



Full wwPDB NMR Structure Validation Report ⓘ

Mar 5, 2026 – 06:26 PM UTC

PDB ID : 7AEP / pdb_00007aep
BMRB ID : 34560
Title : Solution structure of U1-A RRM2 (190-282)
Authors : Campagne, S.; Allain, F.H.
Deposited on : 2020-09-18

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:

MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
wwPDB-RCI : v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV : Wang et al. (2010)
wwPDB-ShiftChecker : v1.2
BMRB Restraints Analysis : v1.2
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

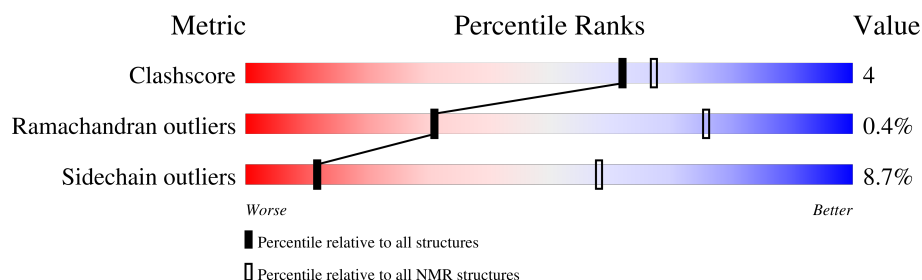
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 91%.

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



Metric	Whole archive (#Entries)	NMR archive (#Entries)
Clashscore	229148	14424
Ramachandran outliers	224038	12848
Sidechain outliers	223484	12823

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

Mol	Chain	Length	Quality of chain
1	A	126	

2 Ensemble composition and analysis

This entry contains 20 models. Model 5 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *lowest energy*.

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

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:208-A:240, A:244-A:280 (70)	0.14	5

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

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

The models can be grouped into 1 clusters and 3 single-model clusters were found.

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

3 Entry composition [i](#)

There is only 1 type of molecule in this entry. The entry contains 1463 atoms, of which 729 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called U1 small nuclear ribonucleoprotein A.

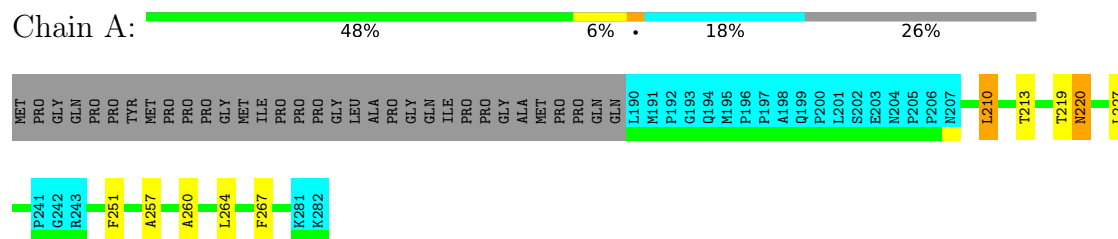
Mol	Chain	Residues	Atoms						Trace
1	A	93	Total	C	H	N	O	S	0
			1463	470	729	125	134	5	

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: U1 small nuclear ribonucleoprotein A

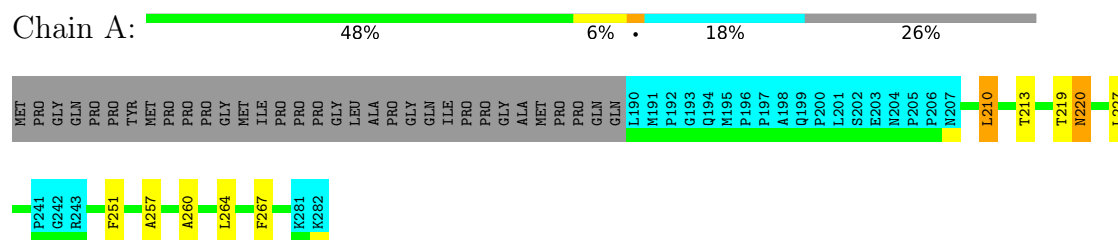


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

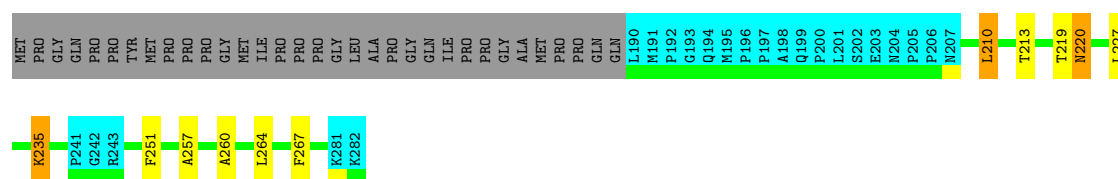
- Molecule 1: U1 small nuclear ribonucleoprotein A



4.2.2 Score per residue for model 2

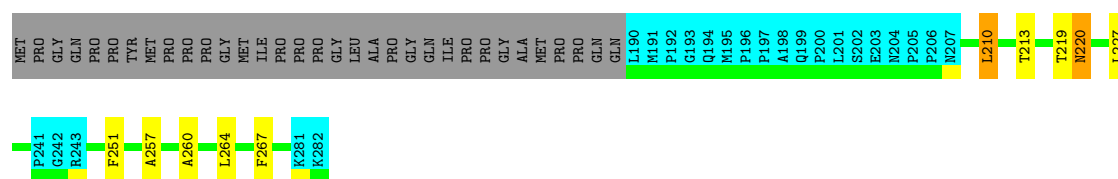
- Molecule 1: U1 small nuclear ribonucleoprotein A





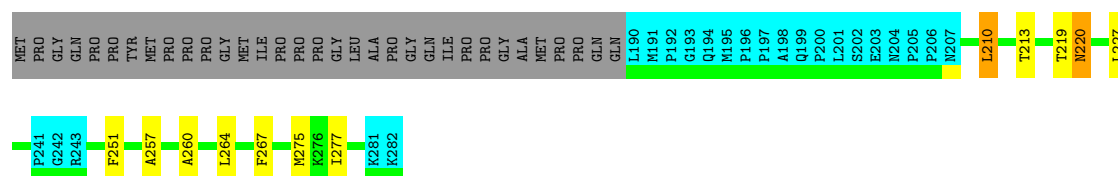
4.2.3 Score per residue for model 3

- Molecule 1: U1 small nuclear ribonucleoprotein A



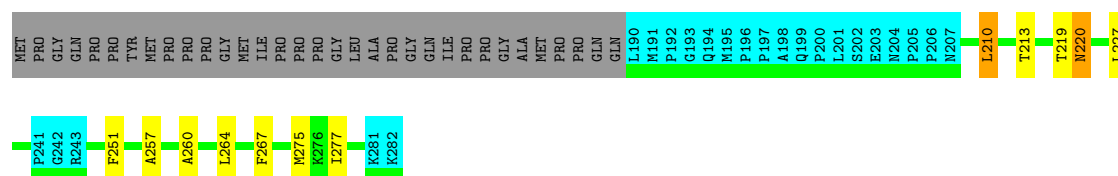
4.2.4 Score per residue for model 4

- Molecule 1: U1 small nuclear ribonucleoprotein A



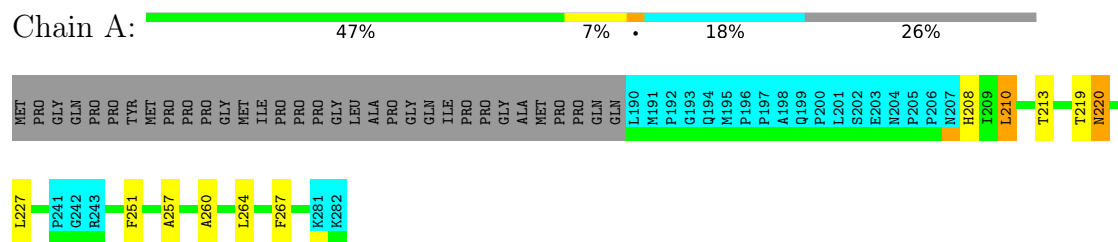
4.2.5 Score per residue for model 5 (medoid)

- Molecule 1: U1 small nuclear ribonucleoprotein A



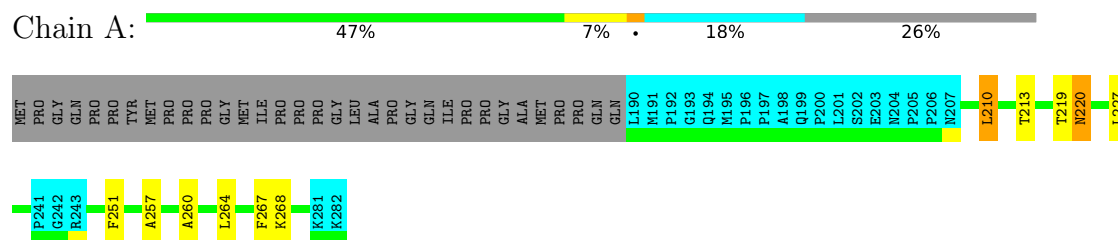
4.2.6 Score per residue for model 6

- Molecule 1: U1 small nuclear ribonucleoprotein A



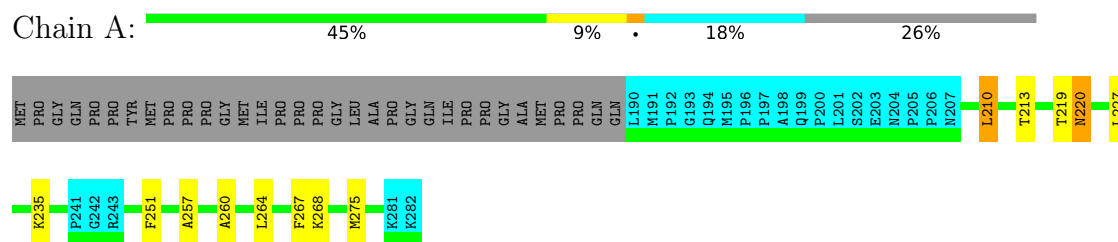
4.2.7 Score per residue for model 7

- Molecule 1: U1 small nuclear ribonucleoprotein A



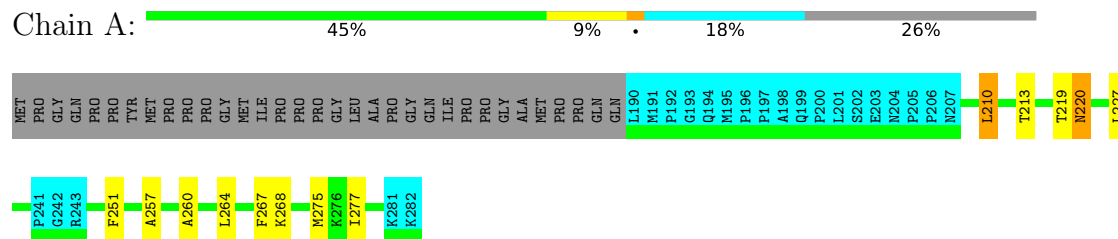
4.2.8 Score per residue for model 8

- Molecule 1: U1 small nuclear ribonucleoprotein A



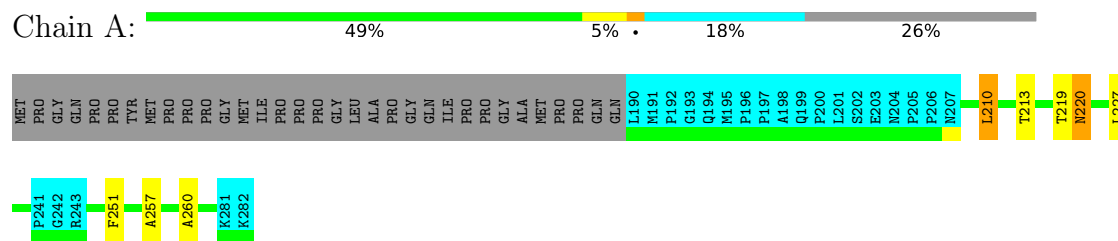
4.2.9 Score per residue for model 9

- Molecule 1: U1 small nuclear ribonucleoprotein A



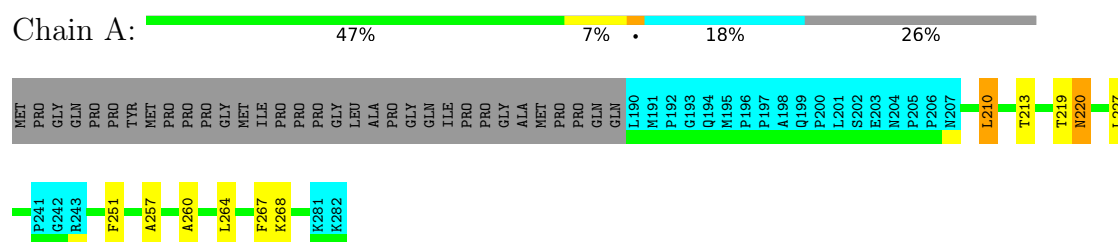
4.2.10 Score per residue for model 10

- Molecule 1: U1 small nuclear ribonucleoprotein A



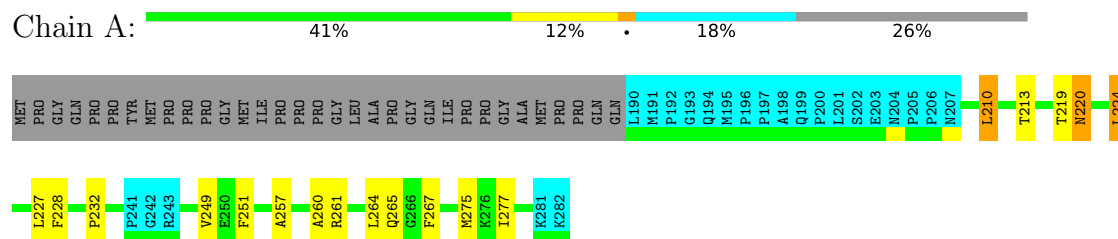
4.2.11 Score per residue for model 11

- Molecule 1: U1 small nuclear ribonucleoprotein A



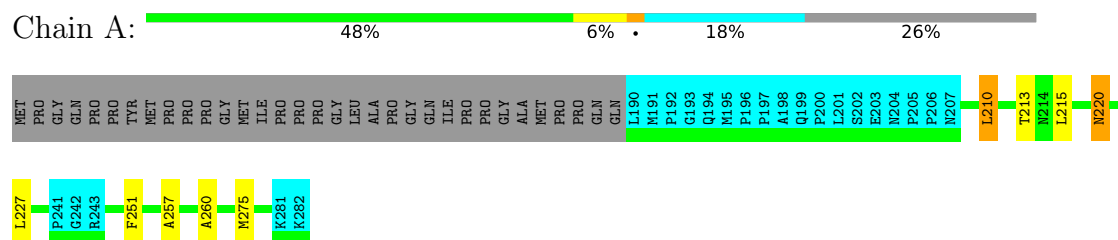
4.2.12 Score per residue for model 12

- Molecule 1: U1 small nuclear ribonucleoprotein A



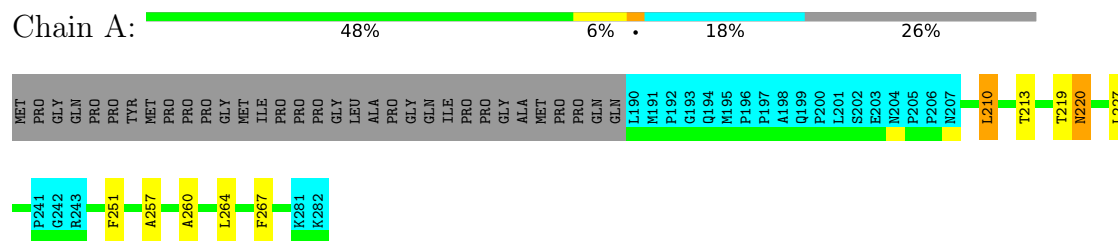
4.2.13 Score per residue for model 13

- Molecule 1: U1 small nuclear ribonucleoprotein A



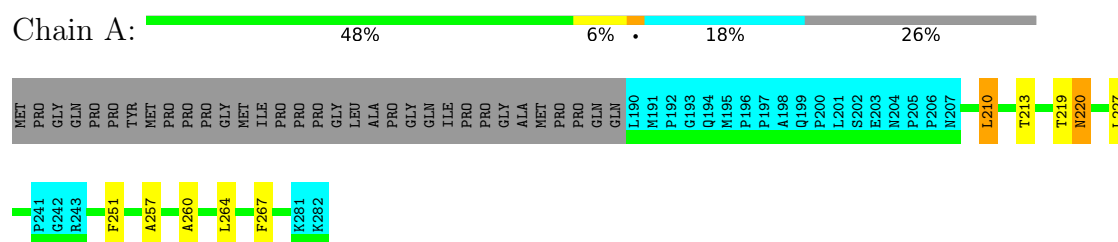
4.2.14 Score per residue for model 14

- Molecule 1: U1 small nuclear ribonucleoprotein A



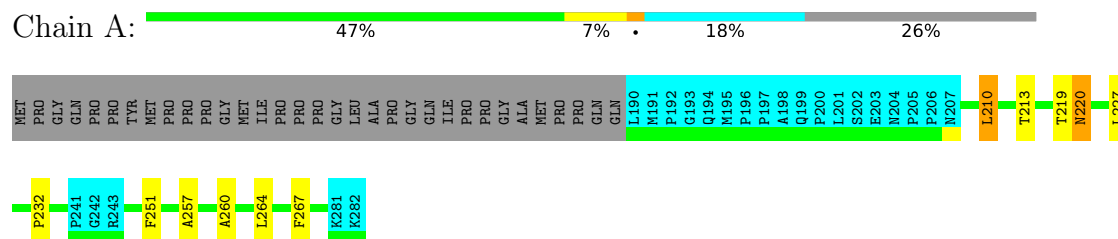
4.2.15 Score per residue for model 15

- Molecule 1: U1 small nuclear ribonucleoprotein A



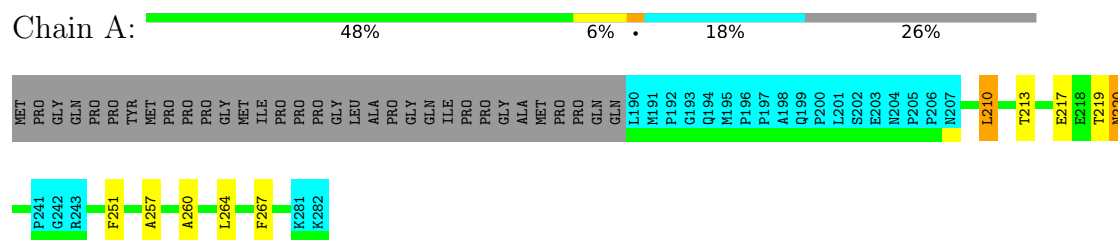
4.2.16 Score per residue for model 16

- Molecule 1: U1 small nuclear ribonucleoprotein A



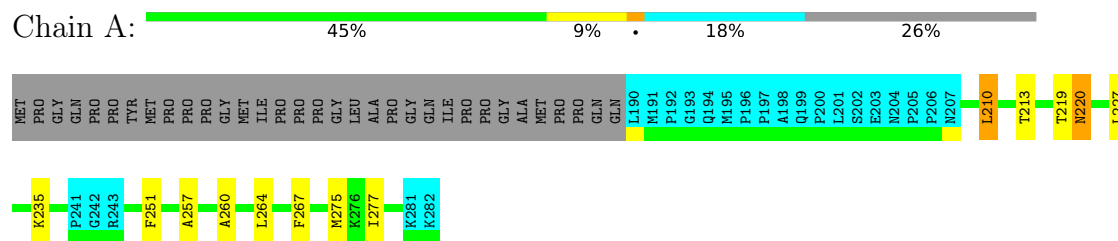
4.2.17 Score per residue for model 17

- Molecule 1: U1 small nuclear ribonucleoprotein A



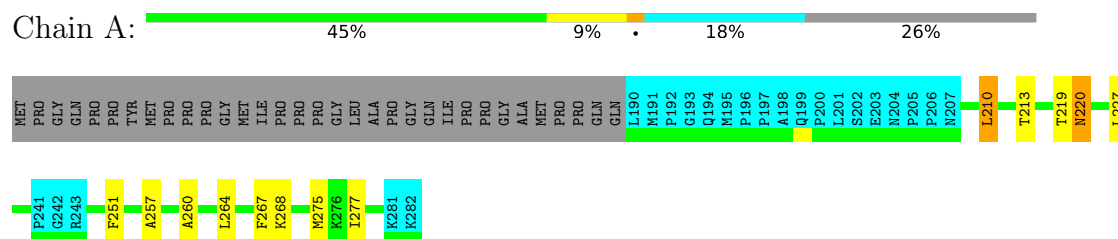
4.2.18 Score per residue for model 18

- Molecule 1: U1 small nuclear ribonucleoprotein A



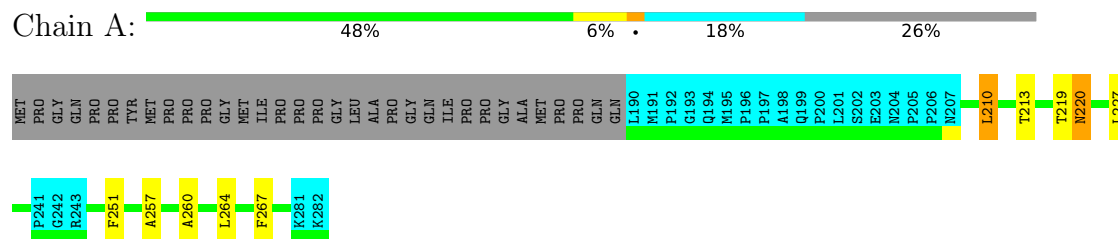
4.2.19 Score per residue for model 19

- Molecule 1: U1 small nuclear ribonucleoprotein A



4.2.20 Score per residue for model 20

- Molecule 1: U1 small nuclear ribonucleoprotein A



5 Refinement protocol and experimental data overview

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

Of the 50 calculated structures, 20 were deposited, based on the following criterion: *structures with the lowest energy*.

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

Software name	Classification	Version
Amber	refinement	20
CYANA	structure calculation	3.94

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	1322
Number of shifts mapped to atoms	1090
Number of unparsed shifts	0
Number of shifts with mapping errors	232
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	91%

6 Model quality

6.1 Standard geometry

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

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	561	551	551	5±1
All	All	11220	11020	11020	95

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 4.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:228:PHE:CE1	1:A:264:LEU:HD12	0.56	2.35	12	1
1:A:251:PHE:CZ	1:A:260:ALA:HB2	0.55	2.36	12	1
1:A:251:PHE:CE1	1:A:260:ALA:HB2	0.55	2.37	11	6
1:A:251:PHE:CE2	1:A:260:ALA:HB2	0.54	2.38	13	13
1:A:215:LEU:HD21	1:A:275:MET:SD	0.53	2.43	13	1
1:A:264:LEU:HD22	1:A:267:PHE:CD2	0.51	2.40	3	9
1:A:264:LEU:HD22	1:A:267:PHE:CD1	0.50	2.41	12	9
1:A:215:LEU:CD2	1:A:275:MET:SD	0.49	3.01	13	1
1:A:210:LEU:HD21	1:A:257:ALA:O	0.47	2.09	18	20
1:A:220:ASN:C	1:A:220:ASN:HD22	0.47	2.18	10	20
1:A:235:LYS:HE2	1:A:235:LYS:O	0.45	2.12	2	1
1:A:268:LYS:H	1:A:268:LYS:HD3	0.45	1.71	11	3
1:A:275:MET:SD	1:A:277:ILE:CD1	0.43	3.06	9	5
1:A:224:LEU:CD2	1:A:249:VAL:CG2	0.43	2.97	12	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:217:GLU:CD	1:A:217:GLU:H	0.42	2.22	17	1
1:A:251:PHE:CD2	1:A:260:ALA:HB2	0.41	2.51	10	2
1:A:261:ARG:HA	1:A:277:ILE:HG21	0.40	1.92	12	1

6.3 Torsion angles [i](#)

6.3.1 Protein backbone [i](#)

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	70/126 (56%)	62±1 (88±1%)	8±1 (11±1%)	0±1 (0±1%)	31	76
All	All	1400/2520 (56%)	1237 (88%)	157 (11%)	6 (0%)	31	76

All 4 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	275	MET	2
1	A	232	PRO	2
1	A	208	HIS	1
1	A	265	GLN	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	60/106 (57%)	55±1 (91±1%)	5±1 (9±1%)	12	58
All	All	1200/2120 (57%)	1096 (91%)	104 (9%)	12	58

All 8 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	210	LEU	20
1	A	213	THR	20
1	A	220	ASN	20
1	A	219	THR	19
1	A	227	LEU	19
1	A	235	LYS	3
1	A	268	LYS	2
1	A	224	LEU	1

6.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

6.6 Ligand geometry ⓘ

There are no ligands in this entry.

6.7 Other polymers ⓘ

There are no such molecules in this entry.

6.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

7 Chemical shift validation

The completeness of assignment taking into account all chemical shift lists is 91% for the well-defined parts and 85% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *U1A_RRM2_link.str*

7.1.1 Bookkeeping

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

Total number of shifts	1322
Number of shifts mapped to atoms	1090
Number of unparsed shifts	0
Number of shifts with mapping errors	232
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	2

The following assigned chemical shifts were not mapped to the molecules present in the coordinate file.

- No matching atom found in the structure. All 232 occurrences are reported below.

List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	A	158	PRO	HA	4.335	0.020	1
1	A	158	PRO	C	176.906	0.3	1
1	A	158	PRO	CA	56.564	0.3	1
1	A	158	PRO	CB	30.865	0.3	1
1	A	158	PRO	CD	49.922	0.3	1
1	A	158	PRO	CG	27.161	0.3	1
1	A	159	GLY	H	8.453	0.020	1
1	A	159	GLY	HA2	3.99	0.020	1
1	A	159	GLY	HA3	3.99	0.020	1
1	A	159	GLY	C	173.397	0.3	1
1	A	159	GLY	CA	45.361	0.3	1
1	A	159	GLY	N	109.963	0.3	1
1	A	160	GLN	H	8.344	0.020	1
1	A	160	GLN	HA	4.363	0.020	1

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List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	A	160	GLN	HB2	2.028	0.020	1
1	A	160	GLN	HB3	2.028	0.020	1
1	A	160	GLN	HG2	2.389	0.020	1
1	A	160	GLN	HG3	2.389	0.020	1
1	A	160	GLN	CA	53.732	0.3	1
1	A	160	GLN	CB	29.648	0.3	1
1	A	160	GLN	CG	34.014	0.3	1
1	A	160	GLN	N	121.113	0.3	1
1	A	162	PRO	HA	4.47	0.020	1
1	A	162	PRO	C	176.239	0.3	1
1	A	162	PRO	CA	63.039	0.3	1
1	A	162	PRO	CB	31.675	0.3	1
1	A	162	PRO	CD	50.17	0.3	1
1	A	162	PRO	CG	27.014	0.3	1
1	A	163	TYR	H	8.001	0.020	1
1	A	163	TYR	HA	4.559	0.020	1
1	A	163	TYR	HB2	3.123	0.020	2
1	A	163	TYR	HB3	2.927	0.020	2
1	A	163	TYR	HD1	7.13	0.020	1
1	A	163	TYR	HD2	7.13	0.020	1
1	A	163	TYR	HE1	6.848	0.020	1
1	A	163	TYR	HE2	6.848	0.020	1
1	A	163	TYR	C	174.905	0.3	1
1	A	163	TYR	CA	57.885	0.3	1
1	A	163	TYR	CB	38.789	0.3	1
1	A	163	TYR	CD1	133.272	0.3	1
1	A	163	TYR	CE1	118.347	0.3	1
1	A	163	TYR	N	119.843	0.3	1
1	A	164	MET	H	7.854	0.020	1
1	A	164	MET	HA	4.788	0.020	1
1	A	164	MET	HB2	1.863	0.020	1
1	A	164	MET	HB3	1.863	0.020	1
1	A	164	MET	HG2	1.995	0.020	1
1	A	164	MET	HG3	1.995	0.020	1
1	A	164	MET	CA	52.121	0.3	1
1	A	164	MET	CB	33.155	0.3	1
1	A	164	MET	CG	33.129	0.3	1
1	A	164	MET	N	125.342	0.3	1
1	A	165	PRO	CA	62.988	0.3	1
1	A	165	PRO	CB	32.644	0.3	1
1	A	165	PRO	CD	52.145	0.3	1

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List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	A	167	PRO	HA	4.449	0.020	1
1	A	167	PRO	C	177.796	0.3	1
1	A	167	PRO	CA	63.377	0.3	1
1	A	167	PRO	CB	31.933	0.3	1
1	A	168	GLY	H	8.418	0.020	1
1	A	168	GLY	HA2	3.997	0.020	1
1	A	168	GLY	HA3	3.997	0.020	1
1	A	168	GLY	C	176.239	0.3	1
1	A	168	GLY	CA	45.361	0.3	1
1	A	168	GLY	N	109.083	0.3	1
1	A	169	MET	H	8.018	0.020	1
1	A	169	MET	HA	4.469	0.020	1
1	A	169	MET	HB2	2.075	0.020	1
1	A	169	MET	HB3	2.075	0.020	1
1	A	169	MET	C	174.435	0.3	1
1	A	169	MET	CA	55.532	0.3	1
1	A	169	MET	CB	31.918	0.3	1
1	A	169	MET	CE	17.0	0.3	1
1	A	169	MET	CG	32.0	0.3	1
1	A	169	MET	N	119.624	0.3	1
1	A	170	ILE	H	7.835	0.020	1
1	A	170	ILE	HA	4.284	0.020	1
1	A	170	ILE	HB	1.834	0.020	1
1	A	170	ILE	HD11	0.83	0.020	1
1	A	170	ILE	HD12	0.83	0.020	1
1	A	170	ILE	HD13	0.83	0.020	1
1	A	170	ILE	HG21	0.926	0.020	1
1	A	170	ILE	HG22	0.926	0.020	1
1	A	170	ILE	HG23	0.926	0.020	1
1	A	170	ILE	CA	57.591	0.3	1
1	A	170	ILE	CB	40.732	0.3	1
1	A	170	ILE	CD1	23.667	0.3	1
1	A	170	ILE	CG2	17.037	0.3	1
1	A	170	ILE	N	121.338	0.3	1
1	A	173	PRO	HA	4.455	0.020	1
1	A	173	PRO	HB2	2.333	0.020	1
1	A	173	PRO	HB3	2.333	0.020	1
1	A	173	PRO	C	177.573	0.3	1
1	A	173	PRO	CA	63.31	0.3	1
1	A	173	PRO	CB	31.675	0.3	1
1	A	173	PRO	CD	50.164	0.3	1

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List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	A	173	PRO	CG	27.132	0.3	1
1	A	174	GLY	H	8.361	0.020	1
1	A	174	GLY	HA2	3.979	0.020	1
1	A	174	GLY	HA3	3.979	0.020	1
1	A	174	GLY	C	173.891	0.3	1
1	A	174	GLY	CA	45.295	0.3	1
1	A	174	GLY	N	108.595	0.3	1
1	A	175	LEU	H	7.905	0.020	1
1	A	175	LEU	HA	4.443	0.020	1
1	A	175	LEU	HB2	1.638	0.020	1
1	A	175	LEU	HB3	1.638	0.020	1
1	A	175	LEU	HD11	0.909	0.020	2
1	A	175	LEU	HD12	0.909	0.020	2
1	A	175	LEU	HD13	0.909	0.020	2
1	A	175	LEU	HD21	0.969	0.020	2
1	A	175	LEU	HD22	0.969	0.020	2
1	A	175	LEU	HD23	0.969	0.020	2
1	A	175	LEU	C	176.56	0.3	1
1	A	175	LEU	CA	54.937	0.3	1
1	A	175	LEU	CB	42.785	0.3	1
1	A	175	LEU	CD1	23.7	0.3	1
1	A	175	LEU	CD2	23.805	0.3	1
1	A	175	LEU	CG	26.821	0.3	1
1	A	175	LEU	N	121.429	0.3	1
1	A	176	ALA	H	8.265	0.020	1
1	A	176	ALA	HA	4.657	0.020	1
1	A	176	ALA	HB1	1.408	0.020	1
1	A	176	ALA	HB2	1.408	0.020	1
1	A	176	ALA	HB3	1.408	0.020	1
1	A	176	ALA	CA	50.415	0.3	1
1	A	176	ALA	CB	18.207	0.3	1
1	A	176	ALA	N	126.406	0.3	1
1	A	177	PRO	HA	4.417	0.020	1
1	A	177	PRO	HB2	2.342	0.020	1
1	A	177	PRO	HB3	2.342	0.020	1
1	A	177	PRO	C	177.771	0.3	1
1	A	177	PRO	CA	63.794	0.3	1
1	A	177	PRO	CB	31.816	0.3	1
1	A	177	PRO	CD	50.282	0.3	1
1	A	177	PRO	CG	27.132	0.3	1
1	A	178	GLY	H	8.518	0.020	1

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List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	A	178	GLY	HA2	3.941	0.020	2
1	A	178	GLY	HA3	4.037	0.020	2
1	A	178	GLY	C	174.114	0.3	1
1	A	178	GLY	CA	45.402	0.3	1
1	A	178	GLY	N	109.56	0.3	1
1	A	179	GLN	H	8.056	0.020	1
1	A	179	GLN	HA	4.396	0.020	1
1	A	179	GLN	HB2	2.155	0.020	2
1	A	179	GLN	HB3	2.066	0.020	2
1	A	179	GLN	C	175.596	0.3	1
1	A	179	GLN	CA	55.829	0.3	1
1	A	179	GLN	CB	29.75	0.3	1
1	A	179	GLN	CG	33.819	0.3	1
1	A	179	GLN	N	119.634	0.3	1
1	A	180	ILE	H	8.156	0.020	1
1	A	180	ILE	HA	4.519	0.020	1
1	A	180	ILE	HB	1.918	0.020	1
1	A	180	ILE	HD11	0.911	0.020	1
1	A	180	ILE	HD12	0.911	0.020	1
1	A	180	ILE	HD13	0.911	0.020	1
1	A	180	ILE	HG12	1.232	0.020	2
1	A	180	ILE	HG13	1.579	0.020	2
1	A	180	ILE	HG21	1.005	0.020	1
1	A	180	ILE	HG22	1.005	0.020	1
1	A	180	ILE	HG23	1.005	0.020	1
1	A	180	ILE	CA	58.448	0.3	1
1	A	180	ILE	CB	38.739	0.3	1
1	A	180	ILE	CD1	12.679	0.3	1
1	A	180	ILE	CG1	27.024	0.3	1
1	A	180	ILE	CG2	17.214	0.3	1
1	A	180	ILE	N	123.603	0.3	1
1	A	182	PRO	HA	4.455	0.020	1
1	A	182	PRO	HB2	2.333	0.020	1
1	A	182	PRO	HB3	2.333	0.020	1
1	A	182	PRO	C	177.746	0.3	1
1	A	182	PRO	CA	63.377	0.3	1
1	A	182	PRO	CB	31.933	0.3	1
1	A	182	PRO	CD	50.282	0.3	1
1	A	182	PRO	CG	27.432	0.3	1
1	A	183	GLY	H	8.418	0.020	1
1	A	183	GLY	HA2	4.079	0.020	2

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List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	A	183	GLY	HA3	3.984	0.020	2
1	A	183	GLY	C	173.817	0.3	1
1	A	183	GLY	CA	45.295	0.3	1
1	A	183	GLY	N	108.789	0.3	1
1	A	184	ALA	H	7.984	0.020	1
1	A	184	ALA	HA	4.415	0.020	1
1	A	184	ALA	HB1	1.418	0.020	1
1	A	184	ALA	HB2	1.418	0.020	1
1	A	184	ALA	HB3	1.418	0.020	1
1	A	184	ALA	C	177.277	0.3	1
1	A	184	ALA	CA	52.181	0.3	1
1	A	184	ALA	CB	19.417	0.3	1
1	A	184	ALA	N	123.157	0.3	1
1	A	185	MET	H	8.193	0.020	1
1	A	185	MET	HA	4.859	0.020	1
1	A	185	MET	HB2	2.014	0.020	2
1	A	185	MET	HB3	2.111	0.020	2
1	A	185	MET	HG2	2.622	0.020	2
1	A	185	MET	HG3	2.707	0.020	2
1	A	185	MET	CA	53.244	0.3	1
1	A	185	MET	CB	32.785	0.3	1
1	A	185	MET	CE	17.18	0.3	1
1	A	185	MET	CG	32.208	0.3	1
1	A	185	MET	N	120.42	0.3	1
1	A	187	PRO	HA	4.462	0.020	1
1	A	187	PRO	HB2	2.347	0.020	1
1	A	187	PRO	HB3	2.347	0.020	1
1	A	187	PRO	C	177.079	0.3	1
1	A	187	PRO	CA	63.177	0.3	1
1	A	187	PRO	CB	31.866	0.3	1
1	A	187	PRO	CD	50.246	0.3	1
1	A	187	PRO	CG	27.203	0.3	1
1	A	188	GLN	H	8.413	0.020	1
1	A	188	GLN	HA	4.332	0.020	1
1	A	188	GLN	HB2	2.137	0.020	1
1	A	188	GLN	HB3	2.137	0.020	1
1	A	188	GLN	HG2	2.286	0.020	2
1	A	188	GLN	HG3	2.236	0.020	2
1	A	188	GLN	C	175.893	0.3	1
1	A	188	GLN	CA	56.131	0.3	1
1	A	188	GLN	CB	29.528	0.3	1

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List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	A	188	GLN	CG	35.115	0.3	1
1	A	188	GLN	N	119.859	0.3	1
1	A	189	GLN	H	8.339	0.020	1
1	A	189	GLN	HA	4.334	0.020	1
1	A	189	GLN	HB2	2.135	0.020	1
1	A	189	GLN	HB3	2.135	0.020	1
1	A	189	GLN	HG2	2.436	0.020	1
1	A	189	GLN	HG3	2.436	0.020	1
1	A	189	GLN	C	175.522	0.3	1
1	A	189	GLN	CA	56.171	0.3	1
1	A	189	GLN	CB	29.634	0.3	1
1	A	189	GLN	CG	33.852	0.3	1
1	A	189	GLN	N	120.982	0.3	1

7.1.2 Chemical shift referencing ⓘ

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction $\pm$ precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	117	-0.05 ± 0.13	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	107	-0.18 ± 0.24	None needed (< 0.5 ppm)
$^{13}\text{C}'$	100	0.22 ± 0.13	None needed (< 0.5 ppm)
^{15}N	100	0.21 ± 0.52	None needed (< 0.5 ppm)

7.1.3 Completeness of resonance assignments ⓘ

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 91%, i.e. 890 atoms were assigned a chemical shift out of a possible 980. 0 out of 12 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	342/349 (98%)	139/141 (99%)	137/140 (98%)	66/68 (97%)
Sidechain	484/537 (90%)	328/350 (94%)	146/168 (87%)	10/19 (53%)
Aromatic	64/94 (68%)	36/48 (75%)	28/44 (64%)	0/2 (0%)
Overall	890/980 (91%)	503/539 (93%)	311/352 (88%)	76/89 (85%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 85%, i.e. 1090 atoms were assigned a chemical shift out of a possible 1284. 0 out of 14 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	431/452 (95%)	177/182 (97%)	172/186 (92%)	82/84 (98%)
Sidechain	595/738 (81%)	389/480 (81%)	194/230 (84%)	12/28 (43%)
Aromatic	64/94 (68%)	36/48 (75%)	28/44 (64%)	0/2 (0%)
Overall	1090/1284 (85%)	602/710 (85%)	394/460 (86%)	94/114 (82%)

7.1.4 Statistically unusual chemical shifts [i](#)

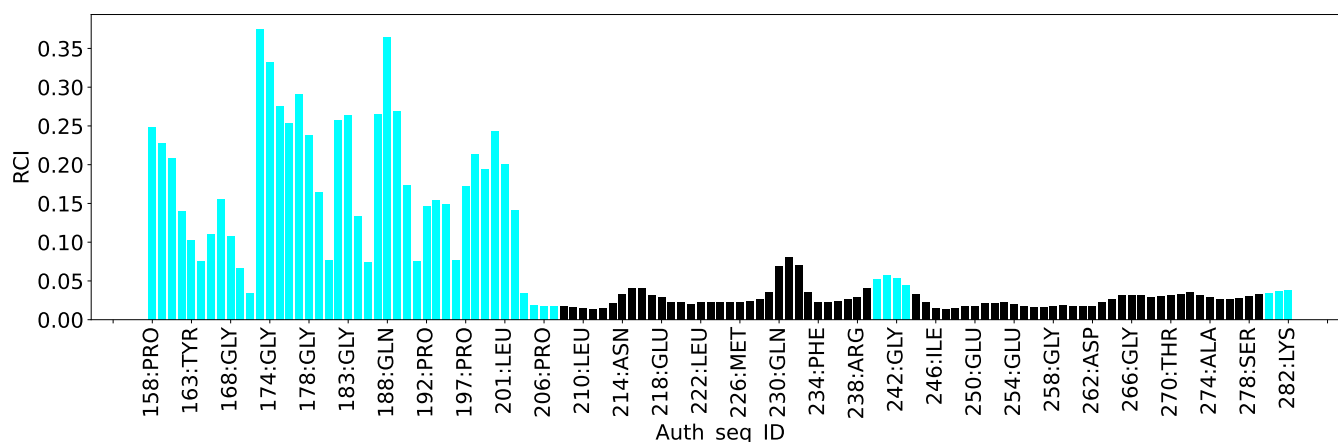
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	170	ILE	CD1	23.67	5.18 – 21.60	6.3
1	A	204	ASN	CB	30.34	30.50 – 46.89	-5.1

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

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

Random coil index (RCI) for chain A:



8 NMR restraints analysis

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	1717
Intra-residue ($ i-j =0$)	287
Sequential ($ i-j =1$)	413
Medium range ($ i-j >1$ and $ i-j <5$)	298
Long range ($ i-j \geq 5$)	659
Inter-chain	0
Hydrogen bond restraints	60
Disulfide bond restraints	0
Total dihedral-angle restraints	251
Number of unmapped restraints	0
Number of restraints per residue	15.6
Number of long range restraints per residue ¹	5.4

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

8.2 Residual restraint violations

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

8.2.1 Average number of distance violations per model

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

Bins (Å)	Average number of violations per model	Max (Å)
0.1-0.2 (Small)	60.1	0.2
0.2-0.5 (Medium)	17.5	0.41
>0.5 (Large)	0.1	0.56

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)	0.3	2.71
10.0-20.0 (Medium)	None	None
>20.0 (Large)	None	None

9 Distance violation analysis ⓘ

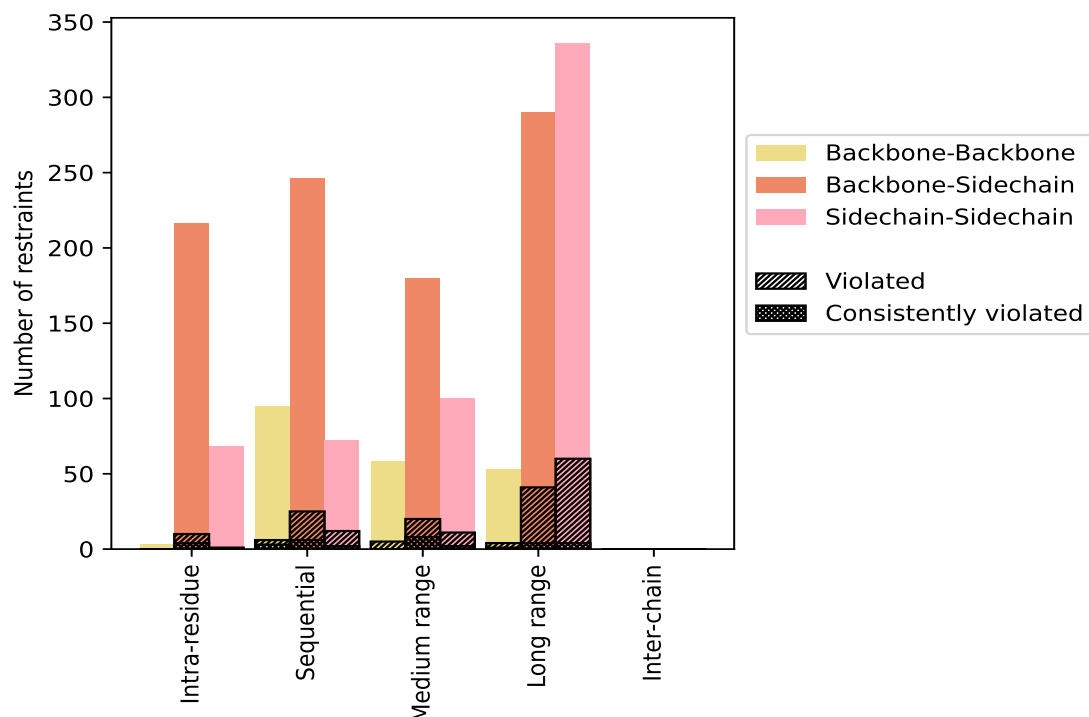
9.1 Summary of distance violations ⓘ

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)	287	16.7	11	3.8	0.6	4	1.4	0.2
Backbone-Backbone	3	0.2	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	216	12.6	10	4.6	0.6	4	1.9	0.2
Sidechain-Sidechain	68	4.0	1	1.5	0.1	0	0.0	0.0
Sequential (i-j =1)	413	24.1	43	10.4	2.5	11	2.7	0.6
Backbone-Backbone	95	5.5	6	6.3	0.3	3	3.2	0.2
Backbone-Sidechain	246	14.3	25	10.2	1.5	6	2.4	0.3
Sidechain-Sidechain	72	4.2	12	16.7	0.7	2	2.8	0.1
Medium range (i-j >1 & i-j <5)	298	17.4	24	8.1	1.4	4	1.3	0.2
Backbone-Backbone	58	3.4	5	8.6	0.3	0	0.0	0.0
Backbone-Sidechain	140	8.2	8	5.7	0.5	2	1.4	0.1
Sidechain-Sidechain	100	5.8	11	11.0	0.6	2	2.0	0.1
Long range (i-j ≥5)	659	38.4	102	15.5	5.9	9	1.4	0.5
Backbone-Backbone	53	3.1	4	7.5	0.2	1	1.9	0.1
Backbone-Sidechain	270	15.7	38	14.1	2.2	4	1.5	0.2
Sidechain-Sidechain	336	19.6	60	17.9	3.5	4	1.2	0.2
Inter-chain	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Hydrogen bond	60	3.5	15	25.0	0.9	6	10.0	0.3
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	1717	100.0	195	11.4	11.4	34	2.0	2.0
Backbone-Backbone	209	12.2	15	7.2	0.9	4	1.9	0.2
Backbone-Sidechain	932	54.3	96	10.3	5.6	22	2.4	1.3
Sidechain-Sidechain	576	33.5	84	14.6	4.9	8	1.4	0.5

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

9.1.1 Bar chart : Distribution of distance restraints and violations [i](#)



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

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

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

Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
1	6	20	19	38	0	83	0.16	0.4	0.05	0.15
2	6	23	21	32	0	82	0.17	0.56	0.07	0.16
3	6	21	20	35	0	82	0.17	0.38	0.06	0.16
4	5	20	20	33	0	78	0.17	0.37	0.06	0.15
5	5	17	19	35	0	76	0.17	0.36	0.05	0.16
6	5	25	21	33	0	84	0.17	0.39	0.06	0.16
7	5	19	24	31	0	79	0.17	0.36	0.06	0.16
8	6	19	23	32	0	80	0.18	0.52	0.07	0.16
9	6	19	21	32	0	78	0.17	0.36	0.06	0.15
10	5	21	20	42	0	88	0.17	0.35	0.05	0.15

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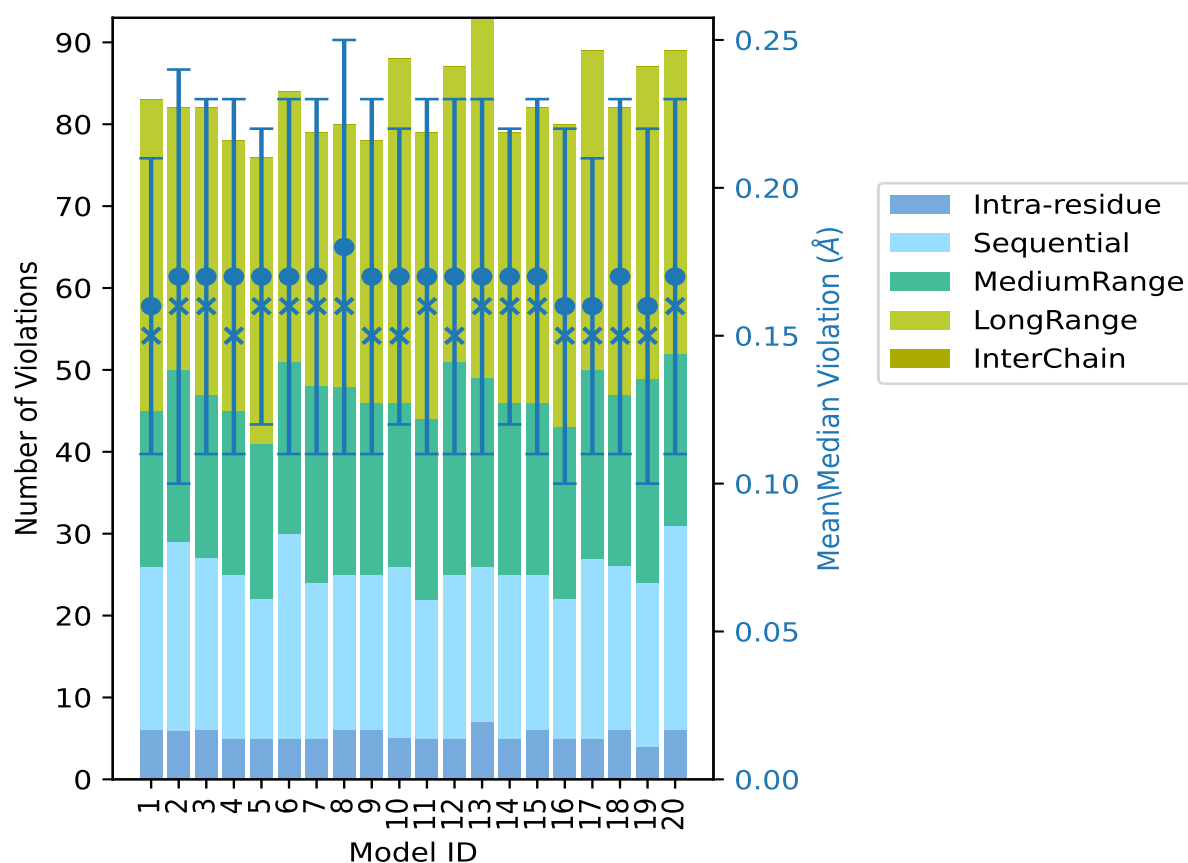
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Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
11	5	17	22	35	0	79	0.17	0.37	0.06	0.16
12	5	20	26	36	0	87	0.17	0.37	0.06	0.15
13	7	19	23	44	0	93	0.17	0.35	0.06	0.16
14	5	20	21	33	0	79	0.17	0.37	0.05	0.16
15	6	19	21	36	0	82	0.17	0.39	0.06	0.16
16	5	17	21	37	0	80	0.16	0.37	0.06	0.15
17	5	22	23	39	0	89	0.16	0.34	0.05	0.15
18	6	20	21	35	0	82	0.17	0.41	0.06	0.15
19	4	20	25	38	0	87	0.16	0.39	0.06	0.15
20	6	25	21	37	0	89	0.17	0.35	0.06	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 ⓘ



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

9.3 Distance violation statistics for the ensemble

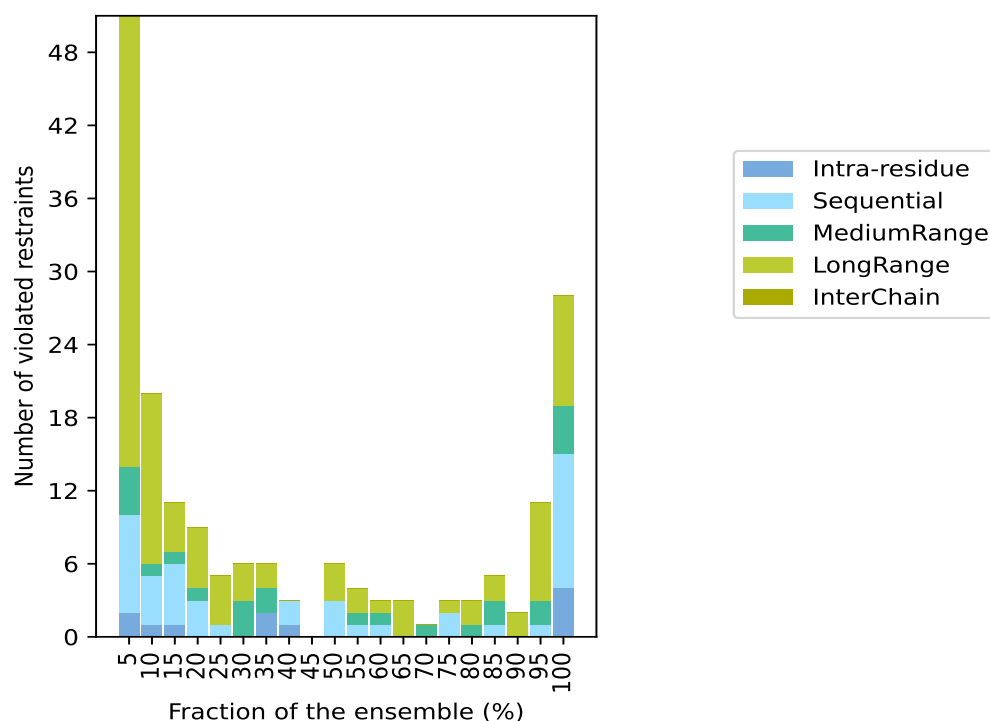
Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 1477(IR:276, SQ:370, MR:274, LR:557, IC:0) restraints are not violated in the ensemble.

Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
2	8	4	37	0	51	1	5.0
1	4	1	14	0	20	2	10.0
1	5	1	4	0	11	3	15.0
0	3	1	5	0	9	4	20.0
0	1	0	4	0	5	5	25.0
0	0	3	3	0	6	6	30.0
2	0	2	2	0	6	7	35.0
1	2	0	0	0	3	8	40.0
0	0	0	0	0	0	9	45.0
0	3	0	3	0	6	10	50.0
0	1	1	2	0	4	11	55.0
0	1	1	1	0	3	12	60.0
0	0	0	3	0	3	13	65.0
0	0	1	0	0	1	14	70.0
0	2	0	1	0	3	15	75.0
0	0	1	2	0	3	16	80.0
0	1	2	2	0	5	17	85.0
0	0	0	2	0	2	18	90.0
0	1	2	8	0	11	19	95.0
4	11	4	9	0	28	20	100.0

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

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

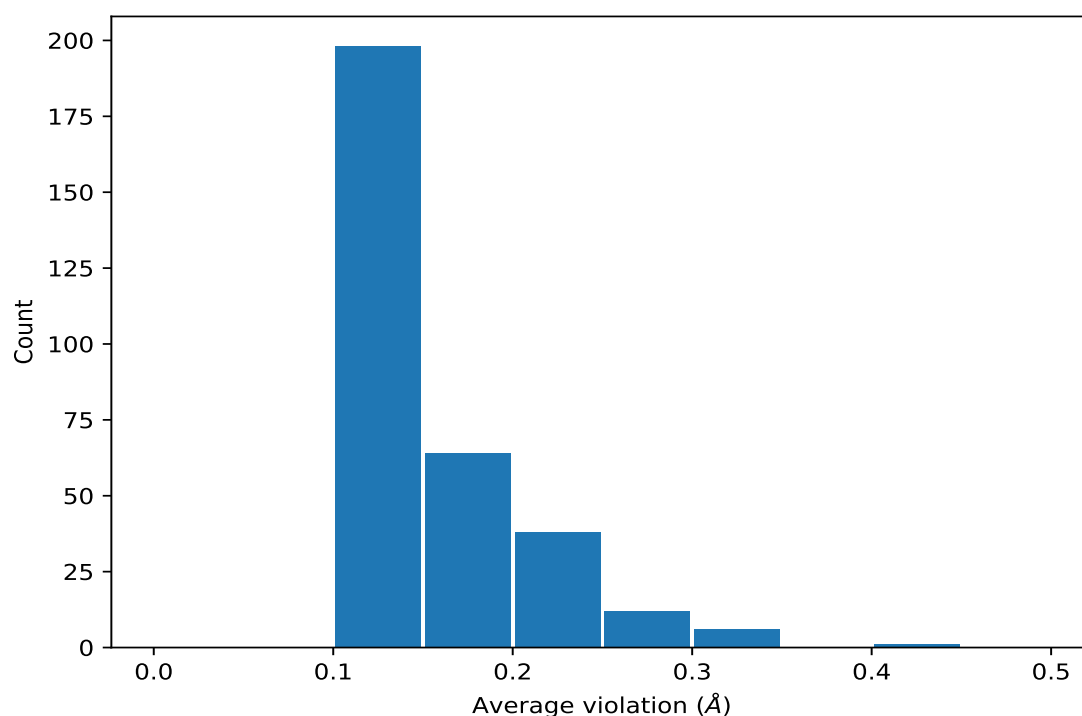
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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

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

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



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

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

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1144)	1:250:A:GLU:HA	1:257:A:ALA:H	20	0.34	0.05	0.35
(1,316)	1:212:A:LEU:HA	1:276:A:LYS:HB3	20	0.31	0.07	0.33
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB1	20	0.29	0.01	0.29
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB2	20	0.29	0.01	0.29
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB3	20	0.29	0.01	0.29
(1,1344)	1:263:A:ALA:HB1	1:265:A:GLN:HB2	20	0.24	0.02	0.24
(1,1344)	1:263:A:ALA:HB2	1:265:A:GLN:HB2	20	0.24	0.02	0.24
(1,1344)	1:263:A:ALA:HB3	1:265:A:GLN:HB2	20	0.24	0.02	0.24
(2,44)	1:265:A:GLN:H	1:261:A:ARG:O	20	0.22	0.03	0.23
(2,52)	1:263:A:ALA:H	1:259:A:ALA:O	20	0.22	0.02	0.22
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD21	20	0.22	0.02	0.23
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD22	20	0.22	0.02	0.23
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD23	20	0.22	0.02	0.23
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD21	20	0.22	0.02	0.23
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD22	20	0.22	0.02	0.23
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD23	20	0.22	0.02	0.23

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,115)	1:207:A:ASN:HD22	1:248:A:PHE:HD1	20	0.22	0.05	0.21
(1,115)	1:207:A:ASN:HD22	1:248:A:PHE:HD2	20	0.22	0.05	0.21
(1,580)	1:220:A:ASN:HD21	1:221:A:GLU:H	20	0.21	0.02	0.21
(1,899)	1:234:A:PHE:H	1:234:A:PHE:HD1	20	0.2	0.03	0.21
(1,899)	1:234:A:PHE:H	1:234:A:PHE:HD2	20	0.2	0.03	0.21
(1,346)	1:212:A:LEU:HD11	1:277:A:ILE:H	20	0.2	0.06	0.18
(1,346)	1:212:A:LEU:HD12	1:277:A:ILE:H	20	0.2	0.06	0.18
(1,346)	1:212:A:LEU:HD13	1:277:A:ILE:H	20	0.2	0.06	0.18
(1,1338)	1:263:A:ALA:H	1:277:A:ILE:HB	20	0.2	0.02	0.21
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG21	20	0.19	0.02	0.19
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG22	20	0.19	0.02	0.19
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG23	20	0.19	0.02	0.19
(2,54)	1:262:A:ASP:H	1:258:A:GLY:O	20	0.19	0.02	0.2
(1,754)	1:227:A:LEU:HB2	1:228:A:PHE:H	20	0.19	0.01	0.19
(1,541)	1:218:A:GLU:HA	1:219:A:THR:H	20	0.19	0.02	0.18
(1,811)	1:228:A:PHE:HD1	1:249:A:VAL:HB	20	0.18	0.02	0.18
(1,811)	1:228:A:PHE:HD2	1:249:A:VAL:HB	20	0.18	0.02	0.18
(2,48)	1:264:A:LEU:H	1:261:A:ARG:O	20	0.18	0.02	0.18
(2,32)	1:224:A:LEU:O	1:228:A:PHE:H	20	0.18	0.01	0.18
(1,572)	1:220:A:ASN:HA	1:220:A:ASN:HD21	20	0.18	0.0	0.18
(1,1175)	1:251:A:PHE:HD1	1:259:A:ALA:H	20	0.17	0.02	0.18
(1,1175)	1:251:A:PHE:HD2	1:259:A:ALA:H	20	0.17	0.02	0.18
(2,53)	1:262:A:ASP:N	1:258:A:GLY:O	20	0.17	0.01	0.17
(1,586)	1:220:A:ASN:HD21	1:224:A:LEU:H	20	0.17	0.01	0.17
(1,1227)	1:255:A:VAL:HG11	1:257:A:ALA:H	20	0.16	0.02	0.16
(1,1227)	1:255:A:VAL:HG12	1:257:A:ALA:H	20	0.16	0.02	0.16
(1,1227)	1:255:A:VAL:HG13	1:257:A:ALA:H	20	0.16	0.02	0.16
(1,880)	1:232:A:PRO:HA	1:233:A:GLY:H	20	0.16	0.04	0.16
(1,1369)	1:265:A:GLN:H	1:265:A:GLN:HE21	20	0.16	0.03	0.16
(1,122)	1:208:A:HIS:HA	1:208:A:HIS:HD2	20	0.15	0.01	0.15
(1,1229)	1:255:A:VAL:HG21	1:256:A:GLN:H	20	0.14	0.01	0.14
(1,1229)	1:255:A:VAL:HG22	1:256:A:GLN:H	20	0.14	0.01	0.14
(1,1229)	1:255:A:VAL:HG23	1:256:A:GLN:H	20	0.14	0.01	0.14
(1,1342)	1:263:A:ALA:HB1	1:264:A:LEU:HB2	20	0.14	0.01	0.14
(1,1342)	1:263:A:ALA:HB1	1:264:A:LEU:HB3	20	0.14	0.01	0.14
(1,1342)	1:263:A:ALA:HB2	1:264:A:LEU:HB2	20	0.14	0.01	0.14
(1,1342)	1:263:A:ALA:HB2	1:264:A:LEU:HB3	20	0.14	0.01	0.14
(1,1342)	1:263:A:ALA:HB3	1:264:A:LEU:HB2	20	0.14	0.01	0.14
(1,1342)	1:263:A:ALA:HB3	1:264:A:LEU:HB3	20	0.14	0.01	0.14
(1,885)	1:233:A:GLY:H	1:234:A:PHE:H	20	0.14	0.02	0.14
(1,656)	1:223:A:MET:HB2	1:224:A:LEU:H	20	0.13	0.01	0.13
(1,808)	1:228:A:PHE:HD1	1:229:A:ASN:H	20	0.13	0.01	0.13

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,808)	1:228:A:PHE:HD2	1:229:A:ASN:H	20	0.13	0.01	0.13
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG21	20	0.13	0.01	0.13
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG22	20	0.13	0.01	0.13
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG23	20	0.13	0.01	0.13
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG21	20	0.13	0.01	0.13
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG22	20	0.13	0.01	0.13
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG23	20	0.13	0.01	0.13
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG21	20	0.13	0.01	0.13
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG22	20	0.13	0.01	0.13
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG23	20	0.13	0.01	0.13
(1,760)	1:227:A:LEU:HB3	1:228:A:PHE:H	20	0.11	0.01	0.11
(1,897)	1:233:A:GLY:HA3	1:256:A:GLN:HG2	19	0.27	0.01	0.27
(1,804)	1:228:A:PHE:HZ	1:251:A:PHE:HE1	19	0.22	0.01	0.23
(1,804)	1:228:A:PHE:HZ	1:251:A:PHE:HE2	19	0.22	0.01	0.23
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD11	19	0.22	0.03	0.22
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD12	19	0.22	0.03	0.22
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD13	19	0.22	0.03	0.22
(1,615)	1:221:A:GLU:HG2	1:234:A:PHE:HZ	19	0.19	0.05	0.17
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG21	19	0.18	0.02	0.17
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG22	19	0.18	0.02	0.17
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG23	19	0.18	0.02	0.17
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG21	19	0.18	0.02	0.17
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG22	19	0.18	0.02	0.17
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG23	19	0.18	0.02	0.17
(1,1083)	1:245:A:ASP:HA	1:273:A:ASN:HB3	19	0.16	0.03	0.17
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD11	19	0.16	0.01	0.16
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD12	19	0.16	0.01	0.16
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD13	19	0.16	0.01	0.16
(1,684)	1:224:A:LEU:HB2	1:225:A:SER:H	19	0.16	0.02	0.16
(1,183)	1:209:A:ILE:HG21	1:249:A:VAL:H	19	0.14	0.02	0.14
(1,183)	1:209:A:ILE:HG22	1:249:A:VAL:H	19	0.14	0.02	0.14
(1,183)	1:209:A:ILE:HG23	1:249:A:VAL:H	19	0.14	0.02	0.14
(1,866)	1:231:A:PHE:HB3	1:251:A:PHE:HD1	19	0.13	0.02	0.13
(1,866)	1:231:A:PHE:HB3	1:251:A:PHE:HD2	19	0.13	0.02	0.13
(2,38)	1:227:A:LEU:H	1:224:A:LEU:O	19	0.12	0.01	0.12
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB1	19	0.12	0.01	0.12
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB2	19	0.12	0.01	0.12
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB3	19	0.12	0.01	0.12
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB1	19	0.12	0.01	0.12
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB2	19	0.12	0.01	0.12
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB3	19	0.12	0.01	0.12
(1,399)	1:214:A:ASN:HB2	1:266:A:GLY:HA2	18	0.28	0.03	0.3

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,123)	1:208:A:HIS:HA	1:257:A:ALA:H	18	0.16	0.03	0.16
(1,222)	1:210:A:LEU:HG	1:261:A:ARG:HG3	17	0.21	0.02	0.2
(1,157)	1:209:A:ILE:HG12	1:238:A:ARG:HB2	17	0.17	0.02	0.17
(1,1143)	1:250:A:GLU:HA	1:251:A:PHE:HD1	17	0.14	0.02	0.14
(1,1143)	1:250:A:GLU:HA	1:251:A:PHE:HD2	17	0.14	0.02	0.14
(1,1196)	1:253:A:ASN:H	1:256:A:GLN:HA	17	0.13	0.03	0.12
(2,22)	1:220:A:ASN:O	1:223:A:MET:H	17	0.12	0.02	0.12
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD11	17	0.11	0.01	0.11
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD12	17	0.11	0.01	0.11
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD13	17	0.11	0.01	0.11
(1,116)	1:207:A:ASN:HD22	1:280:A:ALA:H	16	0.14	0.03	0.13
(1,114)	1:207:A:ASN:HD22	1:210:A:LEU:H	16	0.14	0.03	0.13
(1,933)	1:235:A:LYS:H	1:252:A:ASP:H	16	0.12	0.01	0.12
(1,1456)	1:268:A:LYS:HD2	1:269:A:ILE:HA	15	0.15	0.05	0.14
(1,1456)	1:268:A:LYS:HD3	1:269:A:ILE:HA	15	0.15	0.05	0.14
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG21	15	0.12	0.02	0.11
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG22	15	0.12	0.02	0.11
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG23	15	0.12	0.02	0.11
(1,696)	1:224:A:LEU:HD11	1:225:A:SER:H	15	0.11	0.01	0.1
(1,696)	1:224:A:LEU:HD12	1:225:A:SER:H	15	0.11	0.01	0.1
(1,696)	1:224:A:LEU:HD13	1:225:A:SER:H	15	0.11	0.01	0.1
(1,1519)	1:274:A:ALA:HA	1:276:A:LYS:HD2	14	0.18	0.02	0.18
(1,1519)	1:274:A:ALA:HA	1:276:A:LYS:HD3	14	0.18	0.02	0.18
(2,42)	1:228:A:PHE:H	1:225:A:SER:O	14	0.13	0.01	0.13
(1,403)	1:214:A:ASN:HB2	1:276:A:LYS:H	13	0.12	0.02	0.13
(1,218)	1:210:A:LEU:HG	1:261:A:ARG:H	13	0.12	0.01	0.12
(1,613)	1:221:A:GLU:HB3	1:239:A:LEU:HD21	13	0.12	0.01	0.11
(1,613)	1:221:A:GLU:HB3	1:239:A:LEU:HD22	13	0.12	0.01	0.11
(1,613)	1:221:A:GLU:HB3	1:239:A:LEU:HD23	13	0.12	0.01	0.11
(1,1503)	1:272:A:ASN:H	1:273:A:ASN:HD21	12	0.16	0.02	0.15
(1,1503)	1:272:A:ASN:H	1:273:A:ASN:HD22	12	0.16	0.02	0.15
(1,773)	1:227:A:LEU:HD11	1:269:A:ILE:HG21	12	0.12	0.01	0.12
(1,773)	1:227:A:LEU:HD11	1:269:A:ILE:HG22	12	0.12	0.01	0.12
(1,773)	1:227:A:LEU:HD11	1:269:A:ILE:HG23	12	0.12	0.01	0.12
(1,773)	1:227:A:LEU:HD12	1:269:A:ILE:HG21	12	0.12	0.01	0.12
(1,773)	1:227:A:LEU:HD12	1:269:A:ILE:HG22	12	0.12	0.01	0.12
(1,773)	1:227:A:LEU:HD12	1:269:A:ILE:HG23	12	0.12	0.01	0.12
(1,773)	1:227:A:LEU:HD13	1:269:A:ILE:HG21	12	0.12	0.01	0.12
(1,773)	1:227:A:LEU:HD13	1:269:A:ILE:HG22	12	0.12	0.01	0.12
(1,773)	1:227:A:LEU:HD13	1:269:A:ILE:HG23	12	0.12	0.01	0.12
(1,1411)	1:267:A:PHE:H	1:269:A:ILE:H	12	0.11	0.01	0.11
(1,1301)	1:261:A:ARG:HB2	1:262:A:ASP:HB2	11	0.14	0.01	0.14

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1301)	1:261:A:ARG:HB2	1:262:A:ASP:HB3	11	0.14	0.01	0.14
(1,167)	1:209:A:ILE:HD11	1:236:A:GLU:H	11	0.13	0.03	0.13
(1,167)	1:209:A:ILE:HD12	1:236:A:GLU:H	11	0.13	0.03	0.13
(1,167)	1:209:A:ILE:HD13	1:236:A:GLU:H	11	0.13	0.03	0.13
(1,970)	1:237:A:VAL:HB	1:250:A:GLU:H	11	0.11	0.01	0.11
(1,1432)	1:267:A:PHE:HD1	1:269:A:ILE:HB	11	0.11	0.01	0.11
(1,1432)	1:267:A:PHE:HD2	1:269:A:ILE:HB	11	0.11	0.01	0.11
(1,958)	1:236:A:GLU:HB3	1:237:A:VAL:H	10	0.24	0.06	0.22
(1,947)	1:235:A:LYS:HG3	1:253:A:ASN:HB3	10	0.16	0.02	0.16
(2,28)	1:222:A:LEU:O	1:226:A:MET:H	10	0.14	0.01	0.15
(1,108)	1:207:A:ASN:HD21	1:282:A:LYS:HD2	10	0.14	0.02	0.14
(1,108)	1:207:A:ASN:HD21	1:282:A:LYS:HD3	10	0.14	0.02	0.14
(1,936)	1:235:A:LYS:HB2	1:236:A:GLU:H	10	0.13	0.03	0.12
(1,622)	1:221:A:GLU:HG3	1:239:A:LEU:H	10	0.13	0.02	0.12
(1,1489)	1:270:A:THR:HG21	1:271:A:GLN:HG2	10	0.12	0.01	0.12
(1,1489)	1:270:A:THR:HG21	1:271:A:GLN:HG3	10	0.12	0.01	0.12
(1,1489)	1:270:A:THR:HG22	1:271:A:GLN:HG2	10	0.12	0.01	0.12
(1,1489)	1:270:A:THR:HG22	1:271:A:GLN:HG3	10	0.12	0.01	0.12
(1,1489)	1:270:A:THR:HG23	1:271:A:GLN:HG2	10	0.12	0.01	0.12
(1,1489)	1:270:A:THR:HG23	1:271:A:GLN:HG3	10	0.12	0.01	0.12
(1,944)	1:235:A:LYS:HB3	1:236:A:GLU:HG2	8	0.2	0.05	0.2
(1,944)	1:235:A:LYS:HB3	1:236:A:GLU:HG3	8	0.2	0.05	0.2
(1,926)	1:235:A:LYS:H	1:235:A:LYS:HG2	8	0.15	0.01	0.15
(1,926)	1:235:A:LYS:H	1:235:A:LYS:HG3	8	0.15	0.01	0.15
(1,1526)	1:275:A:MET:H	1:276:A:LYS:H	8	0.13	0.02	0.13
(1,1008)	1:238:A:ARG:HD2	1:248:A:PHE:HB2	7	0.16	0.02	0.15
(1,62)	1:204:A:ASN:HD21	1:281:A:LYS:HA	7	0.14	0.05	0.13
(1,100)	1:207:A:ASN:HB2	1:209:A:ILE:HD11	7	0.14	0.04	0.14
(1,100)	1:207:A:ASN:HB2	1:209:A:ILE:HD12	7	0.14	0.04	0.14
(1,100)	1:207:A:ASN:HB2	1:209:A:ILE:HD13	7	0.14	0.04	0.14
(1,1090)	1:246:A:ILE:H	1:246:A:ILE:HD11	7	0.12	0.01	0.12
(1,1090)	1:246:A:ILE:H	1:246:A:ILE:HD12	7	0.12	0.01	0.12
(1,1090)	1:246:A:ILE:H	1:246:A:ILE:HD13	7	0.12	0.01	0.12
(1,1563)	1:278:A:SER:H	1:280:A:ALA:H	7	0.11	0.02	0.11
(1,674)	1:224:A:LEU:H	1:224:A:LEU:HG	7	0.1	0.0	0.1
(1,418)	1:214:A:ASN:HD21	1:276:A:LYS:HG3	6	0.25	0.1	0.3
(1,16)	1:193:A:GLY:HA2	1:195:A:MET:HA	6	0.18	0.04	0.2
(1,16)	1:193:A:GLY:HA3	1:195:A:MET:HA	6	0.18	0.04	0.2
(2,14)	1:236:A:GLU:H	1:250:A:GLU:O	6	0.12	0.01	0.12
(1,857)	1:231:A:PHE:H	1:234:A:PHE:HD1	6	0.11	0.01	0.11
(1,857)	1:231:A:PHE:H	1:234:A:PHE:HD2	6	0.11	0.01	0.11
(1,278)	1:211:A:PHE:HZ	1:213:A:THR:HB	6	0.11	0.01	0.11

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,357)	1:212:A:LEU:HD21	1:264:A:LEU:HD11	6	0.11	0.01	0.11
(1,357)	1:212:A:LEU:HD21	1:264:A:LEU:HD12	6	0.11	0.01	0.11
(1,357)	1:212:A:LEU:HD21	1:264:A:LEU:HD13	6	0.11	0.01	0.11
(1,357)	1:212:A:LEU:HD22	1:264:A:LEU:HD11	6	0.11	0.01	0.11
(1,357)	1:212:A:LEU:HD22	1:264:A:LEU:HD12	6	0.11	0.01	0.11
(1,357)	1:212:A:LEU:HD22	1:264:A:LEU:HD13	6	0.11	0.01	0.11
(1,357)	1:212:A:LEU:HD23	1:264:A:LEU:HD11	6	0.11	0.01	0.11
(1,357)	1:212:A:LEU:HD23	1:264:A:LEU:HD12	6	0.11	0.01	0.11
(1,357)	1:212:A:LEU:HD23	1:264:A:LEU:HD13	6	0.11	0.01	0.11
(1,559)	1:219:A:THR:HG21	1:227:A:LEU:HG	6	0.11	0.0	0.11
(1,559)	1:219:A:THR:HG22	1:227:A:LEU:HG	6	0.11	0.0	0.11
(1,559)	1:219:A:THR:HG23	1:227:A:LEU:HG	6	0.11	0.0	0.11
(1,489)	1:216:A:PRO:HB2	1:269:A:ILE:HD11	5	0.14	0.04	0.12
(1,489)	1:216:A:PRO:HB2	1:269:A:ILE:HD12	5	0.14	0.04	0.12
(1,489)	1:216:A:PRO:HB2	1:269:A:ILE:HD13	5	0.14	0.04	0.12
(2,10)	1:214:A:ASN:H	1:245:A:ASP:O	5	0.13	0.02	0.13
(1,1047)	1:240:A:VAL:HG11	1:246:A:ILE:HB	5	0.12	0.01	0.12
(1,1047)	1:240:A:VAL:HG12	1:246:A:ILE:HB	5	0.12	0.01	0.12
(1,1047)	1:240:A:VAL:HG13	1:246:A:ILE:HB	5	0.12	0.01	0.12
(1,429)	1:215:A:LEU:H	1:269:A:ILE:HD11	5	0.12	0.01	0.12
(1,429)	1:215:A:LEU:H	1:269:A:ILE:HD12	5	0.12	0.01	0.12
(1,429)	1:215:A:LEU:H	1:269:A:ILE:HD13	5	0.12	0.01	0.12
(1,1548)	1:276:A:LYS:HD2	1:277:A:ILE:H	5	0.12	0.01	0.12
(1,1548)	1:276:A:LYS:HD3	1:277:A:ILE:H	5	0.12	0.01	0.12
(1,1426)	1:267:A:PHE:HB3	1:275:A:MET:HE1	5	0.11	0.01	0.11
(1,1426)	1:267:A:PHE:HB3	1:275:A:MET:HE2	5	0.11	0.01	0.11
(1,1426)	1:267:A:PHE:HB3	1:275:A:MET:HE3	5	0.11	0.01	0.11
(1,30)	1:197:A:PRO:HA	1:198:A:ALA:H	4	0.42	0.13	0.44
(1,1498)	1:271:A:GLN:HB2	1:273:A:ASN:H	4	0.19	0.02	0.2
(1,1498)	1:271:A:GLN:HB3	1:273:A:ASN:H	4	0.19	0.02	0.2
(1,618)	1:221:A:GLU:HG2	1:239:A:LEU:H	4	0.18	0.08	0.15
(1,39)	1:198:A:ALA:HB1	1:199:A:GLN:HB2	4	0.18	0.05	0.16
(1,39)	1:198:A:ALA:HB1	1:199:A:GLN:HB3	4	0.18	0.05	0.16
(1,39)	1:198:A:ALA:HB2	1:199:A:GLN:HB2	4	0.18	0.05	0.16
(1,39)	1:198:A:ALA:HB2	1:199:A:GLN:HB3	4	0.18	0.05	0.16
(1,39)	1:198:A:ALA:HB3	1:199:A:GLN:HB2	4	0.18	0.05	0.16
(1,39)	1:198:A:ALA:HB3	1:199:A:GLN:HB3	4	0.18	0.05	0.16
(1,941)	1:235:A:LYS:HB2	1:253:A:ASN:HB3	4	0.16	0.1	0.1
(1,635)	1:222:A:LEU:HG	1:223:A:MET:H	4	0.14	0.01	0.14
(1,435)	1:215:A:LEU:HA	1:269:A:ILE:HG21	4	0.11	0.01	0.12
(1,435)	1:215:A:LEU:HA	1:269:A:ILE:HG22	4	0.11	0.01	0.12
(1,435)	1:215:A:LEU:HA	1:269:A:ILE:HG23	4	0.11	0.01	0.12

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1436)	1:267:A:PHE:HD1	1:275:A:MET:HG2	4	0.11	0.0	0.11
(1,1436)	1:267:A:PHE:HD1	1:275:A:MET:HG3	4	0.11	0.0	0.11
(1,1436)	1:267:A:PHE:HD2	1:275:A:MET:HG2	4	0.11	0.0	0.11
(1,1436)	1:267:A:PHE:HD2	1:275:A:MET:HG3	4	0.11	0.0	0.11
(1,179)	1:209:A:ILE:HG21	1:238:A:ARG:HB2	4	0.11	0.0	0.11
(1,179)	1:209:A:ILE:HG22	1:238:A:ARG:HB2	4	0.11	0.0	0.11
(1,179)	1:209:A:ILE:HG23	1:238:A:ARG:HB2	4	0.11	0.0	0.11
(1,717)	1:225:A:SER:HB2	1:237:A:VAL:H	3	0.18	0.05	0.21
(1,717)	1:225:A:SER:HB3	1:237:A:VAL:H	3	0.18	0.05	0.21
(1,1013)	1:238:A:ARG:HG2	1:239:A:LEU:HA	3	0.17	0.01	0.17
(1,1013)	1:238:A:ARG:HG3	1:239:A:LEU:HA	3	0.17	0.01	0.17
(1,983)	1:238:A:ARG:H	1:238:A:ARG:HG2	3	0.16	0.0	0.16
(1,983)	1:238:A:ARG:H	1:238:A:ARG:HG3	3	0.16	0.0	0.16
(1,46)	1:200:A:PRO:HG2	1:201:A:LEU:HB2	3	0.15	0.02	0.15
(1,46)	1:200:A:PRO:HG2	1:201:A:LEU:HB3	3	0.15	0.02	0.15
(1,46)	1:200:A:PRO:HG3	1:201:A:LEU:HB2	3	0.15	0.02	0.15
(1,46)	1:200:A:PRO:HG3	1:201:A:LEU:HB3	3	0.15	0.02	0.15
(1,118)	1:207:A:ASN:HD22	1:282:A:LYS:H	3	0.15	0.01	0.15
(1,1307)	1:261:A:ARG:HD2	1:262:A:ASP:H	3	0.14	0.0	0.14
(1,69)	1:204:A:ASN:HB2	1:205:A:PRO:HB2	3	0.14	0.02	0.13
(1,69)	1:204:A:ASN:HB2	1:205:A:PRO:HB3	3	0.14	0.02	0.13
(1,69)	1:204:A:ASN:HB3	1:205:A:PRO:HB2	3	0.14	0.02	0.13
(1,69)	1:204:A:ASN:HB3	1:205:A:PRO:HB3	3	0.14	0.02	0.13
(1,168)	1:209:A:ILE:HD11	1:237:A:VAL:H	3	0.13	0.01	0.13
(1,168)	1:209:A:ILE:HD12	1:237:A:VAL:H	3	0.13	0.01	0.13
(1,168)	1:209:A:ILE:HD13	1:237:A:VAL:H	3	0.13	0.01	0.13
(1,1522)	1:274:A:ALA:HB1	1:276:A:LYS:HD2	3	0.13	0.01	0.13
(1,1522)	1:274:A:ALA:HB1	1:276:A:LYS:HD3	3	0.13	0.01	0.13
(1,1522)	1:274:A:ALA:HB2	1:276:A:LYS:HD2	3	0.13	0.01	0.13
(1,1522)	1:274:A:ALA:HB2	1:276:A:LYS:HD3	3	0.13	0.01	0.13
(1,1522)	1:274:A:ALA:HB3	1:276:A:LYS:HD2	3	0.13	0.01	0.13
(1,1522)	1:274:A:ALA:HB3	1:276:A:LYS:HD3	3	0.13	0.01	0.13
(1,1137)	1:249:A:VAL:HG21	1:250:A:GLU:HA	3	0.1	0.0	0.1
(1,1137)	1:249:A:VAL:HG22	1:250:A:GLU:HA	3	0.1	0.0	0.1
(1,1137)	1:249:A:VAL:HG23	1:250:A:GLU:HA	3	0.1	0.0	0.1
(1,871)	1:231:A:PHE:HD1	1:260:A:ALA:HB1	3	0.1	0.0	0.1
(1,871)	1:231:A:PHE:HD1	1:260:A:ALA:HB2	3	0.1	0.0	0.1
(1,871)	1:231:A:PHE:HD1	1:260:A:ALA:HB3	3	0.1	0.0	0.1
(1,871)	1:231:A:PHE:HD2	1:260:A:ALA:HB1	3	0.1	0.0	0.1
(1,871)	1:231:A:PHE:HD2	1:260:A:ALA:HB2	3	0.1	0.0	0.1
(1,871)	1:231:A:PHE:HD2	1:260:A:ALA:HB3	3	0.1	0.0	0.1
(1,101)	1:207:A:ASN:HB2	1:282:A:LYS:HB2	2	0.34	0.02	0.34

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,101)	1:207:A:ASN:HB2	1:282:A:LYS:HB3	2	0.34	0.02	0.34
(1,685)	1:224:A:LEU:HB2	1:225:A:SER:HB2	2	0.33	0.01	0.33
(1,685)	1:224:A:LEU:HB2	1:225:A:SER:HB3	2	0.33	0.01	0.33
(1,40)	1:198:A:ALA:HB1	1:199:A:GLN:HG2	2	0.26	0.03	0.26
(1,40)	1:198:A:ALA:HB1	1:199:A:GLN:HG3	2	0.26	0.03	0.26
(1,40)	1:198:A:ALA:HB2	1:199:A:GLN:HG2	2	0.26	0.03	0.26
(1,40)	1:198:A:ALA:HB2	1:199:A:GLN:HG3	2	0.26	0.03	0.26
(1,40)	1:198:A:ALA:HB3	1:199:A:GLN:HG2	2	0.26	0.03	0.26
(1,40)	1:198:A:ALA:HB3	1:199:A:GLN:HG3	2	0.26	0.03	0.26
(1,109)	1:207:A:ASN:HD21	1:282:A:LYS:HG2	2	0.24	0.03	0.24
(1,109)	1:207:A:ASN:HD21	1:282:A:LYS:HG3	2	0.24	0.03	0.24
(1,1010)	1:238:A:ARG:HD3	1:248:A:PHE:HB2	2	0.22	0.01	0.22
(1,388)	1:213:A:THR:HG21	1:276:A:LYS:HD2	2	0.21	0.01	0.21
(1,388)	1:213:A:THR:HG21	1:276:A:LYS:HD3	2	0.21	0.01	0.21
(1,388)	1:213:A:THR:HG22	1:276:A:LYS:HD2	2	0.21	0.01	0.21
(1,388)	1:213:A:THR:HG22	1:276:A:LYS:HD3	2	0.21	0.01	0.21
(1,388)	1:213:A:THR:HG23	1:276:A:LYS:HD2	2	0.21	0.01	0.21
(1,388)	1:213:A:THR:HG23	1:276:A:LYS:HD3	2	0.21	0.01	0.21
(1,416)	1:214:A:ASN:HD21	1:274:A:ALA:H	2	0.19	0.0	0.19
(1,1405)	1:266:A:GLY:HA2	1:276:A:LYS:HG2	2	0.17	0.0	0.17
(1,1405)	1:266:A:GLY:HA2	1:276:A:LYS:HG3	2	0.17	0.0	0.17
(1,1582)	1:281:A:LYS:HA	1:281:A:LYS:HD2	2	0.17	0.03	0.17
(1,1582)	1:281:A:LYS:HA	1:281:A:LYS:HD3	2	0.17	0.03	0.17
(1,617)	1:221:A:GLU:HG2	1:238:A:ARG:HA	2	0.16	0.04	0.16
(1,106)	1:207:A:ASN:HD21	1:282:A:LYS:HA	2	0.15	0.0	0.15
(1,1039)	1:240:A:VAL:H	1:243:A:ARG:H	2	0.15	0.03	0.15
(1,415)	1:214:A:ASN:HD21	1:273:A:ASN:HA	2	0.15	0.03	0.15
(1,82)	1:205:A:PRO:HB2	1:281:A:LYS:HG2	2	0.14	0.0	0.14
(1,82)	1:205:A:PRO:HB2	1:281:A:LYS:HG3	2	0.14	0.0	0.14
(1,82)	1:205:A:PRO:HB3	1:281:A:LYS:HG2	2	0.14	0.0	0.14
(1,82)	1:205:A:PRO:HB3	1:281:A:LYS:HG3	2	0.14	0.0	0.14
(1,453)	1:215:A:LEU:HD11	1:224:A:LEU:HG	2	0.12	0.01	0.12
(1,453)	1:215:A:LEU:HD12	1:224:A:LEU:HG	2	0.12	0.01	0.12
(1,453)	1:215:A:LEU:HD13	1:224:A:LEU:HG	2	0.12	0.01	0.12
(1,1121)	1:248:A:PHE:HD1	1:249:A:VAL:H	2	0.12	0.02	0.12
(1,1121)	1:248:A:PHE:HD2	1:249:A:VAL:H	2	0.12	0.02	0.12
(1,286)	1:211:A:PHE:HD1	1:246:A:ILE:HD11	2	0.12	0.0	0.12
(1,286)	1:211:A:PHE:HD1	1:246:A:ILE:HD12	2	0.12	0.0	0.12
(1,286)	1:211:A:PHE:HD1	1:246:A:ILE:HD13	2	0.12	0.0	0.12
(1,286)	1:211:A:PHE:HD2	1:246:A:ILE:HD11	2	0.12	0.0	0.12
(1,286)	1:211:A:PHE:HD2	1:246:A:ILE:HD12	2	0.12	0.0	0.12
(1,286)	1:211:A:PHE:HD2	1:246:A:ILE:HD13	2	0.12	0.0	0.12

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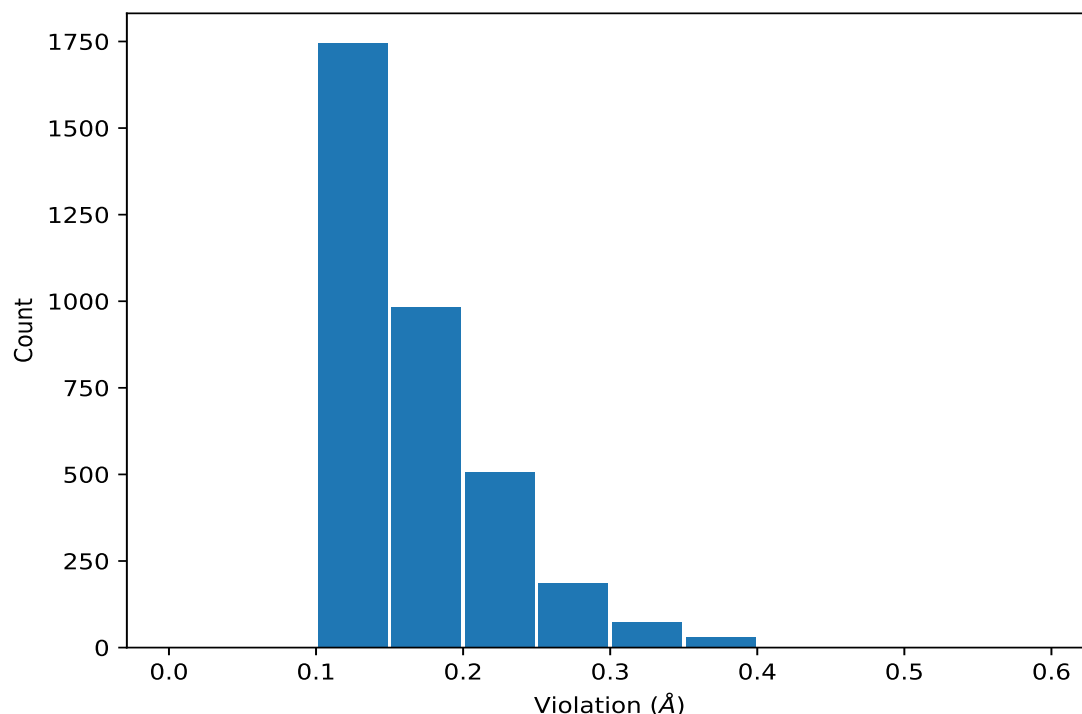
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1161)	1:251:A:PHE:HB2	1:259:A:ALA:HB1	2	0.12	0.0	0.12
(1,1161)	1:251:A:PHE:HB2	1:259:A:ALA:HB2	2	0.12	0.0	0.12
(1,1161)	1:251:A:PHE:HB2	1:259:A:ALA:HB3	2	0.12	0.0	0.12
(1,84)	1:205:A:PRO:HG2	1:281:A:LYS:HD2	2	0.11	0.01	0.11
(1,84)	1:205:A:PRO:HG2	1:281:A:LYS:HD3	2	0.11	0.01	0.11
(1,84)	1:205:A:PRO:HG3	1:281:A:LYS:HD2	2	0.11	0.01	0.11
(1,84)	1:205:A:PRO:HG3	1:281:A:LYS:HD3	2	0.11	0.01	0.11
(1,1011)	1:238:A:ARG:HD2	1:239:A:LEU:H	2	0.1	0.0	0.1
(1,1011)	1:238:A:ARG:HD3	1:239:A:LEU:H	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)
(1,30)	1:197:A:PRO:HA	1:198:A:ALA:H	2	0.56
(1,30)	1:197:A:PRO:HA	1:198:A:ALA:H	8	0.52
(1,1144)	1:250:A:GLU:HA	1:257:A:ALA:H	18	0.41
(1,1144)	1:250:A:GLU:HA	1:257:A:ALA:H	1	0.4
(1,958)	1:236:A:GLU:HB3	1:237:A:VAL:H	8	0.39
(1,534)	1:218:A:GLU:H	1:218:A:GLU:HG2	15	0.39
(1,534)	1:218:A:GLU:H	1:218:A:GLU:HG3	15	0.39
(1,316)	1:212:A:LEU:HA	1:276:A:LYS:HB3	19	0.39
(1,115)	1:207:A:ASN:HD22	1:248:A:PHE:HD1	6	0.39
(1,115)	1:207:A:ASN:HD22	1:248:A:PHE:HD2	6	0.39
(1,1144)	1:250:A:GLU:HA	1:257:A:ALA:H	3	0.38
(1,1144)	1:250:A:GLU:HA	1:257:A:ALA:H	2	0.37
(1,1144)	1:250:A:GLU:HA	1:257:A:ALA:H	11	0.37
(1,1144)	1:250:A:GLU:HA	1:257:A:ALA:H	14	0.37
(1,1144)	1:250:A:GLU:HA	1:257:A:ALA:H	16	0.37
(1,316)	1:212:A:LEU:HA	1:276:A:LYS:HB3	2	0.37
(1,316)	1:212:A:LEU:HA	1:276:A:LYS:HB3	12	0.37
(1,30)	1:197:A:PRO:HA	1:198:A:ALA:H	4	0.37
(1,1144)	1:250:A:GLU:HA	1:257:A:ALA:H	7	0.36
(1,1144)	1:250:A:GLU:HA	1:257:A:ALA:H	9	0.36
(1,316)	1:212:A:LEU:HA	1:276:A:LYS:HB3	7	0.36
(1,316)	1:212:A:LEU:HA	1:276:A:LYS:HB3	15	0.36
(1,101)	1:207:A:ASN:HB2	1:282:A:LYS:HB2	5	0.36
(1,101)	1:207:A:ASN:HB2	1:282:A:LYS:HB3	5	0.36
(1,1144)	1:250:A:GLU:HA	1:257:A:ALA:H	10	0.35
(1,1144)	1:250:A:GLU:HA	1:257:A:ALA:H	13	0.35
(1,1144)	1:250:A:GLU:HA	1:257:A:ALA:H	20	0.35
(1,329)	1:212:A:LEU:HB3	1:275:A:MET:HE1	13	0.35
(1,329)	1:212:A:LEU:HB3	1:275:A:MET:HE2	13	0.35
(1,329)	1:212:A:LEU:HB3	1:275:A:MET:HE3	13	0.35
(1,316)	1:212:A:LEU:HA	1:276:A:LYS:HB3	6	0.35
(1,316)	1:212:A:LEU:HA	1:276:A:LYS:HB3	11	0.35
(1,316)	1:212:A:LEU:HA	1:276:A:LYS:HB3	14	0.35
(1,1144)	1:250:A:GLU:HA	1:257:A:ALA:H	5	0.34
(1,1144)	1:250:A:GLU:HA	1:257:A:ALA:H	8	0.34
(1,1144)	1:250:A:GLU:HA	1:257:A:ALA:H	17	0.34
(1,685)	1:224:A:LEU:HB2	1:225:A:SER:HB2	10	0.34
(1,685)	1:224:A:LEU:HB2	1:225:A:SER:HB3	10	0.34
(1,316)	1:212:A:LEU:HA	1:276:A:LYS:HB3	13	0.34
(1,1144)	1:250:A:GLU:HA	1:257:A:ALA:H	19	0.33
(1,941)	1:235:A:LYS:HB2	1:253:A:ASN:HB3	12	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,694)	1:224:A:LEU:HG	1:249:A:VAL:HG21	12	0.33
(1,694)	1:224:A:LEU:HG	1:249:A:VAL:HG22	12	0.33
(1,694)	1:224:A:LEU:HG	1:249:A:VAL:HG23	12	0.33
(1,446)	1:215:A:LEU:HB3	1:275:A:MET:HE1	13	0.33
(1,446)	1:215:A:LEU:HB3	1:275:A:MET:HE2	13	0.33
(1,446)	1:215:A:LEU:HB3	1:275:A:MET:HE3	13	0.33
(1,418)	1:214:A:ASN:HD21	1:276:A:LYS:HG3	3	0.33
(1,418)	1:214:A:ASN:HD21	1:276:A:LYS:HG3	9	0.33
(1,399)	1:214:A:ASN:HB2	1:266:A:GLY:HA2	3	0.33
(1,316)	1:212:A:LEU:HA	1:276:A:LYS:HB3	4	0.33
(1,316)	1:212:A:LEU:HA	1:276:A:LYS:HB3	8	0.33
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB1	12	0.33
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB2	12	0.33
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB3	12	0.33
(1,1144)	1:250:A:GLU:HA	1:257:A:ALA:H	6	0.32
(1,685)	1:224:A:LEU:HB2	1:225:A:SER:HB2	11	0.32
(1,685)	1:224:A:LEU:HB2	1:225:A:SER:HB3	11	0.32
(1,316)	1:212:A:LEU:HA	1:276:A:LYS:HB3	10	0.32
(1,101)	1:207:A:ASN:HB2	1:282:A:LYS:HB2	8	0.32
(1,101)	1:207:A:ASN:HB2	1:282:A:LYS:HB3	8	0.32
(1,1144)	1:250:A:GLU:HA	1:257:A:ALA:H	4	0.31
(1,618)	1:221:A:GLU:HG2	1:239:A:LEU:H	9	0.31
(1,418)	1:214:A:ASN:HD21	1:276:A:LYS:HG3	18	0.31
(1,399)	1:214:A:ASN:HB2	1:266:A:GLY:HA2	9	0.31
(1,399)	1:214:A:ASN:HB2	1:266:A:GLY:HA2	18	0.31
(1,316)	1:212:A:LEU:HA	1:276:A:LYS:HB3	5	0.31
(1,316)	1:212:A:LEU:HA	1:276:A:LYS:HB3	20	0.31
(1,119)	1:207:A:ASN:HD22	1:282:A:LYS:HA	6	0.31
(1,897)	1:233:A:GLY:HA3	1:256:A:GLN:HG2	9	0.3
(1,418)	1:214:A:ASN:HD21	1:276:A:LYS:HG3	17	0.3
(1,399)	1:214:A:ASN:HB2	1:266:A:GLY:HA2	4	0.3
(1,399)	1:214:A:ASN:HB2	1:266:A:GLY:HA2	6	0.3
(1,399)	1:214:A:ASN:HB2	1:266:A:GLY:HA2	7	0.3
(1,399)	1:214:A:ASN:HB2	1:266:A:GLY:HA2	8	0.3
(1,399)	1:214:A:ASN:HB2	1:266:A:GLY:HA2	17	0.3
(1,399)	1:214:A:ASN:HB2	1:266:A:GLY:HA2	19	0.3
(1,382)	1:213:A:THR:HG21	1:214:A:ASN:HA	20	0.3
(1,382)	1:213:A:THR:HG22	1:214:A:ASN:HA	20	0.3
(1,382)	1:213:A:THR:HG23	1:214:A:ASN:HA	20	0.3
(1,346)	1:212:A:LEU:HD11	1:277:A:ILE:H	3	0.3
(1,346)	1:212:A:LEU:HD12	1:277:A:ILE:H	3	0.3
(1,346)	1:212:A:LEU:HD13	1:277:A:ILE:H	3	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,346)	1:212:A:LEU:HD11	1:277:A:ILE:H	18	0.3
(1,346)	1:212:A:LEU:HD12	1:277:A:ILE:H	18	0.3
(1,346)	1:212:A:LEU:HD13	1:277:A:ILE:H	18	0.3
(1,316)	1:212:A:LEU:HA	1:276:A:LYS:HB3	1	0.3
(1,316)	1:212:A:LEU:HA	1:276:A:LYS:HB3	16	0.3
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB1	1	0.3
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB2	1	0.3
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB3	1	0.3
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB1	13	0.3
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB2	13	0.3
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB3	13	0.3
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB1	15	0.3
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB2	15	0.3
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB3	15	0.3
(1,112)	1:207:A:ASN:HD22	1:209:A:ILE:HD11	6	0.3
(1,112)	1:207:A:ASN:HD22	1:209:A:ILE:HD12	6	0.3
(1,112)	1:207:A:ASN:HD22	1:209:A:ILE:HD13	6	0.3
(1,40)	1:198:A:ALA:HB1	1:199:A:GLN:HG2	17	0.3
(1,40)	1:198:A:ALA:HB1	1:199:A:GLN:HG3	17	0.3
(1,40)	1:198:A:ALA:HB2	1:199:A:GLN:HG2	17	0.3
(1,40)	1:198:A:ALA:HB2	1:199:A:GLN:HG3	17	0.3
(1,40)	1:198:A:ALA:HB3	1:199:A:GLN:HG2	17	0.3
(1,40)	1:198:A:ALA:HB3	1:199:A:GLN:HG3	17	0.3
(1,1456)	1:268:A:LYS:HD2	1:269:A:ILE:HA	20	0.29
(1,1456)	1:268:A:LYS:HD3	1:269:A:ILE:HA	20	0.29
(1,1344)	1:263:A:ALA:HB1	1:265:A:GLN:HB2	12	0.29
(1,1344)	1:263:A:ALA:HB2	1:265:A:GLN:HB2	12	0.29
(1,1344)	1:263:A:ALA:HB3	1:265:A:GLN:HB2	12	0.29
(1,897)	1:233:A:GLY:HA3	1:256:A:GLN:HG2	15	0.29
(1,897)	1:233:A:GLY:HA3	1:256:A:GLN:HG2	18	0.29
(1,399)	1:214:A:ASN:HB2	1:266:A:GLY:HA2	5	0.29
(1,346)	1:212:A:LEU:HD11	1:277:A:ILE:H	16	0.29
(1,346)	1:212:A:LEU:HD12	1:277:A:ILE:H	16	0.29
(1,346)	1:212:A:LEU:HD13	1:277:A:ILE:H	16	0.29
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB1	2	0.29
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB2	2	0.29
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB3	2	0.29
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB1	3	0.29
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB2	3	0.29
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB3	3	0.29
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB1	4	0.29
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB2	4	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB3	4	0.29
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB1	5	0.29
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB2	5	0.29
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB3	5	0.29
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB1	7	0.29
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB2	7	0.29
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB3	7	0.29
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB1	9	0.29
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB2	9	0.29
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB3	9	0.29
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB1	16	0.29
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB2	16	0.29
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB3	16	0.29
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB1	20	0.29
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB2	20	0.29
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB3	20	0.29
(1,1437)	1:267:A:PHE:HD1	1:277:A:ILE:HD11	13	0.28
(1,1437)	1:267:A:PHE:HD1	1:277:A:ILE:HD12	13	0.28
(1,1437)	1:267:A:PHE:HD1	1:277:A:ILE:HD13	13	0.28
(1,1437)	1:267:A:PHE:HD2	1:277:A:ILE:HD11	13	0.28
(1,1437)	1:267:A:PHE:HD2	1:277:A:ILE:HD12	13	0.28
(1,1437)	1:267:A:PHE:HD2	1:277:A:ILE:HD13	13	0.28
(1,958)	1:236:A:GLU:HB3	1:237:A:VAL:H	6	0.28
(1,958)	1:236:A:GLU:HB3	1:237:A:VAL:H	20	0.28
(1,897)	1:233:A:GLY:HA3	1:256:A:GLN:HG2	1	0.28
(1,897)	1:233:A:GLY:HA3	1:256:A:GLN:HG2	5	0.28
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD21	13	0.28
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD22	13	0.28
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD23	13	0.28
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD21	13	0.28
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD22	13	0.28
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD23	13	0.28
(1,399)	1:214:A:ASN:HB2	1:266:A:GLY:HA2	2	0.28
(1,399)	1:214:A:ASN:HB2	1:266:A:GLY:HA2	11	0.28
(1,399)	1:214:A:ASN:HB2	1:266:A:GLY:HA2	15	0.28
(1,346)	1:212:A:LEU:HD11	1:277:A:ILE:H	1	0.28
(1,346)	1:212:A:LEU:HD12	1:277:A:ILE:H	1	0.28
(1,346)	1:212:A:LEU:HD13	1:277:A:ILE:H	1	0.28
(1,346)	1:212:A:LEU:HD11	1:277:A:ILE:H	9	0.28
(1,346)	1:212:A:LEU:HD12	1:277:A:ILE:H	9	0.28
(1,346)	1:212:A:LEU:HD13	1:277:A:ILE:H	9	0.28
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB1	14	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB2	14	0.28
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB3	14	0.28
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB1	18	0.28
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB2	18	0.28
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB3	18	0.28
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB1	19	0.28
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB2	19	0.28
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB3	19	0.28
(1,1456)	1:268:A:LYS:HD2	1:269:A:ILE:HA	3	0.27
(1,1456)	1:268:A:LYS:HD3	1:269:A:ILE:HA	3	0.27
(1,944)	1:235:A:LYS:HB3	1:236:A:GLU:HG2	18	0.27
(1,944)	1:235:A:LYS:HB3	1:236:A:GLU:HG3	18	0.27
(1,897)	1:233:A:GLY:HA3	1:256:A:GLN:HG2	2	0.27
(1,897)	1:233:A:GLY:HA3	1:256:A:GLN:HG2	4	0.27
(1,897)	1:233:A:GLY:HA3	1:256:A:GLN:HG2	10	0.27
(1,897)	1:233:A:GLY:HA3	1:256:A:GLN:HG2	11	0.27
(1,897)	1:233:A:GLY:HA3	1:256:A:GLN:HG2	17	0.27
(1,897)	1:233:A:GLY:HA3	1:256:A:GLN:HG2	19	0.27
(1,615)	1:221:A:GLU:HG2	1:234:A:PHE:HZ	11	0.27
(1,467)	1:215:A:LEU:HD21	1:227:A:LEU:HD11	13	0.27
(1,467)	1:215:A:LEU:HD21	1:227:A:LEU:HD12	13	0.27
(1,467)	1:215:A:LEU:HD21	1:227:A:LEU:HD13	13	0.27
(1,467)	1:215:A:LEU:HD22	1:227:A:LEU:HD11	13	0.27
(1,467)	1:215:A:LEU:HD22	1:227:A:LEU:HD12	13	0.27
(1,467)	1:215:A:LEU:HD22	1:227:A:LEU:HD13	13	0.27
(1,467)	1:215:A:LEU:HD23	1:227:A:LEU:HD11	13	0.27
(1,467)	1:215:A:LEU:HD23	1:227:A:LEU:HD12	13	0.27
(1,467)	1:215:A:LEU:HD23	1:227:A:LEU:HD13	13	0.27
(1,399)	1:214:A:ASN:HB2	1:266:A:GLY:HA2	12	0.27
(1,399)	1:214:A:ASN:HB2	1:266:A:GLY:HA2	14	0.27
(1,346)	1:212:A:LEU:HD11	1:277:A:ILE:H	17	0.27
(1,346)	1:212:A:LEU:HD12	1:277:A:ILE:H	17	0.27
(1,346)	1:212:A:LEU:HD13	1:277:A:ILE:H	17	0.27
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB1	6	0.27
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB2	6	0.27
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB3	6	0.27
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB1	8	0.27
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB2	8	0.27
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB3	8	0.27
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB1	10	0.27
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB2	10	0.27
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB3	10	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB1	11	0.27
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB2	11	0.27
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB3	11	0.27
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB1	17	0.27
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB2	17	0.27
(1,214)	1:210:A:LEU:HB3	1:257:A:ALA:HB3	17	0.27
(1,115)	1:207:A:ASN:HD22	1:248:A:PHE:HD1	8	0.27
(1,115)	1:207:A:ASN:HD22	1:248:A:PHE:HD2	8	0.27
(1,109)	1:207:A:ASN:HD21	1:282:A:LYS:HG2	6	0.27
(1,109)	1:207:A:ASN:HD21	1:282:A:LYS:HG3	6	0.27
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD11	3	0.27
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD12	3	0.27
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD13	3	0.27
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD11	12	0.27
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD12	12	0.27
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD13	12	0.27
(1,72)	1:204:A:ASN:HB2	1:279:A:PHE:HD1	12	0.27
(1,72)	1:204:A:ASN:HB2	1:279:A:PHE:HD2	12	0.27
(1,72)	1:204:A:ASN:HB3	1:279:A:PHE:HD1	12	0.27
(1,72)	1:204:A:ASN:HB3	1:279:A:PHE:HD2	12	0.27
(2,52)	1:263:A:ALA:H	1:259:A:ALA:O	4	0.26
(2,44)	1:265:A:GLN:H	1:261:A:ARG:O	16	0.26
(2,44)	1:265:A:GLN:H	1:261:A:ARG:O	19	0.26
(1,1344)	1:263:A:ALA:HB1	1:265:A:GLN:HB2	9	0.26
(1,1344)	1:263:A:ALA:HB2	1:265:A:GLN:HB2	9	0.26
(1,1344)	1:263:A:ALA:HB3	1:265:A:GLN:HB2	9	0.26
(1,1344)	1:263:A:ALA:HB1	1:265:A:GLN:HB2	11	0.26
(1,1344)	1:263:A:ALA:HB2	1:265:A:GLN:HB2	11	0.26
(1,1344)	1:263:A:ALA:HB3	1:265:A:GLN:HB2	11	0.26
(1,1344)	1:263:A:ALA:HB1	1:265:A:GLN:HB2	20	0.26
(1,1344)	1:263:A:ALA:HB2	1:265:A:GLN:HB2	20	0.26
(1,1344)	1:263:A:ALA:HB3	1:265:A:GLN:HB2	20	0.26
(1,1144)	1:250:A:GLU:HA	1:257:A:ALA:H	15	0.26
(1,897)	1:233:A:GLY:HA3	1:256:A:GLN:HG2	3	0.26
(1,897)	1:233:A:GLY:HA3	1:256:A:GLN:HG2	7	0.26
(1,897)	1:233:A:GLY:HA3	1:256:A:GLN:HG2	8	0.26
(1,897)	1:233:A:GLY:HA3	1:256:A:GLN:HG2	13	0.26
(1,897)	1:233:A:GLY:HA3	1:256:A:GLN:HG2	20	0.26
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD21	17	0.26
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD22	17	0.26
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD23	17	0.26
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD21	17	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD22	17	0.26
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD23	17	0.26
(1,615)	1:221:A:GLU:HG2	1:234:A:PHE:HZ	2	0.26
(1,615)	1:221:A:GLU:HG2	1:234:A:PHE:HZ	19	0.26
(1,222)	1:210:A:LEU:HG	1:261:A:ARG:HG3	7	0.26
(1,115)	1:207:A:ASN:HD22	1:248:A:PHE:HD1	7	0.26
(1,115)	1:207:A:ASN:HD22	1:248:A:PHE:HD2	7	0.26
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD11	11	0.26
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD12	11	0.26
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD13	11	0.26
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD11	14	0.26
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD12	14	0.26
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD13	14	0.26
(1,39)	1:198:A:ALA:HB1	1:199:A:GLN:HB2	15	0.26
(1,39)	1:198:A:ALA:HB1	1:199:A:GLN:HB3	15	0.26
(1,39)	1:198:A:ALA:HB2	1:199:A:GLN:HB2	15	0.26
(1,39)	1:198:A:ALA:HB2	1:199:A:GLN:HB3	15	0.26
(1,39)	1:198:A:ALA:HB3	1:199:A:GLN:HB2	15	0.26
(1,39)	1:198:A:ALA:HB3	1:199:A:GLN:HB3	15	0.26
(2,52)	1:263:A:ALA:H	1:259:A:ALA:O	5	0.25
(2,44)	1:265:A:GLN:H	1:261:A:ARG:O	5	0.25
(2,44)	1:265:A:GLN:H	1:261:A:ARG:O	15	0.25
(1,1344)	1:263:A:ALA:HB1	1:265:A:GLN:HB2	17	0.25
(1,1344)	1:263:A:ALA:HB2	1:265:A:GLN:HB2	17	0.25
(1,1344)	1:263:A:ALA:HB3	1:265:A:GLN:HB2	17	0.25
(1,1344)	1:263:A:ALA:HB1	1:265:A:GLN:HB2	19	0.25
(1,1344)	1:263:A:ALA:HB2	1:265:A:GLN:HB2	19	0.25
(1,1344)	1:263:A:ALA:HB3	1:265:A:GLN:HB2	19	0.25
(1,897)	1:233:A:GLY:HA3	1:256:A:GLN:HG2	14	0.25
(1,897)	1:233:A:GLY:HA3	1:256:A:GLN:HG2	16	0.25
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD21	3	0.25
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD22	3	0.25
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD23	3	0.25
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD21	3	0.25
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD22	3	0.25
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD23	3	0.25
(1,580)	1:220:A:ASN:HD21	1:221:A:GLU:H	8	0.25
(1,541)	1:218:A:GLU:HA	1:219:A:THR:H	11	0.25
(1,399)	1:214:A:ASN:HB2	1:266:A:GLY:HA2	20	0.25
(1,115)	1:207:A:ASN:HD22	1:248:A:PHE:HD1	13	0.25
(1,115)	1:207:A:ASN:HD22	1:248:A:PHE:HD2	13	0.25
(1,62)	1:204:A:ASN:HD21	1:281:A:LYS:HA	10	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,52)	1:263:A:ALA:H	1:259:A:ALA:O	6	0.24
(2,52)	1:263:A:ALA:H	1:259:A:ALA:O	14	0.24
(2,52)	1:263:A:ALA:H	1:259:A:ALA:O	15	0.24
(2,44)	1:265:A:GLN:H	1:261:A:ARG:O	1	0.24
(2,44)	1:265:A:GLN:H	1:261:A:ARG:O	2	0.24
(2,44)	1:265:A:GLN:H	1:261:A:ARG:O	11	0.24
(2,44)	1:265:A:GLN:H	1:261:A:ARG:O	12	0.24
(2,44)	1:265:A:GLN:H	1:261:A:ARG:O	20	0.24
(1,1344)	1:263:A:ALA:HB1	1:265:A:GLN:HB2	1	0.24
(1,1344)	1:263:A:ALA:HB2	1:265:A:GLN:HB2	1	0.24
(1,1344)	1:263:A:ALA:HB3	1:265:A:GLN:HB2	1	0.24
(1,1344)	1:263:A:ALA:HB1	1:265:A:GLN:HB2	2	0.24
(1,1344)	1:263:A:ALA:HB2	1:265:A:GLN:HB2	2	0.24
(1,1344)	1:263:A:ALA:HB3	1:265:A:GLN:HB2	2	0.24
(1,1344)	1:263:A:ALA:HB1	1:265:A:GLN:HB2	3	0.24
(1,1344)	1:263:A:ALA:HB2	1:265:A:GLN:HB2	3	0.24
(1,1344)	1:263:A:ALA:HB3	1:265:A:GLN:HB2	3	0.24
(1,1344)	1:263:A:ALA:HB1	1:265:A:GLN:HB2	5	0.24
(1,1344)	1:263:A:ALA:HB2	1:265:A:GLN:HB2	5	0.24
(1,1344)	1:263:A:ALA:HB3	1:265:A:GLN:HB2	5	0.24
(1,1344)	1:263:A:ALA:HB1	1:265:A:GLN:HB2	6	0.24
(1,1344)	1:263:A:ALA:HB2	1:265:A:GLN:HB2	6	0.24
(1,1344)	1:263:A:ALA:HB3	1:265:A:GLN:HB2	6	0.24
(1,1344)	1:263:A:ALA:HB1	1:265:A:GLN:HB2	7	0.24
(1,1344)	1:263:A:ALA:HB2	1:265:A:GLN:HB2	7	0.24
(1,1344)	1:263:A:ALA:HB3	1:265:A:GLN:HB2	7	0.24
(1,944)	1:235:A:LYS:HB3	1:236:A:GLU:HG2	4	0.24
(1,944)	1:235:A:LYS:HB3	1:236:A:GLU:HG3	4	0.24
(1,897)	1:233:A:GLY:HA3	1:256:A:GLN:HG2	6	0.24
(1,804)	1:228:A:PHE:HZ	1:251:A:PHE:HE1	3	0.24
(1,804)	1:228:A:PHE:HZ	1:251:A:PHE:HE2	3	0.24
(1,804)	1:228:A:PHE:HZ	1:251:A:PHE:HE1	5	0.24
(1,804)	1:228:A:PHE:HZ	1:251:A:PHE:HE2	5	0.24
(1,804)	1:228:A:PHE:HZ	1:251:A:PHE:HE1	10	0.24
(1,804)	1:228:A:PHE:HZ	1:251:A:PHE:HE2	10	0.24
(1,804)	1:228:A:PHE:HZ	1:251:A:PHE:HE1	13	0.24
(1,804)	1:228:A:PHE:HZ	1:251:A:PHE:HE2	13	0.24
(1,777)	1:227:A:LEU:HD21	1:267:A:PHE:HB2	13	0.24
(1,777)	1:227:A:LEU:HD22	1:267:A:PHE:HB2	13	0.24
(1,777)	1:227:A:LEU:HD23	1:267:A:PHE:HB2	13	0.24
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD21	12	0.24
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD22	12	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD23	12	0.24
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD21	12	0.24
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD22	12	0.24
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD23	12	0.24
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD21	18	0.24
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD22	18	0.24
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD23	18	0.24
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD21	18	0.24
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD22	18	0.24
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD23	18	0.24
(1,615)	1:221:A:GLU:HG2	1:234:A:PHE:HZ	16	0.24
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG21	13	0.24
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG22	13	0.24
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG23	13	0.24
(1,222)	1:210:A:LEU:HG	1:261:A:ARG:HG3	9	0.24
(1,115)	1:207:A:ASN:HD22	1:248:A:PHE:HD1	5	0.24
(1,115)	1:207:A:ASN:HD22	1:248:A:PHE:HD2	5	0.24
(1,114)	1:207:A:ASN:HD22	1:210:A:LEU:H	13	0.24
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD11	13	0.24
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD12	13	0.24
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD13	13	0.24
(1,30)	1:197:A:PRO:HA	1:198:A:ALA:H	20	0.24
(1,16)	1:193:A:GLY:HA2	1:195:A:MET:HA	19	0.24
(1,16)	1:193:A:GLY:HA3	1:195:A:MET:HA	19	0.24
(2,54)	1:262:A:ASP:H	1:258:A:GLY:O	10	0.23
(2,52)	1:263:A:ALA:H	1:259:A:ALA:O	2	0.23
(2,52)	1:263:A:ALA:H	1:259:A:ALA:O	3	0.23
(2,52)	1:263:A:ALA:H	1:259:A:ALA:O	8	0.23
(2,52)	1:263:A:ALA:H	1:259:A:ALA:O	10	0.23
(2,52)	1:263:A:ALA:H	1:259:A:ALA:O	11	0.23
(2,44)	1:265:A:GLN:H	1:261:A:ARG:O	4	0.23
(2,44)	1:265:A:GLN:H	1:261:A:ARG:O	10	0.23
(1,1344)	1:263:A:ALA:HB1	1:265:A:GLN:HB2	4	0.23
(1,1344)	1:263:A:ALA:HB2	1:265:A:GLN:HB2	4	0.23
(1,1344)	1:263:A:ALA:HB3	1:265:A:GLN:HB2	4	0.23
(1,1344)	1:263:A:ALA:HB1	1:265:A:GLN:HB2	8	0.23
(1,1344)	1:263:A:ALA:HB2	1:265:A:GLN:HB2	8	0.23
(1,1344)	1:263:A:ALA:HB3	1:265:A:GLN:HB2	8	0.23
(1,1344)	1:263:A:ALA:HB1	1:265:A:GLN:HB2	14	0.23
(1,1344)	1:263:A:ALA:HB2	1:265:A:GLN:HB2	14	0.23
(1,1344)	1:263:A:ALA:HB3	1:265:A:GLN:HB2	14	0.23
(1,1344)	1:263:A:ALA:HB1	1:265:A:GLN:HB2	15	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1344)	1:263:A:ALA:HB2	1:265:A:GLN:HB2	15	0.23
(1,1344)	1:263:A:ALA:HB3	1:265:A:GLN:HB2	15	0.23
(1,1344)	1:263:A:ALA:HB1	1:265:A:GLN:HB2	16	0.23
(1,1344)	1:263:A:ALA:HB2	1:265:A:GLN:HB2	16	0.23
(1,1344)	1:263:A:ALA:HB3	1:265:A:GLN:HB2	16	0.23
(1,1344)	1:263:A:ALA:HB1	1:265:A:GLN:HB2	18	0.23
(1,1344)	1:263:A:ALA:HB2	1:265:A:GLN:HB2	18	0.23
(1,1344)	1:263:A:ALA:HB3	1:265:A:GLN:HB2	18	0.23
(1,1338)	1:263:A:ALA:H	1:277:A:ILE:HB	4	0.23
(1,1338)	1:263:A:ALA:H	1:277:A:ILE:HB	8	0.23
(1,1010)	1:238:A:ARG:HD3	1:248:A:PHE:HB2	1	0.23
(1,958)	1:236:A:GLU:HB3	1:237:A:VAL:H	18	0.23
(1,804)	1:228:A:PHE:HZ	1:251:A:PHE:HE1	2	0.23
(1,804)	1:228:A:PHE:HZ	1:251:A:PHE:HE2	2	0.23
(1,804)	1:228:A:PHE:HZ	1:251:A:PHE:HE1	8	0.23
(1,804)	1:228:A:PHE:HZ	1:251:A:PHE:HE2	8	0.23
(1,804)	1:228:A:PHE:HZ	1:251:A:PHE:HE1	9	0.23
(1,804)	1:228:A:PHE:HZ	1:251:A:PHE:HE2	9	0.23
(1,804)	1:228:A:PHE:HZ	1:251:A:PHE:HE1	14	0.23
(1,804)	1:228:A:PHE:HZ	1:251:A:PHE:HE2	14	0.23
(1,804)	1:228:A:PHE:HZ	1:251:A:PHE:HE1	15	0.23
(1,804)	1:228:A:PHE:HZ	1:251:A:PHE:HE2	15	0.23
(1,804)	1:228:A:PHE:HZ	1:251:A:PHE:HE1	20	0.23
(1,804)	1:228:A:PHE:HZ	1:251:A:PHE:HE2	20	0.23
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD21	6	0.23
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD22	6	0.23
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD23	6	0.23
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD21	6	0.23
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD22	6	0.23
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD23	6	0.23
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD21	7	0.23
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD22	7	0.23
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD23	7	0.23
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD21	7	0.23
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD22	7	0.23
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD23	7	0.23
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD21	8	0.23
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD22	8	0.23
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD23	8	0.23
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD21	8	0.23
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD22	8	0.23
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD23	8	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD21	10	0.23
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD22	10	0.23
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD23	10	0.23
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD21	10	0.23
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD22	10	0.23
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD23	10	0.23
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD21	11	0.23
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD22	11	0.23
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD23	11	0.23
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD21	11	0.23
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD22	11	0.23
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD23	11	0.23
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD21	14	0.23
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD22	14	0.23
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD23	14	0.23
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD21	14	0.23
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD22	14	0.23
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD23	14	0.23
(1,615)	1:221:A:GLU:HG2	1:234:A:PHE:HZ	9	0.23
(1,580)	1:220:A:ASN:HD21	1:221:A:GLU:H	7	0.23
(1,580)	1:220:A:ASN:HD21	1:221:A:GLU:H	12	0.23
(1,580)	1:220:A:ASN:HD21	1:221:A:GLU:H	17	0.23
(1,580)	1:220:A:ASN:HD21	1:221:A:GLU:H	19	0.23
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG21	11	0.23
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG22	11	0.23
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG23	11	0.23
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG21	16	0.23
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG22	16	0.23
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG23	16	0.23
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG21	16	0.23
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG22	16	0.23
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG23	16	0.23
(1,222)	1:210:A:LEU:HG	1:261:A:ARG:HG3	15	0.23
(1,115)	1:207:A:ASN:HD22	1:248:A:PHE:HD1	10	0.23
(1,115)	1:207:A:ASN:HD22	1:248:A:PHE:HD2	10	0.23
(1,115)	1:207:A:ASN:HD22	1:248:A:PHE:HD1	12	0.23
(1,115)	1:207:A:ASN:HD22	1:248:A:PHE:HD2	12	0.23
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD11	10	0.23
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD12	10	0.23
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD13	10	0.23
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD11	16	0.23
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD12	16	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD13	16	0.23
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD11	17	0.23
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD12	17	0.23
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD13	17	0.23
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD11	18	0.23
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD12	18	0.23
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD13	18	0.23
(1,40)	1:198:A:ALA:HB1	1:199:A:GLN:HG2	12	0.23
(1,40)	1:198:A:ALA:HB1	1:199:A:GLN:HG3	12	0.23
(1,40)	1:198:A:ALA:HB2	1:199:A:GLN:HG2	12	0.23
(1,40)	1:198:A:ALA:HB2	1:199:A:GLN:HG3	12	0.23
(1,40)	1:198:A:ALA:HB3	1:199:A:GLN:HG2	12	0.23
(1,40)	1:198:A:ALA:HB3	1:199:A:GLN:HG3	12	0.23
(2,52)	1:263:A:ALA:H	1:259:A:ALA:O	7	0.22
(2,52)	1:263:A:ALA:H	1:259:A:ALA:O	12	0.22
(2,52)	1:263:A:ALA:H	1:259:A:ALA:O	16	0.22
(2,52)	1:263:A:ALA:H	1:259:A:ALA:O	17	0.22
(2,44)	1:265:A:GLN:H	1:261:A:ARG:O	6	0.22
(2,44)	1:265:A:GLN:H	1:261:A:ARG:O	9	0.22
(2,44)	1:265:A:GLN:H	1:261:A:ARG:O	17	0.22
(2,44)	1:265:A:GLN:H	1:261:A:ARG:O	18	0.22
(1,1344)	1:263:A:ALA:HB1	1:265:A:GLN:HB2	10	0.22
(1,1344)	1:263:A:ALA:HB2	1:265:A:GLN:HB2	10	0.22
(1,1344)	1:263:A:ALA:HB3	1:265:A:GLN:HB2	10	0.22
(1,1338)	1:263:A:ALA:H	1:277:A:ILE:HB	3	0.22
(1,1338)	1:263:A:ALA:H	1:277:A:ILE:HB	6	0.22
(1,1338)	1:263:A:ALA:H	1:277:A:ILE:HB	7	0.22
(1,1338)	1:263:A:ALA:H	1:277:A:ILE:HB	20	0.22
(1,1196)	1:253:A:ASN:H	1:256:A:GLN:HA	12	0.22
(1,1010)	1:238:A:ARG:HD3	1:248:A:PHE:HB2	17	0.22
(1,958)	1:236:A:GLU:HB3	1:237:A:VAL:H	4	0.22
(1,958)	1:236:A:GLU:HB3	1:237:A:VAL:H	15	0.22
(1,958)	1:236:A:GLU:HB3	1:237:A:VAL:H	17	0.22
(1,944)	1:235:A:LYS:HB3	1:236:A:GLU:HG2	14	0.22
(1,944)	1:235:A:LYS:HB3	1:236:A:GLU:HG3	14	0.22
(1,944)	1:235:A:LYS:HB3	1:236:A:GLU:HG2	15	0.22
(1,944)	1:235:A:LYS:HB3	1:236:A:GLU:HG3	15	0.22
(1,899)	1:234:A:PHE:H	1:234:A:PHE:HD1	1	0.22
(1,899)	1:234:A:PHE:H	1:234:A:PHE:HD2	1	0.22
(1,899)	1:234:A:PHE:H	1:234:A:PHE:HD1	5	0.22
(1,899)	1:234:A:PHE:H	1:234:A:PHE:HD2	5	0.22
(1,899)	1:234:A:PHE:H	1:234:A:PHE:HD1	10	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,899)	1:234:A:PHE:H	1:234:A:PHE:HD2	10	0.22
(1,899)	1:234:A:PHE:H	1:234:A:PHE:HD1	11	0.22
(1,899)	1:234:A:PHE:H	1:234:A:PHE:HD2	11	0.22
(1,899)	1:234:A:PHE:H	1:234:A:PHE:HD1	16	0.22
(1,899)	1:234:A:PHE:H	1:234:A:PHE:HD2	16	0.22
(1,899)	1:234:A:PHE:H	1:234:A:PHE:HD1	19	0.22
(1,899)	1:234:A:PHE:H	1:234:A:PHE:HD2	19	0.22
(1,880)	1:232:A:PRO:HA	1:233:A:GLY:H	6	0.22
(1,804)	1:228:A:PHE:HZ	1:251:A:PHE:HE1	4	0.22
(1,804)	1:228:A:PHE:HZ	1:251:A:PHE:HE2	4	0.22
(1,804)	1:228:A:PHE:HZ	1:251:A:PHE:HE1	6	0.22
(1,804)	1:228:A:PHE:HZ	1:251:A:PHE:HE2	6	0.22
(1,804)	1:228:A:PHE:HZ	1:251:A:PHE:HE1	16	0.22
(1,804)	1:228:A:PHE:HZ	1:251:A:PHE:HE2	16	0.22
(1,804)	1:228:A:PHE:HZ	1:251:A:PHE:HE1	18	0.22
(1,804)	1:228:A:PHE:HZ	1:251:A:PHE:HE2	18	0.22
(1,717)	1:225:A:SER:HB2	1:237:A:VAL:H	10	0.22
(1,717)	1:225:A:SER:HB3	1:237:A:VAL:H	10	0.22
(1,615)	1:221:A:GLU:HG2	1:234:A:PHE:HZ	8	0.22
(1,615)	1:221:A:GLU:HG2	1:234:A:PHE:HZ	20	0.22
(1,580)	1:220:A:ASN:HD21	1:221:A:GLU:H	2	0.22
(1,580)	1:220:A:ASN:HD21	1:221:A:GLU:H	20	0.22
(1,489)	1:216:A:PRO:HB2	1:269:A:ILE:HD11	13	0.22
(1,489)	1:216:A:PRO:HB2	1:269:A:ILE:HD12	13	0.22
(1,489)	1:216:A:PRO:HB2	1:269:A:ILE:HD13	13	0.22
(1,399)	1:214:A:ASN:HB2	1:266:A:GLY:HA2	1	0.22
(1,399)	1:214:A:ASN:HB2	1:266:A:GLY:HA2	16	0.22
(1,388)	1:213:A:THR:HG21	1:276:A:LYS:HD2	16	0.22
(1,388)	1:213:A:THR:HG21	1:276:A:LYS:HD3	16	0.22
(1,388)	1:213:A:THR:HG22	1:276:A:LYS:HD2	16	0.22
(1,388)	1:213:A:THR:HG22	1:276:A:LYS:HD3	16	0.22
(1,388)	1:213:A:THR:HG23	1:276:A:LYS:HD2	16	0.22
(1,388)	1:213:A:THR:HG23	1:276:A:LYS:HD3	16	0.22
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG21	1	0.22
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG22	1	0.22
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG23	1	0.22
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG21	1	0.22
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG22	1	0.22
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG23	1	0.22
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG21	10	0.22
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG22	10	0.22
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG23	10	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG21	10	0.22
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG22	10	0.22
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG23	10	0.22
(1,222)	1:210:A:LEU:HG	1:261:A:ARG:HG3	2	0.22
(1,222)	1:210:A:LEU:HG	1:261:A:ARG:HG3	5	0.22
(1,157)	1:209:A:ILE:HG12	1:238:A:ARG:HB2	7	0.22
(1,115)	1:207:A:ASN:HD22	1:248:A:PHE:HD1	2	0.22
(1,115)	1:207:A:ASN:HD22	1:248:A:PHE:HD2	2	0.22
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD11	1	0.22
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD12	1	0.22
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD13	1	0.22
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD11	4	0.22
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD12	4	0.22
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD13	4	0.22
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD11	19	0.22
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD12	19	0.22
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD13	19	0.22
(1,16)	1:193:A:GLY:HA2	1:195:A:MET:HA	14	0.22
(1,16)	1:193:A:GLY:HA3	1:195:A:MET:HA	14	0.22
(2,54)	1:262:A:ASP:H	1:258:A:GLY:O	1	0.21
(2,54)	1:262:A:ASP:H	1:258:A:GLY:O	15	0.21
(2,54)	1:262:A:ASP:H	1:258:A:GLY:O	16	0.21
(2,53)	1:262:A:ASP:N	1:258:A:GLY:O	10	0.21
(2,52)	1:263:A:ALA:H	1:259:A:ALA:O	1	0.21
(2,52)	1:263:A:ALA:H	1:259:A:ALA:O	9	0.21
(2,52)	1:263:A:ALA:H	1:259:A:ALA:O	19	0.21
(2,52)	1:263:A:ALA:H	1:259:A:ALA:O	20	0.21
(2,48)	1:264:A:LEU:H	1:261:A:ARG:O	4	0.21
(2,48)	1:264:A:LEU:H	1:261:A:ARG:O	10	0.21
(2,44)	1:265:A:GLN:H	1:261:A:ARG:O	3	0.21
(2,44)	1:265:A:GLN:H	1:261:A:ARG:O	8	0.21
(1,1519)	1:274:A:ALA:HA	1:276:A:LYS:HD2	4	0.21
(1,1519)	1:274:A:ALA:HA	1:276:A:LYS:HD3	4	0.21
(1,1519)	1:274:A:ALA:HA	1:276:A:LYS:HD2	8	0.21
(1,1519)	1:274:A:ALA:HA	1:276:A:LYS:HD3	8	0.21
(1,1503)	1:272:A:ASN:H	1:273:A:ASN:HD21	12	0.21
(1,1503)	1:272:A:ASN:H	1:273:A:ASN:HD22	12	0.21
(1,1369)	1:265:A:GLN:H	1:265:A:GLN:HE21	12	0.21
(1,1369)	1:265:A:GLN:H	1:265:A:GLN:HE21	13	0.21
(1,1338)	1:263:A:ALA:H	1:277:A:ILE:HB	2	0.21
(1,1338)	1:263:A:ALA:H	1:277:A:ILE:HB	5	0.21
(1,1338)	1:263:A:ALA:H	1:277:A:ILE:HB	9	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1338)	1:263:A:ALA:H	1:277:A:ILE:HB	13	0.21
(1,1338)	1:263:A:ALA:H	1:277:A:ILE:HB	14	0.21
(1,1227)	1:255:A:VAL:HG11	1:257:A:ALA:H	1	0.21
(1,1227)	1:255:A:VAL:HG12	1:257:A:ALA:H	1	0.21
(1,1227)	1:255:A:VAL:HG13	1:257:A:ALA:H	1	0.21
(1,1175)	1:251:A:PHE:HD1	1:259:A:ALA:H	2	0.21
(1,1175)	1:251:A:PHE:HD2	1:259:A:ALA:H	2	0.21
(1,958)	1:236:A:GLU:HB3	1:237:A:VAL:H	19	0.21
(1,899)	1:234:A:PHE:H	1:234:A:PHE:HD1	3	0.21
(1,899)	1:234:A:PHE:H	1:234:A:PHE:HD2	3	0.21
(1,899)	1:234:A:PHE:H	1:234:A:PHE:HD1	7	0.21
(1,899)	1:234:A:PHE:H	1:234:A:PHE:HD2	7	0.21
(1,899)	1:234:A:PHE:H	1:234:A:PHE:HD1	8	0.21
(1,899)	1:234:A:PHE:H	1:234:A:PHE:HD2	8	0.21
(1,899)	1:234:A:PHE:H	1:234:A:PHE:HD1	9	0.21
(1,899)	1:234:A:PHE:H	1:234:A:PHE:HD2	9	0.21
(1,899)	1:234:A:PHE:H	1:234:A:PHE:HD1	14	0.21
(1,899)	1:234:A:PHE:H	1:234:A:PHE:HD2	14	0.21
(1,899)	1:234:A:PHE:H	1:234:A:PHE:HD1	15	0.21
(1,899)	1:234:A:PHE:H	1:234:A:PHE:HD2	15	0.21
(1,899)	1:234:A:PHE:H	1:234:A:PHE:HD1	17	0.21
(1,899)	1:234:A:PHE:H	1:234:A:PHE:HD2	17	0.21
(1,899)	1:234:A:PHE:H	1:234:A:PHE:HD1	18	0.21
(1,899)	1:234:A:PHE:H	1:234:A:PHE:HD2	18	0.21
(1,899)	1:234:A:PHE:H	1:234:A:PHE:HD1	20	0.21
(1,899)	1:234:A:PHE:H	1:234:A:PHE:HD2	20	0.21
(1,880)	1:232:A:PRO:HA	1:233:A:GLY:H	2	0.21
(1,880)	1:232:A:PRO:HA	1:233:A:GLY:H	8	0.21
(1,880)	1:232:A:PRO:HA	1:233:A:GLY:H	12	0.21
(1,804)	1:228:A:PHE:HZ	1:251:A:PHE:HE1	1	0.21
(1,804)	1:228:A:PHE:HZ	1:251:A:PHE:HE2	1	0.21
(1,804)	1:228:A:PHE:HZ	1:251:A:PHE:HE1	11	0.21
(1,804)	1:228:A:PHE:HZ	1:251:A:PHE:HE2	11	0.21
(1,804)	1:228:A:PHE:HZ	1:251:A:PHE:HE1	17	0.21
(1,804)	1:228:A:PHE:HZ	1:251:A:PHE:HE2	17	0.21
(1,804)	1:228:A:PHE:HZ	1:251:A:PHE:HE1	19	0.21
(1,804)	1:228:A:PHE:HZ	1:251:A:PHE:HE2	19	0.21
(1,754)	1:227:A:LEU:HB2	1:228:A:PHE:H	13	0.21
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD21	4	0.21
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD22	4	0.21
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD23	4	0.21
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD21	4	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD22	4	0.21
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD23	4	0.21
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD21	9	0.21
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD22	9	0.21
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD23	9	0.21
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD21	9	0.21
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD22	9	0.21
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD23	9	0.21
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD21	19	0.21
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD22	19	0.21
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD23	19	0.21
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD21	19	0.21
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD22	19	0.21
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD23	19	0.21
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD21	20	0.21
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD22	20	0.21
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD23	20	0.21
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD21	20	0.21
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD22	20	0.21
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD23	20	0.21
(1,717)	1:225:A:SER:HB2	1:237:A:VAL:H	11	0.21
(1,717)	1:225:A:SER:HB3	1:237:A:VAL:H	11	0.21
(1,580)	1:220:A:ASN:HD21	1:221:A:GLU:H	1	0.21
(1,580)	1:220:A:ASN:HD21	1:221:A:GLU:H	3	0.21
(1,580)	1:220:A:ASN:HD21	1:221:A:GLU:H	4	0.21
(1,580)	1:220:A:ASN:HD21	1:221:A:GLU:H	6	0.21
(1,580)	1:220:A:ASN:HD21	1:221:A:GLU:H	14	0.21
(1,580)	1:220:A:ASN:HD21	1:221:A:GLU:H	16	0.21
(1,541)	1:218:A:GLU:HA	1:219:A:THR:H	15	0.21
(1,541)	1:218:A:GLU:HA	1:219:A:THR:H	17	0.21
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG21	10	0.21
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG22	10	0.21
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG23	10	0.21
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG21	16	0.21
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG22	16	0.21
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG23	16	0.21
(1,387)	1:213:A:THR:HG21	1:276:A:LYS:H	20	0.21
(1,387)	1:213:A:THR:HG22	1:276:A:LYS:H	20	0.21
(1,387)	1:213:A:THR:HG23	1:276:A:LYS:H	20	0.21
(1,222)	1:210:A:LEU:HG	1:261:A:ARG:HG3	3	0.21
(1,222)	1:210:A:LEU:HG	1:261:A:ARG:HG3	4	0.21
(1,222)	1:210:A:LEU:HG	1:261:A:ARG:HG3	12	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,115)	1:207:A:ASN:HD22	1:248:A:PHE:HD1	3	0.21
(1,115)	1:207:A:ASN:HD22	1:248:A:PHE:HD2	3	0.21
(1,115)	1:207:A:ASN:HD22	1:248:A:PHE:HD1	9	0.21
(1,115)	1:207:A:ASN:HD22	1:248:A:PHE:HD2	9	0.21
(1,115)	1:207:A:ASN:HD22	1:248:A:PHE:HD1	14	0.21
(1,115)	1:207:A:ASN:HD22	1:248:A:PHE:HD2	14	0.21
(1,115)	1:207:A:ASN:HD22	1:248:A:PHE:HD1	17	0.21
(1,115)	1:207:A:ASN:HD22	1:248:A:PHE:HD2	17	0.21
(1,115)	1:207:A:ASN:HD22	1:248:A:PHE:HD1	19	0.21
(1,115)	1:207:A:ASN:HD22	1:248:A:PHE:HD2	19	0.21
(1,109)	1:207:A:ASN:HD21	1:282:A:LYS:HG2	17	0.21
(1,109)	1:207:A:ASN:HD21	1:282:A:LYS:HG3	17	0.21
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD11	7	0.21
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD12	7	0.21
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD13	7	0.21
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD11	20	0.21
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD12	20	0.21
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD13	20	0.21
(2,54)	1:262:A:ASP:H	1:258:A:GLY:O	4	0.2
(2,54)	1:262:A:ASP:H	1:258:A:GLY:O	5	0.2
(2,54)	1:262:A:ASP:H	1:258:A:GLY:O	6	0.2
(2,54)	1:262:A:ASP:H	1:258:A:GLY:O	11	0.2
(2,54)	1:262:A:ASP:H	1:258:A:GLY:O	18	0.2
(2,54)	1:262:A:ASP:H	1:258:A:GLY:O	20	0.2
(2,52)	1:263:A:ALA:H	1:259:A:ALA:O	18	0.2
(2,48)	1:264:A:LEU:H	1:261:A:ARG:O	2	0.2
(2,48)	1:264:A:LEU:H	1:261:A:ARG:O	5	0.2
(2,48)	1:264:A:LEU:H	1:261:A:ARG:O	15	0.2
(2,44)	1:265:A:GLN:H	1:261:A:ARG:O	7	0.2
(2,44)	1:265:A:GLN:H	1:261:A:ARG:O	14	0.2
(2,32)	1:224:A:LEU:O	1:228:A:PHE:H	18	0.2
(1,1582)	1:281:A:LYS:HA	1:281:A:LYS:HD2	1	0.2
(1,1582)	1:281:A:LYS:HA	1:281:A:LYS:HD3	1	0.2
(1,1519)	1:274:A:ALA:HA	1:276:A:LYS:HD2	5	0.2
(1,1519)	1:274:A:ALA:HA	1:276:A:LYS:HD3	5	0.2
(1,1498)	1:271:A:GLN:HB2	1:273:A:ASN:H	3	0.2
(1,1498)	1:271:A:GLN:HB3	1:273:A:ASN:H	3	0.2
(1,1498)	1:271:A:GLN:HB2	1:273:A:ASN:H	7	0.2
(1,1498)	1:271:A:GLN:HB3	1:273:A:ASN:H	7	0.2
(1,1338)	1:263:A:ALA:H	1:277:A:ILE:HB	10	0.2
(1,1338)	1:263:A:ALA:H	1:277:A:ILE:HB	11	0.2
(1,1338)	1:263:A:ALA:H	1:277:A:ILE:HB	15	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1338)	1:263:A:ALA:H	1:277:A:ILE:HB	19	0.2
(1,1175)	1:251:A:PHE:HD1	1:259:A:ALA:H	4	0.2
(1,1175)	1:251:A:PHE:HD2	1:259:A:ALA:H	4	0.2
(1,1175)	1:251:A:PHE:HD1	1:259:A:ALA:H	8	0.2
(1,1175)	1:251:A:PHE:HD2	1:259:A:ALA:H	8	0.2
(1,1175)	1:251:A:PHE:HD1	1:259:A:ALA:H	15	0.2
(1,1175)	1:251:A:PHE:HD2	1:259:A:ALA:H	15	0.2
(1,1083)	1:245:A:ASP:HA	1:273:A:ASN:HB3	7	0.2
(1,1083)	1:245:A:ASP:HA	1:273:A:ASN:HB3	11	0.2
(1,899)	1:234:A:PHE:H	1:234:A:PHE:HD1	2	0.2
(1,899)	1:234:A:PHE:H	1:234:A:PHE:HD2	2	0.2
(1,899)	1:234:A:PHE:H	1:234:A:PHE:HD1	4	0.2
(1,899)	1:234:A:PHE:H	1:234:A:PHE:HD2	4	0.2
(1,885)	1:233:A:GLY:H	1:234:A:PHE:H	12	0.2
(1,880)	1:232:A:PRO:HA	1:233:A:GLY:H	3	0.2
(1,880)	1:232:A:PRO:HA	1:233:A:GLY:H	4	0.2
(1,811)	1:228:A:PHE:HD1	1:249:A:VAL:HB	7	0.2
(1,811)	1:228:A:PHE:HD2	1:249:A:VAL:HB	7	0.2
(1,811)	1:228:A:PHE:HD1	1:249:A:VAL:HB	8	0.2
(1,811)	1:228:A:PHE:HD2	1:249:A:VAL:HB	8	0.2
(1,811)	1:228:A:PHE:HD1	1:249:A:VAL:HB	11	0.2
(1,811)	1:228:A:PHE:HD2	1:249:A:VAL:HB	11	0.2
(1,754)	1:227:A:LEU:HB2	1:228:A:PHE:H	12	0.2
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD21	1	0.2
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD22	1	0.2
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD23	1	0.2
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD21	1	0.2
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD22	1	0.2
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD23	1	0.2
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD21	2	0.2
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD22	2	0.2
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD23	2	0.2
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD21	2	0.2
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD22	2	0.2
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD23	2	0.2
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD21	5	0.2
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD22	5	0.2
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD23	5	0.2
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD21	5	0.2
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD22	5	0.2
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD23	5	0.2
(1,615)	1:221:A:GLU:HG2	1:234:A:PHE:HZ	7	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,586)	1:220:A:ASN:HD21	1:224:A:LEU:H	10	0.2
(1,580)	1:220:A:ASN:HD21	1:221:A:GLU:H	5	0.2
(1,580)	1:220:A:ASN:HD21	1:221:A:GLU:H	9	0.2
(1,580)	1:220:A:ASN:HD21	1:221:A:GLU:H	11	0.2
(1,580)	1:220:A:ASN:HD21	1:221:A:GLU:H	15	0.2
(1,541)	1:218:A:GLU:HA	1:219:A:THR:H	10	0.2
(1,541)	1:218:A:GLU:HA	1:219:A:THR:H	12	0.2
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG21	3	0.2
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG22	3	0.2
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG23	3	0.2
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG21	6	0.2
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG22	6	0.2
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG23	6	0.2
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG21	8	0.2
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG22	8	0.2
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG23	8	0.2
(1,470)	1:215:A:LEU:HD21	1:267:A:PHE:H	13	0.2
(1,470)	1:215:A:LEU:HD22	1:267:A:PHE:H	13	0.2
(1,470)	1:215:A:LEU:HD23	1:267:A:PHE:H	13	0.2
(1,388)	1:213:A:THR:HG21	1:276:A:LYS:HD2	1	0.2
(1,388)	1:213:A:THR:HG21	1:276:A:LYS:HD3	1	0.2
(1,388)	1:213:A:THR:HG22	1:276:A:LYS:HD2	1	0.2
(1,388)	1:213:A:THR:HG22	1:276:A:LYS:HD3	1	0.2
(1,388)	1:213:A:THR:HG23	1:276:A:LYS:HD2	1	0.2
(1,388)	1:213:A:THR:HG23	1:276:A:LYS:HD3	1	0.2
(1,346)	1:212:A:LEU:HD11	1:277:A:ILE:H	2	0.2
(1,346)	1:212:A:LEU:HD12	1:277:A:ILE:H	2	0.2
(1,346)	1:212:A:LEU:HD13	1:277:A:ILE:H	2	0.2
(1,346)	1:212:A:LEU:HD11	1:277:A:ILE:H	11	0.2
(1,346)	1:212:A:LEU:HD12	1:277:A:ILE:H	11	0.2
(1,346)	1:212:A:LEU:HD13	1:277:A:ILE:H	11	0.2
(1,316)	1:212:A:LEU:HA	1:276:A:LYS:HB3	17	0.2
(1,222)	1:210:A:LEU:HG	1:261:A:ARG:HG3	8	0.2
(1,222)	1:210:A:LEU:HG	1:261:A:ARG:HG3	11	0.2
(1,222)	1:210:A:LEU:HG	1:261:A:ARG:HG3	17	0.2
(1,222)	1:210:A:LEU:HG	1:261:A:ARG:HG3	20	0.2
(1,157)	1:209:A:ILE:HG12	1:238:A:ARG:HB2	20	0.2
(1,123)	1:208:A:HIS:HA	1:257:A:ALA:H	6	0.2
(1,123)	1:208:A:HIS:HA	1:257:A:ALA:H	11	0.2
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD11	15	0.2
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD12	15	0.2
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD13	15	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,16)	1:193:A:GLY:HA2	1:195:A:MET:HA	18	0.2
(1,16)	1:193:A:GLY:HA3	1:195:A:MET:HA	18	0.2
(2,54)	1:262:A:ASP:H	1:258:A:GLY:O	8	0.19
(2,54)	1:262:A:ASP:H	1:258:A:GLY:O	14	0.19
(2,54)	1:262:A:ASP:H	1:258:A:GLY:O	17	0.19
(2,54)	1:262:A:ASP:H	1:258:A:GLY:O	19	0.19
(2,53)	1:262:A:ASP:N	1:258:A:GLY:O	16	0.19
(2,52)	1:263:A:ALA:H	1:259:A:ALA:O	13	0.19
(2,48)	1:264:A:LEU:H	1:261:A:ARG:O	16	0.19
(2,48)	1:264:A:LEU:H	1:261:A:ARG:O	19	0.19
(2,32)	1:224:A:LEU:O	1:228:A:PHE:H	8	0.19
(2,32)	1:224:A:LEU:O	1:228:A:PHE:H	19	0.19
(1,1519)	1:274:A:ALA:HA	1:276:A:LYS:HD2	6	0.19
(1,1519)	1:274:A:ALA:HA	1:276:A:LYS:HD3	6	0.19
(1,1519)	1:274:A:ALA:HA	1:276:A:LYS:HD2	10	0.19
(1,1519)	1:274:A:ALA:HA	1:276:A:LYS:HD3	10	0.19
(1,1519)	1:274:A:ALA:HA	1:276:A:LYS:HD2	12	0.19
(1,1519)	1:274:A:ALA:HA	1:276:A:LYS:HD3	12	0.19
(1,1519)	1:274:A:ALA:HA	1:276:A:LYS:HD2	20	0.19
(1,1519)	1:274:A:ALA:HA	1:276:A:LYS:HD3	20	0.19
(1,1498)	1:271:A:GLN:HB2	1:273:A:ASN:H	12	0.19
(1,1498)	1:271:A:GLN:HB3	1:273:A:ASN:H	12	0.19
(1,1369)	1:265:A:GLN:H	1:265:A:GLN:HE21	9	0.19
(1,1227)	1:255:A:VAL:HG11	1:257:A:ALA:H	18	0.19
(1,1227)	1:255:A:VAL:HG12	1:257:A:ALA:H	18	0.19
(1,1227)	1:255:A:VAL:HG13	1:257:A:ALA:H	18	0.19
(1,1175)	1:251:A:PHE:HD1	1:259:A:ALA:H	7	0.19
(1,1175)	1:251:A:PHE:HD2	1:259:A:ALA:H	7	0.19
(1,1175)	1:251:A:PHE:HD1	1:259:A:ALA:H	9	0.19
(1,1175)	1:251:A:PHE:HD2	1:259:A:ALA:H	9	0.19
(1,1138)	1:249:A:VAL:HG21	1:269:A:ILE:HD11	12	0.19
(1,1138)	1:249:A:VAL:HG21	1:269:A:ILE:HD12	12	0.19
(1,1138)	1:249:A:VAL:HG21	1:269:A:ILE:HD13	12	0.19
(1,1138)	1:249:A:VAL:HG22	1:269:A:ILE:HD11	12	0.19
(1,1138)	1:249:A:VAL:HG22	1:269:A:ILE:HD12	12	0.19
(1,1138)	1:249:A:VAL:HG22	1:269:A:ILE:HD13	12	0.19
(1,1138)	1:249:A:VAL:HG23	1:269:A:ILE:HD11	12	0.19
(1,1138)	1:249:A:VAL:HG23	1:269:A:ILE:HD12	12	0.19
(1,1138)	1:249:A:VAL:HG23	1:269:A:ILE:HD13	12	0.19
(1,1083)	1:245:A:ASP:HA	1:273:A:ASN:HB3	2	0.19
(1,1083)	1:245:A:ASP:HA	1:273:A:ASN:HB3	4	0.19
(1,1083)	1:245:A:ASP:HA	1:273:A:ASN:HB3	5	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1083)	1:245:A:ASP:HA	1:273:A:ASN:HB3	20	0.19
(1,1013)	1:238:A:ARG:HG2	1:239:A:LEU:HA	13	0.19
(1,1013)	1:238:A:ARG:HG3	1:239:A:LEU:HA	13	0.19
(1,1008)	1:238:A:ARG:HD2	1:248:A:PHE:HB2	4	0.19
(1,958)	1:236:A:GLU:HB3	1:237:A:VAL:H	2	0.19
(1,958)	1:236:A:GLU:HB3	1:237:A:VAL:H	14	0.19
(1,947)	1:235:A:LYS:HG3	1:253:A:ASN:HB3	13	0.19
(1,944)	1:235:A:LYS:HB3	1:236:A:GLU:HG2	17	0.19
(1,944)	1:235:A:LYS:HB3	1:236:A:GLU:HG3	17	0.19
(1,899)	1:234:A:PHE:H	1:234:A:PHE:HD1	6	0.19
(1,899)	1:234:A:PHE:H	1:234:A:PHE:HD2	6	0.19
(1,899)	1:234:A:PHE:H	1:234:A:PHE:HD1	13	0.19
(1,899)	1:234:A:PHE:H	1:234:A:PHE:HD2	13	0.19
(1,880)	1:232:A:PRO:HA	1:233:A:GLY:H	5	0.19
(1,880)	1:232:A:PRO:HA	1:233:A:GLY:H	14	0.19
(1,811)	1:228:A:PHE:HD1	1:249:A:VAL:HB	1	0.19
(1,811)	1:228:A:PHE:HD2	1:249:A:VAL:HB	1	0.19
(1,811)	1:228:A:PHE:HD1	1:249:A:VAL:HB	15	0.19
(1,811)	1:228:A:PHE:HD2	1:249:A:VAL:HB	15	0.19
(1,811)	1:228:A:PHE:HD1	1:249:A:VAL:HB	17	0.19
(1,811)	1:228:A:PHE:HD2	1:249:A:VAL:HB	17	0.19
(1,811)	1:228:A:PHE:HD1	1:249:A:VAL:HB	18	0.19
(1,811)	1:228:A:PHE:HD2	1:249:A:VAL:HB	18	0.19
(1,811)	1:228:A:PHE:HD1	1:249:A:VAL:HB	20	0.19
(1,811)	1:228:A:PHE:HD2	1:249:A:VAL:HB	20	0.19
(1,804)	1:228:A:PHE:HZ	1:251:A:PHE:HE1	7	0.19
(1,804)	1:228:A:PHE:HZ	1:251:A:PHE:HE2	7	0.19
(1,754)	1:227:A:LEU:HB2	1:228:A:PHE:H	3	0.19
(1,754)	1:227:A:LEU:HB2	1:228:A:PHE:H	5	0.19
(1,754)	1:227:A:LEU:HB2	1:228:A:PHE:H	6	0.19
(1,754)	1:227:A:LEU:HB2	1:228:A:PHE:H	7	0.19
(1,754)	1:227:A:LEU:HB2	1:228:A:PHE:H	9	0.19
(1,754)	1:227:A:LEU:HB2	1:228:A:PHE:H	10	0.19
(1,754)	1:227:A:LEU:HB2	1:228:A:PHE:H	14	0.19
(1,754)	1:227:A:LEU:HB2	1:228:A:PHE:H	17	0.19
(1,754)	1:227:A:LEU:HB2	1:228:A:PHE:H	18	0.19
(1,754)	1:227:A:LEU:HB2	1:228:A:PHE:H	19	0.19
(1,754)	1:227:A:LEU:HB2	1:228:A:PHE:H	20	0.19
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD21	15	0.19
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD22	15	0.19
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD23	15	0.19
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD21	15	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD22	15	0.19
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD23	15	0.19
(1,617)	1:221:A:GLU:HG2	1:238:A:ARG:HA	18	0.19
(1,615)	1:221:A:GLU:HG2	1:234:A:PHE:HZ	17	0.19
(1,586)	1:220:A:ASN:HD21	1:224:A:LEU:H	13	0.19
(1,580)	1:220:A:ASN:HD21	1:221:A:GLU:H	10	0.19
(1,580)	1:220:A:ASN:HD21	1:221:A:GLU:H	13	0.19
(1,580)	1:220:A:ASN:HD21	1:221:A:GLU:H	18	0.19
(1,541)	1:218:A:GLU:HA	1:219:A:THR:H	3	0.19
(1,541)	1:218:A:GLU:HA	1:219:A:THR:H	6	0.19
(1,541)	1:218:A:GLU:HA	1:219:A:THR:H	16	0.19
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG21	1	0.19
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG22	1	0.19
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG23	1	0.19
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG21	2	0.19
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG22	2	0.19
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG23	2	0.19
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG21	9	0.19
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG22	9	0.19
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG23	9	0.19
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG21	12	0.19
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG22	12	0.19
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG23	12	0.19
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG21	15	0.19
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG22	15	0.19
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG23	15	0.19
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG21	17	0.19
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG22	17	0.19
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG23	17	0.19
(1,416)	1:214:A:ASN:HD21	1:274:A:ALA:H	10	0.19
(1,416)	1:214:A:ASN:HD21	1:274:A:ALA:H	13	0.19
(1,346)	1:212:A:LEU:HD11	1:277:A:ILE:H	6	0.19
(1,346)	1:212:A:LEU:HD12	1:277:A:ILE:H	6	0.19
(1,346)	1:212:A:LEU:HD13	1:277:A:ILE:H	6	0.19
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG21	13	0.19
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG22	13	0.19
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG23	13	0.19
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG21	13	0.19
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG22	13	0.19
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG23	13	0.19
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG21	15	0.19
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG22	15	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG23	15	0.19
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG21	15	0.19
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG22	15	0.19
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG23	15	0.19
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG21	18	0.19
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG22	18	0.19
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG23	18	0.19
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG21	18	0.19
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG22	18	0.19
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG23	18	0.19
(1,222)	1:210:A:LEU:HG	1:261:A:ARG:HG3	13	0.19
(1,183)	1:209:A:ILE:HG21	1:249:A:VAL:H	6	0.19
(1,183)	1:209:A:ILE:HG22	1:249:A:VAL:H	6	0.19
(1,183)	1:209:A:ILE:HG23	1:249:A:VAL:H	6	0.19
(1,167)	1:209:A:ILE:HD11	1:236:A:GLU:H	6	0.19
(1,167)	1:209:A:ILE:HD12	1:236:A:GLU:H	6	0.19
(1,167)	1:209:A:ILE:HD13	1:236:A:GLU:H	6	0.19
(1,157)	1:209:A:ILE:HG12	1:238:A:ARG:HB2	16	0.19
(1,123)	1:208:A:HIS:HA	1:257:A:ALA:H	5	0.19
(1,116)	1:207:A:ASN:HD22	1:280:A:ALA:H	1	0.19
(1,116)	1:207:A:ASN:HD22	1:280:A:ALA:H	20	0.19
(1,115)	1:207:A:ASN:HD22	1:248:A:PHE:HD1	15	0.19
(1,115)	1:207:A:ASN:HD22	1:248:A:PHE:HD2	15	0.19
(1,115)	1:207:A:ASN:HD22	1:248:A:PHE:HD1	16	0.19
(1,115)	1:207:A:ASN:HD22	1:248:A:PHE:HD2	16	0.19
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD11	2	0.19
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD12	2	0.19
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD13	2	0.19
(1,100)	1:207:A:ASN:HB2	1:209:A:ILE:HD11	13	0.19
(1,100)	1:207:A:ASN:HB2	1:209:A:ILE:HD12	13	0.19
(1,100)	1:207:A:ASN:HB2	1:209:A:ILE:HD13	13	0.19
(1,16)	1:193:A:GLY:HA2	1:195:A:MET:HA	13	0.19
(1,16)	1:193:A:GLY:HA3	1:195:A:MET:HA	13	0.19
(2,54)	1:262:A:ASP:H	1:258:A:GLY:O	2	0.18
(2,54)	1:262:A:ASP:H	1:258:A:GLY:O	3	0.18
(2,54)	1:262:A:ASP:H	1:258:A:GLY:O	7	0.18
(2,53)	1:262:A:ASP:N	1:258:A:GLY:O	1	0.18
(2,53)	1:262:A:ASP:N	1:258:A:GLY:O	5	0.18
(2,53)	1:262:A:ASP:N	1:258:A:GLY:O	6	0.18
(2,53)	1:262:A:ASP:N	1:258:A:GLY:O	15	0.18
(2,53)	1:262:A:ASP:N	1:258:A:GLY:O	17	0.18
(2,48)	1:264:A:LEU:H	1:261:A:ARG:O	8	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,48)	1:264:A:LEU:H	1:261:A:ARG:O	9	0.18
(2,48)	1:264:A:LEU:H	1:261:A:ARG:O	11	0.18
(2,48)	1:264:A:LEU:H	1:261:A:ARG:O	13	0.18
(2,48)	1:264:A:LEU:H	1:261:A:ARG:O	14	0.18
(2,32)	1:224:A:LEU:O	1:228:A:PHE:H	2	0.18
(2,32)	1:224:A:LEU:O	1:228:A:PHE:H	3	0.18
(2,32)	1:224:A:LEU:O	1:228:A:PHE:H	6	0.18
(2,32)	1:224:A:LEU:O	1:228:A:PHE:H	9	0.18
(2,32)	1:224:A:LEU:O	1:228:A:PHE:H	13	0.18
(2,32)	1:224:A:LEU:O	1:228:A:PHE:H	14	0.18
(2,32)	1:224:A:LEU:O	1:228:A:PHE:H	15	0.18
(1,1529)	1:275:A:MET:HB2	1:275:A:MET:HE1	13	0.18
(1,1529)	1:275:A:MET:HB2	1:275:A:MET:HE2	13	0.18
(1,1529)	1:275:A:MET:HB2	1:275:A:MET:HE3	13	0.18
(1,1519)	1:274:A:ALA:HA	1:276:A:LYS:HD2	11	0.18
(1,1519)	1:274:A:ALA:HA	1:276:A:LYS:HD3	11	0.18
(1,1519)	1:274:A:ALA:HA	1:276:A:LYS:HD2	13	0.18
(1,1519)	1:274:A:ALA:HA	1:276:A:LYS:HD3	13	0.18
(1,1519)	1:274:A:ALA:HA	1:276:A:LYS:HD2	15	0.18
(1,1519)	1:274:A:ALA:HA	1:276:A:LYS:HD3	15	0.18
(1,1503)	1:272:A:ASN:H	1:273:A:ASN:HD21	7	0.18
(1,1503)	1:272:A:ASN:H	1:273:A:ASN:HD22	7	0.18
(1,1369)	1:265:A:GLN:H	1:265:A:GLN:HE21	6	0.18
(1,1369)	1:265:A:GLN:H	1:265:A:GLN:HE21	7	0.18
(1,1369)	1:265:A:GLN:H	1:265:A:GLN:HE21	8	0.18
(1,1344)	1:263:A:ALA:HB1	1:265:A:GLN:HB2	13	0.18
(1,1344)	1:263:A:ALA:HB2	1:265:A:GLN:HB2	13	0.18
(1,1344)	1:263:A:ALA:HB3	1:265:A:GLN:HB2	13	0.18
(1,1338)	1:263:A:ALA:H	1:277:A:ILE:HB	17	0.18
(1,1227)	1:255:A:VAL:HG11	1:257:A:ALA:H	7	0.18
(1,1227)	1:255:A:VAL:HG12	1:257:A:ALA:H	7	0.18
(1,1227)	1:255:A:VAL:HG13	1:257:A:ALA:H	7	0.18
(1,1227)	1:255:A:VAL:HG11	1:257:A:ALA:H	11	0.18
(1,1227)	1:255:A:VAL:HG12	1:257:A:ALA:H	11	0.18
(1,1227)	1:255:A:VAL:HG13	1:257:A:ALA:H	11	0.18
(1,1227)	1:255:A:VAL:HG11	1:257:A:ALA:H	14	0.18
(1,1227)	1:255:A:VAL:HG12	1:257:A:ALA:H	14	0.18
(1,1227)	1:255:A:VAL:HG13	1:257:A:ALA:H	14	0.18
(1,1175)	1:251:A:PHE:HD1	1:259:A:ALA:H	3	0.18
(1,1175)	1:251:A:PHE:HD2	1:259:A:ALA:H	3	0.18
(1,1175)	1:251:A:PHE:HD1	1:259:A:ALA:H	6	0.18
(1,1175)	1:251:A:PHE:HD2	1:259:A:ALA:H	6	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1175)	1:251:A:PHE:HD1	1:259:A:ALA:H	11	0.18
(1,1175)	1:251:A:PHE:HD2	1:259:A:ALA:H	11	0.18
(1,1175)	1:251:A:PHE:HD1	1:259:A:ALA:H	13	0.18
(1,1175)	1:251:A:PHE:HD2	1:259:A:ALA:H	13	0.18
(1,1144)	1:250:A:GLU:HA	1:257:A:ALA:H	12	0.18
(1,1083)	1:245:A:ASP:HA	1:273:A:ASN:HB3	3	0.18
(1,1083)	1:245:A:ASP:HA	1:273:A:ASN:HB3	18	0.18
(1,1039)	1:240:A:VAL:H	1:243:A:ARG:H	11	0.18
(1,1008)	1:238:A:ARG:HD2	1:248:A:PHE:HB2	18	0.18
(1,947)	1:235:A:LYS:HG3	1:253:A:ASN:HB3	6	0.18
(1,947)	1:235:A:LYS:HG3	1:253:A:ASN:HB3	10	0.18
(1,947)	1:235:A:LYS:HG3	1:253:A:ASN:HB3	16	0.18
(1,936)	1:235:A:LYS:HB2	1:236:A:GLU:H	12	0.18
(1,926)	1:235:A:LYS:H	1:235:A:LYS:HG2	18	0.18
(1,926)	1:235:A:LYS:H	1:235:A:LYS:HG3	18	0.18
(1,885)	1:233:A:GLY:H	1:234:A:PHE:H	3	0.18
(1,880)	1:232:A:PRO:HA	1:233:A:GLY:H	15	0.18
(1,880)	1:232:A:PRO:HA	1:233:A:GLY:H	16	0.18
(1,811)	1:228:A:PHE:HD1	1:249:A:VAL:HB	2	0.18
(1,811)	1:228:A:PHE:HD2	1:249:A:VAL:HB	2	0.18
(1,811)	1:228:A:PHE:HD1	1:249:A:VAL:HB	3	0.18
(1,811)	1:228:A:PHE:HD2	1:249:A:VAL:HB	3	0.18
(1,811)	1:228:A:PHE:HD1	1:249:A:VAL:HB	9	0.18
(1,811)	1:228:A:PHE:HD2	1:249:A:VAL:HB	9	0.18
(1,811)	1:228:A:PHE:HD1	1:249:A:VAL:HB	10	0.18
(1,811)	1:228:A:PHE:HD2	1:249:A:VAL:HB	10	0.18
(1,811)	1:228:A:PHE:HD1	1:249:A:VAL:HB	16	0.18
(1,811)	1:228:A:PHE:HD2	1:249:A:VAL:HB	16	0.18
(1,811)	1:228:A:PHE:HD1	1:249:A:VAL:HB	19	0.18
(1,811)	1:228:A:PHE:HD2	1:249:A:VAL:HB	19	0.18
(1,805)	1:228:A:PHE:HZ	1:260:A:ALA:HA	12	0.18
(1,754)	1:227:A:LEU:HB2	1:228:A:PHE:H	1	0.18
(1,754)	1:227:A:LEU:HB2	1:228:A:PHE:H	2	0.18
(1,754)	1:227:A:LEU:HB2	1:228:A:PHE:H	4	0.18
(1,754)	1:227:A:LEU:HB2	1:228:A:PHE:H	8	0.18
(1,754)	1:227:A:LEU:HB2	1:228:A:PHE:H	11	0.18
(1,754)	1:227:A:LEU:HB2	1:228:A:PHE:H	15	0.18
(1,754)	1:227:A:LEU:HB2	1:228:A:PHE:H	16	0.18
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD21	16	0.18
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD22	16	0.18
(1,741)	1:226:A:MET:HG2	1:227:A:LEU:HD23	16	0.18
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD21	16	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD22	16	0.18
(1,741)	1:226:A:MET:HG3	1:227:A:LEU:HD23	16	0.18
(1,586)	1:220:A:ASN:HD21	1:224:A:LEU:H	3	0.18
(1,586)	1:220:A:ASN:HD21	1:224:A:LEU:H	7	0.18
(1,586)	1:220:A:ASN:HD21	1:224:A:LEU:H	8	0.18
(1,586)	1:220:A:ASN:HD21	1:224:A:LEU:H	14	0.18
(1,572)	1:220:A:ASN:HA	1:220:A:ASN:HD21	1	0.18
(1,572)	1:220:A:ASN:HA	1:220:A:ASN:HD21	2	0.18
(1,572)	1:220:A:ASN:HA	1:220:A:ASN:HD21	4	0.18
(1,572)	1:220:A:ASN:HA	1:220:A:ASN:HD21	6	0.18
(1,572)	1:220:A:ASN:HA	1:220:A:ASN:HD21	7	0.18
(1,572)	1:220:A:ASN:HA	1:220:A:ASN:HD21	10	0.18
(1,572)	1:220:A:ASN:HA	1:220:A:ASN:HD21	12	0.18
(1,572)	1:220:A:ASN:HA	1:220:A:ASN:HD21	14	0.18
(1,572)	1:220:A:ASN:HA	1:220:A:ASN:HD21	17	0.18
(1,572)	1:220:A:ASN:HA	1:220:A:ASN:HD21	18	0.18
(1,541)	1:218:A:GLU:HA	1:219:A:THR:H	1	0.18
(1,541)	1:218:A:GLU:HA	1:219:A:THR:H	2	0.18
(1,541)	1:218:A:GLU:HA	1:219:A:THR:H	8	0.18
(1,541)	1:218:A:GLU:HA	1:219:A:THR:H	9	0.18
(1,541)	1:218:A:GLU:HA	1:219:A:THR:H	13	0.18
(1,541)	1:218:A:GLU:HA	1:219:A:THR:H	19	0.18
(1,541)	1:218:A:GLU:HA	1:219:A:THR:H	20	0.18
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG21	4	0.18
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG22	4	0.18
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG23	4	0.18
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG21	5	0.18
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG22	5	0.18
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG23	5	0.18
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG21	7	0.18
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG22	7	0.18
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG23	7	0.18
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG21	14	0.18
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG22	14	0.18
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG23	14	0.18
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG21	18	0.18
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG22	18	0.18
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG23	18	0.18
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG21	19	0.18
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG22	19	0.18
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG23	19	0.18
(1,346)	1:212:A:LEU:HD11	1:277:A:ILE:H	14	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,346)	1:212:A:LEU:HD12	1:277:A:ILE:H	14	0.18
(1,346)	1:212:A:LEU:HD13	1:277:A:ILE:H	14	0.18
(1,346)	1:212:A:LEU:HD11	1:277:A:ILE:H	15	0.18
(1,346)	1:212:A:LEU:HD12	1:277:A:ILE:H	15	0.18
(1,346)	1:212:A:LEU:HD13	1:277:A:ILE:H	15	0.18
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG21	3	0.18
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG22	3	0.18
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG23	3	0.18
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG21	3	0.18
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG22	3	0.18
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG23	3	0.18
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG21	11	0.18
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG22	11	0.18
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG23	11	0.18
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG21	11	0.18
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG22	11	0.18
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG23	11	0.18
(1,222)	1:210:A:LEU:HG	1:261:A:ARG:HG3	10	0.18
(1,222)	1:210:A:LEU:HG	1:261:A:ARG:HG3	14	0.18
(1,222)	1:210:A:LEU:HG	1:261:A:ARG:HG3	19	0.18
(1,183)	1:209:A:ILE:HG21	1:249:A:VAL:H	3	0.18
(1,183)	1:209:A:ILE:HG22	1:249:A:VAL:H	3	0.18
(1,183)	1:209:A:ILE:HG23	1:249:A:VAL:H	3	0.18
(1,183)	1:209:A:ILE:HG21	1:249:A:VAL:H	12	0.18
(1,183)	1:209:A:ILE:HG22	1:249:A:VAL:H	12	0.18
(1,183)	1:209:A:ILE:HG23	1:249:A:VAL:H	12	0.18
(1,157)	1:209:A:ILE:HG12	1:238:A:ARG:HB2	9	0.18
(1,157)	1:209:A:ILE:HG12	1:238:A:ARG:HB2	15	0.18
(1,157)	1:209:A:ILE:HG12	1:238:A:ARG:HB2	19	0.18
(1,123)	1:208:A:HIS:HA	1:257:A:ALA:H	7	0.18
(1,123)	1:208:A:HIS:HA	1:257:A:ALA:H	16	0.18
(1,122)	1:208:A:HIS:HA	1:208:A:HIS:HD2	5	0.18
(1,115)	1:207:A:ASN:HD22	1:248:A:PHE:HD1	1	0.18
(1,115)	1:207:A:ASN:HD22	1:248:A:PHE:HD2	1	0.18
(1,115)	1:207:A:ASN:HD22	1:248:A:PHE:HD1	4	0.18
(1,115)	1:207:A:ASN:HD22	1:248:A:PHE:HD2	4	0.18
(1,115)	1:207:A:ASN:HD22	1:248:A:PHE:HD1	18	0.18
(1,115)	1:207:A:ASN:HD22	1:248:A:PHE:HD2	18	0.18
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD11	5	0.18
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD12	5	0.18
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD13	5	0.18
(1,100)	1:207:A:ASN:HB2	1:209:A:ILE:HD11	5	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,100)	1:207:A:ASN:HB2	1:209:A:ILE:HD12	5	0.18
(1,100)	1:207:A:ASN:HB2	1:209:A:ILE:HD13	5	0.18
(1,100)	1:207:A:ASN:HB2	1:209:A:ILE:HD11	8	0.18
(1,100)	1:207:A:ASN:HB2	1:209:A:ILE:HD12	8	0.18
(1,100)	1:207:A:ASN:HB2	1:209:A:ILE:HD13	8	0.18
(2,54)	1:262:A:ASP:H	1:258:A:GLY:O	9	0.17
(2,54)	1:262:A:ASP:H	1:258:A:GLY:O	12	0.17
(2,54)	1:262:A:ASP:H	1:258:A:GLY:O	13	0.17
(2,53)	1:262:A:ASP:N	1:258:A:GLY:O	3	0.17
(2,53)	1:262:A:ASP:N	1:258:A:GLY:O	4	0.17
(2,53)	1:262:A:ASP:N	1:258:A:GLY:O	7	0.17
(2,53)	1:262:A:ASP:N	1:258:A:GLY:O	8	0.17
(2,53)	1:262:A:ASP:N	1:258:A:GLY:O	11	0.17
(2,53)	1:262:A:ASP:N	1:258:A:GLY:O	14	0.17
(2,53)	1:262:A:ASP:N	1:258:A:GLY:O	18	0.17
(2,53)	1:262:A:ASP:N	1:258:A:GLY:O	19	0.17
(2,53)	1:262:A:ASP:N	1:258:A:GLY:O	20	0.17
(2,48)	1:264:A:LEU:H	1:261:A:ARG:O	7	0.17
(2,48)	1:264:A:LEU:H	1:261:A:ARG:O	20	0.17
(2,32)	1:224:A:LEU:O	1:228:A:PHE:H	1	0.17
(2,32)	1:224:A:LEU:O	1:228:A:PHE:H	4	0.17
(2,32)	1:224:A:LEU:O	1:228:A:PHE:H	7	0.17
(2,32)	1:224:A:LEU:O	1:228:A:PHE:H	10	0.17
(2,32)	1:224:A:LEU:O	1:228:A:PHE:H	11	0.17
(2,32)	1:224:A:LEU:O	1:228:A:PHE:H	12	0.17
(2,32)	1:224:A:LEU:O	1:228:A:PHE:H	16	0.17
(2,32)	1:224:A:LEU:O	1:228:A:PHE:H	17	0.17
(2,10)	1:214:A:ASN:H	1:245:A:ASP:O	10	0.17
(1,1519)	1:274:A:ALA:HA	1:276:A:LYS:HD2	14	0.17
(1,1519)	1:274:A:ALA:HA	1:276:A:LYS:HD3	14	0.17
(1,1519)	1:274:A:ALA:HA	1:276:A:LYS:HD2	19	0.17
(1,1519)	1:274:A:ALA:HA	1:276:A:LYS:HD3	19	0.17
(1,1503)	1:272:A:ASN:H	1:273:A:ASN:HD21	3	0.17
(1,1503)	1:272:A:ASN:H	1:273:A:ASN:HD22	3	0.17
(1,1503)	1:272:A:ASN:H	1:273:A:ASN:HD21	10	0.17
(1,1503)	1:272:A:ASN:H	1:273:A:ASN:HD22	10	0.17
(1,1503)	1:272:A:ASN:H	1:273:A:ASN:HD21	20	0.17
(1,1503)	1:272:A:ASN:H	1:273:A:ASN:HD22	20	0.17
(1,1405)	1:266:A:GLY:HA2	1:276:A:LYS:HG2	1	0.17
(1,1405)	1:266:A:GLY:HA2	1:276:A:LYS:HG3	1	0.17
(1,1405)	1:266:A:GLY:HA2	1:276:A:LYS:HG2	16	0.17
(1,1405)	1:266:A:GLY:HA2	1:276:A:LYS:HG3	16	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1369)	1:265:A:GLN:H	1:265:A:GLN:HE21	14	0.17
(1,1338)	1:263:A:ALA:H	1:277:A:ILE:HB	18	0.17
(1,1227)	1:255:A:VAL:HG11	1:257:A:ALA:H	2	0.17
(1,1227)	1:255:A:VAL:HG12	1:257:A:ALA:H	2	0.17
(1,1227)	1:255:A:VAL:HG13	1:257:A:ALA:H	2	0.17
(1,1227)	1:255:A:VAL:HG11	1:257:A:ALA:H	3	0.17
(1,1227)	1:255:A:VAL:HG12	1:257:A:ALA:H	3	0.17
(1,1227)	1:255:A:VAL:HG13	1:257:A:ALA:H	3	0.17
(1,1227)	1:255:A:VAL:HG11	1:257:A:ALA:H	8	0.17
(1,1227)	1:255:A:VAL:HG12	1:257:A:ALA:H	8	0.17
(1,1227)	1:255:A:VAL:HG13	1:257:A:ALA:H	8	0.17
(1,1227)	1:255:A:VAL:HG11	1:257:A:ALA:H	9	0.17
(1,1227)	1:255:A:VAL:HG12	1:257:A:ALA:H	9	0.17
(1,1227)	1:255:A:VAL:HG13	1:257:A:ALA:H	9	0.17
(1,1227)	1:255:A:VAL:HG11	1:257:A:ALA:H	16	0.17
(1,1227)	1:255:A:VAL:HG12	1:257:A:ALA:H	16	0.17
(1,1227)	1:255:A:VAL:HG13	1:257:A:ALA:H	16	0.17
(1,1175)	1:251:A:PHE:HD1	1:259:A:ALA:H	1	0.17
(1,1175)	1:251:A:PHE:HD2	1:259:A:ALA:H	1	0.17
(1,1175)	1:251:A:PHE:HD1	1:259:A:ALA:H	5	0.17
(1,1175)	1:251:A:PHE:HD2	1:259:A:ALA:H	5	0.17
(1,1175)	1:251:A:PHE:HD1	1:259:A:ALA:H	14	0.17
(1,1175)	1:251:A:PHE:HD2	1:259:A:ALA:H	14	0.17
(1,1175)	1:251:A:PHE:HD1	1:259:A:ALA:H	19	0.17
(1,1175)	1:251:A:PHE:HD2	1:259:A:ALA:H	19	0.17
(1,1175)	1:251:A:PHE:HD1	1:259:A:ALA:H	20	0.17
(1,1175)	1:251:A:PHE:HD2	1:259:A:ALA:H	20	0.17
(1,1143)	1:250:A:GLU:HA	1:251:A:PHE:HD1	10	0.17
(1,1143)	1:250:A:GLU:HA	1:251:A:PHE:HD2	10	0.17
(1,1083)	1:245:A:ASP:HA	1:273:A:ASN:HB3	8	0.17
(1,1083)	1:245:A:ASP:HA	1:273:A:ASN:HB3	12	0.17
(1,1083)	1:245:A:ASP:HA	1:273:A:ASN:HB3	15	0.17
(1,1040)	1:240:A:VAL:H	1:246:A:ILE:HD11	2	0.17
(1,1040)	1:240:A:VAL:H	1:246:A:ILE:HD12	2	0.17
(1,1040)	1:240:A:VAL:H	1:246:A:ILE:HD13	2	0.17
(1,1013)	1:238:A:ARG:HG2	1:239:A:LEU:HA	6	0.17
(1,1013)	1:238:A:ARG:HG3	1:239:A:LEU:HA	6	0.17
(1,983)	1:238:A:ARG:H	1:238:A:ARG:HG2	6	0.17
(1,983)	1:238:A:ARG:H	1:238:A:ARG:HG3	6	0.17
(1,947)	1:235:A:LYS:HG3	1:253:A:ASN:HB3	5	0.17
(1,936)	1:235:A:LYS:HB2	1:236:A:GLU:H	20	0.17
(1,926)	1:235:A:LYS:H	1:235:A:LYS:HG2	8	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,926)	1:235:A:LYS:H	1:235:A:LYS:HG3	8	0.17
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD11	3	0.17
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD12	3	0.17
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD13	3	0.17
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD11	5	0.17
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD12	5	0.17
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD13	5	0.17
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD11	6	0.17
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD12	6	0.17
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD13	6	0.17
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD11	9	0.17
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD12	9	0.17
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD13	9	0.17
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD11	19	0.17
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD12	19	0.17
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD13	19	0.17
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD11	20	0.17
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD12	20	0.17
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD13	20	0.17
(1,684)	1:224:A:LEU:HB2	1:225:A:SER:H	1	0.17
(1,684)	1:224:A:LEU:HB2	1:225:A:SER:H	8	0.17
(1,684)	1:224:A:LEU:HB2	1:225:A:SER:H	13	0.17
(1,684)	1:224:A:LEU:HB2	1:225:A:SER:H	15	0.17
(1,684)	1:224:A:LEU:HB2	1:225:A:SER:H	17	0.17
(1,684)	1:224:A:LEU:HB2	1:225:A:SER:H	18	0.17
(1,684)	1:224:A:LEU:HB2	1:225:A:SER:H	19	0.17
(1,622)	1:221:A:GLU:HG3	1:239:A:LEU:H	19	0.17
(1,615)	1:221:A:GLU:HG2	1:234:A:PHE:HZ	1	0.17
(1,615)	1:221:A:GLU:HG2	1:234:A:PHE:HZ	5	0.17
(1,615)	1:221:A:GLU:HG2	1:234:A:PHE:HZ	15	0.17
(1,586)	1:220:A:ASN:HD21	1:224:A:LEU:H	2	0.17
(1,586)	1:220:A:ASN:HD21	1:224:A:LEU:H	4	0.17
(1,586)	1:220:A:ASN:HD21	1:224:A:LEU:H	6	0.17
(1,586)	1:220:A:ASN:HD21	1:224:A:LEU:H	9	0.17
(1,586)	1:220:A:ASN:HD21	1:224:A:LEU:H	11	0.17
(1,586)	1:220:A:ASN:HD21	1:224:A:LEU:H	17	0.17
(1,586)	1:220:A:ASN:HD21	1:224:A:LEU:H	18	0.17
(1,586)	1:220:A:ASN:HD21	1:224:A:LEU:H	20	0.17
(1,572)	1:220:A:ASN:HA	1:220:A:ASN:HD21	3	0.17
(1,572)	1:220:A:ASN:HA	1:220:A:ASN:HD21	5	0.17
(1,572)	1:220:A:ASN:HA	1:220:A:ASN:HD21	8	0.17
(1,572)	1:220:A:ASN:HA	1:220:A:ASN:HD21	9	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,572)	1:220:A:ASN:HA	1:220:A:ASN:HD21	11	0.17
(1,572)	1:220:A:ASN:HA	1:220:A:ASN:HD21	13	0.17
(1,572)	1:220:A:ASN:HA	1:220:A:ASN:HD21	15	0.17
(1,572)	1:220:A:ASN:HA	1:220:A:ASN:HD21	16	0.17
(1,572)	1:220:A:ASN:HA	1:220:A:ASN:HD21	19	0.17
(1,572)	1:220:A:ASN:HA	1:220:A:ASN:HD21	20	0.17
(1,541)	1:218:A:GLU:HA	1:219:A:THR:H	7	0.17
(1,541)	1:218:A:GLU:HA	1:219:A:THR:H	18	0.17
(1,443)	1:215:A:LEU:HB3	1:244:A:HIS:HD2	13	0.17
(1,415)	1:214:A:ASN:HD21	1:273:A:ASN:HA	10	0.17
(1,346)	1:212:A:LEU:HD11	1:277:A:ILE:H	10	0.17
(1,346)	1:212:A:LEU:HD12	1:277:A:ILE:H	10	0.17
(1,346)	1:212:A:LEU:HD13	1:277:A:ILE:H	10	0.17
(1,346)	1:212:A:LEU:HD11	1:277:A:ILE:H	19	0.17
(1,346)	1:212:A:LEU:HD12	1:277:A:ILE:H	19	0.17
(1,346)	1:212:A:LEU:HD13	1:277:A:ILE:H	19	0.17
(1,316)	1:212:A:LEU:HA	1:276:A:LYS:HB3	9	0.17
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG21	2	0.17
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG22	2	0.17
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG23	2	0.17
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG21	2	0.17
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG22	2	0.17
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG23	2	0.17
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG21	7	0.17
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG22	7	0.17
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG23	7	0.17
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG21	7	0.17
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG22	7	0.17
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG23	7	0.17
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG21	9	0.17
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG22	9	0.17
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG23	9	0.17
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG21	9	0.17
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG22	9	0.17
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG23	9	0.17
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG21	17	0.17
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG22	17	0.17
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG23	17	0.17
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG21	17	0.17
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG22	17	0.17
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG23	17	0.17
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG21	19	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG22	19	0.17
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG23	19	0.17
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG21	19	0.17
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG22	19	0.17
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG23	19	0.17
(1,157)	1:209:A:ILE:HG12	1:238:A:ARG:HB2	2	0.17
(1,157)	1:209:A:ILE:HG12	1:238:A:ARG:HB2	11	0.17
(1,157)	1:209:A:ILE:HG12	1:238:A:ARG:HB2	14	0.17
(1,123)	1:208:A:HIS:HA	1:257:A:ALA:H	3	0.17
(1,123)	1:208:A:HIS:HA	1:257:A:ALA:H	8	0.17
(1,123)	1:208:A:HIS:HA	1:257:A:ALA:H	14	0.17
(1,123)	1:208:A:HIS:HA	1:257:A:ALA:H	20	0.17
(1,122)	1:208:A:HIS:HA	1:208:A:HIS:HD2	10	0.17
(1,122)	1:208:A:HIS:HA	1:208:A:HIS:HD2	15	0.17
(1,120)	1:207:A:ASN:HD22	1:282:A:LYS:HG2	6	0.17
(1,120)	1:207:A:ASN:HD22	1:282:A:LYS:HG3	6	0.17
(1,116)	1:207:A:ASN:HD22	1:280:A:ALA:H	11	0.17
(1,116)	1:207:A:ASN:HD22	1:280:A:ALA:H	19	0.17
(1,115)	1:207:A:ASN:HD22	1:248:A:PHE:HD1	20	0.17
(1,115)	1:207:A:ASN:HD22	1:248:A:PHE:HD2	20	0.17
(1,108)	1:207:A:ASN:HD21	1:282:A:LYS:HD2	10	0.17
(1,108)	1:207:A:ASN:HD21	1:282:A:LYS:HD3	10	0.17
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD11	8	0.17
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD12	8	0.17
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD13	8	0.17
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD11	9	0.17
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD12	9	0.17
(1,102)	1:207:A:ASN:HD21	1:209:A:ILE:HD13	9	0.17
(1,46)	1:200:A:PRO:HG2	1:201:A:LEU:HB2	19	0.17
(1,46)	1:200:A:PRO:HG2	1:201:A:LEU:HB3	19	0.17
(1,46)	1:200:A:PRO:HG3	1:201:A:LEU:HB2	19	0.17
(1,46)	1:200:A:PRO:HG3	1:201:A:LEU:HB3	19	0.17
(1,39)	1:198:A:ALA:HB1	1:199:A:GLN:HB2	9	0.17
(1,39)	1:198:A:ALA:HB1	1:199:A:GLN:HB3	9	0.17
(1,39)	1:198:A:ALA:HB2	1:199:A:GLN:HB2	9	0.17
(1,39)	1:198:A:ALA:HB2	1:199:A:GLN:HB3	9	0.17
(1,39)	1:198:A:ALA:HB3	1:199:A:GLN:HB2	9	0.17
(1,39)	1:198:A:ALA:HB3	1:199:A:GLN:HB3	9	0.17
(2,53)	1:262:A:ASP:N	1:258:A:GLY:O	2	0.16
(2,53)	1:262:A:ASP:N	1:258:A:GLY:O	13	0.16
(2,48)	1:264:A:LEU:H	1:261:A:ARG:O	1	0.16
(2,48)	1:264:A:LEU:H	1:261:A:ARG:O	3	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,48)	1:264:A:LEU:H	1:261:A:ARG:O	18	0.16
(2,32)	1:224:A:LEU:O	1:228:A:PHE:H	5	0.16
(2,32)	1:224:A:LEU:O	1:228:A:PHE:H	20	0.16
(2,28)	1:222:A:LEU:O	1:226:A:MET:H	6	0.16
(1,1519)	1:274:A:ALA:HA	1:276:A:LYS:HD2	2	0.16
(1,1519)	1:274:A:ALA:HA	1:276:A:LYS:HD3	2	0.16
(1,1519)	1:274:A:ALA:HA	1:276:A:LYS:HD2	7	0.16
(1,1519)	1:274:A:ALA:HA	1:276:A:LYS:HD3	7	0.16
(1,1498)	1:271:A:GLN:HB2	1:273:A:ASN:H	19	0.16
(1,1498)	1:271:A:GLN:HB3	1:273:A:ASN:H	19	0.16
(1,1456)	1:268:A:LYS:HD2	1:269:A:ILE:HA	4	0.16
(1,1456)	1:268:A:LYS:HD3	1:269:A:ILE:HA	4	0.16
(1,1369)	1:265:A:GLN:H	1:265:A:GLN:HE21	3	0.16
(1,1369)	1:265:A:GLN:H	1:265:A:GLN:HE21	17	0.16
(1,1369)	1:265:A:GLN:H	1:265:A:GLN:HE21	19	0.16
(1,1369)	1:265:A:GLN:H	1:265:A:GLN:HE21	20	0.16
(1,1342)	1:263:A:ALA:HB1	1:264:A:LEU:HB2	12	0.16
(1,1342)	1:263:A:ALA:HB1	1:264:A:LEU:HB3	12	0.16
(1,1342)	1:263:A:ALA:HB2	1:264:A:LEU:HB2	12	0.16
(1,1342)	1:263:A:ALA:HB2	1:264:A:LEU:HB3	12	0.16
(1,1342)	1:263:A:ALA:HB3	1:264:A:LEU:HB2	12	0.16
(1,1342)	1:263:A:ALA:HB3	1:264:A:LEU:HB3	12	0.16
(1,1342)	1:263:A:ALA:HB1	1:264:A:LEU:HB2	13	0.16
(1,1342)	1:263:A:ALA:HB1	1:264:A:LEU:HB3	13	0.16
(1,1342)	1:263:A:ALA:HB2	1:264:A:LEU:HB2	13	0.16
(1,1342)	1:263:A:ALA:HB2	1:264:A:LEU:HB3	13	0.16
(1,1342)	1:263:A:ALA:HB3	1:264:A:LEU:HB2	13	0.16
(1,1342)	1:263:A:ALA:HB3	1:264:A:LEU:HB3	13	0.16
(1,1338)	1:263:A:ALA:H	1:277:A:ILE:HB	12	0.16
(1,1301)	1:261:A:ARG:HB2	1:262:A:ASP:HB2	3	0.16
(1,1301)	1:261:A:ARG:HB2	1:262:A:ASP:HB3	3	0.16
(1,1229)	1:255:A:VAL:HG21	1:256:A:GLN:H	3	0.16
(1,1229)	1:255:A:VAL:HG22	1:256:A:GLN:H	3	0.16
(1,1229)	1:255:A:VAL:HG23	1:256:A:GLN:H	3	0.16
(1,1229)	1:255:A:VAL:HG21	1:256:A:GLN:H	12	0.16
(1,1229)	1:255:A:VAL:HG22	1:256:A:GLN:H	12	0.16
(1,1229)	1:255:A:VAL:HG23	1:256:A:GLN:H	12	0.16
(1,1227)	1:255:A:VAL:HG11	1:257:A:ALA:H	5	0.16
(1,1227)	1:255:A:VAL:HG12	1:257:A:ALA:H	5	0.16
(1,1227)	1:255:A:VAL:HG13	1:257:A:ALA:H	5	0.16
(1,1227)	1:255:A:VAL:HG11	1:257:A:ALA:H	6	0.16
(1,1227)	1:255:A:VAL:HG12	1:257:A:ALA:H	6	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1227)	1:255:A:VAL:HG13	1:257:A:ALA:H	6	0.16
(1,1227)	1:255:A:VAL:HG11	1:257:A:ALA:H	13	0.16
(1,1227)	1:255:A:VAL:HG12	1:257:A:ALA:H	13	0.16
(1,1227)	1:255:A:VAL:HG13	1:257:A:ALA:H	13	0.16
(1,1175)	1:251:A:PHE:HD1	1:259:A:ALA:H	16	0.16
(1,1175)	1:251:A:PHE:HD2	1:259:A:ALA:H	16	0.16
(1,1143)	1:250:A:GLU:HA	1:251:A:PHE:HD1	5	0.16
(1,1143)	1:250:A:GLU:HA	1:251:A:PHE:HD2	5	0.16
(1,1143)	1:250:A:GLU:HA	1:251:A:PHE:HD1	13	0.16
(1,1143)	1:250:A:GLU:HA	1:251:A:PHE:HD2	13	0.16
(1,1143)	1:250:A:GLU:HA	1:251:A:PHE:HD1	16	0.16
(1,1143)	1:250:A:GLU:HA	1:251:A:PHE:HD2	16	0.16
(1,1143)	1:250:A:GLU:HA	1:251:A:PHE:HD1	18	0.16
(1,1143)	1:250:A:GLU:HA	1:251:A:PHE:HD2	18	0.16
(1,1083)	1:245:A:ASP:HA	1:273:A:ASN:HB3	14	0.16
(1,1013)	1:238:A:ARG:HG2	1:239:A:LEU:HA	3	0.16
(1,1013)	1:238:A:ARG:HG3	1:239:A:LEU:HA	3	0.16
(1,1008)	1:238:A:ARG:HD2	1:248:A:PHE:HB2	10	0.16
(1,983)	1:238:A:ARG:H	1:238:A:ARG:HG2	3	0.16
(1,983)	1:238:A:ARG:H	1:238:A:ARG:HG3	3	0.16
(1,983)	1:238:A:ARG:H	1:238:A:ARG:HG2	13	0.16
(1,983)	1:238:A:ARG:H	1:238:A:ARG:HG3	13	0.16
(1,947)	1:235:A:LYS:HG3	1:253:A:ASN:HB3	3	0.16
(1,947)	1:235:A:LYS:HG3	1:253:A:ASN:HB3	20	0.16
(1,885)	1:233:A:GLY:H	1:234:A:PHE:H	5	0.16
(1,885)	1:233:A:GLY:H	1:234:A:PHE:H	16	0.16
(1,866)	1:231:A:PHE:HB3	1:251:A:PHE:HD1	13	0.16
(1,866)	1:231:A:PHE:HB3	1:251:A:PHE:HD2	13	0.16
(1,866)	1:231:A:PHE:HB3	1:251:A:PHE:HD1	15	0.16
(1,866)	1:231:A:PHE:HB3	1:251:A:PHE:HD2	15	0.16
(1,811)	1:228:A:PHE:HD1	1:249:A:VAL:HB	4	0.16
(1,811)	1:228:A:PHE:HD2	1:249:A:VAL:HB	4	0.16
(1,811)	1:228:A:PHE:HD1	1:249:A:VAL:HB	5	0.16
(1,811)	1:228:A:PHE:HD2	1:249:A:VAL:HB	5	0.16
(1,811)	1:228:A:PHE:HD1	1:249:A:VAL:HB	6	0.16
(1,811)	1:228:A:PHE:HD2	1:249:A:VAL:HB	6	0.16
(1,811)	1:228:A:PHE:HD1	1:249:A:VAL:HB	12	0.16
(1,811)	1:228:A:PHE:HD2	1:249:A:VAL:HB	12	0.16
(1,811)	1:228:A:PHE:HD1	1:249:A:VAL:HB	14	0.16
(1,811)	1:228:A:PHE:HD2	1:249:A:VAL:HB	14	0.16
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD11	1	0.16
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD12	1	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD13	1	0.16
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD11	4	0.16
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD12	4	0.16
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD13	4	0.16
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD11	7	0.16
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD12	7	0.16
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD13	7	0.16
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD11	11	0.16
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD12	11	0.16
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD13	11	0.16
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD11	15	0.16
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD12	15	0.16
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD13	15	0.16
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD11	16	0.16
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD12	16	0.16
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD13	16	0.16
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD11	18	0.16
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD12	18	0.16
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD13	18	0.16
(1,691)	1:224:A:LEU:HB3	1:249:A:VAL:HG21	12	0.16
(1,691)	1:224:A:LEU:HB3	1:249:A:VAL:HG22	12	0.16
(1,691)	1:224:A:LEU:HB3	1:249:A:VAL:HG23	12	0.16
(1,684)	1:224:A:LEU:HB2	1:225:A:SER:H	2	0.16
(1,684)	1:224:A:LEU:HB2	1:225:A:SER:H	3	0.16
(1,684)	1:224:A:LEU:HB2	1:225:A:SER:H	5	0.16
(1,684)	1:224:A:LEU:HB2	1:225:A:SER:H	6	0.16
(1,684)	1:224:A:LEU:HB2	1:225:A:SER:H	7	0.16
(1,684)	1:224:A:LEU:HB2	1:225:A:SER:H	9	0.16
(1,684)	1:224:A:LEU:HB2	1:225:A:SER:H	14	0.16
(1,684)	1:224:A:LEU:HB2	1:225:A:SER:H	20	0.16
(1,635)	1:222:A:LEU:HG	1:223:A:MET:H	2	0.16
(1,615)	1:221:A:GLU:HG2	1:234:A:PHE:HZ	10	0.16
(1,586)	1:220:A:ASN:HD21	1:224:A:LEU:H	1	0.16
(1,586)	1:220:A:ASN:HD21	1:224:A:LEU:H	5	0.16
(1,586)	1:220:A:ASN:HD21	1:224:A:LEU:H	12	0.16
(1,586)	1:220:A:ASN:HD21	1:224:A:LEU:H	15	0.16
(1,586)	1:220:A:ASN:HD21	1:224:A:LEU:H	16	0.16
(1,586)	1:220:A:ASN:HD21	1:224:A:LEU:H	19	0.16
(1,541)	1:218:A:GLU:HA	1:219:A:THR:H	4	0.16
(1,541)	1:218:A:GLU:HA	1:219:A:THR:H	14	0.16
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG21	20	0.16
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG22	20	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,511)	1:216:A:PRO:HG3	1:219:A:THR:HG23	20	0.16
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG21	13	0.16
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG22	13	0.16
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG23	13	0.16
(1,346)	1:212:A:LEU:HD11	1:277:A:ILE:H	5	0.16
(1,346)	1:212:A:LEU:HD12	1:277:A:ILE:H	5	0.16
(1,346)	1:212:A:LEU:HD13	1:277:A:ILE:H	5	0.16
(1,346)	1:212:A:LEU:HD11	1:277:A:ILE:H	7	0.16
(1,346)	1:212:A:LEU:HD12	1:277:A:ILE:H	7	0.16
(1,346)	1:212:A:LEU:HD13	1:277:A:ILE:H	7	0.16
(1,346)	1:212:A:LEU:HD11	1:277:A:ILE:H	8	0.16
(1,346)	1:212:A:LEU:HD12	1:277:A:ILE:H	8	0.16
(1,346)	1:212:A:LEU:HD13	1:277:A:ILE:H	8	0.16
(1,346)	1:212:A:LEU:HD11	1:277:A:ILE:H	13	0.16
(1,346)	1:212:A:LEU:HD12	1:277:A:ILE:H	13	0.16
(1,346)	1:212:A:LEU:HD13	1:277:A:ILE:H	13	0.16
(1,346)	1:212:A:LEU:HD11	1:277:A:ILE:H	20	0.16
(1,346)	1:212:A:LEU:HD12	1:277:A:ILE:H	20	0.16
(1,346)	1:212:A:LEU:HD13	1:277:A:ILE:H	20	0.16
(1,316)	1:212:A:LEU:HA	1:276:A:LYS:HB3	18	0.16
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG21	4	0.16
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG22	4	0.16
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG23	4	0.16
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG21	4	0.16
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG22	4	0.16
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG23	4	0.16
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG21	6	0.16
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG22	6	0.16
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG23	6	0.16
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG21	6	0.16
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG22	6	0.16
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG23	6	0.16
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG21	8	0.16
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG22	8	0.16
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG23	8	0.16
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG21	8	0.16
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG22	8	0.16
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG23	8	0.16
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG21	14	0.16
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG22	14	0.16
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG23	14	0.16
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG21	14	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG22	14	0.16
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG23	14	0.16
(1,222)	1:210:A:LEU:HG	1:261:A:ARG:HG3	6	0.16
(1,183)	1:209:A:ILE:HG21	1:249:A:VAL:H	1	0.16
(1,183)	1:209:A:ILE:HG22	1:249:A:VAL:H	1	0.16
(1,183)	1:209:A:ILE:HG23	1:249:A:VAL:H	1	0.16
(1,167)	1:209:A:ILE:HD11	1:236:A:GLU:H	17	0.16
(1,167)	1:209:A:ILE:HD12	1:236:A:GLU:H	17	0.16
(1,167)	1:209:A:ILE:HD13	1:236:A:GLU:H	17	0.16
(1,157)	1:209:A:ILE:HG12	1:238:A:ARG:HB2	12	0.16
(1,157)	1:209:A:ILE:HG12	1:238:A:ARG:HB2	17	0.16
(1,123)	1:208:A:HIS:HA	1:257:A:ALA:H	2	0.16
(1,123)	1:208:A:HIS:HA	1:257:A:ALA:H	10	0.16
(1,123)	1:208:A:HIS:HA	1:257:A:ALA:H	18	0.16
(1,122)	1:208:A:HIS:HA	1:208:A:HIS:HD2	4	0.16
(1,122)	1:208:A:HIS:HA	1:208:A:HIS:HD2	8	0.16
(1,122)	1:208:A:HIS:HA	1:208:A:HIS:HD2	14	0.16
(1,122)	1:208:A:HIS:HA	1:208:A:HIS:HD2	19	0.16
(1,118)	1:207:A:ASN:HD22	1:282:A:LYS:H	6	0.16
(1,115)	1:207:A:ASN:HD22	1:248:A:PHE:HD1	11	0.16
(1,115)	1:207:A:ASN:HD22	1:248:A:PHE:HD2	11	0.16
(1,114)	1:207:A:ASN:HD22	1:210:A:LEU:H	15	0.16
(1,108)	1:207:A:ASN:HD21	1:282:A:LYS:HD2	19	0.16
(1,108)	1:207:A:ASN:HD21	1:282:A:LYS:HD3	19	0.16
(1,85)	1:205:A:PRO:HG2	1:281:A:LYS:HE2	5	0.16
(1,85)	1:205:A:PRO:HG2	1:281:A:LYS:HE3	5	0.16
(1,85)	1:205:A:PRO:HG3	1:281:A:LYS:HE2	5	0.16
(1,85)	1:205:A:PRO:HG3	1:281:A:LYS:HE3	5	0.16
(1,69)	1:204:A:ASN:HB2	1:205:A:PRO:HB2	8	0.16
(1,69)	1:204:A:ASN:HB2	1:205:A:PRO:HB3	8	0.16
(1,69)	1:204:A:ASN:HB3	1:205:A:PRO:HB2	8	0.16
(1,69)	1:204:A:ASN:HB3	1:205:A:PRO:HB3	8	0.16
(1,62)	1:204:A:ASN:HD21	1:281:A:LYS:HA	5	0.16
(2,53)	1:262:A:ASP:N	1:258:A:GLY:O	9	0.15
(2,53)	1:262:A:ASP:N	1:258:A:GLY:O	12	0.15
(2,50)	1:263:A:ALA:H	1:260:A:ALA:O	12	0.15
(2,48)	1:264:A:LEU:H	1:261:A:ARG:O	6	0.15
(2,48)	1:264:A:LEU:H	1:261:A:ARG:O	17	0.15
(2,28)	1:222:A:LEU:O	1:226:A:MET:H	7	0.15
(2,28)	1:222:A:LEU:O	1:226:A:MET:H	12	0.15
(2,28)	1:222:A:LEU:O	1:226:A:MET:H	14	0.15
(2,28)	1:222:A:LEU:O	1:226:A:MET:H	19	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,28)	1:222:A:LEU:O	1:226:A:MET:H	20	0.15
(2,22)	1:220:A:ASN:O	1:223:A:MET:H	3	0.15
(2,14)	1:236:A:GLU:H	1:250:A:GLU:O	8	0.15
(1,1526)	1:275:A:MET:H	1:276:A:LYS:H	3	0.15
(1,1526)	1:275:A:MET:H	1:276:A:LYS:H	17	0.15
(1,1503)	1:272:A:ASN:H	1:273:A:ASN:HD21	1	0.15
(1,1503)	1:272:A:ASN:H	1:273:A:ASN:HD22	1	0.15
(1,1503)	1:272:A:ASN:H	1:273:A:ASN:HD21	2	0.15
(1,1503)	1:272:A:ASN:H	1:273:A:ASN:HD22	2	0.15
(1,1503)	1:272:A:ASN:H	1:273:A:ASN:HD21	4	0.15
(1,1503)	1:272:A:ASN:H	1:273:A:ASN:HD22	4	0.15
(1,1456)	1:268:A:LYS:HD2	1:269:A:ILE:HA	5	0.15
(1,1456)	1:268:A:LYS:HD3	1:269:A:ILE:HA	5	0.15
(1,1456)	1:268:A:LYS:HD2	1:269:A:ILE:HA	10	0.15
(1,1456)	1:268:A:LYS:HD3	1:269:A:ILE:HA	10	0.15
(1,1456)	1:268:A:LYS:HD2	1:269:A:ILE:HA	18	0.15
(1,1456)	1:268:A:LYS:HD3	1:269:A:ILE:HA	18	0.15
(1,1342)	1:263:A:ALA:HB1	1:264:A:LEU:HB2	2	0.15
(1,1342)	1:263:A:ALA:HB1	1:264:A:LEU:HB3	2	0.15
(1,1342)	1:263:A:ALA:HB2	1:264:A:LEU:HB2	2	0.15
(1,1342)	1:263:A:ALA:HB2	1:264:A:LEU:HB3	2	0.15
(1,1342)	1:263:A:ALA:HB3	1:264:A:LEU:HB2	2	0.15
(1,1342)	1:263:A:ALA:HB3	1:264:A:LEU:HB3	2	0.15
(1,1342)	1:263:A:ALA:HB1	1:264:A:LEU:HB2	3	0.15
(1,1342)	1:263:A:ALA:HB1	1:264:A:LEU:HB3	3	0.15
(1,1342)	1:263:A:ALA:HB2	1:264:A:LEU:HB2	3	0.15
(1,1342)	1:263:A:ALA:HB2	1:264:A:LEU:HB3	3	0.15
(1,1342)	1:263:A:ALA:HB3	1:264:A:LEU:HB2	3	0.15
(1,1342)	1:263:A:ALA:HB3	1:264:A:LEU:HB3	3	0.15
(1,1342)	1:263:A:ALA:HB1	1:264:A:LEU:HB2	5	0.15
(1,1342)	1:263:A:ALA:HB1	1:264:A:LEU:HB3	5	0.15
(1,1342)	1:263:A:ALA:HB2	1:264:A:LEU:HB2	5	0.15
(1,1342)	1:263:A:ALA:HB2	1:264:A:LEU:HB3	5	0.15
(1,1342)	1:263:A:ALA:HB3	1:264:A:LEU:HB2	5	0.15
(1,1342)	1:263:A:ALA:HB3	1:264:A:LEU:HB3	5	0.15
(1,1342)	1:263:A:ALA:HB1	1:264:A:LEU:HB2	8	0.15
(1,1342)	1:263:A:ALA:HB1	1:264:A:LEU:HB3	8	0.15
(1,1342)	1:263:A:ALA:HB2	1:264:A:LEU:HB2	8	0.15
(1,1342)	1:263:A:ALA:HB2	1:264:A:LEU:HB3	8	0.15
(1,1342)	1:263:A:ALA:HB3	1:264:A:LEU:HB2	8	0.15
(1,1342)	1:263:A:ALA:HB3	1:264:A:LEU:HB3	8	0.15
(1,1342)	1:263:A:ALA:HB1	1:264:A:LEU:HB2	18	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1342)	1:263:A:ALA:HB1	1:264:A:LEU:HB3	18	0.15
(1,1342)	1:263:A:ALA:HB2	1:264:A:LEU:HB2	18	0.15
(1,1342)	1:263:A:ALA:HB2	1:264:A:LEU:HB3	18	0.15
(1,1342)	1:263:A:ALA:HB3	1:264:A:LEU:HB2	18	0.15
(1,1342)	1:263:A:ALA:HB3	1:264:A:LEU:HB3	18	0.15
(1,1338)	1:263:A:ALA:H	1:277:A:ILE:HB	1	0.15
(1,1338)	1:263:A:ALA:H	1:277:A:ILE:HB	16	0.15
(1,1301)	1:261:A:ARG:HB2	1:262:A:ASP:HB2	6	0.15
(1,1301)	1:261:A:ARG:HB2	1:262:A:ASP:HB3	6	0.15
(1,1301)	1:261:A:ARG:HB2	1:262:A:ASP:HB2	7	0.15
(1,1301)	1:261:A:ARG:HB2	1:262:A:ASP:HB3	7	0.15
(1,1301)	1:261:A:ARG:HB2	1:262:A:ASP:HB2	13	0.15
(1,1301)	1:261:A:ARG:HB2	1:262:A:ASP:HB3	13	0.15
(1,1229)	1:255:A:VAL:HG21	1:256:A:GLN:H	2	0.15
(1,1229)	1:255:A:VAL:HG22	1:256:A:GLN:H	2	0.15
(1,1229)	1:255:A:VAL:HG23	1:256:A:GLN:H	2	0.15
(1,1229)	1:255:A:VAL:HG21	1:256:A:GLN:H	4	0.15
(1,1229)	1:255:A:VAL:HG22	1:256:A:GLN:H	4	0.15
(1,1229)	1:255:A:VAL:HG23	1:256:A:GLN:H	4	0.15
(1,1229)	1:255:A:VAL:HG21	1:256:A:GLN:H	5	0.15
(1,1229)	1:255:A:VAL:HG22	1:256:A:GLN:H	5	0.15
(1,1229)	1:255:A:VAL:HG23	1:256:A:GLN:H	5	0.15
(1,1229)	1:255:A:VAL:HG21	1:256:A:GLN:H	6	0.15
(1,1229)	1:255:A:VAL:HG22	1:256:A:GLN:H	6	0.15
(1,1229)	1:255:A:VAL:HG23	1:256:A:GLN:H	6	0.15
(1,1229)	1:255:A:VAL:HG21	1:256:A:GLN:H	8	0.15
(1,1229)	1:255:A:VAL:HG22	1:256:A:GLN:H	8	0.15
(1,1229)	1:255:A:VAL:HG23	1:256:A:GLN:H	8	0.15
(1,1229)	1:255:A:VAL:HG21	1:256:A:GLN:H	9	0.15
(1,1229)	1:255:A:VAL:HG22	1:256:A:GLN:H	9	0.15
(1,1229)	1:255:A:VAL:HG23	1:256:A:GLN:H	9	0.15
(1,1229)	1:255:A:VAL:HG21	1:256:A:GLN:H	17	0.15
(1,1229)	1:255:A:VAL:HG22	1:256:A:GLN:H	17	0.15
(1,1229)	1:255:A:VAL:HG23	1:256:A:GLN:H	17	0.15
(1,1227)	1:255:A:VAL:HG11	1:257:A:ALA:H	4	0.15
(1,1227)	1:255:A:VAL:HG12	1:257:A:ALA:H	4	0.15
(1,1227)	1:255:A:VAL:HG13	1:257:A:ALA:H	4	0.15
(1,1227)	1:255:A:VAL:HG11	1:257:A:ALA:H	10	0.15
(1,1227)	1:255:A:VAL:HG12	1:257:A:ALA:H	10	0.15
(1,1227)	1:255:A:VAL:HG13	1:257:A:ALA:H	10	0.15
(1,1227)	1:255:A:VAL:HG11	1:257:A:ALA:H	12	0.15
(1,1227)	1:255:A:VAL:HG12	1:257:A:ALA:H	12	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1227)	1:255:A:VAL:HG13	1:257:A:ALA:H	12	0.15
(1,1227)	1:255:A:VAL:HG11	1:257:A:ALA:H	17	0.15
(1,1227)	1:255:A:VAL:HG12	1:257:A:ALA:H	17	0.15
(1,1227)	1:255:A:VAL:HG13	1:257:A:ALA:H	17	0.15
(1,1227)	1:255:A:VAL:HG11	1:257:A:ALA:H	20	0.15
(1,1227)	1:255:A:VAL:HG12	1:257:A:ALA:H	20	0.15
(1,1227)	1:255:A:VAL:HG13	1:257:A:ALA:H	20	0.15
(1,1196)	1:253:A:ASN:H	1:256:A:GLN:HA	4	0.15
(1,1196)	1:253:A:ASN:H	1:256:A:GLN:HA	8	0.15
(1,1196)	1:253:A:ASN:H	1:256:A:GLN:HA	15	0.15
(1,1175)	1:251:A:PHE:HD1	1:259:A:ALA:H	18	0.15
(1,1175)	1:251:A:PHE:HD2	1:259:A:ALA:H	18	0.15
(1,1156)	1:251:A:PHE:HA	1:260:A:ALA:HB1	12	0.15
(1,1156)	1:251:A:PHE:HA	1:260:A:ALA:HB2	12	0.15
(1,1156)	1:251:A:PHE:HA	1:260:A:ALA:HB3	12	0.15
(1,1143)	1:250:A:GLU:HA	1:251:A:PHE:HD1	3	0.15
(1,1143)	1:250:A:GLU:HA	1:251:A:PHE:HD2	3	0.15
(1,1143)	1:250:A:GLU:HA	1:251:A:PHE:HD1	17	0.15
(1,1143)	1:250:A:GLU:HA	1:251:A:PHE:HD2	17	0.15
(1,1083)	1:245:A:ASP:HA	1:273:A:ASN:HB3	9	0.15
(1,1045)	1:240:A:VAL:HB	1:247:A:ALA:HB1	2	0.15
(1,1045)	1:240:A:VAL:HB	1:247:A:ALA:HB2	2	0.15
(1,1045)	1:240:A:VAL:HB	1:247:A:ALA:HB3	2	0.15
(1,1008)	1:238:A:ARG:HD2	1:248:A:PHE:HB2	5	0.15
(1,1008)	1:238:A:ARG:HD2	1:248:A:PHE:HB2	14	0.15
(1,1008)	1:238:A:ARG:HD2	1:248:A:PHE:HB2	15	0.15
(1,944)	1:235:A:LYS:HB3	1:236:A:GLU:HG2	2	0.15
(1,944)	1:235:A:LYS:HB3	1:236:A:GLU:HG3	2	0.15
(1,936)	1:235:A:LYS:HB2	1:236:A:GLU:H	1	0.15
(1,936)	1:235:A:LYS:HB2	1:236:A:GLU:H	6	0.15
(1,933)	1:235:A:LYS:H	1:252:A:ASP:H	17	0.15
(1,933)	1:235:A:LYS:H	1:252:A:ASP:H	19	0.15
(1,926)	1:235:A:LYS:H	1:235:A:LYS:HG2	1	0.15
(1,926)	1:235:A:LYS:H	1:235:A:LYS:HG3	1	0.15
(1,926)	1:235:A:LYS:H	1:235:A:LYS:HG2	12	0.15
(1,926)	1:235:A:LYS:H	1:235:A:LYS:HG3	12	0.15
(1,885)	1:233:A:GLY:H	1:234:A:PHE:H	2	0.15
(1,885)	1:233:A:GLY:H	1:234:A:PHE:H	6	0.15
(1,885)	1:233:A:GLY:H	1:234:A:PHE:H	8	0.15
(1,885)	1:233:A:GLY:H	1:234:A:PHE:H	14	0.15
(1,885)	1:233:A:GLY:H	1:234:A:PHE:H	15	0.15
(1,866)	1:231:A:PHE:HB3	1:251:A:PHE:HD1	5	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,866)	1:231:A:PHE:HB3	1:251:A:PHE:HD2	5	0.15
(1,808)	1:228:A:PHE:HD1	1:229:A:ASN:H	20	0.15
(1,808)	1:228:A:PHE:HD2	1:229:A:ASN:H	20	0.15
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD11	2	0.15
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD12	2	0.15
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD13	2	0.15
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD11	8	0.15
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD12	8	0.15
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD13	8	0.15
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD11	14	0.15
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD12	14	0.15
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD13	14	0.15
(1,684)	1:224:A:LEU:HB2	1:225:A:SER:H	4	0.15
(1,684)	1:224:A:LEU:HB2	1:225:A:SER:H	16	0.15
(1,618)	1:221:A:GLU:HG2	1:239:A:LEU:H	5	0.15
(1,618)	1:221:A:GLU:HG2	1:239:A:LEU:H	10	0.15
(1,615)	1:221:A:GLU:HG2	1:234:A:PHE:HZ	14	0.15
(1,615)	1:221:A:GLU:HG2	1:234:A:PHE:HZ	18	0.15
(1,541)	1:218:A:GLU:HA	1:219:A:THR:H	5	0.15
(1,532)	1:217:A:GLU:HG2	1:270:A:THR:HG21	17	0.15
(1,532)	1:217:A:GLU:HG2	1:270:A:THR:HG22	17	0.15
(1,532)	1:217:A:GLU:HG2	1:270:A:THR:HG23	17	0.15
(1,532)	1:217:A:GLU:HG3	1:270:A:THR:HG21	17	0.15
(1,532)	1:217:A:GLU:HG3	1:270:A:THR:HG22	17	0.15
(1,532)	1:217:A:GLU:HG3	1:270:A:THR:HG23	17	0.15
(1,403)	1:214:A:ASN:HB2	1:276:A:LYS:H	11	0.15
(1,346)	1:212:A:LEU:HD11	1:277:A:ILE:H	4	0.15
(1,346)	1:212:A:LEU:HD12	1:277:A:ILE:H	4	0.15
(1,346)	1:212:A:LEU:HD13	1:277:A:ILE:H	4	0.15
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG21	18	0.15
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG22	18	0.15
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG23	18	0.15
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG21	18	0.15
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG22	18	0.15
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG23	18	0.15
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG21	18	0.15
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG22	18	0.15
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG23	18	0.15
(1,316)	1:212:A:LEU:HA	1:276:A:LYS:HB3	3	0.15
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG21	5	0.15
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG22	5	0.15
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG23	5	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG21	5	0.15
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG22	5	0.15
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG23	5	0.15
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG21	12	0.15
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG22	12	0.15
(1,284)	1:211:A:PHE:HD1	1:213:A:THR:HG23	12	0.15
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG21	12	0.15
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG22	12	0.15
(1,284)	1:211:A:PHE:HD2	1:213:A:THR:HG23	12	0.15
(1,218)	1:210:A:LEU:HG	1:261:A:ARG:H	20	0.15
(1,183)	1:209:A:ILE:HG21	1:249:A:VAL:H	4	0.15
(1,183)	1:209:A:ILE:HG22	1:249:A:VAL:H	4	0.15
(1,183)	1:209:A:ILE:HG23	1:249:A:VAL:H	4	0.15
(1,183)	1:209:A:ILE:HG21	1:249:A:VAL:H	7	0.15
(1,183)	1:209:A:ILE:HG22	1:249:A:VAL:H	7	0.15
(1,183)	1:209:A:ILE:HG23	1:249:A:VAL:H	7	0.15
(1,183)	1:209:A:ILE:HG21	1:249:A:VAL:H	16	0.15
(1,183)	1:209:A:ILE:HG22	1:249:A:VAL:H	16	0.15
(1,183)	1:209:A:ILE:HG23	1:249:A:VAL:H	16	0.15
(1,183)	1:209:A:ILE:HG21	1:249:A:VAL:H	17	0.15
(1,183)	1:209:A:ILE:HG22	1:249:A:VAL:H	17	0.15
(1,183)	1:209:A:ILE:HG23	1:249:A:VAL:H	17	0.15
(1,168)	1:209:A:ILE:HD11	1:237:A:VAL:H	10	0.15
(1,168)	1:209:A:ILE:HD12	1:237:A:VAL:H	10	0.15
(1,168)	1:209:A:ILE:HD13	1:237:A:VAL:H	10	0.15
(1,167)	1:209:A:ILE:HD11	1:236:A:GLU:H	4	0.15
(1,167)	1:209:A:ILE:HD12	1:236:A:GLU:H	4	0.15
(1,167)	1:209:A:ILE:HD13	1:236:A:GLU:H	4	0.15
(1,167)	1:209:A:ILE:HD11	1:236:A:GLU:H	14	0.15
(1,167)	1:209:A:ILE:HD12	1:236:A:GLU:H	14	0.15
(1,167)	1:209:A:ILE:HD13	1:236:A:GLU:H	14	0.15
(1,157)	1:209:A:ILE:HG12	1:238:A:ARG:HB2	1	0.15
(1,157)	1:209:A:ILE:HG12	1:238:A:ARG:HB2	8	0.15
(1,157)	1:209:A:ILE:HG12	1:238:A:ARG:HB2	10	0.15
(1,123)	1:208:A:HIS:HA	1:257:A:ALA:H	1	0.15
(1,122)	1:208:A:HIS:HA	1:208:A:HIS:HD2	2	0.15
(1,122)	1:208:A:HIS:HA	1:208:A:HIS:HD2	3	0.15
(1,122)	1:208:A:HIS:HA	1:208:A:HIS:HD2	12	0.15
(1,122)	1:208:A:HIS:HA	1:208:A:HIS:HD2	13	0.15
(1,122)	1:208:A:HIS:HA	1:208:A:HIS:HD2	16	0.15
(1,122)	1:208:A:HIS:HA	1:208:A:HIS:HD2	17	0.15
(1,122)	1:208:A:HIS:HA	1:208:A:HIS:HD2	20	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,118)	1:207:A:ASN:HD22	1:282:A:LYS:H	10	0.15
(1,116)	1:207:A:ASN:HD22	1:280:A:ALA:H	2	0.15
(1,116)	1:207:A:ASN:HD22	1:280:A:ALA:H	4	0.15
(1,114)	1:207:A:ASN:HD22	1:210:A:LEU:H	2	0.15
(1,114)	1:207:A:ASN:HD22	1:210:A:LEU:H	17	0.15
(1,108)	1:207:A:ASN:HD21	1:282:A:LYS:HD2	1	0.15
(1,108)	1:207:A:ASN:HD21	1:282:A:LYS:HD3	1	0.15
(1,108)	1:207:A:ASN:HD21	1:282:A:LYS:HD2	20	0.15
(1,108)	1:207:A:ASN:HD21	1:282:A:LYS:HD3	20	0.15
(1,106)	1:207:A:ASN:HD21	1:282:A:LYS:HA	5	0.15
(1,106)	1:207:A:ASN:HD21	1:282:A:LYS:HA	13	0.15
(1,71)	1:204:A:ASN:HB2	1:279:A:PHE:HB3	12	0.15
(1,71)	1:204:A:ASN:HB3	1:279:A:PHE:HB3	12	0.15
(1,62)	1:204:A:ASN:HD21	1:281:A:LYS:HA	18	0.15
(1,46)	1:200:A:PRO:HG2	1:201:A:LEU:HB2	16	0.15
(1,46)	1:200:A:PRO:HG2	1:201:A:LEU:HB3	16	0.15
(1,46)	1:200:A:PRO:HG3	1:201:A:LEU:HB2	16	0.15
(1,46)	1:200:A:PRO:HG3	1:201:A:LEU:HB3	16	0.15
(1,16)	1:193:A:GLY:HA2	1:195:A:MET:HA	4	0.15
(1,16)	1:193:A:GLY:HA3	1:195:A:MET:HA	4	0.15
(2,48)	1:264:A:LEU:H	1:261:A:ARG:O	12	0.14
(2,42)	1:228:A:PHE:H	1:225:A:SER:O	10	0.14
(2,42)	1:228:A:PHE:H	1:225:A:SER:O	11	0.14
(2,38)	1:227:A:LEU:H	1:224:A:LEU:O	12	0.14
(2,28)	1:222:A:LEU:O	1:226:A:MET:H	17	0.14
(2,22)	1:220:A:ASN:O	1:223:A:MET:H	2	0.14
(2,22)	1:220:A:ASN:O	1:223:A:MET:H	5	0.14
(2,22)	1:220:A:ASN:O	1:223:A:MET:H	9	0.14
(2,22)	1:220:A:ASN:O	1:223:A:MET:H	10	0.14
(2,10)	1:214:A:ASN:H	1:245:A:ASP:O	15	0.14
(1,1582)	1:281:A:LYS:HA	1:281:A:LYS:HD2	10	0.14
(1,1582)	1:281:A:LYS:HA	1:281:A:LYS:HD3	10	0.14
(1,1563)	1:278:A:SER:H	1:280:A:ALA:H	2	0.14
(1,1563)	1:278:A:SER:H	1:280:A:ALA:H	12	0.14
(1,1526)	1:275:A:MET:H	1:276:A:LYS:H	9	0.14
(1,1526)	1:275:A:MET:H	1:276:A:LYS:H	18	0.14
(1,1522)	1:274:A:ALA:HB1	1:276:A:LYS:HD2	18	0.14
(1,1522)	1:274:A:ALA:HB1	1:276:A:LYS:HD3	18	0.14
(1,1522)	1:274:A:ALA:HB2	1:276:A:LYS:HD2	18	0.14
(1,1522)	1:274:A:ALA:HB2	1:276:A:LYS:HD3	18	0.14
(1,1522)	1:274:A:ALA:HB3	1:276:A:LYS:HD2	18	0.14
(1,1522)	1:274:A:ALA:HB3	1:276:A:LYS:HD3	18	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1503)	1:272:A:ASN:H	1:273:A:ASN:HD21	5	0.14
(1,1503)	1:272:A:ASN:H	1:273:A:ASN:HD22	5	0.14
(1,1456)	1:268:A:LYS:HD2	1:269:A:ILE:HA	6	0.14
(1,1456)	1:268:A:LYS:HD3	1:269:A:ILE:HA	6	0.14
(1,1456)	1:268:A:LYS:HD2	1:269:A:ILE:HA	13	0.14
(1,1456)	1:268:A:LYS:HD3	1:269:A:ILE:HA	13	0.14
(1,1456)	1:268:A:LYS:HD2	1:269:A:ILE:HA	14	0.14
(1,1456)	1:268:A:LYS:HD3	1:269:A:ILE:HA	14	0.14
(1,1456)	1:268:A:LYS:HD2	1:269:A:ILE:HA	17	0.14
(1,1456)	1:268:A:LYS:HD3	1:269:A:ILE:HA	17	0.14
(1,1369)	1:265:A:GLN:H	1:265:A:GLN:HE21	1	0.14
(1,1369)	1:265:A:GLN:H	1:265:A:GLN:HE21	4	0.14
(1,1369)	1:265:A:GLN:H	1:265:A:GLN:HE21	16	0.14
(1,1342)	1:263:A:ALA:HB1	1:264:A:LEU:HB2	1	0.14
(1,1342)	1:263:A:ALA:HB1	1:264:A:LEU:HB3	1	0.14
(1,1342)	1:263:A:ALA:HB2	1:264:A:LEU:HB2	1	0.14
(1,1342)	1:263:A:ALA:HB2	1:264:A:LEU:HB3	1	0.14
(1,1342)	1:263:A:ALA:HB3	1:264:A:LEU:HB2	1	0.14
(1,1342)	1:263:A:ALA:HB3	1:264:A:LEU:HB3	1	0.14
(1,1342)	1:263:A:ALA:HB1	1:264:A:LEU:HB2	4	0.14
(1,1342)	1:263:A:ALA:HB1	1:264:A:LEU:HB3	4	0.14
(1,1342)	1:263:A:ALA:HB2	1:264:A:LEU:HB2	4	0.14
(1,1342)	1:263:A:ALA:HB2	1:264:A:LEU:HB3	4	0.14
(1,1342)	1:263:A:ALA:HB3	1:264:A:LEU:HB2	4	0.14
(1,1342)	1:263:A:ALA:HB3	1:264:A:LEU:HB3	4	0.14
(1,1342)	1:263:A:ALA:HB1	1:264:A:LEU:HB2	6	0.14
(1,1342)	1:263:A:ALA:HB1	1:264:A:LEU:HB3	6	0.14
(1,1342)	1:263:A:ALA:HB2	1:264:A:LEU:HB2	6	0.14
(1,1342)	1:263:A:ALA:HB2	1:264:A:LEU:HB3	6	0.14
(1,1342)	1:263:A:ALA:HB3	1:264:A:LEU:HB2	6	0.14
(1,1342)	1:263:A:ALA:HB3	1:264:A:LEU:HB3	6	0.14
(1,1342)	1:263:A:ALA:HB1	1:264:A:LEU:HB2	7	0.14
(1,1342)	1:263:A:ALA:HB1	1:264:A:LEU:HB3	7	0.14
(1,1342)	1:263:A:ALA:HB2	1:264:A:LEU:HB2	7	0.14
(1,1342)	1:263:A:ALA:HB2	1:264:A:LEU:HB3	7	0.14
(1,1342)	1:263:A:ALA:HB3	1:264:A:LEU:HB2	7	0.14
(1,1342)	1:263:A:ALA:HB3	1:264:A:LEU:HB3	7	0.14
(1,1342)	1:263:A:ALA:HB1	1:264:A:LEU:HB2	10	0.14
(1,1342)	1:263:A:ALA:HB1	1:264:A:LEU:HB3	10	0.14
(1,1342)	1:263:A:ALA:HB2	1:264:A:LEU:HB2	10	0.14
(1,1342)	1:263:A:ALA:HB2	1:264:A:LEU:HB3	10	0.14
(1,1342)	1:263:A:ALA:HB3	1:264:A:LEU:HB2	10	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1342)	1:263:A:ALA:HB3	1:264:A:LEU:HB3	10	0.14
(1,1342)	1:263:A:ALA:HB1	1:264:A:LEU:HB2	11	0.14
(1,1342)	1:263:A:ALA:HB1	1:264:A:LEU:HB3	11	0.14
(1,1342)	1:263:A:ALA:HB2	1:264:A:LEU:HB2	11	0.14
(1,1342)	1:263:A:ALA:HB2	1:264:A:LEU:HB3	11	0.14
(1,1342)	1:263:A:ALA:HB3	1:264:A:LEU:HB2	11	0.14
(1,1342)	1:263:A:ALA:HB3	1:264:A:LEU:HB3	11	0.14
(1,1342)	1:263:A:ALA:HB1	1:264:A:LEU:HB2	16	0.14
(1,1342)	1:263:A:ALA:HB1	1:264:A:LEU:HB3	16	0.14
(1,1342)	1:263:A:ALA:HB2	1:264:A:LEU:HB2	16	0.14
(1,1342)	1:263:A:ALA:HB2	1:264:A:LEU:HB3	16	0.14
(1,1342)	1:263:A:ALA:HB3	1:264:A:LEU:HB2	16	0.14
(1,1342)	1:263:A:ALA:HB3	1:264:A:LEU:HB3	16	0.14
(1,1307)	1:261:A:ARG:HD2	1:262:A:ASP:H	1	0.14
(1,1307)	1:261:A:ARG:HD2	1:262:A:ASP:H	16	0.14
(1,1307)	1:261:A:ARG:HD2	1:262:A:ASP:H	18	0.14
(1,1301)	1:261:A:ARG:HB2	1:262:A:ASP:HB2	8	0.14
(1,1301)	1:261:A:ARG:HB2	1:262:A:ASP:HB3	8	0.14
(1,1301)	1:261:A:ARG:HB2	1:262:A:ASP:HB2	11	0.14
(1,1301)	1:261:A:ARG:HB2	1:262:A:ASP:HB3	11	0.14
(1,1301)	1:261:A:ARG:HB2	1:262:A:ASP:HB2	12	0.14
(1,1301)	1:261:A:ARG:HB2	1:262:A:ASP:HB3	12	0.14
(1,1301)	1:261:A:ARG:HB2	1:262:A:ASP:HB2	17	0.14
(1,1301)	1:261:A:ARG:HB2	1:262:A:ASP:HB3	17	0.14
(1,1301)	1:261:A:ARG:HB2	1:262:A:ASP:HB2	19	0.14
(1,1301)	1:261:A:ARG:HB2	1:262:A:ASP:HB3	19	0.14
(1,1229)	1:255:A:VAL:HG21	1:256:A:GLN:H	7	0.14
(1,1229)	1:255:A:VAL:HG22	1:256:A:GLN:H	7	0.14
(1,1229)	1:255:A:VAL:HG23	1:256:A:GLN:H	7	0.14
(1,1229)	1:255:A:VAL:HG21	1:256:A:GLN:H	10	0.14
(1,1229)	1:255:A:VAL:HG22	1:256:A:GLN:H	10	0.14
(1,1229)	1:255:A:VAL:HG23	1:256:A:GLN:H	10	0.14
(1,1229)	1:255:A:VAL:HG21	1:256:A:GLN:H	11	0.14
(1,1229)	1:255:A:VAL:HG22	1:256:A:GLN:H	11	0.14
(1,1229)	1:255:A:VAL:HG23	1:256:A:GLN:H	11	0.14
(1,1229)	1:255:A:VAL:HG21	1:256:A:GLN:H	13	0.14
(1,1229)	1:255:A:VAL:HG22	1:256:A:GLN:H	13	0.14
(1,1229)	1:255:A:VAL:HG23	1:256:A:GLN:H	13	0.14
(1,1229)	1:255:A:VAL:HG21	1:256:A:GLN:H	15	0.14
(1,1229)	1:255:A:VAL:HG22	1:256:A:GLN:H	15	0.14
(1,1229)	1:255:A:VAL:HG23	1:256:A:GLN:H	15	0.14
(1,1229)	1:255:A:VAL:HG21	1:256:A:GLN:H	20	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1229)	1:255:A:VAL:HG22	1:256:A:GLN:H	20	0.14
(1,1229)	1:255:A:VAL:HG23	1:256:A:GLN:H	20	0.14
(1,1227)	1:255:A:VAL:HG11	1:257:A:ALA:H	19	0.14
(1,1227)	1:255:A:VAL:HG12	1:257:A:ALA:H	19	0.14
(1,1227)	1:255:A:VAL:HG13	1:257:A:ALA:H	19	0.14
(1,1196)	1:253:A:ASN:H	1:256:A:GLN:HA	6	0.14
(1,1196)	1:253:A:ASN:H	1:256:A:GLN:HA	19	0.14
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB1	2	0.14
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB2	2	0.14
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB3	2	0.14
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB1	2	0.14
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB2	2	0.14
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB3	2	0.14
(1,1143)	1:250:A:GLU:HA	1:251:A:PHE:HD1	1	0.14
(1,1143)	1:250:A:GLU:HA	1:251:A:PHE:HD2	1	0.14
(1,1143)	1:250:A:GLU:HA	1:251:A:PHE:HD1	20	0.14
(1,1143)	1:250:A:GLU:HA	1:251:A:PHE:HD2	20	0.14
(1,1083)	1:245:A:ASP:HA	1:273:A:ASN:HB3	6	0.14
(1,1047)	1:240:A:VAL:HG11	1:246:A:ILE:HB	11	0.14
(1,1047)	1:240:A:VAL:HG12	1:246:A:ILE:HB	11	0.14
(1,1047)	1:240:A:VAL:HG13	1:246:A:ILE:HB	11	0.14
(1,1008)	1:238:A:ARG:HD2	1:248:A:PHE:HB2	12	0.14
(1,970)	1:237:A:VAL:HB	1:250:A:GLU:H	4	0.14
(1,947)	1:235:A:LYS:HG3	1:253:A:ASN:HB3	14	0.14
(1,947)	1:235:A:LYS:HG3	1:253:A:ASN:HB3	17	0.14
(1,944)	1:235:A:LYS:HB3	1:236:A:GLU:HG2	19	0.14
(1,944)	1:235:A:LYS:HB3	1:236:A:GLU:HG3	19	0.14
(1,926)	1:235:A:LYS:H	1:235:A:LYS:HG2	2	0.14
(1,926)	1:235:A:LYS:H	1:235:A:LYS:HG3	2	0.14
(1,926)	1:235:A:LYS:H	1:235:A:LYS:HG2	9	0.14
(1,926)	1:235:A:LYS:H	1:235:A:LYS:HG3	9	0.14
(1,926)	1:235:A:LYS:H	1:235:A:LYS:HG2	11	0.14
(1,926)	1:235:A:LYS:H	1:235:A:LYS:HG3	11	0.14
(1,926)	1:235:A:LYS:H	1:235:A:LYS:HG2	15	0.14
(1,926)	1:235:A:LYS:H	1:235:A:LYS:HG3	15	0.14
(1,885)	1:233:A:GLY:H	1:234:A:PHE:H	18	0.14
(1,880)	1:232:A:PRO:HA	1:233:A:GLY:H	20	0.14
(1,866)	1:231:A:PHE:HB3	1:251:A:PHE:HD1	3	0.14
(1,866)	1:231:A:PHE:HB3	1:251:A:PHE:HD2	3	0.14
(1,866)	1:231:A:PHE:HB3	1:251:A:PHE:HD1	4	0.14
(1,866)	1:231:A:PHE:HB3	1:251:A:PHE:HD2	4	0.14
(1,866)	1:231:A:PHE:HB3	1:251:A:PHE:HD1	11	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,866)	1:231:A:PHE:HB3	1:251:A:PHE:HD2	11	0.14
(1,811)	1:228:A:PHE:HD1	1:249:A:VAL:HB	13	0.14
(1,811)	1:228:A:PHE:HD2	1:249:A:VAL:HB	13	0.14
(1,808)	1:228:A:PHE:HD1	1:229:A:ASN:H	7	0.14
(1,808)	1:228:A:PHE:HD2	1:229:A:ASN:H	7	0.14
(1,808)	1:228:A:PHE:HD1	1:229:A:ASN:H	11	0.14
(1,808)	1:228:A:PHE:HD2	1:229:A:ASN:H	11	0.14
(1,808)	1:228:A:PHE:HD1	1:229:A:ASN:H	17	0.14
(1,808)	1:228:A:PHE:HD2	1:229:A:ASN:H	17	0.14
(1,773)	1:227:A:LEU:HD11	1:269:A:ILE:HG21	9	0.14
(1,773)	1:227:A:LEU:HD11	1:269:A:ILE:HG22	9	0.14
(1,773)	1:227:A:LEU:HD11	1:269:A:ILE:HG23	9	0.14
(1,773)	1:227:A:LEU:HD12	1:269:A:ILE:HG21	9	0.14
(1,773)	1:227:A:LEU:HD12	1:269:A:ILE:HG22	9	0.14
(1,773)	1:227:A:LEU:HD12	1:269:A:ILE:HG23	9	0.14
(1,773)	1:227:A:LEU:HD13	1:269:A:ILE:HG21	9	0.14
(1,773)	1:227:A:LEU:HD13	1:269:A:ILE:HG22	9	0.14
(1,773)	1:227:A:LEU:HD13	1:269:A:ILE:HG23	9	0.14
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD11	10	0.14
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD12	10	0.14
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD13	10	0.14
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD11	13	0.14
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD12	13	0.14
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD13	13	0.14
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD11	17	0.14
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD12	17	0.14
(1,761)	1:227:A:LEU:HB3	1:264:A:LEU:HD13	17	0.14
(1,656)	1:223:A:MET:HB2	1:224:A:LEU:H	7	0.14
(1,656)	1:223:A:MET:HB2	1:224:A:LEU:H	9	0.14
(1,656)	1:223:A:MET:HB2	1:224:A:LEU:H	10	0.14
(1,656)	1:223:A:MET:HB2	1:224:A:LEU:H	11	0.14
(1,656)	1:223:A:MET:HB2	1:224:A:LEU:H	13	0.14
(1,656)	1:223:A:MET:HB2	1:224:A:LEU:H	17	0.14
(1,656)	1:223:A:MET:HB2	1:224:A:LEU:H	20	0.14
(1,635)	1:222:A:LEU:HG	1:223:A:MET:H	17	0.14
(1,622)	1:221:A:GLU:HG3	1:239:A:LEU:H	7	0.14
(1,622)	1:221:A:GLU:HG3	1:239:A:LEU:H	16	0.14
(1,615)	1:221:A:GLU:HG2	1:234:A:PHE:HZ	3	0.14
(1,615)	1:221:A:GLU:HG2	1:234:A:PHE:HZ	4	0.14
(1,613)	1:221:A:GLU:HB3	1:239:A:LEU:HD21	9	0.14
(1,613)	1:221:A:GLU:HB3	1:239:A:LEU:HD22	9	0.14
(1,613)	1:221:A:GLU:HB3	1:239:A:LEU:HD23	9	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,613)	1:221:A:GLU:HB3	1:239:A:LEU:HD21	18	0.14
(1,613)	1:221:A:GLU:HB3	1:239:A:LEU:HD22	18	0.14
(1,613)	1:221:A:GLU:HB3	1:239:A:LEU:HD23	18	0.14
(1,403)	1:214:A:ASN:HB2	1:276:A:LYS:H	2	0.14
(1,403)	1:214:A:ASN:HB2	1:276:A:LYS:H	7	0.14
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG21	3	0.14
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG22	3	0.14
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG23	3	0.14
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG21	18	0.14
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG22	18	0.14
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG23	18	0.14
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG21	1	0.14
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG22	1	0.14
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG23	1	0.14
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG21	1	0.14
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG22	1	0.14
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG23	1	0.14
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG21	1	0.14
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG22	1	0.14
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG23	1	0.14
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG21	3	0.14
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG22	3	0.14
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG23	3	0.14
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG21	3	0.14
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG22	3	0.14
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG23	3	0.14
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG21	3	0.14
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG22	3	0.14
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG23	3	0.14
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG21	9	0.14
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG22	9	0.14
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG23	9	0.14
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG21	9	0.14
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG22	9	0.14
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG23	9	0.14
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG21	9	0.14
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG22	9	0.14
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG23	9	0.14
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG21	16	0.14
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG22	16	0.14
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG23	16	0.14
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG21	16	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG22	16	0.14
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG23	16	0.14
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG21	16	0.14
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG22	16	0.14
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG23	16	0.14
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG21	17	0.14
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG22	17	0.14
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG23	17	0.14
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG21	17	0.14
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG22	17	0.14
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG23	17	0.14
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG21	17	0.14
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG22	17	0.14
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG23	17	0.14
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG21	20	0.14
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG22	20	0.14
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG23	20	0.14
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG21	20	0.14
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG22	20	0.14
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG23	20	0.14
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG21	20	0.14
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG22	20	0.14
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG23	20	0.14
(1,278)	1:211:A:PHE:HZ	1:213:A:THR:HB	1	0.14
(1,218)	1:210:A:LEU:HG	1:261:A:ARG:H	10	0.14
(1,183)	1:209:A:ILE:HG21	1:249:A:VAL:H	10	0.14
(1,183)	1:209:A:ILE:HG22	1:249:A:VAL:H	10	0.14
(1,183)	1:209:A:ILE:HG23	1:249:A:VAL:H	10	0.14
(1,183)	1:209:A:ILE:HG21	1:249:A:VAL:H	11	0.14
(1,183)	1:209:A:ILE:HG22	1:249:A:VAL:H	11	0.14
(1,183)	1:209:A:ILE:HG23	1:249:A:VAL:H	11	0.14
(1,183)	1:209:A:ILE:HG21	1:249:A:VAL:H	14	0.14
(1,183)	1:209:A:ILE:HG22	1:249:A:VAL:H	14	0.14
(1,183)	1:209:A:ILE:HG23	1:249:A:VAL:H	14	0.14
(1,183)	1:209:A:ILE:HG21	1:249:A:VAL:H	18	0.14
(1,183)	1:209:A:ILE:HG22	1:249:A:VAL:H	18	0.14
(1,183)	1:209:A:ILE:HG23	1:249:A:VAL:H	18	0.14
(1,183)	1:209:A:ILE:HG21	1:249:A:VAL:H	20	0.14
(1,183)	1:209:A:ILE:HG22	1:249:A:VAL:H	20	0.14
(1,183)	1:209:A:ILE:HG23	1:249:A:VAL:H	20	0.14
(1,167)	1:209:A:ILE:HD11	1:236:A:GLU:H	19	0.14
(1,167)	1:209:A:ILE:HD12	1:236:A:GLU:H	19	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,167)	1:209:A:ILE:HD13	1:236:A:GLU:H	19	0.14
(1,157)	1:209:A:ILE:HG12	1:238:A:ARG:HB2	4	0.14
(1,157)	1:209:A:ILE:HG12	1:238:A:ARG:HB2	18	0.14
(1,123)	1:208:A:HIS:HA	1:257:A:ALA:H	9	0.14
(1,122)	1:208:A:HIS:HA	1:208:A:HIS:HD2	1	0.14
(1,122)	1:208:A:HIS:HA	1:208:A:HIS:HD2	6	0.14
(1,122)	1:208:A:HIS:HA	1:208:A:HIS:HD2	7	0.14
(1,122)	1:208:A:HIS:HA	1:208:A:HIS:HD2	9	0.14
(1,122)	1:208:A:HIS:HA	1:208:A:HIS:HD2	11	0.14
(1,114)	1:207:A:ASN:HD22	1:210:A:LEU:H	1	0.14
(1,114)	1:207:A:ASN:HD22	1:210:A:LEU:H	19	0.14
(1,114)	1:207:A:ASN:HD22	1:210:A:LEU:H	20	0.14
(1,108)	1:207:A:ASN:HD21	1:282:A:LYS:HD2	15	0.14
(1,108)	1:207:A:ASN:HD21	1:282:A:LYS:HD3	15	0.14
(1,100)	1:207:A:ASN:HB2	1:209:A:ILE:HD11	12	0.14
(1,100)	1:207:A:ASN:HB2	1:209:A:ILE:HD12	12	0.14
(1,100)	1:207:A:ASN:HB2	1:209:A:ILE:HD13	12	0.14
(1,82)	1:205:A:PRO:HB2	1:281:A:LYS:HG2	1	0.14
(1,82)	1:205:A:PRO:HB2	1:281:A:LYS:HG3	1	0.14
(1,82)	1:205:A:PRO:HB3	1:281:A:LYS:HG2	1	0.14
(1,82)	1:205:A:PRO:HB3	1:281:A:LYS:HG3	1	0.14
(1,82)	1:205:A:PRO:HB2	1:281:A:LYS:HG2	13	0.14
(1,82)	1:205:A:PRO:HB2	1:281:A:LYS:HG3	13	0.14
(1,82)	1:205:A:PRO:HB3	1:281:A:LYS:HG2	13	0.14
(1,82)	1:205:A:PRO:HB3	1:281:A:LYS:HG3	13	0.14
(1,39)	1:198:A:ALA:HB1	1:199:A:GLN:HB2	6	0.14
(1,39)	1:198:A:ALA:HB1	1:199:A:GLN:HB3	6	0.14
(1,39)	1:198:A:ALA:HB2	1:199:A:GLN:HB2	6	0.14
(1,39)	1:198:A:ALA:HB2	1:199:A:GLN:HB3	6	0.14
(1,39)	1:198:A:ALA:HB3	1:199:A:GLN:HB2	6	0.14
(1,39)	1:198:A:ALA:HB3	1:199:A:GLN:HB3	6	0.14
(2,42)	1:228:A:PHE:H	1:225:A:SER:O	6	0.13
(2,42)	1:228:A:PHE:H	1:225:A:SER:O	7	0.13
(2,42)	1:228:A:PHE:H	1:225:A:SER:O	8	0.13
(2,42)	1:228:A:PHE:H	1:225:A:SER:O	9	0.13
(2,42)	1:228:A:PHE:H	1:225:A:SER:O	12	0.13
(2,42)	1:228:A:PHE:H	1:225:A:SER:O	14	0.13
(2,42)	1:228:A:PHE:H	1:225:A:SER:O	17	0.13
(2,42)	1:228:A:PHE:H	1:225:A:SER:O	20	0.13
(2,38)	1:227:A:LEU:H	1:224:A:LEU:O	1	0.13
(2,38)	1:227:A:LEU:H	1:224:A:LEU:O	5	0.13
(2,38)	1:227:A:LEU:H	1:224:A:LEU:O	9	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,38)	1:227:A:LEU:H	1:224:A:LEU:O	18	0.13
(2,28)	1:222:A:LEU:O	1:226:A:MET:H	8	0.13
(2,28)	1:222:A:LEU:O	1:226:A:MET:H	13	0.13
(2,22)	1:220:A:ASN:O	1:223:A:MET:H	4	0.13
(2,22)	1:220:A:ASN:O	1:223:A:MET:H	11	0.13
(2,14)	1:236:A:GLU:H	1:250:A:GLU:O	11	0.13
(2,10)	1:214:A:ASN:H	1:245:A:ASP:O	13	0.13
(1,1591)	1:281:A:LYS:HG2	1:282:A:LYS:H	6	0.13
(1,1591)	1:281:A:LYS:HG3	1:282:A:LYS:H	6	0.13
(1,1548)	1:276:A:LYS:HD2	1:277:A:ILE:H	10	0.13
(1,1548)	1:276:A:LYS:HD3	1:277:A:ILE:H	10	0.13
(1,1522)	1:274:A:ALA:HB1	1:276:A:LYS:HD2	17	0.13
(1,1522)	1:274:A:ALA:HB1	1:276:A:LYS:HD3	17	0.13
(1,1522)	1:274:A:ALA:HB2	1:276:A:LYS:HD2	17	0.13
(1,1522)	1:274:A:ALA:HB2	1:276:A:LYS:HD3	17	0.13
(1,1522)	1:274:A:ALA:HB3	1:276:A:LYS:HD2	17	0.13
(1,1522)	1:274:A:ALA:HB3	1:276:A:LYS:HD3	17	0.13
(1,1503)	1:272:A:ASN:H	1:273:A:ASN:HD21	9	0.13
(1,1503)	1:272:A:ASN:H	1:273:A:ASN:HD22	9	0.13
(1,1503)	1:272:A:ASN:H	1:273:A:ASN:HD21	11	0.13
(1,1503)	1:272:A:ASN:H	1:273:A:ASN:HD22	11	0.13
(1,1503)	1:272:A:ASN:H	1:273:A:ASN:HD21	15	0.13
(1,1503)	1:272:A:ASN:H	1:273:A:ASN:HD22	15	0.13
(1,1489)	1:270:A:THR:HG21	1:271:A:GLN:HG2	1	0.13
(1,1489)	1:270:A:THR:HG21	1:271:A:GLN:HG3	1	0.13
(1,1489)	1:270:A:THR:HG22	1:271:A:GLN:HG2	1	0.13
(1,1489)	1:270:A:THR:HG22	1:271:A:GLN:HG3	1	0.13
(1,1489)	1:270:A:THR:HG23	1:271:A:GLN:HG2	1	0.13
(1,1489)	1:270:A:THR:HG23	1:271:A:GLN:HG3	1	0.13
(1,1489)	1:270:A:THR:HG21	1:271:A:GLN:HG2	2	0.13
(1,1489)	1:270:A:THR:HG21	1:271:A:GLN:HG3	2	0.13
(1,1489)	1:270:A:THR:HG22	1:271:A:GLN:HG2	2	0.13
(1,1489)	1:270:A:THR:HG22	1:271:A:GLN:HG3	2	0.13
(1,1489)	1:270:A:THR:HG23	1:271:A:GLN:HG2	2	0.13
(1,1489)	1:270:A:THR:HG23	1:271:A:GLN:HG3	2	0.13
(1,1489)	1:270:A:THR:HG21	1:271:A:GLN:HG2	4	0.13
(1,1489)	1:270:A:THR:HG21	1:271:A:GLN:HG3	4	0.13
(1,1489)	1:270:A:THR:HG22	1:271:A:GLN:HG2	4	0.13
(1,1489)	1:270:A:THR:HG22	1:271:A:GLN:HG3	4	0.13
(1,1489)	1:270:A:THR:HG23	1:271:A:GLN:HG2	4	0.13
(1,1489)	1:270:A:THR:HG23	1:271:A:GLN:HG3	4	0.13
(1,1489)	1:270:A:THR:HG21	1:271:A:GLN:HG2	5	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1489)	1:270:A:THR:HG21	1:271:A:GLN:HG3	5	0.13
(1,1489)	1:270:A:THR:HG22	1:271:A:GLN:HG2	5	0.13
(1,1489)	1:270:A:THR:HG22	1:271:A:GLN:HG3	5	0.13
(1,1489)	1:270:A:THR:HG23	1:271:A:GLN:HG2	5	0.13
(1,1489)	1:270:A:THR:HG23	1:271:A:GLN:HG3	5	0.13
(1,1432)	1:267:A:PHE:HD1	1:269:A:ILE:HB	15	0.13
(1,1432)	1:267:A:PHE:HD2	1:269:A:ILE:HB	15	0.13
(1,1411)	1:267:A:PHE:H	1:269:A:ILE:H	5	0.13
(1,1411)	1:267:A:PHE:H	1:269:A:ILE:H	14	0.13
(1,1369)	1:265:A:GLN:H	1:265:A:GLN:HE21	5	0.13
(1,1369)	1:265:A:GLN:H	1:265:A:GLN:HE21	10	0.13
(1,1369)	1:265:A:GLN:H	1:265:A:GLN:HE21	11	0.13
(1,1369)	1:265:A:GLN:H	1:265:A:GLN:HE21	15	0.13
(1,1342)	1:263:A:ALA:HB1	1:264:A:LEU:HB2	9	0.13
(1,1342)	1:263:A:ALA:HB1	1:264:A:LEU:HB3	9	0.13
(1,1342)	1:263:A:ALA:HB2	1:264:A:LEU:HB2	9	0.13
(1,1342)	1:263:A:ALA:HB2	1:264:A:LEU:HB3	9	0.13
(1,1342)	1:263:A:ALA:HB3	1:264:A:LEU:HB2	9	0.13
(1,1342)	1:263:A:ALA:HB3	1:264:A:LEU:HB3	9	0.13
(1,1342)	1:263:A:ALA:HB1	1:264:A:LEU:HB2	14	0.13
(1,1342)	1:263:A:ALA:HB1	1:264:A:LEU:HB3	14	0.13
(1,1342)	1:263:A:ALA:HB2	1:264:A:LEU:HB2	14	0.13
(1,1342)	1:263:A:ALA:HB2	1:264:A:LEU:HB3	14	0.13
(1,1342)	1:263:A:ALA:HB3	1:264:A:LEU:HB2	14	0.13
(1,1342)	1:263:A:ALA:HB3	1:264:A:LEU:HB3	14	0.13
(1,1342)	1:263:A:ALA:HB1	1:264:A:LEU:HB2	15	0.13
(1,1342)	1:263:A:ALA:HB1	1:264:A:LEU:HB3	15	0.13
(1,1342)	1:263:A:ALA:HB2	1:264:A:LEU:HB2	15	0.13
(1,1342)	1:263:A:ALA:HB2	1:264:A:LEU:HB3	15	0.13
(1,1342)	1:263:A:ALA:HB3	1:264:A:LEU:HB2	15	0.13
(1,1342)	1:263:A:ALA:HB3	1:264:A:LEU:HB3	15	0.13
(1,1342)	1:263:A:ALA:HB1	1:264:A:LEU:HB2	19	0.13
(1,1342)	1:263:A:ALA:HB1	1:264:A:LEU:HB3	19	0.13
(1,1342)	1:263:A:ALA:HB2	1:264:A:LEU:HB2	19	0.13
(1,1342)	1:263:A:ALA:HB2	1:264:A:LEU:HB3	19	0.13
(1,1342)	1:263:A:ALA:HB3	1:264:A:LEU:HB2	19	0.13
(1,1342)	1:263:A:ALA:HB3	1:264:A:LEU:HB3	19	0.13
(1,1342)	1:263:A:ALA:HB1	1:264:A:LEU:HB2	20	0.13
(1,1342)	1:263:A:ALA:HB1	1:264:A:LEU:HB3	20	0.13
(1,1342)	1:263:A:ALA:HB2	1:264:A:LEU:HB2	20	0.13
(1,1342)	1:263:A:ALA:HB2	1:264:A:LEU:HB3	20	0.13
(1,1342)	1:263:A:ALA:HB3	1:264:A:LEU:HB2	20	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1342)	1:263:A:ALA:HB3	1:264:A:LEU:HB3	20	0.13
(1,1301)	1:261:A:ARG:HB2	1:262:A:ASP:HB2	14	0.13
(1,1301)	1:261:A:ARG:HB2	1:262:A:ASP:HB3	14	0.13
(1,1229)	1:255:A:VAL:HG21	1:256:A:GLN:H	1	0.13
(1,1229)	1:255:A:VAL:HG22	1:256:A:GLN:H	1	0.13
(1,1229)	1:255:A:VAL:HG23	1:256:A:GLN:H	1	0.13
(1,1229)	1:255:A:VAL:HG21	1:256:A:GLN:H	14	0.13
(1,1229)	1:255:A:VAL:HG22	1:256:A:GLN:H	14	0.13
(1,1229)	1:255:A:VAL:HG23	1:256:A:GLN:H	14	0.13
(1,1229)	1:255:A:VAL:HG21	1:256:A:GLN:H	16	0.13
(1,1229)	1:255:A:VAL:HG22	1:256:A:GLN:H	16	0.13
(1,1229)	1:255:A:VAL:HG23	1:256:A:GLN:H	16	0.13
(1,1229)	1:255:A:VAL:HG21	1:256:A:GLN:H	18	0.13
(1,1229)	1:255:A:VAL:HG22	1:256:A:GLN:H	18	0.13
(1,1229)	1:255:A:VAL:HG23	1:256:A:GLN:H	18	0.13
(1,1229)	1:255:A:VAL:HG21	1:256:A:GLN:H	19	0.13
(1,1229)	1:255:A:VAL:HG22	1:256:A:GLN:H	19	0.13
(1,1229)	1:255:A:VAL:HG23	1:256:A:GLN:H	19	0.13
(1,1227)	1:255:A:VAL:HG11	1:257:A:ALA:H	15	0.13
(1,1227)	1:255:A:VAL:HG12	1:257:A:ALA:H	15	0.13
(1,1227)	1:255:A:VAL:HG13	1:257:A:ALA:H	15	0.13
(1,1196)	1:253:A:ASN:H	1:256:A:GLN:HA	17	0.13
(1,1175)	1:251:A:PHE:HD1	1:259:A:ALA:H	10	0.13
(1,1175)	1:251:A:PHE:HD2	1:259:A:ALA:H	10	0.13
(1,1175)	1:251:A:PHE:HD1	1:259:A:ALA:H	12	0.13
(1,1175)	1:251:A:PHE:HD2	1:259:A:ALA:H	12	0.13
(1,1175)	1:251:A:PHE:HD1	1:259:A:ALA:H	17	0.13
(1,1175)	1:251:A:PHE:HD2	1:259:A:ALA:H	17	0.13
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB1	10	0.13
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB2	10	0.13
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB3	10	0.13
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB1	10	0.13
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB2	10	0.13
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB3	10	0.13
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB1	11	0.13
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB2	11	0.13
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB3	11	0.13
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB1	11	0.13
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB2	11	0.13
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB3	11	0.13
(1,1143)	1:250:A:GLU:HA	1:251:A:PHE:HD1	2	0.13
(1,1143)	1:250:A:GLU:HA	1:251:A:PHE:HD2	2	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1143)	1:250:A:GLU:HA	1:251:A:PHE:HD1	7	0.13
(1,1143)	1:250:A:GLU:HA	1:251:A:PHE:HD2	7	0.13
(1,1143)	1:250:A:GLU:HA	1:251:A:PHE:HD1	11	0.13
(1,1143)	1:250:A:GLU:HA	1:251:A:PHE:HD2	11	0.13
(1,1143)	1:250:A:GLU:HA	1:251:A:PHE:HD1	14	0.13
(1,1143)	1:250:A:GLU:HA	1:251:A:PHE:HD2	14	0.13
(1,1143)	1:250:A:GLU:HA	1:251:A:PHE:HD1	19	0.13
(1,1143)	1:250:A:GLU:HA	1:251:A:PHE:HD2	19	0.13
(1,1121)	1:248:A:PHE:HD1	1:249:A:VAL:H	13	0.13
(1,1121)	1:248:A:PHE:HD2	1:249:A:VAL:H	13	0.13
(1,1090)	1:246:A:ILE:H	1:246:A:ILE:HD11	7	0.13
(1,1090)	1:246:A:ILE:H	1:246:A:ILE:HD12	7	0.13
(1,1090)	1:246:A:ILE:H	1:246:A:ILE:HD13	7	0.13
(1,1090)	1:246:A:ILE:H	1:246:A:ILE:HD11	9	0.13
(1,1090)	1:246:A:ILE:H	1:246:A:ILE:HD12	9	0.13
(1,1090)	1:246:A:ILE:H	1:246:A:ILE:HD13	9	0.13
(1,1083)	1:245:A:ASP:HA	1:273:A:ASN:HB3	1	0.13
(1,1047)	1:240:A:VAL:HG11	1:246:A:ILE:HB	3	0.13
(1,1047)	1:240:A:VAL:HG12	1:246:A:ILE:HB	3	0.13
(1,1047)	1:240:A:VAL:HG13	1:246:A:ILE:HB	3	0.13
(1,992)	1:238:A:ARG:H	1:250:A:GLU:H	12	0.13
(1,944)	1:235:A:LYS:HB3	1:236:A:GLU:HG2	20	0.13
(1,944)	1:235:A:LYS:HB3	1:236:A:GLU:HG3	20	0.13
(1,936)	1:235:A:LYS:HB2	1:236:A:GLU:H	17	0.13
(1,933)	1:235:A:LYS:H	1:252:A:ASP:H	8	0.13
(1,933)	1:235:A:LYS:H	1:252:A:ASP:H	11	0.13
(1,933)	1:235:A:LYS:H	1:252:A:ASP:H	20	0.13
(1,885)	1:233:A:GLY:H	1:234:A:PHE:H	1	0.13
(1,885)	1:233:A:GLY:H	1:234:A:PHE:H	4	0.13
(1,885)	1:233:A:GLY:H	1:234:A:PHE:H	10	0.13
(1,885)	1:233:A:GLY:H	1:234:A:PHE:H	20	0.13
(1,880)	1:232:A:PRO:HA	1:233:A:GLY:H	1	0.13
(1,880)	1:232:A:PRO:HA	1:233:A:GLY:H	7	0.13
(1,880)	1:232:A:PRO:HA	1:233:A:GLY:H	9	0.13
(1,880)	1:232:A:PRO:HA	1:233:A:GLY:H	18	0.13
(1,880)	1:232:A:PRO:HA	1:233:A:GLY:H	19	0.13
(1,866)	1:231:A:PHE:HB3	1:251:A:PHE:HD1	1	0.13
(1,866)	1:231:A:PHE:HB3	1:251:A:PHE:HD2	1	0.13
(1,866)	1:231:A:PHE:HB3	1:251:A:PHE:HD1	6	0.13
(1,866)	1:231:A:PHE:HB3	1:251:A:PHE:HD2	6	0.13
(1,866)	1:231:A:PHE:HB3	1:251:A:PHE:HD1	8	0.13
(1,866)	1:231:A:PHE:HB3	1:251:A:PHE:HD2	8	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,866)	1:231:A:PHE:HB3	1:251:A:PHE:HD1	9	0.13
(1,866)	1:231:A:PHE:HB3	1:251:A:PHE:HD2	9	0.13
(1,866)	1:231:A:PHE:HB3	1:251:A:PHE:HD1	10	0.13
(1,866)	1:231:A:PHE:HB3	1:251:A:PHE:HD2	10	0.13
(1,866)	1:231:A:PHE:HB3	1:251:A:PHE:HD1	14	0.13
(1,866)	1:231:A:PHE:HB3	1:251:A:PHE:HD2	14	0.13
(1,857)	1:231:A:PHE:H	1:234:A:PHE:HD1	13	0.13
(1,857)	1:231:A:PHE:H	1:234:A:PHE:HD2	13	0.13
(1,808)	1:228:A:PHE:HD1	1:229:A:ASN:H	1	0.13
(1,808)	1:228:A:PHE:HD2	1:229:A:ASN:H	1	0.13
(1,808)	1:228:A:PHE:HD1	1:229:A:ASN:H	3	0.13
(1,808)	1:228:A:PHE:HD2	1:229:A:ASN:H	3	0.13
(1,808)	1:228:A:PHE:HD1	1:229:A:ASN:H	9	0.13
(1,808)	1:228:A:PHE:HD2	1:229:A:ASN:H	9	0.13
(1,808)	1:228:A:PHE:HD1	1:229:A:ASN:H	10	0.13
(1,808)	1:228:A:PHE:HD2	1:229:A:ASN:H	10	0.13
(1,808)	1:228:A:PHE:HD1	1:229:A:ASN:H	13	0.13
(1,808)	1:228:A:PHE:HD2	1:229:A:ASN:H	13	0.13
(1,808)	1:228:A:PHE:HD1	1:229:A:ASN:H	14	0.13
(1,808)	1:228:A:PHE:HD2	1:229:A:ASN:H	14	0.13
(1,808)	1:228:A:PHE:HD1	1:229:A:ASN:H	16	0.13
(1,808)	1:228:A:PHE:HD2	1:229:A:ASN:H	16	0.13
(1,808)	1:228:A:PHE:HD1	1:229:A:ASN:H	18	0.13
(1,808)	1:228:A:PHE:HD2	1:229:A:ASN:H	18	0.13
(1,808)	1:228:A:PHE:HD1	1:229:A:ASN:H	19	0.13
(1,808)	1:228:A:PHE:HD2	1:229:A:ASN:H	19	0.13
(1,773)	1:227:A:LEU:HD11	1:269:A:ILE:HG21	1	0.13
(1,773)	1:227:A:LEU:HD11	1:269:A:ILE:HG22	1	0.13
(1,773)	1:227:A:LEU:HD11	1:269:A:ILE:HG23	1	0.13
(1,773)	1:227:A:LEU:HD12	1:269:A:ILE:HG21	1	0.13
(1,773)	1:227:A:LEU:HD12	1:269:A:ILE:HG22	1	0.13
(1,773)	1:227:A:LEU:HD12	1:269:A:ILE:HG23	1	0.13
(1,773)	1:227:A:LEU:HD13	1:269:A:ILE:HG21	1	0.13
(1,773)	1:227:A:LEU:HD13	1:269:A:ILE:HG22	1	0.13
(1,773)	1:227:A:LEU:HD13	1:269:A:ILE:HG23	1	0.13
(1,773)	1:227:A:LEU:HD11	1:269:A:ILE:HG21	20	0.13
(1,773)	1:227:A:LEU:HD11	1:269:A:ILE:HG22	20	0.13
(1,773)	1:227:A:LEU:HD11	1:269:A:ILE:HG23	20	0.13
(1,773)	1:227:A:LEU:HD12	1:269:A:ILE:HG21	20	0.13
(1,773)	1:227:A:LEU:HD12	1:269:A:ILE:HG22	20	0.13
(1,773)	1:227:A:LEU:HD12	1:269:A:ILE:HG23	20	0.13
(1,773)	1:227:A:LEU:HD13	1:269:A:ILE:HG21	20	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,773)	1:227:A:LEU:HD13	1:269:A:ILE:HG22	20	0.13
(1,773)	1:227:A:LEU:HD13	1:269:A:ILE:HG23	20	0.13
(1,684)	1:224:A:LEU:HB2	1:225:A:SER:H	12	0.13
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD11	4	0.13
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD12	4	0.13
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD13	4	0.13
(1,656)	1:223:A:MET:HB2	1:224:A:LEU:H	5	0.13
(1,656)	1:223:A:MET:HB2	1:224:A:LEU:H	6	0.13
(1,656)	1:223:A:MET:HB2	1:224:A:LEU:H	8	0.13
(1,656)	1:223:A:MET:HB2	1:224:A:LEU:H	14	0.13
(1,656)	1:223:A:MET:HB2	1:224:A:LEU:H	15	0.13
(1,656)	1:223:A:MET:HB2	1:224:A:LEU:H	16	0.13
(1,656)	1:223:A:MET:HB2	1:224:A:LEU:H	18	0.13
(1,656)	1:223:A:MET:HB2	1:224:A:LEU:H	19	0.13
(1,655)	1:223:A:MET:HA	1:227:A:LEU:HD21	13	0.13
(1,655)	1:223:A:MET:HA	1:227:A:LEU:HD22	13	0.13
(1,655)	1:223:A:MET:HA	1:227:A:LEU:HD23	13	0.13
(1,635)	1:222:A:LEU:HG	1:223:A:MET:H	3	0.13
(1,635)	1:222:A:LEU:HG	1:223:A:MET:H	8	0.13
(1,622)	1:221:A:GLU:HG3	1:239:A:LEU:H	8	0.13
(1,622)	1:221:A:GLU:HG3	1:239:A:LEU:H	20	0.13
(1,615)	1:221:A:GLU:HG2	1:234:A:PHE:HZ	6	0.13
(1,613)	1:221:A:GLU:HB3	1:239:A:LEU:HD21	4	0.13
(1,613)	1:221:A:GLU:HB3	1:239:A:LEU:HD22	4	0.13
(1,613)	1:221:A:GLU:HB3	1:239:A:LEU:HD23	4	0.13
(1,473)	1:215:A:LEU:HD21	1:269:A:ILE:HG21	13	0.13
(1,473)	1:215:A:LEU:HD21	1:269:A:ILE:HG22	13	0.13
(1,473)	1:215:A:LEU:HD21	1:269:A:ILE:HG23	13	0.13
(1,473)	1:215:A:LEU:HD22	1:269:A:ILE:HG21	13	0.13
(1,473)	1:215:A:LEU:HD22	1:269:A:ILE:HG22	13	0.13
(1,473)	1:215:A:LEU:HD22	1:269:A:ILE:HG23	13	0.13
(1,473)	1:215:A:LEU:HD23	1:269:A:ILE:HG21	13	0.13
(1,473)	1:215:A:LEU:HD23	1:269:A:ILE:HG22	13	0.13
(1,473)	1:215:A:LEU:HD23	1:269:A:ILE:HG23	13	0.13
(1,453)	1:215:A:LEU:HD11	1:224:A:LEU:HG	15	0.13
(1,453)	1:215:A:LEU:HD12	1:224:A:LEU:HG	15	0.13
(1,453)	1:215:A:LEU:HD13	1:224:A:LEU:HG	15	0.13
(1,431)	1:215:A:LEU:H	1:273:A:ASN:HD21	19	0.13
(1,431)	1:215:A:LEU:H	1:273:A:ASN:HD22	19	0.13
(1,429)	1:215:A:LEU:H	1:269:A:ILE:HD11	19	0.13
(1,429)	1:215:A:LEU:H	1:269:A:ILE:HD12	19	0.13
(1,429)	1:215:A:LEU:H	1:269:A:ILE:HD13	19	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,403)	1:214:A:ASN:HB2	1:276:A:LYS:H	1	0.13
(1,403)	1:214:A:ASN:HB2	1:276:A:LYS:H	6	0.13
(1,403)	1:214:A:ASN:HB2	1:276:A:LYS:H	12	0.13
(1,403)	1:214:A:ASN:HB2	1:276:A:LYS:H	20	0.13
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG21	4	0.13
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG22	4	0.13
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG23	4	0.13
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG21	4	0.13
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG22	4	0.13
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG23	4	0.13
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG21	4	0.13
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG22	4	0.13
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG23	4	0.13
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG21	6	0.13
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG22	6	0.13
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG23	6	0.13
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG21	6	0.13
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG22	6	0.13
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG23	6	0.13
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG21	6	0.13
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG22	6	0.13
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG23	6	0.13
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG21	10	0.13
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG22	10	0.13
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG23	10	0.13
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG21	10	0.13
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG22	10	0.13
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG23	10	0.13
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG21	10	0.13
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG22	10	0.13
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG23	10	0.13
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG21	14	0.13
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG22	14	0.13
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG23	14	0.13
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG21	14	0.13
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG22	14	0.13
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG23	14	0.13
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG21	14	0.13
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG22	14	0.13
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG23	14	0.13
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG21	15	0.13
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG22	15	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG23	15	0.13
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG21	15	0.13
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG22	15	0.13
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG23	15	0.13
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG21	15	0.13
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG22	15	0.13
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG23	15	0.13
(1,218)	1:210:A:LEU:HG	1:261:A:ARG:H	11	0.13
(1,218)	1:210:A:LEU:HG	1:261:A:ARG:H	16	0.13
(1,168)	1:209:A:ILE:HD11	1:237:A:VAL:H	11	0.13
(1,168)	1:209:A:ILE:HD12	1:237:A:VAL:H	11	0.13
(1,168)	1:209:A:ILE:HD13	1:237:A:VAL:H	11	0.13
(1,167)	1:209:A:ILE:HD11	1:236:A:GLU:H	15	0.13
(1,167)	1:209:A:ILE:HD12	1:236:A:GLU:H	15	0.13
(1,167)	1:209:A:ILE:HD13	1:236:A:GLU:H	15	0.13
(1,157)	1:209:A:ILE:HG12	1:238:A:ARG:HB2	5	0.13
(1,122)	1:208:A:HIS:HA	1:208:A:HIS:HD2	18	0.13
(1,118)	1:207:A:ASN:HD22	1:282:A:LYS:H	19	0.13
(1,116)	1:207:A:ASN:HD22	1:280:A:ALA:H	5	0.13
(1,116)	1:207:A:ASN:HD22	1:280:A:ALA:H	8	0.13
(1,116)	1:207:A:ASN:HD22	1:280:A:ALA:H	9	0.13
(1,116)	1:207:A:ASN:HD22	1:280:A:ALA:H	10	0.13
(1,116)	1:207:A:ASN:HD22	1:280:A:ALA:H	15	0.13
(1,116)	1:207:A:ASN:HD22	1:280:A:ALA:H	16	0.13
(1,114)	1:207:A:ASN:HD22	1:210:A:LEU:H	11	0.13
(1,114)	1:207:A:ASN:HD22	1:210:A:LEU:H	16	0.13
(1,108)	1:207:A:ASN:HD21	1:282:A:LYS:HD2	4	0.13
(1,108)	1:207:A:ASN:HD21	1:282:A:LYS:HD3	4	0.13
(1,108)	1:207:A:ASN:HD21	1:282:A:LYS:HD2	18	0.13
(1,108)	1:207:A:ASN:HD21	1:282:A:LYS:HD3	18	0.13
(1,69)	1:204:A:ASN:HB2	1:205:A:PRO:HB2	20	0.13
(1,69)	1:204:A:ASN:HB2	1:205:A:PRO:HB3	20	0.13
(1,69)	1:204:A:ASN:HB3	1:205:A:PRO:HB2	20	0.13
(1,69)	1:204:A:ASN:HB3	1:205:A:PRO:HB3	20	0.13
(1,62)	1:204:A:ASN:HD21	1:281:A:LYS:HA	11	0.13
(1,39)	1:198:A:ALA:HB1	1:199:A:GLN:HB2	2	0.13
(1,39)	1:198:A:ALA:HB1	1:199:A:GLN:HB3	2	0.13
(1,39)	1:198:A:ALA:HB2	1:199:A:GLN:HB2	2	0.13
(1,39)	1:198:A:ALA:HB2	1:199:A:GLN:HB3	2	0.13
(1,39)	1:198:A:ALA:HB3	1:199:A:GLN:HB2	2	0.13
(1,39)	1:198:A:ALA:HB3	1:199:A:GLN:HB3	2	0.13
(2,44)	1:265:A:GLN:H	1:261:A:ARG:O	13	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,42)	1:228:A:PHE:H	1:225:A:SER:O	5	0.12
(2,42)	1:228:A:PHE:H	1:225:A:SER:O	18	0.12
(2,42)	1:228:A:PHE:H	1:225:A:SER:O	19	0.12
(2,38)	1:227:A:LEU:H	1:224:A:LEU:O	2	0.12
(2,38)	1:227:A:LEU:H	1:224:A:LEU:O	4	0.12
(2,38)	1:227:A:LEU:H	1:224:A:LEU:O	7	0.12
(2,38)	1:227:A:LEU:H	1:224:A:LEU:O	10	0.12
(2,38)	1:227:A:LEU:H	1:224:A:LEU:O	15	0.12
(2,38)	1:227:A:LEU:H	1:224:A:LEU:O	16	0.12
(2,38)	1:227:A:LEU:H	1:224:A:LEU:O	19	0.12
(2,38)	1:227:A:LEU:H	1:224:A:LEU:O	20	0.12
(2,36)	1:226:A:MET:O	1:230:A:GLN:H	12	0.12
(2,22)	1:220:A:ASN:O	1:223:A:MET:H	1	0.12
(2,22)	1:220:A:ASN:O	1:223:A:MET:H	16	0.12
(2,22)	1:220:A:ASN:O	1:223:A:MET:H	17	0.12
(2,14)	1:236:A:GLU:H	1:250:A:GLU:O	2	0.12
(2,14)	1:236:A:GLU:H	1:250:A:GLU:O	7	0.12
(2,14)	1:236:A:GLU:H	1:250:A:GLU:O	9	0.12
(2,10)	1:214:A:ASN:H	1:245:A:ASP:O	3	0.12
(2,4)	1:210:A:LEU:O	1:249:A:VAL:H	12	0.12
(1,1548)	1:276:A:LYS:HD2	1:277:A:ILE:H	6	0.12
(1,1548)	1:276:A:LYS:HD3	1:277:A:ILE:H	6	0.12
(1,1548)	1:276:A:LYS:HD2	1:277:A:ILE:H	14	0.12
(1,1548)	1:276:A:LYS:HD3	1:277:A:ILE:H	14	0.12
(1,1526)	1:275:A:MET:H	1:276:A:LYS:H	19	0.12
(1,1526)	1:275:A:MET:H	1:276:A:LYS:H	20	0.12
(1,1522)	1:274:A:ALA:HB1	1:276:A:LYS:HD2	3	0.12
(1,1522)	1:274:A:ALA:HB1	1:276:A:LYS:HD3	3	0.12
(1,1522)	1:274:A:ALA:HB2	1:276:A:LYS:HD2	3	0.12
(1,1522)	1:274:A:ALA:HB2	1:276:A:LYS:HD3	3	0.12
(1,1522)	1:274:A:ALA:HB3	1:276:A:LYS:HD2	3	0.12
(1,1522)	1:274:A:ALA:HB3	1:276:A:LYS:HD3	3	0.12
(1,1489)	1:270:A:THR:HG21	1:271:A:GLN:HG2	9	0.12
(1,1489)	1:270:A:THR:HG21	1:271:A:GLN:HG3	9	0.12
(1,1489)	1:270:A:THR:HG22	1:271:A:GLN:HG2	9	0.12
(1,1489)	1:270:A:THR:HG22	1:271:A:GLN:HG3	9	0.12
(1,1489)	1:270:A:THR:HG23	1:271:A:GLN:HG2	9	0.12
(1,1489)	1:270:A:THR:HG23	1:271:A:GLN:HG3	9	0.12
(1,1489)	1:270:A:THR:HG21	1:271:A:GLN:HG2	10	0.12
(1,1489)	1:270:A:THR:HG21	1:271:A:GLN:HG3	10	0.12
(1,1489)	1:270:A:THR:HG22	1:271:A:GLN:HG2	10	0.12
(1,1489)	1:270:A:THR:HG22	1:271:A:GLN:HG3	10	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1489)	1:270:A:THR:HG23	1:271:A:GLN:HG2	10	0.12
(1,1489)	1:270:A:THR:HG23	1:271:A:GLN:HG3	10	0.12
(1,1489)	1:270:A:THR:HG21	1:271:A:GLN:HG2	15	0.12
(1,1489)	1:270:A:THR:HG21	1:271:A:GLN:HG3	15	0.12
(1,1489)	1:270:A:THR:HG22	1:271:A:GLN:HG2	15	0.12
(1,1489)	1:270:A:THR:HG22	1:271:A:GLN:HG3	15	0.12
(1,1489)	1:270:A:THR:HG23	1:271:A:GLN:HG2	15	0.12
(1,1489)	1:270:A:THR:HG23	1:271:A:GLN:HG3	15	0.12
(1,1489)	1:270:A:THR:HG21	1:271:A:GLN:HG2	18	0.12
(1,1489)	1:270:A:THR:HG21	1:271:A:GLN:HG3	18	0.12
(1,1489)	1:270:A:THR:HG22	1:271:A:GLN:HG2	18	0.12
(1,1489)	1:270:A:THR:HG22	1:271:A:GLN:HG3	18	0.12
(1,1489)	1:270:A:THR:HG23	1:271:A:GLN:HG2	18	0.12
(1,1489)	1:270:A:THR:HG23	1:271:A:GLN:HG3	18	0.12
(1,1456)	1:268:A:LYS:HD2	1:269:A:ILE:HA	12	0.12
(1,1456)	1:268:A:LYS:HD3	1:269:A:ILE:HA	12	0.12
(1,1456)	1:268:A:LYS:HD2	1:269:A:ILE:HA	15	0.12
(1,1456)	1:268:A:LYS:HD3	1:269:A:ILE:HA	15	0.12
(1,1436)	1:267:A:PHE:HD1	1:275:A:MET:HG2	9	0.12
(1,1436)	1:267:A:PHE:HD1	1:275:A:MET:HG3	9	0.12
(1,1436)	1:267:A:PHE:HD2	1:275:A:MET:HG2	9	0.12
(1,1436)	1:267:A:PHE:HD2	1:275:A:MET:HG3	9	0.12
(1,1432)	1:267:A:PHE:HD1	1:269:A:ILE:HB	1	0.12
(1,1432)	1:267:A:PHE:HD2	1:269:A:ILE:HB	1	0.12
(1,1432)	1:267:A:PHE:HD1	1:269:A:ILE:HB	19	0.12
(1,1432)	1:267:A:PHE:HD2	1:269:A:ILE:HB	19	0.12
(1,1426)	1:267:A:PHE:HB3	1:275:A:MET:HE1	12	0.12
(1,1426)	1:267:A:PHE:HB3	1:275:A:MET:HE2	12	0.12
(1,1426)	1:267:A:PHE:HB3	1:275:A:MET:HE3	12	0.12
(1,1411)	1:267:A:PHE:H	1:269:A:ILE:H	9	0.12
(1,1369)	1:265:A:GLN:H	1:265:A:GLN:HE21	2	0.12
(1,1369)	1:265:A:GLN:H	1:265:A:GLN:HE21	18	0.12
(1,1342)	1:263:A:ALA:HB1	1:264:A:LEU:HB2	17	0.12
(1,1342)	1:263:A:ALA:HB1	1:264:A:LEU:HB3	17	0.12
(1,1342)	1:263:A:ALA:HB2	1:264:A:LEU:HB2	17	0.12
(1,1342)	1:263:A:ALA:HB2	1:264:A:LEU:HB3	17	0.12
(1,1342)	1:263:A:ALA:HB3	1:264:A:LEU:HB2	17	0.12
(1,1342)	1:263:A:ALA:HB3	1:264:A:LEU:HB3	17	0.12
(1,1301)	1:261:A:ARG:HB2	1:262:A:ASP:HB2	10	0.12
(1,1301)	1:261:A:ARG:HB2	1:262:A:ASP:HB3	10	0.12
(1,1196)	1:253:A:ASN:H	1:256:A:GLN:HA	3	0.12
(1,1196)	1:253:A:ASN:H	1:256:A:GLN:HA	7	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1196)	1:253:A:ASN:H	1:256:A:GLN:HA	14	0.12
(1,1196)	1:253:A:ASN:H	1:256:A:GLN:HA	20	0.12
(1,1161)	1:251:A:PHE:HB2	1:259:A:ALA:HB1	13	0.12
(1,1161)	1:251:A:PHE:HB2	1:259:A:ALA:HB2	13	0.12
(1,1161)	1:251:A:PHE:HB2	1:259:A:ALA:HB3	13	0.12
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB1	1	0.12
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB2	1	0.12
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB3	1	0.12
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB1	1	0.12
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB2	1	0.12
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB3	1	0.12
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB1	4	0.12
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB2	4	0.12
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB3	4	0.12
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB1	4	0.12
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB2	4	0.12
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB3	4	0.12
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB1	5	0.12
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB2	5	0.12
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB3	5	0.12
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB1	5	0.12
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB2	5	0.12
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB3	5	0.12
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB1	7	0.12
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB2	7	0.12
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB3	7	0.12
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB1	7	0.12
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB2	7	0.12
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB3	7	0.12
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB1	8	0.12
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB2	8	0.12
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB3	8	0.12
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB1	8	0.12
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB2	8	0.12
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB3	8	0.12
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB1	9	0.12
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB2	9	0.12
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB3	9	0.12
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB1	9	0.12
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB2	9	0.12
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB3	9	0.12
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB1	14	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB2	14	0.12
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB3	14	0.12
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB1	14	0.12
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB2	14	0.12
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB3	14	0.12
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB1	16	0.12
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB2	16	0.12
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB3	16	0.12
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB1	16	0.12
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB2	16	0.12
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB3	16	0.12
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB1	17	0.12
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB2	17	0.12
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB3	17	0.12
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB1	17	0.12
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB2	17	0.12
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB3	17	0.12
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB1	18	0.12
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB2	18	0.12
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB3	18	0.12
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB1	18	0.12
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB2	18	0.12
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB3	18	0.12
(1,1143)	1:250:A:GLU:HA	1:251:A:PHE:HD1	6	0.12
(1,1143)	1:250:A:GLU:HA	1:251:A:PHE:HD2	6	0.12
(1,1143)	1:250:A:GLU:HA	1:251:A:PHE:HD1	9	0.12
(1,1143)	1:250:A:GLU:HA	1:251:A:PHE:HD2	9	0.12
(1,1090)	1:246:A:ILE:H	1:246:A:ILE:HD11	4	0.12
(1,1090)	1:246:A:ILE:H	1:246:A:ILE:HD12	4	0.12
(1,1090)	1:246:A:ILE:H	1:246:A:ILE:HD13	4	0.12
(1,1090)	1:246:A:ILE:H	1:246:A:ILE:HD11	16	0.12
(1,1090)	1:246:A:ILE:H	1:246:A:ILE:HD12	16	0.12
(1,1090)	1:246:A:ILE:H	1:246:A:ILE:HD13	16	0.12
(1,1083)	1:245:A:ASP:HA	1:273:A:ASN:HB3	16	0.12
(1,1083)	1:245:A:ASP:HA	1:273:A:ASN:HB3	17	0.12
(1,1047)	1:240:A:VAL:HG11	1:246:A:ILE:HB	17	0.12
(1,1047)	1:240:A:VAL:HG12	1:246:A:ILE:HB	17	0.12
(1,1047)	1:240:A:VAL:HG13	1:246:A:ILE:HB	17	0.12
(1,1039)	1:240:A:VAL:H	1:243:A:ARG:H	13	0.12
(1,970)	1:237:A:VAL:HB	1:250:A:GLU:H	1	0.12
(1,970)	1:237:A:VAL:HB	1:250:A:GLU:H	3	0.12
(1,970)	1:237:A:VAL:HB	1:250:A:GLU:H	5	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,970)	1:237:A:VAL:HB	1:250:A:GLU:H	18	0.12
(1,936)	1:235:A:LYS:HB2	1:236:A:GLU:H	10	0.12
(1,933)	1:235:A:LYS:H	1:252:A:ASP:H	5	0.12
(1,933)	1:235:A:LYS:H	1:252:A:ASP:H	6	0.12
(1,933)	1:235:A:LYS:H	1:252:A:ASP:H	9	0.12
(1,933)	1:235:A:LYS:H	1:252:A:ASP:H	13	0.12
(1,885)	1:233:A:GLY:H	1:234:A:PHE:H	13	0.12
(1,880)	1:232:A:PRO:HA	1:233:A:GLY:H	10	0.12
(1,880)	1:232:A:PRO:HA	1:233:A:GLY:H	11	0.12
(1,880)	1:232:A:PRO:HA	1:233:A:GLY:H	17	0.12
(1,875)	1:231:A:PHE:HE1	1:232:A:PRO:HD2	12	0.12
(1,875)	1:231:A:PHE:HE2	1:232:A:PRO:HD2	12	0.12
(1,866)	1:231:A:PHE:HB3	1:251:A:PHE:HD1	2	0.12
(1,866)	1:231:A:PHE:HB3	1:251:A:PHE:HD2	2	0.12
(1,866)	1:231:A:PHE:HB3	1:251:A:PHE:HD1	16	0.12
(1,866)	1:231:A:PHE:HB3	1:251:A:PHE:HD2	16	0.12
(1,866)	1:231:A:PHE:HB3	1:251:A:PHE:HD1	17	0.12
(1,866)	1:231:A:PHE:HB3	1:251:A:PHE:HD2	17	0.12
(1,857)	1:231:A:PHE:H	1:234:A:PHE:HD1	19	0.12
(1,857)	1:231:A:PHE:H	1:234:A:PHE:HD2	19	0.12
(1,808)	1:228:A:PHE:HD1	1:229:A:ASN:H	2	0.12
(1,808)	1:228:A:PHE:HD2	1:229:A:ASN:H	2	0.12
(1,808)	1:228:A:PHE:HD1	1:229:A:ASN:H	6	0.12
(1,808)	1:228:A:PHE:HD2	1:229:A:ASN:H	6	0.12
(1,808)	1:228:A:PHE:HD1	1:229:A:ASN:H	8	0.12
(1,808)	1:228:A:PHE:HD2	1:229:A:ASN:H	8	0.12
(1,808)	1:228:A:PHE:HD1	1:229:A:ASN:H	12	0.12
(1,808)	1:228:A:PHE:HD2	1:229:A:ASN:H	12	0.12
(1,808)	1:228:A:PHE:HD1	1:229:A:ASN:H	15	0.12
(1,808)	1:228:A:PHE:HD2	1:229:A:ASN:H	15	0.12
(1,773)	1:227:A:LEU:HD11	1:269:A:ILE:HG21	4	0.12
(1,773)	1:227:A:LEU:HD11	1:269:A:ILE:HG22	4	0.12
(1,773)	1:227:A:LEU:HD11	1:269:A:ILE:HG23	4	0.12
(1,773)	1:227:A:LEU:HD12	1:269:A:ILE:HG21	4	0.12
(1,773)	1:227:A:LEU:HD12	1:269:A:ILE:HG22	4	0.12
(1,773)	1:227:A:LEU:HD12	1:269:A:ILE:HG23	4	0.12
(1,773)	1:227:A:LEU:HD13	1:269:A:ILE:HG21	4	0.12
(1,773)	1:227:A:LEU:HD13	1:269:A:ILE:HG22	4	0.12
(1,773)	1:227:A:LEU:HD13	1:269:A:ILE:HG23	4	0.12
(1,773)	1:227:A:LEU:HD11	1:269:A:ILE:HG21	5	0.12
(1,773)	1:227:A:LEU:HD11	1:269:A:ILE:HG22	5	0.12
(1,773)	1:227:A:LEU:HD11	1:269:A:ILE:HG23	5	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,773)	1:227:A:LEU:HD12	1:269:A:ILE:HG21	5	0.12
(1,773)	1:227:A:LEU:HD12	1:269:A:ILE:HG22	5	0.12
(1,773)	1:227:A:LEU:HD12	1:269:A:ILE:HG23	5	0.12
(1,773)	1:227:A:LEU:HD13	1:269:A:ILE:HG21	5	0.12
(1,773)	1:227:A:LEU:HD13	1:269:A:ILE:HG22	5	0.12
(1,773)	1:227:A:LEU:HD13	1:269:A:ILE:HG23	5	0.12
(1,773)	1:227:A:LEU:HD11	1:269:A:ILE:HG21	7	0.12
(1,773)	1:227:A:LEU:HD11	1:269:A:ILE:HG22	7	0.12
(1,773)	1:227:A:LEU:HD11	1:269:A:ILE:HG23	7	0.12
(1,773)	1:227:A:LEU:HD12	1:269:A:ILE:HG21	7	0.12
(1,773)	1:227:A:LEU:HD12	1:269:A:ILE:HG22	7	0.12
(1,773)	1:227:A:LEU:HD12	1:269:A:ILE:HG23	7	0.12
(1,773)	1:227:A:LEU:HD13	1:269:A:ILE:HG21	7	0.12
(1,773)	1:227:A:LEU:HD13	1:269:A:ILE:HG22	7	0.12
(1,773)	1:227:A:LEU:HD13	1:269:A:ILE:HG23	7	0.12
(1,773)	1:227:A:LEU:HD11	1:269:A:ILE:HG21	19	0.12
(1,773)	1:227:A:LEU:HD11	1:269:A:ILE:HG22	19	0.12
(1,773)	1:227:A:LEU:HD11	1:269:A:ILE:HG23	19	0.12
(1,773)	1:227:A:LEU:HD12	1:269:A:ILE:HG21	19	0.12
(1,773)	1:227:A:LEU:HD12	1:269:A:ILE:HG22	19	0.12
(1,773)	1:227:A:LEU:HD12	1:269:A:ILE:HG23	19	0.12
(1,773)	1:227:A:LEU:HD13	1:269:A:ILE:HG21	19	0.12
(1,773)	1:227:A:LEU:HD13	1:269:A:ILE:HG22	19	0.12
(1,773)	1:227:A:LEU:HD13	1:269:A:ILE:HG23	19	0.12
(1,760)	1:227:A:LEU:HB3	1:228:A:PHE:H	4	0.12
(1,760)	1:227:A:LEU:HB3	1:228:A:PHE:H	10	0.12
(1,760)	1:227:A:LEU:HB3	1:228:A:PHE:H	15	0.12
(1,760)	1:227:A:LEU:HB3	1:228:A:PHE:H	18	0.12
(1,760)	1:227:A:LEU:HB3	1:228:A:PHE:H	19	0.12
(1,696)	1:224:A:LEU:HD11	1:225:A:SER:H	13	0.12
(1,696)	1:224:A:LEU:HD12	1:225:A:SER:H	13	0.12
(1,696)	1:224:A:LEU:HD13	1:225:A:SER:H	13	0.12
(1,695)	1:224:A:LEU:HG	1:275:A:MET:HE1	13	0.12
(1,695)	1:224:A:LEU:HG	1:275:A:MET:HE2	13	0.12
(1,695)	1:224:A:LEU:HG	1:275:A:MET:HE3	13	0.12
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD11	11	0.12
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD12	11	0.12
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD13	11	0.12
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD11	16	0.12
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD12	16	0.12
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD13	16	0.12
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD11	20	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD12	20	0.12
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD13	20	0.12
(1,656)	1:223:A:MET:HB2	1:224:A:LEU:H	1	0.12
(1,656)	1:223:A:MET:HB2	1:224:A:LEU:H	3	0.12
(1,656)	1:223:A:MET:HB2	1:224:A:LEU:H	4	0.12
(1,622)	1:221:A:GLU:HG3	1:239:A:LEU:H	2	0.12
(1,622)	1:221:A:GLU:HG3	1:239:A:LEU:H	11	0.12
(1,617)	1:221:A:GLU:HG2	1:238:A:ARG:HA	4	0.12
(1,613)	1:221:A:GLU:HB3	1:239:A:LEU:HD21	5	0.12
(1,613)	1:221:A:GLU:HB3	1:239:A:LEU:HD22	5	0.12
(1,613)	1:221:A:GLU:HB3	1:239:A:LEU:HD23	5	0.12
(1,613)	1:221:A:GLU:HB3	1:239:A:LEU:HD21	15	0.12
(1,613)	1:221:A:GLU:HB3	1:239:A:LEU:HD22	15	0.12
(1,613)	1:221:A:GLU:HB3	1:239:A:LEU:HD23	15	0.12
(1,542)	1:218:A:GLU:HG2	1:219:A:THR:H	11	0.12
(1,542)	1:218:A:GLU:HG3	1:219:A:THR:H	11	0.12
(1,489)	1:216:A:PRO:HB2	1:269:A:ILE:HD11	14	0.12
(1,489)	1:216:A:PRO:HB2	1:269:A:ILE:HD12	14	0.12
(1,489)	1:216:A:PRO:HB2	1:269:A:ILE:HD13	14	0.12
(1,489)	1:216:A:PRO:HB2	1:269:A:ILE:HD11	16	0.12
(1,489)	1:216:A:PRO:HB2	1:269:A:ILE:HD12	16	0.12
(1,489)	1:216:A:PRO:HB2	1:269:A:ILE:HD13	16	0.12
(1,435)	1:215:A:LEU:HA	1:269:A:ILE:HG21	11	0.12
(1,435)	1:215:A:LEU:HA	1:269:A:ILE:HG22	11	0.12
(1,435)	1:215:A:LEU:HA	1:269:A:ILE:HG23	11	0.12
(1,435)	1:215:A:LEU:HA	1:269:A:ILE:HG21	17	0.12
(1,435)	1:215:A:LEU:HA	1:269:A:ILE:HG22	17	0.12
(1,435)	1:215:A:LEU:HA	1:269:A:ILE:HG23	17	0.12
(1,429)	1:215:A:LEU:H	1:269:A:ILE:HD11	15	0.12
(1,429)	1:215:A:LEU:H	1:269:A:ILE:HD12	15	0.12
(1,429)	1:215:A:LEU:H	1:269:A:ILE:HD13	15	0.12
(1,429)	1:215:A:LEU:H	1:269:A:ILE:HD11	17	0.12
(1,429)	1:215:A:LEU:H	1:269:A:ILE:HD12	17	0.12
(1,429)	1:215:A:LEU:H	1:269:A:ILE:HD13	17	0.12
(1,418)	1:214:A:ASN:HD21	1:276:A:LYS:HG3	16	0.12
(1,415)	1:214:A:ASN:HD21	1:273:A:ASN:HA	13	0.12
(1,403)	1:214:A:ASN:HB2	1:276:A:LYS:H	14	0.12
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG21	8	0.12
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG22	8	0.12
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG23	8	0.12
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG21	10	0.12
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG22	10	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG23	10	0.12
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG21	14	0.12
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG22	14	0.12
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG23	14	0.12
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG21	19	0.12
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG22	19	0.12
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG23	19	0.12
(1,357)	1:212:A:LEU:HD21	1:264:A:LEU:HD11	12	0.12
(1,357)	1:212:A:LEU:HD21	1:264:A:LEU:HD12	12	0.12
(1,357)	1:212:A:LEU:HD21	1:264:A:LEU:HD13	12	0.12
(1,357)	1:212:A:LEU:HD22	1:264:A:LEU:HD11	12	0.12
(1,357)	1:212:A:LEU:HD22	1:264:A:LEU:HD12	12	0.12
(1,357)	1:212:A:LEU:HD22	1:264:A:LEU:HD13	12	0.12
(1,357)	1:212:A:LEU:HD23	1:264:A:LEU:HD11	12	0.12
(1,357)	1:212:A:LEU:HD23	1:264:A:LEU:HD12	12	0.12
(1,357)	1:212:A:LEU:HD23	1:264:A:LEU:HD13	12	0.12
(1,346)	1:212:A:LEU:HD11	1:277:A:ILE:H	12	0.12
(1,346)	1:212:A:LEU:HD12	1:277:A:ILE:H	12	0.12
(1,346)	1:212:A:LEU:HD13	1:277:A:ILE:H	12	0.12
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG21	5	0.12
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG22	5	0.12
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG23	5	0.12
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG21	5	0.12
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG22	5	0.12
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG23	5	0.12
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG21	5	0.12
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG22	5	0.12
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG23	5	0.12
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG21	19	0.12
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG22	19	0.12
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG23	19	0.12
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG21	19	0.12
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG22	19	0.12
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG23	19	0.12
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG21	19	0.12
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG22	19	0.12
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG23	19	0.12
(1,286)	1:211:A:PHE:HD1	1:246:A:ILE:HD11	20	0.12
(1,286)	1:211:A:PHE:HD1	1:246:A:ILE:HD12	20	0.12
(1,286)	1:211:A:PHE:HD1	1:246:A:ILE:HD13	20	0.12
(1,286)	1:211:A:PHE:HD2	1:246:A:ILE:HD11	20	0.12
(1,286)	1:211:A:PHE:HD2	1:246:A:ILE:HD12	20	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,286)	1:211:A:PHE:HD2	1:246:A:ILE:HD13	20	0.12
(1,278)	1:211:A:PHE:HZ	1:213:A:THR:HB	12	0.12
(1,218)	1:210:A:LEU:HG	1:261:A:ARG:H	2	0.12
(1,218)	1:210:A:LEU:HG	1:261:A:ARG:H	4	0.12
(1,218)	1:210:A:LEU:HG	1:261:A:ARG:H	14	0.12
(1,218)	1:210:A:LEU:HG	1:261:A:ARG:H	18	0.12
(1,183)	1:209:A:ILE:HG21	1:249:A:VAL:H	9	0.12
(1,183)	1:209:A:ILE:HG22	1:249:A:VAL:H	9	0.12
(1,183)	1:209:A:ILE:HG23	1:249:A:VAL:H	9	0.12
(1,183)	1:209:A:ILE:HG21	1:249:A:VAL:H	13	0.12
(1,183)	1:209:A:ILE:HG22	1:249:A:VAL:H	13	0.12
(1,183)	1:209:A:ILE:HG23	1:249:A:VAL:H	13	0.12
(1,183)	1:209:A:ILE:HG21	1:249:A:VAL:H	15	0.12
(1,183)	1:209:A:ILE:HG22	1:249:A:VAL:H	15	0.12
(1,183)	1:209:A:ILE:HG23	1:249:A:VAL:H	15	0.12
(1,183)	1:209:A:ILE:HG21	1:249:A:VAL:H	19	0.12
(1,183)	1:209:A:ILE:HG22	1:249:A:VAL:H	19	0.12
(1,183)	1:209:A:ILE:HG23	1:249:A:VAL:H	19	0.12
(1,168)	1:209:A:ILE:HD11	1:237:A:VAL:H	1	0.12
(1,168)	1:209:A:ILE:HD12	1:237:A:VAL:H	1	0.12
(1,168)	1:209:A:ILE:HD13	1:237:A:VAL:H	1	0.12
(1,167)	1:209:A:ILE:HD11	1:236:A:GLU:H	8	0.12
(1,167)	1:209:A:ILE:HD12	1:236:A:GLU:H	8	0.12
(1,167)	1:209:A:ILE:HD13	1:236:A:GLU:H	8	0.12
(1,167)	1:209:A:ILE:HD11	1:236:A:GLU:H	20	0.12
(1,167)	1:209:A:ILE:HD12	1:236:A:GLU:H	20	0.12
(1,167)	1:209:A:ILE:HD13	1:236:A:GLU:H	20	0.12
(1,123)	1:208:A:HIS:HA	1:257:A:ALA:H	19	0.12
(1,116)	1:207:A:ASN:HD22	1:280:A:ALA:H	17	0.12
(1,114)	1:207:A:ASN:HD22	1:210:A:LEU:H	3	0.12
(1,114)	1:207:A:ASN:HD22	1:210:A:LEU:H	4	0.12
(1,108)	1:207:A:ASN:HD21	1:282:A:LYS:HD2	11	0.12
(1,108)	1:207:A:ASN:HD21	1:282:A:LYS:HD3	11	0.12
(1,100)	1:207:A:ASN:HB2	1:209:A:ILE:HD11	19	0.12
(1,100)	1:207:A:ASN:HB2	1:209:A:ILE:HD12	19	0.12
(1,100)	1:207:A:ASN:HB2	1:209:A:ILE:HD13	19	0.12
(1,97)	1:207:A:ASN:H	1:279:A:PHE:HE1	6	0.12
(1,97)	1:207:A:ASN:H	1:279:A:PHE:HE2	6	0.12
(1,84)	1:205:A:PRO:HG2	1:281:A:LYS:HD2	10	0.12
(1,84)	1:205:A:PRO:HG2	1:281:A:LYS:HD3	10	0.12
(1,84)	1:205:A:PRO:HG3	1:281:A:LYS:HD2	10	0.12
(1,84)	1:205:A:PRO:HG3	1:281:A:LYS:HD3	10	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,69)	1:204:A:ASN:HB2	1:205:A:PRO:HB2	4	0.12
(1,69)	1:204:A:ASN:HB2	1:205:A:PRO:HB3	4	0.12
(1,69)	1:204:A:ASN:HB3	1:205:A:PRO:HB2	4	0.12
(1,69)	1:204:A:ASN:HB3	1:205:A:PRO:HB3	4	0.12
(1,46)	1:200:A:PRO:HG2	1:201:A:LEU:HB2	6	0.12
(1,46)	1:200:A:PRO:HG2	1:201:A:LEU:HB3	6	0.12
(1,46)	1:200:A:PRO:HG3	1:201:A:LEU:HB2	6	0.12
(1,46)	1:200:A:PRO:HG3	1:201:A:LEU:HB3	6	0.12
(2,42)	1:228:A:PHE:H	1:225:A:SER:O	13	0.11
(2,38)	1:227:A:LEU:H	1:224:A:LEU:O	3	0.11
(2,38)	1:227:A:LEU:H	1:224:A:LEU:O	11	0.11
(2,38)	1:227:A:LEU:H	1:224:A:LEU:O	14	0.11
(2,38)	1:227:A:LEU:H	1:224:A:LEU:O	17	0.11
(2,28)	1:222:A:LEU:O	1:226:A:MET:H	18	0.11
(2,22)	1:220:A:ASN:O	1:223:A:MET:H	8	0.11
(2,22)	1:220:A:ASN:O	1:223:A:MET:H	12	0.11
(2,22)	1:220:A:ASN:O	1:223:A:MET:H	15	0.11
(2,22)	1:220:A:ASN:O	1:223:A:MET:H	18	0.11
(2,22)	1:220:A:ASN:O	1:223:A:MET:H	20	0.11
(2,14)	1:236:A:GLU:H	1:250:A:GLU:O	13	0.11
(1,1563)	1:278:A:SER:H	1:280:A:ALA:H	9	0.11
(1,1563)	1:278:A:SER:H	1:280:A:ALA:H	20	0.11
(1,1548)	1:276:A:LYS:HD2	1:277:A:ILE:H	13	0.11
(1,1548)	1:276:A:LYS:HD3	1:277:A:ILE:H	13	0.11
(1,1489)	1:270:A:THR:HG21	1:271:A:GLN:HG2	20	0.11
(1,1489)	1:270:A:THR:HG21	1:271:A:GLN:HG3	20	0.11
(1,1489)	1:270:A:THR:HG22	1:271:A:GLN:HG2	20	0.11
(1,1489)	1:270:A:THR:HG22	1:271:A:GLN:HG3	20	0.11
(1,1489)	1:270:A:THR:HG23	1:271:A:GLN:HG2	20	0.11
(1,1489)	1:270:A:THR:HG23	1:271:A:GLN:HG3	20	0.11
(1,1456)	1:268:A:LYS:HD2	1:269:A:ILE:HA	1	0.11
(1,1456)	1:268:A:LYS:HD3	1:269:A:ILE:HA	1	0.11
(1,1456)	1:268:A:LYS:HD2	1:269:A:ILE:HA	2	0.11
(1,1456)	1:268:A:LYS:HD3	1:269:A:ILE:HA	2	0.11
(1,1436)	1:267:A:PHE:HD1	1:275:A:MET:HG2	1	0.11
(1,1436)	1:267:A:PHE:HD1	1:275:A:MET:HG3	1	0.11
(1,1436)	1:267:A:PHE:HD2	1:275:A:MET:HG2	1	0.11
(1,1436)	1:267:A:PHE:HD2	1:275:A:MET:HG3	1	0.11
(1,1436)	1:267:A:PHE:HD1	1:275:A:MET:HG2	3	0.11
(1,1436)	1:267:A:PHE:HD1	1:275:A:MET:HG3	3	0.11
(1,1436)	1:267:A:PHE:HD2	1:275:A:MET:HG2	3	0.11
(1,1436)	1:267:A:PHE:HD2	1:275:A:MET:HG3	3	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1436)	1:267:A:PHE:HD1	1:275:A:MET:HG2	15	0.11
(1,1436)	1:267:A:PHE:HD1	1:275:A:MET:HG3	15	0.11
(1,1436)	1:267:A:PHE:HD2	1:275:A:MET:HG2	15	0.11
(1,1436)	1:267:A:PHE:HD2	1:275:A:MET:HG3	15	0.11
(1,1432)	1:267:A:PHE:HD1	1:269:A:ILE:HB	2	0.11
(1,1432)	1:267:A:PHE:HD2	1:269:A:ILE:HB	2	0.11
(1,1432)	1:267:A:PHE:HD1	1:269:A:ILE:HB	7	0.11
(1,1432)	1:267:A:PHE:HD2	1:269:A:ILE:HB	7	0.11
(1,1432)	1:267:A:PHE:HD1	1:269:A:ILE:HB	10	0.11
(1,1432)	1:267:A:PHE:HD2	1:269:A:ILE:HB	10	0.11
(1,1432)	1:267:A:PHE:HD1	1:269:A:ILE:HB	11	0.11
(1,1432)	1:267:A:PHE:HD2	1:269:A:ILE:HB	11	0.11
(1,1432)	1:267:A:PHE:HD1	1:269:A:ILE:HB	12	0.11
(1,1432)	1:267:A:PHE:HD2	1:269:A:ILE:HB	12	0.11
(1,1432)	1:267:A:PHE:HD1	1:269:A:ILE:HB	14	0.11
(1,1432)	1:267:A:PHE:HD2	1:269:A:ILE:HB	14	0.11
(1,1432)	1:267:A:PHE:HD1	1:269:A:ILE:HB	16	0.11
(1,1432)	1:267:A:PHE:HD2	1:269:A:ILE:HB	16	0.11
(1,1426)	1:267:A:PHE:HB3	1:275:A:MET:HE1	3	0.11
(1,1426)	1:267:A:PHE:HB3	1:275:A:MET:HE2	3	0.11
(1,1426)	1:267:A:PHE:HB3	1:275:A:MET:HE3	3	0.11
(1,1426)	1:267:A:PHE:HB3	1:275:A:MET:HE1	17	0.11
(1,1426)	1:267:A:PHE:HB3	1:275:A:MET:HE2	17	0.11
(1,1426)	1:267:A:PHE:HB3	1:275:A:MET:HE3	17	0.11
(1,1411)	1:267:A:PHE:H	1:269:A:ILE:H	2	0.11
(1,1411)	1:267:A:PHE:H	1:269:A:ILE:H	3	0.11
(1,1411)	1:267:A:PHE:H	1:269:A:ILE:H	4	0.11
(1,1411)	1:267:A:PHE:H	1:269:A:ILE:H	6	0.11
(1,1411)	1:267:A:PHE:H	1:269:A:ILE:H	17	0.11
(1,1411)	1:267:A:PHE:H	1:269:A:ILE:H	18	0.11
(1,1411)	1:267:A:PHE:H	1:269:A:ILE:H	20	0.11
(1,1320)	1:261:A:ARG:HE	1:279:A:PHE:HB2	16	0.11
(1,1196)	1:253:A:ASN:H	1:256:A:GLN:HA	2	0.11
(1,1196)	1:253:A:ASN:H	1:256:A:GLN:HA	9	0.11
(1,1196)	1:253:A:ASN:H	1:256:A:GLN:HA	11	0.11
(1,1196)	1:253:A:ASN:H	1:256:A:GLN:HA	13	0.11
(1,1196)	1:253:A:ASN:H	1:256:A:GLN:HA	16	0.11
(1,1161)	1:251:A:PHE:HB2	1:259:A:ALA:HB1	18	0.11
(1,1161)	1:251:A:PHE:HB2	1:259:A:ALA:HB2	18	0.11
(1,1161)	1:251:A:PHE:HB2	1:259:A:ALA:HB3	18	0.11
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB1	3	0.11
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB2	3	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB3	3	0.11
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB1	3	0.11
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB2	3	0.11
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB3	3	0.11
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB1	13	0.11
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB2	13	0.11
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB3	13	0.11
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB1	13	0.11
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB2	13	0.11
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB3	13	0.11
(1,1137)	1:249:A:VAL:HG21	1:250:A:GLU:HA	12	0.11
(1,1137)	1:249:A:VAL:HG22	1:250:A:GLU:HA	12	0.11
(1,1137)	1:249:A:VAL:HG23	1:250:A:GLU:HA	12	0.11
(1,1090)	1:246:A:ILE:H	1:246:A:ILE:HD11	2	0.11
(1,1090)	1:246:A:ILE:H	1:246:A:ILE:HD12	2	0.11
(1,1090)	1:246:A:ILE:H	1:246:A:ILE:HD13	2	0.11
(1,1090)	1:246:A:ILE:H	1:246:A:ILE:HD11	5	0.11
(1,1090)	1:246:A:ILE:H	1:246:A:ILE:HD12	5	0.11
(1,1090)	1:246:A:ILE:H	1:246:A:ILE:HD13	5	0.11
(1,1083)	1:245:A:ASP:HA	1:273:A:ASN:HB3	19	0.11
(1,1068)	1:244:A:HIS:HA	1:245:A:ASP:H	7	0.11
(1,1047)	1:240:A:VAL:HG11	1:246:A:ILE:HB	1	0.11
(1,1047)	1:240:A:VAL:HG12	1:246:A:ILE:HB	1	0.11
(1,1047)	1:240:A:VAL:HG13	1:246:A:ILE:HB	1	0.11
(1,1007)	1:238:A:ARG:HD2	1:239:A:LEU:H	2	0.11
(1,970)	1:237:A:VAL:HB	1:250:A:GLU:H	8	0.11
(1,970)	1:237:A:VAL:HB	1:250:A:GLU:H	10	0.11
(1,970)	1:237:A:VAL:HB	1:250:A:GLU:H	11	0.11
(1,970)	1:237:A:VAL:HB	1:250:A:GLU:H	15	0.11
(1,947)	1:235:A:LYS:HG3	1:253:A:ASN:HB3	19	0.11
(1,936)	1:235:A:LYS:HB2	1:236:A:GLU:H	3	0.11
(1,936)	1:235:A:LYS:HB2	1:236:A:GLU:H	5	0.11
(1,936)	1:235:A:LYS:HB2	1:236:A:GLU:H	14	0.11
(1,936)	1:235:A:LYS:HB2	1:236:A:GLU:H	16	0.11
(1,933)	1:235:A:LYS:H	1:252:A:ASP:H	2	0.11
(1,933)	1:235:A:LYS:H	1:252:A:ASP:H	4	0.11
(1,933)	1:235:A:LYS:H	1:252:A:ASP:H	7	0.11
(1,933)	1:235:A:LYS:H	1:252:A:ASP:H	10	0.11
(1,933)	1:235:A:LYS:H	1:252:A:ASP:H	14	0.11
(1,933)	1:235:A:LYS:H	1:252:A:ASP:H	18	0.11
(1,885)	1:233:A:GLY:H	1:234:A:PHE:H	7	0.11
(1,885)	1:233:A:GLY:H	1:234:A:PHE:H	9	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,885)	1:233:A:GLY:H	1:234:A:PHE:H	11	0.11
(1,885)	1:233:A:GLY:H	1:234:A:PHE:H	17	0.11
(1,885)	1:233:A:GLY:H	1:234:A:PHE:H	19	0.11
(1,880)	1:232:A:PRO:HA	1:233:A:GLY:H	13	0.11
(1,871)	1:231:A:PHE:HD1	1:260:A:ALA:HB1	13	0.11
(1,871)	1:231:A:PHE:HD1	1:260:A:ALA:HB2	13	0.11
(1,871)	1:231:A:PHE:HD1	1:260:A:ALA:HB3	13	0.11
(1,871)	1:231:A:PHE:HD2	1:260:A:ALA:HB1	13	0.11
(1,871)	1:231:A:PHE:HD2	1:260:A:ALA:HB2	13	0.11
(1,871)	1:231:A:PHE:HD2	1:260:A:ALA:HB3	13	0.11
(1,866)	1:231:A:PHE:HB3	1:251:A:PHE:HD1	7	0.11
(1,866)	1:231:A:PHE:HB3	1:251:A:PHE:HD2	7	0.11
(1,866)	1:231:A:PHE:HB3	1:251:A:PHE:HD1	18	0.11
(1,866)	1:231:A:PHE:HB3	1:251:A:PHE:HD2	18	0.11
(1,866)	1:231:A:PHE:HB3	1:251:A:PHE:HD1	19	0.11
(1,866)	1:231:A:PHE:HB3	1:251:A:PHE:HD2	19	0.11
(1,866)	1:231:A:PHE:HB3	1:251:A:PHE:HD1	20	0.11
(1,866)	1:231:A:PHE:HB3	1:251:A:PHE:HD2	20	0.11
(1,861)	1:231:A:PHE:HB2	1:251:A:PHE:HD1	12	0.11
(1,861)	1:231:A:PHE:HB2	1:251:A:PHE:HD2	12	0.11
(1,857)	1:231:A:PHE:H	1:234:A:PHE:HD1	6	0.11
(1,857)	1:231:A:PHE:H	1:234:A:PHE:HD2	6	0.11
(1,857)	1:231:A:PHE:H	1:234:A:PHE:HD1	11	0.11
(1,857)	1:231:A:PHE:H	1:234:A:PHE:HD2	11	0.11
(1,857)	1:231:A:PHE:H	1:234:A:PHE:HD1	15	0.11
(1,857)	1:231:A:PHE:H	1:234:A:PHE:HD2	15	0.11
(1,817)	1:228:A:PHE:HE1	1:264:A:LEU:HG	13	0.11
(1,817)	1:228:A:PHE:HE2	1:264:A:LEU:HG	13	0.11
(1,808)	1:228:A:PHE:HD1	1:229:A:ASN:H	4	0.11
(1,808)	1:228:A:PHE:HD2	1:229:A:ASN:H	4	0.11
(1,808)	1:228:A:PHE:HD1	1:229:A:ASN:H	5	0.11
(1,808)	1:228:A:PHE:HD2	1:229:A:ASN:H	5	0.11
(1,773)	1:227:A:LEU:HD11	1:269:A:ILE:HG21	2	0.11
(1,773)	1:227:A:LEU:HD11	1:269:A:ILE:HG22	2	0.11
(1,773)	1:227:A:LEU:HD11	1:269:A:ILE:HG23	2	0.11
(1,773)	1:227:A:LEU:HD12	1:269:A:ILE:HG21	2	0.11
(1,773)	1:227:A:LEU:HD12	1:269:A:ILE:HG22	2	0.11
(1,773)	1:227:A:LEU:HD12	1:269:A:ILE:HG23	2	0.11
(1,773)	1:227:A:LEU:HD13	1:269:A:ILE:HG21	2	0.11
(1,773)	1:227:A:LEU:HD13	1:269:A:ILE:HG22	2	0.11
(1,773)	1:227:A:LEU:HD13	1:269:A:ILE:HG23	2	0.11
(1,773)	1:227:A:LEU:HD11	1:269:A:ILE:HG21	3	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,773)	1:227:A:LEU:HD11	1:269:A:ILE:HG22	3	0.11
(1,773)	1:227:A:LEU:HD11	1:269:A:ILE:HG23	3	0.11
(1,773)	1:227:A:LEU:HD12	1:269:A:ILE:HG21	3	0.11
(1,773)	1:227:A:LEU:HD12	1:269:A:ILE:HG22	3	0.11
(1,773)	1:227:A:LEU:HD12	1:269:A:ILE:HG23	3	0.11
(1,773)	1:227:A:LEU:HD13	1:269:A:ILE:HG21	3	0.11
(1,773)	1:227:A:LEU:HD13	1:269:A:ILE:HG22	3	0.11
(1,773)	1:227:A:LEU:HD13	1:269:A:ILE:HG23	3	0.11
(1,773)	1:227:A:LEU:HD11	1:269:A:ILE:HG21	14	0.11
(1,773)	1:227:A:LEU:HD11	1:269:A:ILE:HG22	14	0.11
(1,773)	1:227:A:LEU:HD11	1:269:A:ILE:HG23	14	0.11
(1,773)	1:227:A:LEU:HD12	1:269:A:ILE:HG21	14	0.11
(1,773)	1:227:A:LEU:HD12	1:269:A:ILE:HG22	14	0.11
(1,773)	1:227:A:LEU:HD12	1:269:A:ILE:HG23	14	0.11
(1,773)	1:227:A:LEU:HD13	1:269:A:ILE:HG21	14	0.11
(1,773)	1:227:A:LEU:HD13	1:269:A:ILE:HG22	14	0.11
(1,773)	1:227:A:LEU:HD13	1:269:A:ILE:HG23	14	0.11
(1,773)	1:227:A:LEU:HD11	1:269:A:ILE:HG21	16	0.11
(1,773)	1:227:A:LEU:HD11	1:269:A:ILE:HG22	16	0.11
(1,773)	1:227:A:LEU:HD11	1:269:A:ILE:HG23	16	0.11
(1,773)	1:227:A:LEU:HD12	1:269:A:ILE:HG21	16	0.11
(1,773)	1:227:A:LEU:HD12	1:269:A:ILE:HG22	16	0.11
(1,773)	1:227:A:LEU:HD12	1:269:A:ILE:HG23	16	0.11
(1,773)	1:227:A:LEU:HD13	1:269:A:ILE:HG21	16	0.11
(1,773)	1:227:A:LEU:HD13	1:269:A:ILE:HG22	16	0.11
(1,773)	1:227:A:LEU:HD13	1:269:A:ILE:HG23	16	0.11
(1,773)	1:227:A:LEU:HD11	1:269:A:ILE:HG21	18	0.11
(1,773)	1:227:A:LEU:HD11	1:269:A:ILE:HG22	18	0.11
(1,773)	1:227:A:LEU:HD11	1:269:A:ILE:HG23	18	0.11
(1,773)	1:227:A:LEU:HD12	1:269:A:ILE:HG21	18	0.11
(1,773)	1:227:A:LEU:HD12	1:269:A:ILE:HG22	18	0.11
(1,773)	1:227:A:LEU:HD12	1:269:A:ILE:HG23	18	0.11
(1,773)	1:227:A:LEU:HD13	1:269:A:ILE:HG21	18	0.11
(1,773)	1:227:A:LEU:HD13	1:269:A:ILE:HG22	18	0.11
(1,773)	1:227:A:LEU:HD13	1:269:A:ILE:HG23	18	0.11
(1,760)	1:227:A:LEU:HB3	1:228:A:PHE:H	1	0.11
(1,760)	1:227:A:LEU:HB3	1:228:A:PHE:H	2	0.11
(1,760)	1:227:A:LEU:HB3	1:228:A:PHE:H	5	0.11
(1,760)	1:227:A:LEU:HB3	1:228:A:PHE:H	6	0.11
(1,760)	1:227:A:LEU:HB3	1:228:A:PHE:H	7	0.11
(1,760)	1:227:A:LEU:HB3	1:228:A:PHE:H	8	0.11
(1,760)	1:227:A:LEU:HB3	1:228:A:PHE:H	11	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,760)	1:227:A:LEU:HB3	1:228:A:PHE:H	12	0.11
(1,760)	1:227:A:LEU:HB3	1:228:A:PHE:H	13	0.11
(1,760)	1:227:A:LEU:HB3	1:228:A:PHE:H	14	0.11
(1,760)	1:227:A:LEU:HB3	1:228:A:PHE:H	16	0.11
(1,760)	1:227:A:LEU:HB3	1:228:A:PHE:H	20	0.11
(1,717)	1:225:A:SER:HB2	1:237:A:VAL:H	3	0.11
(1,717)	1:225:A:SER:HB3	1:237:A:VAL:H	3	0.11
(1,696)	1:224:A:LEU:HD11	1:225:A:SER:H	1	0.11
(1,696)	1:224:A:LEU:HD12	1:225:A:SER:H	1	0.11
(1,696)	1:224:A:LEU:HD13	1:225:A:SER:H	1	0.11
(1,696)	1:224:A:LEU:HD11	1:225:A:SER:H	6	0.11
(1,696)	1:224:A:LEU:HD12	1:225:A:SER:H	6	0.11
(1,696)	1:224:A:LEU:HD13	1:225:A:SER:H	6	0.11
(1,696)	1:224:A:LEU:HD11	1:225:A:SER:H	8	0.11
(1,696)	1:224:A:LEU:HD12	1:225:A:SER:H	8	0.11
(1,696)	1:224:A:LEU:HD13	1:225:A:SER:H	8	0.11
(1,696)	1:224:A:LEU:HD11	1:225:A:SER:H	15	0.11
(1,696)	1:224:A:LEU:HD12	1:225:A:SER:H	15	0.11
(1,696)	1:224:A:LEU:HD13	1:225:A:SER:H	15	0.11
(1,696)	1:224:A:LEU:HD11	1:225:A:SER:H	17	0.11
(1,696)	1:224:A:LEU:HD12	1:225:A:SER:H	17	0.11
(1,696)	1:224:A:LEU:HD13	1:225:A:SER:H	17	0.11
(1,696)	1:224:A:LEU:HD11	1:225:A:SER:H	18	0.11
(1,696)	1:224:A:LEU:HD12	1:225:A:SER:H	18	0.11
(1,696)	1:224:A:LEU:HD13	1:225:A:SER:H	18	0.11
(1,674)	1:224:A:LEU:H	1:224:A:LEU:HG	3	0.11
(1,674)	1:224:A:LEU:H	1:224:A:LEU:HG	8	0.11
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD11	1	0.11
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD12	1	0.11
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD13	1	0.11
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD11	2	0.11
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD12	2	0.11
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD13	2	0.11
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD11	3	0.11
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD12	3	0.11
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD13	3	0.11
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD11	5	0.11
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD12	5	0.11
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD13	5	0.11
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD11	6	0.11
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD12	6	0.11
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD13	6	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD11	7	0.11
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD12	7	0.11
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD13	7	0.11
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD11	9	0.11
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD12	9	0.11
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD13	9	0.11
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD11	10	0.11
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD12	10	0.11
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD13	10	0.11
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD11	15	0.11
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD12	15	0.11
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD13	15	0.11
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD11	17	0.11
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD12	17	0.11
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD13	17	0.11
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD11	19	0.11
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD12	19	0.11
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD13	19	0.11
(1,656)	1:223:A:MET:HB2	1:224:A:LEU:H	2	0.11
(1,622)	1:221:A:GLU:HG3	1:239:A:LEU:H	15	0.11
(1,618)	1:221:A:GLU:HG2	1:239:A:LEU:H	19	0.11
(1,615)	1:221:A:GLU:HG2	1:234:A:PHE:HZ	13	0.11
(1,613)	1:221:A:GLU:HB3	1:239:A:LEU:HD21	3	0.11
(1,613)	1:221:A:GLU:HB3	1:239:A:LEU:HD22	3	0.11
(1,613)	1:221:A:GLU:HB3	1:239:A:LEU:HD23	3	0.11
(1,613)	1:221:A:GLU:HB3	1:239:A:LEU:HD21	8	0.11
(1,613)	1:221:A:GLU:HB3	1:239:A:LEU:HD22	8	0.11
(1,613)	1:221:A:GLU:HB3	1:239:A:LEU:HD23	8	0.11
(1,613)	1:221:A:GLU:HB3	1:239:A:LEU:HD21	10	0.11
(1,613)	1:221:A:GLU:HB3	1:239:A:LEU:HD22	10	0.11
(1,613)	1:221:A:GLU:HB3	1:239:A:LEU:HD23	10	0.11
(1,613)	1:221:A:GLU:HB3	1:239:A:LEU:HD21	12	0.11
(1,613)	1:221:A:GLU:HB3	1:239:A:LEU:HD22	12	0.11
(1,613)	1:221:A:GLU:HB3	1:239:A:LEU:HD23	12	0.11
(1,613)	1:221:A:GLU:HB3	1:239:A:LEU:HD21	14	0.11
(1,613)	1:221:A:GLU:HB3	1:239:A:LEU:HD22	14	0.11
(1,613)	1:221:A:GLU:HB3	1:239:A:LEU:HD23	14	0.11
(1,613)	1:221:A:GLU:HB3	1:239:A:LEU:HD21	16	0.11
(1,613)	1:221:A:GLU:HB3	1:239:A:LEU:HD22	16	0.11
(1,613)	1:221:A:GLU:HB3	1:239:A:LEU:HD23	16	0.11
(1,613)	1:221:A:GLU:HB3	1:239:A:LEU:HD21	20	0.11
(1,613)	1:221:A:GLU:HB3	1:239:A:LEU:HD22	20	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,613)	1:221:A:GLU:HB3	1:239:A:LEU:HD23	20	0.11
(1,559)	1:219:A:THR:HG21	1:227:A:LEU:HG	1	0.11
(1,559)	1:219:A:THR:HG22	1:227:A:LEU:HG	1	0.11
(1,559)	1:219:A:THR:HG23	1:227:A:LEU:HG	1	0.11
(1,559)	1:219:A:THR:HG21	1:227:A:LEU:HG	7	0.11
(1,559)	1:219:A:THR:HG22	1:227:A:LEU:HG	7	0.11
(1,559)	1:219:A:THR:HG23	1:227:A:LEU:HG	7	0.11
(1,559)	1:219:A:THR:HG21	1:227:A:LEU:HG	11	0.11
(1,559)	1:219:A:THR:HG22	1:227:A:LEU:HG	11	0.11
(1,559)	1:219:A:THR:HG23	1:227:A:LEU:HG	11	0.11
(1,559)	1:219:A:THR:HG21	1:227:A:LEU:HG	19	0.11
(1,559)	1:219:A:THR:HG22	1:227:A:LEU:HG	19	0.11
(1,559)	1:219:A:THR:HG23	1:227:A:LEU:HG	19	0.11
(1,530)	1:217:A:GLU:HG2	1:244:A:HIS:HB2	17	0.11
(1,530)	1:217:A:GLU:HG3	1:244:A:HIS:HB2	17	0.11
(1,489)	1:216:A:PRO:HB2	1:269:A:ILE:HD11	8	0.11
(1,489)	1:216:A:PRO:HB2	1:269:A:ILE:HD12	8	0.11
(1,489)	1:216:A:PRO:HB2	1:269:A:ILE:HD13	8	0.11
(1,489)	1:216:A:PRO:HB2	1:269:A:ILE:HD11	17	0.11
(1,489)	1:216:A:PRO:HB2	1:269:A:ILE:HD12	17	0.11
(1,489)	1:216:A:PRO:HB2	1:269:A:ILE:HD13	17	0.11
(1,453)	1:215:A:LEU:HD11	1:224:A:LEU:HG	17	0.11
(1,453)	1:215:A:LEU:HD12	1:224:A:LEU:HG	17	0.11
(1,453)	1:215:A:LEU:HD13	1:224:A:LEU:HG	17	0.11
(1,435)	1:215:A:LEU:HA	1:269:A:ILE:HG21	20	0.11
(1,435)	1:215:A:LEU:HA	1:269:A:ILE:HG22	20	0.11
(1,435)	1:215:A:LEU:HA	1:269:A:ILE:HG23	20	0.11
(1,429)	1:215:A:LEU:H	1:269:A:ILE:HD11	12	0.11
(1,429)	1:215:A:LEU:H	1:269:A:ILE:HD12	12	0.11
(1,429)	1:215:A:LEU:H	1:269:A:ILE:HD13	12	0.11
(1,418)	1:214:A:ASN:HD21	1:276:A:LYS:HG3	1	0.11
(1,417)	1:214:A:ASN:HD21	1:274:A:ALA:HB1	13	0.11
(1,417)	1:214:A:ASN:HD21	1:274:A:ALA:HB2	13	0.11
(1,417)	1:214:A:ASN:HD21	1:274:A:ALA:HB3	13	0.11
(1,411)	1:214:A:ASN:HB3	1:276:A:LYS:H	10	0.11
(1,403)	1:214:A:ASN:HB2	1:276:A:LYS:H	5	0.11
(1,403)	1:214:A:ASN:HB2	1:276:A:LYS:H	15	0.11
(1,403)	1:214:A:ASN:HB2	1:276:A:LYS:H	16	0.11
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG21	4	0.11
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG22	4	0.11
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG23	4	0.11
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG21	5	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG22	5	0.11
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG23	5	0.11
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG21	6	0.11
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG22	6	0.11
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG23	6	0.11
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG21	9	0.11
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG22	9	0.11
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG23	9	0.11
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG21	17	0.11
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG22	17	0.11
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG23	17	0.11
(1,357)	1:212:A:LEU:HD21	1:264:A:LEU:HD11	1	0.11
(1,357)	1:212:A:LEU:HD21	1:264:A:LEU:HD12	1	0.11
(1,357)	1:212:A:LEU:HD21	1:264:A:LEU:HD13	1	0.11
(1,357)	1:212:A:LEU:HD22	1:264:A:LEU:HD11	1	0.11
(1,357)	1:212:A:LEU:HD22	1:264:A:LEU:HD12	1	0.11
(1,357)	1:212:A:LEU:HD22	1:264:A:LEU:HD13	1	0.11
(1,357)	1:212:A:LEU:HD23	1:264:A:LEU:HD11	1	0.11
(1,357)	1:212:A:LEU:HD23	1:264:A:LEU:HD12	1	0.11
(1,357)	1:212:A:LEU:HD23	1:264:A:LEU:HD13	1	0.11
(1,357)	1:212:A:LEU:HD21	1:264:A:LEU:HD11	6	0.11
(1,357)	1:212:A:LEU:HD21	1:264:A:LEU:HD12	6	0.11
(1,357)	1:212:A:LEU:HD21	1:264:A:LEU:HD13	6	0.11
(1,357)	1:212:A:LEU:HD22	1:264:A:LEU:HD11	6	0.11
(1,357)	1:212:A:LEU:HD22	1:264:A:LEU:HD12	6	0.11
(1,357)	1:212:A:LEU:HD22	1:264:A:LEU:HD13	6	0.11
(1,357)	1:212:A:LEU:HD23	1:264:A:LEU:HD11	6	0.11
(1,357)	1:212:A:LEU:HD23	1:264:A:LEU:HD12	6	0.11
(1,357)	1:212:A:LEU:HD23	1:264:A:LEU:HD13	6	0.11
(1,357)	1:212:A:LEU:HD21	1:264:A:LEU:HD11	20	0.11
(1,357)	1:212:A:LEU:HD21	1:264:A:LEU:HD12	20	0.11
(1,357)	1:212:A:LEU:HD21	1:264:A:LEU:HD13	20	0.11
(1,357)	1:212:A:LEU:HD22	1:264:A:LEU:HD11	20	0.11
(1,357)	1:212:A:LEU:HD22	1:264:A:LEU:HD12	20	0.11
(1,357)	1:212:A:LEU:HD22	1:264:A:LEU:HD13	20	0.11
(1,357)	1:212:A:LEU:HD23	1:264:A:LEU:HD11	20	0.11
(1,357)	1:212:A:LEU:HD23	1:264:A:LEU:HD12	20	0.11
(1,357)	1:212:A:LEU:HD23	1:264:A:LEU:HD13	20	0.11
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG21	2	0.11
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG22	2	0.11
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG23	2	0.11
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG21	2	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG22	2	0.11
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG23	2	0.11
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG21	2	0.11
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG22	2	0.11
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG23	2	0.11
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG21	7	0.11
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG22	7	0.11
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG23	7	0.11
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG21	7	0.11
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG22	7	0.11
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG23	7	0.11
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG21	7	0.11
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG22	7	0.11
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG23	7	0.11
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG21	11	0.11
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG22	11	0.11
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG23	11	0.11
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG21	11	0.11
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG22	11	0.11
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG23	11	0.11
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG21	11	0.11
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG22	11	0.11
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG23	11	0.11
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG21	12	0.11
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG22	12	0.11
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG23	12	0.11
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG21	12	0.11
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG22	12	0.11
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG23	12	0.11
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG21	12	0.11
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG22	12	0.11
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG23	12	0.11
(1,286)	1:211:A:PHE:HD1	1:246:A:ILE:HD11	2	0.11
(1,286)	1:211:A:PHE:HD1	1:246:A:ILE:HD12	2	0.11
(1,286)	1:211:A:PHE:HD1	1:246:A:ILE:HD13	2	0.11
(1,286)	1:211:A:PHE:HD2	1:246:A:ILE:HD11	2	0.11
(1,286)	1:211:A:PHE:HD2	1:246:A:ILE:HD12	2	0.11
(1,286)	1:211:A:PHE:HD2	1:246:A:ILE:HD13	2	0.11
(1,278)	1:211:A:PHE:HZ	1:213:A:THR:HB	6	0.11
(1,278)	1:211:A:PHE:HZ	1:213:A:THR:HB	10	0.11
(1,238)	1:210:A:LEU:HD11	1:279:A:PHE:HB2	20	0.11
(1,238)	1:210:A:LEU:HD12	1:279:A:PHE:HB2	20	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,238)	1:210:A:LEU:HD13	1:279:A:PHE:HB2	20	0.11
(1,218)	1:210:A:LEU:HG	1:261:A:ARG:H	1	0.11
(1,218)	1:210:A:LEU:HG	1:261:A:ARG:H	9	0.11
(1,183)	1:209:A:ILE:HG21	1:249:A:VAL:H	5	0.11
(1,183)	1:209:A:ILE:HG22	1:249:A:VAL:H	5	0.11
(1,183)	1:209:A:ILE:HG23	1:249:A:VAL:H	5	0.11
(1,179)	1:209:A:ILE:HG21	1:238:A:ARG:HB2	7	0.11
(1,179)	1:209:A:ILE:HG22	1:238:A:ARG:HB2	7	0.11
(1,179)	1:209:A:ILE:HG23	1:238:A:ARG:HB2	7	0.11
(1,179)	1:209:A:ILE:HG21	1:238:A:ARG:HB2	12	0.11
(1,179)	1:209:A:ILE:HG22	1:238:A:ARG:HB2	12	0.11
(1,179)	1:209:A:ILE:HG23	1:238:A:ARG:HB2	12	0.11
(1,179)	1:209:A:ILE:HG21	1:238:A:ARG:HB2	16	0.11
(1,179)	1:209:A:ILE:HG22	1:238:A:ARG:HB2	16	0.11
(1,179)	1:209:A:ILE:HG23	1:238:A:ARG:HB2	16	0.11
(1,167)	1:209:A:ILE:HD11	1:236:A:GLU:H	12	0.11
(1,167)	1:209:A:ILE:HD12	1:236:A:GLU:H	12	0.11
(1,167)	1:209:A:ILE:HD13	1:236:A:GLU:H	12	0.11
(1,167)	1:209:A:ILE:HD11	1:236:A:GLU:H	18	0.11
(1,167)	1:209:A:ILE:HD12	1:236:A:GLU:H	18	0.11
(1,167)	1:209:A:ILE:HD13	1:236:A:GLU:H	18	0.11
(1,123)	1:208:A:HIS:HA	1:257:A:ALA:H	17	0.11
(1,116)	1:207:A:ASN:HD22	1:280:A:ALA:H	7	0.11
(1,116)	1:207:A:ASN:HD22	1:280:A:ALA:H	18	0.11
(1,114)	1:207:A:ASN:HD22	1:210:A:LEU:H	7	0.11
(1,114)	1:207:A:ASN:HD22	1:210:A:LEU:H	9	0.11
(1,114)	1:207:A:ASN:HD22	1:210:A:LEU:H	14	0.11
(1,114)	1:207:A:ASN:HD22	1:210:A:LEU:H	18	0.11
(1,108)	1:207:A:ASN:HD21	1:282:A:LYS:HD2	9	0.11
(1,108)	1:207:A:ASN:HD21	1:282:A:LYS:HD3	9	0.11
(1,62)	1:204:A:ASN:HD21	1:281:A:LYS:HA	3	0.11
(1,62)	1:204:A:ASN:HD21	1:281:A:LYS:HA	15	0.11
(1,16)	1:193:A:GLY:HA2	1:195:A:MET:HA	17	0.11
(1,16)	1:193:A:GLY:HA3	1:195:A:MET:HA	17	0.11
(1,10)	1:192:A:PRO:HG2	1:195:A:MET:HG2	1	0.11
(1,10)	1:192:A:PRO:HG2	1:195:A:MET:HG3	1	0.11
(1,10)	1:192:A:PRO:HG3	1:195:A:MET:HG2	1	0.11
(1,10)	1:192:A:PRO:HG3	1:195:A:MET:HG3	1	0.11
(2,38)	1:227:A:LEU:H	1:224:A:LEU:O	6	0.1
(2,38)	1:227:A:LEU:H	1:224:A:LEU:O	8	0.1
(2,22)	1:220:A:ASN:O	1:223:A:MET:H	7	0.1
(2,22)	1:220:A:ASN:O	1:223:A:MET:H	19	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,10)	1:214:A:ASN:H	1:245:A:ASP:O	17	0.1
(1,1563)	1:278:A:SER:H	1:280:A:ALA:H	7	0.1
(1,1563)	1:278:A:SER:H	1:280:A:ALA:H	8	0.1
(1,1563)	1:278:A:SER:H	1:280:A:ALA:H	16	0.1
(1,1548)	1:276:A:LYS:HD2	1:277:A:ILE:H	7	0.1
(1,1548)	1:276:A:LYS:HD3	1:277:A:ILE:H	7	0.1
(1,1526)	1:275:A:MET:H	1:276:A:LYS:H	1	0.1
(1,1526)	1:275:A:MET:H	1:276:A:LYS:H	10	0.1
(1,1518)	1:274:A:ALA:H	1:276:A:LYS:HD2	16	0.1
(1,1518)	1:274:A:ALA:H	1:276:A:LYS:HD3	16	0.1
(1,1489)	1:270:A:THR:HG21	1:271:A:GLN:HG2	11	0.1
(1,1489)	1:270:A:THR:HG21	1:271:A:GLN:HG3	11	0.1
(1,1489)	1:270:A:THR:HG22	1:271:A:GLN:HG2	11	0.1
(1,1489)	1:270:A:THR:HG22	1:271:A:GLN:HG3	11	0.1
(1,1489)	1:270:A:THR:HG23	1:271:A:GLN:HG2	11	0.1
(1,1489)	1:270:A:THR:HG23	1:271:A:GLN:HG3	11	0.1
(1,1458)	1:268:A:LYS:HG2	1:269:A:ILE:H	7	0.1
(1,1458)	1:268:A:LYS:HG3	1:269:A:ILE:H	7	0.1
(1,1456)	1:268:A:LYS:HD2	1:269:A:ILE:HA	16	0.1
(1,1456)	1:268:A:LYS:HD3	1:269:A:ILE:HA	16	0.1
(1,1432)	1:267:A:PHE:HD1	1:269:A:ILE:HB	9	0.1
(1,1432)	1:267:A:PHE:HD2	1:269:A:ILE:HB	9	0.1
(1,1426)	1:267:A:PHE:HB3	1:275:A:MET:HE1	6	0.1
(1,1426)	1:267:A:PHE:HB3	1:275:A:MET:HE2	6	0.1
(1,1426)	1:267:A:PHE:HB3	1:275:A:MET:HE3	6	0.1
(1,1426)	1:267:A:PHE:HB3	1:275:A:MET:HE1	16	0.1
(1,1426)	1:267:A:PHE:HB3	1:275:A:MET:HE2	16	0.1
(1,1426)	1:267:A:PHE:HB3	1:275:A:MET:HE3	16	0.1
(1,1411)	1:267:A:PHE:H	1:269:A:ILE:H	8	0.1
(1,1411)	1:267:A:PHE:H	1:269:A:ILE:H	16	0.1
(1,1196)	1:253:A:ASN:H	1:256:A:GLN:HA	10	0.1
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB1	6	0.1
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB2	6	0.1
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB3	6	0.1
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB1	6	0.1
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB2	6	0.1
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB3	6	0.1
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB1	15	0.1
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB2	15	0.1
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB3	15	0.1
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB1	15	0.1
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB2	15	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB3	15	0.1
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB1	19	0.1
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB2	19	0.1
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB3	19	0.1
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB1	19	0.1
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB2	19	0.1
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB3	19	0.1
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB1	20	0.1
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB2	20	0.1
(1,1147)	1:250:A:GLU:HB2	1:257:A:ALA:HB3	20	0.1
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB1	20	0.1
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB2	20	0.1
(1,1147)	1:250:A:GLU:HB3	1:257:A:ALA:HB3	20	0.1
(1,1143)	1:250:A:GLU:HA	1:251:A:PHE:HD1	8	0.1
(1,1143)	1:250:A:GLU:HA	1:251:A:PHE:HD2	8	0.1
(1,1137)	1:249:A:VAL:HG21	1:250:A:GLU:HA	3	0.1
(1,1137)	1:249:A:VAL:HG22	1:250:A:GLU:HA	3	0.1
(1,1137)	1:249:A:VAL:HG23	1:250:A:GLU:HA	3	0.1
(1,1137)	1:249:A:VAL:HG21	1:250:A:GLU:HA	20	0.1
(1,1137)	1:249:A:VAL:HG22	1:250:A:GLU:HA	20	0.1
(1,1137)	1:249:A:VAL:HG23	1:250:A:GLU:HA	20	0.1
(1,1121)	1:248:A:PHE:HD1	1:249:A:VAL:H	6	0.1
(1,1121)	1:248:A:PHE:HD2	1:249:A:VAL:H	6	0.1
(1,1090)	1:246:A:ILE:H	1:246:A:ILE:HD11	20	0.1
(1,1090)	1:246:A:ILE:H	1:246:A:ILE:HD12	20	0.1
(1,1090)	1:246:A:ILE:H	1:246:A:ILE:HD13	20	0.1
(1,1083)	1:245:A:ASP:HA	1:273:A:ASN:HB3	10	0.1
(1,1048)	1:240:A:VAL:HG11	1:248:A:PHE:HD1	7	0.1
(1,1048)	1:240:A:VAL:HG11	1:248:A:PHE:HD2	7	0.1
(1,1048)	1:240:A:VAL:HG12	1:248:A:PHE:HD1	7	0.1
(1,1048)	1:240:A:VAL:HG12	1:248:A:PHE:HD2	7	0.1
(1,1048)	1:240:A:VAL:HG13	1:248:A:PHE:HD1	7	0.1
(1,1048)	1:240:A:VAL:HG13	1:248:A:PHE:HD2	7	0.1
(1,1047)	1:240:A:VAL:HG11	1:246:A:ILE:HB	10	0.1
(1,1047)	1:240:A:VAL:HG12	1:246:A:ILE:HB	10	0.1
(1,1047)	1:240:A:VAL:HG13	1:246:A:ILE:HB	10	0.1
(1,1011)	1:238:A:ARG:HD2	1:239:A:LEU:H	9	0.1
(1,1011)	1:238:A:ARG:HD3	1:239:A:LEU:H	9	0.1
(1,1011)	1:238:A:ARG:HD2	1:239:A:LEU:H	19	0.1
(1,1011)	1:238:A:ARG:HD3	1:239:A:LEU:H	19	0.1
(1,970)	1:237:A:VAL:HB	1:250:A:GLU:H	13	0.1
(1,970)	1:237:A:VAL:HB	1:250:A:GLU:H	19	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,948)	1:235:A:LYS:HD2	1:236:A:GLU:HB2	6	0.1
(1,948)	1:235:A:LYS:HD3	1:236:A:GLU:HB2	6	0.1
(1,941)	1:235:A:LYS:HB2	1:253:A:ASN:HB3	2	0.1
(1,941)	1:235:A:LYS:HB2	1:253:A:ASN:HB3	15	0.1
(1,941)	1:235:A:LYS:HB2	1:253:A:ASN:HB3	18	0.1
(1,933)	1:235:A:LYS:H	1:252:A:ASP:H	16	0.1
(1,899)	1:234:A:PHE:H	1:234:A:PHE:HD1	12	0.1
(1,899)	1:234:A:PHE:H	1:234:A:PHE:HD2	12	0.1
(1,871)	1:231:A:PHE:HD1	1:260:A:ALA:HB1	10	0.1
(1,871)	1:231:A:PHE:HD1	1:260:A:ALA:HB2	10	0.1
(1,871)	1:231:A:PHE:HD1	1:260:A:ALA:HB3	10	0.1
(1,871)	1:231:A:PHE:HD2	1:260:A:ALA:HB1	10	0.1
(1,871)	1:231:A:PHE:HD2	1:260:A:ALA:HB2	10	0.1
(1,871)	1:231:A:PHE:HD2	1:260:A:ALA:HB3	10	0.1
(1,871)	1:231:A:PHE:HD1	1:260:A:ALA:HB1	12	0.1
(1,871)	1:231:A:PHE:HD1	1:260:A:ALA:HB2	12	0.1
(1,871)	1:231:A:PHE:HD1	1:260:A:ALA:HB3	12	0.1
(1,871)	1:231:A:PHE:HD2	1:260:A:ALA:HB1	12	0.1
(1,871)	1:231:A:PHE:HD2	1:260:A:ALA:HB2	12	0.1
(1,871)	1:231:A:PHE:HD2	1:260:A:ALA:HB3	12	0.1
(1,857)	1:231:A:PHE:H	1:234:A:PHE:HD1	8	0.1
(1,857)	1:231:A:PHE:H	1:234:A:PHE:HD2	8	0.1
(1,760)	1:227:A:LEU:HB3	1:228:A:PHE:H	3	0.1
(1,760)	1:227:A:LEU:HB3	1:228:A:PHE:H	9	0.1
(1,760)	1:227:A:LEU:HB3	1:228:A:PHE:H	17	0.1
(1,696)	1:224:A:LEU:HD11	1:225:A:SER:H	2	0.1
(1,696)	1:224:A:LEU:HD12	1:225:A:SER:H	2	0.1
(1,696)	1:224:A:LEU:HD13	1:225:A:SER:H	2	0.1
(1,696)	1:224:A:LEU:HD11	1:225:A:SER:H	4	0.1
(1,696)	1:224:A:LEU:HD12	1:225:A:SER:H	4	0.1
(1,696)	1:224:A:LEU:HD13	1:225:A:SER:H	4	0.1
(1,696)	1:224:A:LEU:HD11	1:225:A:SER:H	7	0.1
(1,696)	1:224:A:LEU:HD12	1:225:A:SER:H	7	0.1
(1,696)	1:224:A:LEU:HD13	1:225:A:SER:H	7	0.1
(1,696)	1:224:A:LEU:HD11	1:225:A:SER:H	9	0.1
(1,696)	1:224:A:LEU:HD12	1:225:A:SER:H	9	0.1
(1,696)	1:224:A:LEU:HD13	1:225:A:SER:H	9	0.1
(1,696)	1:224:A:LEU:HD11	1:225:A:SER:H	12	0.1
(1,696)	1:224:A:LEU:HD12	1:225:A:SER:H	12	0.1
(1,696)	1:224:A:LEU:HD13	1:225:A:SER:H	12	0.1
(1,696)	1:224:A:LEU:HD11	1:225:A:SER:H	14	0.1
(1,696)	1:224:A:LEU:HD12	1:225:A:SER:H	14	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,696)	1:224:A:LEU:HD13	1:225:A:SER:H	14	0.1
(1,696)	1:224:A:LEU:HD11	1:225:A:SER:H	19	0.1
(1,696)	1:224:A:LEU:HD12	1:225:A:SER:H	19	0.1
(1,696)	1:224:A:LEU:HD13	1:225:A:SER:H	19	0.1
(1,696)	1:224:A:LEU:HD11	1:225:A:SER:H	20	0.1
(1,696)	1:224:A:LEU:HD12	1:225:A:SER:H	20	0.1
(1,696)	1:224:A:LEU:HD13	1:225:A:SER:H	20	0.1
(1,684)	1:224:A:LEU:HB2	1:225:A:SER:H	10	0.1
(1,674)	1:224:A:LEU:H	1:224:A:LEU:HG	13	0.1
(1,674)	1:224:A:LEU:H	1:224:A:LEU:HG	14	0.1
(1,674)	1:224:A:LEU:H	1:224:A:LEU:HG	17	0.1
(1,674)	1:224:A:LEU:H	1:224:A:LEU:HG	18	0.1
(1,674)	1:224:A:LEU:H	1:224:A:LEU:HG	20	0.1
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD11	13	0.1
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD12	13	0.1
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD13	13	0.1
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD11	18	0.1
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD12	18	0.1
(1,667)	1:223:A:MET:HG3	1:227:A:LEU:HD13	18	0.1
(1,656)	1:223:A:MET:HB2	1:224:A:LEU:H	12	0.1
(1,622)	1:221:A:GLU:HG3	1:239:A:LEU:H	1	0.1
(1,622)	1:221:A:GLU:HG3	1:239:A:LEU:H	17	0.1
(1,613)	1:221:A:GLU:HB3	1:239:A:LEU:HD21	19	0.1
(1,613)	1:221:A:GLU:HB3	1:239:A:LEU:HD22	19	0.1
(1,613)	1:221:A:GLU:HB3	1:239:A:LEU:HD23	19	0.1
(1,559)	1:219:A:THR:HG21	1:227:A:LEU:HG	13	0.1
(1,559)	1:219:A:THR:HG22	1:227:A:LEU:HG	13	0.1
(1,559)	1:219:A:THR:HG23	1:227:A:LEU:HG	13	0.1
(1,559)	1:219:A:THR:HG21	1:227:A:LEU:HG	20	0.1
(1,559)	1:219:A:THR:HG22	1:227:A:LEU:HG	20	0.1
(1,559)	1:219:A:THR:HG23	1:227:A:LEU:HG	20	0.1
(1,435)	1:215:A:LEU:HA	1:269:A:ILE:HG21	16	0.1
(1,435)	1:215:A:LEU:HA	1:269:A:ILE:HG22	16	0.1
(1,435)	1:215:A:LEU:HA	1:269:A:ILE:HG23	16	0.1
(1,429)	1:215:A:LEU:H	1:269:A:ILE:HD11	10	0.1
(1,429)	1:215:A:LEU:H	1:269:A:ILE:HD12	10	0.1
(1,429)	1:215:A:LEU:H	1:269:A:ILE:HD13	10	0.1
(1,403)	1:214:A:ASN:HB2	1:276:A:LYS:H	4	0.1
(1,403)	1:214:A:ASN:HB2	1:276:A:LYS:H	19	0.1
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG21	1	0.1
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG22	1	0.1
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG23	1	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG21	12	0.1
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG22	12	0.1
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG23	12	0.1
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG21	15	0.1
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG22	15	0.1
(1,363)	1:213:A:THR:H	1:246:A:ILE:HG23	15	0.1
(1,359)	1:212:A:LEU:HD21	1:275:A:MET:HG2	13	0.1
(1,359)	1:212:A:LEU:HD21	1:275:A:MET:HG3	13	0.1
(1,359)	1:212:A:LEU:HD22	1:275:A:MET:HG2	13	0.1
(1,359)	1:212:A:LEU:HD22	1:275:A:MET:HG3	13	0.1
(1,359)	1:212:A:LEU:HD23	1:275:A:MET:HG2	13	0.1
(1,359)	1:212:A:LEU:HD23	1:275:A:MET:HG3	13	0.1
(1,357)	1:212:A:LEU:HD21	1:264:A:LEU:HD11	3	0.1
(1,357)	1:212:A:LEU:HD21	1:264:A:LEU:HD12	3	0.1
(1,357)	1:212:A:LEU:HD21	1:264:A:LEU:HD13	3	0.1
(1,357)	1:212:A:LEU:HD22	1:264:A:LEU:HD11	3	0.1
(1,357)	1:212:A:LEU:HD22	1:264:A:LEU:HD12	3	0.1
(1,357)	1:212:A:LEU:HD22	1:264:A:LEU:HD13	3	0.1
(1,357)	1:212:A:LEU:HD23	1:264:A:LEU:HD11	3	0.1
(1,357)	1:212:A:LEU:HD23	1:264:A:LEU:HD12	3	0.1
(1,357)	1:212:A:LEU:HD23	1:264:A:LEU:HD13	3	0.1
(1,357)	1:212:A:LEU:HD21	1:264:A:LEU:HD11	16	0.1
(1,357)	1:212:A:LEU:HD21	1:264:A:LEU:HD12	16	0.1
(1,357)	1:212:A:LEU:HD21	1:264:A:LEU:HD13	16	0.1
(1,357)	1:212:A:LEU:HD22	1:264:A:LEU:HD11	16	0.1
(1,357)	1:212:A:LEU:HD22	1:264:A:LEU:HD12	16	0.1
(1,357)	1:212:A:LEU:HD22	1:264:A:LEU:HD13	16	0.1
(1,357)	1:212:A:LEU:HD23	1:264:A:LEU:HD11	16	0.1
(1,357)	1:212:A:LEU:HD23	1:264:A:LEU:HD12	16	0.1
(1,357)	1:212:A:LEU:HD23	1:264:A:LEU:HD13	16	0.1
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG21	8	0.1
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG22	8	0.1
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG23	8	0.1
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG21	8	0.1
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG22	8	0.1
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG23	8	0.1
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG21	8	0.1
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG22	8	0.1
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG23	8	0.1
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG21	13	0.1
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG22	13	0.1
(1,341)	1:212:A:LEU:HD11	1:249:A:VAL:HG23	13	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG21	13	0.1
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG22	13	0.1
(1,341)	1:212:A:LEU:HD12	1:249:A:VAL:HG23	13	0.1
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG21	13	0.1
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG22	13	0.1
(1,341)	1:212:A:LEU:HD13	1:249:A:VAL:HG23	13	0.1
(1,278)	1:211:A:PHE:HZ	1:213:A:THR:HB	8	0.1
(1,278)	1:211:A:PHE:HZ	1:213:A:THR:HB	17	0.1
(1,218)	1:210:A:LEU:HG	1:261:A:ARG:H	7	0.1
(1,218)	1:210:A:LEU:HG	1:261:A:ARG:H	8	0.1
(1,218)	1:210:A:LEU:HG	1:261:A:ARG:H	15	0.1
(1,195)	1:210:A:LEU:H	1:249:A:VAL:HG21	14	0.1
(1,195)	1:210:A:LEU:H	1:249:A:VAL:HG22	14	0.1
(1,195)	1:210:A:LEU:H	1:249:A:VAL:HG23	14	0.1
(1,183)	1:209:A:ILE:HG21	1:249:A:VAL:H	2	0.1
(1,183)	1:209:A:ILE:HG22	1:249:A:VAL:H	2	0.1
(1,183)	1:209:A:ILE:HG23	1:249:A:VAL:H	2	0.1
(1,179)	1:209:A:ILE:HG21	1:238:A:ARG:HB2	19	0.1
(1,179)	1:209:A:ILE:HG22	1:238:A:ARG:HB2	19	0.1
(1,179)	1:209:A:ILE:HG23	1:238:A:ARG:HB2	19	0.1
(1,167)	1:209:A:ILE:HD11	1:236:A:GLU:H	13	0.1
(1,167)	1:209:A:ILE:HD12	1:236:A:GLU:H	13	0.1
(1,167)	1:209:A:ILE:HD13	1:236:A:GLU:H	13	0.1
(1,123)	1:208:A:HIS:HA	1:257:A:ALA:H	4	0.1
(1,123)	1:208:A:HIS:HA	1:257:A:ALA:H	12	0.1
(1,116)	1:207:A:ASN:HD22	1:280:A:ALA:H	3	0.1
(1,114)	1:207:A:ASN:HD22	1:210:A:LEU:H	12	0.1
(1,108)	1:207:A:ASN:HD21	1:282:A:LYS:HD2	3	0.1
(1,108)	1:207:A:ASN:HD21	1:282:A:LYS:HD3	3	0.1
(1,100)	1:207:A:ASN:HB2	1:209:A:ILE:HD11	7	0.1
(1,100)	1:207:A:ASN:HB2	1:209:A:ILE:HD12	7	0.1
(1,100)	1:207:A:ASN:HB2	1:209:A:ILE:HD13	7	0.1
(1,100)	1:207:A:ASN:HB2	1:209:A:ILE:HD11	15	0.1
(1,100)	1:207:A:ASN:HB2	1:209:A:ILE:HD12	15	0.1
(1,100)	1:207:A:ASN:HB2	1:209:A:ILE:HD13	15	0.1
(1,84)	1:205:A:PRO:HG2	1:281:A:LYS:HD2	6	0.1
(1,84)	1:205:A:PRO:HG2	1:281:A:LYS:HD3	6	0.1
(1,84)	1:205:A:PRO:HG3	1:281:A:LYS:HD2	6	0.1
(1,84)	1:205:A:PRO:HG3	1:281:A:LYS:HD3	6	0.1
(1,73)	1:204:A:ASN:HB2	1:281:A:LYS:HA	8	0.1
(1,73)	1:204:A:ASN:HB3	1:281:A:LYS:HA	8	0.1
(1,62)	1:204:A:ASN:HD21	1:281:A:LYS:HA	14	0.1

10 Dihedral-angle violation analysis i

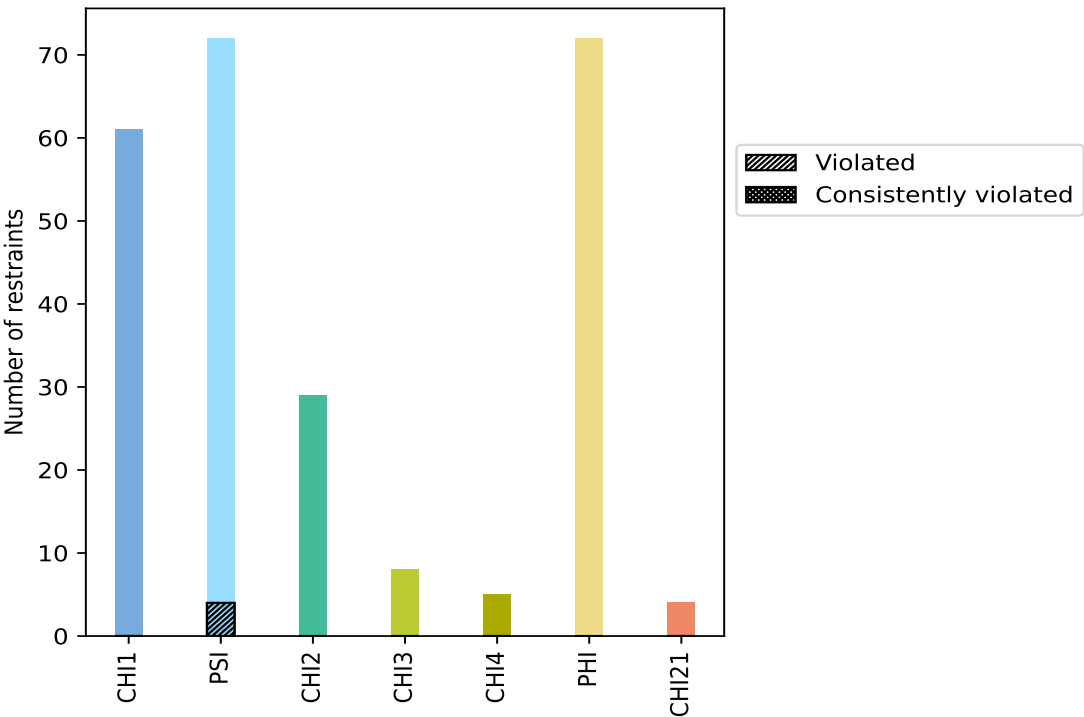
10.1 Summary of dihedral-angle violations i

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
CHI1	61	24.3	0	0.0	0.0	0	0.0	0.0
PSI	72	28.7	4	5.6	1.6	0	0.0	0.0
CHI2	29	11.6	0	0.0	0.0	0	0.0	0.0
CHI3	8	3.2	0	0.0	0.0	0	0.0	0.0
CHI4	5	2.0	0	0.0	0.0	0	0.0	0.0
PHI	72	28.7	0	0.0	0.0	0	0.0	0.0
CHI21	4	1.6	0	0.0	0.0	0	0.0	0.0
Total	251	100.0	4	1.6	1.6	0	0.0	0.0

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

10.1.1 Bar chart : Distribution of dihedral-angles and violations i



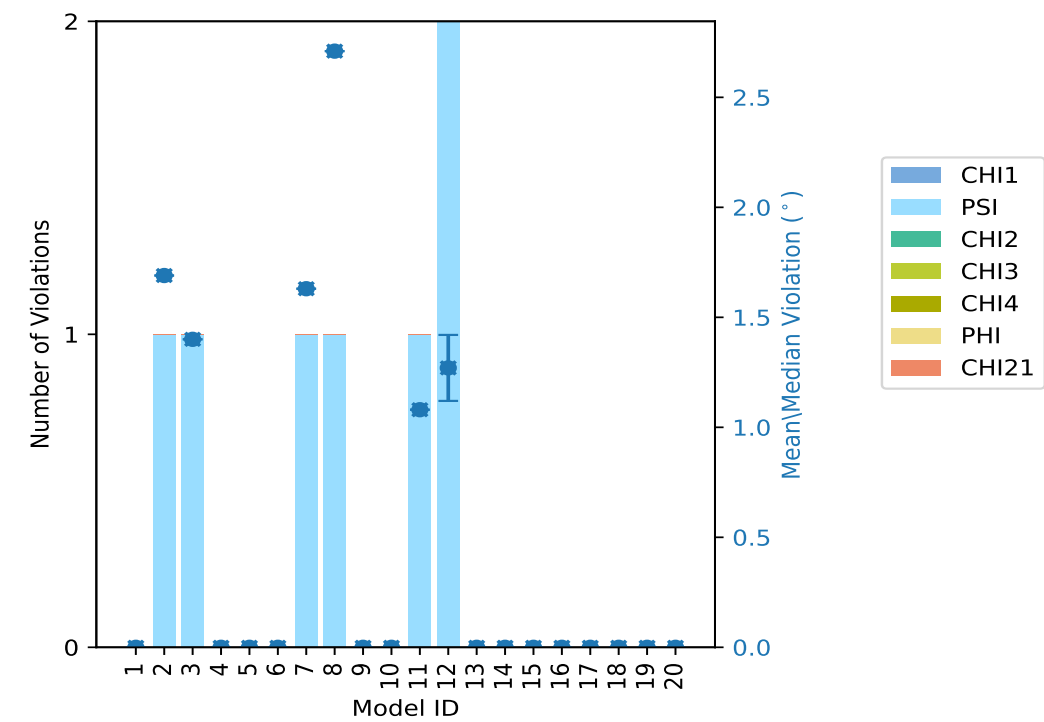
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

10.2 Dihedral-angle violation statistics for each model ⓘ

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

Model ID	Number of violations								Total	Mean (°)	Max (°)	SD (°)	Median (°)
	CHI1	PSI	CHI2	CHI3	CHI4	PHI	CHI21						
1	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	
2	0	1	0	0	0	0	0	1	1.69	1.69	0.0	1.69	
3	0	1	0	0	0	0	0	1	1.4	1.4	0.0	1.4	
4	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	
5	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	
6	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	
7	0	1	0	0	0	0	0	1	1.63	1.63	0.0	1.63	
8	0	1	0	0	0	0	0	1	2.71	2.71	0.0	2.71	
9	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	
10	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	
11	0	1	0	0	0	0	0	1	1.08	1.08	0.0	1.08	
12	0	2	0	0	0	0	0	2	1.27	1.42	0.15	1.27	
13	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	
14	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	
15	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	
16	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	
17	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	
18	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	
19	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	
20	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	

10.2.1 Bar graph : Dihedral violation statistics for each model ⓘ



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

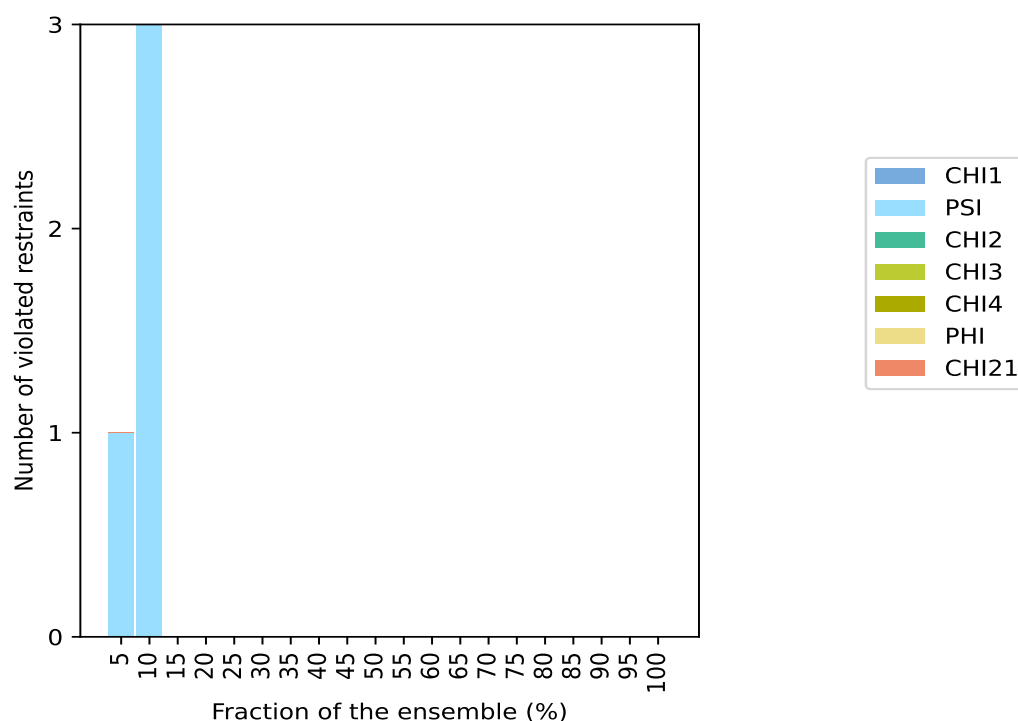
10.3 Dihedral-angle violation statistics for the ensemble

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

CHI1	Number of violated restraints							Fraction of the ensemble	
	PSI	CHI2	CHI3	CHI4	PHI	CHI21	Total	Count ¹	%
0	1	0	0	0	0	0	1	1	5.0
0	3	0	0	0	0	0	3	2	10.0
0	0	0	0	0	0	0	0	3	15.0
0	0	0	0	0	0	0	0	4	20.0
0	0	0	0	0	0	0	0	5	25.0
0	0	0	0	0	0	0	0	6	30.0
0	0	0	0	0	0	0	0	7	35.0
0	0	0	0	0	0	0	0	8	40.0
0	0	0	0	0	0	0	0	9	45.0
0	0	0	0	0	0	0	0	10	50.0
0	0	0	0	0	0	0	0	11	55.0
0	0	0	0	0	0	0	0	12	60.0
0	0	0	0	0	0	0	0	13	65.0
0	0	0	0	0	0	0	0	14	70.0
0	0	0	0	0	0	0	0	15	75.0
0	0	0	0	0	0	0	0	16	80.0
0	0	0	0	0	0	0	0	17	85.0
0	0	0	0	0	0	0	0	18	90.0
0	0	0	0	0	0	0	0	19	95.0
0	0	0	0	0	0	0	0	20	100.0

¹ Number of models with violations

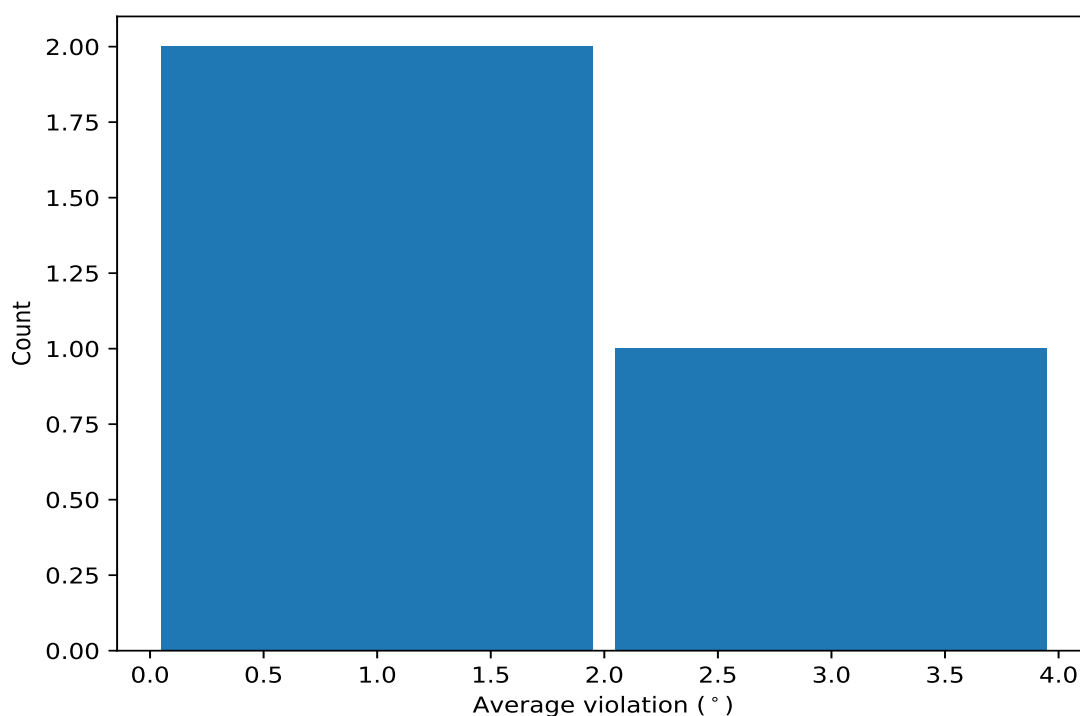
10.3.1 Bar graph : Dihedral-angle Violation statistics for the ensemble [i](#)



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.

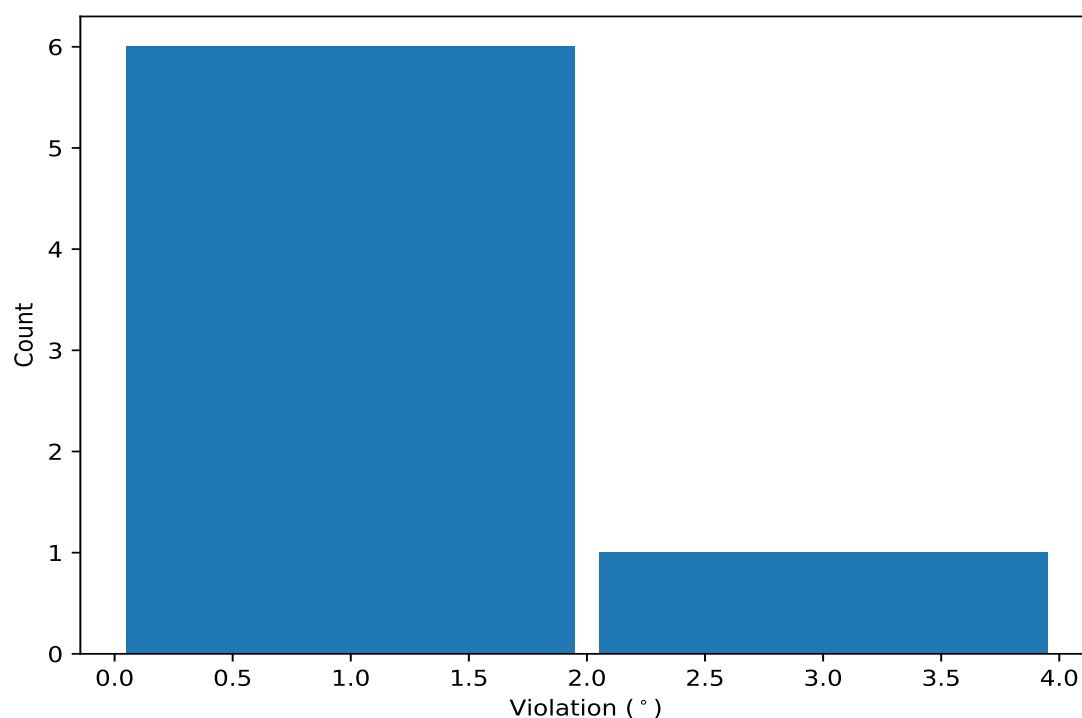
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,4)	1:198:A:ALA:N	1:198:A:ALA:CA	1:198:A:ALA:C	1:199:A:GLN:N	2	2.06	0.64	2.06
(1,10)	1:203:A:GLU:N	1:203:A:GLU:CA	1:203:A:GLU:C	1:204:A:ASN:N	2	1.66	0.03	1.66
(1,68)	1:239:A:LEU:N	1:239:A:LEU:CA	1:239:A:LEU:C	1:240:A:VAL:N	2	1.24	0.16	1.24

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 (°)
(1,4)	1:198:A:ALA:N	1:198:A:ALA:CA	1:198:A:ALA:C	1:199:A:GLN:N	8	2.71
(1,10)	1:203:A:GLU:N	1:203:A:GLU:CA	1:203:A:GLU:C	1:204:A:ASN:N	2	1.69
(1,10)	1:203:A:GLU:N	1:203:A:GLU:CA	1:203:A:GLU:C	1:204:A:ASN:N	7	1.63
(1,4)	1:198:A:ALA:N	1:198:A:ALA:CA	1:198:A:ALA:C	1:199:A:GLN:N	12	1.42
(1,68)	1:239:A:LEU:N	1:239:A:LEU:CA	1:239:A:LEU:C	1:240:A:VAL:N	3	1.4
(1,108)	1:262:A:ASP:N	1:262:A:ASP:CA	1:262:A:ASP:C	1:263:A:ALA:N	12	1.11
(1,68)	1:239:A:LEU:N	1:239:A:LEU:CA	1:239:A:LEU:C	1:240:A:VAL:N	11	1.08