A:LEU:HD23	1:119:A:LEU:HD11	5	0.49
(2,1345)	1:6:A:LEU:HD23	1:119:A:LEU:HD12	5	0.49
(2,1345)	1:6:A:LEU:HD23	1:119:A:LEU:HD13	5	0.49
(2,1393)	1:64:A:VAL:CG2	1:122:A:LYS:CA	1	0.48
(2,1179)	1:118:A:VAL:HG11	2:251:B:BEZ:H4	9	0.48
(2,1179)	1:118:A:VAL:HG12	2:251:B:BEZ:H4	9	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1179)	1:118:A:VAL:HG13	2:251:B:BEZ:H4	9	0.48
(2,1423)	1:67:A:ASP:C	1:78:A:GLU:CD	3	0.47
(2,1406)	1:66:A:TRP:CD1	1:121:A:HIS:CD2	4	0.47
(2,1178)	1:91:A:ILE:HD11	2:251:B:BEZ:H6	10	0.47
(2,1178)	1:91:A:ILE:HD12	2:251:B:BEZ:H6	10	0.47
(2,1178)	1:91:A:ILE:HD13	2:251:B:BEZ:H6	10	0.47
(2,1280)	1:189:A:LEU:H	1:224:A:SER:H	9	0.46
(2,1196)	1:65:A:LEU:HD11	2:255:B:M9P:HD	3	0.45
(2,1196)	1:65:A:LEU:HD11	2:255:B:M9P:HDA	3	0.45
(2,1196)	1:65:A:LEU:HD12	2:255:B:M9P:HD	3	0.45
(2,1196)	1:65:A:LEU:HD12	2:255:B:M9P:HDA	3	0.45
(2,1196)	1:65:A:LEU:HD13	2:255:B:M9P:HD	3	0.45
(2,1196)	1:65:A:LEU:HD13	2:255:B:M9P:HDA	3	0.45
(2,1196)	1:65:A:LEU:HD21	2:255:B:M9P:HD	3	0.45
(2,1196)	1:65:A:LEU:HD21	2:255:B:M9P:HDA	3	0.45
(2,1196)	1:65:A:LEU:HD22	2:255:B:M9P:HD	3	0.45
(2,1196)	1:65:A:LEU:HD22	2:255:B:M9P:HDA	3	0.45
(2,1196)	1:65:A:LEU:HD23	2:255:B:M9P:HD	3	0.45
(2,1196)	1:65:A:LEU:HD23	2:255:B:M9P:HDA	3	0.45
(2,464)	1:95:A:SER:H	1:97:A:ILE:HD11	9	0.45
(2,464)	1:95:A:SER:H	1:97:A:ILE:HD12	9	0.45
(2,464)	1:95:A:SER:H	1:97:A:ILE:HD13	9	0.45
(2,1422)	1:67:A:ASP:CG	1:80:A:GLU:C	4	0.44
(2,1399)	1:65:A:LEU:CA	1:122:A:LYS:CE	5	0.44
(2,1343)	1:99:A:ALA:H	1:113:A:VAL:HG11	8	0.44
(2,1343)	1:99:A:ALA:H	1:113:A:VAL:HG12	8	0.44
(2,1343)	1:99:A:ALA:H	1:113:A:VAL:HG13	8	0.44
(2,1196)	1:65:A:LEU:HD11	2:255:B:M9P:HD	2	0.44
(2,1196)	1:65:A:LEU:HD11	2:255:B:M9P:HDA	2	0.44
(2,1196)	1:65:A:LEU:HD12	2:255:B:M9P:HD	2	0.44
(2,1196)	1:65:A:LEU:HD12	2:255:B:M9P:HDA	2	0.44
(2,1196)	1:65:A:LEU:HD13	2:255:B:M9P:HD	2	0.44
(2,1196)	1:65:A:LEU:HD13	2:255:B:M9P:HDA	2	0.44
(2,1196)	1:65:A:LEU:HD21	2:255:B:M9P:HD	2	0.44
(2,1196)	1:65:A:LEU:HD21	2:255:B:M9P:HDA	2	0.44
(2,1196)	1:65:A:LEU:HD22	2:255:B:M9P:HD	2	0.44
(2,1196)	1:65:A:LEU:HD22	2:255:B:M9P:HDA	2	0.44
(2,1196)	1:65:A:LEU:HD23	2:255:B:M9P:HD	2	0.44
(2,1196)	1:65:A:LEU:HD23	2:255:B:M9P:HDA	2	0.44
(2,1191)	1:65:A:LEU:HD11	2:251:B:BEZ:H6	1	0.44
(2,1191)	1:65:A:LEU:HD12	2:251:B:BEZ:H6	1	0.44
(2,1191)	1:65:A:LEU:HD13	2:251:B:BEZ:H6	1	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1191)	1:65:A:LEU:HD21	2:251:B:BEZ:H6	1	0.44
(2,1191)	1:65:A:LEU:HD22	2:251:B:BEZ:H6	1	0.44
(2,1191)	1:65:A:LEU:HD23	2:251:B:BEZ:H6	1	0.44
(2,1178)	1:91:A:ILE:HD11	2:251:B:BEZ:H6	5	0.44
(2,1178)	1:91:A:ILE:HD12	2:251:B:BEZ:H6	5	0.44
(2,1178)	1:91:A:ILE:HD13	2:251:B:BEZ:H6	5	0.44
(2,810)	1:156:A:VAL:H	1:226:A:ILE:HD11	9	0.44
(2,810)	1:156:A:VAL:H	1:226:A:ILE:HD12	9	0.44
(2,810)	1:156:A:VAL:H	1:226:A:ILE:HD13	9	0.44
(2,370)	1:66:A:TRP:HE1	1:68:A:VAL:HG11	7	0.44
(2,370)	1:66:A:TRP:HE1	1:68:A:VAL:HG12	7	0.44
(2,370)	1:66:A:TRP:HE1	1:68:A:VAL:HG13	7	0.44
(2,370)	1:66:A:TRP:HE1	1:68:A:VAL:HG21	7	0.44
(2,370)	1:66:A:TRP:HE1	1:68:A:VAL:HG22	7	0.44
(2,370)	1:66:A:TRP:HE1	1:68:A:VAL:HG23	7	0.44
(2,350)	1:64:A:VAL:H	1:66:A:TRP:H	6	0.44
(1,132)	1:112:A:HIS:NE2	1:196:A:SER:OG	9	0.44
(2,1435)	1:127:A:GLU:C	1:140:A:TYR:CD2	8	0.43
(2,1401)	1:65:A:LEU:C	1:122:A:LYS:CE	5	0.43
(2,1349)	1:31:A:ILE:HD11	1:184:A:ILE:HD11	6	0.43
(2,1349)	1:31:A:ILE:HD11	1:184:A:ILE:HD12	6	0.43
(2,1349)	1:31:A:ILE:HD11	1:184:A:ILE:HD13	6	0.43
(2,1349)	1:31:A:ILE:HD12	1:184:A:ILE:HD11	6	0.43
(2,1349)	1:31:A:ILE:HD12	1:184:A:ILE:HD12	6	0.43
(2,1349)	1:31:A:ILE:HD12	1:184:A:ILE:HD13	6	0.43
(2,1349)	1:31:A:ILE:HD13	1:184:A:ILE:HD11	6	0.43
(2,1349)	1:31:A:ILE:HD13	1:184:A:ILE:HD12	6	0.43
(2,1349)	1:31:A:ILE:HD13	1:184:A:ILE:HD13	6	0.43
(2,1179)	1:118:A:VAL:HG11	2:251:B:BEZ:H4	1	0.43
(2,1179)	1:118:A:VAL:HG12	2:251:B:BEZ:H4	1	0.43
(2,1179)	1:118:A:VAL:HG13	2:251:B:BEZ:H4	1	0.43
(2,369)	1:66:A:TRP:HE1	1:67:A:ASP:H	1	0.43
(2,366)	1:66:A:TRP:H	1:66:A:TRP:HE1	8	0.43
(2,1406)	1:66:A:TRP:CD1	1:121:A:HIS:CD2	3	0.42
(2,1406)	1:66:A:TRP:CD1	1:121:A:HIS:CD2	10	0.41
(2,1343)	1:99:A:ALA:H	1:113:A:VAL:HG11	1	0.41
(2,1343)	1:99:A:ALA:H	1:113:A:VAL:HG12	1	0.41
(2,1343)	1:99:A:ALA:H	1:113:A:VAL:HG13	1	0.41
(2,1197)	1:68:A:VAL:HG11	2:252:B:NLE:HB2	5	0.41
(2,1197)	1:68:A:VAL:HG11	2:252:B:NLE:HB3	5	0.41
(2,1197)	1:68:A:VAL:HG12	2:252:B:NLE:HB2	5	0.41
(2,1197)	1:68:A:VAL:HG12	2:252:B:NLE:HB3	5	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1197)	1:68:A:VAL:HG13	2:252:B:NLE:HB2	5	0.41
(2,1197)	1:68:A:VAL:HG13	2:252:B:NLE:HB3	5	0.41
(2,1197)	1:68:A:VAL:HG21	2:252:B:NLE:HB2	5	0.41
(2,1197)	1:68:A:VAL:HG21	2:252:B:NLE:HB3	5	0.41
(2,1197)	1:68:A:VAL:HG22	2:252:B:NLE:HB2	5	0.41
(2,1197)	1:68:A:VAL:HG22	2:252:B:NLE:HB3	5	0.41
(2,1197)	1:68:A:VAL:HG23	2:252:B:NLE:HB2	5	0.41
(2,1197)	1:68:A:VAL:HG23	2:252:B:NLE:HB3	5	0.41
(2,781)	1:149:A:GLU:H	1:209:A:GLY:H	8	0.41
(2,1398)	1:65:A:LEU:CA	1:122:A:LYS:CD	8	0.4
(2,1197)	1:68:A:VAL:HG11	2:252:B:NLE:HB2	10	0.4
(2,1197)	1:68:A:VAL:HG11	2:252:B:NLE:HB3	10	0.4
(2,1197)	1:68:A:VAL:HG12	2:252:B:NLE:HB2	10	0.4
(2,1197)	1:68:A:VAL:HG12	2:252:B:NLE:HB3	10	0.4
(2,1197)	1:68:A:VAL:HG13	2:252:B:NLE:HB2	10	0.4
(2,1197)	1:68:A:VAL:HG13	2:252:B:NLE:HB3	10	0.4
(2,1197)	1:68:A:VAL:HG21	2:252:B:NLE:HB2	10	0.4
(2,1197)	1:68:A:VAL:HG21	2:252:B:NLE:HB3	10	0.4
(2,1197)	1:68:A:VAL:HG22	2:252:B:NLE:HB2	10	0.4
(2,1197)	1:68:A:VAL:HG22	2:252:B:NLE:HB3	10	0.4
(2,1197)	1:68:A:VAL:HG23	2:252:B:NLE:HB2	10	0.4
(2,1197)	1:68:A:VAL:HG23	2:252:B:NLE:HB3	10	0.4
(2,1178)	1:91:A:ILE:HD11	2:251:B:BEZ:H6	6	0.4
(2,1178)	1:91:A:ILE:HD12	2:251:B:BEZ:H6	6	0.4
(2,1178)	1:91:A:ILE:HD13	2:251:B:BEZ:H6	6	0.4
(2,452)	1:91:A:ILE:HD11	1:95:A:SER:H	2	0.4
(2,452)	1:91:A:ILE:HD12	1:95:A:SER:H	2	0.4
(2,452)	1:91:A:ILE:HD13	1:95:A:SER:H	2	0.4
(2,351)	1:64:A:VAL:H	1:66:A:TRP:HE1	5	0.4
(1,166)	1:175:A:GLY:O	1:186:A:ALA:H	9	0.4
(1,136)	1:8:A:LEU:H	1:120:A:MET:O	6	0.4
(2,1396)	1:64:A:VAL:C	1:122:A:LYS:CD	6	0.39
(2,1189)	1:64:A:VAL:HG11	2:251:B:BEZ:H6	6	0.39
(2,1189)	1:64:A:VAL:HG12	2:251:B:BEZ:H6	6	0.39
(2,1189)	1:64:A:VAL:HG13	2:251:B:BEZ:H6	6	0.39
(2,1189)	1:64:A:VAL:HG21	2:251:B:BEZ:H6	6	0.39
(2,1189)	1:64:A:VAL:HG22	2:251:B:BEZ:H6	6	0.39
(2,1189)	1:64:A:VAL:HG23	2:251:B:BEZ:H6	6	0.39
(2,766)	1:147:A:GLU:H	1:207:A:VAL:HG11	8	0.39
(2,766)	1:147:A:GLU:H	1:207:A:VAL:HG12	8	0.39
(2,766)	1:147:A:GLU:H	1:207:A:VAL:HG13	8	0.39
(2,766)	1:147:A:GLU:H	1:207:A:VAL:HG21	8	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,766)	1:147:A:GLU:H	1:207:A:VAL:HG22	8	0.39
(2,766)	1:147:A:GLU:H	1:207:A:VAL:HG23	8	0.39
(2,1398)	1:65:A:LEU:CA	1:122:A:LYS:CD	5	0.38
(2,1349)	1:31:A:ILE:HD11	1:184:A:ILE:HD11	1	0.38
(2,1349)	1:31:A:ILE:HD11	1:184:A:ILE:HD12	1	0.38
(2,1349)	1:31:A:ILE:HD11	1:184:A:ILE:HD13	1	0.38
(2,1349)	1:31:A:ILE:HD12	1:184:A:ILE:HD11	1	0.38
(2,1349)	1:31:A:ILE:HD12	1:184:A:ILE:HD12	1	0.38
(2,1349)	1:31:A:ILE:HD12	1:184:A:ILE:HD13	1	0.38
(2,1349)	1:31:A:ILE:HD13	1:184:A:ILE:HD11	1	0.38
(2,1349)	1:31:A:ILE:HD13	1:184:A:ILE:HD12	1	0.38
(2,1349)	1:31:A:ILE:HD13	1:184:A:ILE:HD13	1	0.38
(2,1197)	1:68:A:VAL:HG11	2:252:B:NLE:HB2	8	0.38
(2,1197)	1:68:A:VAL:HG11	2:252:B:NLE:HB3	8	0.38
(2,1197)	1:68:A:VAL:HG12	2:252:B:NLE:HB2	8	0.38
(2,1197)	1:68:A:VAL:HG12	2:252:B:NLE:HB3	8	0.38
(2,1197)	1:68:A:VAL:HG13	2:252:B:NLE:HB2	8	0.38
(2,1197)	1:68:A:VAL:HG13	2:252:B:NLE:HB3	8	0.38
(2,1197)	1:68:A:VAL:HG21	2:252:B:NLE:HB2	8	0.38
(2,1197)	1:68:A:VAL:HG21	2:252:B:NLE:HB3	8	0.38
(2,1197)	1:68:A:VAL:HG22	2:252:B:NLE:HB2	8	0.38
(2,1197)	1:68:A:VAL:HG22	2:252:B:NLE:HB3	8	0.38
(2,1197)	1:68:A:VAL:HG23	2:252:B:NLE:HB2	8	0.38
(2,1197)	1:68:A:VAL:HG23	2:252:B:NLE:HB3	8	0.38
(2,1432)	1:108:A:HIS:CD2	1:144:A:TRP:CE3	9	0.37
(2,1411)	1:66:A:TRP:CD2	1:122:A:LYS:CE	3	0.37
(2,1398)	1:65:A:LEU:CA	1:122:A:LYS:CD	2	0.37
(2,1377)	1:9:A:GLU:CD	1:51:A:GLY:CA	3	0.37
(2,1190)	1:64:A:VAL:HG11	2:252:B:NLE:HB2	10	0.37
(2,1190)	1:64:A:VAL:HG11	2:252:B:NLE:HB3	10	0.37
(2,1190)	1:64:A:VAL:HG12	2:252:B:NLE:HB2	10	0.37
(2,1190)	1:64:A:VAL:HG12	2:252:B:NLE:HB3	10	0.37
(2,1190)	1:64:A:VAL:HG13	2:252:B:NLE:HB2	10	0.37
(2,1190)	1:64:A:VAL:HG13	2:252:B:NLE:HB3	10	0.37
(2,1190)	1:64:A:VAL:HG21	2:252:B:NLE:HB2	10	0.37
(2,1190)	1:64:A:VAL:HG21	2:252:B:NLE:HB3	10	0.37
(2,1190)	1:64:A:VAL:HG22	2:252:B:NLE:HB2	10	0.37
(2,1190)	1:64:A:VAL:HG22	2:252:B:NLE:HB3	10	0.37
(2,1190)	1:64:A:VAL:HG23	2:252:B:NLE:HB2	10	0.37
(2,1190)	1:64:A:VAL:HG23	2:252:B:NLE:HB3	10	0.37
(2,1422)	1:67:A:ASP:CG	1:80:A:GLU:C	1	0.36
(2,1213)	1:126:A:ILE:HD11	2:252:B:NLE:HD2	8	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1213)	1:126:A:ILE:HD11	2:252:B:NLE:HD3	8	0.36
(2,1213)	1:126:A:ILE:HD12	2:252:B:NLE:HD2	8	0.36
(2,1213)	1:126:A:ILE:HD12	2:252:B:NLE:HD3	8	0.36
(2,1213)	1:126:A:ILE:HD13	2:252:B:NLE:HD2	8	0.36
(2,1213)	1:126:A:ILE:HD13	2:252:B:NLE:HD3	8	0.36
(2,369)	1:66:A:TRP:HE1	1:67:A:ASP:H	10	0.36
(1,166)	1:175:A:GLY:O	1:186:A:ALA:H	10	0.36
(2,1430)	1:89:A:LYS:CB	1:94:A:TYR:CE1	6	0.35
(2,1393)	1:64:A:VAL:CG2	1:122:A:LYS:CA	8	0.35
(2,1312)	1:21:A:GLU:H	1:170:A:VAL:HG11	7	0.35
(2,1312)	1:21:A:GLU:H	1:170:A:VAL:HG12	7	0.35
(2,1312)	1:21:A:GLU:H	1:170:A:VAL:HG13	7	0.35
(2,1229)	1:97:A:ILE:HD11	1:109:A:THR:HG1	8	0.35
(2,1229)	1:97:A:ILE:HD12	1:109:A:THR:HG1	8	0.35
(2,1229)	1:97:A:ILE:HD13	1:109:A:THR:HG1	8	0.35
(2,1197)	1:68:A:VAL:HG11	2:252:B:NLE:HB2	7	0.35
(2,1197)	1:68:A:VAL:HG11	2:252:B:NLE:HB3	7	0.35
(2,1197)	1:68:A:VAL:HG12	2:252:B:NLE:HB2	7	0.35
(2,1197)	1:68:A:VAL:HG12	2:252:B:NLE:HB3	7	0.35
(2,1197)	1:68:A:VAL:HG13	2:252:B:NLE:HB2	7	0.35
(2,1197)	1:68:A:VAL:HG13	2:252:B:NLE:HB3	7	0.35
(2,1197)	1:68:A:VAL:HG21	2:252:B:NLE:HB2	7	0.35
(2,1197)	1:68:A:VAL:HG21	2:252:B:NLE:HB3	7	0.35
(2,1197)	1:68:A:VAL:HG22	2:252:B:NLE:HB2	7	0.35
(2,1197)	1:68:A:VAL:HG22	2:252:B:NLE:HB3	7	0.35
(2,1197)	1:68:A:VAL:HG23	2:252:B:NLE:HB2	7	0.35
(2,1197)	1:68:A:VAL:HG23	2:252:B:NLE:HB3	7	0.35
(2,1179)	1:118:A:VAL:HG11	2:251:B:BEZ:H4	5	0.35
(2,1179)	1:118:A:VAL:HG12	2:251:B:BEZ:H4	5	0.35
(2,1179)	1:118:A:VAL:HG13	2:251:B:BEZ:H4	5	0.35
(2,1176)	1:97:A:ILE:HD11	1:109:A:THR:HG1	8	0.35
(2,1176)	1:97:A:ILE:HD12	1:109:A:THR:HG1	8	0.35
(2,1176)	1:97:A:ILE:HD13	1:109:A:THR:HG1	8	0.35
(2,1154)	1:50:A:LEU:HD11	2:251:B:BEZ:H6	9	0.35
(2,1154)	1:50:A:LEU:HD12	2:251:B:BEZ:H6	9	0.35
(2,1154)	1:50:A:LEU:HD13	2:251:B:BEZ:H6	9	0.35
(2,787)	1:150:A:TRP:H	1:208:A:VAL:HG11	9	0.35
(2,787)	1:150:A:TRP:H	1:208:A:VAL:HG12	9	0.35
(2,787)	1:150:A:TRP:H	1:208:A:VAL:HG13	9	0.35
(2,787)	1:150:A:TRP:H	1:208:A:VAL:HG21	9	0.35
(2,787)	1:150:A:TRP:H	1:208:A:VAL:HG22	9	0.35
(2,787)	1:150:A:TRP:H	1:208:A:VAL:HG23	9	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,619)	1:118:A:VAL:H	1:120:A:MET:HE1	9	0.35
(2,619)	1:118:A:VAL:H	1:120:A:MET:HE2	9	0.35
(2,619)	1:118:A:VAL:H	1:120:A:MET:HE3	9	0.35
(2,351)	1:64:A:VAL:H	1:66:A:TRP:HE1	1	0.35
(1,164)	1:175:A:GLY:H	1:186:A:ALA:O	9	0.35
(1,132)	1:112:A:HIS:NE2	1:196:A:SER:OG	10	0.35
(2,1393)	1:64:A:VAL:CG2	1:122:A:LYS:CA	5	0.34
(2,1197)	1:68:A:VAL:HG11	2:252:B:NLE:HB2	4	0.34
(2,1197)	1:68:A:VAL:HG11	2:252:B:NLE:HB3	4	0.34
(2,1197)	1:68:A:VAL:HG12	2:252:B:NLE:HB2	4	0.34
(2,1197)	1:68:A:VAL:HG12	2:252:B:NLE:HB3	4	0.34
(2,1197)	1:68:A:VAL:HG13	2:252:B:NLE:HB2	4	0.34
(2,1197)	1:68:A:VAL:HG13	2:252:B:NLE:HB3	4	0.34
(2,1197)	1:68:A:VAL:HG21	2:252:B:NLE:HB2	4	0.34
(2,1197)	1:68:A:VAL:HG21	2:252:B:NLE:HB3	4	0.34
(2,1197)	1:68:A:VAL:HG22	2:252:B:NLE:HB2	4	0.34
(2,1197)	1:68:A:VAL:HG22	2:252:B:NLE:HB3	4	0.34
(2,1197)	1:68:A:VAL:HG23	2:252:B:NLE:HB2	4	0.34
(2,1197)	1:68:A:VAL:HG23	2:252:B:NLE:HB3	4	0.34
(2,1113)	1:217:A:THR:HG1	1:220:A:GLY:H	10	0.34
(2,690)	1:130:A:TRP:HE1	1:138:A:ILE:HD11	3	0.34
(2,690)	1:130:A:TRP:HE1	1:138:A:ILE:HD12	3	0.34
(2,690)	1:130:A:TRP:HE1	1:138:A:ILE:HD13	3	0.34
(1,164)	1:175:A:GLY:H	1:186:A:ALA:O	10	0.34
(2,1416)	1:67:A:ASP:CB	1:80:A:GLU:CA	1	0.33
(2,1322)	1:6:A:LEU:HD21	1:88:A:GLN:H	2	0.33
(2,1322)	1:6:A:LEU:HD22	1:88:A:GLN:H	2	0.33
(2,1322)	1:6:A:LEU:HD23	1:88:A:GLN:H	2	0.33
(2,1251)	1:6:A:LEU:H	1:119:A:LEU:HD11	9	0.33
(2,1251)	1:6:A:LEU:H	1:119:A:LEU:HD12	9	0.33
(2,1251)	1:6:A:LEU:H	1:119:A:LEU:HD13	9	0.33
(2,1154)	1:50:A:LEU:HD11	2:251:B:BEZ:H6	3	0.33
(2,1154)	1:50:A:LEU:HD12	2:251:B:BEZ:H6	3	0.33
(2,1154)	1:50:A:LEU:HD13	2:251:B:BEZ:H6	3	0.33
(2,1151)	1:14:A:VAL:HG11	2:251:B:BEZ:H6	3	0.33
(2,1151)	1:14:A:VAL:HG12	2:251:B:BEZ:H6	3	0.33
(2,1151)	1:14:A:VAL:HG13	2:251:B:BEZ:H6	3	0.33
(2,1151)	1:14:A:VAL:HG11	2:251:B:BEZ:H6	10	0.33
(2,1151)	1:14:A:VAL:HG12	2:251:B:BEZ:H6	10	0.33
(2,1151)	1:14:A:VAL:HG13	2:251:B:BEZ:H6	10	0.33
(2,787)	1:150:A:TRP:H	1:208:A:VAL:HG11	5	0.33
(2,787)	1:150:A:TRP:H	1:208:A:VAL:HG12	5	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,787)	1:150:A:TRP:H	1:208:A:VAL:HG13	5	0.33
(2,787)	1:150:A:TRP:H	1:208:A:VAL:HG21	5	0.33
(2,787)	1:150:A:TRP:H	1:208:A:VAL:HG22	5	0.33
(2,787)	1:150:A:TRP:H	1:208:A:VAL:HG23	5	0.33
(2,690)	1:130:A:TRP:HE1	1:138:A:ILE:HD11	8	0.33
(2,690)	1:130:A:TRP:HE1	1:138:A:ILE:HD12	8	0.33
(2,690)	1:130:A:TRP:HE1	1:138:A:ILE:HD13	8	0.33
(2,452)	1:91:A:ILE:HD11	1:95:A:SER:H	3	0.33
(2,452)	1:91:A:ILE:HD12	1:95:A:SER:H	3	0.33
(2,452)	1:91:A:ILE:HD13	1:95:A:SER:H	3	0.33
(2,429)	1:88:A:GLN:H	1:91:A:ILE:HD11	7	0.33
(2,429)	1:88:A:GLN:H	1:91:A:ILE:HD12	7	0.33
(2,429)	1:88:A:GLN:H	1:91:A:ILE:HD13	7	0.33
(2,1398)	1:65:A:LEU:CA	1:122:A:LYS:CD	6	0.32
(2,1342)	1:88:A:GLN:H	1:97:A:ILE:HD11	1	0.32
(2,1342)	1:88:A:GLN:H	1:97:A:ILE:HD12	1	0.32
(2,1342)	1:88:A:GLN:H	1:97:A:ILE:HD13	1	0.32
(2,1322)	1:6:A:LEU:HD21	1:88:A:GLN:H	5	0.32
(2,1322)	1:6:A:LEU:HD22	1:88:A:GLN:H	5	0.32
(2,1322)	1:6:A:LEU:HD23	1:88:A:GLN:H	5	0.32
(2,1322)	1:6:A:LEU:HD21	1:88:A:GLN:H	7	0.32
(2,1322)	1:6:A:LEU:HD22	1:88:A:GLN:H	7	0.32
(2,1322)	1:6:A:LEU:HD23	1:88:A:GLN:H	7	0.32
(2,1255)	1:7:A:GLU:H	1:119:A:LEU:HD21	10	0.32
(2,1255)	1:7:A:GLU:H	1:119:A:LEU:HD22	10	0.32
(2,1255)	1:7:A:GLU:H	1:119:A:LEU:HD23	10	0.32
(2,1189)	1:64:A:VAL:HG11	2:251:B:BEZ:H6	1	0.32
(2,1189)	1:64:A:VAL:HG12	2:251:B:BEZ:H6	1	0.32
(2,1189)	1:64:A:VAL:HG13	2:251:B:BEZ:H6	1	0.32
(2,1189)	1:64:A:VAL:HG21	2:251:B:BEZ:H6	1	0.32
(2,1189)	1:64:A:VAL:HG22	2:251:B:BEZ:H6	1	0.32
(2,1189)	1:64:A:VAL:HG23	2:251:B:BEZ:H6	1	0.32
(2,572)	1:111:A:TRP:HE1	1:130:A:TRP:HE1	1	0.32
(2,351)	1:64:A:VAL:H	1:66:A:TRP:HE1	2	0.32
(2,351)	1:64:A:VAL:H	1:66:A:TRP:HE1	4	0.32
(2,326)	1:48:A:GLN:H	2:253:B:LYS:HD2	8	0.32
(2,326)	1:48:A:GLN:H	2:253:B:LYS:HD3	8	0.32
(2,319)	1:41:A:ILE:HD11	1:219:A:SER:H	4	0.32
(2,319)	1:41:A:ILE:HD12	1:219:A:SER:H	4	0.32
(2,319)	1:41:A:ILE:HD13	1:219:A:SER:H	4	0.32
(2,1370)	1:31:A:ILE:HD11	1:215:A:VAL:HG21	4	0.31
(2,1370)	1:31:A:ILE:HD11	1:215:A:VAL:HG22	4	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1370)	1:31:A:ILE:HD11	1:215:A:VAL:HG23	4	0.31
(2,1370)	1:31:A:ILE:HD12	1:215:A:VAL:HG21	4	0.31
(2,1370)	1:31:A:ILE:HD12	1:215:A:VAL:HG22	4	0.31
(2,1370)	1:31:A:ILE:HD12	1:215:A:VAL:HG23	4	0.31
(2,1370)	1:31:A:ILE:HD13	1:215:A:VAL:HG21	4	0.31
(2,1370)	1:31:A:ILE:HD13	1:215:A:VAL:HG22	4	0.31
(2,1370)	1:31:A:ILE:HD13	1:215:A:VAL:HG23	4	0.31
(2,1343)	1:99:A:ALA:H	1:113:A:VAL:HG11	2	0.31
(2,1343)	1:99:A:ALA:H	1:113:A:VAL:HG12	2	0.31
(2,1343)	1:99:A:ALA:H	1:113:A:VAL:HG13	2	0.31
(2,1342)	1:88:A:GLN:H	1:97:A:ILE:HD11	2	0.31
(2,1342)	1:88:A:GLN:H	1:97:A:ILE:HD12	2	0.31
(2,1342)	1:88:A:GLN:H	1:97:A:ILE:HD13	2	0.31
(2,1322)	1:6:A:LEU:HD21	1:88:A:GLN:H	1	0.31
(2,1322)	1:6:A:LEU:HD22	1:88:A:GLN:H	1	0.31
(2,1322)	1:6:A:LEU:HD23	1:88:A:GLN:H	1	0.31
(2,1249)	1:5:A:ASP:H	1:119:A:LEU:HD21	1	0.31
(2,1249)	1:5:A:ASP:H	1:119:A:LEU:HD22	1	0.31
(2,1249)	1:5:A:ASP:H	1:119:A:LEU:HD23	1	0.31
(2,1196)	1:65:A:LEU:HD11	2:255:B:M9P:HD	4	0.31
(2,1196)	1:65:A:LEU:HD11	2:255:B:M9P:HDA	4	0.31
(2,1196)	1:65:A:LEU:HD12	2:255:B:M9P:HD	4	0.31
(2,1196)	1:65:A:LEU:HD12	2:255:B:M9P:HDA	4	0.31
(2,1196)	1:65:A:LEU:HD13	2:255:B:M9P:HD	4	0.31
(2,1196)	1:65:A:LEU:HD13	2:255:B:M9P:HDA	4	0.31
(2,1196)	1:65:A:LEU:HD21	2:255:B:M9P:HD	4	0.31
(2,1196)	1:65:A:LEU:HD21	2:255:B:M9P:HDA	4	0.31
(2,1196)	1:65:A:LEU:HD22	2:255:B:M9P:HD	4	0.31
(2,1196)	1:65:A:LEU:HD22	2:255:B:M9P:HDA	4	0.31
(2,1196)	1:65:A:LEU:HD23	2:255:B:M9P:HD	4	0.31
(2,1196)	1:65:A:LEU:HD23	2:255:B:M9P:HDA	4	0.31
(2,1196)	1:65:A:LEU:HD11	2:255:B:M9P:HD	5	0.31
(2,1196)	1:65:A:LEU:HD11	2:255:B:M9P:HDA	5	0.31
(2,1196)	1:65:A:LEU:HD12	2:255:B:M9P:HD	5	0.31
(2,1196)	1:65:A:LEU:HD12	2:255:B:M9P:HDA	5	0.31
(2,1196)	1:65:A:LEU:HD13	2:255:B:M9P:HD	5	0.31
(2,1196)	1:65:A:LEU:HD13	2:255:B:M9P:HDA	5	0.31
(2,1196)	1:65:A:LEU:HD21	2:255:B:M9P:HD	5	0.31
(2,1196)	1:65:A:LEU:HD21	2:255:B:M9P:HDA	5	0.31
(2,1196)	1:65:A:LEU:HD22	2:255:B:M9P:HD	5	0.31
(2,1196)	1:65:A:LEU:HD22	2:255:B:M9P:HDA	5	0.31
(2,1196)	1:65:A:LEU:HD23	2:255:B:M9P:HD	5	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1196)	1:65:A:LEU:HD23	2:255:B:M9P:HDA	5	0.31
(2,1178)	1:91:A:ILE:HD11	2:251:B:BEZ:H6	1	0.31
(2,1178)	1:91:A:ILE:HD12	2:251:B:BEZ:H6	1	0.31
(2,1178)	1:91:A:ILE:HD13	2:251:B:BEZ:H6	1	0.31
(2,742)	1:144:A:TRP:HE1	1:147:A:GLU:H	2	0.31
(2,572)	1:111:A:TRP:HE1	1:130:A:TRP:HE1	9	0.31
(2,464)	1:95:A:SER:H	1:97:A:ILE:HD11	1	0.31
(2,464)	1:95:A:SER:H	1:97:A:ILE:HD12	1	0.31
(2,464)	1:95:A:SER:H	1:97:A:ILE:HD13	1	0.31
(2,452)	1:91:A:ILE:HD11	1:95:A:SER:H	9	0.31
(2,452)	1:91:A:ILE:HD12	1:95:A:SER:H	9	0.31
(2,452)	1:91:A:ILE:HD13	1:95:A:SER:H	9	0.31
(2,369)	1:66:A:TRP:HE1	1:67:A:ASP:H	2	0.31
(1,137)	1:8:A:LEU:N	1:120:A:MET:O	6	0.31
(1,33)	1:175:A:GLY:O	1:186:A:ALA:H	9	0.31
(1,3)	1:8:A:LEU:H	1:120:A:MET:O	6	0.31
(2,1377)	1:9:A:GLU:CD	1:51:A:GLY:CA	4	0.3
(2,1190)	1:64:A:VAL:HG11	2:252:B:NLE:HB2	2	0.3
(2,1190)	1:64:A:VAL:HG11	2:252:B:NLE:HB3	2	0.3
(2,1190)	1:64:A:VAL:HG12	2:252:B:NLE:HB2	2	0.3
(2,1190)	1:64:A:VAL:HG12	2:252:B:NLE:HB3	2	0.3
(2,1190)	1:64:A:VAL:HG13	2:252:B:NLE:HB2	2	0.3
(2,1190)	1:64:A:VAL:HG13	2:252:B:NLE:HB3	2	0.3
(2,1190)	1:64:A:VAL:HG21	2:252:B:NLE:HB2	2	0.3
(2,1190)	1:64:A:VAL:HG21	2:252:B:NLE:HB3	2	0.3
(2,1190)	1:64:A:VAL:HG22	2:252:B:NLE:HB2	2	0.3
(2,1190)	1:64:A:VAL:HG22	2:252:B:NLE:HB3	2	0.3
(2,1190)	1:64:A:VAL:HG23	2:252:B:NLE:HB2	2	0.3
(2,1190)	1:64:A:VAL:HG23	2:252:B:NLE:HB3	2	0.3
(2,864)	1:159:A:LEU:HD11	1:162:A:GLU:H	4	0.3
(2,864)	1:159:A:LEU:HD12	1:162:A:GLU:H	4	0.3
(2,864)	1:159:A:LEU:HD13	1:162:A:GLU:H	4	0.3
(2,864)	1:159:A:LEU:HD21	1:162:A:GLU:H	4	0.3
(2,864)	1:159:A:LEU:HD22	1:162:A:GLU:H	4	0.3
(2,864)	1:159:A:LEU:HD23	1:162:A:GLU:H	4	0.3
(2,146)	1:16:A:TRP:HE1	1:170:A:VAL:HG11	10	0.3
(2,146)	1:16:A:TRP:HE1	1:170:A:VAL:HG12	10	0.3
(2,146)	1:16:A:TRP:HE1	1:170:A:VAL:HG13	10	0.3
(2,146)	1:16:A:TRP:HE1	1:170:A:VAL:HG21	10	0.3
(2,146)	1:16:A:TRP:HE1	1:170:A:VAL:HG22	10	0.3
(2,146)	1:16:A:TRP:HE1	1:170:A:VAL:HG23	10	0.3
(1,136)	1:8:A:LEU:H	1:120:A:MET:O	5	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1441)	1:201:A:ILE:CG2	1:205:A:GLY:CA	8	0.29
(2,1398)	1:65:A:LEU:CA	1:122:A:LYS:CD	3	0.29
(2,1397)	1:64:A:VAL:C	1:122:A:LYS:CE	8	0.29
(2,1377)	1:9:A:GLU:CD	1:51:A:GLY:CA	2	0.29
(2,1196)	1:65:A:LEU:HD11	2:255:B:M9P:HD	9	0.29
(2,1196)	1:65:A:LEU:HD11	2:255:B:M9P:HDA	9	0.29
(2,1196)	1:65:A:LEU:HD12	2:255:B:M9P:HD	9	0.29
(2,1196)	1:65:A:LEU:HD12	2:255:B:M9P:HDA	9	0.29
(2,1196)	1:65:A:LEU:HD13	2:255:B:M9P:HD	9	0.29
(2,1196)	1:65:A:LEU:HD13	2:255:B:M9P:HDA	9	0.29
(2,1196)	1:65:A:LEU:HD21	2:255:B:M9P:HD	9	0.29
(2,1196)	1:65:A:LEU:HD21	2:255:B:M9P:HDA	9	0.29
(2,1196)	1:65:A:LEU:HD22	2:255:B:M9P:HD	9	0.29
(2,1196)	1:65:A:LEU:HD22	2:255:B:M9P:HDA	9	0.29
(2,1196)	1:65:A:LEU:HD23	2:255:B:M9P:HD	9	0.29
(2,1196)	1:65:A:LEU:HD23	2:255:B:M9P:HDA	9	0.29
(2,1191)	1:65:A:LEU:HD11	2:251:B:BEZ:H6	8	0.29
(2,1191)	1:65:A:LEU:HD12	2:251:B:BEZ:H6	8	0.29
(2,1191)	1:65:A:LEU:HD13	2:251:B:BEZ:H6	8	0.29
(2,1191)	1:65:A:LEU:HD21	2:251:B:BEZ:H6	8	0.29
(2,1191)	1:65:A:LEU:HD22	2:251:B:BEZ:H6	8	0.29
(2,1191)	1:65:A:LEU:HD23	2:251:B:BEZ:H6	8	0.29
(2,1189)	1:64:A:VAL:HG11	2:251:B:BEZ:H6	9	0.29
(2,1189)	1:64:A:VAL:HG12	2:251:B:BEZ:H6	9	0.29
(2,1189)	1:64:A:VAL:HG13	2:251:B:BEZ:H6	9	0.29
(2,1189)	1:64:A:VAL:HG21	2:251:B:BEZ:H6	9	0.29
(2,1189)	1:64:A:VAL:HG22	2:251:B:BEZ:H6	9	0.29
(2,1189)	1:64:A:VAL:HG23	2:251:B:BEZ:H6	9	0.29
(2,1154)	1:50:A:LEU:HD11	2:251:B:BEZ:H6	8	0.29
(2,1154)	1:50:A:LEU:HD12	2:251:B:BEZ:H6	8	0.29
(2,1154)	1:50:A:LEU:HD13	2:251:B:BEZ:H6	8	0.29
(2,1152)	1:14:A:VAL:HG21	2:251:B:BEZ:H6	2	0.29
(2,1152)	1:14:A:VAL:HG22	2:251:B:BEZ:H6	2	0.29
(2,1152)	1:14:A:VAL:HG23	2:251:B:BEZ:H6	2	0.29
(2,1151)	1:14:A:VAL:HG11	2:251:B:BEZ:H6	6	0.29
(2,1151)	1:14:A:VAL:HG12	2:251:B:BEZ:H6	6	0.29
(2,1151)	1:14:A:VAL:HG13	2:251:B:BEZ:H6	6	0.29
(2,815)	1:156:A:VAL:HG11	1:173:A:LYS:H	2	0.29
(2,815)	1:156:A:VAL:HG12	1:173:A:LYS:H	2	0.29
(2,815)	1:156:A:VAL:HG13	1:173:A:LYS:H	2	0.29
(2,815)	1:156:A:VAL:HG21	1:173:A:LYS:H	2	0.29
(2,815)	1:156:A:VAL:HG22	1:173:A:LYS:H	2	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,815)	1:156:A:VAL:HG23	1:173:A:LYS:H	2	0.29
(2,742)	1:144:A:TRP:HE1	1:147:A:GLU:H	5	0.29
(2,369)	1:66:A:TRP:HE1	1:67:A:ASP:H	7	0.29
(2,366)	1:66:A:TRP:H	1:66:A:TRP:HE1	6	0.29
(1,136)	1:8:A:LEU:H	1:120:A:MET:O	8	0.29
(2,1397)	1:64:A:VAL:C	1:122:A:LYS:CE	9	0.28
(2,1332)	1:176:A:LEU:HD21	1:186:A:ALA:H	5	0.28
(2,1332)	1:176:A:LEU:HD22	1:186:A:ALA:H	5	0.28
(2,1332)	1:176:A:LEU:HD23	1:186:A:ALA:H	5	0.28
(2,1332)	1:176:A:LEU:HD21	1:186:A:ALA:H	10	0.28
(2,1332)	1:176:A:LEU:HD22	1:186:A:ALA:H	10	0.28
(2,1332)	1:176:A:LEU:HD23	1:186:A:ALA:H	10	0.28
(2,1230)	1:109:A:THR:HG1	1:137:A:LEU:HD11	8	0.28
(2,1230)	1:109:A:THR:HG1	1:137:A:LEU:HD12	8	0.28
(2,1230)	1:109:A:THR:HG1	1:137:A:LEU:HD13	8	0.28
(2,1181)	1:109:A:THR:HG1	1:137:A:LEU:HD11	8	0.28
(2,1181)	1:109:A:THR:HG1	1:137:A:LEU:HD12	8	0.28
(2,1181)	1:109:A:THR:HG1	1:137:A:LEU:HD13	8	0.28
(2,1154)	1:50:A:LEU:HD11	2:251:B:BEZ:H6	4	0.28
(2,1154)	1:50:A:LEU:HD12	2:251:B:BEZ:H6	4	0.28
(2,1154)	1:50:A:LEU:HD13	2:251:B:BEZ:H6	4	0.28
(2,1053)	1:206:A:LYS:H	1:208:A:VAL:HG11	8	0.28
(2,1053)	1:206:A:LYS:H	1:208:A:VAL:HG12	8	0.28
(2,1053)	1:206:A:LYS:H	1:208:A:VAL:HG13	8	0.28
(2,1053)	1:206:A:LYS:H	1:208:A:VAL:HG21	8	0.28
(2,1053)	1:206:A:LYS:H	1:208:A:VAL:HG22	8	0.28
(2,1053)	1:206:A:LYS:H	1:208:A:VAL:HG23	8	0.28
(2,741)	1:144:A:TRP:HE1	1:146:A:LEU:HD11	8	0.28
(2,741)	1:144:A:TRP:HE1	1:146:A:LEU:HD12	8	0.28
(2,741)	1:144:A:TRP:HE1	1:146:A:LEU:HD13	8	0.28
(2,741)	1:144:A:TRP:HE1	1:146:A:LEU:HD21	8	0.28
(2,741)	1:144:A:TRP:HE1	1:146:A:LEU:HD22	8	0.28
(2,741)	1:144:A:TRP:HE1	1:146:A:LEU:HD23	8	0.28
(2,456)	1:91:A:ILE:HD11	2:254:B:ARG:HA	7	0.28
(2,456)	1:91:A:ILE:HD12	2:254:B:ARG:HA	7	0.28
(2,456)	1:91:A:ILE:HD13	2:254:B:ARG:HA	7	0.28
(2,369)	1:66:A:TRP:HE1	1:67:A:ASP:H	6	0.28
(2,331)	1:50:A:LEU:H	1:51:A:GLY:H	7	0.28
(2,146)	1:16:A:TRP:HE1	1:170:A:VAL:HG11	1	0.28
(2,146)	1:16:A:TRP:HE1	1:170:A:VAL:HG12	1	0.28
(2,146)	1:16:A:TRP:HE1	1:170:A:VAL:HG13	1	0.28
(2,146)	1:16:A:TRP:HE1	1:170:A:VAL:HG21	1	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,146)	1:16:A:TRP:HE1	1:170:A:VAL:HG22	1	0.28
(2,146)	1:16:A:TRP:HE1	1:170:A:VAL:HG23	1	0.28
(2,1438)	1:159:A:LEU:CD1	1:201:A:ILE:CD1	8	0.27
(2,1348)	1:29:A:LEU:HD21	1:41:A:ILE:HD11	9	0.27
(2,1348)	1:29:A:LEU:HD21	1:41:A:ILE:HD12	9	0.27
(2,1348)	1:29:A:LEU:HD21	1:41:A:ILE:HD13	9	0.27
(2,1348)	1:29:A:LEU:HD22	1:41:A:ILE:HD11	9	0.27
(2,1348)	1:29:A:LEU:HD22	1:41:A:ILE:HD12	9	0.27
(2,1348)	1:29:A:LEU:HD22	1:41:A:ILE:HD13	9	0.27
(2,1348)	1:29:A:LEU:HD23	1:41:A:ILE:HD11	9	0.27
(2,1348)	1:29:A:LEU:HD23	1:41:A:ILE:HD12	9	0.27
(2,1348)	1:29:A:LEU:HD23	1:41:A:ILE:HD13	9	0.27
(2,1345)	1:6:A:LEU:HD21	1:119:A:LEU:HD11	7	0.27
(2,1345)	1:6:A:LEU:HD21	1:119:A:LEU:HD12	7	0.27
(2,1345)	1:6:A:LEU:HD21	1:119:A:LEU:HD13	7	0.27
(2,1345)	1:6:A:LEU:HD22	1:119:A:LEU:HD11	7	0.27
(2,1345)	1:6:A:LEU:HD22	1:119:A:LEU:HD12	7	0.27
(2,1345)	1:6:A:LEU:HD22	1:119:A:LEU:HD13	7	0.27
(2,1345)	1:6:A:LEU:HD23	1:119:A:LEU:HD11	7	0.27
(2,1345)	1:6:A:LEU:HD23	1:119:A:LEU:HD12	7	0.27
(2,1345)	1:6:A:LEU:HD23	1:119:A:LEU:HD13	7	0.27
(2,1310)	1:23:A:SER:H	1:171:A:GLN:H	10	0.27
(2,1294)	1:7:A:GLU:H	1:120:A:MET:HE1	2	0.27
(2,1294)	1:7:A:GLU:H	1:120:A:MET:HE2	2	0.27
(2,1294)	1:7:A:GLU:H	1:120:A:MET:HE3	2	0.27
(2,1266)	1:29:A:LEU:H	1:176:A:LEU:H	10	0.27
(2,1196)	1:65:A:LEU:HD11	2:255:B:M9P:HD	6	0.27
(2,1196)	1:65:A:LEU:HD11	2:255:B:M9P:HDA	6	0.27
(2,1196)	1:65:A:LEU:HD12	2:255:B:M9P:HD	6	0.27
(2,1196)	1:65:A:LEU:HD12	2:255:B:M9P:HDA	6	0.27
(2,1196)	1:65:A:LEU:HD13	2:255:B:M9P:HD	6	0.27
(2,1196)	1:65:A:LEU:HD13	2:255:B:M9P:HDA	6	0.27
(2,1196)	1:65:A:LEU:HD21	2:255:B:M9P:HD	6	0.27
(2,1196)	1:65:A:LEU:HD21	2:255:B:M9P:HDA	6	0.27
(2,1196)	1:65:A:LEU:HD22	2:255:B:M9P:HD	6	0.27
(2,1196)	1:65:A:LEU:HD22	2:255:B:M9P:HDA	6	0.27
(2,1196)	1:65:A:LEU:HD23	2:255:B:M9P:HD	6	0.27
(2,1196)	1:65:A:LEU:HD23	2:255:B:M9P:HDA	6	0.27
(2,1178)	1:91:A:ILE:HD11	2:251:B:BEZ:H6	4	0.27
(2,1178)	1:91:A:ILE:HD12	2:251:B:BEZ:H6	4	0.27
(2,1178)	1:91:A:ILE:HD13	2:251:B:BEZ:H6	4	0.27
(2,619)	1:118:A:VAL:H	1:120:A:MET:HE1	6	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,619)	1:118:A:VAL:H	1:120:A:MET:HE2	6	0.27
(2,619)	1:118:A:VAL:H	1:120:A:MET:HE3	6	0.27
(2,549)	1:110:A:MET:HE1	1:113:A:VAL:H	6	0.27
(2,549)	1:110:A:MET:HE2	1:113:A:VAL:H	6	0.27
(2,549)	1:110:A:MET:HE3	1:113:A:VAL:H	6	0.27
(2,420)	1:86:A:ILE:HD11	1:198:A:SER:H	3	0.27
(2,420)	1:86:A:ILE:HD12	1:198:A:SER:H	3	0.27
(2,420)	1:86:A:ILE:HD13	1:198:A:SER:H	3	0.27
(2,350)	1:64:A:VAL:H	1:66:A:TRP:H	1	0.27
(2,4)	1:3:A:ALA:H	1:114:A:THR:HG1	6	0.27
(1,136)	1:8:A:LEU:H	1:120:A:MET:O	3	0.27
(1,33)	1:175:A:GLY:O	1:186:A:ALA:H	10	0.27
(2,1429)	1:79:A:LEU:C	1:102:A:TYR:CD2	6	0.26
(2,1427)	1:68:A:VAL:CB	1:78:A:GLU:CD	7	0.26
(2,1416)	1:67:A:ASP:CB	1:80:A:GLU:CA	8	0.26
(2,1393)	1:64:A:VAL:CG2	1:122:A:LYS:CA	7	0.26
(2,1393)	1:64:A:VAL:CG2	1:122:A:LYS:CA	10	0.26
(2,1383)	1:32:A:THR:CG2	1:42:A:LYS:CB	2	0.26
(2,1343)	1:99:A:ALA:H	1:113:A:VAL:HG11	5	0.26
(2,1343)	1:99:A:ALA:H	1:113:A:VAL:HG12	5	0.26
(2,1343)	1:99:A:ALA:H	1:113:A:VAL:HG13	5	0.26
(2,1343)	1:99:A:ALA:H	1:113:A:VAL:HG11	10	0.26
(2,1343)	1:99:A:ALA:H	1:113:A:VAL:HG12	10	0.26
(2,1343)	1:99:A:ALA:H	1:113:A:VAL:HG13	10	0.26
(2,1342)	1:88:A:GLN:H	1:97:A:ILE:HD11	9	0.26
(2,1342)	1:88:A:GLN:H	1:97:A:ILE:HD12	9	0.26
(2,1342)	1:88:A:GLN:H	1:97:A:ILE:HD13	9	0.26
(2,1322)	1:6:A:LEU:HD21	1:88:A:GLN:H	6	0.26
(2,1322)	1:6:A:LEU:HD22	1:88:A:GLN:H	6	0.26
(2,1322)	1:6:A:LEU:HD23	1:88:A:GLN:H	6	0.26
(2,1291)	1:4:A:ALA:H	1:118:A:VAL:HG21	2	0.26
(2,1291)	1:4:A:ALA:H	1:118:A:VAL:HG22	2	0.26
(2,1291)	1:4:A:ALA:H	1:118:A:VAL:HG23	2	0.26
(2,1286)	1:212:A:GLY:H	1:225:A:ALA:H	10	0.26
(2,1255)	1:7:A:GLU:H	1:119:A:LEU:HD21	8	0.26
(2,1255)	1:7:A:GLU:H	1:119:A:LEU:HD22	8	0.26
(2,1255)	1:7:A:GLU:H	1:119:A:LEU:HD23	8	0.26
(2,1249)	1:5:A:ASP:H	1:119:A:LEU:HD21	8	0.26
(2,1249)	1:5:A:ASP:H	1:119:A:LEU:HD22	8	0.26
(2,1249)	1:5:A:ASP:H	1:119:A:LEU:HD23	8	0.26
(2,1180)	1:118:A:VAL:HG21	2:251:B:BEZ:H4	8	0.26
(2,1180)	1:118:A:VAL:HG22	2:251:B:BEZ:H4	8	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1180)	1:118:A:VAL:HG23	2:251:B:BEZ:H4	8	0.26
(2,1179)	1:118:A:VAL:HG11	2:251:B:BEZ:H4	7	0.26
(2,1179)	1:118:A:VAL:HG12	2:251:B:BEZ:H4	7	0.26
(2,1179)	1:118:A:VAL:HG13	2:251:B:BEZ:H4	7	0.26
(2,1154)	1:50:A:LEU:HD11	2:251:B:BEZ:H6	2	0.26
(2,1154)	1:50:A:LEU:HD12	2:251:B:BEZ:H6	2	0.26
(2,1154)	1:50:A:LEU:HD13	2:251:B:BEZ:H6	2	0.26
(2,1151)	1:14:A:VAL:HG11	2:251:B:BEZ:H6	8	0.26
(2,1151)	1:14:A:VAL:HG12	2:251:B:BEZ:H6	8	0.26
(2,1151)	1:14:A:VAL:HG13	2:251:B:BEZ:H6	8	0.26
(2,1125)	1:224:A:SER:H	1:226:A:ILE:H	8	0.26
(2,1113)	1:217:A:THR:HG1	1:220:A:GLY:H	4	0.26
(2,760)	1:146:A:LEU:HD11	1:208:A:VAL:H	8	0.26
(2,760)	1:146:A:LEU:HD12	1:208:A:VAL:H	8	0.26
(2,760)	1:146:A:LEU:HD13	1:208:A:VAL:H	8	0.26
(2,760)	1:146:A:LEU:HD21	1:208:A:VAL:H	8	0.26
(2,760)	1:146:A:LEU:HD22	1:208:A:VAL:H	8	0.26
(2,760)	1:146:A:LEU:HD23	1:208:A:VAL:H	8	0.26
(2,689)	1:130:A:TRP:HE1	1:133:A:VAL:HG11	8	0.26
(2,689)	1:130:A:TRP:HE1	1:133:A:VAL:HG12	8	0.26
(2,689)	1:130:A:TRP:HE1	1:133:A:VAL:HG13	8	0.26
(2,689)	1:130:A:TRP:HE1	1:133:A:VAL:HG21	8	0.26
(2,689)	1:130:A:TRP:HE1	1:133:A:VAL:HG22	8	0.26
(2,689)	1:130:A:TRP:HE1	1:133:A:VAL:HG23	8	0.26
(2,480)	1:98:A:GLY:H	2:251:B:BEZ:H6	5	0.26
(2,370)	1:66:A:TRP:HE1	1:68:A:VAL:HG11	4	0.26
(2,370)	1:66:A:TRP:HE1	1:68:A:VAL:HG12	4	0.26
(2,370)	1:66:A:TRP:HE1	1:68:A:VAL:HG13	4	0.26
(2,370)	1:66:A:TRP:HE1	1:68:A:VAL:HG21	4	0.26
(2,370)	1:66:A:TRP:HE1	1:68:A:VAL:HG22	4	0.26
(2,370)	1:66:A:TRP:HE1	1:68:A:VAL:HG23	4	0.26
(2,369)	1:66:A:TRP:HE1	1:67:A:ASP:H	9	0.26
(2,339)	1:51:A:GLY:H	1:161:A:LEU:HD11	8	0.26
(2,339)	1:51:A:GLY:H	1:161:A:LEU:HD12	8	0.26
(2,339)	1:51:A:GLY:H	1:161:A:LEU:HD13	8	0.26
(2,339)	1:51:A:GLY:H	1:161:A:LEU:HD21	8	0.26
(2,339)	1:51:A:GLY:H	1:161:A:LEU:HD22	8	0.26
(2,339)	1:51:A:GLY:H	1:161:A:LEU:HD23	8	0.26
(1,136)	1:8:A:LEU:H	1:120:A:MET:O	1	0.26
(1,136)	1:8:A:LEU:H	1:120:A:MET:O	10	0.26
(1,31)	1:175:A:GLY:H	1:186:A:ALA:O	9	0.26
(2,1425)	1:67:A:ASP:C	1:80:A:GLU:CD	7	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1408)	1:66:A:TRP:CD1	1:122:A:LYS:CG	6	0.25
(2,1398)	1:65:A:LEU:CA	1:122:A:LYS:CD	4	0.25
(2,1377)	1:9:A:GLU:CD	1:51:A:GLY:CA	6	0.25
(2,1322)	1:6:A:LEU:HD21	1:88:A:GLN:H	10	0.25
(2,1322)	1:6:A:LEU:HD22	1:88:A:GLN:H	10	0.25
(2,1322)	1:6:A:LEU:HD23	1:88:A:GLN:H	10	0.25
(2,1286)	1:212:A:GLY:H	1:225:A:ALA:H	6	0.25
(2,1189)	1:64:A:VAL:HG11	2:251:B:BEZ:H6	8	0.25
(2,1189)	1:64:A:VAL:HG12	2:251:B:BEZ:H6	8	0.25
(2,1189)	1:64:A:VAL:HG13	2:251:B:BEZ:H6	8	0.25
(2,1189)	1:64:A:VAL:HG21	2:251:B:BEZ:H6	8	0.25
(2,1189)	1:64:A:VAL:HG22	2:251:B:BEZ:H6	8	0.25
(2,1189)	1:64:A:VAL:HG23	2:251:B:BEZ:H6	8	0.25
(2,1151)	1:14:A:VAL:HG11	2:251:B:BEZ:H6	7	0.25
(2,1151)	1:14:A:VAL:HG12	2:251:B:BEZ:H6	7	0.25
(2,1151)	1:14:A:VAL:HG13	2:251:B:BEZ:H6	7	0.25
(2,810)	1:156:A:VAL:H	1:226:A:ILE:HD11	1	0.25
(2,810)	1:156:A:VAL:H	1:226:A:ILE:HD12	1	0.25
(2,810)	1:156:A:VAL:H	1:226:A:ILE:HD13	1	0.25
(2,777)	1:149:A:GLU:H	1:207:A:VAL:H	8	0.25
(2,764)	1:146:A:LEU:HD11	1:231:A:LYS:H	8	0.25
(2,764)	1:146:A:LEU:HD12	1:231:A:LYS:H	8	0.25
(2,764)	1:146:A:LEU:HD13	1:231:A:LYS:H	8	0.25
(2,764)	1:146:A:LEU:HD21	1:231:A:LYS:H	8	0.25
(2,764)	1:146:A:LEU:HD22	1:231:A:LYS:H	8	0.25
(2,764)	1:146:A:LEU:HD23	1:231:A:LYS:H	8	0.25
(2,351)	1:64:A:VAL:H	1:66:A:TRP:HE1	3	0.25
(2,338)	1:50:A:LEU:HD11	2:255:B:M9P:HG	7	0.25
(2,338)	1:50:A:LEU:HD11	2:255:B:M9P:HGA	7	0.25
(2,338)	1:50:A:LEU:HD12	2:255:B:M9P:HG	7	0.25
(2,338)	1:50:A:LEU:HD12	2:255:B:M9P:HGA	7	0.25
(2,338)	1:50:A:LEU:HD13	2:255:B:M9P:HG	7	0.25
(2,338)	1:50:A:LEU:HD13	2:255:B:M9P:HGA	7	0.25
(2,338)	1:50:A:LEU:HD21	2:255:B:M9P:HG	7	0.25
(2,338)	1:50:A:LEU:HD21	2:255:B:M9P:HGA	7	0.25
(2,338)	1:50:A:LEU:HD22	2:255:B:M9P:HG	7	0.25
(2,338)	1:50:A:LEU:HD22	2:255:B:M9P:HGA	7	0.25
(2,338)	1:50:A:LEU:HD23	2:255:B:M9P:HG	7	0.25
(2,338)	1:50:A:LEU:HD23	2:255:B:M9P:HGA	7	0.25
(2,142)	1:16:A:TRP:HE1	1:18:A:ASP:H	10	0.25
(1,165)	1:175:A:GLY:N	1:186:A:ALA:O	9	0.25
(1,31)	1:175:A:GLY:H	1:186:A:ALA:O	10	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1401)	1:65:A:LEU:C	1:122:A:LYS:CE	1	0.24
(2,1332)	1:176:A:LEU:HD21	1:186:A:ALA:H	2	0.24
(2,1332)	1:176:A:LEU:HD22	1:186:A:ALA:H	2	0.24
(2,1332)	1:176:A:LEU:HD23	1:186:A:ALA:H	2	0.24
(2,1314)	1:24:A:GLY:H	1:189:A:LEU:HD21	1	0.24
(2,1314)	1:24:A:GLY:H	1:189:A:LEU:HD22	1	0.24
(2,1314)	1:24:A:GLY:H	1:189:A:LEU:HD23	1	0.24
(2,1314)	1:24:A:GLY:H	1:189:A:LEU:HD21	7	0.24
(2,1314)	1:24:A:GLY:H	1:189:A:LEU:HD22	7	0.24
(2,1314)	1:24:A:GLY:H	1:189:A:LEU:HD23	7	0.24
(2,1294)	1:7:A:GLU:H	1:120:A:MET:HE1	1	0.24
(2,1294)	1:7:A:GLU:H	1:120:A:MET:HE2	1	0.24
(2,1294)	1:7:A:GLU:H	1:120:A:MET:HE3	1	0.24
(2,1280)	1:189:A:LEU:H	1:224:A:SER:H	10	0.24
(2,1205)	1:101:A:VAL:HG11	2:251:B:BEZ:H6	7	0.24
(2,1205)	1:101:A:VAL:HG12	2:251:B:BEZ:H6	7	0.24
(2,1205)	1:101:A:VAL:HG13	2:251:B:BEZ:H6	7	0.24
(2,1205)	1:101:A:VAL:HG21	2:251:B:BEZ:H6	7	0.24
(2,1205)	1:101:A:VAL:HG22	2:251:B:BEZ:H6	7	0.24
(2,1205)	1:101:A:VAL:HG23	2:251:B:BEZ:H6	7	0.24
(2,1195)	1:65:A:LEU:HD11	2:253:B:LYS:HE2	5	0.24
(2,1195)	1:65:A:LEU:HD11	2:253:B:LYS:HE3	5	0.24
(2,1195)	1:65:A:LEU:HD12	2:253:B:LYS:HE2	5	0.24
(2,1195)	1:65:A:LEU:HD12	2:253:B:LYS:HE3	5	0.24
(2,1195)	1:65:A:LEU:HD13	2:253:B:LYS:HE2	5	0.24
(2,1195)	1:65:A:LEU:HD13	2:253:B:LYS:HE3	5	0.24
(2,1195)	1:65:A:LEU:HD21	2:253:B:LYS:HE2	5	0.24
(2,1195)	1:65:A:LEU:HD21	2:253:B:LYS:HE3	5	0.24
(2,1195)	1:65:A:LEU:HD22	2:253:B:LYS:HE2	5	0.24
(2,1195)	1:65:A:LEU:HD22	2:253:B:LYS:HE3	5	0.24
(2,1195)	1:65:A:LEU:HD23	2:253:B:LYS:HE2	5	0.24
(2,1195)	1:65:A:LEU:HD23	2:253:B:LYS:HE3	5	0.24
(2,1179)	1:118:A:VAL:HG11	2:251:B:BEZ:H4	6	0.24
(2,1179)	1:118:A:VAL:HG12	2:251:B:BEZ:H4	6	0.24
(2,1179)	1:118:A:VAL:HG13	2:251:B:BEZ:H4	6	0.24
(2,1178)	1:91:A:ILE:HD11	2:251:B:BEZ:H6	2	0.24
(2,1178)	1:91:A:ILE:HD12	2:251:B:BEZ:H6	2	0.24
(2,1178)	1:91:A:ILE:HD13	2:251:B:BEZ:H6	2	0.24
(2,886)	1:165:A:LYS:H	1:166:A:ASN:HD21	9	0.24
(2,886)	1:165:A:LYS:H	1:166:A:ASN:HD22	9	0.24
(2,796)	1:150:A:TRP:HE1	1:200:A:ILE:HD11	8	0.24
(2,796)	1:150:A:TRP:HE1	1:200:A:ILE:HD12	8	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,796)	1:150:A:TRP:HE1	1:200:A:ILE:HD13	8	0.24
(2,786)	1:150:A:TRP:H	1:207:A:VAL:HG11	7	0.24
(2,786)	1:150:A:TRP:H	1:207:A:VAL:HG12	7	0.24
(2,786)	1:150:A:TRP:H	1:207:A:VAL:HG13	7	0.24
(2,786)	1:150:A:TRP:H	1:207:A:VAL:HG21	7	0.24
(2,786)	1:150:A:TRP:H	1:207:A:VAL:HG22	7	0.24
(2,786)	1:150:A:TRP:H	1:207:A:VAL:HG23	7	0.24
(2,768)	1:147:A:GLU:H	1:231:A:LYS:H	9	0.24
(2,690)	1:130:A:TRP:HE1	1:138:A:ILE:HD11	4	0.24
(2,690)	1:130:A:TRP:HE1	1:138:A:ILE:HD12	4	0.24
(2,690)	1:130:A:TRP:HE1	1:138:A:ILE:HD13	4	0.24
(2,689)	1:130:A:TRP:HE1	1:133:A:VAL:HG11	7	0.24
(2,689)	1:130:A:TRP:HE1	1:133:A:VAL:HG12	7	0.24
(2,689)	1:130:A:TRP:HE1	1:133:A:VAL:HG13	7	0.24
(2,689)	1:130:A:TRP:HE1	1:133:A:VAL:HG21	7	0.24
(2,689)	1:130:A:TRP:HE1	1:133:A:VAL:HG22	7	0.24
(2,689)	1:130:A:TRP:HE1	1:133:A:VAL:HG23	7	0.24
(2,666)	1:120:A:MET:HE1	1:126:A:ILE:HD11	6	0.24
(2,666)	1:120:A:MET:HE1	1:126:A:ILE:HD12	6	0.24
(2,666)	1:120:A:MET:HE1	1:126:A:ILE:HD13	6	0.24
(2,666)	1:120:A:MET:HE2	1:126:A:ILE:HD11	6	0.24
(2,666)	1:120:A:MET:HE2	1:126:A:ILE:HD12	6	0.24
(2,666)	1:120:A:MET:HE2	1:126:A:ILE:HD13	6	0.24
(2,666)	1:120:A:MET:HE3	1:126:A:ILE:HD11	6	0.24
(2,666)	1:120:A:MET:HE3	1:126:A:ILE:HD12	6	0.24
(2,666)	1:120:A:MET:HE3	1:126:A:ILE:HD13	6	0.24
(2,572)	1:111:A:TRP:HE1	1:130:A:TRP:HE1	3	0.24
(2,439)	1:89:A:LYS:H	1:120:A:MET:HE1	7	0.24
(2,439)	1:89:A:LYS:H	1:120:A:MET:HE2	7	0.24
(2,439)	1:89:A:LYS:H	1:120:A:MET:HE3	7	0.24
(2,425)	1:87:A:LYS:H	1:97:A:ILE:HD11	1	0.24
(2,425)	1:87:A:LYS:H	1:97:A:ILE:HD12	1	0.24
(2,425)	1:87:A:LYS:H	1:97:A:ILE:HD13	1	0.24
(2,331)	1:50:A:LEU:H	1:51:A:GLY:H	8	0.24
(2,329)	1:49:A:THR:H	1:51:A:GLY:H	8	0.24
(2,312)	1:41:A:ILE:H	1:215:A:VAL:HG11	4	0.24
(2,312)	1:41:A:ILE:H	1:215:A:VAL:HG12	4	0.24
(2,312)	1:41:A:ILE:H	1:215:A:VAL:HG13	4	0.24
(2,312)	1:41:A:ILE:H	1:215:A:VAL:HG21	4	0.24
(2,312)	1:41:A:ILE:H	1:215:A:VAL:HG22	4	0.24
(2,312)	1:41:A:ILE:H	1:215:A:VAL:HG23	4	0.24
(2,6)	1:4:A:ALA:H	1:5:A:ASP:H	6	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,165)	1:175:A:GLY:N	1:186:A:ALA:O	10	0.24
(1,142)	1:34:A:SER:O	1:38:A:SER:H	6	0.24
(1,136)	1:8:A:LEU:H	1:120:A:MET:O	4	0.24
(2,1438)	1:159:A:LEU:CD1	1:201:A:ILE:CD1	4	0.23
(2,1391)	1:64:A:VAL:CB	1:122:A:LYS:CD	6	0.23
(2,1383)	1:32:A:THR:CG2	1:42:A:LYS:CB	4	0.23
(2,1342)	1:88:A:GLN:H	1:97:A:ILE:HD11	10	0.23
(2,1342)	1:88:A:GLN:H	1:97:A:ILE:HD12	10	0.23
(2,1342)	1:88:A:GLN:H	1:97:A:ILE:HD13	10	0.23
(2,1244)	1:4:A:ALA:H	1:88:A:GLN:HE22	10	0.23
(2,1229)	1:97:A:ILE:HD11	1:109:A:THR:HG1	7	0.23
(2,1229)	1:97:A:ILE:HD12	1:109:A:THR:HG1	7	0.23
(2,1229)	1:97:A:ILE:HD13	1:109:A:THR:HG1	7	0.23
(2,1197)	1:68:A:VAL:HG11	2:252:B:NLE:HB2	3	0.23
(2,1197)	1:68:A:VAL:HG11	2:252:B:NLE:HB3	3	0.23
(2,1197)	1:68:A:VAL:HG12	2:252:B:NLE:HB2	3	0.23
(2,1197)	1:68:A:VAL:HG12	2:252:B:NLE:HB3	3	0.23
(2,1197)	1:68:A:VAL:HG13	2:252:B:NLE:HB2	3	0.23
(2,1197)	1:68:A:VAL:HG13	2:252:B:NLE:HB3	3	0.23
(2,1197)	1:68:A:VAL:HG21	2:252:B:NLE:HB2	3	0.23
(2,1197)	1:68:A:VAL:HG21	2:252:B:NLE:HB3	3	0.23
(2,1197)	1:68:A:VAL:HG22	2:252:B:NLE:HB2	3	0.23
(2,1197)	1:68:A:VAL:HG22	2:252:B:NLE:HB3	3	0.23
(2,1197)	1:68:A:VAL:HG23	2:252:B:NLE:HB2	3	0.23
(2,1197)	1:68:A:VAL:HG23	2:252:B:NLE:HB3	3	0.23
(2,1180)	1:118:A:VAL:HG21	2:251:B:BEZ:H4	3	0.23
(2,1180)	1:118:A:VAL:HG22	2:251:B:BEZ:H4	3	0.23
(2,1180)	1:118:A:VAL:HG23	2:251:B:BEZ:H4	3	0.23
(2,1176)	1:97:A:ILE:HD11	1:109:A:THR:HG1	7	0.23
(2,1176)	1:97:A:ILE:HD12	1:109:A:THR:HG1	7	0.23
(2,1176)	1:97:A:ILE:HD13	1:109:A:THR:HG1	7	0.23
(2,1151)	1:14:A:VAL:HG11	2:251:B:BEZ:H6	1	0.23
(2,1151)	1:14:A:VAL:HG12	2:251:B:BEZ:H6	1	0.23
(2,1151)	1:14:A:VAL:HG13	2:251:B:BEZ:H6	1	0.23
(2,1140)	1:233:A:ILE:HD11	1:235:A:ASP:H	8	0.23
(2,1140)	1:233:A:ILE:HD12	1:235:A:ASP:H	8	0.23
(2,1140)	1:233:A:ILE:HD13	1:235:A:ASP:H	8	0.23
(2,742)	1:144:A:TRP:HE1	1:147:A:GLU:H	8	0.23
(2,572)	1:111:A:TRP:HE1	1:130:A:TRP:HE1	2	0.23
(2,471)	1:97:A:ILE:HD11	1:114:A:THR:HG1	6	0.23
(2,471)	1:97:A:ILE:HD12	1:114:A:THR:HG1	6	0.23
(2,471)	1:97:A:ILE:HD13	1:114:A:THR:HG1	6	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,351)	1:64:A:VAL:H	1:66:A:TRP:HE1	7	0.23
(1,240)	1:200:A:ILE:O	1:208:A:VAL:H	1	0.23
(1,136)	1:8:A:LEU:H	1:120:A:MET:O	9	0.23
(2,1425)	1:67:A:ASP:C	1:80:A:GLU:CD	10	0.22
(2,1351)	1:33:A:ILE:HD11	1:39:A:MET:HE1	4	0.22
(2,1351)	1:33:A:ILE:HD11	1:39:A:MET:HE2	4	0.22
(2,1351)	1:33:A:ILE:HD11	1:39:A:MET:HE3	4	0.22
(2,1351)	1:33:A:ILE:HD12	1:39:A:MET:HE1	4	0.22
(2,1351)	1:33:A:ILE:HD12	1:39:A:MET:HE2	4	0.22
(2,1351)	1:33:A:ILE:HD12	1:39:A:MET:HE3	4	0.22
(2,1351)	1:33:A:ILE:HD13	1:39:A:MET:HE1	4	0.22
(2,1351)	1:33:A:ILE:HD13	1:39:A:MET:HE2	4	0.22
(2,1351)	1:33:A:ILE:HD13	1:39:A:MET:HE3	4	0.22
(2,1348)	1:29:A:LEU:HD21	1:41:A:ILE:HD11	1	0.22
(2,1348)	1:29:A:LEU:HD21	1:41:A:ILE:HD12	1	0.22
(2,1348)	1:29:A:LEU:HD21	1:41:A:ILE:HD13	1	0.22
(2,1348)	1:29:A:LEU:HD22	1:41:A:ILE:HD11	1	0.22
(2,1348)	1:29:A:LEU:HD22	1:41:A:ILE:HD12	1	0.22
(2,1348)	1:29:A:LEU:HD22	1:41:A:ILE:HD13	1	0.22
(2,1348)	1:29:A:LEU:HD23	1:41:A:ILE:HD11	1	0.22
(2,1348)	1:29:A:LEU:HD23	1:41:A:ILE:HD12	1	0.22
(2,1348)	1:29:A:LEU:HD23	1:41:A:ILE:HD13	1	0.22
(2,1305)	1:13:A:ASP:H	1:161:A:LEU:HD21	9	0.22
(2,1305)	1:13:A:ASP:H	1:161:A:LEU:HD22	9	0.22
(2,1305)	1:13:A:ASP:H	1:161:A:LEU:HD23	9	0.22
(2,1280)	1:189:A:LEU:H	1:224:A:SER:H	6	0.22
(2,1246)	1:4:A:ALA:H	1:118:A:VAL:HG11	4	0.22
(2,1246)	1:4:A:ALA:H	1:118:A:VAL:HG12	4	0.22
(2,1246)	1:4:A:ALA:H	1:118:A:VAL:HG13	4	0.22
(2,1174)	1:50:A:LEU:HD21	2:251:B:BEZ:H5	1	0.22
(2,1174)	1:50:A:LEU:HD22	2:251:B:BEZ:H5	1	0.22
(2,1174)	1:50:A:LEU:HD23	2:251:B:BEZ:H5	1	0.22
(2,1152)	1:14:A:VAL:HG21	2:251:B:BEZ:H6	9	0.22
(2,1152)	1:14:A:VAL:HG22	2:251:B:BEZ:H6	9	0.22
(2,1152)	1:14:A:VAL:HG23	2:251:B:BEZ:H6	9	0.22
(2,1151)	1:14:A:VAL:HG11	2:251:B:BEZ:H6	4	0.22
(2,1151)	1:14:A:VAL:HG12	2:251:B:BEZ:H6	4	0.22
(2,1151)	1:14:A:VAL:HG13	2:251:B:BEZ:H6	4	0.22
(2,1151)	1:14:A:VAL:HG11	2:251:B:BEZ:H6	5	0.22
(2,1151)	1:14:A:VAL:HG12	2:251:B:BEZ:H6	5	0.22
(2,1151)	1:14:A:VAL:HG13	2:251:B:BEZ:H6	5	0.22
(2,1085)	1:214:A:GLY:H	1:224:A:SER:H	4	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,930)	1:178:A:LYS:H	1:184:A:ILE:HD11	1	0.22
(2,930)	1:178:A:LYS:H	1:184:A:ILE:HD12	1	0.22
(2,930)	1:178:A:LYS:H	1:184:A:ILE:HD13	1	0.22
(2,821)	1:156:A:VAL:HG11	1:203:A:LYS:H	8	0.22
(2,821)	1:156:A:VAL:HG12	1:203:A:LYS:H	8	0.22
(2,821)	1:156:A:VAL:HG13	1:203:A:LYS:H	8	0.22
(2,821)	1:156:A:VAL:HG21	1:203:A:LYS:H	8	0.22
(2,821)	1:156:A:VAL:HG22	1:203:A:LYS:H	8	0.22
(2,821)	1:156:A:VAL:HG23	1:203:A:LYS:H	8	0.22
(2,742)	1:144:A:TRP:HE1	1:147:A:GLU:H	7	0.22
(2,661)	1:120:A:MET:HE1	1:122:A:LYS:H	7	0.22
(2,661)	1:120:A:MET:HE2	1:122:A:LYS:H	7	0.22
(2,661)	1:120:A:MET:HE3	1:122:A:LYS:H	7	0.22
(2,619)	1:118:A:VAL:H	1:120:A:MET:HE1	3	0.22
(2,619)	1:118:A:VAL:H	1:120:A:MET:HE2	3	0.22
(2,619)	1:118:A:VAL:H	1:120:A:MET:HE3	3	0.22
(2,601)	1:114:A:THR:HG1	1:119:A:LEU:HD11	4	0.22
(2,601)	1:114:A:THR:HG1	1:119:A:LEU:HD12	4	0.22
(2,601)	1:114:A:THR:HG1	1:119:A:LEU:HD13	4	0.22
(2,601)	1:114:A:THR:HG1	1:119:A:LEU:HD21	4	0.22
(2,601)	1:114:A:THR:HG1	1:119:A:LEU:HD22	4	0.22
(2,601)	1:114:A:THR:HG1	1:119:A:LEU:HD23	4	0.22
(2,572)	1:111:A:TRP:HE1	1:130:A:TRP:HE1	6	0.22
(2,572)	1:111:A:TRP:HE1	1:130:A:TRP:HE1	7	0.22
(2,555)	1:110:A:MET:HE1	1:198:A:SER:H	3	0.22
(2,555)	1:110:A:MET:HE2	1:198:A:SER:H	3	0.22
(2,555)	1:110:A:MET:HE3	1:198:A:SER:H	3	0.22
(2,452)	1:91:A:ILE:HD11	1:95:A:SER:H	1	0.22
(2,452)	1:91:A:ILE:HD12	1:95:A:SER:H	1	0.22
(2,452)	1:91:A:ILE:HD13	1:95:A:SER:H	1	0.22
(2,312)	1:41:A:ILE:H	1:215:A:VAL:HG11	7	0.22
(2,312)	1:41:A:ILE:H	1:215:A:VAL:HG12	7	0.22
(2,312)	1:41:A:ILE:H	1:215:A:VAL:HG13	7	0.22
(2,312)	1:41:A:ILE:H	1:215:A:VAL:HG21	7	0.22
(2,312)	1:41:A:ILE:H	1:215:A:VAL:HG22	7	0.22
(2,312)	1:41:A:ILE:H	1:215:A:VAL:HG23	7	0.22
(2,146)	1:16:A:TRP:HE1	1:170:A:VAL:HG11	3	0.22
(2,146)	1:16:A:TRP:HE1	1:170:A:VAL:HG12	3	0.22
(2,146)	1:16:A:TRP:HE1	1:170:A:VAL:HG13	3	0.22
(2,146)	1:16:A:TRP:HE1	1:170:A:VAL:HG21	3	0.22
(2,146)	1:16:A:TRP:HE1	1:170:A:VAL:HG22	3	0.22
(2,146)	1:16:A:TRP:HE1	1:170:A:VAL:HG23	3	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,137)	1:8:A:LEU:N	1:120:A:MET:O	5	0.22
(1,136)	1:8:A:LEU:H	1:120:A:MET:O	2	0.22
(1,136)	1:8:A:LEU:H	1:120:A:MET:O	7	0.22
(2,1398)	1:65:A:LEU:CA	1:122:A:LYS:CD	10	0.21
(2,1383)	1:32:A:THR:CG2	1:42:A:LYS:CB	3	0.21
(2,1349)	1:31:A:ILE:HD11	1:184:A:ILE:HD11	3	0.21
(2,1349)	1:31:A:ILE:HD11	1:184:A:ILE:HD12	3	0.21
(2,1349)	1:31:A:ILE:HD11	1:184:A:ILE:HD13	3	0.21
(2,1349)	1:31:A:ILE:HD12	1:184:A:ILE:HD11	3	0.21
(2,1349)	1:31:A:ILE:HD12	1:184:A:ILE:HD12	3	0.21
(2,1349)	1:31:A:ILE:HD12	1:184:A:ILE:HD13	3	0.21
(2,1349)	1:31:A:ILE:HD13	1:184:A:ILE:HD11	3	0.21
(2,1349)	1:31:A:ILE:HD13	1:184:A:ILE:HD12	3	0.21
(2,1349)	1:31:A:ILE:HD13	1:184:A:ILE:HD13	3	0.21
(2,1266)	1:29:A:LEU:H	1:176:A:LEU:H	5	0.21
(2,1256)	1:7:A:GLU:H	1:119:A:LEU:HD11	4	0.21
(2,1256)	1:7:A:GLU:H	1:119:A:LEU:HD12	4	0.21
(2,1256)	1:7:A:GLU:H	1:119:A:LEU:HD13	4	0.21
(2,1179)	1:118:A:VAL:HG11	2:251:B:BEZ:H4	3	0.21
(2,1179)	1:118:A:VAL:HG12	2:251:B:BEZ:H4	3	0.21
(2,1179)	1:118:A:VAL:HG13	2:251:B:BEZ:H4	3	0.21
(2,1179)	1:118:A:VAL:HG11	2:251:B:BEZ:H4	4	0.21
(2,1179)	1:118:A:VAL:HG12	2:251:B:BEZ:H4	4	0.21
(2,1179)	1:118:A:VAL:HG13	2:251:B:BEZ:H4	4	0.21
(2,1179)	1:118:A:VAL:HG11	2:251:B:BEZ:H4	10	0.21
(2,1179)	1:118:A:VAL:HG12	2:251:B:BEZ:H4	10	0.21
(2,1179)	1:118:A:VAL:HG13	2:251:B:BEZ:H4	10	0.21
(2,1154)	1:50:A:LEU:HD11	2:251:B:BEZ:H6	5	0.21
(2,1154)	1:50:A:LEU:HD12	2:251:B:BEZ:H6	5	0.21
(2,1154)	1:50:A:LEU:HD13	2:251:B:BEZ:H6	5	0.21
(2,1085)	1:214:A:GLY:H	1:224:A:SER:H	6	0.21
(2,1027)	1:200:A:ILE:HD11	1:228:A:GLN:H	9	0.21
(2,1027)	1:200:A:ILE:HD12	1:228:A:GLN:H	9	0.21
(2,1027)	1:200:A:ILE:HD13	1:228:A:GLN:H	9	0.21
(2,786)	1:150:A:TRP:H	1:207:A:VAL:HG11	6	0.21
(2,786)	1:150:A:TRP:H	1:207:A:VAL:HG12	6	0.21
(2,786)	1:150:A:TRP:H	1:207:A:VAL:HG13	6	0.21
(2,786)	1:150:A:TRP:H	1:207:A:VAL:HG21	6	0.21
(2,786)	1:150:A:TRP:H	1:207:A:VAL:HG22	6	0.21
(2,786)	1:150:A:TRP:H	1:207:A:VAL:HG23	6	0.21
(2,690)	1:130:A:TRP:HE1	1:138:A:ILE:HD11	6	0.21
(2,690)	1:130:A:TRP:HE1	1:138:A:ILE:HD12	6	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,690)	1:130:A:TRP:HE1	1:138:A:ILE:HD13	6	0.21
(2,572)	1:111:A:TRP:HE1	1:130:A:TRP:HE1	4	0.21
(2,572)	1:111:A:TRP:HE1	1:130:A:TRP:HE1	5	0.21
(2,480)	1:98:A:GLY:H	2:251:B:BEZ:H6	3	0.21
(2,480)	1:98:A:GLY:H	2:251:B:BEZ:H6	4	0.21
(2,420)	1:86:A:ILE:HD11	1:198:A:SER:H	1	0.21
(2,420)	1:86:A:ILE:HD12	1:198:A:SER:H	1	0.21
(2,420)	1:86:A:ILE:HD13	1:198:A:SER:H	1	0.21
(2,406)	1:86:A:ILE:H	1:97:A:ILE:HD11	1	0.21
(2,406)	1:86:A:ILE:H	1:97:A:ILE:HD12	1	0.21
(2,406)	1:86:A:ILE:H	1:97:A:ILE:HD13	1	0.21
(2,321)	1:41:A:ILE:HD11	1:221:A:ALA:H	5	0.21
(2,321)	1:41:A:ILE:HD12	1:221:A:ALA:H	5	0.21
(2,321)	1:41:A:ILE:HD13	1:221:A:ALA:H	5	0.21
(2,302)	1:39:A:MET:HE1	1:217:A:THR:HG1	4	0.21
(2,302)	1:39:A:MET:HE2	1:217:A:THR:HG1	4	0.21
(2,302)	1:39:A:MET:HE3	1:217:A:THR:HG1	4	0.21
(1,224)	1:88:A:GLN:H	1:95:A:SER:O	6	0.21
(1,224)	1:88:A:GLN:H	1:95:A:SER:O	9	0.21
(1,218)	1:86:A:ILE:O	1:98:A:GLY:H	9	0.21
(1,200)	1:9:A:GLU:H	1:85:A:ARG:O	2	0.21
(1,142)	1:34:A:SER:O	1:38:A:SER:H	10	0.21
(1,3)	1:8:A:LEU:H	1:120:A:MET:O	5	0.21
(2,1422)	1:67:A:ASP:CG	1:80:A:GLU:C	9	0.2
(2,1404)	1:66:A:TRP:CG	1:122:A:LYS:CD	10	0.2
(2,1398)	1:65:A:LEU:CA	1:122:A:LYS:CD	7	0.2
(2,1383)	1:32:A:THR:CG2	1:42:A:LYS:CB	9	0.2
(2,1343)	1:99:A:ALA:H	1:113:A:VAL:HG11	6	0.2
(2,1343)	1:99:A:ALA:H	1:113:A:VAL:HG12	6	0.2
(2,1343)	1:99:A:ALA:H	1:113:A:VAL:HG13	6	0.2
(2,1332)	1:176:A:LEU:HD21	1:186:A:ALA:H	6	0.2
(2,1332)	1:176:A:LEU:HD22	1:186:A:ALA:H	6	0.2
(2,1332)	1:176:A:LEU:HD23	1:186:A:ALA:H	6	0.2
(2,1294)	1:7:A:GLU:H	1:120:A:MET:HE1	4	0.2
(2,1294)	1:7:A:GLU:H	1:120:A:MET:HE2	4	0.2
(2,1294)	1:7:A:GLU:H	1:120:A:MET:HE3	4	0.2
(2,1280)	1:189:A:LEU:H	1:224:A:SER:H	3	0.2
(2,1242)	1:4:A:ALA:H	1:89:A:LYS:H	9	0.2
(2,1205)	1:101:A:VAL:HG11	2:251:B:BEZ:H6	5	0.2
(2,1205)	1:101:A:VAL:HG12	2:251:B:BEZ:H6	5	0.2
(2,1205)	1:101:A:VAL:HG13	2:251:B:BEZ:H6	5	0.2
(2,1205)	1:101:A:VAL:HG21	2:251:B:BEZ:H6	5	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1205)	1:101:A:VAL:HG22	2:251:B:BEZ:H6	5	0.2
(2,1205)	1:101:A:VAL:HG23	2:251:B:BEZ:H6	5	0.2
(2,1197)	1:68:A:VAL:HG11	2:252:B:NLE:HB2	6	0.2
(2,1197)	1:68:A:VAL:HG11	2:252:B:NLE:HB3	6	0.2
(2,1197)	1:68:A:VAL:HG12	2:252:B:NLE:HB2	6	0.2
(2,1197)	1:68:A:VAL:HG12	2:252:B:NLE:HB3	6	0.2
(2,1197)	1:68:A:VAL:HG13	2:252:B:NLE:HB2	6	0.2
(2,1197)	1:68:A:VAL:HG13	2:252:B:NLE:HB3	6	0.2
(2,1197)	1:68:A:VAL:HG21	2:252:B:NLE:HB2	6	0.2
(2,1197)	1:68:A:VAL:HG21	2:252:B:NLE:HB3	6	0.2
(2,1197)	1:68:A:VAL:HG22	2:252:B:NLE:HB2	6	0.2
(2,1197)	1:68:A:VAL:HG22	2:252:B:NLE:HB3	6	0.2
(2,1197)	1:68:A:VAL:HG23	2:252:B:NLE:HB2	6	0.2
(2,1197)	1:68:A:VAL:HG23	2:252:B:NLE:HB3	6	0.2
(2,1180)	1:118:A:VAL:HG21	2:251:B:BEZ:H4	9	0.2
(2,1180)	1:118:A:VAL:HG22	2:251:B:BEZ:H4	9	0.2
(2,1180)	1:118:A:VAL:HG23	2:251:B:BEZ:H4	9	0.2
(2,1178)	1:91:A:ILE:HD11	2:251:B:BEZ:H6	8	0.2
(2,1178)	1:91:A:ILE:HD12	2:251:B:BEZ:H6	8	0.2
(2,1178)	1:91:A:ILE:HD13	2:251:B:BEZ:H6	8	0.2
(2,1178)	1:91:A:ILE:HD11	2:251:B:BEZ:H6	9	0.2
(2,1178)	1:91:A:ILE:HD12	2:251:B:BEZ:H6	9	0.2
(2,1178)	1:91:A:ILE:HD13	2:251:B:BEZ:H6	9	0.2
(2,1085)	1:214:A:GLY:H	1:224:A:SER:H	8	0.2
(2,785)	1:150:A:TRP:H	1:200:A:ILE:HD11	3	0.2
(2,785)	1:150:A:TRP:H	1:200:A:ILE:HD12	3	0.2
(2,785)	1:150:A:TRP:H	1:200:A:ILE:HD13	3	0.2
(2,690)	1:130:A:TRP:HE1	1:138:A:ILE:HD11	2	0.2
(2,690)	1:130:A:TRP:HE1	1:138:A:ILE:HD12	2	0.2
(2,690)	1:130:A:TRP:HE1	1:138:A:ILE:HD13	2	0.2
(2,619)	1:118:A:VAL:H	1:120:A:MET:HE1	4	0.2
(2,619)	1:118:A:VAL:H	1:120:A:MET:HE2	4	0.2
(2,619)	1:118:A:VAL:H	1:120:A:MET:HE3	4	0.2
(2,608)	1:116:A:GLY:H	1:119:A:LEU:HD11	9	0.2
(2,608)	1:116:A:GLY:H	1:119:A:LEU:HD12	9	0.2
(2,608)	1:116:A:GLY:H	1:119:A:LEU:HD13	9	0.2
(2,608)	1:116:A:GLY:H	1:119:A:LEU:HD21	9	0.2
(2,608)	1:116:A:GLY:H	1:119:A:LEU:HD22	9	0.2
(2,608)	1:116:A:GLY:H	1:119:A:LEU:HD23	9	0.2
(2,606)	1:115:A:ARG:H	2:251:B:BEZ:H3	9	0.2
(2,464)	1:95:A:SER:H	1:97:A:ILE:HD11	5	0.2
(2,464)	1:95:A:SER:H	1:97:A:ILE:HD12	5	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,464)	1:95:A:SER:H	1:97:A:ILE:HD13	5	0.2
(2,420)	1:86:A:ILE:HD11	1:198:A:SER:H	2	0.2
(2,420)	1:86:A:ILE:HD12	1:198:A:SER:H	2	0.2
(2,420)	1:86:A:ILE:HD13	1:198:A:SER:H	2	0.2
(2,420)	1:86:A:ILE:HD11	1:198:A:SER:H	6	0.2
(2,420)	1:86:A:ILE:HD12	1:198:A:SER:H	6	0.2
(2,420)	1:86:A:ILE:HD13	1:198:A:SER:H	6	0.2
(2,81)	1:8:A:LEU:HD11	1:100:A:GLY:H	5	0.2
(2,81)	1:8:A:LEU:HD12	1:100:A:GLY:H	5	0.2
(2,81)	1:8:A:LEU:HD13	1:100:A:GLY:H	5	0.2
(2,81)	1:8:A:LEU:HD21	1:100:A:GLY:H	5	0.2
(2,81)	1:8:A:LEU:HD22	1:100:A:GLY:H	5	0.2
(2,81)	1:8:A:LEU:HD23	1:100:A:GLY:H	5	0.2
(2,81)	1:8:A:LEU:HD11	1:100:A:GLY:H	10	0.2
(2,81)	1:8:A:LEU:HD12	1:100:A:GLY:H	10	0.2
(2,81)	1:8:A:LEU:HD13	1:100:A:GLY:H	10	0.2
(2,81)	1:8:A:LEU:HD21	1:100:A:GLY:H	10	0.2
(2,81)	1:8:A:LEU:HD22	1:100:A:GLY:H	10	0.2
(2,81)	1:8:A:LEU:HD23	1:100:A:GLY:H	10	0.2
(2,74)	1:8:A:LEU:HD11	1:68:A:VAL:H	1	0.2
(2,74)	1:8:A:LEU:HD12	1:68:A:VAL:H	1	0.2
(2,74)	1:8:A:LEU:HD13	1:68:A:VAL:H	1	0.2
(2,74)	1:8:A:LEU:HD21	1:68:A:VAL:H	1	0.2
(2,74)	1:8:A:LEU:HD22	1:68:A:VAL:H	1	0.2
(2,74)	1:8:A:LEU:HD23	1:68:A:VAL:H	1	0.2
(1,224)	1:88:A:GLN:H	1:95:A:SER:O	2	0.2
(1,224)	1:88:A:GLN:H	1:95:A:SER:O	5	0.2
(1,192)	1:5:A:ASP:O	1:89:A:LYS:H	3	0.2
(1,137)	1:8:A:LEU:N	1:120:A:MET:O	8	0.2
(1,132)	1:112:A:HIS:NE2	1:196:A:SER:OG	3	0.2
(1,132)	1:112:A:HIS:NE2	1:196:A:SER:OG	6	0.2
(1,3)	1:8:A:LEU:H	1:120:A:MET:O	8	0.2
(2,1432)	1:108:A:HIS:CD2	1:144:A:TRP:CE3	5	0.19
(2,1416)	1:67:A:ASP:CB	1:80:A:GLU:CA	4	0.19
(2,1412)	1:66:A:TRP:CE2	1:122:A:LYS:CE	3	0.19
(2,1408)	1:66:A:TRP:CD1	1:122:A:LYS:CG	3	0.19
(2,1390)	1:64:A:VAL:CB	1:122:A:LYS:CG	3	0.19
(2,1383)	1:32:A:THR:CG2	1:42:A:LYS:CB	8	0.19
(2,1380)	1:10:A:ARG:CB	1:84:A:TYR:CE2	7	0.19
(2,1342)	1:88:A:GLN:H	1:97:A:ILE:HD11	4	0.19
(2,1342)	1:88:A:GLN:H	1:97:A:ILE:HD12	4	0.19
(2,1342)	1:88:A:GLN:H	1:97:A:ILE:HD13	4	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1311)	1:25:A:SER:H	1:188:A:SER:H	5	0.19
(2,1291)	1:4:A:ALA:H	1:118:A:VAL:HG21	7	0.19
(2,1291)	1:4:A:ALA:H	1:118:A:VAL:HG22	7	0.19
(2,1291)	1:4:A:ALA:H	1:118:A:VAL:HG23	7	0.19
(2,1265)	1:21:A:GLU:H	1:170:A:VAL:HG21	7	0.19
(2,1265)	1:21:A:GLU:H	1:170:A:VAL:HG22	7	0.19
(2,1265)	1:21:A:GLU:H	1:170:A:VAL:HG23	7	0.19
(2,1242)	1:4:A:ALA:H	1:89:A:LYS:H	3	0.19
(2,1230)	1:109:A:THR:HG1	1:137:A:LEU:HD11	7	0.19
(2,1230)	1:109:A:THR:HG1	1:137:A:LEU:HD12	7	0.19
(2,1230)	1:109:A:THR:HG1	1:137:A:LEU:HD13	7	0.19
(2,1196)	1:65:A:LEU:HD11	2:255:B:M9P:HD	10	0.19
(2,1196)	1:65:A:LEU:HD11	2:255:B:M9P:HDA	10	0.19
(2,1196)	1:65:A:LEU:HD12	2:255:B:M9P:HD	10	0.19
(2,1196)	1:65:A:LEU:HD12	2:255:B:M9P:HDA	10	0.19
(2,1196)	1:65:A:LEU:HD13	2:255:B:M9P:HD	10	0.19
(2,1196)	1:65:A:LEU:HD13	2:255:B:M9P:HDA	10	0.19
(2,1196)	1:65:A:LEU:HD21	2:255:B:M9P:HD	10	0.19
(2,1196)	1:65:A:LEU:HD21	2:255:B:M9P:HDA	10	0.19
(2,1196)	1:65:A:LEU:HD22	2:255:B:M9P:HD	10	0.19
(2,1196)	1:65:A:LEU:HD22	2:255:B:M9P:HDA	10	0.19
(2,1196)	1:65:A:LEU:HD23	2:255:B:M9P:HD	10	0.19
(2,1196)	1:65:A:LEU:HD23	2:255:B:M9P:HDA	10	0.19
(2,1195)	1:65:A:LEU:HD11	2:253:B:LYS:HE2	9	0.19
(2,1195)	1:65:A:LEU:HD11	2:253:B:LYS:HE3	9	0.19
(2,1195)	1:65:A:LEU:HD12	2:253:B:LYS:HE2	9	0.19
(2,1195)	1:65:A:LEU:HD12	2:253:B:LYS:HE3	9	0.19
(2,1195)	1:65:A:LEU:HD13	2:253:B:LYS:HE2	9	0.19
(2,1195)	1:65:A:LEU:HD13	2:253:B:LYS:HE3	9	0.19
(2,1195)	1:65:A:LEU:HD21	2:253:B:LYS:HE2	9	0.19
(2,1195)	1:65:A:LEU:HD21	2:253:B:LYS:HE3	9	0.19
(2,1195)	1:65:A:LEU:HD22	2:253:B:LYS:HE2	9	0.19
(2,1195)	1:65:A:LEU:HD22	2:253:B:LYS:HE3	9	0.19
(2,1195)	1:65:A:LEU:HD23	2:253:B:LYS:HE2	9	0.19
(2,1195)	1:65:A:LEU:HD23	2:253:B:LYS:HE3	9	0.19
(2,1181)	1:109:A:THR:HG1	1:137:A:LEU:HD11	7	0.19
(2,1181)	1:109:A:THR:HG1	1:137:A:LEU:HD12	7	0.19
(2,1181)	1:109:A:THR:HG1	1:137:A:LEU:HD13	7	0.19
(2,1157)	1:97:A:ILE:HD11	2:252:B:NLE:HD3	2	0.19
(2,1157)	1:97:A:ILE:HD12	2:252:B:NLE:HD3	2	0.19
(2,1157)	1:97:A:ILE:HD13	2:252:B:NLE:HD3	2	0.19
(2,1085)	1:214:A:GLY:H	1:224:A:SER:H	9	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,779)	1:149:A:GLU:H	1:208:A:VAL:H	9	0.19
(2,766)	1:147:A:GLU:H	1:207:A:VAL:HG11	10	0.19
(2,766)	1:147:A:GLU:H	1:207:A:VAL:HG12	10	0.19
(2,766)	1:147:A:GLU:H	1:207:A:VAL:HG13	10	0.19
(2,766)	1:147:A:GLU:H	1:207:A:VAL:HG21	10	0.19
(2,766)	1:147:A:GLU:H	1:207:A:VAL:HG22	10	0.19
(2,766)	1:147:A:GLU:H	1:207:A:VAL:HG23	10	0.19
(2,690)	1:130:A:TRP:HE1	1:138:A:ILE:HD11	7	0.19
(2,690)	1:130:A:TRP:HE1	1:138:A:ILE:HD12	7	0.19
(2,690)	1:130:A:TRP:HE1	1:138:A:ILE:HD13	7	0.19
(2,689)	1:130:A:TRP:HE1	1:133:A:VAL:HG11	1	0.19
(2,689)	1:130:A:TRP:HE1	1:133:A:VAL:HG12	1	0.19
(2,689)	1:130:A:TRP:HE1	1:133:A:VAL:HG13	1	0.19
(2,689)	1:130:A:TRP:HE1	1:133:A:VAL:HG21	1	0.19
(2,689)	1:130:A:TRP:HE1	1:133:A:VAL:HG22	1	0.19
(2,689)	1:130:A:TRP:HE1	1:133:A:VAL:HG23	1	0.19
(2,501)	1:101:A:VAL:HG11	1:110:A:MET:H	5	0.19
(2,501)	1:101:A:VAL:HG12	1:110:A:MET:H	5	0.19
(2,501)	1:101:A:VAL:HG13	1:110:A:MET:H	5	0.19
(2,501)	1:101:A:VAL:HG21	1:110:A:MET:H	5	0.19
(2,501)	1:101:A:VAL:HG22	1:110:A:MET:H	5	0.19
(2,501)	1:101:A:VAL:HG23	1:110:A:MET:H	5	0.19
(2,452)	1:91:A:ILE:HD11	1:95:A:SER:H	4	0.19
(2,452)	1:91:A:ILE:HD12	1:95:A:SER:H	4	0.19
(2,452)	1:91:A:ILE:HD13	1:95:A:SER:H	4	0.19
(2,439)	1:89:A:LYS:H	1:120:A:MET:HE1	5	0.19
(2,439)	1:89:A:LYS:H	1:120:A:MET:HE2	5	0.19
(2,439)	1:89:A:LYS:H	1:120:A:MET:HE3	5	0.19
(2,326)	1:48:A:GLN:H	2:253:B:LYS:HD2	1	0.19
(2,326)	1:48:A:GLN:H	2:253:B:LYS:HD3	1	0.19
(2,320)	1:41:A:ILE:HD11	1:220:A:GLY:H	2	0.19
(2,320)	1:41:A:ILE:HD12	1:220:A:GLY:H	2	0.19
(2,320)	1:41:A:ILE:HD13	1:220:A:GLY:H	2	0.19
(2,146)	1:16:A:TRP:HE1	1:170:A:VAL:HG11	8	0.19
(2,146)	1:16:A:TRP:HE1	1:170:A:VAL:HG12	8	0.19
(2,146)	1:16:A:TRP:HE1	1:170:A:VAL:HG13	8	0.19
(2,146)	1:16:A:TRP:HE1	1:170:A:VAL:HG21	8	0.19
(2,146)	1:16:A:TRP:HE1	1:170:A:VAL:HG22	8	0.19
(2,146)	1:16:A:TRP:HE1	1:170:A:VAL:HG23	8	0.19
(2,10)	1:4:A:ALA:H	1:120:A:MET:HG2	10	0.19
(2,10)	1:4:A:ALA:H	1:120:A:MET:HG3	10	0.19
(1,250)	1:107:A:PHE:O	1:140:A:TYR:H	8	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,219)	1:86:A:ILE:O	1:98:A:GLY:N	6	0.19
(1,219)	1:86:A:ILE:O	1:98:A:GLY:N	8	0.19
(1,219)	1:86:A:ILE:O	1:98:A:GLY:N	9	0.19
(1,218)	1:86:A:ILE:O	1:98:A:GLY:H	5	0.19
(1,218)	1:86:A:ILE:O	1:98:A:GLY:H	6	0.19
(1,218)	1:86:A:ILE:O	1:98:A:GLY:H	8	0.19
(1,192)	1:5:A:ASP:O	1:89:A:LYS:H	5	0.19
(1,186)	1:119:A:LEU:H	1:126:A:ILE:O	4	0.19
(1,168)	1:215:A:VAL:O	1:223:A:VAL:H	10	0.19
(1,137)	1:8:A:LEU:N	1:120:A:MET:O	3	0.19
(1,132)	1:112:A:HIS:NE2	1:196:A:SER:OG	7	0.19
(1,132)	1:112:A:HIS:NE2	1:196:A:SER:OG	8	0.19
(2,1416)	1:67:A:ASP:CB	1:80:A:GLU:CA	7	0.18
(2,1377)	1:9:A:GLU:CD	1:51:A:GLY:CA	8	0.18
(2,1349)	1:31:A:ILE:HD11	1:184:A:ILE:HD11	4	0.18
(2,1349)	1:31:A:ILE:HD11	1:184:A:ILE:HD12	4	0.18
(2,1349)	1:31:A:ILE:HD11	1:184:A:ILE:HD13	4	0.18
(2,1349)	1:31:A:ILE:HD12	1:184:A:ILE:HD11	4	0.18
(2,1349)	1:31:A:ILE:HD12	1:184:A:ILE:HD12	4	0.18
(2,1349)	1:31:A:ILE:HD12	1:184:A:ILE:HD13	4	0.18
(2,1349)	1:31:A:ILE:HD13	1:184:A:ILE:HD11	4	0.18
(2,1349)	1:31:A:ILE:HD13	1:184:A:ILE:HD12	4	0.18
(2,1349)	1:31:A:ILE:HD13	1:184:A:ILE:HD13	4	0.18
(2,1349)	1:31:A:ILE:HD11	1:184:A:ILE:HD11	9	0.18
(2,1349)	1:31:A:ILE:HD11	1:184:A:ILE:HD12	9	0.18
(2,1349)	1:31:A:ILE:HD11	1:184:A:ILE:HD13	9	0.18
(2,1349)	1:31:A:ILE:HD12	1:184:A:ILE:HD11	9	0.18
(2,1349)	1:31:A:ILE:HD12	1:184:A:ILE:HD12	9	0.18
(2,1349)	1:31:A:ILE:HD12	1:184:A:ILE:HD13	9	0.18
(2,1349)	1:31:A:ILE:HD13	1:184:A:ILE:HD11	9	0.18
(2,1349)	1:31:A:ILE:HD13	1:184:A:ILE:HD12	9	0.18
(2,1349)	1:31:A:ILE:HD13	1:184:A:ILE:HD13	9	0.18
(2,1344)	1:109:A:THR:H	1:137:A:LEU:HD21	1	0.18
(2,1344)	1:109:A:THR:H	1:137:A:LEU:HD22	1	0.18
(2,1344)	1:109:A:THR:H	1:137:A:LEU:HD23	1	0.18
(2,1343)	1:99:A:ALA:H	1:113:A:VAL:HG11	4	0.18
(2,1343)	1:99:A:ALA:H	1:113:A:VAL:HG12	4	0.18
(2,1343)	1:99:A:ALA:H	1:113:A:VAL:HG13	4	0.18
(2,1332)	1:176:A:LEU:HD21	1:186:A:ALA:H	3	0.18
(2,1332)	1:176:A:LEU:HD22	1:186:A:ALA:H	3	0.18
(2,1332)	1:176:A:LEU:HD23	1:186:A:ALA:H	3	0.18
(2,1332)	1:176:A:LEU:HD21	1:186:A:ALA:H	4	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1332)	1:176:A:LEU:HD22	1:186:A:ALA:H	4	0.18
(2,1332)	1:176:A:LEU:HD23	1:186:A:ALA:H	4	0.18
(2,1322)	1:6:A:LEU:HD21	1:88:A:GLN:H	8	0.18
(2,1322)	1:6:A:LEU:HD22	1:88:A:GLN:H	8	0.18
(2,1322)	1:6:A:LEU:HD23	1:88:A:GLN:H	8	0.18
(2,1251)	1:6:A:LEU:H	1:119:A:LEU:HD11	1	0.18
(2,1251)	1:6:A:LEU:H	1:119:A:LEU:HD12	1	0.18
(2,1251)	1:6:A:LEU:H	1:119:A:LEU:HD13	1	0.18
(2,1251)	1:6:A:LEU:H	1:119:A:LEU:HD11	5	0.18
(2,1251)	1:6:A:LEU:H	1:119:A:LEU:HD12	5	0.18
(2,1251)	1:6:A:LEU:H	1:119:A:LEU:HD13	5	0.18
(2,1249)	1:5:A:ASP:H	1:119:A:LEU:HD21	10	0.18
(2,1249)	1:5:A:ASP:H	1:119:A:LEU:HD22	10	0.18
(2,1249)	1:5:A:ASP:H	1:119:A:LEU:HD23	10	0.18
(2,1248)	1:5:A:ASP:H	1:118:A:VAL:HG21	5	0.18
(2,1248)	1:5:A:ASP:H	1:118:A:VAL:HG22	5	0.18
(2,1248)	1:5:A:ASP:H	1:118:A:VAL:HG23	5	0.18
(2,1191)	1:65:A:LEU:HD11	2:251:B:BEZ:H6	3	0.18
(2,1191)	1:65:A:LEU:HD12	2:251:B:BEZ:H6	3	0.18
(2,1191)	1:65:A:LEU:HD13	2:251:B:BEZ:H6	3	0.18
(2,1191)	1:65:A:LEU:HD21	2:251:B:BEZ:H6	3	0.18
(2,1191)	1:65:A:LEU:HD22	2:251:B:BEZ:H6	3	0.18
(2,1191)	1:65:A:LEU:HD23	2:251:B:BEZ:H6	3	0.18
(2,1180)	1:118:A:VAL:HG21	2:251:B:BEZ:H4	1	0.18
(2,1180)	1:118:A:VAL:HG22	2:251:B:BEZ:H4	1	0.18
(2,1180)	1:118:A:VAL:HG23	2:251:B:BEZ:H4	1	0.18
(2,955)	1:186:A:ALA:H	1:226:A:ILE:H	6	0.18
(2,930)	1:178:A:LYS:H	1:184:A:ILE:HD11	5	0.18
(2,930)	1:178:A:LYS:H	1:184:A:ILE:HD12	5	0.18
(2,930)	1:178:A:LYS:H	1:184:A:ILE:HD13	5	0.18
(2,864)	1:159:A:LEU:HD11	1:162:A:GLU:H	5	0.18
(2,864)	1:159:A:LEU:HD12	1:162:A:GLU:H	5	0.18
(2,864)	1:159:A:LEU:HD13	1:162:A:GLU:H	5	0.18
(2,864)	1:159:A:LEU:HD21	1:162:A:GLU:H	5	0.18
(2,864)	1:159:A:LEU:HD22	1:162:A:GLU:H	5	0.18
(2,864)	1:159:A:LEU:HD23	1:162:A:GLU:H	5	0.18
(2,842)	1:158:A:VAL:HG11	1:169:A:ALA:H	8	0.18
(2,842)	1:158:A:VAL:HG12	1:169:A:ALA:H	8	0.18
(2,842)	1:158:A:VAL:HG13	1:169:A:ALA:H	8	0.18
(2,842)	1:158:A:VAL:HG21	1:169:A:ALA:H	8	0.18
(2,842)	1:158:A:VAL:HG22	1:169:A:ALA:H	8	0.18
(2,842)	1:158:A:VAL:HG23	1:169:A:ALA:H	8	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,690)	1:130:A:TRP:HE1	1:138:A:ILE:HD11	5	0.18
(2,690)	1:130:A:TRP:HE1	1:138:A:ILE:HD12	5	0.18
(2,690)	1:130:A:TRP:HE1	1:138:A:ILE:HD13	5	0.18
(2,690)	1:130:A:TRP:HE1	1:138:A:ILE:HD11	10	0.18
(2,690)	1:130:A:TRP:HE1	1:138:A:ILE:HD12	10	0.18
(2,690)	1:130:A:TRP:HE1	1:138:A:ILE:HD13	10	0.18
(2,661)	1:120:A:MET:HE1	1:122:A:LYS:H	5	0.18
(2,661)	1:120:A:MET:HE2	1:122:A:LYS:H	5	0.18
(2,661)	1:120:A:MET:HE3	1:122:A:LYS:H	5	0.18
(2,480)	1:98:A:GLY:H	2:251:B:BEZ:H6	2	0.18
(2,439)	1:89:A:LYS:H	1:120:A:MET:HE1	1	0.18
(2,439)	1:89:A:LYS:H	1:120:A:MET:HE2	1	0.18
(2,439)	1:89:A:LYS:H	1:120:A:MET:HE3	1	0.18
(2,420)	1:86:A:ILE:HD11	1:198:A:SER:H	4	0.18
(2,420)	1:86:A:ILE:HD12	1:198:A:SER:H	4	0.18
(2,420)	1:86:A:ILE:HD13	1:198:A:SER:H	4	0.18
(2,383)	1:79:A:LEU:HD11	1:81:A:ASP:H	2	0.18
(2,383)	1:79:A:LEU:HD12	1:81:A:ASP:H	2	0.18
(2,383)	1:79:A:LEU:HD13	1:81:A:ASP:H	2	0.18
(2,383)	1:79:A:LEU:HD21	1:81:A:ASP:H	2	0.18
(2,383)	1:79:A:LEU:HD22	1:81:A:ASP:H	2	0.18
(2,383)	1:79:A:LEU:HD23	1:81:A:ASP:H	2	0.18
(2,339)	1:51:A:GLY:H	1:161:A:LEU:HD11	5	0.18
(2,339)	1:51:A:GLY:H	1:161:A:LEU:HD12	5	0.18
(2,339)	1:51:A:GLY:H	1:161:A:LEU:HD13	5	0.18
(2,339)	1:51:A:GLY:H	1:161:A:LEU:HD21	5	0.18
(2,339)	1:51:A:GLY:H	1:161:A:LEU:HD22	5	0.18
(2,339)	1:51:A:GLY:H	1:161:A:LEU:HD23	5	0.18
(2,178)	1:23:A:SER:H	1:173:A:LYS:H	10	0.18
(1,240)	1:200:A:ILE:O	1:208:A:VAL:H	2	0.18
(1,240)	1:200:A:ILE:O	1:208:A:VAL:H	5	0.18
(1,240)	1:200:A:ILE:O	1:208:A:VAL:H	8	0.18
(1,240)	1:200:A:ILE:O	1:208:A:VAL:H	9	0.18
(1,236)	1:200:A:ILE:O	1:209:A:GLY:H	8	0.18
(1,192)	1:5:A:ASP:O	1:89:A:LYS:H	8	0.18
(1,142)	1:34:A:SER:O	1:38:A:SER:H	2	0.18
(1,142)	1:34:A:SER:O	1:38:A:SER:H	8	0.18
(1,137)	1:8:A:LEU:N	1:120:A:MET:O	1	0.18
(1,4)	1:8:A:LEU:N	1:120:A:MET:O	6	0.18
(1,3)	1:8:A:LEU:H	1:120:A:MET:O	3	0.18
(2,1438)	1:159:A:LEU:CD1	1:201:A:ILE:CD1	1	0.17
(2,1416)	1:67:A:ASP:CB	1:80:A:GLU:CA	3	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1377)	1:9:A:GLU:CD	1:51:A:GLY:CA	1	0.17
(2,1371)	1:187:A:VAL:HG11	1:226:A:ILE:HD11	9	0.17
(2,1371)	1:187:A:VAL:HG11	1:226:A:ILE:HD12	9	0.17
(2,1371)	1:187:A:VAL:HG11	1:226:A:ILE:HD13	9	0.17
(2,1371)	1:187:A:VAL:HG12	1:226:A:ILE:HD11	9	0.17
(2,1371)	1:187:A:VAL:HG12	1:226:A:ILE:HD12	9	0.17
(2,1371)	1:187:A:VAL:HG12	1:226:A:ILE:HD13	9	0.17
(2,1371)	1:187:A:VAL:HG13	1:226:A:ILE:HD11	9	0.17
(2,1371)	1:187:A:VAL:HG13	1:226:A:ILE:HD12	9	0.17
(2,1371)	1:187:A:VAL:HG13	1:226:A:ILE:HD13	9	0.17
(2,1344)	1:109:A:THR:H	1:137:A:LEU:HD21	6	0.17
(2,1344)	1:109:A:THR:H	1:137:A:LEU:HD22	6	0.17
(2,1344)	1:109:A:THR:H	1:137:A:LEU:HD23	6	0.17
(2,1305)	1:13:A:ASP:H	1:161:A:LEU:HD21	7	0.17
(2,1305)	1:13:A:ASP:H	1:161:A:LEU:HD22	7	0.17
(2,1305)	1:13:A:ASP:H	1:161:A:LEU:HD23	7	0.17
(2,1195)	1:65:A:LEU:HD11	2:253:B:LYS:HE2	7	0.17
(2,1195)	1:65:A:LEU:HD11	2:253:B:LYS:HE3	7	0.17
(2,1195)	1:65:A:LEU:HD12	2:253:B:LYS:HE2	7	0.17
(2,1195)	1:65:A:LEU:HD12	2:253:B:LYS:HE3	7	0.17
(2,1195)	1:65:A:LEU:HD13	2:253:B:LYS:HE2	7	0.17
(2,1195)	1:65:A:LEU:HD13	2:253:B:LYS:HE3	7	0.17
(2,1195)	1:65:A:LEU:HD21	2:253:B:LYS:HE2	7	0.17
(2,1195)	1:65:A:LEU:HD21	2:253:B:LYS:HE3	7	0.17
(2,1195)	1:65:A:LEU:HD22	2:253:B:LYS:HE2	7	0.17
(2,1195)	1:65:A:LEU:HD22	2:253:B:LYS:HE3	7	0.17
(2,1195)	1:65:A:LEU:HD23	2:253:B:LYS:HE2	7	0.17
(2,1195)	1:65:A:LEU:HD23	2:253:B:LYS:HE3	7	0.17
(2,1113)	1:217:A:THR:HG1	1:220:A:GLY:H	3	0.17
(2,884)	1:162:A:GLU:H	1:168:A:ARG:H	6	0.17
(2,883)	1:162:A:GLU:H	1:166:A:ASN:HD21	8	0.17
(2,883)	1:162:A:GLU:H	1:166:A:ASN:HD22	8	0.17
(2,555)	1:110:A:MET:HE1	1:198:A:SER:H	7	0.17
(2,555)	1:110:A:MET:HE2	1:198:A:SER:H	7	0.17
(2,555)	1:110:A:MET:HE3	1:198:A:SER:H	7	0.17
(2,501)	1:101:A:VAL:HG11	1:110:A:MET:H	8	0.17
(2,501)	1:101:A:VAL:HG12	1:110:A:MET:H	8	0.17
(2,501)	1:101:A:VAL:HG13	1:110:A:MET:H	8	0.17
(2,501)	1:101:A:VAL:HG21	1:110:A:MET:H	8	0.17
(2,501)	1:101:A:VAL:HG22	1:110:A:MET:H	8	0.17
(2,501)	1:101:A:VAL:HG23	1:110:A:MET:H	8	0.17
(2,456)	1:91:A:ILE:HD11	2:254:B:ARG:HA	2	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,456)	1:91:A:ILE:HD12	2:254:B:ARG:HA	2	0.17
(2,456)	1:91:A:ILE:HD13	2:254:B:ARG:HA	2	0.17
(2,421)	1:86:A:ILE:HD11	2:251:B:BEZ:H6	3	0.17
(2,421)	1:86:A:ILE:HD12	2:251:B:BEZ:H6	3	0.17
(2,421)	1:86:A:ILE:HD13	2:251:B:BEZ:H6	3	0.17
(2,369)	1:66:A:TRP:HE1	1:67:A:ASP:H	4	0.17
(2,350)	1:64:A:VAL:H	1:66:A:TRP:H	9	0.17
(2,240)	1:31:A:ILE:H	1:179:A:THR:H	9	0.17
(1,262)	1:195:A:THR:O	1:198:A:SER:H	2	0.17
(1,262)	1:195:A:THR:O	1:198:A:SER:H	7	0.17
(1,240)	1:200:A:ILE:O	1:208:A:VAL:H	10	0.17
(1,224)	1:88:A:GLN:H	1:95:A:SER:O	7	0.17
(1,224)	1:88:A:GLN:H	1:95:A:SER:O	10	0.17
(1,222)	1:88:A:GLN:O	1:95:A:SER:H	7	0.17
(1,220)	1:86:A:ILE:O	1:97:A:ILE:H	7	0.17
(1,219)	1:86:A:ILE:O	1:98:A:GLY:N	5	0.17
(1,218)	1:86:A:ILE:O	1:98:A:GLY:H	2	0.17
(1,216)	1:86:A:ILE:H	1:98:A:GLY:O	2	0.17
(1,186)	1:119:A:LEU:H	1:126:A:ILE:O	3	0.17
(1,172)	1:217:A:THR:O	1:221:A:ALA:H	8	0.17
(1,140)	1:32:A:THR:H	1:40:A:SER:O	10	0.17
(1,137)	1:8:A:LEU:N	1:120:A:MET:O	4	0.17
(1,3)	1:8:A:LEU:H	1:120:A:MET:O	1	0.17
(1,3)	1:8:A:LEU:H	1:120:A:MET:O	10	0.17
(2,1422)	1:67:A:ASP:CG	1:80:A:GLU:C	3	0.16
(2,1404)	1:66:A:TRP:CG	1:122:A:LYS:CD	1	0.16
(2,1342)	1:88:A:GLN:H	1:97:A:ILE:HD11	6	0.16
(2,1342)	1:88:A:GLN:H	1:97:A:ILE:HD12	6	0.16
(2,1342)	1:88:A:GLN:H	1:97:A:ILE:HD13	6	0.16
(2,1312)	1:21:A:GLU:H	1:170:A:VAL:HG11	2	0.16
(2,1312)	1:21:A:GLU:H	1:170:A:VAL:HG12	2	0.16
(2,1312)	1:21:A:GLU:H	1:170:A:VAL:HG13	2	0.16
(2,1281)	1:197:A:GLY:H	1:211:A:TYR:H	9	0.16
(2,1275)	1:111:A:TRP:HE1	1:133:A:VAL:HG11	3	0.16
(2,1275)	1:111:A:TRP:HE1	1:133:A:VAL:HG12	3	0.16
(2,1275)	1:111:A:TRP:HE1	1:133:A:VAL:HG13	3	0.16
(2,1243)	1:4:A:ALA:H	1:88:A:GLN:HE21	5	0.16
(2,1230)	1:109:A:THR:HG1	1:137:A:LEU:HD11	10	0.16
(2,1230)	1:109:A:THR:HG1	1:137:A:LEU:HD12	10	0.16
(2,1230)	1:109:A:THR:HG1	1:137:A:LEU:HD13	10	0.16
(2,1196)	1:65:A:LEU:HD11	2:255:B:M9P:HD	7	0.16
(2,1196)	1:65:A:LEU:HD11	2:255:B:M9P:HDA	7	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1196)	1:65:A:LEU:HD12	2:255:B:M9P:HD	7	0.16
(2,1196)	1:65:A:LEU:HD12	2:255:B:M9P:HDA	7	0.16
(2,1196)	1:65:A:LEU:HD13	2:255:B:M9P:HD	7	0.16
(2,1196)	1:65:A:LEU:HD13	2:255:B:M9P:HDA	7	0.16
(2,1196)	1:65:A:LEU:HD21	2:255:B:M9P:HD	7	0.16
(2,1196)	1:65:A:LEU:HD21	2:255:B:M9P:HDA	7	0.16
(2,1196)	1:65:A:LEU:HD22	2:255:B:M9P:HD	7	0.16
(2,1196)	1:65:A:LEU:HD22	2:255:B:M9P:HDA	7	0.16
(2,1196)	1:65:A:LEU:HD23	2:255:B:M9P:HD	7	0.16
(2,1196)	1:65:A:LEU:HD23	2:255:B:M9P:HDA	7	0.16
(2,1181)	1:109:A:THR:HG1	1:137:A:LEU:HD11	10	0.16
(2,1181)	1:109:A:THR:HG1	1:137:A:LEU:HD12	10	0.16
(2,1181)	1:109:A:THR:HG1	1:137:A:LEU:HD13	10	0.16
(2,1113)	1:217:A:THR:HG1	1:220:A:GLY:H	8	0.16
(2,991)	1:191:A:PHE:H	1:192:A:SER:HG	9	0.16
(2,787)	1:150:A:TRP:H	1:208:A:VAL:HG11	10	0.16
(2,787)	1:150:A:TRP:H	1:208:A:VAL:HG12	10	0.16
(2,787)	1:150:A:TRP:H	1:208:A:VAL:HG13	10	0.16
(2,787)	1:150:A:TRP:H	1:208:A:VAL:HG21	10	0.16
(2,787)	1:150:A:TRP:H	1:208:A:VAL:HG22	10	0.16
(2,787)	1:150:A:TRP:H	1:208:A:VAL:HG23	10	0.16
(2,555)	1:110:A:MET:HE1	1:198:A:SER:H	10	0.16
(2,555)	1:110:A:MET:HE2	1:198:A:SER:H	10	0.16
(2,555)	1:110:A:MET:HE3	1:198:A:SER:H	10	0.16
(2,480)	1:98:A:GLY:H	2:251:B:BEZ:H6	8	0.16
(2,480)	1:98:A:GLY:H	2:251:B:BEZ:H6	9	0.16
(2,439)	1:89:A:LYS:H	1:120:A:MET:HE1	2	0.16
(2,439)	1:89:A:LYS:H	1:120:A:MET:HE2	2	0.16
(2,439)	1:89:A:LYS:H	1:120:A:MET:HE3	2	0.16
(2,384)	1:79:A:LEU:HD11	1:106:A:THR:H	1	0.16
(2,384)	1:79:A:LEU:HD12	1:106:A:THR:H	1	0.16
(2,384)	1:79:A:LEU:HD13	1:106:A:THR:H	1	0.16
(2,384)	1:79:A:LEU:HD21	1:106:A:THR:H	1	0.16
(2,384)	1:79:A:LEU:HD22	1:106:A:THR:H	1	0.16
(2,384)	1:79:A:LEU:HD23	1:106:A:THR:H	1	0.16
(2,231)	1:30:A:SER:H	1:41:A:ILE:HD11	9	0.16
(2,231)	1:30:A:SER:H	1:41:A:ILE:HD12	9	0.16
(2,231)	1:30:A:SER:H	1:41:A:ILE:HD13	9	0.16
(2,209)	1:29:A:LEU:H	1:31:A:ILE:HD11	4	0.16
(2,209)	1:29:A:LEU:H	1:31:A:ILE:HD12	4	0.16
(2,209)	1:29:A:LEU:H	1:31:A:ILE:HD13	4	0.16
(2,149)	1:17:A:GLU:H	1:20:A:ALA:H	7	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,10)	1:4:A:ALA:H	1:120:A:MET:HG2	3	0.16
(2,10)	1:4:A:ALA:H	1:120:A:MET:HG3	3	0.16
(2,10)	1:4:A:ALA:H	1:120:A:MET:HG2	8	0.16
(2,10)	1:4:A:ALA:H	1:120:A:MET:HG3	8	0.16
(2,3)	1:3:A:ALA:H	1:88:A:GLN:HE21	7	0.16
(2,3)	1:3:A:ALA:H	1:88:A:GLN:HE22	7	0.16
(1,262)	1:195:A:THR:O	1:198:A:SER:H	10	0.16
(1,254)	1:210:A:LEU:O	1:227:A:ALA:H	1	0.16
(1,224)	1:88:A:GLN:H	1:95:A:SER:O	3	0.16
(1,224)	1:88:A:GLN:H	1:95:A:SER:O	4	0.16
(1,218)	1:86:A:ILE:O	1:98:A:GLY:H	7	0.16
(1,192)	1:5:A:ASP:O	1:89:A:LYS:H	2	0.16
(1,168)	1:215:A:VAL:O	1:223:A:VAL:H	1	0.16
(1,154)	1:156:A:VAL:H	1:172:A:THR:O	9	0.16
(1,137)	1:8:A:LEU:N	1:120:A:MET:O	7	0.16
(1,137)	1:8:A:LEU:N	1:120:A:MET:O	10	0.16
(1,132)	1:112:A:HIS:NE2	1:196:A:SER:OG	5	0.16
(2,1434)	1:118:A:VAL:CG1	1:125:A:ARG:CG	2	0.15
(2,1423)	1:67:A:ASP:C	1:78:A:GLU:CD	1	0.15
(2,1411)	1:66:A:TRP:CD2	1:122:A:LYS:CE	10	0.15
(2,1407)	1:66:A:TRP:CD1	1:121:A:HIS:CE1	7	0.15
(2,1395)	1:64:A:VAL:C	1:122:A:LYS:CG	8	0.15
(2,1387)	1:34:A:SER:CB	1:39:A:MET:CB	5	0.15
(2,1359)	1:158:A:VAL:HG21	1:187:A:VAL:HG11	7	0.15
(2,1359)	1:158:A:VAL:HG21	1:187:A:VAL:HG12	7	0.15
(2,1359)	1:158:A:VAL:HG21	1:187:A:VAL:HG13	7	0.15
(2,1359)	1:158:A:VAL:HG22	1:187:A:VAL:HG11	7	0.15
(2,1359)	1:158:A:VAL:HG22	1:187:A:VAL:HG12	7	0.15
(2,1359)	1:158:A:VAL:HG22	1:187:A:VAL:HG13	7	0.15
(2,1359)	1:158:A:VAL:HG23	1:187:A:VAL:HG11	7	0.15
(2,1359)	1:158:A:VAL:HG23	1:187:A:VAL:HG12	7	0.15
(2,1359)	1:158:A:VAL:HG23	1:187:A:VAL:HG13	7	0.15
(2,1322)	1:6:A:LEU:HD21	1:88:A:GLN:H	3	0.15
(2,1322)	1:6:A:LEU:HD22	1:88:A:GLN:H	3	0.15
(2,1322)	1:6:A:LEU:HD23	1:88:A:GLN:H	3	0.15
(2,1316)	1:30:A:SER:H	1:178:A:LYS:H	10	0.15
(2,1291)	1:4:A:ALA:H	1:118:A:VAL:HG21	9	0.15
(2,1291)	1:4:A:ALA:H	1:118:A:VAL:HG22	9	0.15
(2,1291)	1:4:A:ALA:H	1:118:A:VAL:HG23	9	0.15
(2,1287)	1:144:A:TRP:HE1	1:228:A:GLN:H	1	0.15
(2,1278)	1:186:A:ALA:H	1:226:A:ILE:HD11	7	0.15
(2,1278)	1:186:A:ALA:H	1:226:A:ILE:HD12	7	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1278)	1:186:A:ALA:H	1:226:A:ILE:HD13	7	0.15
(2,1276)	1:111:A:TRP:HE1	1:133:A:VAL:HG21	2	0.15
(2,1276)	1:111:A:TRP:HE1	1:133:A:VAL:HG22	2	0.15
(2,1276)	1:111:A:TRP:HE1	1:133:A:VAL:HG23	2	0.15
(2,1266)	1:29:A:LEU:H	1:176:A:LEU:H	6	0.15
(2,1230)	1:109:A:THR:HG1	1:137:A:LEU:HD11	4	0.15
(2,1230)	1:109:A:THR:HG1	1:137:A:LEU:HD12	4	0.15
(2,1230)	1:109:A:THR:HG1	1:137:A:LEU:HD13	4	0.15
(2,1205)	1:101:A:VAL:HG11	2:251:B:BEZ:H6	9	0.15
(2,1205)	1:101:A:VAL:HG12	2:251:B:BEZ:H6	9	0.15
(2,1205)	1:101:A:VAL:HG13	2:251:B:BEZ:H6	9	0.15
(2,1205)	1:101:A:VAL:HG21	2:251:B:BEZ:H6	9	0.15
(2,1205)	1:101:A:VAL:HG22	2:251:B:BEZ:H6	9	0.15
(2,1205)	1:101:A:VAL:HG23	2:251:B:BEZ:H6	9	0.15
(2,1195)	1:65:A:LEU:HD11	2:253:B:LYS:HE2	1	0.15
(2,1195)	1:65:A:LEU:HD11	2:253:B:LYS:HE3	1	0.15
(2,1195)	1:65:A:LEU:HD12	2:253:B:LYS:HE2	1	0.15
(2,1195)	1:65:A:LEU:HD12	2:253:B:LYS:HE3	1	0.15
(2,1195)	1:65:A:LEU:HD13	2:253:B:LYS:HE2	1	0.15
(2,1195)	1:65:A:LEU:HD13	2:253:B:LYS:HE3	1	0.15
(2,1195)	1:65:A:LEU:HD21	2:253:B:LYS:HE2	1	0.15
(2,1195)	1:65:A:LEU:HD21	2:253:B:LYS:HE3	1	0.15
(2,1195)	1:65:A:LEU:HD22	2:253:B:LYS:HE2	1	0.15
(2,1195)	1:65:A:LEU:HD22	2:253:B:LYS:HE3	1	0.15
(2,1195)	1:65:A:LEU:HD23	2:253:B:LYS:HE2	1	0.15
(2,1195)	1:65:A:LEU:HD23	2:253:B:LYS:HE3	1	0.15
(2,1195)	1:65:A:LEU:HD11	2:253:B:LYS:HE2	2	0.15
(2,1195)	1:65:A:LEU:HD11	2:253:B:LYS:HE3	2	0.15
(2,1195)	1:65:A:LEU:HD12	2:253:B:LYS:HE2	2	0.15
(2,1195)	1:65:A:LEU:HD12	2:253:B:LYS:HE3	2	0.15
(2,1195)	1:65:A:LEU:HD13	2:253:B:LYS:HE2	2	0.15
(2,1195)	1:65:A:LEU:HD13	2:253:B:LYS:HE3	2	0.15
(2,1195)	1:65:A:LEU:HD21	2:253:B:LYS:HE2	2	0.15
(2,1195)	1:65:A:LEU:HD21	2:253:B:LYS:HE3	2	0.15
(2,1195)	1:65:A:LEU:HD22	2:253:B:LYS:HE2	2	0.15
(2,1195)	1:65:A:LEU:HD22	2:253:B:LYS:HE3	2	0.15
(2,1195)	1:65:A:LEU:HD23	2:253:B:LYS:HE2	2	0.15
(2,1195)	1:65:A:LEU:HD23	2:253:B:LYS:HE3	2	0.15
(2,1195)	1:65:A:LEU:HD11	2:253:B:LYS:HE2	10	0.15
(2,1195)	1:65:A:LEU:HD11	2:253:B:LYS:HE3	10	0.15
(2,1195)	1:65:A:LEU:HD12	2:253:B:LYS:HE2	10	0.15
(2,1195)	1:65:A:LEU:HD12	2:253:B:LYS:HE3	10	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1195)	1:65:A:LEU:HD13	2:253:B:LYS:HE2	10	0.15
(2,1195)	1:65:A:LEU:HD13	2:253:B:LYS:HE3	10	0.15
(2,1195)	1:65:A:LEU:HD21	2:253:B:LYS:HE2	10	0.15
(2,1195)	1:65:A:LEU:HD21	2:253:B:LYS:HE3	10	0.15
(2,1195)	1:65:A:LEU:HD22	2:253:B:LYS:HE2	10	0.15
(2,1195)	1:65:A:LEU:HD22	2:253:B:LYS:HE3	10	0.15
(2,1195)	1:65:A:LEU:HD23	2:253:B:LYS:HE2	10	0.15
(2,1195)	1:65:A:LEU:HD23	2:253:B:LYS:HE3	10	0.15
(2,1181)	1:109:A:THR:HG1	1:137:A:LEU:HD11	4	0.15
(2,1181)	1:109:A:THR:HG1	1:137:A:LEU:HD12	4	0.15
(2,1181)	1:109:A:THR:HG1	1:137:A:LEU:HD13	4	0.15
(2,1179)	1:118:A:VAL:HG11	2:251:B:BEZ:H4	2	0.15
(2,1179)	1:118:A:VAL:HG12	2:251:B:BEZ:H4	2	0.15
(2,1179)	1:118:A:VAL:HG13	2:251:B:BEZ:H4	2	0.15
(2,1140)	1:233:A:ILE:HD11	1:235:A:ASP:H	4	0.15
(2,1140)	1:233:A:ILE:HD12	1:235:A:ASP:H	4	0.15
(2,1140)	1:233:A:ILE:HD13	1:235:A:ASP:H	4	0.15
(2,1125)	1:224:A:SER:H	1:226:A:ILE:H	1	0.15
(2,1085)	1:214:A:GLY:H	1:224:A:SER:H	2	0.15
(2,1035)	1:201:A:ILE:HD11	1:205:A:GLY:H	7	0.15
(2,1035)	1:201:A:ILE:HD12	1:205:A:GLY:H	7	0.15
(2,1035)	1:201:A:ILE:HD13	1:205:A:GLY:H	7	0.15
(2,1027)	1:200:A:ILE:HD11	1:228:A:GLN:H	4	0.15
(2,1027)	1:200:A:ILE:HD12	1:228:A:GLN:H	4	0.15
(2,1027)	1:200:A:ILE:HD13	1:228:A:GLN:H	4	0.15
(2,886)	1:165:A:LYS:H	1:166:A:ASN:HD21	3	0.15
(2,886)	1:165:A:LYS:H	1:166:A:ASN:HD22	3	0.15
(2,742)	1:144:A:TRP:HE1	1:147:A:GLU:H	4	0.15
(2,742)	1:144:A:TRP:HE1	1:147:A:GLU:H	6	0.15
(2,690)	1:130:A:TRP:HE1	1:138:A:ILE:HD11	9	0.15
(2,690)	1:130:A:TRP:HE1	1:138:A:ILE:HD12	9	0.15
(2,690)	1:130:A:TRP:HE1	1:138:A:ILE:HD13	9	0.15
(2,666)	1:120:A:MET:HE1	1:126:A:ILE:HD11	5	0.15
(2,666)	1:120:A:MET:HE1	1:126:A:ILE:HD12	5	0.15
(2,666)	1:120:A:MET:HE1	1:126:A:ILE:HD13	5	0.15
(2,666)	1:120:A:MET:HE2	1:126:A:ILE:HD11	5	0.15
(2,666)	1:120:A:MET:HE2	1:126:A:ILE:HD12	5	0.15
(2,666)	1:120:A:MET:HE2	1:126:A:ILE:HD13	5	0.15
(2,666)	1:120:A:MET:HE3	1:126:A:ILE:HD11	5	0.15
(2,666)	1:120:A:MET:HE3	1:126:A:ILE:HD12	5	0.15
(2,666)	1:120:A:MET:HE3	1:126:A:ILE:HD13	5	0.15
(2,608)	1:116:A:GLY:H	1:119:A:LEU:HD11	5	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,608)	1:116:A:GLY:H	1:119:A:LEU:HD12	5	0.15
(2,608)	1:116:A:GLY:H	1:119:A:LEU:HD13	5	0.15
(2,608)	1:116:A:GLY:H	1:119:A:LEU:HD21	5	0.15
(2,608)	1:116:A:GLY:H	1:119:A:LEU:HD22	5	0.15
(2,608)	1:116:A:GLY:H	1:119:A:LEU:HD23	5	0.15
(2,601)	1:114:A:THR:HG1	1:119:A:LEU:HD11	3	0.15
(2,601)	1:114:A:THR:HG1	1:119:A:LEU:HD12	3	0.15
(2,601)	1:114:A:THR:HG1	1:119:A:LEU:HD13	3	0.15
(2,601)	1:114:A:THR:HG1	1:119:A:LEU:HD21	3	0.15
(2,601)	1:114:A:THR:HG1	1:119:A:LEU:HD22	3	0.15
(2,601)	1:114:A:THR:HG1	1:119:A:LEU:HD23	3	0.15
(2,588)	1:113:A:VAL:HG11	1:117:A:ALA:H	7	0.15
(2,588)	1:113:A:VAL:HG12	1:117:A:ALA:H	7	0.15
(2,588)	1:113:A:VAL:HG13	1:117:A:ALA:H	7	0.15
(2,588)	1:113:A:VAL:HG21	1:117:A:ALA:H	7	0.15
(2,588)	1:113:A:VAL:HG22	1:117:A:ALA:H	7	0.15
(2,588)	1:113:A:VAL:HG23	1:117:A:ALA:H	7	0.15
(2,520)	1:107:A:PHE:H	1:129:A:SER:HG	7	0.15
(2,439)	1:89:A:LYS:H	1:120:A:MET:HE1	3	0.15
(2,439)	1:89:A:LYS:H	1:120:A:MET:HE2	3	0.15
(2,439)	1:89:A:LYS:H	1:120:A:MET:HE3	3	0.15
(2,439)	1:89:A:LYS:H	1:120:A:MET:HE1	9	0.15
(2,439)	1:89:A:LYS:H	1:120:A:MET:HE2	9	0.15
(2,439)	1:89:A:LYS:H	1:120:A:MET:HE3	9	0.15
(2,384)	1:79:A:LEU:HD11	1:106:A:THR:H	8	0.15
(2,384)	1:79:A:LEU:HD12	1:106:A:THR:H	8	0.15
(2,384)	1:79:A:LEU:HD13	1:106:A:THR:H	8	0.15
(2,384)	1:79:A:LEU:HD21	1:106:A:THR:H	8	0.15
(2,384)	1:79:A:LEU:HD22	1:106:A:THR:H	8	0.15
(2,384)	1:79:A:LEU:HD23	1:106:A:THR:H	8	0.15
(2,369)	1:66:A:TRP:HE1	1:67:A:ASP:H	5	0.15
(2,312)	1:41:A:ILE:H	1:215:A:VAL:HG11	1	0.15
(2,312)	1:41:A:ILE:H	1:215:A:VAL:HG12	1	0.15
(2,312)	1:41:A:ILE:H	1:215:A:VAL:HG13	1	0.15
(2,312)	1:41:A:ILE:H	1:215:A:VAL:HG21	1	0.15
(2,312)	1:41:A:ILE:H	1:215:A:VAL:HG22	1	0.15
(2,312)	1:41:A:ILE:H	1:215:A:VAL:HG23	1	0.15
(2,236)	1:31:A:ILE:H	1:33:A:ILE:HD11	10	0.15
(2,236)	1:31:A:ILE:H	1:33:A:ILE:HD12	10	0.15
(2,236)	1:31:A:ILE:H	1:33:A:ILE:HD13	10	0.15
(2,78)	1:8:A:LEU:HD11	1:85:A:ARG:H	3	0.15
(2,78)	1:8:A:LEU:HD12	1:85:A:ARG:H	3	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,78)	1:8:A:LEU:HD13	1:85:A:ARG:H	3	0.15
(2,78)	1:8:A:LEU:HD21	1:85:A:ARG:H	3	0.15
(2,78)	1:8:A:LEU:HD22	1:85:A:ARG:H	3	0.15
(2,78)	1:8:A:LEU:HD23	1:85:A:ARG:H	3	0.15
(2,50)	1:6:A:LEU:HD11	2:253:B:LYS:HD2	2	0.15
(2,50)	1:6:A:LEU:HD11	2:253:B:LYS:HD3	2	0.15
(2,50)	1:6:A:LEU:HD12	2:253:B:LYS:HD2	2	0.15
(2,50)	1:6:A:LEU:HD12	2:253:B:LYS:HD3	2	0.15
(2,50)	1:6:A:LEU:HD13	2:253:B:LYS:HD2	2	0.15
(2,50)	1:6:A:LEU:HD13	2:253:B:LYS:HD3	2	0.15
(2,50)	1:6:A:LEU:HD21	2:253:B:LYS:HD2	2	0.15
(2,50)	1:6:A:LEU:HD21	2:253:B:LYS:HD3	2	0.15
(2,50)	1:6:A:LEU:HD22	2:253:B:LYS:HD2	2	0.15
(2,50)	1:6:A:LEU:HD22	2:253:B:LYS:HD3	2	0.15
(2,50)	1:6:A:LEU:HD23	2:253:B:LYS:HD2	2	0.15
(2,50)	1:6:A:LEU:HD23	2:253:B:LYS:HD3	2	0.15
(1,260)	1:99:A:ALA:H	1:196:A:SER:O	9	0.15
(1,224)	1:88:A:GLN:H	1:95:A:SER:O	1	0.15
(1,222)	1:88:A:GLN:O	1:95:A:SER:H	3	0.15
(1,222)	1:88:A:GLN:O	1:95:A:SER:H	4	0.15
(1,219)	1:86:A:ILE:O	1:98:A:GLY:N	2	0.15
(1,219)	1:86:A:ILE:O	1:98:A:GLY:N	10	0.15
(1,218)	1:86:A:ILE:O	1:98:A:GLY:H	1	0.15
(1,218)	1:86:A:ILE:O	1:98:A:GLY:H	10	0.15
(1,216)	1:86:A:ILE:H	1:98:A:GLY:O	10	0.15
(1,210)	1:82:A:GLY:O	1:102:A:TYR:H	9	0.15
(1,200)	1:9:A:GLU:H	1:85:A:ARG:O	1	0.15
(1,200)	1:9:A:GLU:H	1:85:A:ARG:O	3	0.15
(1,186)	1:119:A:LEU:H	1:126:A:ILE:O	5	0.15
(1,160)	1:177:A:PHE:O	1:184:A:ILE:H	8	0.15
(1,137)	1:8:A:LEU:N	1:120:A:MET:O	9	0.15
(1,9)	1:34:A:SER:O	1:38:A:SER:H	6	0.15
(1,3)	1:8:A:LEU:H	1:120:A:MET:O	4	0.15
(2,1432)	1:108:A:HIS:CD2	1:144:A:TRP:CE3	7	0.14
(2,1385)	1:32:A:THR:CG2	1:42:A:LYS:CD	7	0.14
(2,1383)	1:32:A:THR:CG2	1:42:A:LYS:CB	5	0.14
(2,1371)	1:187:A:VAL:HG11	1:226:A:ILE:HD11	10	0.14
(2,1371)	1:187:A:VAL:HG11	1:226:A:ILE:HD12	10	0.14
(2,1371)	1:187:A:VAL:HG11	1:226:A:ILE:HD13	10	0.14
(2,1371)	1:187:A:VAL:HG12	1:226:A:ILE:HD11	10	0.14
(2,1371)	1:187:A:VAL:HG12	1:226:A:ILE:HD12	10	0.14
(2,1371)	1:187:A:VAL:HG12	1:226:A:ILE:HD13	10	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1371)	1:187:A:VAL:HG13	1:226:A:ILE:HD11	10	0.14
(2,1371)	1:187:A:VAL:HG13	1:226:A:ILE:HD12	10	0.14
(2,1371)	1:187:A:VAL:HG13	1:226:A:ILE:HD13	10	0.14
(2,1316)	1:30:A:SER:H	1:178:A:LYS:H	9	0.14
(2,1266)	1:29:A:LEU:H	1:176:A:LEU:H	3	0.14
(2,1265)	1:21:A:GLU:H	1:170:A:VAL:HG21	10	0.14
(2,1265)	1:21:A:GLU:H	1:170:A:VAL:HG22	10	0.14
(2,1265)	1:21:A:GLU:H	1:170:A:VAL:HG23	10	0.14
(2,1252)	1:6:A:LEU:H	1:118:A:VAL:HG21	1	0.14
(2,1252)	1:6:A:LEU:H	1:118:A:VAL:HG22	1	0.14
(2,1252)	1:6:A:LEU:H	1:118:A:VAL:HG23	1	0.14
(2,1229)	1:97:A:ILE:HD11	1:109:A:THR:HG1	5	0.14
(2,1229)	1:97:A:ILE:HD12	1:109:A:THR:HG1	5	0.14
(2,1229)	1:97:A:ILE:HD13	1:109:A:THR:HG1	5	0.14
(2,1195)	1:65:A:LEU:HD11	2:253:B:LYS:HE2	8	0.14
(2,1195)	1:65:A:LEU:HD11	2:253:B:LYS:HE3	8	0.14
(2,1195)	1:65:A:LEU:HD12	2:253:B:LYS:HE2	8	0.14
(2,1195)	1:65:A:LEU:HD12	2:253:B:LYS:HE3	8	0.14
(2,1195)	1:65:A:LEU:HD13	2:253:B:LYS:HE2	8	0.14
(2,1195)	1:65:A:LEU:HD13	2:253:B:LYS:HE3	8	0.14
(2,1195)	1:65:A:LEU:HD21	2:253:B:LYS:HE2	8	0.14
(2,1195)	1:65:A:LEU:HD21	2:253:B:LYS:HE3	8	0.14
(2,1195)	1:65:A:LEU:HD22	2:253:B:LYS:HE2	8	0.14
(2,1195)	1:65:A:LEU:HD22	2:253:B:LYS:HE3	8	0.14
(2,1195)	1:65:A:LEU:HD23	2:253:B:LYS:HE2	8	0.14
(2,1195)	1:65:A:LEU:HD23	2:253:B:LYS:HE3	8	0.14
(2,1191)	1:65:A:LEU:HD11	2:251:B:BEZ:H6	4	0.14
(2,1191)	1:65:A:LEU:HD12	2:251:B:BEZ:H6	4	0.14
(2,1191)	1:65:A:LEU:HD13	2:251:B:BEZ:H6	4	0.14
(2,1191)	1:65:A:LEU:HD21	2:251:B:BEZ:H6	4	0.14
(2,1191)	1:65:A:LEU:HD22	2:251:B:BEZ:H6	4	0.14
(2,1191)	1:65:A:LEU:HD23	2:251:B:BEZ:H6	4	0.14
(2,1176)	1:97:A:ILE:HD11	1:109:A:THR:HG1	5	0.14
(2,1176)	1:97:A:ILE:HD12	1:109:A:THR:HG1	5	0.14
(2,1176)	1:97:A:ILE:HD13	1:109:A:THR:HG1	5	0.14
(2,1059)	1:207:A:VAL:HG11	1:208:A:VAL:HG11	8	0.14
(2,1059)	1:207:A:VAL:HG11	1:208:A:VAL:HG12	8	0.14
(2,1059)	1:207:A:VAL:HG11	1:208:A:VAL:HG13	8	0.14
(2,1059)	1:207:A:VAL:HG11	1:208:A:VAL:HG21	8	0.14
(2,1059)	1:207:A:VAL:HG11	1:208:A:VAL:HG22	8	0.14
(2,1059)	1:207:A:VAL:HG11	1:208:A:VAL:HG23	8	0.14
(2,1059)	1:207:A:VAL:HG12	1:208:A:VAL:HG11	8	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1059)	1:207:A:VAL:HG12	1:208:A:VAL:HG12	8	0.14
(2,1059)	1:207:A:VAL:HG12	1:208:A:VAL:HG13	8	0.14
(2,1059)	1:207:A:VAL:HG12	1:208:A:VAL:HG21	8	0.14
(2,1059)	1:207:A:VAL:HG12	1:208:A:VAL:HG22	8	0.14
(2,1059)	1:207:A:VAL:HG12	1:208:A:VAL:HG23	8	0.14
(2,1059)	1:207:A:VAL:HG13	1:208:A:VAL:HG11	8	0.14
(2,1059)	1:207:A:VAL:HG13	1:208:A:VAL:HG12	8	0.14
(2,1059)	1:207:A:VAL:HG13	1:208:A:VAL:HG13	8	0.14
(2,1059)	1:207:A:VAL:HG13	1:208:A:VAL:HG21	8	0.14
(2,1059)	1:207:A:VAL:HG13	1:208:A:VAL:HG22	8	0.14
(2,1059)	1:207:A:VAL:HG13	1:208:A:VAL:HG23	8	0.14
(2,1059)	1:207:A:VAL:HG21	1:208:A:VAL:HG11	8	0.14
(2,1059)	1:207:A:VAL:HG21	1:208:A:VAL:HG12	8	0.14
(2,1059)	1:207:A:VAL:HG21	1:208:A:VAL:HG13	8	0.14
(2,1059)	1:207:A:VAL:HG21	1:208:A:VAL:HG21	8	0.14
(2,1059)	1:207:A:VAL:HG21	1:208:A:VAL:HG22	8	0.14
(2,1059)	1:207:A:VAL:HG21	1:208:A:VAL:HG23	8	0.14
(2,1059)	1:207:A:VAL:HG22	1:208:A:VAL:HG11	8	0.14
(2,1059)	1:207:A:VAL:HG22	1:208:A:VAL:HG12	8	0.14
(2,1059)	1:207:A:VAL:HG22	1:208:A:VAL:HG13	8	0.14
(2,1059)	1:207:A:VAL:HG22	1:208:A:VAL:HG21	8	0.14
(2,1059)	1:207:A:VAL:HG22	1:208:A:VAL:HG22	8	0.14
(2,1059)	1:207:A:VAL:HG22	1:208:A:VAL:HG23	8	0.14
(2,1059)	1:207:A:VAL:HG23	1:208:A:VAL:HG11	8	0.14
(2,1059)	1:207:A:VAL:HG23	1:208:A:VAL:HG12	8	0.14
(2,1059)	1:207:A:VAL:HG23	1:208:A:VAL:HG13	8	0.14
(2,1059)	1:207:A:VAL:HG23	1:208:A:VAL:HG21	8	0.14
(2,1059)	1:207:A:VAL:HG23	1:208:A:VAL:HG22	8	0.14
(2,1059)	1:207:A:VAL:HG23	1:208:A:VAL:HG23	8	0.14
(2,959)	1:187:A:VAL:H	1:200:A:ILE:HD11	10	0.14
(2,959)	1:187:A:VAL:H	1:200:A:ILE:HD12	10	0.14
(2,959)	1:187:A:VAL:H	1:200:A:ILE:HD13	10	0.14
(2,827)	1:157:A:GLN:H	1:200:A:ILE:HD11	5	0.14
(2,827)	1:157:A:GLN:H	1:200:A:ILE:HD12	5	0.14
(2,827)	1:157:A:GLN:H	1:200:A:ILE:HD13	5	0.14
(2,786)	1:150:A:TRP:H	1:207:A:VAL:HG11	4	0.14
(2,786)	1:150:A:TRP:H	1:207:A:VAL:HG12	4	0.14
(2,786)	1:150:A:TRP:H	1:207:A:VAL:HG13	4	0.14
(2,786)	1:150:A:TRP:H	1:207:A:VAL:HG21	4	0.14
(2,786)	1:150:A:TRP:H	1:207:A:VAL:HG22	4	0.14
(2,786)	1:150:A:TRP:H	1:207:A:VAL:HG23	4	0.14
(2,742)	1:144:A:TRP:HE1	1:147:A:GLU:H	1	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,740)	1:144:A:TRP:HE1	1:146:A:LEU:H	6	0.14
(2,690)	1:130:A:TRP:HE1	1:138:A:ILE:HD11	1	0.14
(2,690)	1:130:A:TRP:HE1	1:138:A:ILE:HD12	1	0.14
(2,690)	1:130:A:TRP:HE1	1:138:A:ILE:HD13	1	0.14
(2,689)	1:130:A:TRP:HE1	1:133:A:VAL:HG11	10	0.14
(2,689)	1:130:A:TRP:HE1	1:133:A:VAL:HG12	10	0.14
(2,689)	1:130:A:TRP:HE1	1:133:A:VAL:HG13	10	0.14
(2,689)	1:130:A:TRP:HE1	1:133:A:VAL:HG21	10	0.14
(2,689)	1:130:A:TRP:HE1	1:133:A:VAL:HG22	10	0.14
(2,689)	1:130:A:TRP:HE1	1:133:A:VAL:HG23	10	0.14
(2,480)	1:98:A:GLY:H	2:251:B:BEZ:H6	10	0.14
(2,421)	1:86:A:ILE:HD11	2:251:B:BEZ:H6	10	0.14
(2,421)	1:86:A:ILE:HD12	2:251:B:BEZ:H6	10	0.14
(2,421)	1:86:A:ILE:HD13	2:251:B:BEZ:H6	10	0.14
(2,355)	1:64:A:VAL:HG11	1:95:A:SER:H	10	0.14
(2,355)	1:64:A:VAL:HG12	1:95:A:SER:H	10	0.14
(2,355)	1:64:A:VAL:HG13	1:95:A:SER:H	10	0.14
(2,355)	1:64:A:VAL:HG21	1:95:A:SER:H	10	0.14
(2,355)	1:64:A:VAL:HG22	1:95:A:SER:H	10	0.14
(2,355)	1:64:A:VAL:HG23	1:95:A:SER:H	10	0.14
(2,350)	1:64:A:VAL:H	1:66:A:TRP:H	5	0.14
(2,339)	1:51:A:GLY:H	1:161:A:LEU:HD11	4	0.14
(2,339)	1:51:A:GLY:H	1:161:A:LEU:HD12	4	0.14
(2,339)	1:51:A:GLY:H	1:161:A:LEU:HD13	4	0.14
(2,339)	1:51:A:GLY:H	1:161:A:LEU:HD21	4	0.14
(2,339)	1:51:A:GLY:H	1:161:A:LEU:HD22	4	0.14
(2,339)	1:51:A:GLY:H	1:161:A:LEU:HD23	4	0.14
(2,326)	1:48:A:GLN:H	2:253:B:LYS:HD2	5	0.14
(2,326)	1:48:A:GLN:H	2:253:B:LYS:HD3	5	0.14
(2,319)	1:41:A:ILE:HD11	1:219:A:SER:H	8	0.14
(2,319)	1:41:A:ILE:HD12	1:219:A:SER:H	8	0.14
(2,319)	1:41:A:ILE:HD13	1:219:A:SER:H	8	0.14
(2,236)	1:31:A:ILE:H	1:33:A:ILE:HD11	5	0.14
(2,236)	1:31:A:ILE:H	1:33:A:ILE:HD12	5	0.14
(2,236)	1:31:A:ILE:H	1:33:A:ILE:HD13	5	0.14
(2,141)	1:16:A:TRP:HE1	1:17:A:GLU:H	2	0.14
(2,141)	1:16:A:TRP:HE1	1:17:A:GLU:H	9	0.14
(2,82)	1:8:A:LEU:HD11	1:101:A:VAL:H	4	0.14
(2,82)	1:8:A:LEU:HD12	1:101:A:VAL:H	4	0.14
(2,82)	1:8:A:LEU:HD13	1:101:A:VAL:H	4	0.14
(2,82)	1:8:A:LEU:HD21	1:101:A:VAL:H	4	0.14
(2,82)	1:8:A:LEU:HD22	1:101:A:VAL:H	4	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,82)	1:8:A:LEU:HD23	1:101:A:VAL:H	4	0.14
(1,262)	1:195:A:THR:O	1:198:A:SER:H	3	0.14
(1,262)	1:195:A:THR:O	1:198:A:SER:H	4	0.14
(1,254)	1:210:A:LEU:O	1:227:A:ALA:H	6	0.14
(1,254)	1:210:A:LEU:O	1:227:A:ALA:H	7	0.14
(1,236)	1:200:A:ILE:O	1:209:A:GLY:H	9	0.14
(1,234)	1:202:A:ASP:H	1:206:A:LYS:O	8	0.14
(1,232)	1:157:A:GLN:H	1:201:A:ILE:O	1	0.14
(1,222)	1:88:A:GLN:O	1:95:A:SER:H	2	0.14
(1,221)	1:86:A:ILE:O	1:97:A:ILE:N	7	0.14
(1,219)	1:86:A:ILE:O	1:98:A:GLY:N	1	0.14
(1,218)	1:86:A:ILE:O	1:98:A:GLY:H	4	0.14
(1,208)	1:82:A:GLY:H	1:102:A:TYR:O	7	0.14
(1,200)	1:9:A:GLU:H	1:85:A:ARG:O	8	0.14
(1,196)	1:7:A:GLU:H	1:87:A:LYS:O	1	0.14
(1,194)	1:7:A:GLU:O	1:87:A:LYS:H	1	0.14
(1,192)	1:5:A:ASP:O	1:89:A:LYS:H	6	0.14
(1,192)	1:5:A:ASP:O	1:89:A:LYS:H	7	0.14
(1,176)	1:132:A:ASP:O	1:137:A:LEU:H	2	0.14
(1,172)	1:217:A:THR:O	1:221:A:ALA:H	4	0.14
(1,158)	1:179:A:THR:H	1:182:A:GLY:O	9	0.14
(1,142)	1:34:A:SER:O	1:38:A:SER:H	5	0.14
(1,140)	1:32:A:THR:H	1:40:A:SER:O	6	0.14
(1,137)	1:8:A:LEU:N	1:120:A:MET:O	2	0.14
(1,107)	1:200:A:ILE:O	1:208:A:VAL:H	1	0.14
(1,3)	1:8:A:LEU:H	1:120:A:MET:O	9	0.14
(2,1410)	1:66:A:TRP:CD1	1:122:A:LYS:CE	6	0.13
(2,1404)	1:66:A:TRP:CG	1:122:A:LYS:CD	9	0.13
(2,1397)	1:64:A:VAL:C	1:122:A:LYS:CE	10	0.13
(2,1391)	1:64:A:VAL:CB	1:122:A:LYS:CD	4	0.13
(2,1382)	1:16:A:TRP:CE3	1:202:A:ASP:C	3	0.13
(2,1381)	1:14:A:VAL:CG1	1:201:A:ILE:CD1	5	0.13
(2,1370)	1:31:A:ILE:HD11	1:215:A:VAL:HG21	6	0.13
(2,1370)	1:31:A:ILE:HD11	1:215:A:VAL:HG22	6	0.13
(2,1370)	1:31:A:ILE:HD11	1:215:A:VAL:HG23	6	0.13
(2,1370)	1:31:A:ILE:HD12	1:215:A:VAL:HG21	6	0.13
(2,1370)	1:31:A:ILE:HD12	1:215:A:VAL:HG22	6	0.13
(2,1370)	1:31:A:ILE:HD12	1:215:A:VAL:HG23	6	0.13
(2,1370)	1:31:A:ILE:HD13	1:215:A:VAL:HG21	6	0.13
(2,1370)	1:31:A:ILE:HD13	1:215:A:VAL:HG22	6	0.13
(2,1370)	1:31:A:ILE:HD13	1:215:A:VAL:HG23	6	0.13
(2,1351)	1:33:A:ILE:HD11	1:39:A:MET:HE1	5	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1351)	1:33:A:ILE:HD11	1:39:A:MET:HE2	5	0.13
(2,1351)	1:33:A:ILE:HD11	1:39:A:MET:HE3	5	0.13
(2,1351)	1:33:A:ILE:HD12	1:39:A:MET:HE1	5	0.13
(2,1351)	1:33:A:ILE:HD12	1:39:A:MET:HE2	5	0.13
(2,1351)	1:33:A:ILE:HD12	1:39:A:MET:HE3	5	0.13
(2,1351)	1:33:A:ILE:HD13	1:39:A:MET:HE1	5	0.13
(2,1351)	1:33:A:ILE:HD13	1:39:A:MET:HE2	5	0.13
(2,1351)	1:33:A:ILE:HD13	1:39:A:MET:HE3	5	0.13
(2,1345)	1:6:A:LEU:HD21	1:119:A:LEU:HD11	3	0.13
(2,1345)	1:6:A:LEU:HD21	1:119:A:LEU:HD12	3	0.13
(2,1345)	1:6:A:LEU:HD21	1:119:A:LEU:HD13	3	0.13
(2,1345)	1:6:A:LEU:HD22	1:119:A:LEU:HD11	3	0.13
(2,1345)	1:6:A:LEU:HD22	1:119:A:LEU:HD12	3	0.13
(2,1345)	1:6:A:LEU:HD22	1:119:A:LEU:HD13	3	0.13
(2,1345)	1:6:A:LEU:HD23	1:119:A:LEU:HD11	3	0.13
(2,1345)	1:6:A:LEU:HD23	1:119:A:LEU:HD12	3	0.13
(2,1345)	1:6:A:LEU:HD23	1:119:A:LEU:HD13	3	0.13
(2,1316)	1:30:A:SER:H	1:178:A:LYS:H	3	0.13
(2,1308)	1:22:A:ILE:H	1:171:A:GLN:H	3	0.13
(2,1266)	1:29:A:LEU:H	1:176:A:LEU:H	1	0.13
(2,1205)	1:101:A:VAL:HG11	2:251:B:BEZ:H6	10	0.13
(2,1205)	1:101:A:VAL:HG12	2:251:B:BEZ:H6	10	0.13
(2,1205)	1:101:A:VAL:HG13	2:251:B:BEZ:H6	10	0.13
(2,1205)	1:101:A:VAL:HG21	2:251:B:BEZ:H6	10	0.13
(2,1205)	1:101:A:VAL:HG22	2:251:B:BEZ:H6	10	0.13
(2,1205)	1:101:A:VAL:HG23	2:251:B:BEZ:H6	10	0.13
(2,1198)	1:68:A:VAL:HG11	2:252:B:NLE:HD2	1	0.13
(2,1198)	1:68:A:VAL:HG11	2:252:B:NLE:HD3	1	0.13
(2,1198)	1:68:A:VAL:HG12	2:252:B:NLE:HD2	1	0.13
(2,1198)	1:68:A:VAL:HG12	2:252:B:NLE:HD3	1	0.13
(2,1198)	1:68:A:VAL:HG13	2:252:B:NLE:HD2	1	0.13
(2,1198)	1:68:A:VAL:HG13	2:252:B:NLE:HD3	1	0.13
(2,1198)	1:68:A:VAL:HG21	2:252:B:NLE:HD2	1	0.13
(2,1198)	1:68:A:VAL:HG21	2:252:B:NLE:HD3	1	0.13
(2,1198)	1:68:A:VAL:HG22	2:252:B:NLE:HD2	1	0.13
(2,1198)	1:68:A:VAL:HG22	2:252:B:NLE:HD3	1	0.13
(2,1198)	1:68:A:VAL:HG23	2:252:B:NLE:HD2	1	0.13
(2,1198)	1:68:A:VAL:HG23	2:252:B:NLE:HD3	1	0.13
(2,1180)	1:118:A:VAL:HG21	2:251:B:BEZ:H4	4	0.13
(2,1180)	1:118:A:VAL:HG22	2:251:B:BEZ:H4	4	0.13
(2,1180)	1:118:A:VAL:HG23	2:251:B:BEZ:H4	4	0.13
(2,1174)	1:50:A:LEU:HD21	2:251:B:BEZ:H5	10	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1174)	1:50:A:LEU:HD22	2:251:B:BEZ:H5	10	0.13
(2,1174)	1:50:A:LEU:HD23	2:251:B:BEZ:H5	10	0.13
(2,1125)	1:224:A:SER:H	1:226:A:ILE:H	7	0.13
(2,1096)	1:215:A:VAL:HG11	1:220:A:GLY:H	6	0.13
(2,1096)	1:215:A:VAL:HG12	1:220:A:GLY:H	6	0.13
(2,1096)	1:215:A:VAL:HG13	1:220:A:GLY:H	6	0.13
(2,1096)	1:215:A:VAL:HG21	1:220:A:GLY:H	6	0.13
(2,1096)	1:215:A:VAL:HG22	1:220:A:GLY:H	6	0.13
(2,1096)	1:215:A:VAL:HG23	1:220:A:GLY:H	6	0.13
(2,991)	1:191:A:PHE:H	1:192:A:SER:HG	3	0.13
(2,796)	1:150:A:TRP:HE1	1:200:A:ILE:HD11	9	0.13
(2,796)	1:150:A:TRP:HE1	1:200:A:ILE:HD12	9	0.13
(2,796)	1:150:A:TRP:HE1	1:200:A:ILE:HD13	9	0.13
(2,777)	1:149:A:GLU:H	1:207:A:VAL:H	4	0.13
(2,777)	1:149:A:GLU:H	1:207:A:VAL:H	7	0.13
(2,641)	1:119:A:LEU:HD11	2:252:B:NLE:HE1	4	0.13
(2,641)	1:119:A:LEU:HD11	2:252:B:NLE:HE2	4	0.13
(2,641)	1:119:A:LEU:HD11	2:252:B:NLE:HE3	4	0.13
(2,641)	1:119:A:LEU:HD12	2:252:B:NLE:HE1	4	0.13
(2,641)	1:119:A:LEU:HD12	2:252:B:NLE:HE2	4	0.13
(2,641)	1:119:A:LEU:HD12	2:252:B:NLE:HE3	4	0.13
(2,641)	1:119:A:LEU:HD13	2:252:B:NLE:HE1	4	0.13
(2,641)	1:119:A:LEU:HD13	2:252:B:NLE:HE2	4	0.13
(2,641)	1:119:A:LEU:HD13	2:252:B:NLE:HE3	4	0.13
(2,641)	1:119:A:LEU:HD21	2:252:B:NLE:HE1	4	0.13
(2,641)	1:119:A:LEU:HD21	2:252:B:NLE:HE2	4	0.13
(2,641)	1:119:A:LEU:HD21	2:252:B:NLE:HE3	4	0.13
(2,641)	1:119:A:LEU:HD22	2:252:B:NLE:HE1	4	0.13
(2,641)	1:119:A:LEU:HD22	2:252:B:NLE:HE2	4	0.13
(2,641)	1:119:A:LEU:HD22	2:252:B:NLE:HE3	4	0.13
(2,641)	1:119:A:LEU:HD23	2:252:B:NLE:HE1	4	0.13
(2,641)	1:119:A:LEU:HD23	2:252:B:NLE:HE2	4	0.13
(2,641)	1:119:A:LEU:HD23	2:252:B:NLE:HE3	4	0.13
(2,555)	1:110:A:MET:HE1	1:198:A:SER:H	8	0.13
(2,555)	1:110:A:MET:HE2	1:198:A:SER:H	8	0.13
(2,555)	1:110:A:MET:HE3	1:198:A:SER:H	8	0.13
(2,471)	1:97:A:ILE:HD11	1:114:A:THR:HG1	10	0.13
(2,471)	1:97:A:ILE:HD12	1:114:A:THR:HG1	10	0.13
(2,471)	1:97:A:ILE:HD13	1:114:A:THR:HG1	10	0.13
(2,452)	1:91:A:ILE:HD11	1:95:A:SER:H	10	0.13
(2,452)	1:91:A:ILE:HD12	1:95:A:SER:H	10	0.13
(2,452)	1:91:A:ILE:HD13	1:95:A:SER:H	10	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,439)	1:89:A:LYS:H	1:120:A:MET:HE1	6	0.13
(2,439)	1:89:A:LYS:H	1:120:A:MET:HE2	6	0.13
(2,439)	1:89:A:LYS:H	1:120:A:MET:HE3	6	0.13
(2,421)	1:86:A:ILE:HD11	2:251:B:BEZ:H6	4	0.13
(2,421)	1:86:A:ILE:HD12	2:251:B:BEZ:H6	4	0.13
(2,421)	1:86:A:ILE:HD13	2:251:B:BEZ:H6	4	0.13
(2,385)	1:79:A:LEU:HD11	1:126:A:ILE:HD11	6	0.13
(2,385)	1:79:A:LEU:HD11	1:126:A:ILE:HD12	6	0.13
(2,385)	1:79:A:LEU:HD11	1:126:A:ILE:HD13	6	0.13
(2,385)	1:79:A:LEU:HD12	1:126:A:ILE:HD11	6	0.13
(2,385)	1:79:A:LEU:HD12	1:126:A:ILE:HD12	6	0.13
(2,385)	1:79:A:LEU:HD12	1:126:A:ILE:HD13	6	0.13
(2,385)	1:79:A:LEU:HD13	1:126:A:ILE:HD11	6	0.13
(2,385)	1:79:A:LEU:HD13	1:126:A:ILE:HD12	6	0.13
(2,385)	1:79:A:LEU:HD13	1:126:A:ILE:HD13	6	0.13
(2,385)	1:79:A:LEU:HD21	1:126:A:ILE:HD11	6	0.13
(2,385)	1:79:A:LEU:HD21	1:126:A:ILE:HD12	6	0.13
(2,385)	1:79:A:LEU:HD21	1:126:A:ILE:HD13	6	0.13
(2,385)	1:79:A:LEU:HD22	1:126:A:ILE:HD11	6	0.13
(2,385)	1:79:A:LEU:HD22	1:126:A:ILE:HD12	6	0.13
(2,385)	1:79:A:LEU:HD22	1:126:A:ILE:HD13	6	0.13
(2,385)	1:79:A:LEU:HD23	1:126:A:ILE:HD11	6	0.13
(2,385)	1:79:A:LEU:HD23	1:126:A:ILE:HD12	6	0.13
(2,385)	1:79:A:LEU:HD23	1:126:A:ILE:HD13	6	0.13
(2,321)	1:41:A:ILE:HD11	1:221:A:ALA:H	1	0.13
(2,321)	1:41:A:ILE:HD12	1:221:A:ALA:H	1	0.13
(2,321)	1:41:A:ILE:HD13	1:221:A:ALA:H	1	0.13
(2,321)	1:41:A:ILE:HD11	1:221:A:ALA:H	7	0.13
(2,321)	1:41:A:ILE:HD12	1:221:A:ALA:H	7	0.13
(2,321)	1:41:A:ILE:HD13	1:221:A:ALA:H	7	0.13
(2,302)	1:39:A:MET:HE1	1:217:A:THR:HG1	8	0.13
(2,302)	1:39:A:MET:HE2	1:217:A:THR:HG1	8	0.13
(2,302)	1:39:A:MET:HE3	1:217:A:THR:HG1	8	0.13
(2,296)	1:39:A:MET:HE1	1:41:A:ILE:H	9	0.13
(2,296)	1:39:A:MET:HE2	1:41:A:ILE:H	9	0.13
(2,296)	1:39:A:MET:HE3	1:41:A:ILE:H	9	0.13
(2,146)	1:16:A:TRP:HE1	1:170:A:VAL:HG11	6	0.13
(2,146)	1:16:A:TRP:HE1	1:170:A:VAL:HG12	6	0.13
(2,146)	1:16:A:TRP:HE1	1:170:A:VAL:HG13	6	0.13
(2,146)	1:16:A:TRP:HE1	1:170:A:VAL:HG21	6	0.13
(2,146)	1:16:A:TRP:HE1	1:170:A:VAL:HG22	6	0.13
(2,146)	1:16:A:TRP:HE1	1:170:A:VAL:HG23	6	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,75)	1:8:A:LEU:HD11	1:68:A:VAL:HG11	10	0.13
(2,75)	1:8:A:LEU:HD11	1:68:A:VAL:HG12	10	0.13
(2,75)	1:8:A:LEU:HD11	1:68:A:VAL:HG13	10	0.13
(2,75)	1:8:A:LEU:HD11	1:68:A:VAL:HG21	10	0.13
(2,75)	1:8:A:LEU:HD11	1:68:A:VAL:HG22	10	0.13
(2,75)	1:8:A:LEU:HD11	1:68:A:VAL:HG23	10	0.13
(2,75)	1:8:A:LEU:HD12	1:68:A:VAL:HG11	10	0.13
(2,75)	1:8:A:LEU:HD12	1:68:A:VAL:HG12	10	0.13
(2,75)	1:8:A:LEU:HD12	1:68:A:VAL:HG13	10	0.13
(2,75)	1:8:A:LEU:HD12	1:68:A:VAL:HG21	10	0.13
(2,75)	1:8:A:LEU:HD12	1:68:A:VAL:HG22	10	0.13
(2,75)	1:8:A:LEU:HD12	1:68:A:VAL:HG23	10	0.13
(2,75)	1:8:A:LEU:HD13	1:68:A:VAL:HG11	10	0.13
(2,75)	1:8:A:LEU:HD13	1:68:A:VAL:HG12	10	0.13
(2,75)	1:8:A:LEU:HD13	1:68:A:VAL:HG13	10	0.13
(2,75)	1:8:A:LEU:HD13	1:68:A:VAL:HG21	10	0.13
(2,75)	1:8:A:LEU:HD13	1:68:A:VAL:HG22	10	0.13
(2,75)	1:8:A:LEU:HD13	1:68:A:VAL:HG23	10	0.13
(2,75)	1:8:A:LEU:HD21	1:68:A:VAL:HG11	10	0.13
(2,75)	1:8:A:LEU:HD21	1:68:A:VAL:HG12	10	0.13
(2,75)	1:8:A:LEU:HD21	1:68:A:VAL:HG13	10	0.13
(2,75)	1:8:A:LEU:HD21	1:68:A:VAL:HG21	10	0.13
(2,75)	1:8:A:LEU:HD21	1:68:A:VAL:HG22	10	0.13
(2,75)	1:8:A:LEU:HD21	1:68:A:VAL:HG23	10	0.13
(2,75)	1:8:A:LEU:HD22	1:68:A:VAL:HG11	10	0.13
(2,75)	1:8:A:LEU:HD22	1:68:A:VAL:HG12	10	0.13
(2,75)	1:8:A:LEU:HD22	1:68:A:VAL:HG13	10	0.13
(2,75)	1:8:A:LEU:HD22	1:68:A:VAL:HG21	10	0.13
(2,75)	1:8:A:LEU:HD22	1:68:A:VAL:HG22	10	0.13
(2,75)	1:8:A:LEU:HD22	1:68:A:VAL:HG23	10	0.13
(2,75)	1:8:A:LEU:HD23	1:68:A:VAL:HG11	10	0.13
(2,75)	1:8:A:LEU:HD23	1:68:A:VAL:HG12	10	0.13
(2,75)	1:8:A:LEU:HD23	1:68:A:VAL:HG13	10	0.13
(2,75)	1:8:A:LEU:HD23	1:68:A:VAL:HG21	10	0.13
(2,75)	1:8:A:LEU:HD23	1:68:A:VAL:HG22	10	0.13
(2,75)	1:8:A:LEU:HD23	1:68:A:VAL:HG23	10	0.13
(2,16)	1:5:A:ASP:H	1:6:A:LEU:HD11	9	0.13
(2,16)	1:5:A:ASP:H	1:6:A:LEU:HD12	9	0.13
(2,16)	1:5:A:ASP:H	1:6:A:LEU:HD13	9	0.13
(2,16)	1:5:A:ASP:H	1:6:A:LEU:HD21	9	0.13
(2,16)	1:5:A:ASP:H	1:6:A:LEU:HD22	9	0.13
(2,16)	1:5:A:ASP:H	1:6:A:LEU:HD23	9	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,10)	1:4:A:ALA:H	1:120:A:MET:HG2	7	0.13
(2,10)	1:4:A:ALA:H	1:120:A:MET:HG3	7	0.13
(2,4)	1:3:A:ALA:H	1:114:A:THR:HG1	4	0.13
(1,262)	1:195:A:THR:O	1:198:A:SER:H	8	0.13
(1,242)	1:103:A:LYS:O	1:106:A:THR:H	8	0.13
(1,240)	1:200:A:ILE:O	1:208:A:VAL:H	3	0.13
(1,240)	1:200:A:ILE:O	1:208:A:VAL:H	6	0.13
(1,240)	1:200:A:ILE:O	1:208:A:VAL:H	7	0.13
(1,232)	1:157:A:GLN:H	1:201:A:ILE:O	6	0.13
(1,222)	1:88:A:GLN:O	1:95:A:SER:H	1	0.13
(1,222)	1:88:A:GLN:O	1:95:A:SER:H	9	0.13
(1,208)	1:82:A:GLY:H	1:102:A:TYR:O	1	0.13
(1,200)	1:9:A:GLU:H	1:85:A:ARG:O	4	0.13
(1,200)	1:9:A:GLU:H	1:85:A:ARG:O	5	0.13
(1,195)	1:7:A:GLU:O	1:87:A:LYS:N	1	0.13
(1,194)	1:7:A:GLU:O	1:87:A:LYS:H	7	0.13
(1,193)	1:5:A:ASP:O	1:89:A:LYS:N	7	0.13
(1,192)	1:5:A:ASP:O	1:89:A:LYS:H	10	0.13
(1,188)	1:121:A:HIS:O	1:124:A:LYS:H	2	0.13
(1,186)	1:119:A:LEU:H	1:126:A:ILE:O	10	0.13
(1,176)	1:132:A:ASP:O	1:137:A:LEU:H	4	0.13
(1,169)	1:215:A:VAL:O	1:223:A:VAL:N	10	0.13
(1,168)	1:215:A:VAL:O	1:223:A:VAL:H	5	0.13
(1,160)	1:177:A:PHE:O	1:184:A:ILE:H	10	0.13
(1,148)	1:160:A:ALA:O	1:168:A:ARG:H	4	0.13
(1,142)	1:34:A:SER:O	1:38:A:SER:H	1	0.13
(1,142)	1:34:A:SER:O	1:38:A:SER:H	9	0.13
(1,133)	1:112:A:HIS:ND1	1:136:A:ASP:OD2	2	0.13
(1,3)	1:8:A:LEU:H	1:120:A:MET:O	2	0.13
(1,3)	1:8:A:LEU:H	1:120:A:MET:O	7	0.13
(2,1435)	1:127:A:GLU:C	1:140:A:TYR:CD2	9	0.12
(2,1432)	1:108:A:HIS:CD2	1:144:A:TRP:CE3	6	0.12
(2,1412)	1:66:A:TRP:CE2	1:122:A:LYS:CE	10	0.12
(2,1400)	1:65:A:LEU:C	1:122:A:LYS:CD	3	0.12
(2,1348)	1:29:A:LEU:HD21	1:41:A:ILE:HD11	3	0.12
(2,1348)	1:29:A:LEU:HD21	1:41:A:ILE:HD12	3	0.12
(2,1348)	1:29:A:LEU:HD21	1:41:A:ILE:HD13	3	0.12
(2,1348)	1:29:A:LEU:HD22	1:41:A:ILE:HD11	3	0.12
(2,1348)	1:29:A:LEU:HD22	1:41:A:ILE:HD12	3	0.12
(2,1348)	1:29:A:LEU:HD22	1:41:A:ILE:HD13	3	0.12
(2,1348)	1:29:A:LEU:HD23	1:41:A:ILE:HD11	3	0.12
(2,1348)	1:29:A:LEU:HD23	1:41:A:ILE:HD12	3	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1348)	1:29:A:LEU:HD23	1:41:A:ILE:HD13	3	0.12
(2,1348)	1:29:A:LEU:HD21	1:41:A:ILE:HD11	7	0.12
(2,1348)	1:29:A:LEU:HD21	1:41:A:ILE:HD12	7	0.12
(2,1348)	1:29:A:LEU:HD21	1:41:A:ILE:HD13	7	0.12
(2,1348)	1:29:A:LEU:HD22	1:41:A:ILE:HD11	7	0.12
(2,1348)	1:29:A:LEU:HD22	1:41:A:ILE:HD12	7	0.12
(2,1348)	1:29:A:LEU:HD22	1:41:A:ILE:HD13	7	0.12
(2,1348)	1:29:A:LEU:HD23	1:41:A:ILE:HD11	7	0.12
(2,1348)	1:29:A:LEU:HD23	1:41:A:ILE:HD12	7	0.12
(2,1348)	1:29:A:LEU:HD23	1:41:A:ILE:HD13	7	0.12
(2,1343)	1:99:A:ALA:H	1:113:A:VAL:HG11	3	0.12
(2,1343)	1:99:A:ALA:H	1:113:A:VAL:HG12	3	0.12
(2,1343)	1:99:A:ALA:H	1:113:A:VAL:HG13	3	0.12
(2,1331)	1:161:A:LEU:H	1:198:A:SER:H	7	0.12
(2,1316)	1:30:A:SER:H	1:178:A:LYS:H	4	0.12
(2,1316)	1:30:A:SER:H	1:178:A:LYS:H	7	0.12
(2,1314)	1:24:A:GLY:H	1:189:A:LEU:HD21	2	0.12
(2,1314)	1:24:A:GLY:H	1:189:A:LEU:HD22	2	0.12
(2,1314)	1:24:A:GLY:H	1:189:A:LEU:HD23	2	0.12
(2,1294)	1:7:A:GLU:H	1:120:A:MET:HE1	10	0.12
(2,1294)	1:7:A:GLU:H	1:120:A:MET:HE2	10	0.12
(2,1294)	1:7:A:GLU:H	1:120:A:MET:HE3	10	0.12
(2,1287)	1:144:A:TRP:HE1	1:228:A:GLN:H	6	0.12
(2,1276)	1:111:A:TRP:HE1	1:133:A:VAL:HG21	7	0.12
(2,1276)	1:111:A:TRP:HE1	1:133:A:VAL:HG22	7	0.12
(2,1276)	1:111:A:TRP:HE1	1:133:A:VAL:HG23	7	0.12
(2,1256)	1:7:A:GLU:H	1:119:A:LEU:HD11	3	0.12
(2,1256)	1:7:A:GLU:H	1:119:A:LEU:HD12	3	0.12
(2,1256)	1:7:A:GLU:H	1:119:A:LEU:HD13	3	0.12
(2,1256)	1:7:A:GLU:H	1:119:A:LEU:HD11	9	0.12
(2,1256)	1:7:A:GLU:H	1:119:A:LEU:HD12	9	0.12
(2,1256)	1:7:A:GLU:H	1:119:A:LEU:HD13	9	0.12
(2,1242)	1:4:A:ALA:H	1:89:A:LYS:H	5	0.12
(2,1174)	1:50:A:LEU:HD21	2:251:B:BEZ:H5	4	0.12
(2,1174)	1:50:A:LEU:HD22	2:251:B:BEZ:H5	4	0.12
(2,1174)	1:50:A:LEU:HD23	2:251:B:BEZ:H5	4	0.12
(2,1085)	1:214:A:GLY:H	1:224:A:SER:H	3	0.12
(2,911)	1:175:A:GLY:H	1:223:A:VAL:HG11	10	0.12
(2,911)	1:175:A:GLY:H	1:223:A:VAL:HG12	10	0.12
(2,911)	1:175:A:GLY:H	1:223:A:VAL:HG13	10	0.12
(2,911)	1:175:A:GLY:H	1:223:A:VAL:HG21	10	0.12
(2,911)	1:175:A:GLY:H	1:223:A:VAL:HG22	10	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,911)	1:175:A:GLY:H	1:223:A:VAL:HG23	10	0.12
(2,895)	1:170:A:VAL:HG11	1:189:A:LEU:HD11	3	0.12
(2,895)	1:170:A:VAL:HG11	1:189:A:LEU:HD12	3	0.12
(2,895)	1:170:A:VAL:HG11	1:189:A:LEU:HD13	3	0.12
(2,895)	1:170:A:VAL:HG11	1:189:A:LEU:HD21	3	0.12
(2,895)	1:170:A:VAL:HG11	1:189:A:LEU:HD22	3	0.12
(2,895)	1:170:A:VAL:HG11	1:189:A:LEU:HD23	3	0.12
(2,895)	1:170:A:VAL:HG12	1:189:A:LEU:HD11	3	0.12
(2,895)	1:170:A:VAL:HG12	1:189:A:LEU:HD12	3	0.12
(2,895)	1:170:A:VAL:HG12	1:189:A:LEU:HD13	3	0.12
(2,895)	1:170:A:VAL:HG12	1:189:A:LEU:HD21	3	0.12
(2,895)	1:170:A:VAL:HG12	1:189:A:LEU:HD22	3	0.12
(2,895)	1:170:A:VAL:HG12	1:189:A:LEU:HD23	3	0.12
(2,895)	1:170:A:VAL:HG13	1:189:A:LEU:HD11	3	0.12
(2,895)	1:170:A:VAL:HG13	1:189:A:LEU:HD12	3	0.12
(2,895)	1:170:A:VAL:HG13	1:189:A:LEU:HD13	3	0.12
(2,895)	1:170:A:VAL:HG13	1:189:A:LEU:HD21	3	0.12
(2,895)	1:170:A:VAL:HG13	1:189:A:LEU:HD22	3	0.12
(2,895)	1:170:A:VAL:HG13	1:189:A:LEU:HD23	3	0.12
(2,895)	1:170:A:VAL:HG21	1:189:A:LEU:HD11	3	0.12
(2,895)	1:170:A:VAL:HG21	1:189:A:LEU:HD12	3	0.12
(2,895)	1:170:A:VAL:HG21	1:189:A:LEU:HD13	3	0.12
(2,895)	1:170:A:VAL:HG21	1:189:A:LEU:HD21	3	0.12
(2,895)	1:170:A:VAL:HG21	1:189:A:LEU:HD22	3	0.12
(2,895)	1:170:A:VAL:HG21	1:189:A:LEU:HD23	3	0.12
(2,895)	1:170:A:VAL:HG22	1:189:A:LEU:HD11	3	0.12
(2,895)	1:170:A:VAL:HG22	1:189:A:LEU:HD12	3	0.12
(2,895)	1:170:A:VAL:HG22	1:189:A:LEU:HD13	3	0.12
(2,895)	1:170:A:VAL:HG22	1:189:A:LEU:HD21	3	0.12
(2,895)	1:170:A:VAL:HG22	1:189:A:LEU:HD22	3	0.12
(2,895)	1:170:A:VAL:HG22	1:189:A:LEU:HD23	3	0.12
(2,895)	1:170:A:VAL:HG23	1:189:A:LEU:HD11	3	0.12
(2,895)	1:170:A:VAL:HG23	1:189:A:LEU:HD12	3	0.12
(2,895)	1:170:A:VAL:HG23	1:189:A:LEU:HD13	3	0.12
(2,895)	1:170:A:VAL:HG23	1:189:A:LEU:HD21	3	0.12
(2,895)	1:170:A:VAL:HG23	1:189:A:LEU:HD22	3	0.12
(2,895)	1:170:A:VAL:HG23	1:189:A:LEU:HD23	3	0.12
(2,781)	1:149:A:GLU:H	1:209:A:GLY:H	7	0.12
(2,774)	1:148:A:GLY:H	1:209:A:GLY:H	8	0.12
(2,764)	1:146:A:LEU:HD11	1:231:A:LYS:H	2	0.12
(2,764)	1:146:A:LEU:HD12	1:231:A:LYS:H	2	0.12
(2,764)	1:146:A:LEU:HD13	1:231:A:LYS:H	2	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,764)	1:146:A:LEU:HD21	1:231:A:LYS:H	2	0.12
(2,764)	1:146:A:LEU:HD22	1:231:A:LYS:H	2	0.12
(2,764)	1:146:A:LEU:HD23	1:231:A:LYS:H	2	0.12
(2,753)	1:146:A:LEU:H	1:148:A:GLY:H	8	0.12
(2,619)	1:118:A:VAL:H	1:120:A:MET:HE1	8	0.12
(2,619)	1:118:A:VAL:H	1:120:A:MET:HE2	8	0.12
(2,619)	1:118:A:VAL:H	1:120:A:MET:HE3	8	0.12
(2,520)	1:107:A:PHE:H	1:129:A:SER:HG	4	0.12
(2,501)	1:101:A:VAL:HG11	1:110:A:MET:H	2	0.12
(2,501)	1:101:A:VAL:HG12	1:110:A:MET:H	2	0.12
(2,501)	1:101:A:VAL:HG13	1:110:A:MET:H	2	0.12
(2,501)	1:101:A:VAL:HG21	1:110:A:MET:H	2	0.12
(2,501)	1:101:A:VAL:HG22	1:110:A:MET:H	2	0.12
(2,501)	1:101:A:VAL:HG23	1:110:A:MET:H	2	0.12
(2,480)	1:98:A:GLY:H	2:251:B:BEZ:H6	7	0.12
(2,427)	1:87:A:LYS:H	1:119:A:LEU:HD11	7	0.12
(2,427)	1:87:A:LYS:H	1:119:A:LEU:HD12	7	0.12
(2,427)	1:87:A:LYS:H	1:119:A:LEU:HD13	7	0.12
(2,427)	1:87:A:LYS:H	1:119:A:LEU:HD21	7	0.12
(2,427)	1:87:A:LYS:H	1:119:A:LEU:HD22	7	0.12
(2,427)	1:87:A:LYS:H	1:119:A:LEU:HD23	7	0.12
(2,329)	1:49:A:THR:H	1:51:A:GLY:H	3	0.12
(2,316)	1:41:A:ILE:HD11	1:216:A:VAL:H	1	0.12
(2,316)	1:41:A:ILE:HD12	1:216:A:VAL:H	1	0.12
(2,316)	1:41:A:ILE:HD13	1:216:A:VAL:H	1	0.12
(2,302)	1:39:A:MET:HE1	1:217:A:THR:HG1	10	0.12
(2,302)	1:39:A:MET:HE2	1:217:A:THR:HG1	10	0.12
(2,302)	1:39:A:MET:HE3	1:217:A:THR:HG1	10	0.12
(2,265)	1:33:A:ILE:H	1:39:A:MET:HE1	1	0.12
(2,265)	1:33:A:ILE:H	1:39:A:MET:HE2	1	0.12
(2,265)	1:33:A:ILE:H	1:39:A:MET:HE3	1	0.12
(2,212)	1:29:A:LEU:H	1:177:A:PHE:H	2	0.12
(2,158)	1:19:A:GLN:HE21	1:169:A:ALA:H	8	0.12
(2,158)	1:19:A:GLN:HE22	1:169:A:ALA:H	8	0.12
(2,157)	1:19:A:GLN:H	1:21:A:GLU:H	10	0.12
(1,262)	1:195:A:THR:O	1:198:A:SER:H	5	0.12
(1,260)	1:99:A:ALA:H	1:196:A:SER:O	1	0.12
(1,258)	1:198:A:SER:O	1:211:A:TYR:H	5	0.12
(1,256)	1:210:A:LEU:H	1:227:A:ALA:O	8	0.12
(1,254)	1:210:A:LEU:O	1:227:A:ALA:H	3	0.12
(1,252)	1:107:A:PHE:H	1:140:A:TYR:O	10	0.12
(1,238)	1:200:A:ILE:H	1:209:A:GLY:O	1	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,238)	1:200:A:ILE:H	1:209:A:GLY:O	8	0.12
(1,236)	1:200:A:ILE:O	1:209:A:GLY:H	1	0.12
(1,222)	1:88:A:GLN:O	1:95:A:SER:H	6	0.12
(1,222)	1:88:A:GLN:O	1:95:A:SER:H	10	0.12
(1,219)	1:86:A:ILE:O	1:98:A:GLY:N	4	0.12
(1,218)	1:86:A:ILE:O	1:98:A:GLY:H	3	0.12
(1,216)	1:86:A:ILE:H	1:98:A:GLY:O	4	0.12
(1,208)	1:82:A:GLY:H	1:102:A:TYR:O	4	0.12
(1,208)	1:82:A:GLY:H	1:102:A:TYR:O	8	0.12
(1,202)	1:12:A:ALA:O	1:83:A:ALA:H	10	0.12
(1,200)	1:9:A:GLU:H	1:85:A:ARG:O	6	0.12
(1,196)	1:7:A:GLU:H	1:87:A:LYS:O	9	0.12
(1,194)	1:7:A:GLU:O	1:87:A:LYS:H	2	0.12
(1,194)	1:7:A:GLU:O	1:87:A:LYS:H	5	0.12
(1,193)	1:5:A:ASP:O	1:89:A:LYS:N	3	0.12
(1,193)	1:5:A:ASP:O	1:89:A:LYS:N	8	0.12
(1,190)	1:121:A:HIS:H	1:124:A:LYS:O	2	0.12
(1,190)	1:121:A:HIS:H	1:124:A:LYS:O	4	0.12
(1,186)	1:119:A:LEU:H	1:126:A:ILE:O	6	0.12
(1,180)	1:130:A:TRP:O	1:139:A:SER:H	9	0.12
(1,170)	1:215:A:VAL:H	1:223:A:VAL:O	3	0.12
(1,152)	1:158:A:VAL:H	1:170:A:VAL:O	4	0.12
(1,142)	1:34:A:SER:O	1:38:A:SER:H	4	0.12
(1,140)	1:32:A:THR:H	1:40:A:SER:O	9	0.12
(1,132)	1:112:A:HIS:NE2	1:196:A:SER:OG	2	0.12
(1,91)	1:88:A:GLN:H	1:95:A:SER:O	6	0.12
(1,91)	1:88:A:GLN:H	1:95:A:SER:O	9	0.12
(1,85)	1:86:A:ILE:O	1:98:A:GLY:H	9	0.12
(1,67)	1:9:A:GLU:H	1:85:A:ARG:O	2	0.12
(1,32)	1:175:A:GLY:N	1:186:A:ALA:O	9	0.12
(1,9)	1:34:A:SER:O	1:38:A:SER:H	10	0.12
(2,1434)	1:118:A:VAL:CG1	1:125:A:ARG:CG	5	0.11
(2,1405)	1:66:A:TRP:CG	1:122:A:LYS:CE	6	0.11
(2,1400)	1:65:A:LEU:C	1:122:A:LYS:CD	1	0.11
(2,1397)	1:64:A:VAL:C	1:122:A:LYS:CE	1	0.11
(2,1383)	1:32:A:THR:CG2	1:42:A:LYS:CB	6	0.11
(2,1381)	1:14:A:VAL:CG1	1:201:A:ILE:CD1	2	0.11
(2,1377)	1:9:A:GLU:CD	1:51:A:GLY:CA	9	0.11
(2,1353)	1:39:A:MET:HE1	1:225:A:ALA:H	10	0.11
(2,1353)	1:39:A:MET:HE2	1:225:A:ALA:H	10	0.11
(2,1353)	1:39:A:MET:HE3	1:225:A:ALA:H	10	0.11
(2,1345)	1:6:A:LEU:HD21	1:119:A:LEU:HD11	1	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1345)	1:6:A:LEU:HD21	1:119:A:LEU:HD12	1	0.11
(2,1345)	1:6:A:LEU:HD21	1:119:A:LEU:HD13	1	0.11
(2,1345)	1:6:A:LEU:HD22	1:119:A:LEU:HD11	1	0.11
(2,1345)	1:6:A:LEU:HD22	1:119:A:LEU:HD12	1	0.11
(2,1345)	1:6:A:LEU:HD22	1:119:A:LEU:HD13	1	0.11
(2,1345)	1:6:A:LEU:HD23	1:119:A:LEU:HD11	1	0.11
(2,1345)	1:6:A:LEU:HD23	1:119:A:LEU:HD12	1	0.11
(2,1345)	1:6:A:LEU:HD23	1:119:A:LEU:HD13	1	0.11
(2,1340)	1:31:A:ILE:H	1:178:A:LYS:H	7	0.11
(2,1311)	1:25:A:SER:H	1:188:A:SER:H	4	0.11
(2,1309)	1:21:A:GLU:H	1:171:A:GLN:H	10	0.11
(2,1275)	1:111:A:TRP:HE1	1:133:A:VAL:HG11	8	0.11
(2,1275)	1:111:A:TRP:HE1	1:133:A:VAL:HG12	8	0.11
(2,1275)	1:111:A:TRP:HE1	1:133:A:VAL:HG13	8	0.11
(2,1266)	1:29:A:LEU:H	1:176:A:LEU:H	4	0.11
(2,1174)	1:50:A:LEU:HD21	2:251:B:BEZ:H5	5	0.11
(2,1174)	1:50:A:LEU:HD22	2:251:B:BEZ:H5	5	0.11
(2,1174)	1:50:A:LEU:HD23	2:251:B:BEZ:H5	5	0.11
(2,1154)	1:50:A:LEU:HD11	2:251:B:BEZ:H6	1	0.11
(2,1154)	1:50:A:LEU:HD12	2:251:B:BEZ:H6	1	0.11
(2,1154)	1:50:A:LEU:HD13	2:251:B:BEZ:H6	1	0.11
(2,1140)	1:233:A:ILE:HD11	1:235:A:ASP:H	2	0.11
(2,1140)	1:233:A:ILE:HD12	1:235:A:ASP:H	2	0.11
(2,1140)	1:233:A:ILE:HD13	1:235:A:ASP:H	2	0.11
(2,1114)	1:217:A:THR:HG1	1:221:A:ALA:H	10	0.11
(2,946)	1:182:A:GLY:H	1:184:A:ILE:HD11	4	0.11
(2,946)	1:182:A:GLY:H	1:184:A:ILE:HD12	4	0.11
(2,946)	1:182:A:GLY:H	1:184:A:ILE:HD13	4	0.11
(2,944)	1:181:A:ALA:H	1:184:A:ILE:HD11	2	0.11
(2,944)	1:181:A:ALA:H	1:184:A:ILE:HD12	2	0.11
(2,944)	1:181:A:ALA:H	1:184:A:ILE:HD13	2	0.11
(2,944)	1:181:A:ALA:H	1:184:A:ILE:HD11	5	0.11
(2,944)	1:181:A:ALA:H	1:184:A:ILE:HD12	5	0.11
(2,944)	1:181:A:ALA:H	1:184:A:ILE:HD13	5	0.11
(2,943)	1:181:A:ALA:H	1:183:A:THR:H	7	0.11
(2,795)	1:150:A:TRP:HE1	1:187:A:VAL:HG11	1	0.11
(2,795)	1:150:A:TRP:HE1	1:187:A:VAL:HG12	1	0.11
(2,795)	1:150:A:TRP:HE1	1:187:A:VAL:HG13	1	0.11
(2,795)	1:150:A:TRP:HE1	1:187:A:VAL:HG21	1	0.11
(2,795)	1:150:A:TRP:HE1	1:187:A:VAL:HG22	1	0.11
(2,795)	1:150:A:TRP:HE1	1:187:A:VAL:HG23	1	0.11
(2,779)	1:149:A:GLU:H	1:208:A:VAL:H	5	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,777)	1:149:A:GLU:H	1:207:A:VAL:H	3	0.11
(2,661)	1:120:A:MET:HE1	1:122:A:LYS:H	2	0.11
(2,661)	1:120:A:MET:HE2	1:122:A:LYS:H	2	0.11
(2,661)	1:120:A:MET:HE3	1:122:A:LYS:H	2	0.11
(2,464)	1:95:A:SER:H	1:97:A:ILE:HD11	6	0.11
(2,464)	1:95:A:SER:H	1:97:A:ILE:HD12	6	0.11
(2,464)	1:95:A:SER:H	1:97:A:ILE:HD13	6	0.11
(2,421)	1:86:A:ILE:HD11	2:251:B:BEZ:H6	2	0.11
(2,421)	1:86:A:ILE:HD12	2:251:B:BEZ:H6	2	0.11
(2,421)	1:86:A:ILE:HD13	2:251:B:BEZ:H6	2	0.11
(2,421)	1:86:A:ILE:HD11	2:251:B:BEZ:H6	7	0.11
(2,421)	1:86:A:ILE:HD12	2:251:B:BEZ:H6	7	0.11
(2,421)	1:86:A:ILE:HD13	2:251:B:BEZ:H6	7	0.11
(2,366)	1:66:A:TRP:H	1:66:A:TRP:HE1	9	0.11
(2,331)	1:50:A:LEU:H	1:51:A:GLY:H	3	0.11
(2,312)	1:41:A:ILE:H	1:215:A:VAL:HG11	5	0.11
(2,312)	1:41:A:ILE:H	1:215:A:VAL:HG12	5	0.11
(2,312)	1:41:A:ILE:H	1:215:A:VAL:HG13	5	0.11
(2,312)	1:41:A:ILE:H	1:215:A:VAL:HG21	5	0.11
(2,312)	1:41:A:ILE:H	1:215:A:VAL:HG22	5	0.11
(2,312)	1:41:A:ILE:H	1:215:A:VAL:HG23	5	0.11
(2,275)	1:33:A:ILE:HD11	1:182:A:GLY:H	1	0.11
(2,275)	1:33:A:ILE:HD12	1:182:A:GLY:H	1	0.11
(2,275)	1:33:A:ILE:HD13	1:182:A:GLY:H	1	0.11
(2,225)	1:29:A:LEU:HD11	1:219:A:SER:H	2	0.11
(2,225)	1:29:A:LEU:HD12	1:219:A:SER:H	2	0.11
(2,225)	1:29:A:LEU:HD13	1:219:A:SER:H	2	0.11
(2,225)	1:29:A:LEU:HD21	1:219:A:SER:H	2	0.11
(2,225)	1:29:A:LEU:HD22	1:219:A:SER:H	2	0.11
(2,225)	1:29:A:LEU:HD23	1:219:A:SER:H	2	0.11
(2,225)	1:29:A:LEU:HD11	1:219:A:SER:H	5	0.11
(2,225)	1:29:A:LEU:HD12	1:219:A:SER:H	5	0.11
(2,225)	1:29:A:LEU:HD13	1:219:A:SER:H	5	0.11
(2,225)	1:29:A:LEU:HD21	1:219:A:SER:H	5	0.11
(2,225)	1:29:A:LEU:HD22	1:219:A:SER:H	5	0.11
(2,225)	1:29:A:LEU:HD23	1:219:A:SER:H	5	0.11
(1,262)	1:195:A:THR:O	1:198:A:SER:H	1	0.11
(1,260)	1:99:A:ALA:H	1:196:A:SER:O	10	0.11
(1,254)	1:210:A:LEU:O	1:227:A:ALA:H	5	0.11
(1,251)	1:107:A:PHE:O	1:140:A:TYR:N	8	0.11
(1,244)	1:103:A:LYS:H	1:106:A:THR:O	4	0.11
(1,242)	1:103:A:LYS:O	1:106:A:THR:H	7	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,240)	1:200:A:ILE:O	1:208:A:VAL:H	4	0.11
(1,236)	1:200:A:ILE:O	1:209:A:GLY:H	10	0.11
(1,232)	1:157:A:GLN:H	1:201:A:ILE:O	9	0.11
(1,226)	1:90:A:GLY:H	1:93:A:GLY:O	3	0.11
(1,222)	1:88:A:GLN:O	1:95:A:SER:H	8	0.11
(1,216)	1:86:A:ILE:H	1:98:A:GLY:O	3	0.11
(1,216)	1:86:A:ILE:H	1:98:A:GLY:O	5	0.11
(1,216)	1:86:A:ILE:H	1:98:A:GLY:O	8	0.11
(1,211)	1:82:A:GLY:O	1:102:A:TYR:N	9	0.11
(1,210)	1:82:A:GLY:O	1:102:A:TYR:H	1	0.11
(1,210)	1:82:A:GLY:O	1:102:A:TYR:H	2	0.11
(1,210)	1:82:A:GLY:O	1:102:A:TYR:H	5	0.11
(1,210)	1:82:A:GLY:O	1:102:A:TYR:H	6	0.11
(1,208)	1:82:A:GLY:H	1:102:A:TYR:O	3	0.11
(1,204)	1:12:A:ALA:H	1:83:A:ALA:O	8	0.11
(1,195)	1:7:A:GLU:O	1:87:A:LYS:N	7	0.11
(1,194)	1:7:A:GLU:O	1:87:A:LYS:H	6	0.11
(1,193)	1:5:A:ASP:O	1:89:A:LYS:N	5	0.11
(1,192)	1:5:A:ASP:O	1:89:A:LYS:H	1	0.11
(1,190)	1:121:A:HIS:H	1:124:A:LYS:O	3	0.11
(1,186)	1:119:A:LEU:H	1:126:A:ILE:O	1	0.11
(1,176)	1:132:A:ASP:O	1:137:A:LEU:H	8	0.11
(1,172)	1:217:A:THR:O	1:221:A:ALA:H	3	0.11
(1,166)	1:175:A:GLY:O	1:186:A:ALA:H	7	0.11
(1,160)	1:177:A:PHE:O	1:184:A:ILE:H	9	0.11
(1,158)	1:179:A:THR:H	1:182:A:GLY:O	8	0.11
(1,150)	1:158:A:VAL:O	1:170:A:VAL:H	9	0.11
(1,142)	1:34:A:SER:O	1:38:A:SER:H	3	0.11
(1,140)	1:32:A:THR:H	1:40:A:SER:O	7	0.11
(1,138)	1:32:A:THR:O	1:40:A:SER:H	1	0.11
(1,138)	1:32:A:THR:O	1:40:A:SER:H	2	0.11
(1,91)	1:88:A:GLN:H	1:95:A:SER:O	2	0.11
(1,91)	1:88:A:GLN:H	1:95:A:SER:O	5	0.11
(1,59)	1:5:A:ASP:O	1:89:A:LYS:H	3	0.11
(1,32)	1:175:A:GLY:N	1:186:A:ALA:O	10	0.11
(2,1442)	1:201:A:ILE:CG2	1:205:A:GLY:C	9	0.1
(2,1416)	1:67:A:ASP:CB	1:80:A:GLU:CA	10	0.1
(2,1396)	1:64:A:VAL:C	1:122:A:LYS:CD	4	0.1
(2,1370)	1:31:A:ILE:HD11	1:215:A:VAL:HG21	2	0.1
(2,1370)	1:31:A:ILE:HD11	1:215:A:VAL:HG22	2	0.1
(2,1370)	1:31:A:ILE:HD11	1:215:A:VAL:HG23	2	0.1
(2,1370)	1:31:A:ILE:HD12	1:215:A:VAL:HG21	2	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1370)	1:31:A:ILE:HD12	1:215:A:VAL:HG22	2	0.1
(2,1370)	1:31:A:ILE:HD12	1:215:A:VAL:HG23	2	0.1
(2,1370)	1:31:A:ILE:HD13	1:215:A:VAL:HG21	2	0.1
(2,1370)	1:31:A:ILE:HD13	1:215:A:VAL:HG22	2	0.1
(2,1370)	1:31:A:ILE:HD13	1:215:A:VAL:HG23	2	0.1
(2,1332)	1:176:A:LEU:HD21	1:186:A:ALA:H	8	0.1
(2,1332)	1:176:A:LEU:HD22	1:186:A:ALA:H	8	0.1
(2,1332)	1:176:A:LEU:HD23	1:186:A:ALA:H	8	0.1
(2,1319)	1:34:A:SER:H	1:38:A:SER:H	7	0.1
(2,1278)	1:186:A:ALA:H	1:226:A:ILE:HD11	3	0.1
(2,1278)	1:186:A:ALA:H	1:226:A:ILE:HD12	3	0.1
(2,1278)	1:186:A:ALA:H	1:226:A:ILE:HD13	3	0.1
(2,1275)	1:111:A:TRP:HE1	1:133:A:VAL:HG11	5	0.1
(2,1275)	1:111:A:TRP:HE1	1:133:A:VAL:HG12	5	0.1
(2,1275)	1:111:A:TRP:HE1	1:133:A:VAL:HG13	5	0.1
(2,1205)	1:101:A:VAL:HG11	2:251:B:BEZ:H6	3	0.1
(2,1205)	1:101:A:VAL:HG12	2:251:B:BEZ:H6	3	0.1
(2,1205)	1:101:A:VAL:HG13	2:251:B:BEZ:H6	3	0.1
(2,1205)	1:101:A:VAL:HG21	2:251:B:BEZ:H6	3	0.1
(2,1205)	1:101:A:VAL:HG22	2:251:B:BEZ:H6	3	0.1
(2,1205)	1:101:A:VAL:HG23	2:251:B:BEZ:H6	3	0.1
(2,1174)	1:50:A:LEU:HD21	2:251:B:BEZ:H5	6	0.1
(2,1174)	1:50:A:LEU:HD22	2:251:B:BEZ:H5	6	0.1
(2,1174)	1:50:A:LEU:HD23	2:251:B:BEZ:H5	6	0.1
(2,1085)	1:214:A:GLY:H	1:224:A:SER:H	1	0.1
(2,689)	1:130:A:TRP:HE1	1:133:A:VAL:HG11	9	0.1
(2,689)	1:130:A:TRP:HE1	1:133:A:VAL:HG12	9	0.1
(2,689)	1:130:A:TRP:HE1	1:133:A:VAL:HG13	9	0.1
(2,689)	1:130:A:TRP:HE1	1:133:A:VAL:HG21	9	0.1
(2,689)	1:130:A:TRP:HE1	1:133:A:VAL:HG22	9	0.1
(2,689)	1:130:A:TRP:HE1	1:133:A:VAL:HG23	9	0.1
(2,479)	1:98:A:GLY:H	1:113:A:VAL:HG11	8	0.1
(2,479)	1:98:A:GLY:H	1:113:A:VAL:HG12	8	0.1
(2,479)	1:98:A:GLY:H	1:113:A:VAL:HG13	8	0.1
(2,479)	1:98:A:GLY:H	1:113:A:VAL:HG21	8	0.1
(2,479)	1:98:A:GLY:H	1:113:A:VAL:HG22	8	0.1
(2,479)	1:98:A:GLY:H	1:113:A:VAL:HG23	8	0.1
(2,297)	1:39:A:MET:HE1	1:177:A:PHE:H	5	0.1
(2,297)	1:39:A:MET:HE2	1:177:A:PHE:H	5	0.1
(2,297)	1:39:A:MET:HE3	1:177:A:PHE:H	5	0.1
(2,177)	1:23:A:SER:H	1:172:A:THR:H	7	0.1
(2,174)	1:23:A:SER:H	1:24:A:GLY:H	3	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,262)	1:195:A:THR:O	1:198:A:SER:H	6	0.1
(1,260)	1:99:A:ALA:H	1:196:A:SER:O	2	0.1
(1,254)	1:210:A:LEU:O	1:227:A:ALA:H	8	0.1
(1,252)	1:107:A:PHE:H	1:140:A:TYR:O	1	0.1
(1,242)	1:103:A:LYS:O	1:106:A:THR:H	10	0.1
(1,238)	1:200:A:ILE:H	1:209:A:GLY:O	7	0.1
(1,236)	1:200:A:ILE:O	1:209:A:GLY:H	4	0.1
(1,232)	1:157:A:GLN:H	1:201:A:ILE:O	4	0.1
(1,226)	1:90:A:GLY:H	1:93:A:GLY:O	8	0.1
(1,225)	1:88:A:GLN:N	1:95:A:SER:O	5	0.1
(1,225)	1:88:A:GLN:N	1:95:A:SER:O	6	0.1
(1,216)	1:86:A:ILE:H	1:98:A:GLY:O	6	0.1
(1,212)	1:84:A:TYR:O	1:100:A:GLY:H	1	0.1
(1,200)	1:9:A:GLU:H	1:85:A:ARG:O	9	0.1
(1,196)	1:7:A:GLU:H	1:87:A:LYS:O	4	0.1
(1,188)	1:121:A:HIS:O	1:124:A:LYS:H	5	0.1
(1,182)	1:130:A:TRP:H	1:139:A:SER:O	4	0.1
(1,180)	1:130:A:TRP:O	1:139:A:SER:H	10	0.1
(1,176)	1:132:A:ASP:O	1:137:A:LEU:H	3	0.1
(1,172)	1:217:A:THR:O	1:221:A:ALA:H	6	0.1
(1,172)	1:217:A:THR:O	1:221:A:ALA:H	7	0.1
(1,170)	1:215:A:VAL:H	1:223:A:VAL:O	7	0.1
(1,168)	1:215:A:VAL:O	1:223:A:VAL:H	4	0.1
(1,168)	1:215:A:VAL:O	1:223:A:VAL:H	6	0.1
(1,168)	1:215:A:VAL:O	1:223:A:VAL:H	7	0.1
(1,160)	1:177:A:PHE:O	1:184:A:ILE:H	2	0.1
(1,154)	1:156:A:VAL:H	1:172:A:THR:O	10	0.1
(1,146)	1:160:A:ALA:H	1:168:A:ARG:O	6	0.1
(1,146)	1:160:A:ALA:H	1:168:A:ARG:O	10	0.1
(1,134)	1:6:A:LEU:O	1:120:A:MET:H	9	0.1
(1,85)	1:86:A:ILE:O	1:98:A:GLY:H	6	0.1
(1,53)	1:119:A:LEU:H	1:126:A:ILE:O	4	0.1

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

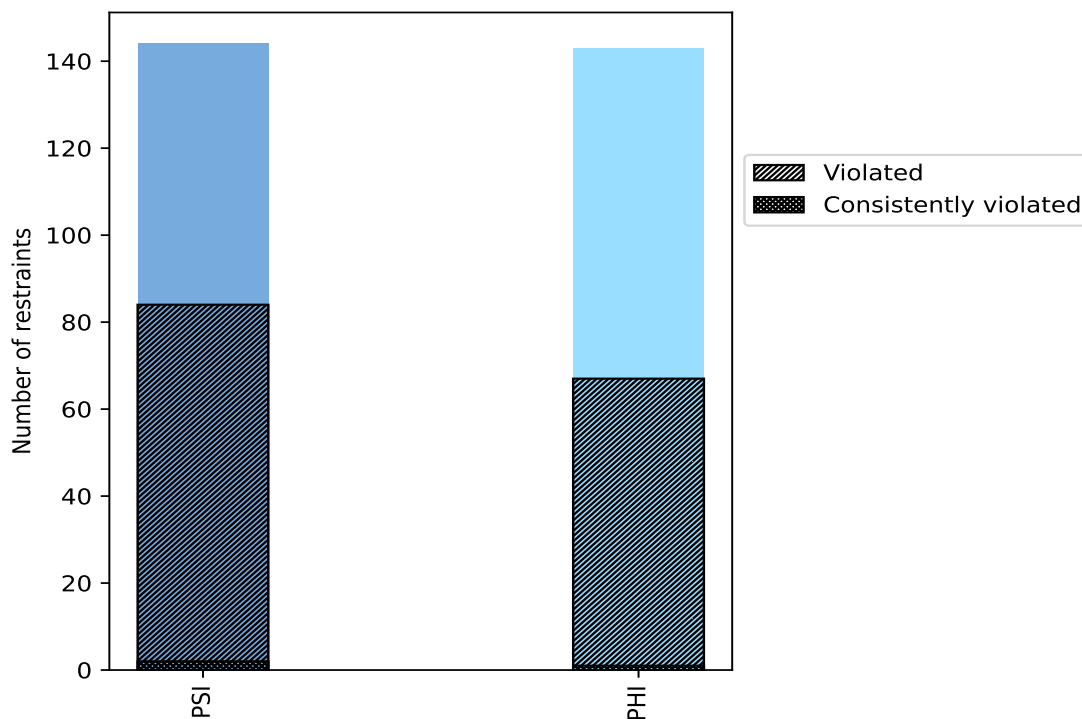
10.1 Summary of dihedral-angle violations [i](#)

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
PSI	144	50.2	84	58.3	29.3	2	1.4	0.7
PHI	143	49.8	67	46.9	23.3	1	0.7	0.3
Total	287	100.0	151	52.6	52.6	3	1.0	1.0

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

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



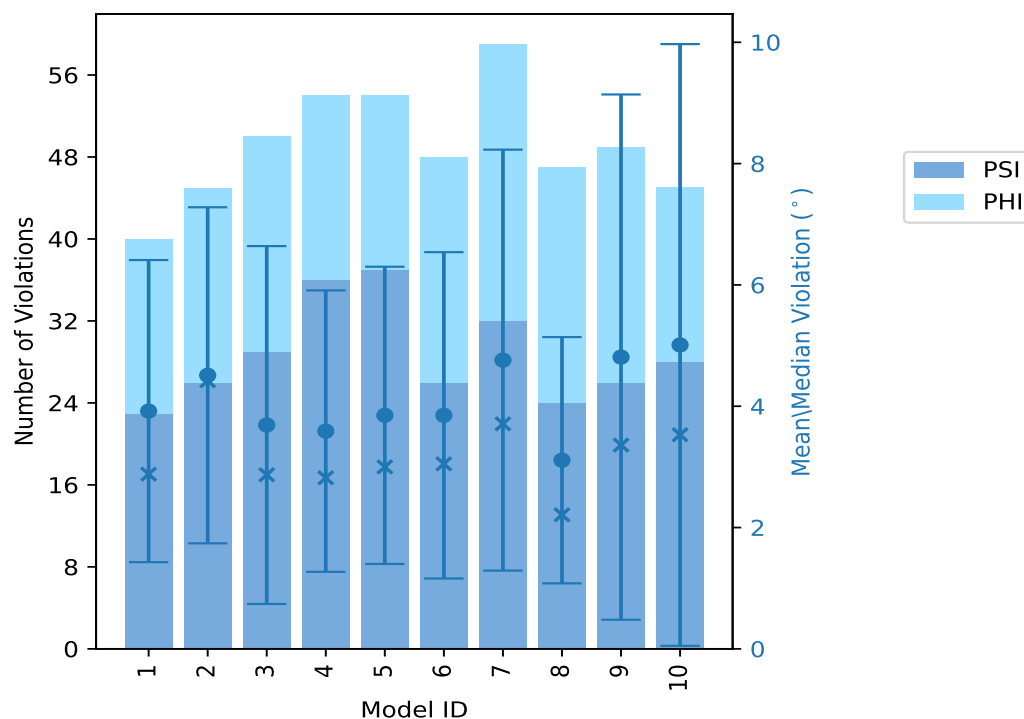
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

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 (°)
	PSI	PHI	Total				
1	23	17	40	3.92	10.76	2.49	2.88
2	26	19	45	4.51	12.99	2.77	4.42
3	29	21	50	3.69	13.91	2.95	2.87
4	36	18	54	3.59	13.28	2.32	2.82
5	37	17	54	3.85	13.22	2.45	3.0
6	26	22	48	3.85	13.29	2.69	3.05
7	32	27	59	4.76	13.49	3.47	3.71
8	24	23	47	3.11	10.36	2.03	2.21
9	26	23	49	4.81	24.11	4.33	3.36
10	28	17	45	5.01	32.12	4.96	3.53

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

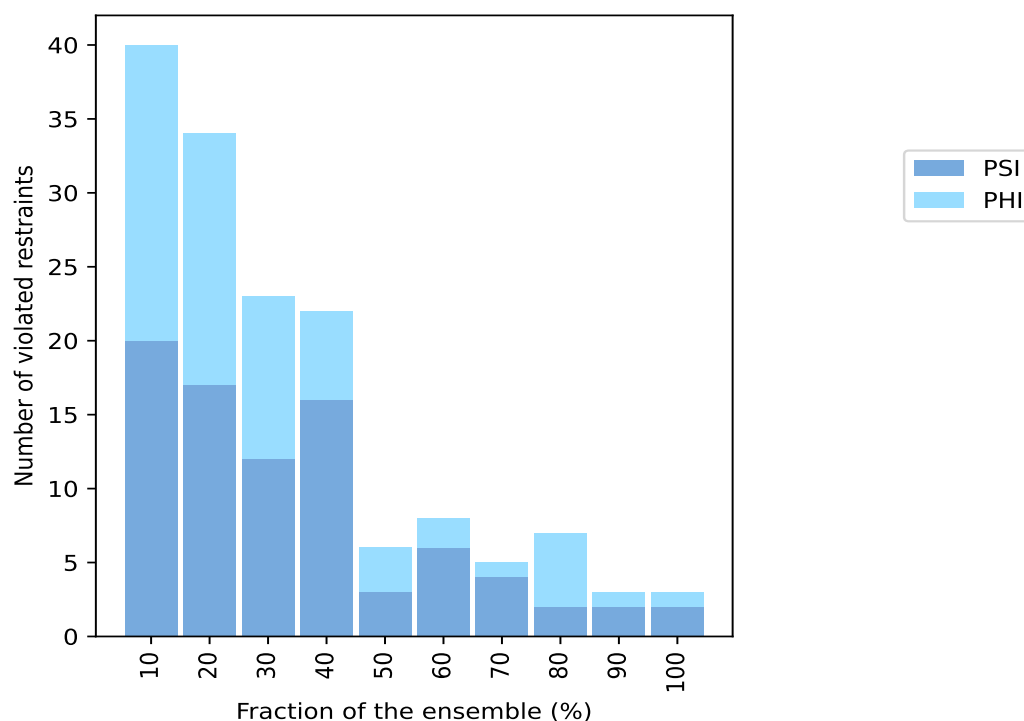
10.3 Dihedral-angle violation statistics for the ensemble [i](#)

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	
PSI	PHI	Total	Count ¹	%
20	20	40	1	10.0
17	17	34	2	20.0
12	11	23	3	30.0
16	6	22	4	40.0
3	3	6	5	50.0
6	2	8	6	60.0
4	1	5	7	70.0
2	5	7	8	80.0
2	1	3	9	90.0
2	1	3	10	100.0

¹ Number of models with violations

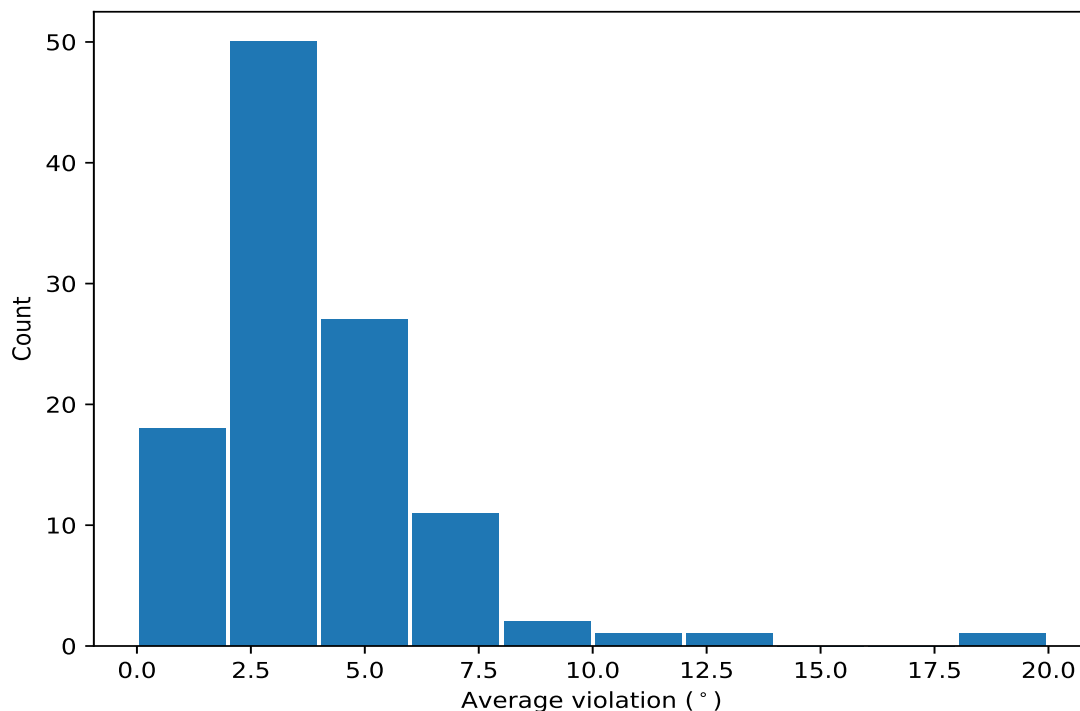
10.3.1 Bar graph : Dihedral-angle Violation statistics for the ensemble [i](#)



10.4 Most violated dihedral-angle restraints in the ensemble [i](#)

10.4.1 Histogram : Distribution of mean dihedral-angle 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



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
(1,78)	1:89:A:LYS:N	1:89:A:LYS:CA	1:89:A:LYS:C	1:90:A:GLY:N	10	7.61	3.79	7.0
(1,18)	1:14:A:VAL:N	1:14:A:VAL:CA	1:14:A:VAL:C	1:15:A:LYS:N	10	7.59	2.21	7.19
(1,103)	1:110:A:MET:C	1:111:A:TRP:N	1:111:A:TRP:CA	1:111:A:TRP:C	10	6.71	2.0	7.0
(1,85)	1:96:A:GLN:C	1:97:A:ILE:N	1:97:A:ILE:CA	1:97:A:ILE:C	9	4.57	3.16	4.1
(1,124)	1:124:A:LYS:N	1:124:A:LYS:CA	1:124:A:LYS:C	1:125:A:ARG:N	9	4.52	1.58	4.67
(1,24)	1:17:A:GLU:N	1:17:A:GLU:CA	1:17:A:GLU:C	1:18:A:ASP:N	9	3.39	3.27	1.65
(1,79)	1:89:A:LYS:C	1:90:A:GLY:N	1:90:A:GLY:CA	1:90:A:GLY:C	8	10.09	1.89	10.31
(1,61)	1:67:A:ASP:C	1:68:A:VAL:N	1:68:A:VAL:CA	1:68:A:VAL:C	8	6.68	2.88	5.76
(1,265)	1:216:A:VAL:N	1:216:A:VAL:CA	1:216:A:VAL:C	1:217:A:THR:N	8	4.87	2.31	4.62
(1,222)	1:184:A:ILE:C	1:185:A:GLY:N	1:185:A:GLY:CA	1:185:A:GLY:C	8	4.26	1.47	4.82
(1,101)	1:108:A:HIS:C	1:109:A:THR:N	1:109:A:THR:CA	1:109:A:THR:C	8	3.82	2.18	3.3
(1,88)	1:99:A:ALA:N	1:99:A:ALA:CA	1:99:A:ALA:C	1:100:A:GLY:N	8	3.11	1.77	2.4
(1,121)	1:122:A:LYS:C	1:123:A:GLY:N	1:123:A:GLY:CA	1:123:A:GLY:C	8	2.48	1.42	1.88

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,120)	1:121:A:HIS:N	1:121:A:HIS:CA	1:121:A:HIS:C	1:122:A:LYS:N	7	6.24	3.4	6.42
(1,86)	1:97:A:ILE:N	1:97:A:ILE:CA	1:97:A:ILE:C	1:98:A:GLY:N	7	5.24	2.67	3.75
(1,178)	1:157:A:GLN:C	1:158:A:VAL:N	1:158:A:VAL:CA	1:158:A:VAL:C	7	4.63	1.55	4.57
(1,198)	1:169:A:ALA:N	1:169:A:ALA:CA	1:169:A:ALA:C	1:170:A:VAL:N	7	3.64	1.93	3.55
(1,2)	1:6:A:LEU:N	1:6:A:LEU:CA	1:6:A:LEU:C	1:7:A:GLU:N	7	2.5	1.31	2.07
(1,253)	1:206:A:LYS:N	1:206:A:LYS:CA	1:206:A:LYS:C	1:207:A:VAL:N	6	5.83	2.19	5.4
(1,60)	1:67:A:ASP:N	1:67:A:ASP:CA	1:67:A:ASP:C	1:68:A:VAL:N	6	5.79	4.14	4.44
(1,80)	1:90:A:GLY:N	1:90:A:GLY:CA	1:90:A:GLY:C	1:91:A:ILE:N	6	5.09	2.32	4.88
(1,45)	1:31:A:ILE:C	1:32:A:THR:N	1:32:A:THR:CA	1:32:A:THR:C	6	4.05	1.96	3.6
(1,28)	1:19:A:GLN:N	1:19:A:GLN:CA	1:19:A:GLN:C	1:20:A:ALA:N	6	4.05	1.32	3.83
(1,76)	1:88:A:GLN:N	1:88:A:GLN:CA	1:88:A:GLN:C	1:89:A:LYS:N	6	3.44	2.22	2.93
(1,188)	1:163:A:PRO:N	1:163:A:PRO:CA	1:163:A:PRO:C	1:164:A:GLY:N	6	2.76	0.78	2.84
(1,184)	1:160:A:ALA:C	1:161:A:LEU:N	1:161:A:LEU:CA	1:161:A:LEU:C	6	2.12	0.84	1.84
(1,59)	1:66:A:TRP:C	1:67:A:ASP:N	1:67:A:ASP:CA	1:67:A:ASP:C	5	5.02	2.44	5.37
(1,260)	1:212:A:GLY:C	1:213:A:ASN:N	1:213:A:ASN:CA	1:213:A:ASN:C	5	4.66	2.63	3.92
(1,90)	1:101:A:VAL:N	1:101:A:VAL:CA	1:101:A:VAL:C	1:102:A:TYR:N	5	4.12	1.61	4.58
(1,275)	1:224:A:SER:N	1:224:A:SER:CA	1:224:A:SER:C	1:225:A:ALA:N	5	3.45	1.43	2.83
(1,46)	1:32:A:THR:N	1:32:A:THR:CA	1:32:A:THR:C	1:33:A:ILE:N	5	2.62	0.99	2.41
(1,33)	1:21:A:GLU:C	1:22:A:ILE:N	1:22:A:ILE:CA	1:22:A:ILE:C	5	2.38	0.87	2.14
(1,259)	1:212:A:GLY:N	1:212:A:GLY:CA	1:212:A:GLY:C	1:213:A:ASN:N	4	8.74	4.94	9.46
(1,224)	1:185:A:GLY:C	1:186:A:ALA:N	1:186:A:ALA:CA	1:186:A:ALA:C	4	6.91	5.61	5.8
(1,257)	1:211:A:TYR:N	1:211:A:TYR:CA	1:211:A:TYR:C	1:212:A:GLY:N	4	5.7	1.67	4.9
(1,201)	1:170:A:VAL:C	1:171:A:GLN:N	1:171:A:GLN:CA	1:171:A:GLN:C	4	4.96	1.17	5.28
(1,235)	1:191:A:PHE:N	1:191:A:PHE:CA	1:191:A:PHE:C	1:192:A:SER:N	4	4.66	1.03	4.9
(1,281)	1:229:A:THR:N	1:229:A:THR:CA	1:229:A:THR:C	1:230:A:GLU:N	4	4.28	1.82	3.9
(1,207)	1:174:A:PRO:N	1:174:A:PRO:CA	1:174:A:PRO:C	1:175:A:GLY:N	4	4.11	1.58	4.1
(1,38)	1:28:A:ILE:N	1:28:A:ILE:CA	1:28:A:ILE:C	1:29:A:LEU:N	4	2.9	1.16	2.89
(1,34)	1:22:A:ILE:N	1:22:A:ILE:CA	1:22:A:ILE:C	1:23:A:SER:N	4	2.86	1.02	2.84
(1,158)	1:144:A:TRP:N	1:144:A:TRP:CA	1:144:A:TRP:C	1:145:A:LYS:N	4	2.82	0.98	3.0
(1,66)	1:83:A:ALA:N	1:83:A:ALA:CA	1:83:A:ALA:C	1:84:A:TYR:N	4	2.75	0.53	2.91
(1,245)	1:201:A:ILE:N	1:201:A:ILE:CA	1:201:A:ILE:C	1:202:A:ASP:N	4	2.69	0.28	2.72
(1,139)	1:132:A:ASP:C	1:133:A:VAL:N	1:133:A:VAL:CA	1:133:A:VAL:C	4	2.68	0.88	2.75
(1,108)	1:113:A:VAL:N	1:113:A:VAL:CA	1:113:A:VAL:C	1:114:A:THR:N	4	2.59	1.22	2.37
(1,156)	1:143:A:GLY:N	1:143:A:GLY:CA	1:143:A:GLY:C	1:144:A:TRP:N	4	2.5	0.84	2.64
(1,271)	1:222:A:TYR:N	1:222:A:TYR:CA	1:222:A:TYR:C	1:223:A:VAL:N	4	2.39	1.2	2.35
(1,199)	1:169:A:ALA:C	1:170:A:VAL:N	1:170:A:VAL:CA	1:170:A:VAL:C	4	2.38	0.78	2.12
(1,68)	1:84:A:TYR:N	1:84:A:TYR:CA	1:84:A:TYR:C	1:85:A:ARG:N	4	2.35	0.62	2.28
(1,50)	1:38:A:SER:N	1:38:A:SER:CA	1:38:A:SER:C	1:39:A:MET:N	4	2.24	0.79	2.04
(1,209)	1:175:A:GLY:N	1:175:A:GLY:CA	1:175:A:GLY:C	1:176:A:LEU:N	4	2.22	0.87	2.19
(1,35)	1:25:A:SER:C	1:26:A:SER:N	1:26:A:SER:CA	1:26:A:SER:C	4	1.75	0.69	1.41
(1,49)	1:37:A:GLY:C	1:38:A:SER:N	1:38:A:SER:CA	1:38:A:SER:C	4	1.52	0.29	1.54
(1,225)	1:186:A:ALA:N	1:186:A:ALA:CA	1:186:A:ALA:C	1:187:A:VAL:N	3	19.4	12.75	24.11
(1,23)	1:16:A:TRP:C	1:17:A:GLU:N	1:17:A:GLU:CA	1:17:A:GLU:C	3	12.09	1.35	12.99
(1,26)	1:18:A:ASP:N	1:18:A:ASP:CA	1:18:A:ASP:C	1:19:A:GLN:N	3	8.52	3.9	9.41
(1,22)	1:16:A:TRP:N	1:16:A:TRP:CA	1:16:A:TRP:C	1:17:A:GLU:N	3	6.25	1.27	5.9
(1,84)	1:96:A:GLN:N	1:96:A:GLN:CA	1:96:A:GLN:C	1:97:A:ILE:N	3	6.18	0.45	6.49
(1,25)	1:17:A:GLU:C	1:18:A:ASP:N	1:18:A:ASP:CA	1:18:A:ASP:C	3	6.02	2.17	7.42
(1,27)	1:18:A:ASP:C	1:19:A:GLN:N	1:19:A:GLN:CA	1:19:A:GLN:C	3	4.69	2.44	5.09
(1,29)	1:19:A:GLN:C	1:20:A:ALA:N	1:20:A:ALA:CA	1:20:A:ALA:C	3	4.55	3.26	3.54
(1,175)	1:156:A:VAL:N	1:156:A:VAL:CA	1:156:A:VAL:C	1:157:A:GLN:N	3	4.42	2.3	2.83
(1,163)	1:148:A:GLY:C	1:149:A:GLU:N	1:149:A:GLU:CA	1:149:A:GLU:C	3	4.28	4.3	1.38

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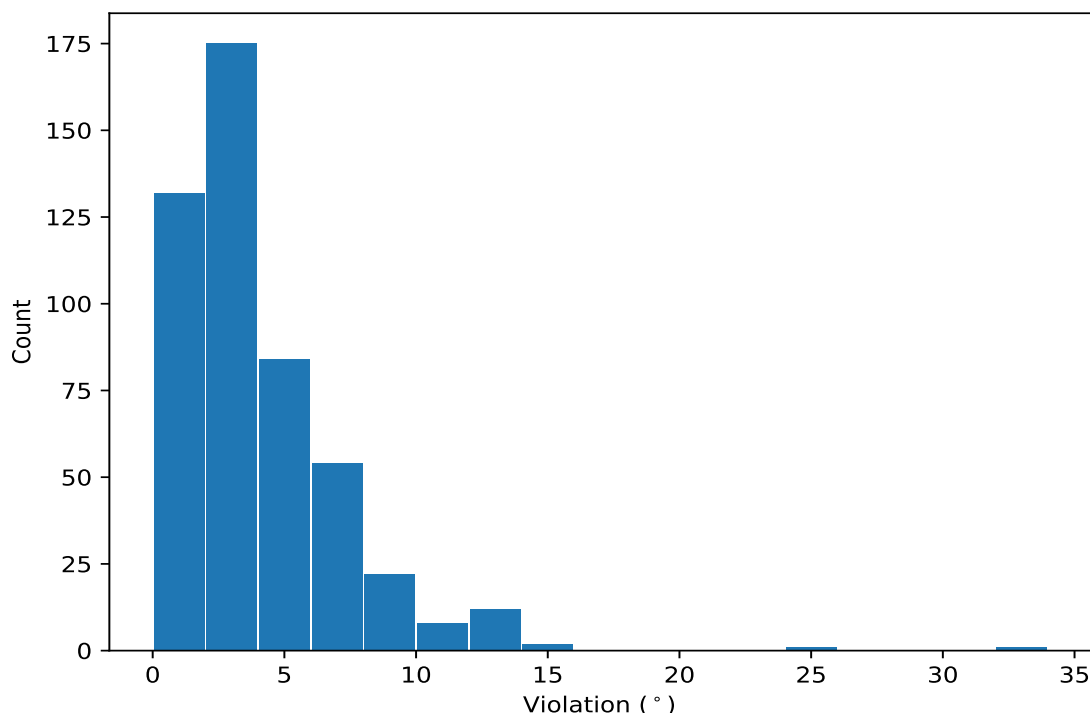
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,267)	1:217:A:THR:N	1:217:A:THR:CA	1:217:A:THR:C	1:218:A:ARG:N	3	3.97	0.6	3.84
(1,83)	1:95:A:SER:C	1:96:A:GLN:N	1:96:A:GLN:CA	1:96:A:GLN:C	3	3.73	3.21	1.62
(1,58)	1:66:A:TRP:N	1:66:A:TRP:CA	1:66:A:TRP:C	1:67:A:ASP:N	3	3.39	1.89	2.97
(1,4)	1:7:A:GLU:N	1:7:A:GLU:CA	1:7:A:GLU:C	1:8:A:LEU:N	3	3.34	1.47	2.86
(1,233)	1:190:A:ASP:N	1:190:A:ASP:CA	1:190:A:ASP:C	1:191:A:PHE:N	3	3.14	1.14	2.48
(1,166)	1:150:A:TRP:N	1:150:A:TRP:CA	1:150:A:TRP:C	1:151:A:LYS:N	3	3.05	1.53	2.87
(1,136)	1:131:A:ALA:N	1:131:A:ALA:CA	1:131:A:ALA:C	1:132:A:ASP:N	3	2.83	0.83	2.71
(1,110)	1:115:A:ARG:N	1:115:A:ARG:CA	1:115:A:ARG:C	1:116:A:GLY:N	3	2.48	0.86	2.31
(1,37)	1:27:A:PRO:C	1:28:A:ILE:N	1:28:A:ILE:CA	1:28:A:ILE:C	3	2.35	0.06	2.37
(1,159)	1:144:A:TRP:C	1:145:A:LYS:N	1:145:A:LYS:CA	1:145:A:LYS:C	3	2.11	0.67	2.2
(1,264)	1:215:A:VAL:C	1:216:A:VAL:N	1:216:A:VAL:CA	1:216:A:VAL:C	3	1.96	0.65	2.04
(1,270)	1:221:A:ALA:C	1:222:A:TYR:N	1:222:A:TYR:CA	1:222:A:TYR:C	3	1.75	0.2	1.82
(1,153)	1:141:A:GLY:C	1:142:A:GLY:N	1:142:A:GLY:CA	1:142:A:GLY:C	3	1.53	0.37	1.42
(1,154)	1:142:A:GLY:N	1:142:A:GLY:CA	1:142:A:GLY:C	1:143:A:GLY:N	2	7.69	1.53	7.69
(1,155)	1:142:A:GLY:C	1:143:A:GLY:N	1:143:A:GLY:CA	1:143:A:GLY:C	2	6.13	1.56	6.13
(1,31)	1:20:A:ALA:C	1:21:A:GLU:N	1:21:A:GLU:CA	1:21:A:GLU:C	2	5.98	2.45	5.98
(1,62)	1:68:A:VAL:N	1:68:A:VAL:CA	1:68:A:VAL:C	1:69:A:PRO:N	2	5.18	2.53	5.18
(1,40)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	1:30:A:SER:N	2	4.68	0.08	4.68
(1,99)	1:107:A:PHE:C	1:108:A:HIS:N	1:108:A:HIS:CA	1:108:A:HIS:C	2	4.58	1.3	4.58
(1,9)	1:9:A:GLU:C	1:10:A:ARG:N	1:10:A:ARG:CA	1:10:A:ARG:C	2	3.68	1.18	3.68
(1,279)	1:228:A:GLN:N	1:228:A:GLN:CA	1:228:A:GLN:C	1:229:A:THR:N	2	3.4	0.44	3.4
(1,167)	1:150:A:TRP:C	1:151:A:LYS:N	1:151:A:LYS:CA	1:151:A:LYS:C	2	3.36	1.46	3.36
(1,54)	1:40:A:SER:N	1:40:A:SER:CA	1:40:A:SER:C	1:41:A:ILE:N	2	3.32	1.17	3.32
(1,203)	1:171:A:GLN:C	1:172:A:THR:N	1:172:A:THR:CA	1:172:A:THR:C	2	3.2	0.46	3.2
(1,204)	1:172:A:THR:N	1:172:A:THR:CA	1:172:A:THR:C	1:173:A:LYS:N	2	3.2	0.59	3.2
(1,196)	1:168:A:ARG:N	1:168:A:ARG:CA	1:168:A:ARG:C	1:169:A:ALA:N	2	2.82	0.27	2.82
(1,55)	1:40:A:SER:C	1:41:A:ILE:N	1:41:A:ILE:CA	1:41:A:ILE:C	2	2.68	0.27	2.68
(1,183)	1:160:A:ALA:N	1:160:A:ALA:CA	1:160:A:ALA:C	1:161:A:LEU:N	2	2.6	1.37	2.6
(1,283)	1:232:A:SER:N	1:232:A:SER:CA	1:232:A:SER:C	1:233:A:ILE:N	2	2.6	0.26	2.6
(1,190)	1:164:A:GLY:N	1:164:A:GLY:CA	1:164:A:GLY:C	1:165:A:LYS:N	2	2.58	0.45	2.58
(1,278)	1:227:A:ALA:C	1:228:A:GLN:N	1:228:A:GLN:CA	1:228:A:GLN:C	2	2.56	1.42	2.56
(1,8)	1:9:A:GLU:N	1:9:A:GLU:CA	1:9:A:GLU:C	1:10:A:ARG:N	2	2.51	1.45	2.51
(1,230)	1:188:A:SER:C	1:189:A:LEU:N	1:189:A:LEU:CA	1:189:A:LEU:C	2	2.09	0.38	2.09
(1,112)	1:116:A:GLY:N	1:116:A:GLY:CA	1:116:A:GLY:C	1:117:A:ALA:N	2	2.0	0.03	2.0
(1,63)	1:69:A:PRO:C	1:70:A:SER:N	1:70:A:SER:CA	1:70:A:SER:C	2	1.94	0.42	1.94
(1,43)	1:30:A:SER:C	1:31:A:ILE:N	1:31:A:ILE:CA	1:31:A:ILE:C	2	1.86	0.34	1.86
(1,195)	1:167:A:PRO:C	1:168:A:ARG:N	1:168:A:ARG:CA	1:168:A:ARG:C	2	1.86	0.32	1.86
(1,116)	1:119:A:LEU:N	1:119:A:LEU:CA	1:119:A:LEU:C	1:120:A:MET:N	2	1.85	0.03	1.85
(1,261)	1:213:A:ASN:N	1:213:A:ASN:CA	1:213:A:ASN:C	1:214:A:GLY:N	2	1.82	0.66	1.82
(1,96)	1:106:A:THR:N	1:106:A:THR:CA	1:106:A:THR:C	1:107:A:PHE:N	2	1.74	0.48	1.74
(1,131)	1:128:A:PRO:C	1:129:A:SER:N	1:129:A:SER:CA	1:129:A:SER:C	2	1.7	0.34	1.7
(1,212)	1:176:A:LEU:C	1:177:A:PHE:N	1:177:A:PHE:CA	1:177:A:PHE:C	2	1.5	0.38	1.5
(1,218)	1:182:A:GLY:C	1:183:A:THR:N	1:183:A:THR:CA	1:183:A:THR:C	2	1.42	0.22	1.42
(1,102)	1:109:A:THR:N	1:109:A:THR:CA	1:109:A:THR:C	1:110:A:MET:N	2	1.42	0.39	1.42
(1,220)	1:183:A:THR:C	1:184:A:ILE:N	1:184:A:ILE:CA	1:184:A:ILE:C	2	1.42	0.19	1.42
(1,19)	1:14:A:VAL:C	1:15:A:LYS:N	1:15:A:LYS:CA	1:15:A:LYS:C	2	1.26	0.18	1.26
(1,12)	1:11:A:ALA:N	1:11:A:ALA:CA	1:11:A:ALA:C	1:12:A:ALA:N	2	1.21	0.19	1.21

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 (°)
(1,225)	1:186:A:ALA:N	1:186:A:ALA:CA	1:186:A:ALA:C	1:187:A:VAL:N	10	32.12
(1,225)	1:186:A:ALA:N	1:186:A:ALA:CA	1:186:A:ALA:C	1:187:A:VAL:N	9	24.11
(1,224)	1:185:A:GLY:C	1:186:A:ALA:N	1:186:A:ALA:CA	1:186:A:ALA:C	9	14.85
(1,78)	1:89:A:LYS:N	1:89:A:LYS:CA	1:89:A:LYS:C	1:90:A:GLY:N	9	14.27
(1,60)	1:67:A:ASP:N	1:67:A:ASP:CA	1:67:A:ASP:C	1:68:A:VAL:N	3	13.91
(1,259)	1:212:A:GLY:N	1:212:A:GLY:CA	1:212:A:GLY:C	1:213:A:ASN:N	10	13.78
(1,61)	1:67:A:ASP:C	1:68:A:VAL:N	1:68:A:VAL:CA	1:68:A:VAL:C	3	13.77
(1,18)	1:14:A:VAL:N	1:14:A:VAL:CA	1:14:A:VAL:C	1:15:A:LYS:N	7	13.49
(1,120)	1:121:A:HIS:N	1:121:A:HIS:CA	1:121:A:HIS:C	1:122:A:LYS:N	7	13.4
(1,259)	1:212:A:GLY:N	1:212:A:GLY:CA	1:212:A:GLY:C	1:213:A:ASN:N	6	13.29
(1,79)	1:89:A:LYS:C	1:90:A:GLY:N	1:90:A:GLY:CA	1:90:A:GLY:C	4	13.28
(1,78)	1:89:A:LYS:N	1:89:A:LYS:CA	1:89:A:LYS:C	1:90:A:GLY:N	5	13.22
(1,23)	1:16:A:TRP:C	1:17:A:GLU:N	1:17:A:GLU:CA	1:17:A:GLU:C	7	13.1
(1,23)	1:16:A:TRP:C	1:17:A:GLU:N	1:17:A:GLU:CA	1:17:A:GLU:C	2	12.99

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,26)	1:18:A:ASP:N	1:18:A:ASP:CA	1:18:A:ASP:C	1:19:A:GLN:N	7	12.78
(1,85)	1:96:A:GLN:C	1:97:A:ILE:N	1:97:A:ILE:CA	1:97:A:ILE:C	7	12.48
(1,79)	1:89:A:LYS:C	1:90:A:GLY:N	1:90:A:GLY:CA	1:90:A:GLY:C	2	11.57
(1,79)	1:89:A:LYS:C	1:90:A:GLY:N	1:90:A:GLY:CA	1:90:A:GLY:C	9	11.21
(1,87)	1:98:A:GLY:C	1:99:A:ALA:N	1:99:A:ALA:CA	1:99:A:ALA:C	1	10.76
(1,79)	1:89:A:LYS:C	1:90:A:GLY:N	1:90:A:GLY:CA	1:90:A:GLY:C	3	10.42
(1,163)	1:148:A:GLY:C	1:149:A:GLU:N	1:149:A:GLU:CA	1:149:A:GLU:C	8	10.36
(1,79)	1:89:A:LYS:C	1:90:A:GLY:N	1:90:A:GLY:CA	1:90:A:GLY:C	6	10.2
(1,23)	1:16:A:TRP:C	1:17:A:GLU:N	1:17:A:GLU:CA	1:17:A:GLU:C	9	10.18
(1,24)	1:17:A:GLU:N	1:17:A:GLU:CA	1:17:A:GLU:C	1:18:A:ASP:N	9	10.11
(1,78)	1:89:A:LYS:N	1:89:A:LYS:CA	1:89:A:LYS:C	1:90:A:GLY:N	10	9.83
(1,260)	1:212:A:GLY:C	1:213:A:ASN:N	1:213:A:ASN:CA	1:213:A:ASN:C	6	9.74
(1,103)	1:110:A:MET:C	1:111:A:TRP:N	1:111:A:TRP:CA	1:111:A:TRP:C	7	9.72
(1,224)	1:185:A:GLY:C	1:186:A:ALA:N	1:186:A:ALA:CA	1:186:A:ALA:C	10	9.53
(1,26)	1:18:A:ASP:N	1:18:A:ASP:CA	1:18:A:ASP:C	1:19:A:GLN:N	2	9.41
(1,154)	1:142:A:GLY:N	1:142:A:GLY:CA	1:142:A:GLY:C	1:143:A:GLY:N	4	9.22
(1,86)	1:97:A:ILE:N	1:97:A:ILE:CA	1:97:A:ILE:C	1:98:A:GLY:N	9	9.15
(1,80)	1:90:A:GLY:N	1:90:A:GLY:CA	1:90:A:GLY:C	1:91:A:ILE:N	7	9.14
(1,79)	1:89:A:LYS:C	1:90:A:GLY:N	1:90:A:GLY:CA	1:90:A:GLY:C	10	9.04
(1,29)	1:19:A:GLN:C	1:20:A:ALA:N	1:20:A:ALA:CA	1:20:A:ALA:C	2	8.95
(1,59)	1:66:A:TRP:C	1:67:A:ASP:N	1:67:A:ASP:CA	1:67:A:ASP:C	9	8.89
(1,265)	1:216:A:VAL:N	1:216:A:VAL:CA	1:216:A:VAL:C	1:217:A:THR:N	7	8.86
(1,103)	1:110:A:MET:C	1:111:A:TRP:N	1:111:A:TRP:CA	1:111:A:TRP:C	3	8.76
(1,253)	1:206:A:LYS:N	1:206:A:LYS:CA	1:206:A:LYS:C	1:207:A:VAL:N	2	8.7
(1,24)	1:17:A:GLU:N	1:17:A:GLU:CA	1:17:A:GLU:C	1:18:A:ASP:N	7	8.65
(1,257)	1:211:A:TYR:N	1:211:A:TYR:CA	1:211:A:TYR:C	1:212:A:GLY:N	5	8.58
(1,18)	1:14:A:VAL:N	1:14:A:VAL:CA	1:14:A:VAL:C	1:15:A:LYS:N	8	8.56
(1,31)	1:20:A:ALA:C	1:21:A:GLU:N	1:21:A:GLU:CA	1:21:A:GLU:C	7	8.43
(1,253)	1:206:A:LYS:N	1:206:A:LYS:CA	1:206:A:LYS:C	1:207:A:VAL:N	10	8.39
(1,83)	1:95:A:SER:C	1:96:A:GLN:N	1:96:A:GLN:CA	1:96:A:GLN:C	1	8.26
(1,32)	1:21:A:GLU:N	1:21:A:GLU:CA	1:21:A:GLU:C	1:22:A:ILE:N	10	8.13
(1,86)	1:97:A:ILE:N	1:97:A:ILE:CA	1:97:A:ILE:C	1:98:A:GLY:N	5	8.06
(1,22)	1:16:A:TRP:N	1:16:A:TRP:CA	1:16:A:TRP:C	1:17:A:GLU:N	2	7.95
(1,78)	1:89:A:LYS:N	1:89:A:LYS:CA	1:89:A:LYS:C	1:90:A:GLY:N	6	7.9
(1,79)	1:89:A:LYS:C	1:90:A:GLY:N	1:90:A:GLY:CA	1:90:A:GLY:C	1	7.88
(1,45)	1:31:A:ILE:C	1:32:A:THR:N	1:32:A:THR:CA	1:32:A:THR:C	2	7.78
(1,76)	1:88:A:GLN:N	1:88:A:GLN:CA	1:88:A:GLN:C	1:89:A:LYS:N	1	7.73
(1,62)	1:68:A:VAL:N	1:68:A:VAL:CA	1:68:A:VAL:C	1:69:A:PRO:N	3	7.71
(1,18)	1:14:A:VAL:N	1:14:A:VAL:CA	1:14:A:VAL:C	1:15:A:LYS:N	9	7.7
(1,155)	1:142:A:GLY:C	1:143:A:GLY:N	1:143:A:GLY:CA	1:143:A:GLY:C	4	7.69
(1,101)	1:108:A:HIS:C	1:109:A:THR:N	1:109:A:THR:CA	1:109:A:THR:C	10	7.68
(1,25)	1:17:A:GLU:C	1:18:A:ASP:N	1:18:A:ASP:CA	1:18:A:ASP:C	9	7.68
(1,175)	1:156:A:VAL:N	1:156:A:VAL:CA	1:156:A:VAL:C	1:157:A:GLN:N	5	7.67
(1,178)	1:157:A:GLN:C	1:158:A:VAL:N	1:158:A:VAL:CA	1:158:A:VAL:C	7	7.6
(1,60)	1:67:A:ASP:N	1:67:A:ASP:CA	1:67:A:ASP:C	1:68:A:VAL:N	1	7.58
(1,18)	1:14:A:VAL:N	1:14:A:VAL:CA	1:14:A:VAL:C	1:15:A:LYS:N	3	7.52
(1,27)	1:18:A:ASP:C	1:19:A:GLN:N	1:19:A:GLN:CA	1:19:A:GLN:C	7	7.46
(1,103)	1:110:A:MET:C	1:111:A:TRP:N	1:111:A:TRP:CA	1:111:A:TRP:C	4	7.45
(1,103)	1:110:A:MET:C	1:111:A:TRP:N	1:111:A:TRP:CA	1:111:A:TRP:C	6	7.44
(1,25)	1:17:A:GLU:C	1:18:A:ASP:N	1:18:A:ASP:CA	1:18:A:ASP:C	7	7.42
(1,61)	1:67:A:ASP:C	1:68:A:VAL:N	1:68:A:VAL:CA	1:68:A:VAL:C	5	7.33

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,86)	1:97:A:ILE:N	1:97:A:ILE:CA	1:97:A:ILE:C	1:98:A:GLY:N	4	7.32
(1,18)	1:14:A:VAL:N	1:14:A:VAL:CA	1:14:A:VAL:C	1:15:A:LYS:N	4	7.29
(1,103)	1:110:A:MET:C	1:111:A:TRP:N	1:111:A:TRP:CA	1:111:A:TRP:C	10	7.28
(1,78)	1:89:A:LYS:N	1:89:A:LYS:CA	1:89:A:LYS:C	1:90:A:GLY:N	2	7.21
(1,265)	1:216:A:VAL:N	1:216:A:VAL:CA	1:216:A:VAL:C	1:217:A:THR:N	5	7.14
(1,124)	1:124:A:LYS:N	1:124:A:LYS:CA	1:124:A:LYS:C	1:125:A:ARG:N	7	7.12
(1,88)	1:99:A:ALA:N	1:99:A:ALA:CA	1:99:A:ALA:C	1:100:A:GLY:N	1	7.12
(1,79)	1:89:A:LYS:C	1:90:A:GLY:N	1:90:A:GLY:CA	1:90:A:GLY:C	5	7.11
(1,18)	1:14:A:VAL:N	1:14:A:VAL:CA	1:14:A:VAL:C	1:15:A:LYS:N	6	7.09
(1,18)	1:14:A:VAL:N	1:14:A:VAL:CA	1:14:A:VAL:C	1:15:A:LYS:N	5	7.07
(1,61)	1:67:A:ASP:C	1:68:A:VAL:N	1:68:A:VAL:CA	1:68:A:VAL:C	8	6.93
(1,18)	1:14:A:VAL:N	1:14:A:VAL:CA	1:14:A:VAL:C	1:15:A:LYS:N	1	6.91
(1,281)	1:229:A:THR:N	1:229:A:THR:CA	1:229:A:THR:C	1:230:A:GLU:N	10	6.9
(1,120)	1:121:A:HIS:N	1:121:A:HIS:CA	1:121:A:HIS:C	1:122:A:LYS:N	6	6.9
(1,234)	1:190:A:ASP:C	1:191:A:PHE:N	1:191:A:PHE:CA	1:191:A:PHE:C	7	6.87
(1,78)	1:89:A:LYS:N	1:89:A:LYS:CA	1:89:A:LYS:C	1:90:A:GLY:N	3	6.8
(1,103)	1:110:A:MET:C	1:111:A:TRP:N	1:111:A:TRP:CA	1:111:A:TRP:C	1	6.72
(1,253)	1:206:A:LYS:N	1:206:A:LYS:CA	1:206:A:LYS:C	1:207:A:VAL:N	9	6.7
(1,120)	1:121:A:HIS:N	1:121:A:HIS:CA	1:121:A:HIS:C	1:122:A:LYS:N	10	6.69
(1,78)	1:89:A:LYS:N	1:89:A:LYS:CA	1:89:A:LYS:C	1:90:A:GLY:N	1	6.64
(1,198)	1:169:A:ALA:N	1:169:A:ALA:CA	1:169:A:ALA:C	1:170:A:VAL:N	5	6.56
(1,84)	1:96:A:GLN:N	1:96:A:GLN:CA	1:96:A:GLN:C	1:97:A:ILE:N	8	6.51
(1,84)	1:96:A:GLN:N	1:96:A:GLN:CA	1:96:A:GLN:C	1:97:A:ILE:N	10	6.49
(1,61)	1:67:A:ASP:C	1:68:A:VAL:N	1:68:A:VAL:CA	1:68:A:VAL:C	6	6.47
(1,120)	1:121:A:HIS:N	1:121:A:HIS:CA	1:121:A:HIS:C	1:122:A:LYS:N	4	6.42
(1,80)	1:90:A:GLY:N	1:90:A:GLY:CA	1:90:A:GLY:C	1:91:A:ILE:N	10	6.41
(1,103)	1:110:A:MET:C	1:111:A:TRP:N	1:111:A:TRP:CA	1:111:A:TRP:C	2	6.28
(1,28)	1:19:A:GLN:N	1:19:A:GLN:CA	1:19:A:GLN:C	1:20:A:ALA:N	7	6.27
(1,124)	1:124:A:LYS:N	1:124:A:LYS:CA	1:124:A:LYS:C	1:125:A:ARG:N	10	6.25
(1,103)	1:110:A:MET:C	1:111:A:TRP:N	1:111:A:TRP:CA	1:111:A:TRP:C	5	6.25
(1,207)	1:174:A:PRO:N	1:174:A:PRO:CA	1:174:A:PRO:C	1:175:A:GLY:N	6	6.24
(1,265)	1:216:A:VAL:N	1:216:A:VAL:CA	1:216:A:VAL:C	1:217:A:THR:N	2	6.23
(1,201)	1:170:A:VAL:C	1:171:A:GLN:N	1:171:A:GLN:CA	1:171:A:GLN:C	1	6.21
(1,154)	1:142:A:GLY:N	1:142:A:GLY:CA	1:142:A:GLY:C	1:143:A:GLY:N	3	6.16
(1,275)	1:224:A:SER:N	1:224:A:SER:CA	1:224:A:SER:C	1:225:A:ALA:N	7	6.08
(1,222)	1:184:A:ILE:C	1:185:A:GLY:N	1:185:A:GLY:CA	1:185:A:GLY:C	6	5.98
(1,59)	1:66:A:TRP:C	1:67:A:ASP:N	1:67:A:ASP:CA	1:67:A:ASP:C	6	5.95
(1,22)	1:16:A:TRP:N	1:16:A:TRP:CA	1:16:A:TRP:C	1:17:A:GLU:N	9	5.9
(1,99)	1:107:A:PHE:C	1:108:A:HIS:N	1:108:A:HIS:CA	1:108:A:HIS:C	7	5.88
(1,58)	1:66:A:TRP:N	1:66:A:TRP:CA	1:66:A:TRP:C	1:67:A:ASP:N	4	5.88
(1,85)	1:96:A:GLN:C	1:97:A:ILE:N	1:97:A:ILE:CA	1:97:A:ILE:C	8	5.87
(1,121)	1:122:A:LYS:C	1:123:A:GLY:N	1:123:A:GLY:CA	1:123:A:GLY:C	7	5.8
(1,235)	1:191:A:PHE:N	1:191:A:PHE:CA	1:191:A:PHE:C	1:192:A:SER:N	7	5.78
(1,198)	1:169:A:ALA:N	1:169:A:ALA:CA	1:169:A:ALA:C	1:170:A:VAL:N	2	5.74
(1,101)	1:108:A:HIS:C	1:109:A:THR:N	1:109:A:THR:CA	1:109:A:THR:C	8	5.67
(1,78)	1:89:A:LYS:N	1:89:A:LYS:CA	1:89:A:LYS:C	1:90:A:GLY:N	4	5.67
(1,265)	1:216:A:VAL:N	1:216:A:VAL:CA	1:216:A:VAL:C	1:217:A:THR:N	1	5.66
(1,259)	1:212:A:GLY:N	1:212:A:GLY:CA	1:212:A:GLY:C	1:213:A:ASN:N	4	5.62
(1,90)	1:101:A:VAL:N	1:101:A:VAL:CA	1:101:A:VAL:C	1:102:A:TYR:N	3	5.57
(1,90)	1:101:A:VAL:N	1:101:A:VAL:CA	1:101:A:VAL:C	1:102:A:TYR:N	7	5.57
(1,84)	1:96:A:GLN:N	1:96:A:GLN:CA	1:96:A:GLN:C	1:97:A:ILE:N	4	5.55

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,101)	1:108:A:HIS:C	1:109:A:THR:N	1:109:A:THR:CA	1:109:A:THR:C	7	5.51
(1,60)	1:67:A:ASP:N	1:67:A:ASP:CA	1:67:A:ASP:C	1:68:A:VAL:N	5	5.5
(1,201)	1:170:A:VAL:C	1:171:A:GLN:N	1:171:A:GLN:CA	1:171:A:GLN:C	6	5.47
(1,18)	1:14:A:VAL:N	1:14:A:VAL:CA	1:14:A:VAL:C	1:15:A:LYS:N	10	5.43
(1,222)	1:184:A:ILE:C	1:185:A:GLY:N	1:185:A:GLY:CA	1:185:A:GLY:C	5	5.39
(1,222)	1:184:A:ILE:C	1:185:A:GLY:N	1:185:A:GLY:CA	1:185:A:GLY:C	1	5.38
(1,59)	1:66:A:TRP:C	1:67:A:ASP:N	1:67:A:ASP:CA	1:67:A:ASP:C	2	5.37
(1,4)	1:7:A:GLU:N	1:7:A:GLU:CA	1:7:A:GLU:C	1:8:A:LEU:N	5	5.33
(1,235)	1:191:A:PHE:N	1:191:A:PHE:CA	1:191:A:PHE:C	1:192:A:SER:N	5	5.3
(1,80)	1:90:A:GLY:N	1:90:A:GLY:CA	1:90:A:GLY:C	1:91:A:ILE:N	2	5.3
(1,103)	1:110:A:MET:C	1:111:A:TRP:N	1:111:A:TRP:CA	1:111:A:TRP:C	9	5.28
(1,178)	1:157:A:GLN:C	1:158:A:VAL:N	1:158:A:VAL:CA	1:158:A:VAL:C	5	5.26
(1,85)	1:96:A:GLN:C	1:97:A:ILE:N	1:97:A:ILE:CA	1:97:A:ILE:C	10	5.24
(1,2)	1:6:A:LEU:N	1:6:A:LEU:CA	1:6:A:LEU:C	1:7:A:GLU:N	5	5.18
(1,124)	1:124:A:LYS:N	1:124:A:LYS:CA	1:124:A:LYS:C	1:125:A:ARG:N	6	5.14
(1,201)	1:170:A:VAL:C	1:171:A:GLN:N	1:171:A:GLN:CA	1:171:A:GLN:C	8	5.1
(1,27)	1:18:A:ASP:C	1:19:A:GLN:N	1:19:A:GLN:CA	1:19:A:GLN:C	2	5.09
(1,28)	1:19:A:GLN:N	1:19:A:GLN:CA	1:19:A:GLN:C	1:20:A:ALA:N	5	5.08
(1,61)	1:67:A:ASP:C	1:68:A:VAL:N	1:68:A:VAL:CA	1:68:A:VAL:C	4	5.06
(1,178)	1:157:A:GLN:C	1:158:A:VAL:N	1:158:A:VAL:CA	1:158:A:VAL:C	2	5.05
(1,281)	1:229:A:THR:N	1:229:A:THR:CA	1:229:A:THR:C	1:230:A:GLU:N	6	5.04
(1,166)	1:150:A:TRP:N	1:150:A:TRP:CA	1:150:A:TRP:C	1:151:A:LYS:N	9	5.01
(1,56)	1:41:A:ILE:N	1:41:A:ILE:CA	1:41:A:ILE:C	1:42:A:LYS:N	2	5.01
(1,45)	1:31:A:ILE:C	1:32:A:THR:N	1:32:A:THR:CA	1:32:A:THR:C	1	5.01
(1,257)	1:211:A:TYR:N	1:211:A:TYR:CA	1:211:A:TYR:C	1:212:A:GLY:N	2	4.98
(1,222)	1:184:A:ILE:C	1:185:A:GLY:N	1:185:A:GLY:CA	1:185:A:GLY:C	8	4.92
(1,22)	1:16:A:TRP:N	1:16:A:TRP:CA	1:16:A:TRP:C	1:17:A:GLU:N	7	4.9
(1,18)	1:14:A:VAL:N	1:14:A:VAL:CA	1:14:A:VAL:C	1:15:A:LYS:N	2	4.88
(1,9)	1:9:A:GLU:C	1:10:A:ARG:N	1:10:A:ARG:CA	1:10:A:ARG:C	5	4.86
(1,257)	1:211:A:TYR:N	1:211:A:TYR:CA	1:211:A:TYR:C	1:212:A:GLY:N	7	4.83
(1,85)	1:96:A:GLN:C	1:97:A:ILE:N	1:97:A:ILE:CA	1:97:A:ILE:C	9	4.83
(1,167)	1:150:A:TRP:C	1:151:A:LYS:N	1:151:A:LYS:CA	1:151:A:LYS:C	2	4.82
(1,207)	1:174:A:PRO:N	1:174:A:PRO:CA	1:174:A:PRO:C	1:175:A:GLY:N	3	4.81
(1,61)	1:67:A:ASP:C	1:68:A:VAL:N	1:68:A:VAL:CA	1:68:A:VAL:C	9	4.79
(1,40)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	1:30:A:SER:N	1	4.77
(1,267)	1:217:A:THR:N	1:217:A:THR:CA	1:217:A:THR:C	1:218:A:ARG:N	6	4.76
(1,233)	1:190:A:ASP:N	1:190:A:ASP:CA	1:190:A:ASP:C	1:191:A:PHE:N	7	4.75
(1,61)	1:67:A:ASP:C	1:68:A:VAL:N	1:68:A:VAL:CA	1:68:A:VAL:C	2	4.73
(1,222)	1:184:A:ILE:C	1:185:A:GLY:N	1:185:A:GLY:CA	1:185:A:GLY:C	2	4.72
(1,124)	1:124:A:LYS:N	1:124:A:LYS:CA	1:124:A:LYS:C	1:125:A:ARG:N	2	4.68
(1,124)	1:124:A:LYS:N	1:124:A:LYS:CA	1:124:A:LYS:C	1:125:A:ARG:N	1	4.67
(1,198)	1:169:A:ALA:N	1:169:A:ALA:CA	1:169:A:ALA:C	1:170:A:VAL:N	4	4.62
(1,40)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	1:30:A:SER:N	3	4.6
(1,90)	1:101:A:VAL:N	1:101:A:VAL:CA	1:101:A:VAL:C	1:102:A:TYR:N	8	4.58
(1,178)	1:157:A:GLN:C	1:158:A:VAL:N	1:158:A:VAL:CA	1:158:A:VAL:C	3	4.57
(1,155)	1:142:A:GLY:C	1:143:A:GLY:N	1:143:A:GLY:CA	1:143:A:GLY:C	3	4.57
(1,46)	1:32:A:THR:N	1:32:A:THR:CA	1:32:A:THR:C	1:33:A:ILE:N	5	4.53
(1,235)	1:191:A:PHE:N	1:191:A:PHE:CA	1:191:A:PHE:C	1:192:A:SER:N	6	4.5
(1,54)	1:40:A:SER:N	1:40:A:SER:CA	1:40:A:SER:C	1:41:A:ILE:N	4	4.48
(1,80)	1:90:A:GLY:N	1:90:A:GLY:CA	1:90:A:GLY:C	1:91:A:ILE:N	9	4.47
(1,108)	1:113:A:VAL:N	1:113:A:VAL:CA	1:113:A:VAL:C	1:114:A:THR:N	8	4.46

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,101)	1:108:A:HIS:C	1:109:A:THR:N	1:109:A:THR:CA	1:109:A:THR:C	3	4.44
(1,257)	1:211:A:TYR:N	1:211:A:TYR:CA	1:211:A:TYR:C	1:212:A:GLY:N	4	4.43
(1,76)	1:88:A:GLN:N	1:88:A:GLN:CA	1:88:A:GLN:C	1:89:A:LYS:N	2	4.42
(1,120)	1:121:A:HIS:N	1:121:A:HIS:CA	1:121:A:HIS:C	1:122:A:LYS:N	2	4.41
(1,124)	1:124:A:LYS:N	1:124:A:LYS:CA	1:124:A:LYS:C	1:125:A:ARG:N	9	4.37
(1,120)	1:121:A:HIS:N	1:121:A:HIS:CA	1:121:A:HIS:C	1:122:A:LYS:N	9	4.37
(1,88)	1:99:A:ALA:N	1:99:A:ALA:CA	1:99:A:ALA:C	1:100:A:GLY:N	5	4.37
(1,61)	1:67:A:ASP:C	1:68:A:VAL:N	1:68:A:VAL:CA	1:68:A:VAL:C	7	4.34
(1,38)	1:28:A:ILE:N	1:28:A:ILE:CA	1:28:A:ILE:C	1:29:A:LEU:N	10	4.33
(1,252)	1:205:A:GLY:C	1:206:A:LYS:N	1:206:A:LYS:CA	1:206:A:LYS:C	8	4.31
(1,34)	1:22:A:ILE:N	1:22:A:ILE:CA	1:22:A:ILE:C	1:23:A:SER:N	8	4.19
(1,45)	1:31:A:ILE:C	1:32:A:THR:N	1:32:A:THR:CA	1:32:A:THR:C	5	4.17
(1,85)	1:96:A:GLN:C	1:97:A:ILE:N	1:97:A:ILE:CA	1:97:A:ILE:C	3	4.1
(1,253)	1:206:A:LYS:N	1:206:A:LYS:CA	1:206:A:LYS:C	1:207:A:VAL:N	5	4.09
(1,28)	1:19:A:GLN:N	1:19:A:GLN:CA	1:19:A:GLN:C	1:20:A:ALA:N	6	4.08
(1,178)	1:157:A:GLN:C	1:158:A:VAL:N	1:158:A:VAL:CA	1:158:A:VAL:C	9	4.04
(1,260)	1:212:A:GLY:C	1:213:A:ASN:N	1:213:A:ASN:CA	1:213:A:ASN:C	10	4.0
(1,158)	1:144:A:TRP:N	1:144:A:TRP:CA	1:144:A:TRP:C	1:145:A:LYS:N	7	3.99
(1,278)	1:227:A:ALA:C	1:228:A:GLN:N	1:228:A:GLN:CA	1:228:A:GLN:C	1	3.98
(1,177)	1:157:A:GLN:N	1:157:A:GLN:CA	1:157:A:GLN:C	1:158:A:VAL:N	8	3.98
(1,188)	1:163:A:PRO:N	1:163:A:PRO:CA	1:163:A:PRO:C	1:164:A:GLY:N	10	3.97
(1,183)	1:160:A:ALA:N	1:160:A:ALA:CA	1:160:A:ALA:C	1:161:A:LEU:N	2	3.97
(1,8)	1:9:A:GLU:N	1:9:A:GLU:CA	1:9:A:GLU:C	1:10:A:ARG:N	10	3.96
(1,71)	1:85:A:ARG:C	1:86:A:ILE:N	1:86:A:ILE:CA	1:86:A:ILE:C	7	3.95
(1,260)	1:212:A:GLY:C	1:213:A:ASN:N	1:213:A:ASN:CA	1:213:A:ASN:C	4	3.92
(1,136)	1:131:A:ALA:N	1:131:A:ALA:CA	1:131:A:ALA:C	1:132:A:ASP:N	6	3.9
(1,267)	1:217:A:THR:N	1:217:A:THR:CA	1:217:A:THR:C	1:218:A:ARG:N	2	3.84
(1,279)	1:228:A:GLN:N	1:228:A:GLN:CA	1:228:A:GLN:C	1:229:A:THR:N	5	3.83
(1,178)	1:157:A:GLN:C	1:158:A:VAL:N	1:158:A:VAL:CA	1:158:A:VAL:C	4	3.83
(1,139)	1:132:A:ASP:C	1:133:A:VAL:N	1:133:A:VAL:CA	1:133:A:VAL:C	9	3.83
(1,204)	1:172:A:THR:N	1:172:A:THR:CA	1:172:A:THR:C	1:173:A:LYS:N	7	3.79
(1,271)	1:222:A:TYR:N	1:222:A:TYR:CA	1:222:A:TYR:C	1:223:A:VAL:N	5	3.78
(1,275)	1:224:A:SER:N	1:224:A:SER:CA	1:224:A:SER:C	1:225:A:ALA:N	3	3.76
(1,86)	1:97:A:ILE:N	1:97:A:ILE:CA	1:97:A:ILE:C	1:98:A:GLY:N	10	3.75
(1,184)	1:160:A:ALA:C	1:161:A:LEU:N	1:161:A:LEU:CA	1:161:A:LEU:C	1	3.71
(1,38)	1:28:A:ILE:N	1:28:A:ILE:CA	1:28:A:ILE:C	1:29:A:LEU:N	7	3.71
(1,124)	1:124:A:LYS:N	1:124:A:LYS:CA	1:124:A:LYS:C	1:125:A:ARG:N	8	3.7
(1,203)	1:171:A:GLN:C	1:172:A:THR:N	1:172:A:THR:CA	1:172:A:THR:C	9	3.66
(1,199)	1:169:A:ALA:C	1:170:A:VAL:N	1:170:A:VAL:CA	1:170:A:VAL:C	3	3.66
(1,90)	1:101:A:VAL:N	1:101:A:VAL:CA	1:101:A:VAL:C	1:102:A:TYR:N	6	3.64
(1,253)	1:206:A:LYS:N	1:206:A:LYS:CA	1:206:A:LYS:C	1:207:A:VAL:N	1	3.63
(1,110)	1:115:A:ARG:N	1:115:A:ARG:CA	1:115:A:ARG:C	1:116:A:GLY:N	8	3.61
(1,265)	1:216:A:VAL:N	1:216:A:VAL:CA	1:216:A:VAL:C	1:217:A:THR:N	10	3.59
(1,28)	1:19:A:GLN:N	1:19:A:GLN:CA	1:19:A:GLN:C	1:20:A:ALA:N	8	3.58
(1,86)	1:97:A:ILE:N	1:97:A:ILE:CA	1:97:A:ILE:C	1:98:A:GLY:N	3	3.56
(1,198)	1:169:A:ALA:N	1:169:A:ALA:CA	1:169:A:ALA:C	1:170:A:VAL:N	6	3.55
(1,260)	1:212:A:GLY:C	1:213:A:ASN:N	1:213:A:ASN:CA	1:213:A:ASN:C	3	3.54
(1,29)	1:19:A:GLN:C	1:20:A:ALA:N	1:20:A:ALA:CA	1:20:A:ALA:C	9	3.54
(1,222)	1:184:A:ILE:C	1:185:A:GLY:N	1:185:A:GLY:CA	1:185:A:GLY:C	4	3.53
(1,31)	1:20:A:ALA:C	1:21:A:GLU:N	1:21:A:GLU:CA	1:21:A:GLU:C	10	3.53
(1,121)	1:122:A:LYS:C	1:123:A:GLY:N	1:123:A:GLY:CA	1:123:A:GLY:C	9	3.52

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,253)	1:206:A:LYS:N	1:206:A:LYS:CA	1:206:A:LYS:C	1:207:A:VAL:N	7	3.49
(1,88)	1:99:A:ALA:N	1:99:A:ALA:CA	1:99:A:ALA:C	1:100:A:GLY:N	6	3.49
(1,156)	1:143:A:GLY:N	1:143:A:GLY:CA	1:143:A:GLY:C	1:144:A:TRP:N	6	3.47
(1,80)	1:90:A:GLY:N	1:90:A:GLY:CA	1:90:A:GLY:C	1:91:A:ILE:N	1	3.46
(1,124)	1:124:A:LYS:N	1:124:A:LYS:CA	1:124:A:LYS:C	1:125:A:ARG:N	4	3.43
(1,34)	1:22:A:ILE:N	1:22:A:ILE:CA	1:22:A:ILE:C	1:23:A:SER:N	4	3.42
(1,33)	1:21:A:GLU:C	1:22:A:ILE:N	1:22:A:ILE:CA	1:22:A:ILE:C	8	3.41
(1,207)	1:174:A:PRO:N	1:174:A:PRO:CA	1:174:A:PRO:C	1:175:A:GLY:N	5	3.4
(1,33)	1:21:A:GLU:C	1:22:A:ILE:N	1:22:A:ILE:CA	1:22:A:ILE:C	10	3.39
(1,271)	1:222:A:TYR:N	1:222:A:TYR:CA	1:222:A:TYR:C	1:223:A:VAL:N	3	3.37
(1,60)	1:67:A:ASP:N	1:67:A:ASP:CA	1:67:A:ASP:C	1:68:A:VAL:N	7	3.37
(1,50)	1:38:A:SER:N	1:38:A:SER:CA	1:38:A:SER:C	1:39:A:MET:N	7	3.37
(1,26)	1:18:A:ASP:N	1:18:A:ASP:CA	1:18:A:ASP:C	1:19:A:GLN:N	9	3.36
(1,76)	1:88:A:GLN:N	1:88:A:GLN:CA	1:88:A:GLN:C	1:89:A:LYS:N	10	3.35
(1,2)	1:6:A:LEU:N	1:6:A:LEU:CA	1:6:A:LEU:C	1:7:A:GLU:N	10	3.34
(1,267)	1:217:A:THR:N	1:217:A:THR:CA	1:217:A:THR:C	1:218:A:ARG:N	3	3.32
(1,158)	1:144:A:TRP:N	1:144:A:TRP:CA	1:144:A:TRP:C	1:145:A:LYS:N	3	3.3
(1,258)	1:211:A:TYR:C	1:212:A:GLY:N	1:212:A:GLY:CA	1:212:A:GLY:C	10	3.29
(1,209)	1:175:A:GLY:N	1:175:A:GLY:CA	1:175:A:GLY:C	1:176:A:LEU:N	6	3.29
(1,68)	1:84:A:TYR:N	1:84:A:TYR:CA	1:84:A:TYR:C	1:85:A:ARG:N	9	3.28
(1,99)	1:107:A:PHE:C	1:108:A:HIS:N	1:108:A:HIS:CA	1:108:A:HIS:C	3	3.27
(1,188)	1:163:A:PRO:N	1:163:A:PRO:CA	1:163:A:PRO:C	1:164:A:GLY:N	9	3.25
(1,66)	1:83:A:ALA:N	1:83:A:ALA:CA	1:83:A:ALA:C	1:84:A:TYR:N	7	3.25
(1,66)	1:83:A:ALA:N	1:83:A:ALA:CA	1:83:A:ALA:C	1:84:A:TYR:N	4	3.19
(1,85)	1:96:A:GLN:C	1:97:A:ILE:N	1:97:A:ILE:CA	1:97:A:ILE:C	2	3.17
(1,60)	1:67:A:ASP:N	1:67:A:ASP:CA	1:67:A:ASP:C	1:68:A:VAL:N	4	3.16
(1,86)	1:97:A:ILE:N	1:97:A:ILE:CA	1:97:A:ILE:C	1:98:A:GLY:N	8	3.15
(1,196)	1:168:A:ARG:N	1:168:A:ARG:CA	1:168:A:ARG:C	1:169:A:ALA:N	5	3.09
(1,265)	1:216:A:VAL:N	1:216:A:VAL:CA	1:216:A:VAL:C	1:217:A:THR:N	4	3.08
(1,239)	1:195:A:THR:N	1:195:A:THR:CA	1:195:A:THR:C	1:196:A:SER:N	6	3.08
(1,235)	1:191:A:PHE:N	1:191:A:PHE:CA	1:191:A:PHE:C	1:192:A:SER:N	9	3.06
(1,201)	1:170:A:VAL:C	1:171:A:GLN:N	1:171:A:GLN:CA	1:171:A:GLN:C	5	3.05
(1,45)	1:31:A:ILE:C	1:32:A:THR:N	1:32:A:THR:CA	1:32:A:THR:C	8	3.04
(1,190)	1:164:A:GLY:N	1:164:A:GLY:CA	1:164:A:GLY:C	1:165:A:LYS:N	6	3.02
(1,78)	1:89:A:LYS:N	1:89:A:LYS:CA	1:89:A:LYS:C	1:90:A:GLY:N	8	3.02
(1,245)	1:201:A:ILE:N	1:201:A:ILE:CA	1:201:A:ILE:C	1:202:A:ASP:N	9	3.0
(1,156)	1:143:A:GLY:N	1:143:A:GLY:CA	1:143:A:GLY:C	1:144:A:TRP:N	2	2.99
(1,132)	1:129:A:SER:N	1:129:A:SER:CA	1:129:A:SER:C	1:130:A:TRP:N	4	2.99
(1,28)	1:19:A:GLN:N	1:19:A:GLN:CA	1:19:A:GLN:C	1:20:A:ALA:N	4	2.98
(1,59)	1:66:A:TRP:C	1:67:A:ASP:N	1:67:A:ASP:CA	1:67:A:ASP:C	10	2.97
(1,58)	1:66:A:TRP:N	1:66:A:TRP:CA	1:66:A:TRP:C	1:67:A:ASP:N	7	2.97
(1,279)	1:228:A:GLN:N	1:228:A:GLN:CA	1:228:A:GLN:C	1:229:A:THR:N	9	2.96
(1,55)	1:40:A:SER:C	1:41:A:ILE:N	1:41:A:ILE:CA	1:41:A:ILE:C	5	2.95
(1,25)	1:17:A:GLU:C	1:18:A:ASP:N	1:18:A:ASP:CA	1:18:A:ASP:C	2	2.95
(1,139)	1:132:A:ASP:C	1:133:A:VAL:N	1:133:A:VAL:CA	1:133:A:VAL:C	5	2.94
(1,245)	1:201:A:ILE:N	1:201:A:ILE:CA	1:201:A:ILE:C	1:202:A:ASP:N	3	2.92
(1,35)	1:25:A:SER:C	1:26:A:SER:N	1:26:A:SER:CA	1:26:A:SER:C	4	2.92
(1,188)	1:163:A:PRO:N	1:163:A:PRO:CA	1:163:A:PRO:C	1:164:A:GLY:N	1	2.89
(1,159)	1:144:A:TRP:C	1:145:A:LYS:N	1:145:A:LYS:CA	1:145:A:LYS:C	3	2.88
(1,166)	1:150:A:TRP:N	1:150:A:TRP:CA	1:150:A:TRP:C	1:151:A:LYS:N	1	2.87
(1,283)	1:232:A:SER:N	1:232:A:SER:CA	1:232:A:SER:C	1:233:A:ILE:N	8	2.86

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,256)	1:210:A:LEU:C	1:211:A:TYR:N	1:211:A:TYR:CA	1:211:A:TYR:C	3	2.86
(1,209)	1:175:A:GLY:N	1:175:A:GLY:CA	1:175:A:GLY:C	1:176:A:LEU:N	4	2.86
(1,4)	1:7:A:GLU:N	1:7:A:GLU:CA	1:7:A:GLU:C	1:8:A:LEU:N	10	2.86
(1,275)	1:224:A:SER:N	1:224:A:SER:CA	1:224:A:SER:C	1:225:A:ALA:N	1	2.83
(1,175)	1:156:A:VAL:N	1:156:A:VAL:CA	1:156:A:VAL:C	1:157:A:GLN:N	1	2.83
(1,287)	1:236:A:ASN:N	1:236:A:ASN:CA	1:236:A:ASN:C	1:237:A:PRO:N	5	2.81
(1,188)	1:163:A:PRO:N	1:163:A:PRO:CA	1:163:A:PRO:C	1:164:A:GLY:N	5	2.79
(1,222)	1:184:A:ILE:C	1:185:A:GLY:N	1:185:A:GLY:CA	1:185:A:GLY:C	7	2.77
(1,175)	1:156:A:VAL:N	1:156:A:VAL:CA	1:156:A:VAL:C	1:157:A:GLN:N	4	2.77
(1,108)	1:113:A:VAL:N	1:113:A:VAL:CA	1:113:A:VAL:C	1:114:A:THR:N	6	2.77
(1,24)	1:17:A:GLU:N	1:17:A:GLU:CA	1:17:A:GLU:C	1:18:A:ASP:N	5	2.77
(1,281)	1:229:A:THR:N	1:229:A:THR:CA	1:229:A:THR:C	1:230:A:GLU:N	3	2.76
(1,203)	1:171:A:GLN:C	1:172:A:THR:N	1:172:A:THR:CA	1:172:A:THR:C	10	2.75
(1,264)	1:215:A:VAL:C	1:216:A:VAL:N	1:216:A:VAL:CA	1:216:A:VAL:C	4	2.71
(1,136)	1:131:A:ALA:N	1:131:A:ALA:CA	1:131:A:ALA:C	1:132:A:ASP:N	7	2.71
(1,158)	1:144:A:TRP:N	1:144:A:TRP:CA	1:144:A:TRP:C	1:145:A:LYS:N	4	2.69
(1,62)	1:68:A:VAL:N	1:68:A:VAL:CA	1:68:A:VAL:C	1:69:A:PRO:N	2	2.65
(1,66)	1:83:A:ALA:N	1:83:A:ALA:CA	1:83:A:ALA:C	1:84:A:TYR:N	5	2.63
(1,204)	1:172:A:THR:N	1:172:A:THR:CA	1:172:A:THR:C	1:173:A:LYS:N	4	2.61
(1,184)	1:160:A:ALA:C	1:161:A:LEU:N	1:161:A:LEU:CA	1:161:A:LEU:C	3	2.59
(1,88)	1:99:A:ALA:N	1:99:A:ALA:CA	1:99:A:ALA:C	1:100:A:GLY:N	4	2.59
(1,50)	1:38:A:SER:N	1:38:A:SER:CA	1:38:A:SER:C	1:39:A:MET:N	9	2.57
(1,2)	1:6:A:LEU:N	1:6:A:LEU:CA	1:6:A:LEU:C	1:7:A:GLU:N	3	2.57
(1,139)	1:132:A:ASP:C	1:133:A:VAL:N	1:133:A:VAL:CA	1:133:A:VAL:C	8	2.56
(1,196)	1:168:A:ARG:N	1:168:A:ARG:CA	1:168:A:ARG:C	1:169:A:ALA:N	1	2.55
(1,275)	1:224:A:SER:N	1:224:A:SER:CA	1:224:A:SER:C	1:225:A:ALA:N	5	2.53
(1,245)	1:201:A:ILE:N	1:201:A:ILE:CA	1:201:A:ILE:C	1:202:A:ASP:N	10	2.52
(1,76)	1:88:A:GLN:N	1:88:A:GLN:CA	1:88:A:GLN:C	1:89:A:LYS:N	6	2.51
(1,9)	1:9:A:GLU:C	1:10:A:ARG:N	1:10:A:ARG:CA	1:10:A:ARG:C	7	2.51
(1,24)	1:17:A:GLU:N	1:17:A:GLU:CA	1:17:A:GLU:C	1:18:A:ASP:N	2	2.49
(1,261)	1:213:A:ASN:N	1:213:A:ASN:CA	1:213:A:ASN:C	1:214:A:GLY:N	9	2.48
(1,233)	1:190:A:ASP:N	1:190:A:ASP:CA	1:190:A:ASP:C	1:191:A:PHE:N	1	2.48
(1,230)	1:188:A:SER:C	1:189:A:LEU:N	1:189:A:LEU:CA	1:189:A:LEU:C	6	2.48
(1,121)	1:122:A:LYS:C	1:123:A:GLY:N	1:123:A:GLY:CA	1:123:A:GLY:C	5	2.48
(1,46)	1:32:A:THR:N	1:32:A:THR:CA	1:32:A:THR:C	1:33:A:ILE:N	6	2.48
(1,172)	1:154:A:GLU:N	1:154:A:GLU:CA	1:154:A:GLU:C	1:155:A:GLU:N	10	2.45
(1,281)	1:229:A:THR:N	1:229:A:THR:CA	1:229:A:THR:C	1:230:A:GLU:N	4	2.42
(1,37)	1:27:A:PRO:C	1:28:A:ILE:N	1:28:A:ILE:CA	1:28:A:ILE:C	4	2.42
(1,55)	1:40:A:SER:C	1:41:A:ILE:N	1:41:A:ILE:CA	1:41:A:ILE:C	4	2.41
(1,46)	1:32:A:THR:N	1:32:A:THR:CA	1:32:A:THR:C	1:33:A:ILE:N	4	2.41
(1,68)	1:84:A:TYR:N	1:84:A:TYR:CA	1:84:A:TYR:C	1:85:A:ARG:N	10	2.38
(1,39)	1:28:A:ILE:C	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	9	2.38
(1,199)	1:169:A:ALA:C	1:170:A:VAL:N	1:170:A:VAL:CA	1:170:A:VAL:C	4	2.37
(1,164)	1:149:A:GLU:N	1:149:A:GLU:CA	1:149:A:GLU:C	1:150:A:TRP:N	5	2.37
(1,37)	1:27:A:PRO:C	1:28:A:ILE:N	1:28:A:ILE:CA	1:28:A:ILE:C	9	2.37
(1,63)	1:69:A:PRO:C	1:70:A:SER:N	1:70:A:SER:CA	1:70:A:SER:C	6	2.35
(1,283)	1:232:A:SER:N	1:232:A:SER:CA	1:232:A:SER:C	1:233:A:ILE:N	3	2.33
(1,198)	1:169:A:ALA:N	1:169:A:ALA:CA	1:169:A:ALA:C	1:170:A:VAL:N	8	2.33
(1,245)	1:201:A:ILE:N	1:201:A:ILE:CA	1:201:A:ILE:C	1:202:A:ASP:N	1	2.32
(1,110)	1:115:A:ARG:N	1:115:A:ARG:CA	1:115:A:ARG:C	1:116:A:GLY:N	10	2.31
(1,156)	1:143:A:GLY:N	1:143:A:GLY:CA	1:143:A:GLY:C	1:144:A:TRP:N	5	2.3

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,28)	1:19:A:GLN:N	1:19:A:GLN:CA	1:19:A:GLN:C	1:20:A:ALA:N	10	2.29
(1,259)	1:212:A:GLY:N	1:212:A:GLY:CA	1:212:A:GLY:C	1:213:A:ASN:N	5	2.28
(1,37)	1:27:A:PRO:C	1:28:A:ILE:N	1:28:A:ILE:CA	1:28:A:ILE:C	1	2.27
(1,45)	1:31:A:ILE:C	1:32:A:THR:N	1:32:A:THR:CA	1:32:A:THR:C	7	2.26
(1,265)	1:216:A:VAL:N	1:216:A:VAL:CA	1:216:A:VAL:C	1:217:A:THR:N	9	2.25
(1,98)	1:107:A:PHE:N	1:107:A:PHE:CA	1:107:A:PHE:C	1:108:A:HIS:N	10	2.25
(1,34)	1:22:A:ILE:N	1:22:A:ILE:CA	1:22:A:ILE:C	1:23:A:SER:N	5	2.25
(1,96)	1:106:A:THR:N	1:106:A:THR:CA	1:106:A:THR:C	1:107:A:PHE:N	8	2.21
(1,88)	1:99:A:ALA:N	1:99:A:ALA:CA	1:99:A:ALA:C	1:100:A:GLY:N	2	2.21
(1,233)	1:190:A:ASP:N	1:190:A:ASP:CA	1:190:A:ASP:C	1:191:A:PHE:N	9	2.2
(1,159)	1:144:A:TRP:C	1:145:A:LYS:N	1:145:A:LYS:CA	1:145:A:LYS:C	7	2.2
(1,43)	1:30:A:SER:C	1:31:A:ILE:N	1:31:A:ILE:CA	1:31:A:ILE:C	9	2.2
(1,68)	1:84:A:TYR:N	1:84:A:TYR:CA	1:84:A:TYR:C	1:85:A:ARG:N	4	2.19
(1,195)	1:167:A:PRO:C	1:168:A:ARG:N	1:168:A:ARG:CA	1:168:A:ARG:C	6	2.18
(1,101)	1:108:A:HIS:C	1:109:A:THR:N	1:109:A:THR:CA	1:109:A:THR:C	5	2.16
(1,265)	1:216:A:VAL:N	1:216:A:VAL:CA	1:216:A:VAL:C	1:217:A:THR:N	8	2.15
(1,200)	1:170:A:VAL:N	1:170:A:VAL:CA	1:170:A:VAL:C	1:171:A:GLN:N	7	2.15
(1,54)	1:40:A:SER:N	1:40:A:SER:CA	1:40:A:SER:C	1:41:A:ILE:N	5	2.15
(1,33)	1:21:A:GLU:C	1:22:A:ILE:N	1:22:A:ILE:CA	1:22:A:ILE:C	1	2.14
(1,190)	1:164:A:GLY:N	1:164:A:GLY:CA	1:164:A:GLY:C	1:165:A:LYS:N	9	2.13
(1,188)	1:163:A:PRO:N	1:163:A:PRO:CA	1:163:A:PRO:C	1:164:A:GLY:N	4	2.13
(1,101)	1:108:A:HIS:C	1:109:A:THR:N	1:109:A:THR:CA	1:109:A:THR:C	2	2.12
(1,260)	1:212:A:GLY:C	1:213:A:ASN:N	1:213:A:ASN:CA	1:213:A:ASN:C	7	2.11
(1,255)	1:210:A:LEU:N	1:210:A:LEU:CA	1:210:A:LEU:C	1:211:A:TYR:N	3	2.1
(1,85)	1:96:A:GLN:C	1:97:A:ILE:N	1:97:A:ILE:CA	1:97:A:ILE:C	4	2.1
(1,178)	1:157:A:GLN:C	1:158:A:VAL:N	1:158:A:VAL:CA	1:158:A:VAL:C	6	2.09
(1,67)	1:83:A:ALA:C	1:84:A:TYR:N	1:84:A:TYR:CA	1:84:A:TYR:C	3	2.08
(1,224)	1:185:A:GLY:C	1:186:A:ALA:N	1:186:A:ALA:CA	1:186:A:ALA:C	7	2.07
(1,38)	1:28:A:ILE:N	1:28:A:ILE:CA	1:28:A:ILE:C	1:29:A:LEU:N	6	2.07
(1,2)	1:6:A:LEU:N	1:6:A:LEU:CA	1:6:A:LEU:C	1:7:A:GLU:N	8	2.07
(1,88)	1:99:A:ALA:N	1:99:A:ALA:CA	1:99:A:ALA:C	1:100:A:GLY:N	7	2.06
(1,275)	1:224:A:SER:N	1:224:A:SER:CA	1:224:A:SER:C	1:225:A:ALA:N	2	2.05
(1,264)	1:215:A:VAL:C	1:216:A:VAL:N	1:216:A:VAL:CA	1:216:A:VAL:C	8	2.04
(1,131)	1:128:A:PRO:C	1:129:A:SER:N	1:129:A:SER:CA	1:129:A:SER:C	2	2.04
(1,153)	1:141:A:GLY:C	1:142:A:GLY:N	1:142:A:GLY:CA	1:142:A:GLY:C	8	2.03
(1,45)	1:31:A:ILE:C	1:32:A:THR:N	1:32:A:THR:CA	1:32:A:THR:C	6	2.03
(1,112)	1:116:A:GLY:N	1:116:A:GLY:CA	1:116:A:GLY:C	1:117:A:ALA:N	3	2.02
(1,213)	1:177:A:PHE:N	1:177:A:PHE:CA	1:177:A:PHE:C	1:178:A:LYS:N	8	2.01
(1,207)	1:174:A:PRO:N	1:174:A:PRO:CA	1:174:A:PRO:C	1:175:A:GLY:N	7	2.0
(1,2)	1:6:A:LEU:N	1:6:A:LEU:CA	1:6:A:LEU:C	1:7:A:GLU:N	2	1.99
(1,225)	1:186:A:ALA:N	1:186:A:ALA:CA	1:186:A:ALA:C	1:187:A:VAL:N	4	1.98
(1,112)	1:116:A:GLY:N	1:116:A:GLY:CA	1:116:A:GLY:C	1:117:A:ALA:N	4	1.97
(1,142)	1:134:A:LYS:N	1:134:A:LYS:CA	1:134:A:LYS:C	1:135:A:LYS:N	2	1.96
(1,108)	1:113:A:VAL:N	1:113:A:VAL:CA	1:113:A:VAL:C	1:114:A:THR:N	4	1.96
(1,270)	1:221:A:ALA:C	1:222:A:TYR:N	1:222:A:TYR:CA	1:222:A:TYR:C	1	1.95
(1,59)	1:66:A:TRP:C	1:67:A:ASP:N	1:67:A:ASP:CA	1:67:A:ASP:C	8	1.94
(1,103)	1:110:A:MET:C	1:111:A:TRP:N	1:111:A:TRP:CA	1:111:A:TRP:C	8	1.93
(1,66)	1:83:A:ALA:N	1:83:A:ALA:CA	1:83:A:ALA:C	1:84:A:TYR:N	3	1.93
(1,184)	1:160:A:ALA:C	1:161:A:LEU:N	1:161:A:LEU:CA	1:161:A:LEU:C	4	1.92
(1,121)	1:122:A:LYS:C	1:123:A:GLY:N	1:123:A:GLY:CA	1:123:A:GLY:C	8	1.92
(1,167)	1:150:A:TRP:C	1:151:A:LYS:N	1:151:A:LYS:CA	1:151:A:LYS:C	9	1.91

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,212)	1:176:A:LEU:C	1:177:A:PHE:N	1:177:A:PHE:CA	1:177:A:PHE:C	9	1.89
(1,49)	1:37:A:GLY:C	1:38:A:SER:N	1:38:A:SER:CA	1:38:A:SER:C	9	1.89
(1,199)	1:169:A:ALA:C	1:170:A:VAL:N	1:170:A:VAL:CA	1:170:A:VAL:C	7	1.88
(1,116)	1:119:A:LEU:N	1:119:A:LEU:CA	1:119:A:LEU:C	1:120:A:MET:N	8	1.88
(1,136)	1:131:A:ALA:N	1:131:A:ALA:CA	1:131:A:ALA:C	1:132:A:ASP:N	8	1.87
(1,46)	1:32:A:THR:N	1:32:A:THR:CA	1:32:A:THR:C	1:33:A:ILE:N	7	1.87
(1,101)	1:108:A:HIS:C	1:109:A:THR:N	1:109:A:THR:CA	1:109:A:THR:C	4	1.85
(1,121)	1:122:A:LYS:C	1:123:A:GLY:N	1:123:A:GLY:CA	1:123:A:GLY:C	10	1.84
(1,243)	1:200:A:ILE:N	1:200:A:ILE:CA	1:200:A:ILE:C	1:201:A:ILE:N	2	1.83
(1,4)	1:7:A:GLU:N	1:7:A:GLU:CA	1:7:A:GLU:C	1:8:A:LEU:N	4	1.83
(1,270)	1:221:A:ALA:C	1:222:A:TYR:N	1:222:A:TYR:CA	1:222:A:TYR:C	6	1.82
(1,116)	1:119:A:LEU:N	1:119:A:LEU:CA	1:119:A:LEU:C	1:120:A:MET:N	6	1.82
(1,46)	1:32:A:THR:N	1:32:A:THR:CA	1:32:A:THR:C	1:33:A:ILE:N	1	1.82
(1,202)	1:171:A:GLN:N	1:171:A:GLN:CA	1:171:A:GLN:C	1:172:A:THR:N	7	1.81
(1,102)	1:109:A:THR:N	1:109:A:THR:CA	1:109:A:THR:C	1:110:A:MET:N	2	1.81
(1,85)	1:96:A:GLN:C	1:97:A:ILE:N	1:97:A:ILE:CA	1:97:A:ILE:C	6	1.77
(1,184)	1:160:A:ALA:C	1:161:A:LEU:N	1:161:A:LEU:CA	1:161:A:LEU:C	10	1.76
(1,80)	1:90:A:GLY:N	1:90:A:GLY:CA	1:90:A:GLY:C	1:91:A:ILE:N	4	1.75
(1,147)	1:137:A:LEU:C	1:138:A:ILE:N	1:138:A:ILE:CA	1:138:A:ILE:C	6	1.74
(1,230)	1:188:A:SER:C	1:189:A:LEU:N	1:189:A:LEU:CA	1:189:A:LEU:C	2	1.71
(1,184)	1:160:A:ALA:C	1:161:A:LEU:N	1:161:A:LEU:CA	1:161:A:LEU:C	8	1.68
(1,121)	1:122:A:LYS:C	1:123:A:GLY:N	1:123:A:GLY:CA	1:123:A:GLY:C	4	1.67
(1,88)	1:99:A:ALA:N	1:99:A:ALA:CA	1:99:A:ALA:C	1:100:A:GLY:N	3	1.66
(1,86)	1:97:A:ILE:N	1:97:A:ILE:CA	1:97:A:ILE:C	1:98:A:GLY:N	6	1.66
(1,218)	1:182:A:GLY:C	1:183:A:THR:N	1:183:A:THR:CA	1:183:A:THR:C	10	1.65
(1,49)	1:37:A:GLY:C	1:38:A:SER:N	1:38:A:SER:CA	1:38:A:SER:C	8	1.65
(1,24)	1:17:A:GLU:N	1:17:A:GLU:CA	1:17:A:GLU:C	1:18:A:ASP:N	3	1.65
(1,199)	1:169:A:ALA:C	1:170:A:VAL:N	1:170:A:VAL:CA	1:170:A:VAL:C	6	1.63
(1,83)	1:95:A:SER:C	1:96:A:GLN:N	1:96:A:GLN:CA	1:96:A:GLN:C	10	1.62
(1,5)	1:7:A:GLU:C	1:8:A:LEU:N	1:8:A:LEU:CA	1:8:A:LEU:C	1	1.62
(1,220)	1:183:A:THR:C	1:184:A:ILE:N	1:184:A:ILE:CA	1:184:A:ILE:C	5	1.6
(1,76)	1:88:A:GLN:N	1:88:A:GLN:CA	1:88:A:GLN:C	1:89:A:LYS:N	4	1.6
(1,122)	1:123:A:GLY:N	1:123:A:GLY:CA	1:123:A:GLY:C	1:124:A:LYS:N	9	1.59
(1,78)	1:89:A:LYS:N	1:89:A:LYS:CA	1:89:A:LYS:C	1:90:A:GLY:N	7	1.59
(1,165)	1:149:A:GLU:C	1:150:A:TRP:N	1:150:A:TRP:CA	1:150:A:TRP:C	2	1.57
(1,34)	1:22:A:ILE:N	1:22:A:ILE:CA	1:22:A:ILE:C	1:23:A:SER:N	7	1.56
(1,195)	1:167:A:PRO:C	1:168:A:ARG:N	1:168:A:ARG:CA	1:168:A:ARG:C	7	1.54
(1,85)	1:96:A:GLN:C	1:97:A:ILE:N	1:97:A:ILE:CA	1:97:A:ILE:C	1	1.54
(1,68)	1:84:A:TYR:N	1:84:A:TYR:CA	1:84:A:TYR:C	1:85:A:ARG:N	8	1.54
(1,209)	1:175:A:GLY:N	1:175:A:GLY:CA	1:175:A:GLY:C	1:176:A:LEU:N	9	1.53
(1,110)	1:115:A:ARG:N	1:115:A:ARG:CA	1:115:A:ARG:C	1:116:A:GLY:N	5	1.53
(1,35)	1:25:A:SER:C	1:26:A:SER:N	1:26:A:SER:CA	1:26:A:SER:C	2	1.53
(1,33)	1:21:A:GLU:C	1:22:A:ILE:N	1:22:A:ILE:CA	1:22:A:ILE:C	6	1.53
(1,63)	1:69:A:PRO:C	1:70:A:SER:N	1:70:A:SER:CA	1:70:A:SER:C	3	1.52
(1,43)	1:30:A:SER:C	1:31:A:ILE:N	1:31:A:ILE:CA	1:31:A:ILE:C	5	1.52
(1,27)	1:18:A:ASP:C	1:19:A:GLN:N	1:19:A:GLN:CA	1:19:A:GLN:C	9	1.52
(1,274)	1:223:A:VAL:C	1:224:A:SER:N	1:224:A:SER:CA	1:224:A:SER:C	5	1.51
(1,188)	1:163:A:PRO:N	1:163:A:PRO:CA	1:163:A:PRO:C	1:164:A:GLY:N	3	1.51
(1,120)	1:121:A:HIS:N	1:121:A:HIS:CA	1:121:A:HIS:C	1:122:A:LYS:N	1	1.51
(1,50)	1:38:A:SER:N	1:38:A:SER:CA	1:38:A:SER:C	1:39:A:MET:N	3	1.51
(1,269)	1:221:A:ALA:N	1:221:A:ALA:CA	1:221:A:ALA:C	1:222:A:TYR:N	2	1.5

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,38)	1:28:A:ILE:N	1:28:A:ILE:CA	1:28:A:ILE:C	1:29:A:LEU:N	5	1.5
(1,198)	1:169:A:ALA:N	1:169:A:ALA:CA	1:169:A:ALA:C	1:170:A:VAL:N	1	1.49
(1,50)	1:38:A:SER:N	1:38:A:SER:CA	1:38:A:SER:C	1:39:A:MET:N	4	1.49
(1,270)	1:221:A:ALA:C	1:222:A:TYR:N	1:222:A:TYR:CA	1:222:A:TYR:C	3	1.47
(1,19)	1:14:A:VAL:C	1:15:A:LYS:N	1:15:A:LYS:CA	1:15:A:LYS:C	5	1.44
(1,121)	1:122:A:LYS:C	1:123:A:GLY:N	1:123:A:GLY:CA	1:123:A:GLY:C	6	1.43
(1,49)	1:37:A:GLY:C	1:38:A:SER:N	1:38:A:SER:CA	1:38:A:SER:C	1	1.43
(1,153)	1:141:A:GLY:C	1:142:A:GLY:N	1:142:A:GLY:CA	1:142:A:GLY:C	3	1.42
(1,33)	1:21:A:GLU:C	1:22:A:ILE:N	1:22:A:ILE:CA	1:22:A:ILE:C	2	1.42
(1,174)	1:155:A:GLU:C	1:156:A:VAL:N	1:156:A:VAL:CA	1:156:A:VAL:C	3	1.41
(1,123)	1:123:A:GLY:C	1:124:A:LYS:N	1:124:A:LYS:CA	1:124:A:LYS:C	1	1.41
(1,88)	1:99:A:ALA:N	1:99:A:ALA:CA	1:99:A:ALA:C	1:100:A:GLY:N	8	1.41
(1,12)	1:11:A:ALA:N	1:11:A:ALA:CA	1:11:A:ALA:C	1:12:A:ALA:N	3	1.41
(1,242)	1:199:A:PRO:C	1:200:A:ILE:N	1:200:A:ILE:CA	1:200:A:ILE:C	8	1.4
(1,24)	1:17:A:GLU:N	1:17:A:GLU:CA	1:17:A:GLU:C	1:18:A:ASP:N	10	1.4
(1,163)	1:148:A:GLY:C	1:149:A:GLU:N	1:149:A:GLU:CA	1:149:A:GLU:C	7	1.38
(1,139)	1:132:A:ASP:C	1:133:A:VAL:N	1:133:A:VAL:CA	1:133:A:VAL:C	7	1.38
(1,222)	1:184:A:ILE:C	1:185:A:GLY:N	1:185:A:GLY:CA	1:185:A:GLY:C	3	1.36
(1,131)	1:128:A:PRO:C	1:129:A:SER:N	1:129:A:SER:CA	1:129:A:SER:C	8	1.36
(1,271)	1:222:A:TYR:N	1:222:A:TYR:CA	1:222:A:TYR:C	1:223:A:VAL:N	8	1.32
(1,158)	1:144:A:TRP:N	1:144:A:TRP:CA	1:144:A:TRP:C	1:145:A:LYS:N	5	1.32
(1,58)	1:66:A:TRP:N	1:66:A:TRP:CA	1:66:A:TRP:C	1:67:A:ASP:N	5	1.32
(1,124)	1:124:A:LYS:N	1:124:A:LYS:CA	1:124:A:LYS:C	1:125:A:ARG:N	3	1.3
(1,83)	1:95:A:SER:C	1:96:A:GLN:N	1:96:A:GLN:CA	1:96:A:GLN:C	4	1.3
(1,238)	1:194:A:GLY:C	1:195:A:THR:N	1:195:A:THR:CA	1:195:A:THR:C	8	1.29
(1,35)	1:25:A:SER:C	1:26:A:SER:N	1:26:A:SER:CA	1:26:A:SER:C	7	1.29
(1,166)	1:150:A:TRP:N	1:150:A:TRP:CA	1:150:A:TRP:C	1:151:A:LYS:N	4	1.28
(1,125)	1:124:A:LYS:C	1:125:A:ARG:N	1:125:A:ARG:CA	1:125:A:ARG:C	5	1.28
(1,82)	1:95:A:SER:N	1:95:A:SER:CA	1:95:A:SER:C	1:96:A:GLN:N	3	1.27
(1,96)	1:106:A:THR:N	1:106:A:THR:CA	1:106:A:THR:C	1:107:A:PHE:N	10	1.26
(1,90)	1:101:A:VAL:N	1:101:A:VAL:CA	1:101:A:VAL:C	1:102:A:TYR:N	1	1.25
(1,35)	1:25:A:SER:C	1:26:A:SER:N	1:26:A:SER:CA	1:26:A:SER:C	10	1.25
(1,159)	1:144:A:TRP:C	1:145:A:LYS:N	1:145:A:LYS:CA	1:145:A:LYS:C	8	1.24
(1,220)	1:183:A:THR:C	1:184:A:ILE:N	1:184:A:ILE:CA	1:184:A:ILE:C	8	1.23
(1,183)	1:160:A:ALA:N	1:160:A:ALA:CA	1:160:A:ALA:C	1:161:A:LEU:N	5	1.23
(1,156)	1:143:A:GLY:N	1:143:A:GLY:CA	1:143:A:GLY:C	1:144:A:TRP:N	3	1.23
(1,209)	1:175:A:GLY:N	1:175:A:GLY:CA	1:175:A:GLY:C	1:176:A:LEU:N	5	1.21
(1,60)	1:67:A:ASP:N	1:67:A:ASP:CA	1:67:A:ASP:C	1:68:A:VAL:N	8	1.21
(1,218)	1:182:A:GLY:C	1:183:A:THR:N	1:183:A:THR:CA	1:183:A:THR:C	6	1.2
(1,198)	1:169:A:ALA:N	1:169:A:ALA:CA	1:169:A:ALA:C	1:170:A:VAL:N	10	1.2
(1,121)	1:122:A:LYS:C	1:123:A:GLY:N	1:123:A:GLY:CA	1:123:A:GLY:C	1	1.2
(1,224)	1:185:A:GLY:C	1:186:A:ALA:N	1:186:A:ALA:CA	1:186:A:ALA:C	3	1.19
(1,261)	1:213:A:ASN:N	1:213:A:ASN:CA	1:213:A:ASN:C	1:214:A:GLY:N	6	1.17
(1,101)	1:108:A:HIS:C	1:109:A:THR:N	1:109:A:THR:CA	1:109:A:THR:C	9	1.17
(1,24)	1:17:A:GLU:N	1:17:A:GLU:CA	1:17:A:GLU:C	1:18:A:ASP:N	4	1.17
(1,2)	1:6:A:LEU:N	1:6:A:LEU:CA	1:6:A:LEU:C	1:7:A:GLU:N	7	1.17
(1,24)	1:17:A:GLU:N	1:17:A:GLU:CA	1:17:A:GLU:C	1:18:A:ASP:N	1	1.16
(1,278)	1:227:A:ALA:C	1:228:A:GLN:N	1:228:A:GLN:CA	1:228:A:GLN:C	8	1.15
(1,193)	1:165:A:LYS:C	1:166:A:ASN:N	1:166:A:ASN:CA	1:166:A:ASN:C	6	1.15
(1,108)	1:113:A:VAL:N	1:113:A:VAL:CA	1:113:A:VAL:C	1:114:A:THR:N	9	1.15
(1,29)	1:19:A:GLN:C	1:20:A:ALA:N	1:20:A:ALA:CA	1:20:A:ALA:C	7	1.15

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,2)	1:6:A:LEU:N	1:6:A:LEU:CA	1:6:A:LEU:C	1:7:A:GLU:N	1	1.15
(1,153)	1:141:A:GLY:C	1:142:A:GLY:N	1:142:A:GLY:CA	1:142:A:GLY:C	9	1.14
(1,264)	1:215:A:VAL:C	1:216:A:VAL:N	1:216:A:VAL:CA	1:216:A:VAL:C	6	1.12
(1,212)	1:176:A:LEU:C	1:177:A:PHE:N	1:177:A:PHE:CA	1:177:A:PHE:C	10	1.12
(1,24)	1:17:A:GLU:N	1:17:A:GLU:CA	1:17:A:GLU:C	1:18:A:ASP:N	8	1.11
(1,163)	1:148:A:GLY:C	1:149:A:GLU:N	1:149:A:GLU:CA	1:149:A:GLU:C	6	1.1
(1,49)	1:37:A:GLY:C	1:38:A:SER:N	1:38:A:SER:CA	1:38:A:SER:C	4	1.1
(1,271)	1:222:A:TYR:N	1:222:A:TYR:CA	1:222:A:TYR:C	1:223:A:VAL:N	2	1.08
(1,19)	1:14:A:VAL:C	1:15:A:LYS:N	1:15:A:LYS:CA	1:15:A:LYS:C	3	1.08
(1,228)	1:187:A:VAL:C	1:188:A:SER:N	1:188:A:SER:CA	1:188:A:SER:C	9	1.06
(1,8)	1:9:A:GLU:N	1:9:A:GLU:CA	1:9:A:GLU:C	1:10:A:ARG:N	7	1.06
(1,184)	1:160:A:ALA:C	1:161:A:LEU:N	1:161:A:LEU:CA	1:161:A:LEU:C	7	1.05
(1,107)	1:112:A:HIS:C	1:113:A:VAL:N	1:113:A:VAL:CA	1:113:A:VAL:C	7	1.05
(1,251)	1:204:A:LYS:N	1:204:A:LYS:CA	1:204:A:LYS:C	1:205:A:GLY:N	6	1.04
(1,102)	1:109:A:THR:N	1:109:A:THR:CA	1:109:A:THR:C	1:110:A:MET:N	5	1.03
(1,249)	1:203:A:LYS:N	1:203:A:LYS:CA	1:203:A:LYS:C	1:204:A:LYS:N	3	1.02
(1,12)	1:11:A:ALA:N	1:11:A:ALA:CA	1:11:A:ALA:C	1:12:A:ALA:N	9	1.02
(1,76)	1:88:A:GLN:N	1:88:A:GLN:CA	1:88:A:GLN:C	1:89:A:LYS:N	5	1.0