



Full wwPDB NMR Structure Validation Report ⓘ

Dec 25, 2024 – 08:36 PM EST

PDB ID : 9ATN
BMRB ID : 31041
Title : NMR structure of the MLL4 PHD2/3 fingers in complex with ASXL2
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Deposited on : 2024-02-27

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 : 4.02b-467
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
wwPDB-RCI : v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV : Wang et al. (2010)
wwPDB-ShiftChecker : v1.2
BMRB Restraints Analysis : v1.2
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.40

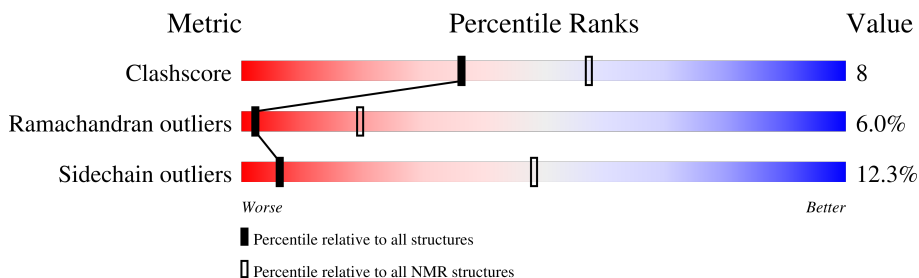
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 73%.

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



Metric	Whole archive (#Entries)	NMR archive (#Entries)
Clashscore	210492	14027
Ramachandran outliers	207382	12486
Sidechain outliers	206894	12463

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

Mol	Chain	Length	Quality of chain
1	A	100	82% 13% ...
2	B	19	47% 47% 5%

2 Ensemble composition and analysis i

This entry contains 15 models. Model 8 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:226-A:322, B:652-B:670 (116)	1.02	8

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

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

The models can be grouped into 4 clusters and 3 single-model clusters were found.

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

3 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 1745 atoms, of which 860 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Histone-lysine N-methyltransferase 2D.

Mol	Chain	Residues	Atoms					Trace	
			Total	C	H	N	O		S
1	A	98	1446	457	704	136	132	17	0

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	223	PRO	-	expression tag	UNP O14686
A	224	LEU	-	expression tag	UNP O14686
A	225	GLY	-	expression tag	UNP O14686
A	226	SER	-	expression tag	UNP O14686

- Molecule 2 is a protein called Polycomb group protein ASXL2.

Mol	Chain	Residues	Atoms					Trace
			Total	C	H	N	O	
2	B	19	295	86	156	27	26	0

- Molecule 3 is ZINC ION (three-letter code: ZN) (formula: Zn).

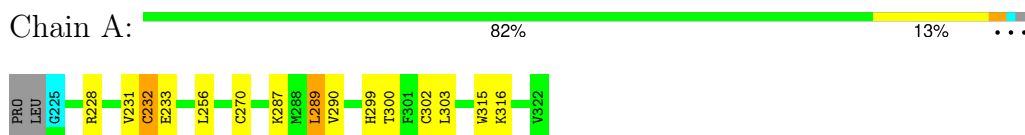
Mol	Chain	Residues	Atoms	
			Total	Zn
3	A	4	4	4

4 Residue-property plots

4.1 Average score per residue in the NMR ensemble

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

- Molecule 1: Histone-lysine N-methyltransferase 2D



- Molecule 2: Polycomb group protein ASXL2

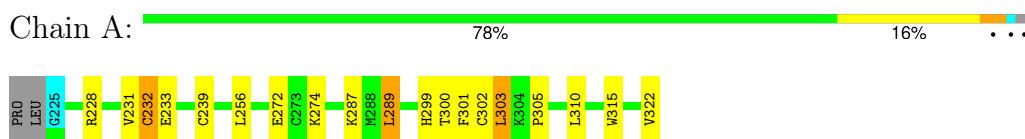


4.2 Scores per residue for each member of the ensemble

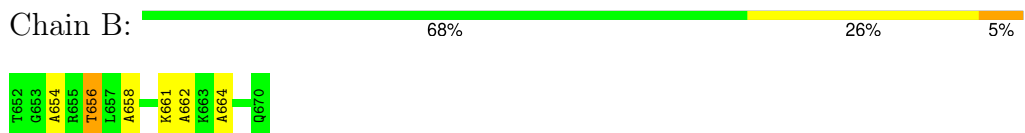
Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

- Molecule 1: Histone-lysine N-methyltransferase 2D

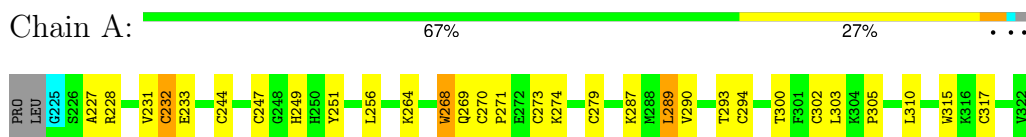


- Molecule 2: Polycomb group protein ASXL2



4.2.2 Score per residue for model 2

- Molecule 1: Histone-lysine N-methyltransferase 2D

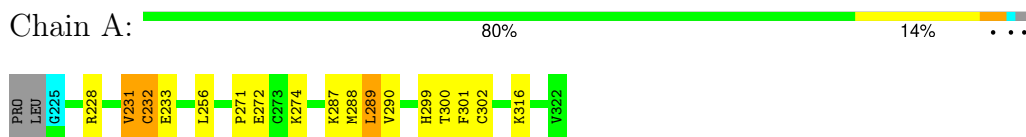


- Molecule 2: Polycomb group protein ASXL2



4.2.3 Score per residue for model 3

- Molecule 1: Histone-lysine N-methyltransferase 2D

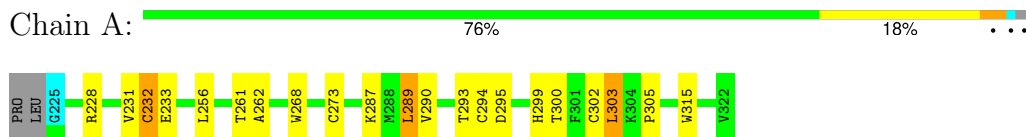


- Molecule 2: Polycomb group protein ASXL2

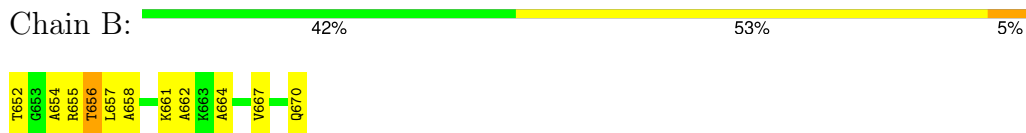


4.2.4 Score per residue for model 4

- Molecule 1: Histone-lysine N-methyltransferase 2D

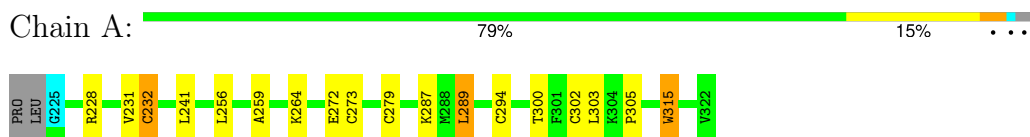


- Molecule 2: Polycomb group protein ASXL2



4.2.5 Score per residue for model 5

- Molecule 1: Histone-lysine N-methyltransferase 2D

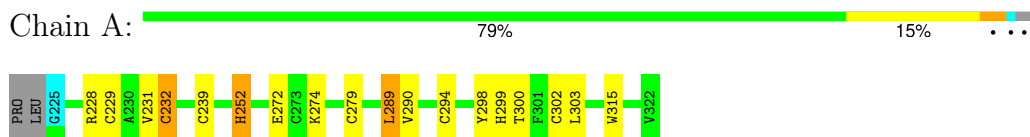


- Molecule 2: Polycomb group protein ASXL2



4.2.6 Score per residue for model 6

- Molecule 1: Histone-lysine N-methyltransferase 2D

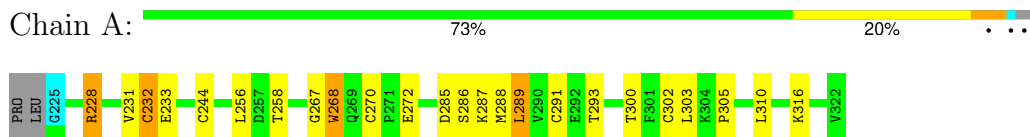


- Molecule 2: Polycomb group protein ASXL2

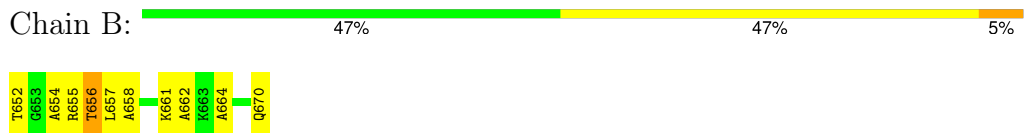


4.2.7 Score per residue for model 7

- Molecule 1: Histone-lysine N-methyltransferase 2D

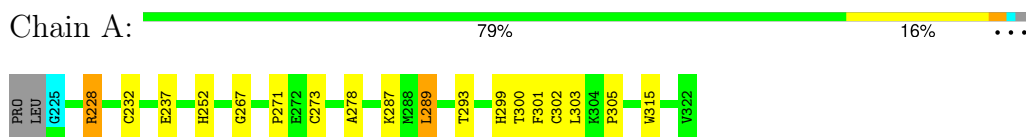


- Molecule 2: Polycomb group protein ASXL2



4.2.8 Score per residue for model 8 (medoid)

- Molecule 1: Histone-lysine N-methyltransferase 2D

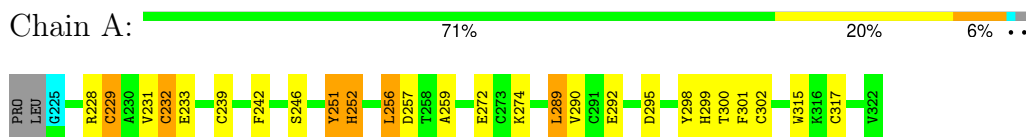


- Molecule 2: Polycomb group protein ASXL2



4.2.9 Score per residue for model 9

- Molecule 1: Histone-lysine N-methyltransferase 2D

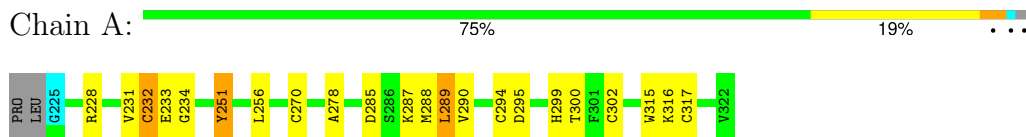


- Molecule 2: Polycomb group protein ASXL2



4.2.10 Score per residue for model 10

- Molecule 1: Histone-lysine N-methyltransferase 2D

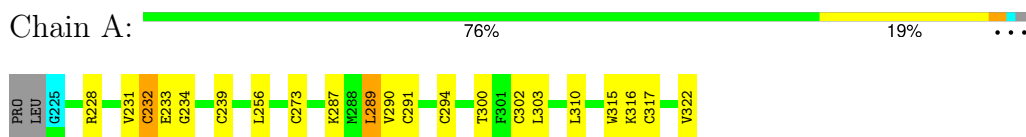


- Molecule 2: Polycomb group protein ASXL2

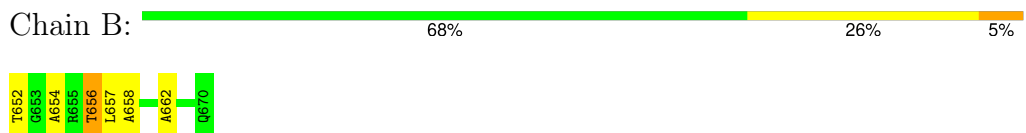


4.2.11 Score per residue for model 11

- Molecule 1: Histone-lysine N-methyltransferase 2D

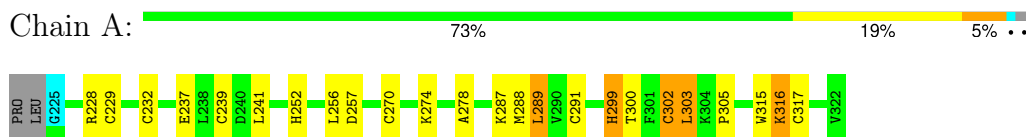


- Molecule 2: Polycomb group protein ASXL2



4.2.12 Score per residue for model 12

- Molecule 1: Histone-lysine N-methyltransferase 2D

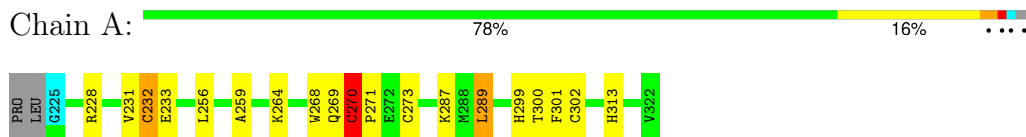


- Molecule 2: Polycomb group protein ASXL2



4.2.13 Score per residue for model 13

- Molecule 1: Histone-lysine N-methyltransferase 2D




- Molecule 2: Polycomb group protein ASXL2



4.2.14 Score per residue for model 14

- Molecule 1: Histone-lysine N-methyltransferase 2D

Chain A:  79% 15% ...




- Molecule 2: Polycomb group protein ASXL2

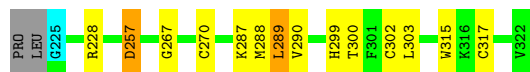
Chain B:  53% 37% 11%



4.2.15 Score per residue for model 15

- Molecule 1: Histone-lysine N-methyltransferase 2D

Chain A:  83% 12% ...



- Molecule 2: Polycomb group protein ASXL2

Chain B:  53% 32% 11% 5%



5 Refinement protocol and experimental data overview

The models were refined using the following method: *molecular dynamics*.

Of the 60 calculated structures, 15 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
X-PLOR NIH	refinement	
X-PLOR NIH	structure calculation	

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	1104
Number of shifts mapped to atoms	1091
Number of unparsed shifts	0
Number of shifts with mapping errors	13
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	73%

6 Model quality i

6.1 Standard geometry i

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

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 i

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	738	701	698	10±2
2	B	139	156	155	5±1
All	All	13215	12855	12795	196

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 8.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:299:HIS:O	1:A:303:LEU:HD22	0.69	1.87	8	3
1:A:259:ALA:HB3	1:A:264:LYS:NZ	0.64	2.06	13	1
1:A:231:VAL:HG11	1:A:256:LEU:HD13	0.64	1.68	5	4
1:A:287:LYS:O	1:A:300:THR:HG23	0.63	1.93	2	13
1:A:231:VAL:O	1:A:231:VAL:HG22	0.63	1.94	6	7
1:A:290:VAL:HG21	2:B:657:LEU:HD13	0.62	1.70	4	8
1:A:274:LYS:HE3	2:B:657:LEU:HD21	0.61	1.71	12	1
1:A:303:LEU:H	1:A:303:LEU:HD23	0.59	1.58	8	2
2:B:658:ALA:O	2:B:662:ALA:HB3	0.58	1.99	7	15
1:A:288:MET:HB3	2:B:657:LEU:HD23	0.57	1.77	12	2
1:A:259:ALA:HB3	1:A:292:GLU:O	0.56	2.01	9	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:289:LEU:HD21	1:A:300:THR:HG22	0.56	1.77	11	13
1:A:231:VAL:HG11	1:A:256:LEU:HD12	0.55	1.76	9	1
1:A:290:VAL:HG21	2:B:657:LEU:HD12	0.55	1.78	15	1
1:A:300:THR:HG21	1:A:310:LEU:HD12	0.55	1.79	2	1
1:A:300:THR:HG21	1:A:310:LEU:CD1	0.54	2.32	2	4
1:A:289:LEU:HD21	1:A:300:THR:CG2	0.54	2.32	9	6
2:B:663:LYS:O	2:B:667:VAL:HG12	0.54	2.02	14	7
1:A:231:VAL:HG21	2:B:667:VAL:HG13	0.54	1.77	10	3
1:A:285:ASP:HA	2:B:657:LEU:HD23	0.53	1.80	7	1
2:B:661:LYS:O	2:B:664:ALA:HB3	0.52	2.03	13	5
2:B:654:ALA:O	2:B:658:ALA:HB3	0.52	2.04	13	11
1:A:289:LEU:N	1:A:289:LEU:HD13	0.51	2.21	1	15
1:A:289:LEU:HD22	1:A:298:TYR:O	0.51	2.05	9	2
1:A:288:MET:SD	2:B:657:LEU:HD13	0.50	2.47	15	1
1:A:256:LEU:HD22	1:A:256:LEU:N	0.49	2.22	13	4
1:A:259:ALA:HB3	1:A:264:LYS:HZ2	0.48	1.67	13	1
1:A:315:TRP:CG	1:A:315:TRP:O	0.47	2.67	1	1
1:A:288:MET:SD	2:B:657:LEU:HD22	0.47	2.49	7	2
1:A:289:LEU:HD21	1:A:300:THR:HG23	0.47	1.87	9	1
1:A:289:LEU:HD22	1:A:289:LEU:H	0.47	1.70	9	1
1:A:231:VAL:O	1:A:231:VAL:CG2	0.46	2.63	6	1
1:A:231:VAL:HG11	1:A:256:LEU:CD1	0.46	2.38	5	3
1:A:231:VAL:CG1	1:A:256:LEU:HD21	0.46	2.40	13	1
1:A:229:CYS:SG	1:A:252:HIS:CD2	0.46	3.09	9	3
1:A:258:THR:HG21	1:A:268:TRP:CZ2	0.46	2.46	7	1
1:A:256:LEU:HD11	2:B:664:ALA:HB2	0.46	1.88	12	1
1:A:303:LEU:HD23	1:A:303:LEU:N	0.45	2.25	8	1
1:A:256:LEU:HD21	1:A:271:PRO:HD2	0.45	1.87	3	1
1:A:231:VAL:CG2	2:B:667:VAL:HG13	0.45	2.42	10	2
1:A:290:VAL:HG23	2:B:657:LEU:HD22	0.44	1.89	3	1
1:A:251:TYR:CD2	1:A:251:TYR:N	0.44	2.85	10	1
1:A:259:ALA:HB3	1:A:264:LYS:HE2	0.44	1.90	5	1
1:A:231:VAL:O	1:A:232:CYS:SG	0.43	2.75	5	1
1:A:290:VAL:CG2	2:B:657:LEU:HD22	0.43	2.43	3	1
1:A:256:LEU:HD21	1:A:272:GLU:OE1	0.43	2.13	5	1
1:A:229:CYS:O	1:A:233:GLU:N	0.43	2.51	9	1
2:B:652:THR:O	2:B:652:THR:HG23	0.43	2.13	11	2
1:A:303:LEU:HD12	1:A:305:PRO:HD2	0.43	1.91	5	6
1:A:227:ALA:HB1	1:A:249:HIS:CD2	0.43	2.49	2	1
1:A:274:LYS:HD2	2:B:657:LEU:HD21	0.43	1.91	3	1
2:B:652:THR:O	2:B:652:THR:HG22	0.42	2.14	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:289:LEU:HD22	1:A:289:LEU:N	0.42	2.28	9	1
1:A:251:TYR:HH	1:A:268:TRP:HZ3	0.42	1.50	2	1
1:A:289:LEU:H	1:A:289:LEU:HD22	0.42	1.74	8	1
2:B:656:THR:O	2:B:660:ILE:HD12	0.42	2.15	6	2
1:A:315:TRP:O	1:A:315:TRP:CG	0.42	2.72	4	2
1:A:315:TRP:O	1:A:316:LYS:O	0.42	2.38	14	1
1:A:315:TRP:O	1:A:315:TRP:CE3	0.41	2.73	14	1
1:A:251:TYR:CE2	1:A:256:LEU:HD22	0.41	2.50	9	1
1:A:231:VAL:HG11	1:A:256:LEU:HD11	0.41	1.92	1	2
1:A:232:CYS:O	1:A:233:GLU:C	0.41	2.59	9	1
2:B:655:ARG:O	2:B:656:THR:O	0.41	2.38	6	2
1:A:289:LEU:N	1:A:289:LEU:HD22	0.41	2.30	8	1
1:A:237:GLU:O	1:A:241:LEU:HD12	0.41	2.16	12	1
1:A:241:LEU:C	1:A:241:LEU:HD12	0.40	2.36	5	1
1:A:244:CYS:SG	1:A:270:CYS:HB2	0.40	2.56	7	1
1:A:299:HIS:ND1	1:A:301:PHE:CZ	0.40	2.89	8	1
1:A:288:MET:C	1:A:289:LEU:HD13	0.40	2.37	10	1
1:A:269:GLN:C	1:A:270:CYS:SG	0.40	3.00	13	1
1:A:231:VAL:O	1:A:232:CYS:CB	0.40	2.69	11	1
1:A:286:SER:HA	2:B:658:ALA:HB2	0.40	1.94	7	1
1:A:299:HIS:HB2	1:A:302:CYS:SG	0.40	2.56	12	1
1:A:252:HIS:CD2	1:A:252:HIS:N	0.40	2.86	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	96/100 (96%)	80±2 (83±2%)	11±2 (11±2%)	6±2 (6±2%)	2	19
2	B	17/19 (89%)	15±1 (87±4%)	1±1 (7±4%)	1±0 (6±0%)	2	20
All	All	1695/1785 (95%)	1416 (84%)	178 (11%)	101 (6%)	2	19

All 20 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	228	ARG	15
1	A	302	CYS	15
2	B	656	THR	15
1	A	232	CYS	10
1	A	233	GLU	8
1	A	317	CYS	7
1	A	239	CYS	5
1	A	271	PRO	4
1	A	316	LYS	3
1	A	267	GLY	3
1	A	278	ALA	3
1	A	257	ASP	3
1	A	295	ASP	2
1	A	234	GLY	2
1	A	244	CYS	1
1	A	247	CYS	1
1	A	269	GLN	1
1	A	262	ALA	1
1	A	305	PRO	1
1	A	270	CYS	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	81/83 (98%)	73±2 (90±3%)	8±2 (10±3%)	9	55
2	B	13/13 (100%)	10±1 (73±9%)	3±1 (27±9%)	1	21
All	All	1410/1440 (98%)	1236 (88%)	174 (12%)	6	48

All 42 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	289	LEU	15
2	B	656	THR	15
1	A	232	CYS	11
1	A	315	TRP	10
2	B	670	GLN	10

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Mol	Chain	Res	Type	Models (Total)
2	B	655	ARG	9
1	A	299	HIS	8
1	A	273	CYS	7
2	B	652	THR	7
1	A	294	CYS	6
1	A	272	GLU	5
1	A	270	CYS	5
2	B	667	VAL	5
1	A	274	LYS	4
1	A	301	PHE	4
1	A	303	LEU	4
1	A	268	TRP	4
1	A	293	THR	4
1	A	252	HIS	4
1	A	316	LYS	4
1	A	279	CYS	3
1	A	291	CYS	3
2	B	663	LYS	3
1	A	322	VAL	2
1	A	264	LYS	2
2	B	661	LYS	2
1	A	228	ARG	2
1	A	251	TYR	2
1	A	231	VAL	1
1	A	261	THR	1
1	A	237	GLU	1
1	A	229	CYS	1
1	A	239	CYS	1
1	A	242	PHE	1
1	A	246	SER	1
1	A	256	LEU	1
1	A	295	ASP	1
1	A	285	ASP	1
1	A	313	HIS	1
1	A	244	CYS	1
1	A	257	ASP	1
2	B	657	LEU	1

6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.6 Ligand geometry [i](#)

Of 4 ligands modelled in this entry, 4 are monoatomic - leaving 0 for Mogul analysis.

6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

7 Chemical shift validation

The completeness of assignment taking into account all chemical shift lists is 73% for the well-defined parts and 73% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *starch_output*

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	1104
Number of shifts mapped to atoms	1091
Number of unparsed shifts	0
Number of shifts with mapping errors	13
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	1

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

- No matching atom found in the structure. All 13 occurrences are reported below.

List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	A	223	PRO	HA	4.446	0.004	.
1	A	223	PRO	HB2	1.911	0.004	.
1	A	223	PRO	HB3	2.276	0.003	.
1	A	223	PRO	HD2	3.546	0.003	.
1	A	223	PRO	HG2	1.971	0.005	.
1	A	223	PRO	CA	63.196	0.026	.
1	A	223	PRO	CB	32.325	0.045	.
1	A	223	PRO	CD	49.656	0.015	.
1	A	223	PRO	CG	27.053	0.010	.
1	A	224	LEU	H	8.506	0.006	.
1	A	224	LEU	CA	55.384	0.067	.
1	A	224	LEU	CB	42.531	0.000	.
1	A	224	LEU	N	122.333	0.054	.

7.1.2 Chemical shift referencing [i](#)

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction \pm precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	119	-0.40 ± 0.23	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	110	-0.33 ± 0.16	None needed (< 0.5 ppm)
$^{13}\text{C}'$	0	—	None (insufficient data)
^{15}N	105	0.21 ± 0.34	None needed (< 0.5 ppm)

7.1.3 Completeness of resonance assignments [i](#)

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 73%, i.e. 1088 atoms were assigned a chemical shift out of a possible 1491. 0 out of 14 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	444/576 (77%)	224/234 (96%)	116/232 (50%)	104/110 (95%)
Sidechain	581/805 (72%)	381/523 (73%)	195/248 (79%)	5/34 (15%)
Aromatic	63/110 (57%)	38/55 (69%)	23/45 (51%)	2/10 (20%)
Overall	1088/1491 (73%)	643/812 (79%)	334/525 (64%)	111/154 (72%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 73%, i.e. 1091 atoms were assigned a chemical shift out of a possible 1497. 0 out of 14 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	447/582 (77%)	226/237 (95%)	117/234 (50%)	104/111 (94%)
Sidechain	581/805 (72%)	381/523 (73%)	195/248 (79%)	5/34 (15%)
Aromatic	63/110 (57%)	38/55 (69%)	23/45 (51%)	2/10 (20%)
Overall	1091/1497 (73%)	645/815 (79%)	335/527 (64%)	111/155 (72%)

7.1.4 Statistically unusual chemical shifts [i](#)

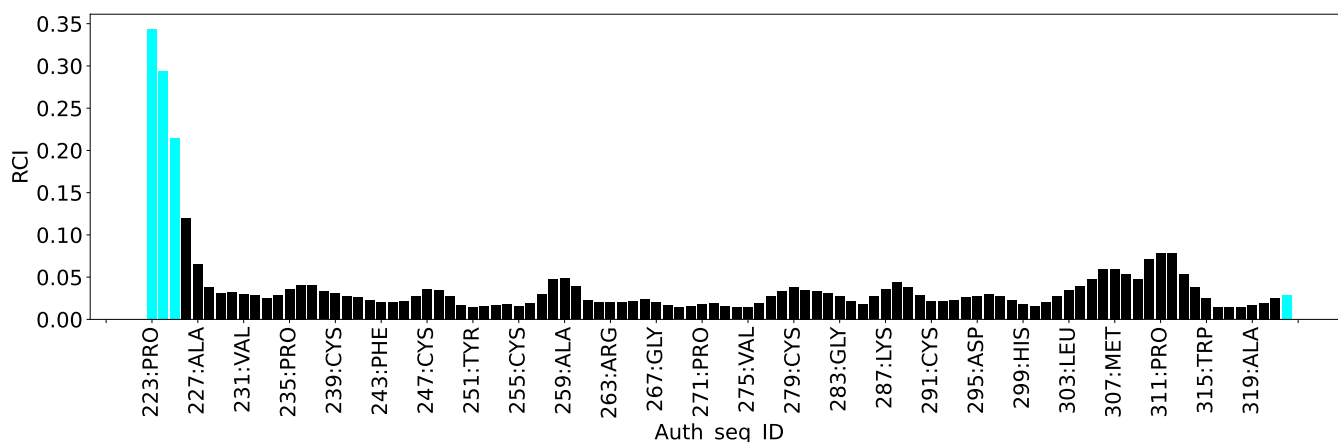
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	299	HIS	HB3	1.06	1.18 – 4.91	-5.3

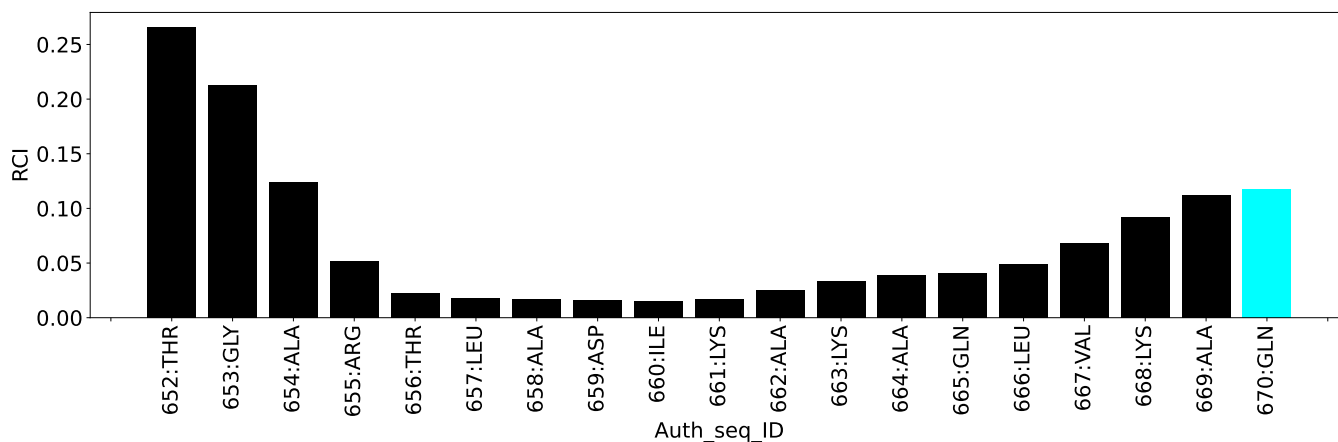
7.1.5 Random Coil Index (RCI) plots [i](#)

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

Random coil index (RCI) for chain A:



Random coil index (RCI) for chain B:



8 NMR restraints analysis

8.1 Conformationally restricting restraints

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

Description	Value
Total distance restraints	2586
Intra-residue ($ i-j =0$)	829
Sequential ($ i-j =1$)	621
Medium range ($ i-j >1$ and $ i-j <5$)	443
Long range ($ i-j \geq 5$)	485
Inter-chain	160
Hydrogen bond restraints	48
Disulfide bond restraints	0
Total dihedral-angle restraints	78
Number of unmapped restraints	0
Number of restraints per residue	21.7
Number of long range restraints per residue ¹	4.1

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

8.2 Residual restraint violations

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

8.2.1 Average number of distance violations per model

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

Bins (Å)	Average number of violations per model	Max (Å)
0.1-0.2 (Small)	51.2	0.2
0.2-0.5 (Medium)	43.6	0.5
>0.5 (Large)	2.5	1.0

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)	3.3	4.88
10.0-20.0 (Medium)	None	None
>20.0 (Large)	None	None

9 Distance violation analysis [i](#)

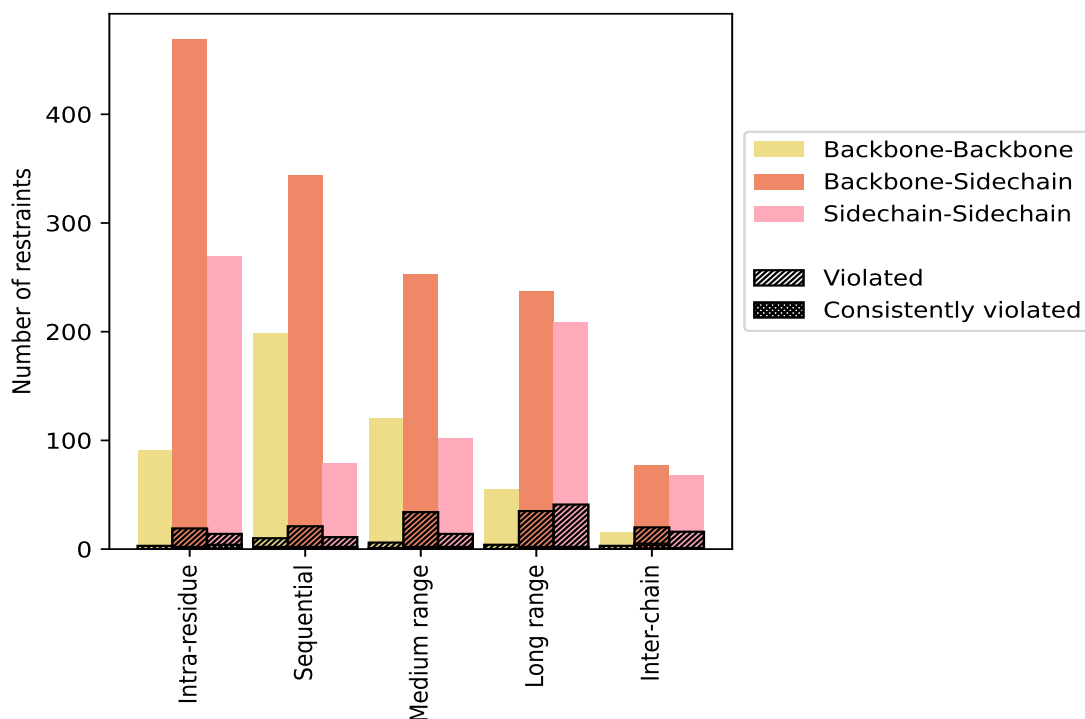
9.1 Summary of distance violations [i](#)

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

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue ($i-j =0$)	829	32.1	36	4.3	1.4	6	0.7	0.2
Backbone-Backbone	91	3.5	3	3.3	0.1	0	0.0	0.0
Backbone-Sidechain	469	18.1	19	4.1	0.7	2	0.4	0.1
Sidechain-Sidechain	269	10.4	14	5.2	0.5	4	1.5	0.2
Sequential ($i-j =1$)	621	24.0	42	6.8	1.6	6	1.0	0.2
Backbone-Backbone	198	7.7	10	5.1	0.4	2	1.0	0.1
Backbone-Sidechain	344	13.3	21	6.1	0.8	2	0.6	0.1
Sidechain-Sidechain	79	3.1	11	13.9	0.4	2	2.5	0.1
Medium range ($i-j >1$ & $i-j <5$)	443	17.1	45	10.2	1.7	4	0.9	0.2
Backbone-Backbone	120	4.6	6	5.0	0.2	1	0.8	0.0
Backbone-Sidechain	221	8.5	25	11.3	1.0	1	0.5	0.0
Sidechain-Sidechain	102	3.9	14	13.7	0.5	2	2.0	0.1
Long range ($i-j \geq 5$)	485	18.8	73	15.1	2.8	4	0.8	0.2
Backbone-Backbone	55	2.1	4	7.3	0.2	0	0.0	0.0
Backbone-Sidechain	221	8.5	28	12.7	1.1	2	0.9	0.1
Sidechain-Sidechain	209	8.1	41	19.6	1.6	2	1.0	0.1
Inter-chain	160	6.2	39	24.4	1.5	6	3.8	0.2
Backbone-Backbone	15	0.6	3	20.0	0.1	0	0.0	0.0
Backbone-Sidechain	77	3.0	20	26.0	0.8	5	6.5	0.2
Sidechain-Sidechain	68	2.6	16	23.5	0.6	1	1.5	0.0
Hydrogen bond	48	1.9	16	33.3	0.6	1	2.1	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	2586	100.0	251	9.7	9.7	27	1.0	1.0
Backbone-Backbone	479	18.5	26	5.4	1.0	3	0.6	0.1
Backbone-Sidechain	1380	53.4	129	9.3	5.0	13	0.9	0.5
Sidechain-Sidechain	727	28.1	96	13.2	3.7	11	1.5	0.4

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

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



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

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

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

Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
1	15	13	23	26	17	94	0.22	0.89	0.12	0.2
2	17	18	24	27	17	103	0.21	0.85	0.11	0.18
3	17	14	24	26	17	98	0.2	0.72	0.1	0.18
4	18	14	19	23	17	91	0.23	0.89	0.13	0.19
5	19	21	28	21	21	110	0.22	0.69	0.11	0.19
6	14	14	21	25	21	95	0.23	0.75	0.11	0.21
7	21	16	22	22	13	94	0.22	0.86	0.12	0.2
8	18	13	27	31	16	105	0.21	0.63	0.1	0.18
9	16	20	23	29	19	107	0.23	0.9	0.13	0.19
10	21	16	25	27	19	108	0.21	0.63	0.1	0.19

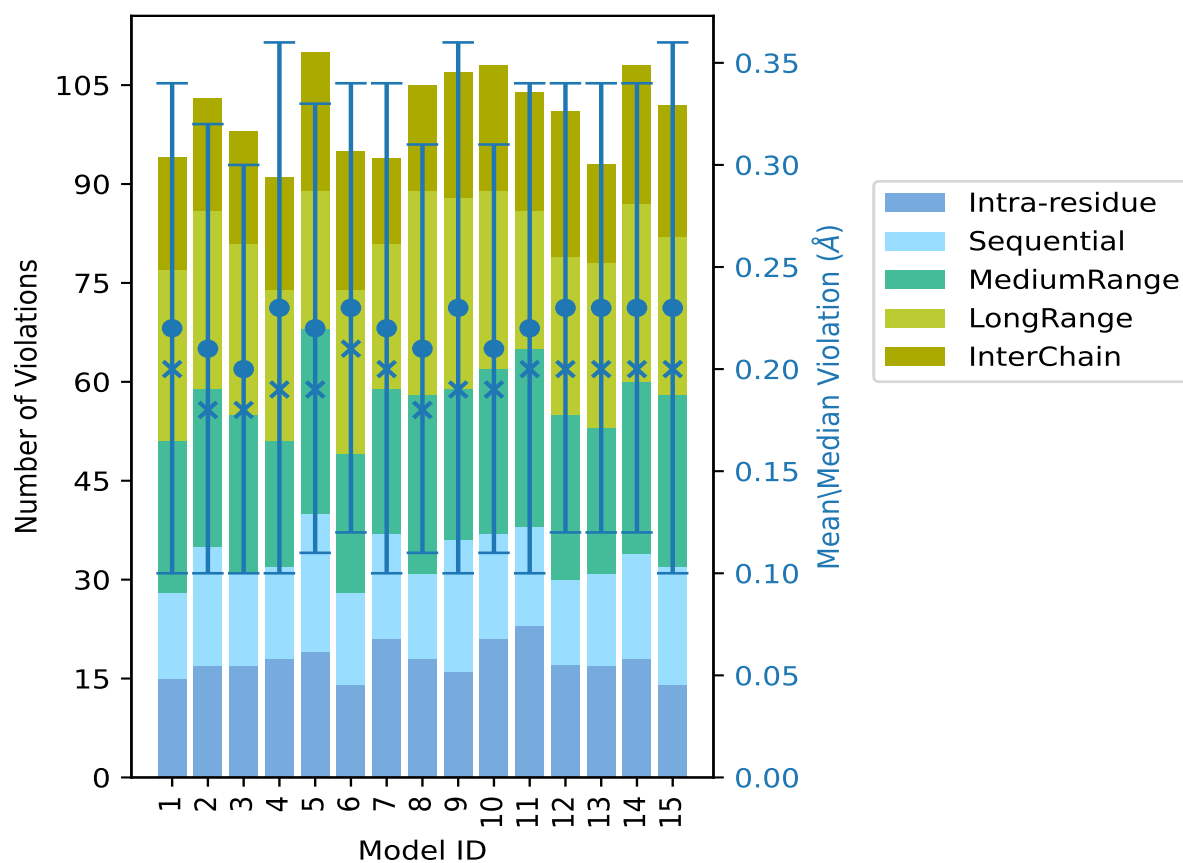
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Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
11	23	15	27	21	18	104	0.22	0.87	0.12	0.2
12	17	13	25	24	22	101	0.23	0.75	0.11	0.2
13	17	14	22	25	15	93	0.23	0.71	0.11	0.2
14	18	16	26	27	21	108	0.23	0.72	0.11	0.2
15	14	18	26	24	20	102	0.23	1.0	0.13	0.2

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

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



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

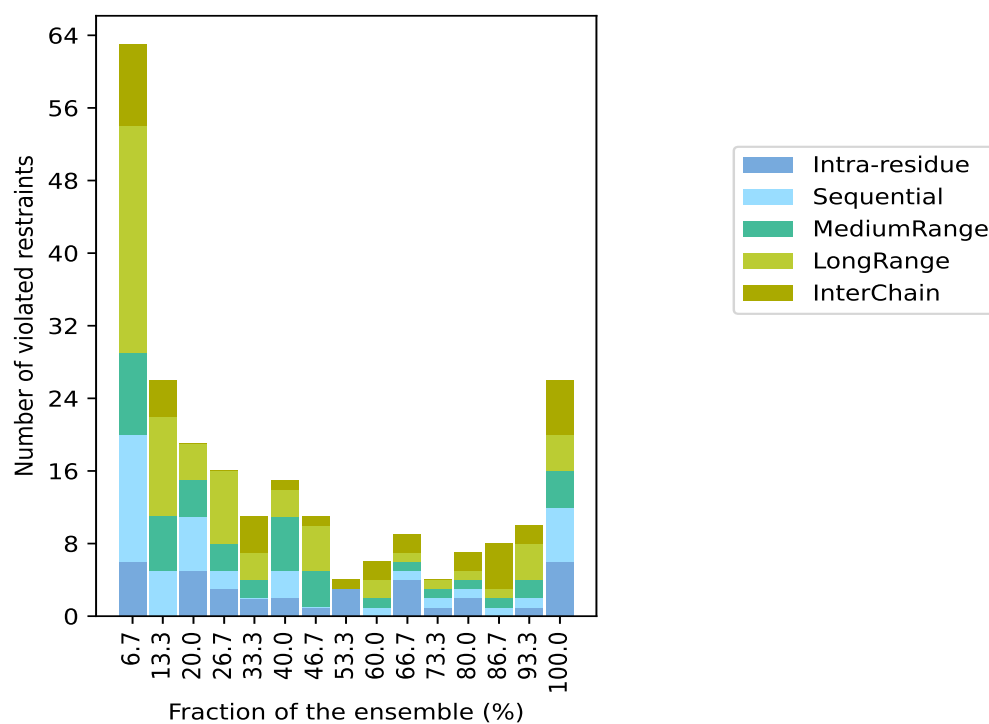
9.3 Distance violation statistics for the ensemble

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, 2303(IR:793, SQ:579, MR:398, LR:412, IC:121) 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	%
6	14	9	25	9	63	1	6.7
0	5	6	11	4	26	2	13.3
5	6	4	4	0	19	3	20.0
3	2	3	8	0	16	4	26.7
2	0	2	3	4	11	5	33.3
2	3	6	3	1	15	6	40.0
1	0	4	5	1	11	7	46.7
3	0	0	0	1	4	8	53.3
0	1	1	2	2	6	9	60.0
4	1	1	1	2	9	10	66.7
1	1	1	1	0	4	11	73.3
2	1	1	1	2	7	12	80.0
0	1	1	1	5	8	13	86.7
1	1	2	4	2	10	14	93.3
6	6	4	4	6	26	15	100.0

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

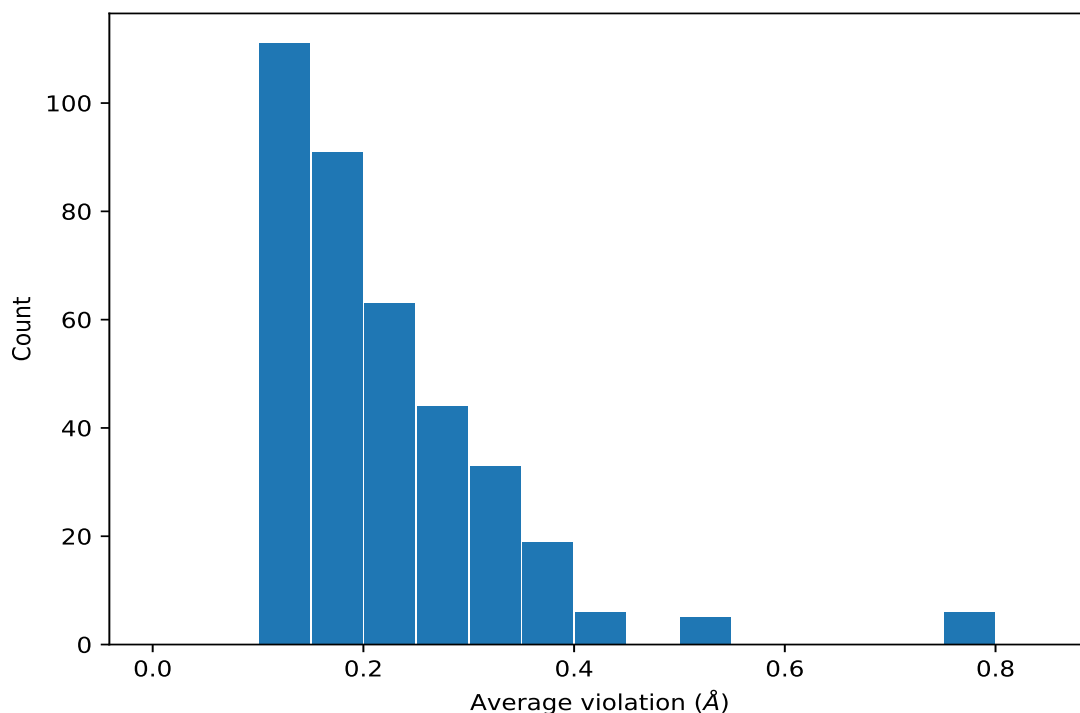
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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

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

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



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

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

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,62)	1:310:A:LEU:HD22	1:307:A:MET:HE3	15	0.76	0.09	0.74
(2,62)	1:310:A:LEU:HD21	1:307:A:MET:HE1	15	0.76	0.09	0.74
(2,62)	1:310:A:LEU:HD23	1:307:A:MET:HE1	15	0.76	0.09	0.74
(2,62)	1:310:A:LEU:HD23	1:307:A:MET:HE3	15	0.76	0.09	0.74
(2,62)	1:310:A:LEU:HD23	1:307:A:MET:HE2	15	0.76	0.09	0.74
(2,62)	1:310:A:LEU:HD21	1:307:A:MET:HE2	15	0.76	0.09	0.74
(1,24)	2:658:B:ALA:H	2:654:B:ALA:O	15	0.4	0.03	0.39
(2,2020)	1:231:A:VAL:HG21	2:667:B:VAL:HB	15	0.36	0.04	0.35
(2,2020)	1:231:A:VAL:HG22	2:667:B:VAL:HB	15	0.36	0.04	0.35
(2,2020)	1:231:A:VAL:HG23	2:667:B:VAL:HB	15	0.36	0.04	0.35
(2,2153)	1:257:A:ASP:HB3	1:268:A:TRP:HZ2	15	0.36	0.04	0.37
(2,52)	1:303:A:LEU:HG	1:307:A:MET:HE1	15	0.35	0.14	0.31
(2,52)	1:303:A:LEU:HG	1:307:A:MET:HE2	15	0.35	0.14	0.31
(2,52)	1:303:A:LEU:HG	1:307:A:MET:HE3	15	0.35	0.14	0.31
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB1	15	0.33	0.06	0.33
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB2	15	0.33	0.06	0.33

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB3	15	0.33	0.06	0.33
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB1	15	0.32	0.04	0.33
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB2	15	0.32	0.04	0.33
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB3	15	0.32	0.04	0.33
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD11	15	0.31	0.0	0.31
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD12	15	0.31	0.0	0.31
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD13	15	0.31	0.0	0.31
(2,2335)	1:289:A:LEU:HD11	1:303:A:LEU:HG	15	0.3	0.07	0.32
(2,2335)	1:289:A:LEU:HD12	1:303:A:LEU:HG	15	0.3	0.07	0.32
(2,2335)	1:289:A:LEU:HD13	1:303:A:LEU:HG	15	0.3	0.07	0.32
(2,1490)	2:666:B:LEU:H	2:665:B:GLN:HE22	15	0.3	0.02	0.3
(2,2443)	1:300:A:THR:HG21	2:658:B:ALA:H	15	0.29	0.03	0.29
(2,2443)	1:300:A:THR:HG22	2:658:B:ALA:H	15	0.29	0.03	0.29
(2,2443)	1:300:A:THR:HG23	2:658:B:ALA:H	15	0.29	0.03	0.29
(2,522)	1:294:A:CYS:HB2	1:294:A:CYS:HB3	15	0.27	0.0	0.27
(2,2336)	1:289:A:LEU:HB2	1:304:A:LYS:H	15	0.26	0.02	0.25
(2,1059)	1:251:A:TYR:HD1	1:250:A:HIS:HD2	15	0.26	0.08	0.25
(2,1059)	1:251:A:TYR:HD2	1:250:A:HIS:HD2	15	0.26	0.08	0.25
(2,90)	2:665:B:GLN:H	2:666:B:LEU:HG	15	0.26	0.06	0.26
(2,2010)	1:231:A:VAL:HG11	2:663:B:LYS:H	15	0.25	0.01	0.25
(2,2010)	1:231:A:VAL:HG12	2:663:B:LYS:H	15	0.25	0.01	0.25
(2,2010)	1:231:A:VAL:HG13	2:663:B:LYS:H	15	0.25	0.01	0.25
(2,2011)	1:231:A:VAL:HG11	2:664:B:ALA:H	15	0.24	0.04	0.24
(2,2011)	1:231:A:VAL:HG12	2:664:B:ALA:H	15	0.24	0.04	0.24
(2,2011)	1:231:A:VAL:HG13	2:664:B:ALA:H	15	0.24	0.04	0.24
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD21	15	0.22	0.0	0.22
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD22	15	0.22	0.0	0.22
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD23	15	0.22	0.0	0.22
(2,1489)	2:666:B:LEU:H	2:665:B:GLN:HA	15	0.22	0.01	0.22
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD11	15	0.22	0.04	0.21
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD12	15	0.22	0.04	0.21
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD13	15	0.22	0.04	0.21
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG11	15	0.21	0.03	0.22
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG12	15	0.21	0.03	0.22
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG13	15	0.21	0.03	0.22
(2,1884)	2:667:B:VAL:H	2:663:B:LYS:H	15	0.18	0.02	0.19
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE1	15	0.17	0.01	0.18
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE2	15	0.17	0.01	0.18
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE3	15	0.17	0.01	0.18
(2,879)	2:668:B:LYS:H	2:668:B:LYS:HB3	15	0.15	0.02	0.15
(2,1530)	2:670:B:GLN:H	2:669:B:ALA:HA	15	0.14	0.01	0.14
(2,1492)	2:666:B:LEU:HA	2:665:B:GLN:HG2	15	0.13	0.01	0.13

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,847)	2:665:B:GLN:HB2	2:665:B:GLN:HA	15	0.12	0.0	0.12
(2,116)	2:655:B:ARG:HG2	2:657:B:LEU:H	14	0.54	0.16	0.6
(2,116)	1:288:A:MET:HE2	2:657:B:LEU:H	14	0.54	0.16	0.6
(2,91)	2:662:B:ALA:HB3	2:665:B:GLN:HB2	14	0.4	0.1	0.41
(2,91)	2:662:B:ALA:HB1	2:665:B:GLN:HB2	14	0.4	0.1	0.41
(2,91)	2:662:B:ALA:HB2	2:665:B:GLN:HB2	14	0.4	0.1	0.41
(2,1768)	1:317:A:CYS:HA	1:315:A:TRP:HZ2	14	0.36	0.04	0.36
(2,2073)	1:244:A:CYS:H	1:272:A:GLU:HG2	14	0.33	0.08	0.32
(2,2251)	1:279:A:CYS:H	1:301:A:PHE:HD1	14	0.29	0.05	0.3
(2,2251)	1:279:A:CYS:H	1:301:A:PHE:HD2	14	0.29	0.05	0.3
(2,39)	2:662:B:ALA:HB1	2:660:B:ILE:H	14	0.23	0.05	0.24
(2,39)	2:662:B:ALA:HB2	2:660:B:ILE:H	14	0.23	0.05	0.24
(2,39)	2:662:B:ALA:HB3	2:660:B:ILE:H	14	0.23	0.05	0.24
(2,2445)	1:301:A:PHE:H	1:306:A:PRO:HB2	14	0.18	0.03	0.18
(2,1708)	1:300:A:THR:HG21	1:303:A:LEU:HG	14	0.17	0.04	0.18
(2,1708)	1:300:A:THR:HG22	1:303:A:LEU:HG	14	0.17	0.04	0.18
(2,1708)	1:300:A:THR:HG23	1:303:A:LEU:HG	14	0.17	0.04	0.18
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB1	14	0.16	0.03	0.16
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB2	14	0.16	0.03	0.16
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB3	14	0.16	0.03	0.16
(2,751)	1:322:A:VAL:HG21	1:322:A:VAL:HA	14	0.15	0.01	0.15
(2,751)	1:322:A:VAL:HG22	1:322:A:VAL:HA	14	0.15	0.01	0.15
(2,751)	1:322:A:VAL:HG23	1:322:A:VAL:HA	14	0.15	0.01	0.15
(2,105)	1:296:A:LYS:H	1:288:A:MET:HE1	13	0.36	0.04	0.37
(2,105)	1:296:A:LYS:H	1:288:A:MET:HE2	13	0.36	0.04	0.37
(2,105)	1:296:A:LYS:H	1:288:A:MET:HE3	13	0.36	0.04	0.37
(2,2498)	1:315:A:TRP:HB2	2:654:B:ALA:HB1	13	0.31	0.07	0.31
(2,2498)	1:315:A:TRP:HB2	2:654:B:ALA:HB2	13	0.31	0.07	0.31
(2,2498)	1:315:A:TRP:HB2	2:654:B:ALA:HB3	13	0.31	0.07	0.31
(2,1299)	1:307:A:MET:HA	1:308:A:GLU:H	13	0.26	0.03	0.26
(2,1800)	1:322:A:VAL:HG11	1:320:A:CYS:HA	13	0.24	0.05	0.25
(2,1800)	1:322:A:VAL:HG12	1:320:A:CYS:HA	13	0.24	0.05	0.25
(2,1800)	1:322:A:VAL:HG13	1:320:A:CYS:HA	13	0.24	0.05	0.25
(2,2528)	2:658:B:ALA:H	1:285:A:ASP:H	13	0.21	0.02	0.21
(2,2530)	2:658:B:ALA:H	1:285:A:ASP:HA	13	0.19	0.03	0.19
(1,32)	2:662:B:ALA:H	2:658:B:ALA:O	13	0.17	0.04	0.16
(2,2411)	1:298:A:TYR:H	2:657:B:LEU:HD11	13	0.17	0.03	0.16
(2,2411)	1:298:A:TYR:H	2:657:B:LEU:HD12	13	0.17	0.03	0.16
(2,2411)	1:298:A:TYR:H	2:657:B:LEU:HD13	13	0.17	0.03	0.16
(1,36)	2:664:B:ALA:H	2:660:B:ILE:O	13	0.16	0.05	0.16
(2,2473)	1:310:A:LEU:HD11	2:654:B:ALA:HB1	13	0.16	0.04	0.15
(2,2473)	1:310:A:LEU:HD11	2:654:B:ALA:HB2	13	0.16	0.04	0.15

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,2473)	1:310:A:LEU:HD11	2:654:B:ALA:HB3	13	0.16	0.04	0.15
(2,2473)	1:310:A:LEU:HD12	2:654:B:ALA:HB1	13	0.16	0.04	0.15
(2,2473)	1:310:A:LEU:HD12	2:654:B:ALA:HB2	13	0.16	0.04	0.15
(2,2473)	1:310:A:LEU:HD12	2:654:B:ALA:HB3	13	0.16	0.04	0.15
(2,2473)	1:310:A:LEU:HD13	2:654:B:ALA:HB1	13	0.16	0.04	0.15
(2,2473)	1:310:A:LEU:HD13	2:654:B:ALA:HB2	13	0.16	0.04	0.15
(2,2473)	1:310:A:LEU:HD13	2:654:B:ALA:HB3	13	0.16	0.04	0.15
(1,23)	2:658:B:ALA:N	2:654:B:ALA:O	13	0.15	0.03	0.15
(2,1022)	1:241:A:LEU:HD11	1:242:A:PHE:HZ	12	0.3	0.03	0.29
(2,1022)	1:241:A:LEU:HD12	1:242:A:PHE:HZ	12	0.3	0.03	0.29
(2,1022)	1:241:A:LEU:HD13	1:242:A:PHE:HZ	12	0.3	0.03	0.29
(2,2520)	2:656:B:THR:HG21	2:662:B:ALA:H	12	0.19	0.06	0.2
(2,2520)	2:656:B:THR:HG22	2:662:B:ALA:H	12	0.19	0.06	0.2
(2,2520)	2:656:B:THR:HG23	2:662:B:ALA:H	12	0.19	0.06	0.2
(1,2)	1:242:A:PHE:H	1:251:A:TYR:O	12	0.18	0.05	0.18
(2,2277)	1:285:A:ASP:HB3	2:658:B:ALA:HB1	12	0.17	0.03	0.16
(2,2277)	1:285:A:ASP:HB3	2:658:B:ALA:HB2	12	0.17	0.03	0.16
(2,2277)	1:285:A:ASP:HB3	2:658:B:ALA:HB3	12	0.17	0.03	0.16
(2,1720)	1:302:A:CYS:H	1:306:A:PRO:HB2	12	0.14	0.04	0.12
(2,2203)	1:272:A:GLU:H	2:668:B:LYS:HD2	12	0.14	0.04	0.13
(2,526)	1:297:A:GLY:H	1:297:A:GLY:HA3	12	0.14	0.03	0.14
(2,319)	1:260:A:LEU:HA	1:260:A:LEU:HD11	12	0.11	0.01	0.11
(2,319)	1:260:A:LEU:HA	1:260:A:LEU:HD12	12	0.11	0.01	0.11
(2,319)	1:260:A:LEU:HA	1:260:A:LEU:HD13	12	0.11	0.01	0.11
(2,2130)	1:255:A:CYS:H	1:231:A:VAL:HG21	11	0.23	0.11	0.23
(2,2130)	1:255:A:CYS:H	1:231:A:VAL:HG22	11	0.23	0.11	0.23
(2,2130)	1:255:A:CYS:H	1:231:A:VAL:HG23	11	0.23	0.11	0.23
(1,8)	1:250:A:HIS:H	1:227:A:ALA:O	11	0.16	0.03	0.15
(2,1500)	2:667:B:VAL:H	2:666:B:LEU:HD21	11	0.14	0.03	0.15
(2,1500)	2:667:B:VAL:H	2:666:B:LEU:HD22	11	0.14	0.03	0.15
(2,1500)	2:667:B:VAL:H	2:666:B:LEU:HD23	11	0.14	0.03	0.15
(2,383)	1:272:A:GLU:H	1:272:A:GLU:HB2	11	0.14	0.02	0.14
(1,22)	1:322:A:VAL:H	1:318:A:LYS:O	11	0.14	0.02	0.13
(2,1819)	2:658:B:ALA:HB1	2:656:B:THR:HB	11	0.13	0.01	0.13
(2,1819)	2:658:B:ALA:HB2	2:656:B:THR:HB	11	0.13	0.01	0.13
(2,1819)	2:658:B:ALA:HB3	2:656:B:THR:HB	11	0.13	0.01	0.13
(2,2535)	2:660:B:ILE:HG21	1:256:A:LEU:HG	10	0.35	0.06	0.36
(2,2535)	2:660:B:ILE:HG22	1:256:A:LEU:HG	10	0.35	0.06	0.36
(2,2535)	2:660:B:ILE:HG23	1:256:A:LEU:HG	10	0.35	0.06	0.36
(2,899)	2:668:B:LYS:HG3	2:668:B:LYS:HE2	10	0.31	0.11	0.36
(2,2485)	1:314:A:SER:HB2	1:292:A:GLU:HB3	10	0.3	0.08	0.32
(2,373)	1:272:A:GLU:H	1:272:A:GLU:HG2	10	0.26	0.04	0.27

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,644)	1:309:A:GLU:HB2	1:309:A:GLU:HG2	10	0.2	0.0	0.2
(2,1700)	1:299:A:HIS:HD2	1:301:A:PHE:HE1	10	0.17	0.04	0.16
(2,1700)	1:299:A:HIS:HD2	1:301:A:PHE:HE2	10	0.17	0.04	0.16
(2,151)	1:231:A:VAL:HA	1:231:A:VAL:HB	10	0.14	0.03	0.12
(2,1283)	1:304:A:LYS:HD2	1:305:A:PRO:HA	10	0.13	0.02	0.12
(2,2533)	2:658:B:ALA:HA	1:286:A:SER:HA	10	0.12	0.01	0.11
(2,74)	1:311:A:PRO:HB2	2:654:B:ALA:H	9	0.25	0.07	0.29
(2,74)	2:654:B:ALA:H	1:311:A:PRO:HG2	9	0.25	0.07	0.29
(2,2167)	1:258:A:THR:HG21	1:295:A:ASP:H	9	0.23	0.03	0.23
(2,2167)	1:258:A:THR:HG22	1:295:A:ASP:H	9	0.23	0.03	0.23
(2,2167)	1:258:A:THR:HG23	1:295:A:ASP:H	9	0.23	0.03	0.23
(2,2386)	1:293:A:THR:HG21	1:320:A:CYS:HB2	9	0.23	0.06	0.23
(2,2386)	1:293:A:THR:HG22	1:320:A:CYS:HB2	9	0.23	0.06	0.23
(2,2386)	1:293:A:THR:HG23	1:320:A:CYS:HB2	9	0.23	0.06	0.23
(2,1366)	1:317:A:CYS:H	1:316:A:LYS:HB2	9	0.19	0.04	0.2
(2,2366)	1:290:A:VAL:H	2:656:B:THR:HG21	9	0.14	0.03	0.14
(2,2366)	1:290:A:VAL:H	2:656:B:THR:HG22	9	0.14	0.03	0.14
(2,2366)	1:290:A:VAL:H	2:656:B:THR:HG23	9	0.14	0.03	0.14
(2,1900)	2:668:B:LYS:HB2	2:665:B:GLN:HA	9	0.12	0.02	0.11
(1,18)	1:291:A:CYS:H	1:296:A:LYS:O	8	0.2	0.06	0.2
(2,2316)	1:288:A:MET:H	2:656:B:THR:HG21	8	0.16	0.04	0.15
(2,2316)	1:288:A:MET:H	2:656:B:THR:HG22	8	0.16	0.04	0.15
(2,2316)	1:288:A:MET:H	2:656:B:THR:HG23	8	0.16	0.04	0.15
(2,292)	1:256:A:LEU:H	1:256:A:LEU:HG	8	0.15	0.03	0.15
(2,629)	1:308:A:GLU:HB2	1:308:A:GLU:HG2	8	0.13	0.0	0.13
(2,555)	1:301:A:PHE:HD1	1:301:A:PHE:HA	8	0.12	0.02	0.11
(2,555)	1:301:A:PHE:HD2	1:301:A:PHE:HA	8	0.12	0.02	0.11
(2,1)	1:231:A:VAL:HG11	1:233:A:GLU:H	7	0.33	0.16	0.4
(2,1)	1:231:A:VAL:HG13	1:233:A:GLU:H	7	0.33	0.16	0.4
(2,1)	1:231:A:VAL:HG12	1:233:A:GLU:H	7	0.33	0.16	0.4
(2,2492)	1:315:A:TRP:H	1:292:A:GLU:HG3	7	0.29	0.09	0.33
(2,63)	1:310:A:LEU:HB2	1:307:A:MET:HE1	7	0.28	0.16	0.23
(2,63)	1:310:A:LEU:HB2	1:307:A:MET:HE2	7	0.28	0.16	0.23
(2,63)	1:310:A:LEU:HB2	1:307:A:MET:HE3	7	0.28	0.16	0.23
(2,1696)	1:295:A:ASP:H	1:292:A:GLU:H	7	0.27	0.03	0.28
(2,2001)	1:231:A:VAL:HG21	1:255:A:CYS:HB2	7	0.22	0.03	0.23
(2,2001)	1:231:A:VAL:HG22	1:255:A:CYS:HB2	7	0.22	0.03	0.23
(2,2001)	1:231:A:VAL:HG23	1:255:A:CYS:HB2	7	0.22	0.03	0.23
(2,1983)	1:230:A:ALA:H	1:241:A:LEU:HD21	7	0.21	0.04	0.21
(2,1983)	1:230:A:ALA:H	1:241:A:LEU:HD22	7	0.21	0.04	0.21
(2,1983)	1:230:A:ALA:H	1:241:A:LEU:HD23	7	0.21	0.04	0.21
(2,582)	1:304:A:LYS:HE2	1:304:A:LYS:HD2	7	0.2	0.01	0.2

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,1987)	1:230:A:ALA:HA	1:250:A:HIS:HD2	7	0.19	0.01	0.18
(2,2148)	1:256:A:LEU:HD11	2:666:B:LEU:H	7	0.18	0.03	0.17
(2,2148)	1:256:A:LEU:HD12	2:666:B:LEU:H	7	0.18	0.03	0.17
(2,2148)	1:256:A:LEU:HD13	2:666:B:LEU:H	7	0.18	0.03	0.17
(2,101)	2:669:B:ALA:HB3	2:666:B:LEU:HD22	7	0.17	0.03	0.19
(2,101)	2:669:B:ALA:HB1	2:666:B:LEU:HD23	7	0.17	0.03	0.19
(2,101)	2:669:B:ALA:HB2	2:666:B:LEU:HD23	7	0.17	0.03	0.19
(2,101)	2:669:B:ALA:HB3	2:666:B:LEU:HD21	7	0.17	0.03	0.19
(2,101)	2:669:B:ALA:HB1	2:666:B:LEU:HD21	7	0.17	0.03	0.19
(2,1687)	1:293:A:THR:H	1:295:A:ASP:H	7	0.15	0.02	0.15
(2,2029)	1:231:A:VAL:HA	2:668:B:LYS:HG2	6	0.43	0.04	0.42
(2,51)	1:303:A:LEU:HD13	1:306:A:PRO:HB2	6	0.39	0.17	0.44
(2,51)	1:303:A:LEU:HD13	1:311:A:PRO:HG2	6	0.39	0.17	0.44
(2,51)	1:303:A:LEU:HD12	1:311:A:PRO:HG2	6	0.39	0.17	0.44
(2,51)	1:303:A:LEU:HD11	1:311:A:PRO:HG2	6	0.39	0.17	0.44
(2,1690)	1:294:A:CYS:H	1:291:A:CYS:HB3	6	0.27	0.05	0.29
(2,1641)	1:276:A:CYS:H	1:274:A:LYS:HB2	6	0.26	0.03	0.26
(2,2389)	1:295:A:ASP:HB2	1:268:A:TRP:HD1	6	0.26	0.08	0.24
(2,1053)	1:249:A:HIS:HA	1:250:A:HIS:HD2	6	0.24	0.06	0.24
(2,2052)	1:241:A:LEU:HB3	1:250:A:HIS:HB2	6	0.24	0.02	0.24
(2,5)	1:231:A:VAL:HG22	1:230:A:ALA:HB2	6	0.2	0.06	0.18
(2,5)	1:231:A:VAL:HG21	1:230:A:ALA:HB2	6	0.2	0.06	0.18
(2,5)	1:231:A:VAL:HG23	1:230:A:ALA:HB3	6	0.2	0.06	0.18
(2,5)	1:231:A:VAL:HG23	1:230:A:ALA:HB1	6	0.2	0.06	0.18
(2,5)	1:231:A:VAL:HG22	1:230:A:ALA:HB3	6	0.2	0.06	0.18
(2,890)	2:668:B:LYS:HD2	2:668:B:LYS:HE2	6	0.18	0.03	0.19
(2,2373)	1:292:A:GLU:HG2	1:314:A:SER:HB2	6	0.17	0.02	0.16
(2,174)	1:235:A:PRO:HD2	1:235:A:PRO:HB2	6	0.14	0.02	0.15
(2,1630)	1:271:A:PRO:HA	1:274:A:LYS:HB2	6	0.13	0.01	0.13
(2,1586)	1:249:A:HIS:H	1:251:A:TYR:HE1	6	0.13	0.02	0.12
(2,1586)	1:249:A:HIS:H	1:251:A:TYR:HE2	6	0.13	0.02	0.12
(2,936)	1:227:A:ALA:H	1:226:A:SER:HB2	6	0.12	0.01	0.13
(2,1909)	2:669:B:ALA:HB1	2:665:B:GLN:H	6	0.11	0.01	0.11
(2,1909)	2:669:B:ALA:HB2	2:665:B:GLN:H	6	0.11	0.01	0.11
(2,1909)	2:669:B:ALA:HB3	2:665:B:GLN:H	6	0.11	0.01	0.11
(2,20)	2:667:B:VAL:HG11	2:668:B:LYS:HE2	5	0.5	0.37	0.29
(2,20)	1:232:A:CYS:HB2	2:667:B:VAL:HG13	5	0.5	0.37	0.29
(2,20)	1:232:A:CYS:HB2	2:667:B:VAL:HG11	5	0.5	0.37	0.29
(2,2033)	1:232:A:CYS:H	1:255:A:CYS:HB2	5	0.38	0.02	0.38
(2,2013)	1:231:A:VAL:HG11	2:664:B:ALA:HB1	5	0.25	0.01	0.25
(2,2013)	1:231:A:VAL:HG11	2:664:B:ALA:HB2	5	0.25	0.01	0.25
(2,2013)	1:231:A:VAL:HG11	2:664:B:ALA:HB3	5	0.25	0.01	0.25

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,2013)	1:231:A:VAL:HG12	2:664:B:ALA:HB1	5	0.25	0.01	0.25
(2,2013)	1:231:A:VAL:HG12	2:664:B:ALA:HB2	5	0.25	0.01	0.25
(2,2013)	1:231:A:VAL:HG12	2:664:B:ALA:HB3	5	0.25	0.01	0.25
(2,2013)	1:231:A:VAL:HG13	2:664:B:ALA:HB1	5	0.25	0.01	0.25
(2,2013)	1:231:A:VAL:HG13	2:664:B:ALA:HB2	5	0.25	0.01	0.25
(2,2013)	1:231:A:VAL:HG13	2:664:B:ALA:HB3	5	0.25	0.01	0.25
(2,2017)	1:231:A:VAL:HG21	2:665:B:GLN:H	5	0.23	0.09	0.2
(2,2017)	1:231:A:VAL:HG22	2:665:B:GLN:H	5	0.23	0.09	0.2
(2,2017)	1:231:A:VAL:HG23	2:665:B:GLN:H	5	0.23	0.09	0.2
(2,15)	1:243:A:PHE:HB2	1:250:A:HIS:HD2	5	0.22	0.06	0.2
(2,15)	1:249:A:HIS:HB2	1:250:A:HIS:HD2	5	0.22	0.06	0.2
(2,1784)	1:320:A:CYS:HA	1:322:A:VAL:HB	5	0.19	0.04	0.2
(2,2016)	1:231:A:VAL:HG11	2:665:B:GLN:H	5	0.14	0.03	0.13
(2,2016)	1:231:A:VAL:HG12	2:665:B:GLN:H	5	0.14	0.03	0.13
(2,2016)	1:231:A:VAL:HG13	2:665:B:GLN:H	5	0.14	0.03	0.13
(1,17)	1:291:A:CYS:N	1:296:A:LYS:O	5	0.14	0.03	0.13
(2,1711)	1:301:A:PHE:H	1:298:A:TYR:HD1	5	0.12	0.03	0.11
(2,1711)	1:301:A:PHE:H	1:298:A:TYR:HD2	5	0.12	0.03	0.11
(2,2394)	1:297:A:GLY:HA2	1:290:A:VAL:HG21	5	0.12	0.02	0.12
(2,2394)	1:297:A:GLY:HA2	1:290:A:VAL:HG22	5	0.12	0.02	0.12
(2,2394)	1:297:A:GLY:HA2	1:290:A:VAL:HG23	5	0.12	0.02	0.12
(2,375)	1:272:A:GLU:HG2	1:272:A:GLU:HA	5	0.1	0.0	0.1
(2,779)	2:656:B:THR:HA	2:656:B:THR:HB	5	0.1	0.0	0.1
(2,69)	1:319:A:ALA:H	1:321:A:ARG:HD2	4	0.34	0.11	0.37
(2,2076)	1:246:A:SER:H	1:273:A:CYS:HB3	4	0.27	0.09	0.29
(2,2244)	1:278:A:ALA:HB1	1:301:A:PHE:HE1	4	0.26	0.08	0.29
(2,2244)	1:278:A:ALA:HB1	1:301:A:PHE:HE2	4	0.26	0.08	0.29
(2,2244)	1:278:A:ALA:HB2	1:301:A:PHE:HE1	4	0.26	0.08	0.29
(2,2244)	1:278:A:ALA:HB2	1:301:A:PHE:HE2	4	0.26	0.08	0.29
(2,2244)	1:278:A:ALA:HB3	1:301:A:PHE:HE1	4	0.26	0.08	0.29
(2,2244)	1:278:A:ALA:HB3	1:301:A:PHE:HE2	4	0.26	0.08	0.29
(2,2116)	1:251:A:TYR:HD1	1:268:A:TRP:HH2	4	0.23	0.04	0.22
(2,2116)	1:251:A:TYR:HD2	1:268:A:TRP:HH2	4	0.23	0.04	0.22
(2,1086)	1:257:A:ASP:H	1:256:A:LEU:HG	4	0.21	0.02	0.22
(2,2000)	1:231:A:VAL:HB	1:255:A:CYS:HA	4	0.21	0.07	0.2
(2,1563)	1:239:A:CYS:H	1:241:A:LEU:H	4	0.2	0.02	0.2
(2,2450)	1:303:A:LEU:HG	1:315:A:TRP:HE1	4	0.2	0.04	0.2
(2,912)	2:670:B:GLN:HB3	2:670:B:GLN:HA	4	0.19	0.0	0.19
(2,979)	1:232:A:CYS:HB2	1:231:A:VAL:HG21	4	0.16	0.04	0.15
(2,979)	1:232:A:CYS:HB2	1:231:A:VAL:HG22	4	0.16	0.04	0.15
(2,979)	1:232:A:CYS:HB2	1:231:A:VAL:HG23	4	0.16	0.04	0.15
(2,2197)	1:268:A:TRP:HD1	1:295:A:ASP:HB3	4	0.16	0.03	0.16

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,7)	1:250:A:HIS:N	1:227:A:ALA:O	4	0.15	0.03	0.16
(2,2363)	1:290:A:VAL:HG11	1:298:A:TYR:HB2	4	0.13	0.02	0.12
(2,2363)	1:290:A:VAL:HG12	1:298:A:TYR:HB2	4	0.13	0.02	0.12
(2,2363)	1:290:A:VAL:HG13	1:298:A:TYR:HB2	4	0.13	0.02	0.12
(2,2379)	1:293:A:THR:H	1:316:A:LYS:HA	4	0.12	0.01	0.12
(2,862)	2:666:B:LEU:H	2:666:B:LEU:HD11	4	0.11	0.0	0.11
(2,862)	2:666:B:LEU:H	2:666:B:LEU:HD12	4	0.11	0.0	0.11
(2,862)	2:666:B:LEU:H	2:666:B:LEU:HD13	4	0.11	0.0	0.11
(2,551)	1:300:A:THR:HB	1:300:A:THR:HA	4	0.11	0.0	0.11
(2,1731)	1:303:A:LEU:HG	1:307:A:MET:HB3	4	0.1	0.0	0.11
(2,1306)	1:309:A:GLU:H	1:308:A:GLU:HB2	3	0.3	0.02	0.3
(2,1321)	1:310:A:LEU:HD11	1:309:A:GLU:HG2	3	0.26	0.06	0.22
(2,1321)	1:310:A:LEU:HD12	1:309:A:GLU:HG2	3	0.26	0.06	0.22
(2,1321)	1:310:A:LEU:HD13	1:309:A:GLU:HG2	3	0.26	0.06	0.22
(2,694)	1:316:A:LYS:HD2	1:316:A:LYS:HB3	3	0.22	0.01	0.22
(2,1551)	1:234:A:GLY:H	1:232:A:CYS:H	3	0.21	0.02	0.21
(2,394)	1:274:A:LYS:HA	1:274:A:LYS:HG2	3	0.2	0.04	0.17
(2,2072)	1:244:A:CYS:H	1:270:A:CYS:H	3	0.18	0.05	0.17
(2,138)	1:228:A:ARG:HD2	1:228:A:ARG:HB2	3	0.16	0.01	0.16
(2,2108)	1:251:A:TYR:HD1	1:242:A:PHE:HB2	3	0.15	0.02	0.15
(2,2108)	1:251:A:TYR:HD2	1:242:A:PHE:HB2	3	0.15	0.02	0.15
(2,1016)	1:240:A:ASP:H	1:241:A:LEU:HD11	3	0.15	0.01	0.15
(2,1016)	1:240:A:ASP:H	1:241:A:LEU:HD12	3	0.15	0.01	0.15
(2,1016)	1:240:A:ASP:H	1:241:A:LEU:HD13	3	0.15	0.01	0.15
(2,2510)	1:321:A:ARG:H	1:316:A:LYS:HB3	3	0.15	0.03	0.17
(2,2138)	1:256:A:LEU:HD21	1:251:A:TYR:HB2	3	0.15	0.02	0.14
(2,2138)	1:256:A:LEU:HD22	1:251:A:TYR:HB2	3	0.15	0.02	0.14
(2,2138)	1:256:A:LEU:HD23	1:251:A:TYR:HB2	3	0.15	0.02	0.14
(2,1191)	1:280:A:ARG:HD2	1:279:A:CYS:H	3	0.14	0.01	0.14
(2,1277)	1:304:A:LYS:HB2	1:303:A:LEU:H	3	0.14	0.01	0.15
(2,1548)	1:233:A:GLU:H	1:231:A:VAL:HB	3	0.14	0.03	0.13
(2,124)	1:228:A:ARG:H	1:228:A:ARG:HD2	3	0.13	0.03	0.12
(1,40)	2:666:B:LEU:H	2:662:B:ALA:O	3	0.12	0.01	0.12
(2,45)	1:294:A:CYS:H	1:295:A:ASP:H	3	0.12	0.0	0.12
(2,183)	1:237:A:GLU:H	1:237:A:GLU:HG2	3	0.12	0.0	0.12
(2,1831)	2:659:B:ASP:H	2:656:B:THR:HB	3	0.12	0.01	0.12
(2,1826)	2:658:B:ALA:HB1	2:662:B:ALA:H	3	0.11	0.01	0.11
(2,1826)	2:658:B:ALA:HB2	2:662:B:ALA:H	3	0.11	0.01	0.11
(2,1826)	2:658:B:ALA:HB3	2:662:B:ALA:H	3	0.11	0.01	0.11
(1,28)	2:660:B:ILE:H	2:656:B:THR:O	3	0.11	0.01	0.11
(2,1769)	1:317:A:CYS:HA	1:315:A:TRP:HH2	2	0.43	0.01	0.43
(2,1828)	2:659:B:ASP:H	2:655:B:ARG:HG2	2	0.32	0.04	0.32

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,12)	1:300:A:THR:H	1:287:A:LYS:O	2	0.32	0.03	0.32
(2,10)	1:233:A:GLU:H	1:231:A:VAL:HG23	2	0.3	0.12	0.3
(2,10)	1:233:A:GLU:H	1:231:A:VAL:HG21	2	0.3	0.12	0.3
(2,77)	2:655:B:ARG:HB2	2:660:B:ILE:HD13	2	0.3	0.0	0.3
(2,77)	2:655:B:ARG:HB2	2:660:B:ILE:HD11	2	0.3	0.0	0.3
(2,80)	2:657:B:LEU:HD12	2:660:B:ILE:HD13	2	0.24	0.02	0.24
(2,80)	2:657:B:LEU:HD12	2:660:B:ILE:HD12	2	0.24	0.02	0.24
(2,2410)	1:298:A:TYR:H	1:315:A:TRP:HD1	2	0.22	0.0	0.22
(2,42)	1:292:A:GLU:H	1:316:A:LYS:HD2	2	0.2	0.02	0.2
(2,1203)	1:288:A:MET:HE1	1:287:A:LYS:H	2	0.18	0.06	0.18
(2,1203)	1:288:A:MET:HE2	1:287:A:LYS:H	2	0.18	0.06	0.18
(2,1203)	1:288:A:MET:HE3	1:287:A:LYS:H	2	0.18	0.06	0.18
(2,16)	1:249:A:HIS:HA	1:251:A:TYR:HE2	2	0.16	0.02	0.16
(2,16)	1:249:A:HIS:HA	1:250:A:HIS:HD2	2	0.16	0.02	0.16
(2,1409)	2:653:B:GLY:HA3	2:654:B:ALA:H	2	0.16	0.04	0.16
(2,2362)	1:290:A:VAL:HG11	1:268:A:TRP:HZ2	2	0.16	0.04	0.16
(2,2362)	1:290:A:VAL:HG12	1:268:A:TRP:HZ2	2	0.16	0.04	0.16
(2,2362)	1:290:A:VAL:HG13	1:268:A:TRP:HZ2	2	0.16	0.04	0.16
(2,2296)	1:288:A:MET:HE1	1:274:A:LYS:HG2	2	0.15	0.02	0.15
(2,2296)	1:288:A:MET:HE2	1:274:A:LYS:HG2	2	0.15	0.02	0.15
(2,2296)	1:288:A:MET:HE3	1:274:A:LYS:HG2	2	0.15	0.02	0.15
(2,2009)	1:231:A:VAL:HG21	1:256:A:LEU:HG	2	0.15	0.03	0.15
(2,2009)	1:231:A:VAL:HG22	1:256:A:LEU:HG	2	0.15	0.03	0.15
(2,2009)	1:231:A:VAL:HG23	1:256:A:LEU:HG	2	0.15	0.03	0.15
(2,2531)	2:658:B:ALA:HA	1:285:A:ASP:HB2	2	0.14	0.01	0.14
(2,941)	1:227:A:ALA:HB1	1:228:A:ARG:HB3	2	0.14	0.02	0.14
(2,941)	1:227:A:ALA:HB2	1:228:A:ARG:HB3	2	0.14	0.02	0.14
(2,941)	1:227:A:ALA:HB3	1:228:A:ARG:HB3	2	0.14	0.02	0.14
(2,2499)	1:315:A:TRP:HB3	2:654:B:ALA:HB1	2	0.14	0.02	0.14
(2,2499)	1:315:A:TRP:HB3	2:654:B:ALA:HB2	2	0.14	0.02	0.14
(2,2499)	1:315:A:TRP:HB3	2:654:B:ALA:HB3	2	0.14	0.02	0.14
(2,2068)	1:243:A:PHE:HE1	1:249:A:HIS:HE1	2	0.13	0.02	0.13
(2,2068)	1:243:A:PHE:HE2	1:249:A:HIS:HE1	2	0.13	0.02	0.13
(2,2141)	1:256:A:LEU:HD11	2:660:B:ILE:HG21	2	0.12	0.02	0.12
(2,2141)	1:256:A:LEU:HD11	2:660:B:ILE:HG22	2	0.12	0.02	0.12
(2,2141)	1:256:A:LEU:HD11	2:660:B:ILE:HG23	2	0.12	0.02	0.12
(2,2141)	1:256:A:LEU:HD12	2:660:B:ILE:HG21	2	0.12	0.02	0.12
(2,2141)	1:256:A:LEU:HD12	2:660:B:ILE:HG22	2	0.12	0.02	0.12
(2,2141)	1:256:A:LEU:HD12	2:660:B:ILE:HG23	2	0.12	0.02	0.12
(2,2141)	1:256:A:LEU:HD13	2:660:B:ILE:HG21	2	0.12	0.02	0.12
(2,2141)	1:256:A:LEU:HD13	2:660:B:ILE:HG22	2	0.12	0.02	0.12
(2,2141)	1:256:A:LEU:HD13	2:660:B:ILE:HG23	2	0.12	0.02	0.12

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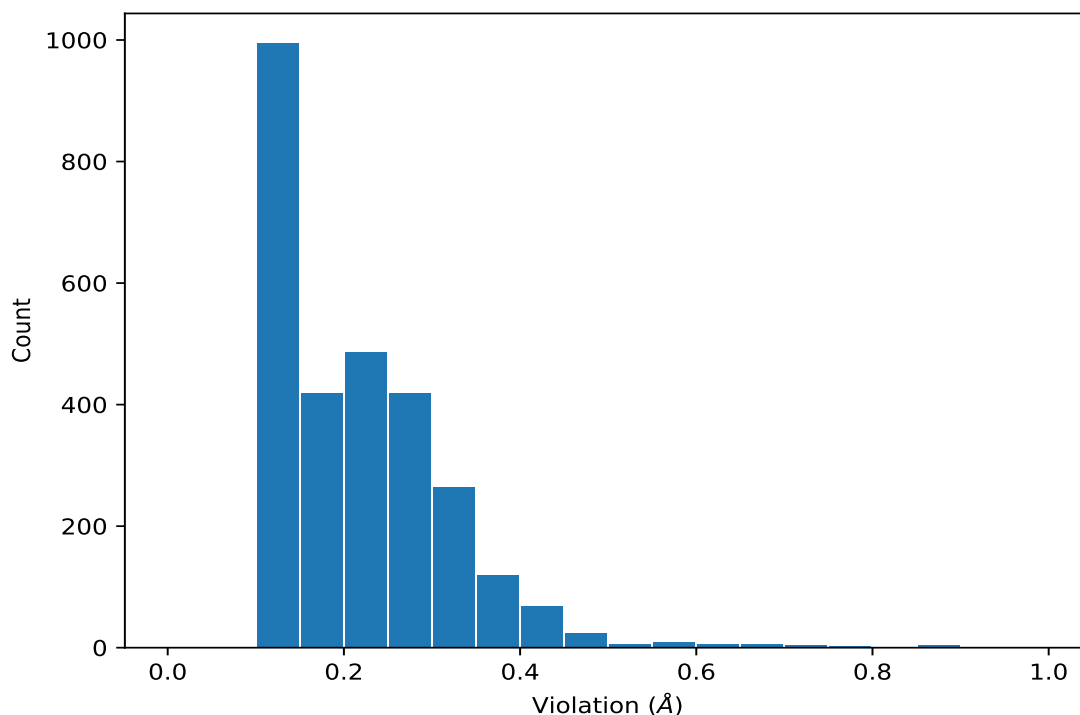
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,2121)	1:253:A:GLY:HA3	1:241:A:LEU:HD11	2	0.12	0.01	0.12
(2,2121)	1:253:A:GLY:HA3	1:241:A:LEU:HD12	2	0.12	0.01	0.12
(2,2121)	1:253:A:GLY:HA3	1:241:A:LEU:HD13	2	0.12	0.01	0.12
(1,21)	1:322:A:VAL:N	1:318:A:LYS:O	2	0.12	0.0	0.12
(2,1506)	2:668:B:LYS:H	2:667:B:VAL:HB	2	0.12	0.0	0.12
(2,1924)	2:670:B:GLN:HB2	2:666:B:LEU:HD21	2	0.12	0.0	0.12
(2,1924)	2:670:B:GLN:HB2	2:666:B:LEU:HD22	2	0.12	0.0	0.12
(2,1924)	2:670:B:GLN:HB2	2:666:B:LEU:HD23	2	0.12	0.0	0.12
(2,2333)	1:289:A:LEU:HD21	1:303:A:LEU:HG	2	0.12	0.0	0.12
(2,2333)	1:289:A:LEU:HD22	1:303:A:LEU:HG	2	0.12	0.0	0.12
(2,2333)	1:289:A:LEU:HD23	1:303:A:LEU:HG	2	0.12	0.0	0.12
(2,2397)	1:298:A:TYR:HE1	1:277:A:GLN:HB2	2	0.12	0.0	0.12
(2,2397)	1:298:A:TYR:HE2	1:277:A:GLN:HB2	2	0.12	0.0	0.12
(2,1322)	1:310:A:LEU:HD11	1:309:A:GLU:HB2	2	0.11	0.01	0.11
(2,1322)	1:310:A:LEU:HD12	1:309:A:GLU:HB2	2	0.11	0.01	0.11
(2,1322)	1:310:A:LEU:HD13	1:309:A:GLU:HB2	2	0.11	0.01	0.11
(2,2262)	1:280:A:ARG:H	1:275:A:VAL:HB	2	0.11	0.0	0.11
(2,2476)	1:310:A:LEU:HD21	2:654:B:ALA:HB1	2	0.11	0.0	0.11
(2,2476)	1:310:A:LEU:HD21	2:654:B:ALA:HB2	2	0.11	0.0	0.11
(2,2476)	1:310:A:LEU:HD21	2:654:B:ALA:HB3	2	0.11	0.0	0.11
(2,2476)	1:310:A:LEU:HD22	2:654:B:ALA:HB1	2	0.11	0.0	0.11
(2,2476)	1:310:A:LEU:HD22	2:654:B:ALA:HB2	2	0.11	0.0	0.11
(2,2476)	1:310:A:LEU:HD22	2:654:B:ALA:HB3	2	0.11	0.0	0.11
(2,2476)	1:310:A:LEU:HD23	2:654:B:ALA:HB1	2	0.11	0.0	0.11
(2,2476)	1:310:A:LEU:HD23	2:654:B:ALA:HB2	2	0.11	0.0	0.11
(2,2476)	1:310:A:LEU:HD23	2:654:B:ALA:HB3	2	0.11	0.0	0.11

¹Number of violated models, ²Standard deviation

9.5 All violated distance restraints [i](#)

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

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



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

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

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,20)	1:232:A:CYS:HB2	2:667:B:VAL:HG11	15	1.0
(2,20)	2:667:B:VAL:HG11	2:668:B:LYS:HE2	9	0.9
(2,62)	1:310:A:LEU:HD22	1:307:A:MET:HE3	1	0.89
(2,62)	1:310:A:LEU:HD23	1:307:A:MET:HE3	4	0.89
(2,62)	1:310:A:LEU:HD22	1:307:A:MET:HE3	11	0.87
(2,62)	1:310:A:LEU:HD21	1:307:A:MET:HE2	7	0.86
(2,62)	1:310:A:LEU:HD21	1:307:A:MET:HE1	2	0.85
(2,62)	1:310:A:LEU:HD21	1:307:A:MET:HE1	6	0.75
(2,62)	1:310:A:LEU:HD23	1:307:A:MET:HE1	12	0.75
(2,62)	1:310:A:LEU:HD22	1:307:A:MET:HE3	9	0.74
(2,62)	1:310:A:LEU:HD23	1:307:A:MET:HE1	3	0.72
(2,62)	1:310:A:LEU:HD21	1:307:A:MET:HE2	14	0.72
(2,62)	1:310:A:LEU:HD21	1:307:A:MET:HE2	13	0.71
(2,116)	2:655:B:ARG:HG2	2:657:B:LEU:H	9	0.69
(2,62)	1:310:A:LEU:HD23	1:307:A:MET:HE2	5	0.69
(2,116)	2:655:B:ARG:HG2	2:657:B:LEU:H	4	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,116)	2:655:B:ARG:HG2	2:657:B:LEU:H	5	0.68
(2,52)	1:303:A:LEU:HG	1:307:A:MET:HE2	11	0.68
(2,62)	1:310:A:LEU:HD23	1:307:A:MET:HE3	15	0.66
(2,116)	2:655:B:ARG:HG2	2:657:B:LEU:H	1	0.64
(2,116)	2:655:B:ARG:HG2	2:657:B:LEU:H	2	0.63
(2,62)	1:310:A:LEU:HD21	1:307:A:MET:HE1	8	0.63
(2,62)	1:310:A:LEU:HD23	1:307:A:MET:HE1	10	0.63
(2,116)	2:655:B:ARG:HG2	2:657:B:LEU:H	6	0.61
(2,116)	2:655:B:ARG:HG2	2:657:B:LEU:H	14	0.6
(2,116)	2:655:B:ARG:HG2	2:657:B:LEU:H	12	0.59
(2,91)	2:662:B:ALA:HB2	2:665:B:GLN:HB2	15	0.59
(2,41)	1:293:A:THR:HG23	1:317:A:CYS:HB2	4	0.59
(2,116)	2:655:B:ARG:HG2	2:657:B:LEU:H	8	0.57
(2,51)	1:303:A:LEU:HD12	1:311:A:PRO:HG2	14	0.57
(2,116)	2:655:B:ARG:HG2	2:657:B:LEU:H	11	0.56
(2,51)	1:303:A:LEU:HD12	1:311:A:PRO:HG2	9	0.56
(2,116)	2:655:B:ARG:HG2	2:657:B:LEU:H	3	0.55
(2,1)	1:231:A:VAL:HG11	1:233:A:GLU:H	4	0.54
(2,63)	1:310:A:LEU:HB2	1:307:A:MET:HE2	7	0.53
(2,52)	1:303:A:LEU:HG	1:307:A:MET:HE3	13	0.53
(2,52)	1:303:A:LEU:HG	1:307:A:MET:HE3	7	0.52
(2,91)	2:662:B:ALA:HB1	2:665:B:GLN:HB2	2	0.5
(2,63)	1:310:A:LEU:HB2	1:307:A:MET:HE3	11	0.5
(2,91)	2:662:B:ALA:HB3	2:665:B:GLN:HB2	12	0.49
(1,24)	2:658:B:ALA:H	2:654:B:ALA:O	9	0.49
(2,2029)	1:231:A:VAL:HA	2:668:B:LYS:HG2	14	0.48
(2,899)	2:668:B:LYS:HG3	2:668:B:LYS:HE2	13	0.48
(2,109)	1:254:A:ALA:HB1	1:241:A:LEU:HD11	5	0.48
(2,109)	1:254:A:ALA:HB1	1:241:A:LEU:HD12	5	0.48
(2,109)	1:254:A:ALA:HB1	1:241:A:LEU:HD13	5	0.48
(2,109)	1:254:A:ALA:HB2	1:241:A:LEU:HD11	5	0.48
(2,109)	1:254:A:ALA:HB2	1:241:A:LEU:HD12	5	0.48
(2,109)	1:254:A:ALA:HB2	1:241:A:LEU:HD13	5	0.48
(2,109)	1:254:A:ALA:HB3	1:241:A:LEU:HD11	5	0.48
(2,109)	1:254:A:ALA:HB3	1:241:A:LEU:HD12	5	0.48
(2,109)	1:254:A:ALA:HB3	1:241:A:LEU:HD13	5	0.48
(2,2073)	1:244:A:CYS:H	1:272:A:GLU:HG2	7	0.47
(2,2029)	1:231:A:VAL:HA	2:668:B:LYS:HG2	15	0.47
(1,24)	2:658:B:ALA:H	2:654:B:ALA:O	6	0.47
(2,69)	1:319:A:ALA:H	1:321:A:ARG:HD2	12	0.46
(2,51)	1:303:A:LEU:HD13	1:306:A:PRO:HB2	5	0.46
(2,1)	1:231:A:VAL:HG12	1:233:A:GLU:H	13	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB1	9	0.45
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB2	9	0.45
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB3	9	0.45
(2,91)	2:662:B:ALA:HB3	2:665:B:GLN:HB2	9	0.45
(2,52)	1:303:A:LEU:HG	1:307:A:MET:HE1	15	0.45
(2,1769)	1:317:A:CYS:HA	1:315:A:TRP:HH2	14	0.44
(2,91)	2:662:B:ALA:HB2	2:665:B:GLN:HB2	3	0.44
(2,91)	2:662:B:ALA:HB2	2:665:B:GLN:HB2	6	0.44
(2,2485)	1:314:A:SER:HB2	1:292:A:GLU:HB3	5	0.43
(2,2029)	1:231:A:VAL:HA	2:668:B:LYS:HG2	5	0.43
(2,69)	1:319:A:ALA:H	1:321:A:ARG:HD2	15	0.43
(2,51)	1:303:A:LEU:HD13	1:311:A:PRO:HG2	6	0.43
(2,10)	1:233:A:GLU:H	1:231:A:VAL:HG21	6	0.43
(2,2498)	1:315:A:TRP:HB2	2:654:B:ALA:HB1	14	0.42
(2,2498)	1:315:A:TRP:HB2	2:654:B:ALA:HB2	14	0.42
(2,2498)	1:315:A:TRP:HB2	2:654:B:ALA:HB3	14	0.42
(2,2130)	1:255:A:CYS:H	1:231:A:VAL:HG21	9	0.42
(2,2130)	1:255:A:CYS:H	1:231:A:VAL:HG22	9	0.42
(2,2130)	1:255:A:CYS:H	1:231:A:VAL:HG23	9	0.42
(2,2073)	1:244:A:CYS:H	1:272:A:GLU:HG2	9	0.42
(2,2029)	1:231:A:VAL:HA	2:668:B:LYS:HG2	9	0.42
(2,2020)	1:231:A:VAL:HG21	2:667:B:VAL:HB	6	0.42
(2,2020)	1:231:A:VAL:HG22	2:667:B:VAL:HB	6	0.42
(2,2020)	1:231:A:VAL:HG23	2:667:B:VAL:HB	6	0.42
(2,1769)	1:317:A:CYS:HA	1:315:A:TRP:HH2	12	0.42
(2,105)	1:296:A:LYS:H	1:288:A:MET:HE1	14	0.42
(2,105)	1:296:A:LYS:H	1:288:A:MET:HE2	14	0.42
(2,105)	1:296:A:LYS:H	1:288:A:MET:HE3	14	0.42
(2,91)	2:662:B:ALA:HB2	2:665:B:GLN:HB2	8	0.42
(2,1)	1:231:A:VAL:HG13	1:233:A:GLU:H	9	0.42
(1,24)	2:658:B:ALA:H	2:654:B:ALA:O	14	0.42
(1,24)	2:658:B:ALA:H	2:654:B:ALA:O	15	0.42
(2,2535)	2:660:B:ILE:HG21	1:256:A:LEU:HG	5	0.41
(2,2535)	2:660:B:ILE:HG22	1:256:A:LEU:HG	5	0.41
(2,2535)	2:660:B:ILE:HG23	1:256:A:LEU:HG	5	0.41
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB1	15	0.41
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB2	15	0.41
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB3	15	0.41
(2,2153)	1:257:A:ASP:HB3	1:268:A:TRP:HZ2	2	0.41
(2,2020)	1:231:A:VAL:HG21	2:667:B:VAL:HB	8	0.41
(2,2020)	1:231:A:VAL:HG22	2:667:B:VAL:HB	8	0.41
(2,2020)	1:231:A:VAL:HG23	2:667:B:VAL:HB	8	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1768)	1:317:A:CYS:HA	1:315:A:TRP:HZ2	7	0.41
(2,1768)	1:317:A:CYS:HA	1:315:A:TRP:HZ2	8	0.41
(2,105)	1:296:A:LYS:H	1:288:A:MET:HE1	8	0.41
(2,105)	1:296:A:LYS:H	1:288:A:MET:HE2	8	0.41
(2,105)	1:296:A:LYS:H	1:288:A:MET:HE3	8	0.41
(1,24)	2:658:B:ALA:H	2:654:B:ALA:O	2	0.41
(2,2535)	2:660:B:ILE:HG21	1:256:A:LEU:HG	15	0.4
(2,2535)	2:660:B:ILE:HG22	1:256:A:LEU:HG	15	0.4
(2,2535)	2:660:B:ILE:HG23	1:256:A:LEU:HG	15	0.4
(2,2389)	1:295:A:ASP:HB2	1:268:A:TRP:HD1	11	0.4
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB1	6	0.4
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB2	6	0.4
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB3	6	0.4
(2,2153)	1:257:A:ASP:HB3	1:268:A:TRP:HZ2	13	0.4
(2,2073)	1:244:A:CYS:H	1:272:A:GLU:HG2	4	0.4
(2,2033)	1:232:A:CYS:H	1:255:A:CYS:HB2	4	0.4
(2,2020)	1:231:A:VAL:HG21	2:667:B:VAL:HB	13	0.4
(2,2020)	1:231:A:VAL:HG22	2:667:B:VAL:HB	13	0.4
(2,2020)	1:231:A:VAL:HG23	2:667:B:VAL:HB	13	0.4
(2,2017)	1:231:A:VAL:HG21	2:665:B:GLN:H	12	0.4
(2,2017)	1:231:A:VAL:HG22	2:665:B:GLN:H	12	0.4
(2,2017)	1:231:A:VAL:HG23	2:665:B:GLN:H	12	0.4
(2,105)	1:296:A:LYS:H	1:288:A:MET:HE1	3	0.4
(2,105)	1:296:A:LYS:H	1:288:A:MET:HE2	3	0.4
(2,105)	1:296:A:LYS:H	1:288:A:MET:HE3	3	0.4
(2,91)	2:662:B:ALA:HB2	2:665:B:GLN:HB2	5	0.4
(2,91)	2:662:B:ALA:HB2	2:665:B:GLN:HB2	10	0.4
(2,52)	1:303:A:LEU:HG	1:307:A:MET:HE2	8	0.4
(2,52)	1:303:A:LEU:HG	1:307:A:MET:HE2	10	0.4
(2,1)	1:231:A:VAL:HG13	1:233:A:GLU:H	7	0.4
(1,24)	2:658:B:ALA:H	2:654:B:ALA:O	5	0.4
(1,24)	2:658:B:ALA:H	2:654:B:ALA:O	8	0.4
(2,2535)	2:660:B:ILE:HG21	1:256:A:LEU:HG	2	0.39
(2,2535)	2:660:B:ILE:HG22	1:256:A:LEU:HG	2	0.39
(2,2535)	2:660:B:ILE:HG23	1:256:A:LEU:HG	2	0.39
(2,2492)	1:315:A:TRP:H	1:292:A:GLU:HG3	14	0.39
(2,2335)	1:289:A:LEU:HD11	1:303:A:LEU:HG	2	0.39
(2,2335)	1:289:A:LEU:HD12	1:303:A:LEU:HG	2	0.39
(2,2335)	1:289:A:LEU:HD13	1:303:A:LEU:HG	2	0.39
(2,2251)	1:279:A:CYS:H	1:301:A:PHE:HD1	12	0.39
(2,2251)	1:279:A:CYS:H	1:301:A:PHE:HD2	12	0.39
(2,2029)	1:231:A:VAL:HA	2:668:B:LYS:HG2	12	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2020)	1:231:A:VAL:HG21	2:667:B:VAL:HB	1	0.39
(2,2020)	1:231:A:VAL:HG22	2:667:B:VAL:HB	1	0.39
(2,2020)	1:231:A:VAL:HG23	2:667:B:VAL:HB	1	0.39
(2,2020)	1:231:A:VAL:HG21	2:667:B:VAL:HB	4	0.39
(2,2020)	1:231:A:VAL:HG22	2:667:B:VAL:HB	4	0.39
(2,2020)	1:231:A:VAL:HG23	2:667:B:VAL:HB	4	0.39
(2,2020)	1:231:A:VAL:HG21	2:667:B:VAL:HB	7	0.39
(2,2020)	1:231:A:VAL:HG22	2:667:B:VAL:HB	7	0.39
(2,2020)	1:231:A:VAL:HG23	2:667:B:VAL:HB	7	0.39
(2,899)	2:668:B:LYS:HG3	2:668:B:LYS:HE2	6	0.39
(2,899)	2:668:B:LYS:HG3	2:668:B:LYS:HE2	9	0.39
(2,105)	1:296:A:LYS:H	1:288:A:MET:HE1	15	0.39
(2,105)	1:296:A:LYS:H	1:288:A:MET:HE2	15	0.39
(2,105)	1:296:A:LYS:H	1:288:A:MET:HE3	15	0.39
(1,24)	2:658:B:ALA:H	2:654:B:ALA:O	1	0.39
(1,24)	2:658:B:ALA:H	2:654:B:ALA:O	3	0.39
(1,24)	2:658:B:ALA:H	2:654:B:ALA:O	4	0.39
(1,24)	2:658:B:ALA:H	2:654:B:ALA:O	10	0.39
(1,24)	2:658:B:ALA:H	2:654:B:ALA:O	12	0.39
(2,2498)	1:315:A:TRP:HB2	2:654:B:ALA:HB1	12	0.38
(2,2498)	1:315:A:TRP:HB2	2:654:B:ALA:HB2	12	0.38
(2,2498)	1:315:A:TRP:HB2	2:654:B:ALA:HB3	12	0.38
(2,2498)	1:315:A:TRP:HB2	2:654:B:ALA:HB1	15	0.38
(2,2498)	1:315:A:TRP:HB2	2:654:B:ALA:HB2	15	0.38
(2,2498)	1:315:A:TRP:HB2	2:654:B:ALA:HB3	15	0.38
(2,2492)	1:315:A:TRP:H	1:292:A:GLU:HG3	12	0.38
(2,2335)	1:289:A:LEU:HD11	1:303:A:LEU:HG	1	0.38
(2,2335)	1:289:A:LEU:HD12	1:303:A:LEU:HG	1	0.38
(2,2335)	1:289:A:LEU:HD13	1:303:A:LEU:HG	1	0.38
(2,2153)	1:257:A:ASP:HB3	1:268:A:TRP:HZ2	4	0.38
(2,2153)	1:257:A:ASP:HB3	1:268:A:TRP:HZ2	5	0.38
(2,2153)	1:257:A:ASP:HB3	1:268:A:TRP:HZ2	10	0.38
(2,2130)	1:255:A:CYS:H	1:231:A:VAL:HG21	6	0.38
(2,2130)	1:255:A:CYS:H	1:231:A:VAL:HG22	6	0.38
(2,2130)	1:255:A:CYS:H	1:231:A:VAL:HG23	6	0.38
(2,2073)	1:244:A:CYS:H	1:272:A:GLU:HG2	13	0.38
(2,2033)	1:232:A:CYS:H	1:255:A:CYS:HB2	1	0.38
(2,2033)	1:232:A:CYS:H	1:255:A:CYS:HB2	7	0.38
(2,2033)	1:232:A:CYS:H	1:255:A:CYS:HB2	13	0.38
(2,2029)	1:231:A:VAL:HA	2:668:B:LYS:HG2	6	0.38
(2,1768)	1:317:A:CYS:HA	1:315:A:TRP:HZ2	6	0.38
(2,1768)	1:317:A:CYS:HA	1:315:A:TRP:HZ2	10	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1768)	1:317:A:CYS:HA	1:315:A:TRP:HZ2	13	0.38
(2,1059)	1:251:A:TYR:HD1	1:250:A:HIS:HD2	1	0.38
(2,1059)	1:251:A:TYR:HD2	1:250:A:HIS:HD2	1	0.38
(2,105)	1:296:A:LYS:H	1:288:A:MET:HE1	13	0.38
(2,105)	1:296:A:LYS:H	1:288:A:MET:HE2	13	0.38
(2,105)	1:296:A:LYS:H	1:288:A:MET:HE3	13	0.38
(2,90)	2:665:B:GLN:H	2:666:B:LEU:HG	6	0.38
(1,24)	2:658:B:ALA:H	2:654:B:ALA:O	11	0.38
(2,2535)	2:660:B:ILE:HG21	1:256:A:LEU:HG	10	0.37
(2,2535)	2:660:B:ILE:HG22	1:256:A:LEU:HG	10	0.37
(2,2535)	2:660:B:ILE:HG23	1:256:A:LEU:HG	10	0.37
(2,2535)	2:660:B:ILE:HG21	1:256:A:LEU:HG	14	0.37
(2,2535)	2:660:B:ILE:HG22	1:256:A:LEU:HG	14	0.37
(2,2535)	2:660:B:ILE:HG23	1:256:A:LEU:HG	14	0.37
(2,2498)	1:315:A:TRP:HB2	2:654:B:ALA:HB1	10	0.37
(2,2498)	1:315:A:TRP:HB2	2:654:B:ALA:HB2	10	0.37
(2,2498)	1:315:A:TRP:HB2	2:654:B:ALA:HB3	10	0.37
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB1	11	0.37
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB2	11	0.37
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB3	11	0.37
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB1	15	0.37
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB2	15	0.37
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB3	15	0.37
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB1	11	0.37
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB2	11	0.37
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB3	11	0.37
(2,2153)	1:257:A:ASP:HB3	1:268:A:TRP:HZ2	7	0.37
(2,2153)	1:257:A:ASP:HB3	1:268:A:TRP:HZ2	12	0.37
(2,2153)	1:257:A:ASP:HB3	1:268:A:TRP:HZ2	15	0.37
(2,2076)	1:246:A:SER:H	1:273:A:CYS:HB3	14	0.37
(2,2020)	1:231:A:VAL:HG21	2:667:B:VAL:HB	11	0.37
(2,2020)	1:231:A:VAL:HG22	2:667:B:VAL:HB	11	0.37
(2,2020)	1:231:A:VAL:HG23	2:667:B:VAL:HB	11	0.37
(2,1768)	1:317:A:CYS:HA	1:315:A:TRP:HZ2	15	0.37
(2,1059)	1:251:A:TYR:HD1	1:250:A:HIS:HD2	6	0.37
(2,1059)	1:251:A:TYR:HD2	1:250:A:HIS:HD2	6	0.37
(2,899)	2:668:B:LYS:HG3	2:668:B:LYS:HE2	7	0.37
(2,899)	2:668:B:LYS:HG3	2:668:B:LYS:HE2	10	0.37
(2,116)	2:655:B:ARG:HG2	2:657:B:LEU:H	10	0.37
(2,105)	1:296:A:LYS:H	1:288:A:MET:HE1	7	0.37
(2,105)	1:296:A:LYS:H	1:288:A:MET:HE2	7	0.37
(2,105)	1:296:A:LYS:H	1:288:A:MET:HE3	7	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,105)	1:296:A:LYS:H	1:288:A:MET:HE1	11	0.37
(2,105)	1:296:A:LYS:H	1:288:A:MET:HE2	11	0.37
(2,105)	1:296:A:LYS:H	1:288:A:MET:HE3	11	0.37
(1,24)	2:658:B:ALA:H	2:654:B:ALA:O	13	0.37
(2,2335)	1:289:A:LEU:HD11	1:303:A:LEU:HG	7	0.36
(2,2335)	1:289:A:LEU:HD12	1:303:A:LEU:HG	7	0.36
(2,2335)	1:289:A:LEU:HD13	1:303:A:LEU:HG	7	0.36
(2,2335)	1:289:A:LEU:HD11	1:303:A:LEU:HG	11	0.36
(2,2335)	1:289:A:LEU:HD12	1:303:A:LEU:HG	11	0.36
(2,2335)	1:289:A:LEU:HD13	1:303:A:LEU:HG	11	0.36
(2,2335)	1:289:A:LEU:HD11	1:303:A:LEU:HG	13	0.36
(2,2335)	1:289:A:LEU:HD12	1:303:A:LEU:HG	13	0.36
(2,2335)	1:289:A:LEU:HD13	1:303:A:LEU:HG	13	0.36
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB1	10	0.36
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB2	10	0.36
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB3	10	0.36
(2,2153)	1:257:A:ASP:HB3	1:268:A:TRP:HZ2	6	0.36
(2,2153)	1:257:A:ASP:HB3	1:268:A:TRP:HZ2	8	0.36
(2,2153)	1:257:A:ASP:HB3	1:268:A:TRP:HZ2	14	0.36
(2,1828)	2:659:B:ASP:H	2:655:B:ARG:HG2	13	0.36
(2,1768)	1:317:A:CYS:HA	1:315:A:TRP:HZ2	1	0.36
(2,1768)	1:317:A:CYS:HA	1:315:A:TRP:HZ2	4	0.36
(2,114)	1:229:A:CYS:H	1:236:A:GLY:H	4	0.36
(2,105)	1:296:A:LYS:H	1:288:A:MET:HE1	9	0.36
(2,105)	1:296:A:LYS:H	1:288:A:MET:HE2	9	0.36
(2,105)	1:296:A:LYS:H	1:288:A:MET:HE3	9	0.36
(2,2535)	2:660:B:ILE:HG21	1:256:A:LEU:HG	6	0.35
(2,2535)	2:660:B:ILE:HG22	1:256:A:LEU:HG	6	0.35
(2,2535)	2:660:B:ILE:HG23	1:256:A:LEU:HG	6	0.35
(2,2535)	2:660:B:ILE:HG21	1:256:A:LEU:HG	8	0.35
(2,2535)	2:660:B:ILE:HG22	1:256:A:LEU:HG	8	0.35
(2,2535)	2:660:B:ILE:HG23	1:256:A:LEU:HG	8	0.35
(2,2535)	2:660:B:ILE:HG21	1:256:A:LEU:HG	12	0.35
(2,2535)	2:660:B:ILE:HG22	1:256:A:LEU:HG	12	0.35
(2,2535)	2:660:B:ILE:HG23	1:256:A:LEU:HG	12	0.35
(2,2498)	1:315:A:TRP:HB2	2:654:B:ALA:HB1	11	0.35
(2,2498)	1:315:A:TRP:HB2	2:654:B:ALA:HB2	11	0.35
(2,2498)	1:315:A:TRP:HB2	2:654:B:ALA:HB3	11	0.35
(2,2485)	1:314:A:SER:HB2	1:292:A:GLU:HB3	12	0.35
(2,2485)	1:314:A:SER:HB2	1:292:A:GLU:HB3	13	0.35
(2,2335)	1:289:A:LEU:HD11	1:303:A:LEU:HG	4	0.35
(2,2335)	1:289:A:LEU:HD12	1:303:A:LEU:HG	4	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2335)	1:289:A:LEU:HD13	1:303:A:LEU:HG	4	0.35
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB1	1	0.35
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB2	1	0.35
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB3	1	0.35
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB1	13	0.35
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB2	13	0.35
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB3	13	0.35
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB1	1	0.35
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB2	1	0.35
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB3	1	0.35
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB1	4	0.35
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB2	4	0.35
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB3	4	0.35
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB1	10	0.35
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB2	10	0.35
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB3	10	0.35
(2,2251)	1:279:A:CYS:H	1:301:A:PHE:HD1	14	0.35
(2,2251)	1:279:A:CYS:H	1:301:A:PHE:HD2	14	0.35
(2,2153)	1:257:A:ASP:HB3	1:268:A:TRP:HZ2	9	0.35
(2,2073)	1:244:A:CYS:H	1:272:A:GLU:HG2	1	0.35
(2,2020)	1:231:A:VAL:HG21	2:667:B:VAL:HB	12	0.35
(2,2020)	1:231:A:VAL:HG22	2:667:B:VAL:HB	12	0.35
(2,2020)	1:231:A:VAL:HG23	2:667:B:VAL:HB	12	0.35
(2,2020)	1:231:A:VAL:HG21	2:667:B:VAL:HB	14	0.35
(2,2020)	1:231:A:VAL:HG22	2:667:B:VAL:HB	14	0.35
(2,2020)	1:231:A:VAL:HG23	2:667:B:VAL:HB	14	0.35
(2,1768)	1:317:A:CYS:HA	1:315:A:TRP:HZ2	2	0.35
(2,1768)	1:317:A:CYS:HA	1:315:A:TRP:HZ2	9	0.35
(2,1022)	1:241:A:LEU:HD11	1:242:A:PHE:HZ	7	0.35
(2,1022)	1:241:A:LEU:HD12	1:242:A:PHE:HZ	7	0.35
(2,1022)	1:241:A:LEU:HD13	1:242:A:PHE:HZ	7	0.35
(2,91)	2:662:B:ALA:HB3	2:665:B:GLN:HB2	4	0.35
(2,63)	1:310:A:LEU:HB2	1:307:A:MET:HE1	2	0.35
(1,24)	2:658:B:ALA:H	2:654:B:ALA:O	7	0.35
(1,12)	1:300:A:THR:H	1:287:A:LYS:O	8	0.35
(2,2535)	2:660:B:ILE:HG21	1:256:A:LEU:HG	11	0.34
(2,2535)	2:660:B:ILE:HG22	1:256:A:LEU:HG	11	0.34
(2,2535)	2:660:B:ILE:HG23	1:256:A:LEU:HG	11	0.34
(2,2498)	1:315:A:TRP:HB2	2:654:B:ALA:HB1	8	0.34
(2,2498)	1:315:A:TRP:HB2	2:654:B:ALA:HB2	8	0.34
(2,2498)	1:315:A:TRP:HB2	2:654:B:ALA:HB3	8	0.34
(2,2492)	1:315:A:TRP:H	1:292:A:GLU:HG3	15	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2443)	1:300:A:THR:HG21	2:658:B:ALA:H	10	0.34
(2,2443)	1:300:A:THR:HG22	2:658:B:ALA:H	10	0.34
(2,2443)	1:300:A:THR:HG23	2:658:B:ALA:H	10	0.34
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB1	4	0.34
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB2	4	0.34
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB3	4	0.34
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB1	5	0.34
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB2	5	0.34
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB3	5	0.34
(2,2251)	1:279:A:CYS:H	1:301:A:PHE:HD1	6	0.34
(2,2251)	1:279:A:CYS:H	1:301:A:PHE:HD2	6	0.34
(2,2153)	1:257:A:ASP:HB3	1:268:A:TRP:HZ2	1	0.34
(2,2130)	1:255:A:CYS:H	1:231:A:VAL:HG21	14	0.34
(2,2130)	1:255:A:CYS:H	1:231:A:VAL:HG22	14	0.34
(2,2130)	1:255:A:CYS:H	1:231:A:VAL:HG23	14	0.34
(2,2073)	1:244:A:CYS:H	1:272:A:GLU:HG2	14	0.34
(2,2033)	1:232:A:CYS:H	1:255:A:CYS:HB2	10	0.34
(2,2020)	1:231:A:VAL:HG21	2:667:B:VAL:HB	3	0.34
(2,2020)	1:231:A:VAL:HG22	2:667:B:VAL:HB	3	0.34
(2,2020)	1:231:A:VAL:HG23	2:667:B:VAL:HB	3	0.34
(2,2020)	1:231:A:VAL:HG21	2:667:B:VAL:HB	9	0.34
(2,2020)	1:231:A:VAL:HG22	2:667:B:VAL:HB	9	0.34
(2,2020)	1:231:A:VAL:HG23	2:667:B:VAL:HB	9	0.34
(2,2020)	1:231:A:VAL:HG21	2:667:B:VAL:HB	10	0.34
(2,2020)	1:231:A:VAL:HG22	2:667:B:VAL:HB	10	0.34
(2,2020)	1:231:A:VAL:HG23	2:667:B:VAL:HB	10	0.34
(2,1768)	1:317:A:CYS:HA	1:315:A:TRP:HZ2	12	0.34
(2,1490)	2:666:B:LEU:H	2:665:B:GLN:HE22	6	0.34
(2,1321)	1:310:A:LEU:HD11	1:309:A:GLU:HG2	5	0.34
(2,1321)	1:310:A:LEU:HD12	1:309:A:GLU:HG2	5	0.34
(2,1321)	1:310:A:LEU:HD13	1:309:A:GLU:HG2	5	0.34
(2,1059)	1:251:A:TYR:HD1	1:250:A:HIS:HD2	7	0.34
(2,1059)	1:251:A:TYR:HD2	1:250:A:HIS:HD2	7	0.34
(2,1059)	1:251:A:TYR:HD1	1:250:A:HIS:HD2	13	0.34
(2,1059)	1:251:A:TYR:HD2	1:250:A:HIS:HD2	13	0.34
(2,1022)	1:241:A:LEU:HD11	1:242:A:PHE:HZ	1	0.34
(2,1022)	1:241:A:LEU:HD12	1:242:A:PHE:HZ	1	0.34
(2,1022)	1:241:A:LEU:HD13	1:242:A:PHE:HZ	1	0.34
(2,899)	2:668:B:LYS:HG3	2:668:B:LYS:HE2	4	0.34
(2,105)	1:296:A:LYS:H	1:288:A:MET:HE1	10	0.34
(2,105)	1:296:A:LYS:H	1:288:A:MET:HE2	10	0.34
(2,105)	1:296:A:LYS:H	1:288:A:MET:HE3	10	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,74)	1:311:A:PRO:HB2	2:654:B:ALA:H	11	0.34
(2,52)	1:303:A:LEU:HG	1:307:A:MET:HE2	2	0.34
(2,2492)	1:315:A:TRP:H	1:292:A:GLU:HG3	5	0.33
(2,2485)	1:314:A:SER:HB2	1:292:A:GLU:HB3	1	0.33
(2,2443)	1:300:A:THR:HG21	2:658:B:ALA:H	14	0.33
(2,2443)	1:300:A:THR:HG22	2:658:B:ALA:H	14	0.33
(2,2443)	1:300:A:THR:HG23	2:658:B:ALA:H	14	0.33
(2,2335)	1:289:A:LEU:HD11	1:303:A:LEU:HG	12	0.33
(2,2335)	1:289:A:LEU:HD12	1:303:A:LEU:HG	12	0.33
(2,2335)	1:289:A:LEU:HD13	1:303:A:LEU:HG	12	0.33
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB1	8	0.33
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB2	8	0.33
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB3	8	0.33
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB1	5	0.33
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB2	5	0.33
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB3	5	0.33
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB1	8	0.33
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB2	8	0.33
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB3	8	0.33
(2,2244)	1:278:A:ALA:HB1	1:301:A:PHE:HE1	9	0.33
(2,2244)	1:278:A:ALA:HB1	1:301:A:PHE:HE2	9	0.33
(2,2244)	1:278:A:ALA:HB2	1:301:A:PHE:HE1	9	0.33
(2,2244)	1:278:A:ALA:HB2	1:301:A:PHE:HE2	9	0.33
(2,2244)	1:278:A:ALA:HB3	1:301:A:PHE:HE1	9	0.33
(2,2244)	1:278:A:ALA:HB3	1:301:A:PHE:HE2	9	0.33
(2,2153)	1:257:A:ASP:HB3	1:268:A:TRP:HZ2	3	0.33
(2,2073)	1:244:A:CYS:H	1:272:A:GLU:HG2	11	0.33
(2,1306)	1:309:A:GLU:H	1:308:A:GLU:HB2	5	0.33
(2,1059)	1:251:A:TYR:HD1	1:250:A:HIS:HD2	2	0.33
(2,1059)	1:251:A:TYR:HD2	1:250:A:HIS:HD2	2	0.33
(2,1059)	1:251:A:TYR:HD1	1:250:A:HIS:HD2	10	0.33
(2,1059)	1:251:A:TYR:HD2	1:250:A:HIS:HD2	10	0.33
(2,1022)	1:241:A:LEU:HD11	1:242:A:PHE:HZ	13	0.33
(2,1022)	1:241:A:LEU:HD12	1:242:A:PHE:HZ	13	0.33
(2,1022)	1:241:A:LEU:HD13	1:242:A:PHE:HZ	13	0.33
(2,110)	1:231:A:VAL:H	1:252:A:HIS:HB2	6	0.33
(2,105)	1:296:A:LYS:H	1:288:A:MET:HE1	12	0.33
(2,105)	1:296:A:LYS:H	1:288:A:MET:HE2	12	0.33
(2,105)	1:296:A:LYS:H	1:288:A:MET:HE3	12	0.33
(2,91)	2:662:B:ALA:HB3	2:665:B:GLN:HB2	1	0.33
(2,2485)	1:314:A:SER:HB2	1:292:A:GLU:HB3	10	0.32
(2,2335)	1:289:A:LEU:HD11	1:303:A:LEU:HG	5	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2335)	1:289:A:LEU:HD12	1:303:A:LEU:HG	5	0.32
(2,2335)	1:289:A:LEU:HD13	1:303:A:LEU:HG	5	0.32
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB1	7	0.32
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB2	7	0.32
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB3	7	0.32
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB1	9	0.32
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB2	9	0.32
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB3	9	0.32
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB1	13	0.32
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB2	13	0.32
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB3	13	0.32
(2,2244)	1:278:A:ALA:HB1	1:301:A:PHE:HE1	3	0.32
(2,2244)	1:278:A:ALA:HB1	1:301:A:PHE:HE2	3	0.32
(2,2244)	1:278:A:ALA:HB2	1:301:A:PHE:HE1	3	0.32
(2,2244)	1:278:A:ALA:HB2	1:301:A:PHE:HE2	3	0.32
(2,2244)	1:278:A:ALA:HB3	1:301:A:PHE:HE1	3	0.32
(2,2244)	1:278:A:ALA:HB3	1:301:A:PHE:HE2	3	0.32
(2,2076)	1:246:A:SER:H	1:273:A:CYS:HB3	2	0.32
(2,2073)	1:244:A:CYS:H	1:272:A:GLU:HG2	8	0.32
(2,2073)	1:244:A:CYS:H	1:272:A:GLU:HG2	10	0.32
(2,2020)	1:231:A:VAL:HG21	2:667:B:VAL:HB	5	0.32
(2,2020)	1:231:A:VAL:HG22	2:667:B:VAL:HB	5	0.32
(2,2020)	1:231:A:VAL:HG23	2:667:B:VAL:HB	5	0.32
(2,1768)	1:317:A:CYS:HA	1:315:A:TRP:HZ2	11	0.32
(2,1490)	2:666:B:LEU:H	2:665:B:GLN:HE22	2	0.32
(2,1490)	2:666:B:LEU:H	2:665:B:GLN:HE22	14	0.32
(2,1490)	2:666:B:LEU:H	2:665:B:GLN:HE22	15	0.32
(2,1053)	1:249:A:HIS:HA	1:250:A:HIS:HD2	13	0.32
(2,1022)	1:241:A:LEU:HD11	1:242:A:PHE:HZ	8	0.32
(2,1022)	1:241:A:LEU:HD12	1:242:A:PHE:HZ	8	0.32
(2,1022)	1:241:A:LEU:HD13	1:242:A:PHE:HZ	8	0.32
(2,1022)	1:241:A:LEU:HD11	1:242:A:PHE:HZ	14	0.32
(2,1022)	1:241:A:LEU:HD12	1:242:A:PHE:HZ	14	0.32
(2,1022)	1:241:A:LEU:HD13	1:242:A:PHE:HZ	14	0.32
(2,105)	1:296:A:LYS:H	1:288:A:MET:HE1	2	0.32
(2,105)	1:296:A:LYS:H	1:288:A:MET:HE2	2	0.32
(2,105)	1:296:A:LYS:H	1:288:A:MET:HE3	2	0.32
(2,90)	2:665:B:GLN:H	2:666:B:LEU:HG	14	0.32
(2,15)	1:249:A:HIS:HB2	1:250:A:HIS:HD2	4	0.32
(2,2498)	1:315:A:TRP:HB2	2:654:B:ALA:HB1	13	0.31
(2,2498)	1:315:A:TRP:HB2	2:654:B:ALA:HB2	13	0.31
(2,2498)	1:315:A:TRP:HB2	2:654:B:ALA:HB3	13	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2492)	1:315:A:TRP:H	1:292:A:GLU:HG3	1	0.31
(2,2485)	1:314:A:SER:HB2	1:292:A:GLU:HB3	15	0.31
(2,2443)	1:300:A:THR:HG21	2:658:B:ALA:H	2	0.31
(2,2443)	1:300:A:THR:HG22	2:658:B:ALA:H	2	0.31
(2,2443)	1:300:A:THR:HG23	2:658:B:ALA:H	2	0.31
(2,2389)	1:295:A:ASP:HB2	1:268:A:TRP:HD1	10	0.31
(2,2386)	1:293:A:THR:HG21	1:320:A:CYS:HB2	12	0.31
(2,2386)	1:293:A:THR:HG22	1:320:A:CYS:HB2	12	0.31
(2,2386)	1:293:A:THR:HG23	1:320:A:CYS:HB2	12	0.31
(2,2336)	1:289:A:LEU:HB2	1:304:A:LYS:H	14	0.31
(2,2251)	1:279:A:CYS:H	1:301:A:PHE:HD1	2	0.31
(2,2251)	1:279:A:CYS:H	1:301:A:PHE:HD2	2	0.31
(2,2251)	1:279:A:CYS:H	1:301:A:PHE:HD1	5	0.31
(2,2251)	1:279:A:CYS:H	1:301:A:PHE:HD2	5	0.31
(2,2251)	1:279:A:CYS:H	1:301:A:PHE:HD1	11	0.31
(2,2251)	1:279:A:CYS:H	1:301:A:PHE:HD2	11	0.31
(2,2073)	1:244:A:CYS:H	1:272:A:GLU:HG2	12	0.31
(2,2020)	1:231:A:VAL:HG21	2:667:B:VAL:HB	15	0.31
(2,2020)	1:231:A:VAL:HG22	2:667:B:VAL:HB	15	0.31
(2,2020)	1:231:A:VAL:HG23	2:667:B:VAL:HB	15	0.31
(2,2011)	1:231:A:VAL:HG11	2:664:B:ALA:H	15	0.31
(2,2011)	1:231:A:VAL:HG12	2:664:B:ALA:H	15	0.31
(2,2011)	1:231:A:VAL:HG13	2:664:B:ALA:H	15	0.31
(2,1768)	1:317:A:CYS:HA	1:315:A:TRP:HZ2	5	0.31
(2,1696)	1:295:A:ASP:H	1:292:A:GLU:H	8	0.31
(2,1696)	1:295:A:ASP:H	1:292:A:GLU:H	13	0.31
(2,1690)	1:294:A:CYS:H	1:291:A:CYS:HB3	7	0.31
(2,1490)	2:666:B:LEU:H	2:665:B:GLN:HE22	3	0.31
(2,1490)	2:666:B:LEU:H	2:665:B:GLN:HE22	5	0.31
(2,1490)	2:666:B:LEU:H	2:665:B:GLN:HE22	11	0.31
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD11	1	0.31
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD12	1	0.31
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD13	1	0.31
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD11	2	0.31
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD12	2	0.31
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD13	2	0.31
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD11	3	0.31
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD12	3	0.31
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD13	3	0.31
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD11	4	0.31
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD12	4	0.31
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD13	4	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD11	5	0.31
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD12	5	0.31
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD13	5	0.31
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD11	6	0.31
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD12	6	0.31
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD13	6	0.31
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD11	8	0.31
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD12	8	0.31
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD13	8	0.31
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD11	9	0.31
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD12	9	0.31
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD13	9	0.31
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD11	10	0.31
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD12	10	0.31
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD13	10	0.31
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD11	11	0.31
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD12	11	0.31
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD13	11	0.31
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD11	12	0.31
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD12	12	0.31
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD13	12	0.31
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD11	13	0.31
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD12	13	0.31
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD13	13	0.31
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD11	14	0.31
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD12	14	0.31
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD13	14	0.31
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD11	15	0.31
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD12	15	0.31
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD13	15	0.31
(2,373)	1:272:A:GLU:H	1:272:A:GLU:HG2	14	0.31
(2,116)	1:288:A:MET:HE2	2:657:B:LEU:H	7	0.31
(2,90)	2:665:B:GLN:H	2:666:B:LEU:HG	9	0.31
(2,74)	1:311:A:PRO:HB2	2:654:B:ALA:H	4	0.31
(2,69)	1:319:A:ALA:H	1:321:A:ARG:HD2	10	0.31
(2,52)	1:303:A:LEU:HG	1:307:A:MET:HE1	9	0.31
(2,39)	2:662:B:ALA:HB1	2:660:B:ILE:H	7	0.31
(1,18)	1:291:A:CYS:H	1:296:A:LYS:O	14	0.31
(2,2443)	1:300:A:THR:HG21	2:658:B:ALA:H	7	0.3
(2,2443)	1:300:A:THR:HG22	2:658:B:ALA:H	7	0.3
(2,2443)	1:300:A:THR:HG23	2:658:B:ALA:H	7	0.3
(2,2443)	1:300:A:THR:HG21	2:658:B:ALA:H	9	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2443)	1:300:A:THR:HG22	2:658:B:ALA:H	9	0.3
(2,2443)	1:300:A:THR:HG23	2:658:B:ALA:H	9	0.3
(2,2443)	1:300:A:THR:HG21	2:658:B:ALA:H	13	0.3
(2,2443)	1:300:A:THR:HG22	2:658:B:ALA:H	13	0.3
(2,2443)	1:300:A:THR:HG23	2:658:B:ALA:H	13	0.3
(2,2336)	1:289:A:LEU:HB2	1:304:A:LYS:H	8	0.3
(2,2335)	1:289:A:LEU:HD11	1:303:A:LEU:HG	3	0.3
(2,2335)	1:289:A:LEU:HD12	1:303:A:LEU:HG	3	0.3
(2,2335)	1:289:A:LEU:HD13	1:303:A:LEU:HG	3	0.3
(2,2335)	1:289:A:LEU:HD11	1:303:A:LEU:HG	10	0.3
(2,2335)	1:289:A:LEU:HD12	1:303:A:LEU:HG	10	0.3
(2,2335)	1:289:A:LEU:HD13	1:303:A:LEU:HG	10	0.3
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB1	14	0.3
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB2	14	0.3
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB3	14	0.3
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB1	7	0.3
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB2	7	0.3
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB3	7	0.3
(2,2251)	1:279:A:CYS:H	1:301:A:PHE:HD1	8	0.3
(2,2251)	1:279:A:CYS:H	1:301:A:PHE:HD2	8	0.3
(2,2116)	1:251:A:TYR:HD1	1:268:A:TRP:HH2	10	0.3
(2,2116)	1:251:A:TYR:HD2	1:268:A:TRP:HH2	10	0.3
(2,2011)	1:231:A:VAL:HG11	2:664:B:ALA:H	5	0.3
(2,2011)	1:231:A:VAL:HG12	2:664:B:ALA:H	5	0.3
(2,2011)	1:231:A:VAL:HG13	2:664:B:ALA:H	5	0.3
(2,2011)	1:231:A:VAL:HG11	2:664:B:ALA:H	9	0.3
(2,2011)	1:231:A:VAL:HG12	2:664:B:ALA:H	9	0.3
(2,2011)	1:231:A:VAL:HG13	2:664:B:ALA:H	9	0.3
(2,2000)	1:231:A:VAL:HB	1:255:A:CYS:HA	12	0.3
(2,1690)	1:294:A:CYS:H	1:291:A:CYS:HB3	1	0.3
(2,1690)	1:294:A:CYS:H	1:291:A:CYS:HB3	12	0.3
(2,1641)	1:276:A:CYS:H	1:274:A:LYS:HB2	13	0.3
(2,1490)	2:666:B:LEU:H	2:665:B:GLN:HE22	1	0.3
(2,1490)	2:666:B:LEU:H	2:665:B:GLN:HE22	9	0.3
(2,1306)	1:309:A:GLU:H	1:308:A:GLU:HB2	9	0.3
(2,1299)	1:307:A:MET:HA	1:308:A:GLU:H	12	0.3
(2,1059)	1:251:A:TYR:HD1	1:250:A:HIS:HD2	8	0.3
(2,1059)	1:251:A:TYR:HD2	1:250:A:HIS:HD2	8	0.3
(2,1022)	1:241:A:LEU:HD11	1:242:A:PHE:HZ	11	0.3
(2,1022)	1:241:A:LEU:HD12	1:242:A:PHE:HZ	11	0.3
(2,1022)	1:241:A:LEU:HD13	1:242:A:PHE:HZ	11	0.3
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD11	7	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD12	7	0.3
(2,855)	2:666:B:LEU:HB2	2:666:B:LEU:HD13	7	0.3
(2,373)	1:272:A:GLU:H	1:272:A:GLU:HG2	8	0.3
(2,105)	1:296:A:LYS:H	1:288:A:MET:HE1	5	0.3
(2,105)	1:296:A:LYS:H	1:288:A:MET:HE2	5	0.3
(2,105)	1:296:A:LYS:H	1:288:A:MET:HE3	5	0.3
(2,91)	2:662:B:ALA:HB3	2:665:B:GLN:HB2	11	0.3
(2,90)	2:665:B:GLN:H	2:666:B:LEU:HG	11	0.3
(2,77)	2:655:B:ARG:HB2	2:660:B:ILE:HD13	10	0.3
(2,77)	2:655:B:ARG:HB2	2:660:B:ILE:HD11	13	0.3
(2,74)	1:311:A:PRO:HB2	2:654:B:ALA:H	12	0.3
(2,2498)	1:315:A:TRP:HB2	2:654:B:ALA:HB1	2	0.29
(2,2498)	1:315:A:TRP:HB2	2:654:B:ALA:HB2	2	0.29
(2,2498)	1:315:A:TRP:HB2	2:654:B:ALA:HB3	2	0.29
(2,2485)	1:314:A:SER:HB2	1:292:A:GLU:HB3	7	0.29
(2,2443)	1:300:A:THR:HG21	2:658:B:ALA:H	5	0.29
(2,2443)	1:300:A:THR:HG22	2:658:B:ALA:H	5	0.29
(2,2443)	1:300:A:THR:HG23	2:658:B:ALA:H	5	0.29
(2,2443)	1:300:A:THR:HG21	2:658:B:ALA:H	6	0.29
(2,2443)	1:300:A:THR:HG22	2:658:B:ALA:H	6	0.29
(2,2443)	1:300:A:THR:HG23	2:658:B:ALA:H	6	0.29
(2,2443)	1:300:A:THR:HG21	2:658:B:ALA:H	11	0.29
(2,2443)	1:300:A:THR:HG22	2:658:B:ALA:H	11	0.29
(2,2443)	1:300:A:THR:HG23	2:658:B:ALA:H	11	0.29
(2,2443)	1:300:A:THR:HG21	2:658:B:ALA:H	12	0.29
(2,2443)	1:300:A:THR:HG22	2:658:B:ALA:H	12	0.29
(2,2443)	1:300:A:THR:HG23	2:658:B:ALA:H	12	0.29
(2,2336)	1:289:A:LEU:HB2	1:304:A:LYS:H	7	0.29
(2,2335)	1:289:A:LEU:HD11	1:303:A:LEU:HG	8	0.29
(2,2335)	1:289:A:LEU:HD12	1:303:A:LEU:HG	8	0.29
(2,2335)	1:289:A:LEU:HD13	1:303:A:LEU:HG	8	0.29
(2,2251)	1:279:A:CYS:H	1:301:A:PHE:HD1	7	0.29
(2,2251)	1:279:A:CYS:H	1:301:A:PHE:HD2	7	0.29
(2,2167)	1:258:A:THR:HG21	1:295:A:ASP:H	8	0.29
(2,2167)	1:258:A:THR:HG22	1:295:A:ASP:H	8	0.29
(2,2167)	1:258:A:THR:HG23	1:295:A:ASP:H	8	0.29
(2,2073)	1:244:A:CYS:H	1:272:A:GLU:HG2	6	0.29
(2,2011)	1:231:A:VAL:HG11	2:664:B:ALA:H	6	0.29
(2,2011)	1:231:A:VAL:HG12	2:664:B:ALA:H	6	0.29
(2,2011)	1:231:A:VAL:HG13	2:664:B:ALA:H	6	0.29
(2,1490)	2:666:B:LEU:H	2:665:B:GLN:HE22	4	0.29
(2,1490)	2:666:B:LEU:H	2:665:B:GLN:HE22	7	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1490)	2:666:B:LEU:H	2:665:B:GLN:HE22	8	0.29
(2,1490)	2:666:B:LEU:H	2:665:B:GLN:HE22	12	0.29
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD11	14	0.29
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD12	14	0.29
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD13	14	0.29
(2,1299)	1:307:A:MET:HA	1:308:A:GLU:H	5	0.29
(2,1299)	1:307:A:MET:HA	1:308:A:GLU:H	13	0.29
(2,1299)	1:307:A:MET:HA	1:308:A:GLU:H	14	0.29
(2,1053)	1:249:A:HIS:HA	1:250:A:HIS:HD2	8	0.29
(2,90)	2:665:B:GLN:H	2:666:B:LEU:HG	2	0.29
(2,74)	1:311:A:PRO:HB2	2:654:B:ALA:H	3	0.29
(2,74)	1:311:A:PRO:HB2	2:654:B:ALA:H	8	0.29
(2,52)	1:303:A:LEU:HG	1:307:A:MET:HE3	5	0.29
(2,52)	1:303:A:LEU:HG	1:307:A:MET:HE2	12	0.29
(2,39)	2:662:B:ALA:HB3	2:660:B:ILE:H	6	0.29
(2,39)	2:662:B:ALA:HB1	2:660:B:ILE:H	9	0.29
(2,20)	2:667:B:VAL:HG11	2:668:B:LYS:HE2	14	0.29
(2,5)	1:231:A:VAL:HG23	1:230:A:ALA:HB1	9	0.29
(2,2498)	1:315:A:TRP:HB2	2:654:B:ALA:HB1	1	0.28
(2,2498)	1:315:A:TRP:HB2	2:654:B:ALA:HB2	1	0.28
(2,2498)	1:315:A:TRP:HB2	2:654:B:ALA:HB3	1	0.28
(2,2498)	1:315:A:TRP:HB2	2:654:B:ALA:HB1	7	0.28
(2,2498)	1:315:A:TRP:HB2	2:654:B:ALA:HB2	7	0.28
(2,2498)	1:315:A:TRP:HB2	2:654:B:ALA:HB3	7	0.28
(2,2386)	1:293:A:THR:HG21	1:320:A:CYS:HB2	7	0.28
(2,2386)	1:293:A:THR:HG22	1:320:A:CYS:HB2	7	0.28
(2,2386)	1:293:A:THR:HG23	1:320:A:CYS:HB2	7	0.28
(2,2336)	1:289:A:LEU:HB2	1:304:A:LYS:H	15	0.28
(2,2335)	1:289:A:LEU:HD11	1:303:A:LEU:HG	14	0.28
(2,2335)	1:289:A:LEU:HD12	1:303:A:LEU:HG	14	0.28
(2,2335)	1:289:A:LEU:HD13	1:303:A:LEU:HG	14	0.28
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB1	3	0.28
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB2	3	0.28
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB3	3	0.28
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB1	12	0.28
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB2	12	0.28
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB3	12	0.28
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB1	12	0.28
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB2	12	0.28
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB3	12	0.28
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB1	14	0.28
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB2	14	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB3	14	0.28
(2,2251)	1:279:A:CYS:H	1:301:A:PHE:HD1	1	0.28
(2,2251)	1:279:A:CYS:H	1:301:A:PHE:HD2	1	0.28
(2,2073)	1:244:A:CYS:H	1:272:A:GLU:HG2	3	0.28
(2,2010)	1:231:A:VAL:HG11	2:663:B:LYS:H	11	0.28
(2,2010)	1:231:A:VAL:HG12	2:663:B:LYS:H	11	0.28
(2,2010)	1:231:A:VAL:HG13	2:663:B:LYS:H	11	0.28
(2,1828)	2:659:B:ASP:H	2:655:B:ARG:HG2	10	0.28
(2,1800)	1:322:A:VAL:HG11	1:320:A:CYS:HA	10	0.28
(2,1800)	1:322:A:VAL:HG12	1:320:A:CYS:HA	10	0.28
(2,1800)	1:322:A:VAL:HG13	1:320:A:CYS:HA	10	0.28
(2,1800)	1:322:A:VAL:HG11	1:320:A:CYS:HA	13	0.28
(2,1800)	1:322:A:VAL:HG12	1:320:A:CYS:HA	13	0.28
(2,1800)	1:322:A:VAL:HG13	1:320:A:CYS:HA	13	0.28
(2,1696)	1:295:A:ASP:H	1:292:A:GLU:H	1	0.28
(2,1696)	1:295:A:ASP:H	1:292:A:GLU:H	3	0.28
(2,1690)	1:294:A:CYS:H	1:291:A:CYS:HB3	11	0.28
(2,1490)	2:666:B:LEU:H	2:665:B:GLN:HE22	10	0.28
(2,1306)	1:309:A:GLU:H	1:308:A:GLU:HB2	11	0.28
(2,1299)	1:307:A:MET:HA	1:308:A:GLU:H	7	0.28
(2,1022)	1:241:A:LEU:HD11	1:242:A:PHE:HZ	4	0.28
(2,1022)	1:241:A:LEU:HD12	1:242:A:PHE:HZ	4	0.28
(2,1022)	1:241:A:LEU:HD13	1:242:A:PHE:HZ	4	0.28
(2,373)	1:272:A:GLU:H	1:272:A:GLU:HG2	13	0.28
(2,90)	2:665:B:GLN:H	2:666:B:LEU:HG	15	0.28
(2,5)	1:231:A:VAL:HG21	1:230:A:ALA:HB2	4	0.28
(1,12)	1:300:A:THR:H	1:287:A:LYS:O	15	0.28
(2,2520)	2:656:B:THR:HG21	2:662:B:ALA:H	3	0.27
(2,2520)	2:656:B:THR:HG22	2:662:B:ALA:H	3	0.27
(2,2520)	2:656:B:THR:HG23	2:662:B:ALA:H	3	0.27
(2,2485)	1:314:A:SER:HB2	1:292:A:GLU:HB3	14	0.27
(2,2443)	1:300:A:THR:HG21	2:658:B:ALA:H	3	0.27
(2,2443)	1:300:A:THR:HG22	2:658:B:ALA:H	3	0.27
(2,2443)	1:300:A:THR:HG23	2:658:B:ALA:H	3	0.27
(2,2386)	1:293:A:THR:HG21	1:320:A:CYS:HB2	1	0.27
(2,2386)	1:293:A:THR:HG22	1:320:A:CYS:HB2	1	0.27
(2,2386)	1:293:A:THR:HG23	1:320:A:CYS:HB2	1	0.27
(2,2386)	1:293:A:THR:HG21	1:320:A:CYS:HB2	11	0.27
(2,2386)	1:293:A:THR:HG22	1:320:A:CYS:HB2	11	0.27
(2,2386)	1:293:A:THR:HG23	1:320:A:CYS:HB2	11	0.27
(2,2336)	1:289:A:LEU:HB2	1:304:A:LYS:H	13	0.27
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB1	2	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB2	2	0.27
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB3	2	0.27
(2,2277)	1:285:A:ASP:HB3	2:658:B:ALA:HB1	2	0.27
(2,2277)	1:285:A:ASP:HB3	2:658:B:ALA:HB2	2	0.27
(2,2277)	1:285:A:ASP:HB3	2:658:B:ALA:HB3	2	0.27
(2,2251)	1:279:A:CYS:H	1:301:A:PHE:HD1	4	0.27
(2,2251)	1:279:A:CYS:H	1:301:A:PHE:HD2	4	0.27
(2,2251)	1:279:A:CYS:H	1:301:A:PHE:HD1	10	0.27
(2,2251)	1:279:A:CYS:H	1:301:A:PHE:HD2	10	0.27
(2,2251)	1:279:A:CYS:H	1:301:A:PHE:HD1	15	0.27
(2,2251)	1:279:A:CYS:H	1:301:A:PHE:HD2	15	0.27
(2,2167)	1:258:A:THR:HG21	1:295:A:ASP:H	7	0.27
(2,2167)	1:258:A:THR:HG22	1:295:A:ASP:H	7	0.27
(2,2167)	1:258:A:THR:HG23	1:295:A:ASP:H	7	0.27
(2,2073)	1:244:A:CYS:H	1:272:A:GLU:HG2	2	0.27
(2,2052)	1:241:A:LEU:HB3	1:250:A:HIS:HB2	4	0.27
(2,2020)	1:231:A:VAL:HG21	2:667:B:VAL:HB	2	0.27
(2,2020)	1:231:A:VAL:HG22	2:667:B:VAL:HB	2	0.27
(2,2020)	1:231:A:VAL:HG23	2:667:B:VAL:HB	2	0.27
(2,2010)	1:231:A:VAL:HG11	2:663:B:LYS:H	2	0.27
(2,2010)	1:231:A:VAL:HG12	2:663:B:LYS:H	2	0.27
(2,2010)	1:231:A:VAL:HG13	2:663:B:LYS:H	2	0.27
(2,2010)	1:231:A:VAL:HG11	2:663:B:LYS:H	3	0.27
(2,2010)	1:231:A:VAL:HG12	2:663:B:LYS:H	3	0.27
(2,2010)	1:231:A:VAL:HG13	2:663:B:LYS:H	3	0.27
(2,2010)	1:231:A:VAL:HG11	2:663:B:LYS:H	6	0.27
(2,2010)	1:231:A:VAL:HG12	2:663:B:LYS:H	6	0.27
(2,2010)	1:231:A:VAL:HG13	2:663:B:LYS:H	6	0.27
(2,1800)	1:322:A:VAL:HG11	1:320:A:CYS:HA	7	0.27
(2,1800)	1:322:A:VAL:HG12	1:320:A:CYS:HA	7	0.27
(2,1800)	1:322:A:VAL:HG13	1:320:A:CYS:HA	7	0.27
(2,1800)	1:322:A:VAL:HG11	1:320:A:CYS:HA	9	0.27
(2,1800)	1:322:A:VAL:HG12	1:320:A:CYS:HA	9	0.27
(2,1800)	1:322:A:VAL:HG13	1:320:A:CYS:HA	9	0.27
(2,1641)	1:276:A:CYS:H	1:274:A:LYS:HB2	8	0.27
(2,1641)	1:276:A:CYS:H	1:274:A:LYS:HB2	15	0.27
(2,1490)	2:666:B:LEU:H	2:665:B:GLN:HE22	13	0.27
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD11	6	0.27
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD12	6	0.27
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD13	6	0.27
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD11	9	0.27
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD12	9	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD13	9	0.27
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD11	15	0.27
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD12	15	0.27
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD13	15	0.27
(2,1022)	1:241:A:LEU:HD11	1:242:A:PHE:HZ	2	0.27
(2,1022)	1:241:A:LEU:HD12	1:242:A:PHE:HZ	2	0.27
(2,1022)	1:241:A:LEU:HD13	1:242:A:PHE:HZ	2	0.27
(2,1022)	1:241:A:LEU:HD11	1:242:A:PHE:HZ	3	0.27
(2,1022)	1:241:A:LEU:HD12	1:242:A:PHE:HZ	3	0.27
(2,1022)	1:241:A:LEU:HD13	1:242:A:PHE:HZ	3	0.27
(2,1022)	1:241:A:LEU:HD11	1:242:A:PHE:HZ	10	0.27
(2,1022)	1:241:A:LEU:HD12	1:242:A:PHE:HZ	10	0.27
(2,1022)	1:241:A:LEU:HD13	1:242:A:PHE:HZ	10	0.27
(2,522)	1:294:A:CYS:HB2	1:294:A:CYS:HB3	1	0.27
(2,522)	1:294:A:CYS:HB2	1:294:A:CYS:HB3	2	0.27
(2,522)	1:294:A:CYS:HB2	1:294:A:CYS:HB3	3	0.27
(2,522)	1:294:A:CYS:HB2	1:294:A:CYS:HB3	4	0.27
(2,522)	1:294:A:CYS:HB2	1:294:A:CYS:HB3	5	0.27
(2,522)	1:294:A:CYS:HB2	1:294:A:CYS:HB3	6	0.27
(2,522)	1:294:A:CYS:HB2	1:294:A:CYS:HB3	7	0.27
(2,522)	1:294:A:CYS:HB2	1:294:A:CYS:HB3	8	0.27
(2,522)	1:294:A:CYS:HB2	1:294:A:CYS:HB3	9	0.27
(2,522)	1:294:A:CYS:HB2	1:294:A:CYS:HB3	10	0.27
(2,522)	1:294:A:CYS:HB2	1:294:A:CYS:HB3	11	0.27
(2,522)	1:294:A:CYS:HB2	1:294:A:CYS:HB3	12	0.27
(2,522)	1:294:A:CYS:HB2	1:294:A:CYS:HB3	13	0.27
(2,522)	1:294:A:CYS:HB2	1:294:A:CYS:HB3	14	0.27
(2,522)	1:294:A:CYS:HB2	1:294:A:CYS:HB3	15	0.27
(2,373)	1:272:A:GLU:H	1:272:A:GLU:HG2	2	0.27
(2,373)	1:272:A:GLU:H	1:272:A:GLU:HG2	4	0.27
(2,373)	1:272:A:GLU:H	1:272:A:GLU:HG2	11	0.27
(2,90)	2:665:B:GLN:H	2:666:B:LEU:HG	5	0.27
(2,74)	1:311:A:PRO:HB2	2:654:B:ALA:H	1	0.27
(2,39)	2:662:B:ALA:HB1	2:660:B:ILE:H	4	0.27
(2,39)	2:662:B:ALA:HB3	2:660:B:ILE:H	10	0.27
(1,2)	1:242:A:PHE:H	1:251:A:TYR:O	13	0.27
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG11	9	0.26
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG12	9	0.26
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG13	9	0.26
(2,2530)	2:658:B:ALA:H	1:285:A:ASP:HA	9	0.26
(2,2473)	1:310:A:LEU:HD11	2:654:B:ALA:HB1	9	0.26
(2,2473)	1:310:A:LEU:HD11	2:654:B:ALA:HB2	9	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2473)	1:310:A:LEU:HD11	2:654:B:ALA:HB3	9	0.26
(2,2473)	1:310:A:LEU:HD12	2:654:B:ALA:HB1	9	0.26
(2,2473)	1:310:A:LEU:HD12	2:654:B:ALA:HB2	9	0.26
(2,2473)	1:310:A:LEU:HD12	2:654:B:ALA:HB3	9	0.26
(2,2473)	1:310:A:LEU:HD13	2:654:B:ALA:HB1	9	0.26
(2,2473)	1:310:A:LEU:HD13	2:654:B:ALA:HB2	9	0.26
(2,2473)	1:310:A:LEU:HD13	2:654:B:ALA:HB3	9	0.26
(2,2443)	1:300:A:THR:HG21	2:658:B:ALA:H	1	0.26
(2,2443)	1:300:A:THR:HG22	2:658:B:ALA:H	1	0.26
(2,2443)	1:300:A:THR:HG23	2:658:B:ALA:H	1	0.26
(2,2389)	1:295:A:ASP:HB2	1:268:A:TRP:HD1	5	0.26
(2,2336)	1:289:A:LEU:HB2	1:304:A:LYS:H	3	0.26
(2,2336)	1:289:A:LEU:HB2	1:304:A:LYS:H	9	0.26
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB1	6	0.26
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB2	6	0.26
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB3	6	0.26
(2,2316)	1:288:A:MET:H	2:656:B:THR:HG21	3	0.26
(2,2316)	1:288:A:MET:H	2:656:B:THR:HG22	3	0.26
(2,2316)	1:288:A:MET:H	2:656:B:THR:HG23	3	0.26
(2,2076)	1:246:A:SER:H	1:273:A:CYS:HB3	8	0.26
(2,2013)	1:231:A:VAL:HG11	2:664:B:ALA:HB1	14	0.26
(2,2013)	1:231:A:VAL:HG11	2:664:B:ALA:HB2	14	0.26
(2,2013)	1:231:A:VAL:HG11	2:664:B:ALA:HB3	14	0.26
(2,2013)	1:231:A:VAL:HG12	2:664:B:ALA:HB1	14	0.26
(2,2013)	1:231:A:VAL:HG12	2:664:B:ALA:HB2	14	0.26
(2,2013)	1:231:A:VAL:HG12	2:664:B:ALA:HB3	14	0.26
(2,2013)	1:231:A:VAL:HG13	2:664:B:ALA:HB1	14	0.26
(2,2013)	1:231:A:VAL:HG13	2:664:B:ALA:HB2	14	0.26
(2,2013)	1:231:A:VAL:HG13	2:664:B:ALA:HB3	14	0.26
(2,2013)	1:231:A:VAL:HG11	2:664:B:ALA:HB1	15	0.26
(2,2013)	1:231:A:VAL:HG11	2:664:B:ALA:HB2	15	0.26
(2,2013)	1:231:A:VAL:HG11	2:664:B:ALA:HB3	15	0.26
(2,2013)	1:231:A:VAL:HG12	2:664:B:ALA:HB1	15	0.26
(2,2013)	1:231:A:VAL:HG12	2:664:B:ALA:HB2	15	0.26
(2,2013)	1:231:A:VAL:HG12	2:664:B:ALA:HB3	15	0.26
(2,2013)	1:231:A:VAL:HG13	2:664:B:ALA:HB1	15	0.26
(2,2013)	1:231:A:VAL:HG13	2:664:B:ALA:HB2	15	0.26
(2,2013)	1:231:A:VAL:HG13	2:664:B:ALA:HB3	15	0.26
(2,2010)	1:231:A:VAL:HG11	2:663:B:LYS:H	1	0.26
(2,2010)	1:231:A:VAL:HG12	2:663:B:LYS:H	1	0.26
(2,2010)	1:231:A:VAL:HG13	2:663:B:LYS:H	1	0.26
(2,2010)	1:231:A:VAL:HG11	2:663:B:LYS:H	7	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2010)	1:231:A:VAL:HG12	2:663:B:LYS:H	7	0.26
(2,2010)	1:231:A:VAL:HG13	2:663:B:LYS:H	7	0.26
(2,2010)	1:231:A:VAL:HG11	2:663:B:LYS:H	13	0.26
(2,2010)	1:231:A:VAL:HG12	2:663:B:LYS:H	13	0.26
(2,2010)	1:231:A:VAL:HG13	2:663:B:LYS:H	13	0.26
(2,1800)	1:322:A:VAL:HG11	1:320:A:CYS:HA	3	0.26
(2,1800)	1:322:A:VAL:HG12	1:320:A:CYS:HA	3	0.26
(2,1800)	1:322:A:VAL:HG13	1:320:A:CYS:HA	3	0.26
(2,1800)	1:322:A:VAL:HG11	1:320:A:CYS:HA	14	0.26
(2,1800)	1:322:A:VAL:HG12	1:320:A:CYS:HA	14	0.26
(2,1800)	1:322:A:VAL:HG13	1:320:A:CYS:HA	14	0.26
(2,1768)	1:317:A:CYS:HA	1:315:A:TRP:HZ2	14	0.26
(2,1708)	1:300:A:THR:HG21	1:303:A:LEU:HG	14	0.26
(2,1708)	1:300:A:THR:HG22	1:303:A:LEU:HG	14	0.26
(2,1708)	1:300:A:THR:HG23	1:303:A:LEU:HG	14	0.26
(2,1641)	1:276:A:CYS:H	1:274:A:LYS:HB2	10	0.26
(2,1641)	1:276:A:CYS:H	1:274:A:LYS:HB2	14	0.26
(2,1299)	1:307:A:MET:HA	1:308:A:GLU:H	2	0.26
(2,1299)	1:307:A:MET:HA	1:308:A:GLU:H	4	0.26
(2,1022)	1:241:A:LEU:HD11	1:242:A:PHE:HZ	12	0.26
(2,1022)	1:241:A:LEU:HD12	1:242:A:PHE:HZ	12	0.26
(2,1022)	1:241:A:LEU:HD13	1:242:A:PHE:HZ	12	0.26
(2,899)	2:668:B:LYS:HG3	2:668:B:LYS:HE2	1	0.26
(2,394)	1:274:A:LYS:HA	1:274:A:LYS:HG2	4	0.26
(2,105)	1:296:A:LYS:H	1:288:A:MET:HE1	1	0.26
(2,105)	1:296:A:LYS:H	1:288:A:MET:HE2	1	0.26
(2,105)	1:296:A:LYS:H	1:288:A:MET:HE3	1	0.26
(2,90)	2:665:B:GLN:H	2:666:B:LEU:HG	8	0.26
(2,90)	2:665:B:GLN:H	2:666:B:LEU:HG	10	0.26
(2,80)	2:657:B:LEU:HD12	2:660:B:ILE:HD13	1	0.26
(2,52)	1:303:A:LEU:HG	1:307:A:MET:HE1	1	0.26
(2,15)	1:249:A:HIS:HB2	1:250:A:HIS:HD2	15	0.26
(1,10)	1:265:A:ARG:H	1:261:A:THR:O	4	0.26
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG11	6	0.25
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG12	6	0.25
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG13	6	0.25
(2,2520)	2:656:B:THR:HG21	2:662:B:ALA:H	1	0.25
(2,2520)	2:656:B:THR:HG22	2:662:B:ALA:H	1	0.25
(2,2520)	2:656:B:THR:HG23	2:662:B:ALA:H	1	0.25
(2,2443)	1:300:A:THR:HG21	2:658:B:ALA:H	4	0.25
(2,2443)	1:300:A:THR:HG22	2:658:B:ALA:H	4	0.25
(2,2443)	1:300:A:THR:HG23	2:658:B:ALA:H	4	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2336)	1:289:A:LEU:HB2	1:304:A:LYS:H	1	0.25
(2,2336)	1:289:A:LEU:HB2	1:304:A:LYS:H	4	0.25
(2,2336)	1:289:A:LEU:HB2	1:304:A:LYS:H	5	0.25
(2,2336)	1:289:A:LEU:HB2	1:304:A:LYS:H	11	0.25
(2,2251)	1:279:A:CYS:H	1:301:A:PHE:HD1	13	0.25
(2,2251)	1:279:A:CYS:H	1:301:A:PHE:HD2	13	0.25
(2,2244)	1:278:A:ALA:HB1	1:301:A:PHE:HE1	13	0.25
(2,2244)	1:278:A:ALA:HB1	1:301:A:PHE:HE2	13	0.25
(2,2244)	1:278:A:ALA:HB2	1:301:A:PHE:HE1	13	0.25
(2,2244)	1:278:A:ALA:HB2	1:301:A:PHE:HE2	13	0.25
(2,2244)	1:278:A:ALA:HB3	1:301:A:PHE:HE1	13	0.25
(2,2244)	1:278:A:ALA:HB3	1:301:A:PHE:HE2	13	0.25
(2,2203)	1:272:A:GLU:H	2:668:B:LYS:HD2	12	0.25
(2,2167)	1:258:A:THR:HG21	1:295:A:ASP:H	13	0.25
(2,2167)	1:258:A:THR:HG22	1:295:A:ASP:H	13	0.25
(2,2167)	1:258:A:THR:HG23	1:295:A:ASP:H	13	0.25
(2,2130)	1:255:A:CYS:H	1:231:A:VAL:HG21	15	0.25
(2,2130)	1:255:A:CYS:H	1:231:A:VAL:HG22	15	0.25
(2,2130)	1:255:A:CYS:H	1:231:A:VAL:HG23	15	0.25
(2,2072)	1:244:A:CYS:H	1:270:A:CYS:H	2	0.25
(2,2052)	1:241:A:LEU:HB3	1:250:A:HIS:HB2	11	0.25
(2,2013)	1:231:A:VAL:HG11	2:664:B:ALA:HB1	6	0.25
(2,2013)	1:231:A:VAL:HG11	2:664:B:ALA:HB2	6	0.25
(2,2013)	1:231:A:VAL:HG11	2:664:B:ALA:HB3	6	0.25
(2,2013)	1:231:A:VAL:HG12	2:664:B:ALA:HB1	6	0.25
(2,2013)	1:231:A:VAL:HG12	2:664:B:ALA:HB2	6	0.25
(2,2013)	1:231:A:VAL:HG12	2:664:B:ALA:HB3	6	0.25
(2,2013)	1:231:A:VAL:HG13	2:664:B:ALA:HB1	6	0.25
(2,2013)	1:231:A:VAL:HG13	2:664:B:ALA:HB2	6	0.25
(2,2013)	1:231:A:VAL:HG13	2:664:B:ALA:HB3	6	0.25
(2,2011)	1:231:A:VAL:HG11	2:664:B:ALA:H	2	0.25
(2,2011)	1:231:A:VAL:HG12	2:664:B:ALA:H	2	0.25
(2,2011)	1:231:A:VAL:HG13	2:664:B:ALA:H	2	0.25
(2,2010)	1:231:A:VAL:HG11	2:663:B:LYS:H	5	0.25
(2,2010)	1:231:A:VAL:HG12	2:663:B:LYS:H	5	0.25
(2,2010)	1:231:A:VAL:HG13	2:663:B:LYS:H	5	0.25
(2,2010)	1:231:A:VAL:HG11	2:663:B:LYS:H	8	0.25
(2,2010)	1:231:A:VAL:HG12	2:663:B:LYS:H	8	0.25
(2,2010)	1:231:A:VAL:HG13	2:663:B:LYS:H	8	0.25
(2,2010)	1:231:A:VAL:HG11	2:663:B:LYS:H	9	0.25
(2,2010)	1:231:A:VAL:HG12	2:663:B:LYS:H	9	0.25
(2,2010)	1:231:A:VAL:HG13	2:663:B:LYS:H	9	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2010)	1:231:A:VAL:HG11	2:663:B:LYS:H	12	0.25
(2,2010)	1:231:A:VAL:HG12	2:663:B:LYS:H	12	0.25
(2,2010)	1:231:A:VAL:HG13	2:663:B:LYS:H	12	0.25
(2,2010)	1:231:A:VAL:HG11	2:663:B:LYS:H	15	0.25
(2,2010)	1:231:A:VAL:HG12	2:663:B:LYS:H	15	0.25
(2,2010)	1:231:A:VAL:HG13	2:663:B:LYS:H	15	0.25
(2,2000)	1:231:A:VAL:HB	1:255:A:CYS:HA	6	0.25
(2,1983)	1:230:A:ALA:H	1:241:A:LEU:HD21	11	0.25
(2,1983)	1:230:A:ALA:H	1:241:A:LEU:HD22	11	0.25
(2,1983)	1:230:A:ALA:H	1:241:A:LEU:HD23	11	0.25
(2,1983)	1:230:A:ALA:H	1:241:A:LEU:HD21	14	0.25
(2,1983)	1:230:A:ALA:H	1:241:A:LEU:HD22	14	0.25
(2,1983)	1:230:A:ALA:H	1:241:A:LEU:HD23	14	0.25
(2,1800)	1:322:A:VAL:HG11	1:320:A:CYS:HA	6	0.25
(2,1800)	1:322:A:VAL:HG12	1:320:A:CYS:HA	6	0.25
(2,1800)	1:322:A:VAL:HG13	1:320:A:CYS:HA	6	0.25
(2,1800)	1:322:A:VAL:HG11	1:320:A:CYS:HA	12	0.25
(2,1800)	1:322:A:VAL:HG12	1:320:A:CYS:HA	12	0.25
(2,1800)	1:322:A:VAL:HG13	1:320:A:CYS:HA	12	0.25
(2,1800)	1:322:A:VAL:HG11	1:320:A:CYS:HA	15	0.25
(2,1800)	1:322:A:VAL:HG12	1:320:A:CYS:HA	15	0.25
(2,1800)	1:322:A:VAL:HG13	1:320:A:CYS:HA	15	0.25
(2,1696)	1:295:A:ASP:H	1:292:A:GLU:H	9	0.25
(2,1695)	1:295:A:ASP:H	1:291:A:CYS:HB2	14	0.25
(2,1690)	1:294:A:CYS:H	1:291:A:CYS:HB3	10	0.25
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD11	2	0.25
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD12	2	0.25
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD13	2	0.25
(2,1366)	1:317:A:CYS:H	1:316:A:LYS:HB2	8	0.25
(2,1366)	1:317:A:CYS:H	1:316:A:LYS:HB2	9	0.25
(2,1299)	1:307:A:MET:HA	1:308:A:GLU:H	1	0.25
(2,1059)	1:251:A:TYR:HD1	1:250:A:HIS:HD2	9	0.25
(2,1059)	1:251:A:TYR:HD2	1:250:A:HIS:HD2	9	0.25
(2,1059)	1:251:A:TYR:HD1	1:250:A:HIS:HD2	14	0.25
(2,1059)	1:251:A:TYR:HD2	1:250:A:HIS:HD2	14	0.25
(2,373)	1:272:A:GLU:H	1:272:A:GLU:HG2	5	0.25
(2,39)	2:662:B:ALA:HB3	2:660:B:ILE:H	14	0.25
(2,2528)	2:658:B:ALA:H	1:285:A:ASP:H	1	0.24
(2,2528)	2:658:B:ALA:H	1:285:A:ASP:H	13	0.24
(2,2520)	2:656:B:THR:HG21	2:662:B:ALA:H	2	0.24
(2,2520)	2:656:B:THR:HG22	2:662:B:ALA:H	2	0.24
(2,2520)	2:656:B:THR:HG23	2:662:B:ALA:H	2	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2520)	2:656:B:THR:HG21	2:662:B:ALA:H	12	0.24
(2,2520)	2:656:B:THR:HG22	2:662:B:ALA:H	12	0.24
(2,2520)	2:656:B:THR:HG23	2:662:B:ALA:H	12	0.24
(2,2498)	1:315:A:TRP:HB2	2:654:B:ALA:HB1	9	0.24
(2,2498)	1:315:A:TRP:HB2	2:654:B:ALA:HB2	9	0.24
(2,2498)	1:315:A:TRP:HB2	2:654:B:ALA:HB3	9	0.24
(2,2450)	1:303:A:LEU:HG	1:315:A:TRP:HE1	14	0.24
(2,2443)	1:300:A:THR:HG21	2:658:B:ALA:H	8	0.24
(2,2443)	1:300:A:THR:HG22	2:658:B:ALA:H	8	0.24
(2,2443)	1:300:A:THR:HG23	2:658:B:ALA:H	8	0.24
(2,2336)	1:289:A:LEU:HB2	1:304:A:LYS:H	6	0.24
(2,2336)	1:289:A:LEU:HB2	1:304:A:LYS:H	10	0.24
(2,2336)	1:289:A:LEU:HB2	1:304:A:LYS:H	12	0.24
(2,2130)	1:255:A:CYS:H	1:231:A:VAL:HG21	7	0.24
(2,2130)	1:255:A:CYS:H	1:231:A:VAL:HG22	7	0.24
(2,2130)	1:255:A:CYS:H	1:231:A:VAL:HG23	7	0.24
(2,2052)	1:241:A:LEU:HB3	1:250:A:HIS:HB2	12	0.24
(2,2017)	1:231:A:VAL:HG21	2:665:B:GLN:H	2	0.24
(2,2017)	1:231:A:VAL:HG22	2:665:B:GLN:H	2	0.24
(2,2017)	1:231:A:VAL:HG23	2:665:B:GLN:H	2	0.24
(2,2013)	1:231:A:VAL:HG11	2:664:B:ALA:HB1	9	0.24
(2,2013)	1:231:A:VAL:HG11	2:664:B:ALA:HB2	9	0.24
(2,2013)	1:231:A:VAL:HG11	2:664:B:ALA:HB3	9	0.24
(2,2013)	1:231:A:VAL:HG12	2:664:B:ALA:HB1	9	0.24
(2,2013)	1:231:A:VAL:HG12	2:664:B:ALA:HB2	9	0.24
(2,2013)	1:231:A:VAL:HG12	2:664:B:ALA:HB3	9	0.24
(2,2013)	1:231:A:VAL:HG13	2:664:B:ALA:HB1	9	0.24
(2,2013)	1:231:A:VAL:HG13	2:664:B:ALA:HB2	9	0.24
(2,2013)	1:231:A:VAL:HG13	2:664:B:ALA:HB3	9	0.24
(2,2011)	1:231:A:VAL:HG11	2:664:B:ALA:H	1	0.24
(2,2011)	1:231:A:VAL:HG12	2:664:B:ALA:H	1	0.24
(2,2011)	1:231:A:VAL:HG13	2:664:B:ALA:H	1	0.24
(2,2011)	1:231:A:VAL:HG11	2:664:B:ALA:H	3	0.24
(2,2011)	1:231:A:VAL:HG12	2:664:B:ALA:H	3	0.24
(2,2011)	1:231:A:VAL:HG13	2:664:B:ALA:H	3	0.24
(2,2011)	1:231:A:VAL:HG11	2:664:B:ALA:H	11	0.24
(2,2011)	1:231:A:VAL:HG12	2:664:B:ALA:H	11	0.24
(2,2011)	1:231:A:VAL:HG13	2:664:B:ALA:H	11	0.24
(2,2010)	1:231:A:VAL:HG11	2:663:B:LYS:H	4	0.24
(2,2010)	1:231:A:VAL:HG12	2:663:B:LYS:H	4	0.24
(2,2010)	1:231:A:VAL:HG13	2:663:B:LYS:H	4	0.24
(2,2010)	1:231:A:VAL:HG11	2:663:B:LYS:H	14	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2010)	1:231:A:VAL:HG12	2:663:B:LYS:H	14	0.24
(2,2010)	1:231:A:VAL:HG13	2:663:B:LYS:H	14	0.24
(2,2001)	1:231:A:VAL:HG21	1:255:A:CYS:HB2	1	0.24
(2,2001)	1:231:A:VAL:HG22	1:255:A:CYS:HB2	1	0.24
(2,2001)	1:231:A:VAL:HG23	1:255:A:CYS:HB2	1	0.24
(2,2001)	1:231:A:VAL:HG21	1:255:A:CYS:HB2	4	0.24
(2,2001)	1:231:A:VAL:HG22	1:255:A:CYS:HB2	4	0.24
(2,2001)	1:231:A:VAL:HG23	1:255:A:CYS:HB2	4	0.24
(2,1800)	1:322:A:VAL:HG11	1:320:A:CYS:HA	5	0.24
(2,1800)	1:322:A:VAL:HG12	1:320:A:CYS:HA	5	0.24
(2,1800)	1:322:A:VAL:HG13	1:320:A:CYS:HA	5	0.24
(2,1700)	1:299:A:HIS:HD2	1:301:A:PHE:HE1	15	0.24
(2,1700)	1:299:A:HIS:HD2	1:301:A:PHE:HE2	15	0.24
(2,1696)	1:295:A:ASP:H	1:292:A:GLU:H	7	0.24
(2,1299)	1:307:A:MET:HA	1:308:A:GLU:H	3	0.24
(2,1299)	1:307:A:MET:HA	1:308:A:GLU:H	6	0.24
(2,1203)	1:288:A:MET:HE1	1:287:A:LYS:H	6	0.24
(2,1203)	1:288:A:MET:HE2	1:287:A:LYS:H	6	0.24
(2,1203)	1:288:A:MET:HE3	1:287:A:LYS:H	6	0.24
(2,1053)	1:249:A:HIS:HA	1:250:A:HIS:HD2	5	0.24
(2,1053)	1:249:A:HIS:HA	1:250:A:HIS:HD2	10	0.24
(2,1022)	1:241:A:LEU:HD11	1:242:A:PHE:HZ	6	0.24
(2,1022)	1:241:A:LEU:HD12	1:242:A:PHE:HZ	6	0.24
(2,1022)	1:241:A:LEU:HD13	1:242:A:PHE:HZ	6	0.24
(2,91)	2:662:B:ALA:HB3	2:665:B:GLN:HB2	7	0.24
(2,90)	2:665:B:GLN:H	2:666:B:LEU:HG	1	0.24
(2,90)	2:665:B:GLN:H	2:666:B:LEU:HG	3	0.24
(2,39)	2:662:B:ALA:HB2	2:660:B:ILE:H	2	0.24
(2,39)	2:662:B:ALA:HB3	2:660:B:ILE:H	13	0.24
(1,18)	1:291:A:CYS:H	1:296:A:LYS:O	3	0.24
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG11	2	0.23
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG12	2	0.23
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG13	2	0.23
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG11	8	0.23
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG12	8	0.23
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG13	8	0.23
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG11	11	0.23
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG12	11	0.23
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG13	11	0.23
(2,2530)	2:658:B:ALA:H	1:285:A:ASP:HA	6	0.23
(2,2528)	2:658:B:ALA:H	1:285:A:ASP:H	9	0.23
(2,2445)	1:301:A:PHE:H	1:306:A:PRO:HB2	10	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2411)	1:298:A:TYR:H	2:657:B:LEU:HD11	9	0.23
(2,2411)	1:298:A:TYR:H	2:657:B:LEU:HD12	9	0.23
(2,2411)	1:298:A:TYR:H	2:657:B:LEU:HD13	9	0.23
(2,2386)	1:293:A:THR:HG21	1:320:A:CYS:HB2	2	0.23
(2,2386)	1:293:A:THR:HG22	1:320:A:CYS:HB2	2	0.23
(2,2386)	1:293:A:THR:HG23	1:320:A:CYS:HB2	2	0.23
(2,2386)	1:293:A:THR:HG21	1:320:A:CYS:HB2	10	0.23
(2,2386)	1:293:A:THR:HG22	1:320:A:CYS:HB2	10	0.23
(2,2386)	1:293:A:THR:HG23	1:320:A:CYS:HB2	10	0.23
(2,2335)	1:289:A:LEU:HD11	1:303:A:LEU:HG	6	0.23
(2,2335)	1:289:A:LEU:HD12	1:303:A:LEU:HG	6	0.23
(2,2335)	1:289:A:LEU:HD13	1:303:A:LEU:HG	6	0.23
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB1	2	0.23
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB2	2	0.23
(2,2323)	1:288:A:MET:H	2:662:B:ALA:HB3	2	0.23
(2,2167)	1:258:A:THR:HG21	1:295:A:ASP:H	14	0.23
(2,2167)	1:258:A:THR:HG22	1:295:A:ASP:H	14	0.23
(2,2167)	1:258:A:THR:HG23	1:295:A:ASP:H	14	0.23
(2,2167)	1:258:A:THR:HG21	1:295:A:ASP:H	15	0.23
(2,2167)	1:258:A:THR:HG22	1:295:A:ASP:H	15	0.23
(2,2167)	1:258:A:THR:HG23	1:295:A:ASP:H	15	0.23
(2,2148)	1:256:A:LEU:HD11	2:666:B:LEU:H	15	0.23
(2,2148)	1:256:A:LEU:HD12	2:666:B:LEU:H	15	0.23
(2,2148)	1:256:A:LEU:HD13	2:666:B:LEU:H	15	0.23
(2,2130)	1:255:A:CYS:H	1:231:A:VAL:HG21	1	0.23
(2,2130)	1:255:A:CYS:H	1:231:A:VAL:HG22	1	0.23
(2,2130)	1:255:A:CYS:H	1:231:A:VAL:HG23	1	0.23
(2,2116)	1:251:A:TYR:HD1	1:268:A:TRP:HH2	5	0.23
(2,2116)	1:251:A:TYR:HD2	1:268:A:TRP:HH2	5	0.23
(2,2052)	1:241:A:LEU:HB3	1:250:A:HIS:HB2	2	0.23
(2,2001)	1:231:A:VAL:HG21	1:255:A:CYS:HB2	6	0.23
(2,2001)	1:231:A:VAL:HG22	1:255:A:CYS:HB2	6	0.23
(2,2001)	1:231:A:VAL:HG23	1:255:A:CYS:HB2	6	0.23
(2,2001)	1:231:A:VAL:HG21	1:255:A:CYS:HB2	10	0.23
(2,2001)	1:231:A:VAL:HG22	1:255:A:CYS:HB2	10	0.23
(2,2001)	1:231:A:VAL:HG23	1:255:A:CYS:HB2	10	0.23
(2,2001)	1:231:A:VAL:HG21	1:255:A:CYS:HB2	13	0.23
(2,2001)	1:231:A:VAL:HG22	1:255:A:CYS:HB2	13	0.23
(2,2001)	1:231:A:VAL:HG23	1:255:A:CYS:HB2	13	0.23
(2,1884)	2:667:B:VAL:H	2:663:B:LYS:H	5	0.23
(2,1784)	1:320:A:CYS:HA	1:322:A:VAL:HB	1	0.23
(2,1784)	1:320:A:CYS:HA	1:322:A:VAL:HB	11	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1720)	1:302:A:CYS:H	1:306:A:PRO:HB2	15	0.23
(2,1563)	1:239:A:CYS:H	1:241:A:LEU:H	1	0.23
(2,1551)	1:234:A:GLY:H	1:232:A:CYS:H	2	0.23
(2,1489)	2:666:B:LEU:H	2:665:B:GLN:HA	12	0.23
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD11	8	0.23
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD12	8	0.23
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD13	8	0.23
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD11	13	0.23
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD12	13	0.23
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD13	13	0.23
(2,1299)	1:307:A:MET:HA	1:308:A:GLU:H	8	0.23
(2,1299)	1:307:A:MET:HA	1:308:A:GLU:H	15	0.23
(2,1086)	1:257:A:ASP:H	1:256:A:LEU:HG	1	0.23
(2,1086)	1:257:A:ASP:H	1:256:A:LEU:HG	4	0.23
(2,979)	1:232:A:CYS:HB2	1:231:A:VAL:HG21	6	0.23
(2,979)	1:232:A:CYS:HB2	1:231:A:VAL:HG22	6	0.23
(2,979)	1:232:A:CYS:HB2	1:231:A:VAL:HG23	6	0.23
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD21	2	0.23
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD22	2	0.23
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD23	2	0.23
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD21	12	0.23
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD22	12	0.23
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD23	12	0.23
(2,694)	1:316:A:LYS:HD2	1:316:A:LYS:HB3	7	0.23
(2,373)	1:272:A:GLU:H	1:272:A:GLU:HG2	12	0.23
(2,66)	1:315:A:TRP:H	1:316:A:LYS:HB3	6	0.23
(2,63)	1:310:A:LEU:HB2	1:307:A:MET:HE2	13	0.23
(2,52)	1:303:A:LEU:HG	1:307:A:MET:HE3	14	0.23
(2,39)	2:662:B:ALA:HB1	2:660:B:ILE:H	11	0.23
(1,36)	2:664:B:ALA:H	2:660:B:ILE:O	13	0.23
(1,32)	2:662:B:ALA:H	2:658:B:ALA:O	13	0.23
(1,2)	1:242:A:PHE:H	1:251:A:TYR:O	5	0.23
(1,2)	1:242:A:PHE:H	1:251:A:TYR:O	8	0.23
(1,2)	1:242:A:PHE:H	1:251:A:TYR:O	15	0.23
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG11	5	0.22
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG12	5	0.22
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG13	5	0.22
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG11	14	0.22
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG12	14	0.22
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG13	14	0.22
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG11	15	0.22
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG12	15	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG13	15	0.22
(2,2530)	2:658:B:ALA:H	1:285:A:ASP:HA	3	0.22
(2,2528)	2:658:B:ALA:H	1:285:A:ASP:H	4	0.22
(2,2520)	2:656:B:THR:HG21	2:662:B:ALA:H	11	0.22
(2,2520)	2:656:B:THR:HG22	2:662:B:ALA:H	11	0.22
(2,2520)	2:656:B:THR:HG23	2:662:B:ALA:H	11	0.22
(2,2450)	1:303:A:LEU:HG	1:315:A:TRP:HE1	12	0.22
(2,2443)	1:300:A:THR:HG21	2:658:B:ALA:H	15	0.22
(2,2443)	1:300:A:THR:HG22	2:658:B:ALA:H	15	0.22
(2,2443)	1:300:A:THR:HG23	2:658:B:ALA:H	15	0.22
(2,2411)	1:298:A:TYR:H	2:657:B:LEU:HD11	8	0.22
(2,2411)	1:298:A:TYR:H	2:657:B:LEU:HD12	8	0.22
(2,2411)	1:298:A:TYR:H	2:657:B:LEU:HD13	8	0.22
(2,2410)	1:298:A:TYR:H	1:315:A:TRP:HD1	3	0.22
(2,2410)	1:298:A:TYR:H	1:315:A:TRP:HD1	6	0.22
(2,2389)	1:295:A:ASP:HB2	1:268:A:TRP:HD1	9	0.22
(2,2336)	1:289:A:LEU:HB2	1:304:A:LYS:H	2	0.22
(2,2153)	1:257:A:ASP:HB3	1:268:A:TRP:HZ2	11	0.22
(2,2052)	1:241:A:LEU:HB3	1:250:A:HIS:HB2	3	0.22
(2,2013)	1:231:A:VAL:HG11	2:664:B:ALA:HB1	5	0.22
(2,2013)	1:231:A:VAL:HG11	2:664:B:ALA:HB2	5	0.22
(2,2013)	1:231:A:VAL:HG11	2:664:B:ALA:HB3	5	0.22
(2,2013)	1:231:A:VAL:HG12	2:664:B:ALA:HB1	5	0.22
(2,2013)	1:231:A:VAL:HG12	2:664:B:ALA:HB2	5	0.22
(2,2013)	1:231:A:VAL:HG12	2:664:B:ALA:HB3	5	0.22
(2,2013)	1:231:A:VAL:HG13	2:664:B:ALA:HB1	5	0.22
(2,2013)	1:231:A:VAL:HG13	2:664:B:ALA:HB2	5	0.22
(2,2013)	1:231:A:VAL:HG13	2:664:B:ALA:HB3	5	0.22
(2,2011)	1:231:A:VAL:HG11	2:664:B:ALA:H	14	0.22
(2,2011)	1:231:A:VAL:HG12	2:664:B:ALA:H	14	0.22
(2,2011)	1:231:A:VAL:HG13	2:664:B:ALA:H	14	0.22
(2,2010)	1:231:A:VAL:HG11	2:663:B:LYS:H	10	0.22
(2,2010)	1:231:A:VAL:HG12	2:663:B:LYS:H	10	0.22
(2,2010)	1:231:A:VAL:HG13	2:663:B:LYS:H	10	0.22
(2,2001)	1:231:A:VAL:HG21	1:255:A:CYS:HB2	7	0.22
(2,2001)	1:231:A:VAL:HG22	1:255:A:CYS:HB2	7	0.22
(2,2001)	1:231:A:VAL:HG23	1:255:A:CYS:HB2	7	0.22
(2,1983)	1:230:A:ALA:H	1:241:A:LEU:HD21	1	0.22
(2,1983)	1:230:A:ALA:H	1:241:A:LEU:HD22	1	0.22
(2,1983)	1:230:A:ALA:H	1:241:A:LEU:HD23	1	0.22
(2,1720)	1:302:A:CYS:H	1:306:A:PRO:HB2	8	0.22
(2,1700)	1:299:A:HIS:HD2	1:301:A:PHE:HE1	8	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1700)	1:299:A:HIS:HD2	1:301:A:PHE:HE2	8	0.22
(2,1696)	1:295:A:ASP:H	1:292:A:GLU:H	14	0.22
(2,1489)	2:666:B:LEU:H	2:665:B:GLN:HA	1	0.22
(2,1489)	2:666:B:LEU:H	2:665:B:GLN:HA	2	0.22
(2,1489)	2:666:B:LEU:H	2:665:B:GLN:HA	3	0.22
(2,1489)	2:666:B:LEU:H	2:665:B:GLN:HA	4	0.22
(2,1489)	2:666:B:LEU:H	2:665:B:GLN:HA	5	0.22
(2,1489)	2:666:B:LEU:H	2:665:B:GLN:HA	6	0.22
(2,1489)	2:666:B:LEU:H	2:665:B:GLN:HA	7	0.22
(2,1489)	2:666:B:LEU:H	2:665:B:GLN:HA	8	0.22
(2,1489)	2:666:B:LEU:H	2:665:B:GLN:HA	9	0.22
(2,1489)	2:666:B:LEU:H	2:665:B:GLN:HA	11	0.22
(2,1489)	2:666:B:LEU:H	2:665:B:GLN:HA	13	0.22
(2,1489)	2:666:B:LEU:H	2:665:B:GLN:HA	14	0.22
(2,1366)	1:317:A:CYS:H	1:316:A:LYS:HB2	2	0.22
(2,1366)	1:317:A:CYS:H	1:316:A:LYS:HB2	15	0.22
(2,1321)	1:310:A:LEU:HD11	1:309:A:GLU:HG2	11	0.22
(2,1321)	1:310:A:LEU:HD12	1:309:A:GLU:HG2	11	0.22
(2,1321)	1:310:A:LEU:HD13	1:309:A:GLU:HG2	11	0.22
(2,1321)	1:310:A:LEU:HD11	1:309:A:GLU:HG2	14	0.22
(2,1321)	1:310:A:LEU:HD12	1:309:A:GLU:HG2	14	0.22
(2,1321)	1:310:A:LEU:HD13	1:309:A:GLU:HG2	14	0.22
(2,1299)	1:307:A:MET:HA	1:308:A:GLU:H	10	0.22
(2,1059)	1:251:A:TYR:HD1	1:250:A:HIS:HD2	5	0.22
(2,1059)	1:251:A:TYR:HD2	1:250:A:HIS:HD2	5	0.22
(2,1059)	1:251:A:TYR:HD1	1:250:A:HIS:HD2	15	0.22
(2,1059)	1:251:A:TYR:HD2	1:250:A:HIS:HD2	15	0.22
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD21	1	0.22
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD22	1	0.22
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD23	1	0.22
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD21	3	0.22
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD22	3	0.22
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD23	3	0.22
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD21	4	0.22
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD22	4	0.22
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD23	4	0.22
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD21	5	0.22
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD22	5	0.22
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD23	5	0.22
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD21	6	0.22
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD22	6	0.22
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD23	6	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD21	7	0.22
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD22	7	0.22
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD23	7	0.22
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD21	8	0.22
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD22	8	0.22
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD23	8	0.22
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD21	9	0.22
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD22	9	0.22
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD23	9	0.22
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD21	10	0.22
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD22	10	0.22
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD23	10	0.22
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD21	11	0.22
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD22	11	0.22
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD23	11	0.22
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD21	13	0.22
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD22	13	0.22
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD23	13	0.22
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD21	14	0.22
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD22	14	0.22
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD23	14	0.22
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD21	15	0.22
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD22	15	0.22
(2,853)	2:666:B:LEU:HB3	2:666:B:LEU:HD23	15	0.22
(2,694)	1:316:A:LYS:HD2	1:316:A:LYS:HB3	11	0.22
(2,373)	1:272:A:GLU:H	1:272:A:GLU:HG2	15	0.22
(2,151)	1:231:A:VAL:HA	1:231:A:VAL:HB	12	0.22
(2,90)	2:665:B:GLN:H	2:666:B:LEU:HG	12	0.22
(2,80)	2:657:B:LEU:HD12	2:660:B:ILE:HD12	5	0.22
(2,52)	1:303:A:LEU:HG	1:307:A:MET:HE1	4	0.22
(2,42)	1:292:A:GLU:H	1:316:A:LYS:HD2	11	0.22
(2,20)	2:667:B:VAL:HG11	2:668:B:LYS:HE2	5	0.22
(1,36)	2:664:B:ALA:H	2:660:B:ILE:O	6	0.22
(1,36)	2:664:B:ALA:H	2:660:B:ILE:O	14	0.22
(1,32)	2:662:B:ALA:H	2:658:B:ALA:O	8	0.22
(1,32)	2:662:B:ALA:H	2:658:B:ALA:O	10	0.22
(1,32)	2:662:B:ALA:H	2:658:B:ALA:O	15	0.22
(1,8)	1:250:A:HIS:H	1:227:A:ALA:O	6	0.22
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG11	3	0.21
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG12	3	0.21
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG13	3	0.21
(2,2528)	2:658:B:ALA:H	1:285:A:ASP:H	5	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2528)	2:658:B:ALA:H	1:285:A:ASP:H	8	0.21
(2,2528)	2:658:B:ALA:H	1:285:A:ASP:H	12	0.21
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB1	10	0.21
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB2	10	0.21
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB3	10	0.21
(2,2520)	2:656:B:THR:HG21	2:662:B:ALA:H	5	0.21
(2,2520)	2:656:B:THR:HG22	2:662:B:ALA:H	5	0.21
(2,2520)	2:656:B:THR:HG23	2:662:B:ALA:H	5	0.21
(2,2498)	1:315:A:TRP:HB2	2:654:B:ALA:HB1	5	0.21
(2,2498)	1:315:A:TRP:HB2	2:654:B:ALA:HB2	5	0.21
(2,2498)	1:315:A:TRP:HB2	2:654:B:ALA:HB3	5	0.21
(2,2473)	1:310:A:LEU:HD11	2:654:B:ALA:HB1	15	0.21
(2,2473)	1:310:A:LEU:HD11	2:654:B:ALA:HB2	15	0.21
(2,2473)	1:310:A:LEU:HD11	2:654:B:ALA:HB3	15	0.21
(2,2473)	1:310:A:LEU:HD12	2:654:B:ALA:HB1	15	0.21
(2,2473)	1:310:A:LEU:HD12	2:654:B:ALA:HB2	15	0.21
(2,2473)	1:310:A:LEU:HD12	2:654:B:ALA:HB3	15	0.21
(2,2473)	1:310:A:LEU:HD13	2:654:B:ALA:HB1	15	0.21
(2,2473)	1:310:A:LEU:HD13	2:654:B:ALA:HB2	15	0.21
(2,2473)	1:310:A:LEU:HD13	2:654:B:ALA:HB3	15	0.21
(2,2389)	1:295:A:ASP:HB2	1:268:A:TRP:HD1	15	0.21
(2,2386)	1:293:A:THR:HG21	1:320:A:CYS:HB2	15	0.21
(2,2386)	1:293:A:THR:HG22	1:320:A:CYS:HB2	15	0.21
(2,2386)	1:293:A:THR:HG23	1:320:A:CYS:HB2	15	0.21
(2,2366)	1:290:A:VAL:H	2:656:B:THR:HG21	9	0.21
(2,2366)	1:290:A:VAL:H	2:656:B:THR:HG22	9	0.21
(2,2366)	1:290:A:VAL:H	2:656:B:THR:HG23	9	0.21
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB1	3	0.21
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB2	3	0.21
(2,2294)	1:287:A:LYS:H	2:662:B:ALA:HB3	3	0.21
(2,2167)	1:258:A:THR:HG21	1:295:A:ASP:H	2	0.21
(2,2167)	1:258:A:THR:HG22	1:295:A:ASP:H	2	0.21
(2,2167)	1:258:A:THR:HG23	1:295:A:ASP:H	2	0.21
(2,2167)	1:258:A:THR:HG21	1:295:A:ASP:H	3	0.21
(2,2167)	1:258:A:THR:HG22	1:295:A:ASP:H	3	0.21
(2,2167)	1:258:A:THR:HG23	1:295:A:ASP:H	3	0.21
(2,2167)	1:258:A:THR:HG21	1:295:A:ASP:H	6	0.21
(2,2167)	1:258:A:THR:HG22	1:295:A:ASP:H	6	0.21
(2,2167)	1:258:A:THR:HG23	1:295:A:ASP:H	6	0.21
(2,2167)	1:258:A:THR:HG21	1:295:A:ASP:H	9	0.21
(2,2167)	1:258:A:THR:HG22	1:295:A:ASP:H	9	0.21
(2,2167)	1:258:A:THR:HG23	1:295:A:ASP:H	9	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2148)	1:256:A:LEU:HD11	2:666:B:LEU:H	10	0.21
(2,2148)	1:256:A:LEU:HD12	2:666:B:LEU:H	10	0.21
(2,2148)	1:256:A:LEU:HD13	2:666:B:LEU:H	10	0.21
(2,2116)	1:251:A:TYR:HD1	1:268:A:TRP:HH2	11	0.21
(2,2116)	1:251:A:TYR:HD2	1:268:A:TRP:HH2	11	0.21
(2,2025)	1:231:A:VAL:HG21	2:668:B:LYS:HB3	12	0.21
(2,2025)	1:231:A:VAL:HG22	2:668:B:LYS:HB3	12	0.21
(2,2025)	1:231:A:VAL:HG23	2:668:B:LYS:HB3	12	0.21
(2,2011)	1:231:A:VAL:HG11	2:664:B:ALA:H	4	0.21
(2,2011)	1:231:A:VAL:HG12	2:664:B:ALA:H	4	0.21
(2,2011)	1:231:A:VAL:HG13	2:664:B:ALA:H	4	0.21
(2,2011)	1:231:A:VAL:HG11	2:664:B:ALA:H	7	0.21
(2,2011)	1:231:A:VAL:HG12	2:664:B:ALA:H	7	0.21
(2,2011)	1:231:A:VAL:HG13	2:664:B:ALA:H	7	0.21
(2,1987)	1:230:A:ALA:HA	1:250:A:HIS:HD2	8	0.21
(2,1983)	1:230:A:ALA:H	1:241:A:LEU:HD21	3	0.21
(2,1983)	1:230:A:ALA:H	1:241:A:LEU:HD22	3	0.21
(2,1983)	1:230:A:ALA:H	1:241:A:LEU:HD23	3	0.21
(2,1800)	1:322:A:VAL:HG11	1:320:A:CYS:HA	2	0.21
(2,1800)	1:322:A:VAL:HG12	1:320:A:CYS:HA	2	0.21
(2,1800)	1:322:A:VAL:HG13	1:320:A:CYS:HA	2	0.21
(2,1708)	1:300:A:THR:HG21	1:303:A:LEU:HG	7	0.21
(2,1708)	1:300:A:THR:HG22	1:303:A:LEU:HG	7	0.21
(2,1708)	1:300:A:THR:HG23	1:303:A:LEU:HG	7	0.21
(2,1641)	1:276:A:CYS:H	1:274:A:LYS:HB2	5	0.21
(2,1563)	1:239:A:CYS:H	1:241:A:LEU:H	14	0.21
(2,1551)	1:234:A:GLY:H	1:232:A:CYS:H	8	0.21
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD11	7	0.21
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD12	7	0.21
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD13	7	0.21
(2,1231)	1:294:A:CYS:H	1:293:A:THR:HA	11	0.21
(2,1086)	1:257:A:ASP:H	1:256:A:LEU:HG	13	0.21
(2,1053)	1:249:A:HIS:HA	1:250:A:HIS:HD2	9	0.21
(2,899)	2:668:B:LYS:HG3	2:668:B:LYS:HE2	15	0.21
(2,170)	1:234:A:GLY:H	1:234:A:GLY:HA3	12	0.21
(2,52)	1:303:A:LEU:HG	1:307:A:MET:HE2	3	0.21
(1,36)	2:664:B:ALA:H	2:660:B:ILE:O	1	0.21
(1,23)	2:658:B:ALA:N	2:654:B:ALA:O	6	0.21
(1,23)	2:658:B:ALA:N	2:654:B:ALA:O	15	0.21
(1,18)	1:291:A:CYS:H	1:296:A:LYS:O	8	0.21
(1,18)	1:291:A:CYS:H	1:296:A:LYS:O	9	0.21
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG11	7	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG12	7	0.2
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG13	7	0.2
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG11	10	0.2
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG12	10	0.2
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG13	10	0.2
(2,2530)	2:658:B:ALA:H	1:285:A:ASP:HA	2	0.2
(2,2530)	2:658:B:ALA:H	1:285:A:ASP:HA	12	0.2
(2,2530)	2:658:B:ALA:H	1:285:A:ASP:HA	14	0.2
(2,2528)	2:658:B:ALA:H	1:285:A:ASP:H	11	0.2
(2,2528)	2:658:B:ALA:H	1:285:A:ASP:H	14	0.2
(2,2528)	2:658:B:ALA:H	1:285:A:ASP:H	15	0.2
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB1	1	0.2
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB2	1	0.2
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB3	1	0.2
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB1	3	0.2
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB2	3	0.2
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB3	3	0.2
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB1	13	0.2
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB2	13	0.2
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB3	13	0.2
(2,2520)	2:656:B:THR:HG21	2:662:B:ALA:H	14	0.2
(2,2520)	2:656:B:THR:HG22	2:662:B:ALA:H	14	0.2
(2,2520)	2:656:B:THR:HG23	2:662:B:ALA:H	14	0.2
(2,2498)	1:315:A:TRP:HB2	2:654:B:ALA:HB1	4	0.2
(2,2498)	1:315:A:TRP:HB2	2:654:B:ALA:HB2	4	0.2
(2,2498)	1:315:A:TRP:HB2	2:654:B:ALA:HB3	4	0.2
(2,2445)	1:301:A:PHE:H	1:306:A:PRO:HB2	5	0.2
(2,2445)	1:301:A:PHE:H	1:306:A:PRO:HB2	7	0.2
(2,2411)	1:298:A:TYR:H	2:657:B:LEU:HD11	4	0.2
(2,2411)	1:298:A:TYR:H	2:657:B:LEU:HD12	4	0.2
(2,2411)	1:298:A:TYR:H	2:657:B:LEU:HD13	4	0.2
(2,2373)	1:292:A:GLU:HG2	1:314:A:SER:HB2	5	0.2
(2,2052)	1:241:A:LEU:HB3	1:250:A:HIS:HB2	14	0.2
(2,2017)	1:231:A:VAL:HG21	2:665:B:GLN:H	11	0.2
(2,2017)	1:231:A:VAL:HG22	2:665:B:GLN:H	11	0.2
(2,2017)	1:231:A:VAL:HG23	2:665:B:GLN:H	11	0.2
(2,2016)	1:231:A:VAL:HG11	2:665:B:GLN:H	6	0.2
(2,2016)	1:231:A:VAL:HG12	2:665:B:GLN:H	6	0.2
(2,2016)	1:231:A:VAL:HG13	2:665:B:GLN:H	6	0.2
(2,2011)	1:231:A:VAL:HG11	2:664:B:ALA:H	13	0.2
(2,2011)	1:231:A:VAL:HG12	2:664:B:ALA:H	13	0.2
(2,2011)	1:231:A:VAL:HG13	2:664:B:ALA:H	13	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1987)	1:230:A:ALA:HA	1:250:A:HIS:HD2	11	0.2
(2,1983)	1:230:A:ALA:H	1:241:A:LEU:HD21	15	0.2
(2,1983)	1:230:A:ALA:H	1:241:A:LEU:HD22	15	0.2
(2,1983)	1:230:A:ALA:H	1:241:A:LEU:HD23	15	0.2
(2,1884)	2:667:B:VAL:H	2:663:B:LYS:H	4	0.2
(2,1884)	2:667:B:VAL:H	2:663:B:LYS:H	6	0.2
(2,1884)	2:667:B:VAL:H	2:663:B:LYS:H	7	0.2
(2,1884)	2:667:B:VAL:H	2:663:B:LYS:H	15	0.2
(2,1784)	1:320:A:CYS:HA	1:322:A:VAL:HB	12	0.2
(2,1708)	1:300:A:THR:HG21	1:303:A:LEU:HG	4	0.2
(2,1708)	1:300:A:THR:HG22	1:303:A:LEU:HG	4	0.2
(2,1708)	1:300:A:THR:HG23	1:303:A:LEU:HG	4	0.2
(2,1708)	1:300:A:THR:HG21	1:303:A:LEU:HG	11	0.2
(2,1708)	1:300:A:THR:HG22	1:303:A:LEU:HG	11	0.2
(2,1708)	1:300:A:THR:HG23	1:303:A:LEU:HG	11	0.2
(2,1708)	1:300:A:THR:HG21	1:303:A:LEU:HG	13	0.2
(2,1708)	1:300:A:THR:HG22	1:303:A:LEU:HG	13	0.2
(2,1708)	1:300:A:THR:HG23	1:303:A:LEU:HG	13	0.2
(2,1700)	1:299:A:HIS:HD2	1:301:A:PHE:HE1	14	0.2
(2,1700)	1:299:A:HIS:HD2	1:301:A:PHE:HE2	14	0.2
(2,1489)	2:666:B:LEU:H	2:665:B:GLN:HA	10	0.2
(2,1489)	2:666:B:LEU:H	2:665:B:GLN:HA	15	0.2
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD11	10	0.2
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD12	10	0.2
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD13	10	0.2
(2,1366)	1:317:A:CYS:H	1:316:A:LYS:HB2	10	0.2
(2,912)	2:670:B:GLN:HB3	2:670:B:GLN:HA	11	0.2
(2,890)	2:668:B:LYS:HD2	2:668:B:LYS:HE2	3	0.2
(2,890)	2:668:B:LYS:HD2	2:668:B:LYS:HE2	5	0.2
(2,890)	2:668:B:LYS:HD2	2:668:B:LYS:HE2	11	0.2
(2,694)	1:316:A:LYS:HD2	1:316:A:LYS:HB3	10	0.2
(2,644)	1:309:A:GLU:HB2	1:309:A:GLU:HG2	1	0.2
(2,644)	1:309:A:GLU:HB2	1:309:A:GLU:HG2	7	0.2
(2,644)	1:309:A:GLU:HB2	1:309:A:GLU:HG2	8	0.2
(2,644)	1:309:A:GLU:HB2	1:309:A:GLU:HG2	9	0.2
(2,644)	1:309:A:GLU:HB2	1:309:A:GLU:HG2	10	0.2
(2,644)	1:309:A:GLU:HB2	1:309:A:GLU:HG2	11	0.2
(2,644)	1:309:A:GLU:HB2	1:309:A:GLU:HG2	12	0.2
(2,644)	1:309:A:GLU:HB2	1:309:A:GLU:HG2	13	0.2
(2,644)	1:309:A:GLU:HB2	1:309:A:GLU:HG2	14	0.2
(2,644)	1:309:A:GLU:HB2	1:309:A:GLU:HG2	15	0.2
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE1	6	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE2	6	0.2
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE3	6	0.2
(2,582)	1:304:A:LYS:HE2	1:304:A:LYS:HD2	1	0.2
(2,582)	1:304:A:LYS:HE2	1:304:A:LYS:HD2	2	0.2
(2,582)	1:304:A:LYS:HE2	1:304:A:LYS:HD2	3	0.2
(2,582)	1:304:A:LYS:HE2	1:304:A:LYS:HD2	5	0.2
(2,582)	1:304:A:LYS:HE2	1:304:A:LYS:HD2	12	0.2
(2,582)	1:304:A:LYS:HE2	1:304:A:LYS:HD2	14	0.2
(2,292)	1:256:A:LEU:H	1:256:A:LEU:HG	3	0.2
(2,184)	1:237:A:GLU:HG2	1:237:A:GLU:HB3	11	0.2
(2,74)	1:311:A:PRO:HB2	2:654:B:ALA:H	7	0.2
(2,15)	1:243:A:PHE:HB2	1:250:A:HIS:HD2	3	0.2
(2,5)	1:231:A:VAL:HG23	1:230:A:ALA:HB3	7	0.2
(1,32)	2:662:B:ALA:H	2:658:B:ALA:O	4	0.2
(1,23)	2:658:B:ALA:N	2:654:B:ALA:O	9	0.2
(1,18)	1:291:A:CYS:H	1:296:A:LYS:O	6	0.2
(1,8)	1:250:A:HIS:H	1:227:A:ALA:O	9	0.2
(1,8)	1:250:A:HIS:H	1:227:A:ALA:O	12	0.2
(1,2)	1:242:A:PHE:H	1:251:A:TYR:O	10	0.2
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG11	1	0.19
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG12	1	0.19
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG13	1	0.19
(2,2530)	2:658:B:ALA:H	1:285:A:ASP:HA	1	0.19
(2,2530)	2:658:B:ALA:H	1:285:A:ASP:HA	5	0.19
(2,2530)	2:658:B:ALA:H	1:285:A:ASP:HA	8	0.19
(2,2530)	2:658:B:ALA:H	1:285:A:ASP:HA	11	0.19
(2,2530)	2:658:B:ALA:H	1:285:A:ASP:HA	13	0.19
(2,2528)	2:658:B:ALA:H	1:285:A:ASP:H	6	0.19
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB1	5	0.19
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB2	5	0.19
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB3	5	0.19
(2,2485)	1:314:A:SER:HB2	1:292:A:GLU:HB3	9	0.19
(2,2445)	1:301:A:PHE:H	1:306:A:PRO:HB2	3	0.19
(2,2445)	1:301:A:PHE:H	1:306:A:PRO:HB2	9	0.19
(2,2445)	1:301:A:PHE:H	1:306:A:PRO:HB2	11	0.19
(2,2445)	1:301:A:PHE:H	1:306:A:PRO:HB2	13	0.19
(2,2411)	1:298:A:TYR:H	2:657:B:LEU:HD11	13	0.19
(2,2411)	1:298:A:TYR:H	2:657:B:LEU:HD12	13	0.19
(2,2411)	1:298:A:TYR:H	2:657:B:LEU:HD13	13	0.19
(2,2386)	1:293:A:THR:HG21	1:320:A:CYS:HB2	5	0.19
(2,2386)	1:293:A:THR:HG22	1:320:A:CYS:HB2	5	0.19
(2,2386)	1:293:A:THR:HG23	1:320:A:CYS:HB2	5	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2373)	1:292:A:GLU:HG2	1:314:A:SER:HB2	3	0.19
(2,2362)	1:290:A:VAL:HG11	1:268:A:TRP:HZ2	1	0.19
(2,2362)	1:290:A:VAL:HG12	1:268:A:TRP:HZ2	1	0.19
(2,2362)	1:290:A:VAL:HG13	1:268:A:TRP:HZ2	1	0.19
(2,2197)	1:268:A:TRP:HD1	1:295:A:ASP:HB3	9	0.19
(2,2011)	1:231:A:VAL:HG11	2:664:B:ALA:H	8	0.19
(2,2011)	1:231:A:VAL:HG12	2:664:B:ALA:H	8	0.19
(2,2011)	1:231:A:VAL:HG13	2:664:B:ALA:H	8	0.19
(2,2011)	1:231:A:VAL:HG11	2:664:B:ALA:H	10	0.19
(2,2011)	1:231:A:VAL:HG12	2:664:B:ALA:H	10	0.19
(2,2011)	1:231:A:VAL:HG13	2:664:B:ALA:H	10	0.19
(2,1884)	2:667:B:VAL:H	2:663:B:LYS:H	1	0.19
(2,1884)	2:667:B:VAL:H	2:663:B:LYS:H	9	0.19
(2,1884)	2:667:B:VAL:H	2:663:B:LYS:H	13	0.19
(2,1720)	1:302:A:CYS:H	1:306:A:PRO:HB2	6	0.19
(2,1700)	1:299:A:HIS:HD2	1:301:A:PHE:HE1	11	0.19
(2,1700)	1:299:A:HIS:HD2	1:301:A:PHE:HE2	11	0.19
(2,1687)	1:293:A:THR:H	1:295:A:ASP:H	15	0.19
(2,1563)	1:239:A:CYS:H	1:241:A:LEU:H	11	0.19
(2,1551)	1:234:A:GLY:H	1:232:A:CYS:H	3	0.19
(2,1540)	1:229:A:CYS:HA	1:233:A:GLU:H	9	0.19
(2,1500)	2:667:B:VAL:H	2:666:B:LEU:HD21	9	0.19
(2,1500)	2:667:B:VAL:H	2:666:B:LEU:HD22	9	0.19
(2,1500)	2:667:B:VAL:H	2:666:B:LEU:HD23	9	0.19
(2,1409)	2:653:B:GLY:HA3	2:654:B:ALA:H	10	0.19
(2,912)	2:670:B:GLN:HB3	2:670:B:GLN:HA	1	0.19
(2,912)	2:670:B:GLN:HB3	2:670:B:GLN:HA	9	0.19
(2,912)	2:670:B:GLN:HB3	2:670:B:GLN:HA	10	0.19
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE1	9	0.19
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE2	9	0.19
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE3	9	0.19
(2,526)	1:297:A:GLY:H	1:297:A:GLY:HA3	12	0.19
(2,292)	1:256:A:LEU:H	1:256:A:LEU:HG	11	0.19
(2,101)	2:669:B:ALA:HB3	2:666:B:LEU:HD22	2	0.19
(2,101)	2:669:B:ALA:HB2	2:666:B:LEU:HD23	6	0.19
(2,101)	2:669:B:ALA:HB1	2:666:B:LEU:HD23	9	0.19
(2,101)	2:669:B:ALA:HB3	2:666:B:LEU:HD21	11	0.19
(2,91)	2:662:B:ALA:HB2	2:665:B:GLN:HB2	13	0.19
(2,90)	2:665:B:GLN:H	2:666:B:LEU:HG	4	0.19
(2,51)	1:303:A:LEU:HD11	1:311:A:PRO:HG2	15	0.19
(2,42)	1:292:A:GLU:H	1:316:A:LYS:HD2	10	0.19
(2,39)	2:662:B:ALA:HB3	2:660:B:ILE:H	5	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,39)	2:662:B:ALA:HB3	2:660:B:ILE:H	8	0.19
(1,36)	2:664:B:ALA:H	2:660:B:ILE:O	4	0.19
(1,17)	1:291:A:CYS:N	1:296:A:LYS:O	14	0.19
(1,7)	1:250:A:HIS:N	1:227:A:ALA:O	9	0.19
(1,2)	1:242:A:PHE:H	1:251:A:TYR:O	2	0.19
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG11	12	0.18
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG12	12	0.18
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG13	12	0.18
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG11	13	0.18
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG12	13	0.18
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG13	13	0.18
(2,2473)	1:310:A:LEU:HD11	2:654:B:ALA:HB1	14	0.18
(2,2473)	1:310:A:LEU:HD11	2:654:B:ALA:HB2	14	0.18
(2,2473)	1:310:A:LEU:HD11	2:654:B:ALA:HB3	14	0.18
(2,2473)	1:310:A:LEU:HD12	2:654:B:ALA:HB1	14	0.18
(2,2473)	1:310:A:LEU:HD12	2:654:B:ALA:HB2	14	0.18
(2,2473)	1:310:A:LEU:HD12	2:654:B:ALA:HB3	14	0.18
(2,2473)	1:310:A:LEU:HD13	2:654:B:ALA:HB1	14	0.18
(2,2473)	1:310:A:LEU:HD13	2:654:B:ALA:HB2	14	0.18
(2,2473)	1:310:A:LEU:HD13	2:654:B:ALA:HB3	14	0.18
(2,2450)	1:303:A:LEU:HG	1:315:A:TRP:HE1	9	0.18
(2,2445)	1:301:A:PHE:H	1:306:A:PRO:HB2	1	0.18
(2,2445)	1:301:A:PHE:H	1:306:A:PRO:HB2	4	0.18
(2,2445)	1:301:A:PHE:H	1:306:A:PRO:HB2	12	0.18
(2,2411)	1:298:A:TYR:H	2:657:B:LEU:HD11	1	0.18
(2,2411)	1:298:A:TYR:H	2:657:B:LEU:HD12	1	0.18
(2,2411)	1:298:A:TYR:H	2:657:B:LEU:HD13	1	0.18
(2,2335)	1:289:A:LEU:HD11	1:303:A:LEU:HG	15	0.18
(2,2335)	1:289:A:LEU:HD12	1:303:A:LEU:HG	15	0.18
(2,2335)	1:289:A:LEU:HD13	1:303:A:LEU:HG	15	0.18
(2,2277)	1:285:A:ASP:HB3	2:658:B:ALA:HB1	4	0.18
(2,2277)	1:285:A:ASP:HB3	2:658:B:ALA:HB2	4	0.18
(2,2277)	1:285:A:ASP:HB3	2:658:B:ALA:HB3	4	0.18
(2,2277)	1:285:A:ASP:HB3	2:658:B:ALA:HB1	6	0.18
(2,2277)	1:285:A:ASP:HB3	2:658:B:ALA:HB2	6	0.18
(2,2277)	1:285:A:ASP:HB3	2:658:B:ALA:HB3	6	0.18
(2,2277)	1:285:A:ASP:HB3	2:658:B:ALA:HB1	8	0.18
(2,2277)	1:285:A:ASP:HB3	2:658:B:ALA:HB2	8	0.18
(2,2277)	1:285:A:ASP:HB3	2:658:B:ALA:HB3	8	0.18
(2,2277)	1:285:A:ASP:HB3	2:658:B:ALA:HB1	12	0.18
(2,2277)	1:285:A:ASP:HB3	2:658:B:ALA:HB2	12	0.18
(2,2277)	1:285:A:ASP:HB3	2:658:B:ALA:HB3	12	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2197)	1:268:A:TRP:HD1	1:295:A:ASP:HB3	3	0.18
(2,2148)	1:256:A:LEU:HD11	2:666:B:LEU:H	3	0.18
(2,2148)	1:256:A:LEU:HD12	2:666:B:LEU:H	3	0.18
(2,2148)	1:256:A:LEU:HD13	2:666:B:LEU:H	3	0.18
(2,2138)	1:256:A:LEU:HD21	1:251:A:TYR:HB2	13	0.18
(2,2138)	1:256:A:LEU:HD22	1:251:A:TYR:HB2	13	0.18
(2,2138)	1:256:A:LEU:HD23	1:251:A:TYR:HB2	13	0.18
(2,2116)	1:251:A:TYR:HD1	1:268:A:TRP:HH2	14	0.18
(2,2116)	1:251:A:TYR:HD2	1:268:A:TRP:HH2	14	0.18
(2,2108)	1:251:A:TYR:HD1	1:242:A:PHE:HB2	8	0.18
(2,2108)	1:251:A:TYR:HD2	1:242:A:PHE:HB2	8	0.18
(2,2009)	1:231:A:VAL:HG21	1:256:A:LEU:HG	10	0.18
(2,2009)	1:231:A:VAL:HG22	1:256:A:LEU:HG	10	0.18
(2,2009)	1:231:A:VAL:HG23	1:256:A:LEU:HG	10	0.18
(2,1987)	1:230:A:ALA:HA	1:250:A:HIS:HD2	2	0.18
(2,1987)	1:230:A:ALA:HA	1:250:A:HIS:HD2	3	0.18
(2,1987)	1:230:A:ALA:HA	1:250:A:HIS:HD2	5	0.18
(2,1987)	1:230:A:ALA:HA	1:250:A:HIS:HD2	7	0.18
(2,1983)	1:230:A:ALA:H	1:241:A:LEU:HD21	6	0.18
(2,1983)	1:230:A:ALA:H	1:241:A:LEU:HD22	6	0.18
(2,1983)	1:230:A:ALA:H	1:241:A:LEU:HD23	6	0.18
(2,1884)	2:667:B:VAL:H	2:663:B:LYS:H	2	0.18
(2,1884)	2:667:B:VAL:H	2:663:B:LYS:H	14	0.18
(2,1711)	1:301:A:PHE:H	1:298:A:TYR:HD1	4	0.18
(2,1711)	1:301:A:PHE:H	1:298:A:TYR:HD2	4	0.18
(2,1708)	1:300:A:THR:HG21	1:303:A:LEU:HG	3	0.18
(2,1708)	1:300:A:THR:HG22	1:303:A:LEU:HG	3	0.18
(2,1708)	1:300:A:THR:HG23	1:303:A:LEU:HG	3	0.18
(2,1708)	1:300:A:THR:HG21	1:303:A:LEU:HG	5	0.18
(2,1708)	1:300:A:THR:HG22	1:303:A:LEU:HG	5	0.18
(2,1708)	1:300:A:THR:HG23	1:303:A:LEU:HG	5	0.18
(2,1687)	1:293:A:THR:H	1:295:A:ASP:H	1	0.18
(2,1594)	1:255:A:CYS:HB2	1:252:A:HIS:HB2	13	0.18
(2,1548)	1:233:A:GLU:H	1:231:A:VAL:HB	9	0.18
(2,1500)	2:667:B:VAL:H	2:666:B:LEU:HD21	6	0.18
(2,1500)	2:667:B:VAL:H	2:666:B:LEU:HD22	6	0.18
(2,1500)	2:667:B:VAL:H	2:666:B:LEU:HD23	6	0.18
(2,1500)	2:667:B:VAL:H	2:666:B:LEU:HD21	15	0.18
(2,1500)	2:667:B:VAL:H	2:666:B:LEU:HD22	15	0.18
(2,1500)	2:667:B:VAL:H	2:666:B:LEU:HD23	15	0.18
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD11	5	0.18
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD12	5	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD13	5	0.18
(2,1187)	1:279:A:CYS:H	1:280:A:ARG:HG2	12	0.18
(2,890)	2:668:B:LYS:HD2	2:668:B:LYS:HE2	14	0.18
(2,879)	2:668:B:LYS:H	2:668:B:LYS:HB3	2	0.18
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE1	2	0.18
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE2	2	0.18
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE3	2	0.18
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE1	3	0.18
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE2	3	0.18
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE3	3	0.18
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE1	5	0.18
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE2	5	0.18
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE3	5	0.18
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE1	8	0.18
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE2	8	0.18
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE3	8	0.18
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE1	10	0.18
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE2	10	0.18
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE3	10	0.18
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE1	14	0.18
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE2	14	0.18
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE3	14	0.18
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE1	15	0.18
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE2	15	0.18
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE3	15	0.18
(2,582)	1:304:A:LYS:HE2	1:304:A:LYS:HD2	6	0.18
(2,383)	1:272:A:GLU:H	1:272:A:GLU:HB2	2	0.18
(2,124)	1:228:A:ARG:H	1:228:A:ARG:HD2	10	0.18
(2,90)	2:665:B:GLN:H	2:666:B:LEU:HG	7	0.18
(2,69)	1:319:A:ALA:H	1:321:A:ARG:HD2	2	0.18
(2,39)	2:662:B:ALA:HB1	2:660:B:ILE:H	1	0.18
(2,16)	1:249:A:HIS:HA	1:251:A:TYR:HE2	8	0.18
(2,10)	1:233:A:GLU:H	1:231:A:VAL:HG23	5	0.18
(2,1)	1:231:A:VAL:HG13	1:233:A:GLU:H	12	0.18
(1,32)	2:662:B:ALA:H	2:658:B:ALA:O	14	0.18
(1,22)	1:322:A:VAL:H	1:318:A:LYS:O	6	0.18
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG11	4	0.17
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG12	4	0.17
(2,2536)	2:662:B:ALA:H	2:667:B:VAL:HG13	4	0.17
(2,2535)	2:660:B:ILE:HG21	1:256:A:LEU:HG	3	0.17
(2,2535)	2:660:B:ILE:HG22	1:256:A:LEU:HG	3	0.17
(2,2535)	2:660:B:ILE:HG23	1:256:A:LEU:HG	3	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2530)	2:658:B:ALA:H	1:285:A:ASP:HA	10	0.17
(2,2528)	2:658:B:ALA:H	1:285:A:ASP:H	2	0.17
(2,2528)	2:658:B:ALA:H	1:285:A:ASP:H	3	0.17
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB1	12	0.17
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB2	12	0.17
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB3	12	0.17
(2,2510)	1:321:A:ARG:H	1:316:A:LYS:HB3	2	0.17
(2,2510)	1:321:A:ARG:H	1:316:A:LYS:HB3	14	0.17
(2,2473)	1:310:A:LEU:HD11	2:654:B:ALA:HB1	12	0.17
(2,2473)	1:310:A:LEU:HD11	2:654:B:ALA:HB2	12	0.17
(2,2473)	1:310:A:LEU:HD11	2:654:B:ALA:HB3	12	0.17
(2,2473)	1:310:A:LEU:HD12	2:654:B:ALA:HB1	12	0.17
(2,2473)	1:310:A:LEU:HD12	2:654:B:ALA:HB2	12	0.17
(2,2473)	1:310:A:LEU:HD12	2:654:B:ALA:HB3	12	0.17
(2,2473)	1:310:A:LEU:HD13	2:654:B:ALA:HB1	12	0.17
(2,2473)	1:310:A:LEU:HD13	2:654:B:ALA:HB2	12	0.17
(2,2473)	1:310:A:LEU:HD13	2:654:B:ALA:HB3	12	0.17
(2,2445)	1:301:A:PHE:H	1:306:A:PRO:HB2	14	0.17
(2,2373)	1:292:A:GLU:HG2	1:314:A:SER:HB2	6	0.17
(2,2366)	1:290:A:VAL:H	2:656:B:THR:HG21	14	0.17
(2,2366)	1:290:A:VAL:H	2:656:B:THR:HG22	14	0.17
(2,2366)	1:290:A:VAL:H	2:656:B:THR:HG23	14	0.17
(2,2316)	1:288:A:MET:H	2:656:B:THR:HG21	2	0.17
(2,2316)	1:288:A:MET:H	2:656:B:THR:HG22	2	0.17
(2,2316)	1:288:A:MET:H	2:656:B:THR:HG23	2	0.17
(2,2296)	1:288:A:MET:HE1	1:274:A:LYS:HG2	11	0.17
(2,2296)	1:288:A:MET:HE2	1:274:A:LYS:HG2	11	0.17
(2,2296)	1:288:A:MET:HE3	1:274:A:LYS:HG2	11	0.17
(2,2277)	1:285:A:ASP:HB3	2:658:B:ALA:HB1	5	0.17
(2,2277)	1:285:A:ASP:HB3	2:658:B:ALA:HB2	5	0.17
(2,2277)	1:285:A:ASP:HB3	2:658:B:ALA:HB3	5	0.17
(2,2203)	1:272:A:GLU:H	2:668:B:LYS:HD2	2	0.17
(2,2203)	1:272:A:GLU:H	2:668:B:LYS:HD2	6	0.17
(2,2148)	1:256:A:LEU:HD11	2:666:B:LEU:H	1	0.17
(2,2148)	1:256:A:LEU:HD12	2:666:B:LEU:H	1	0.17
(2,2148)	1:256:A:LEU:HD13	2:666:B:LEU:H	1	0.17
(2,2148)	1:256:A:LEU:HD11	2:666:B:LEU:H	7	0.17
(2,2148)	1:256:A:LEU:HD12	2:666:B:LEU:H	7	0.17
(2,2148)	1:256:A:LEU:HD13	2:666:B:LEU:H	7	0.17
(2,2130)	1:255:A:CYS:H	1:231:A:VAL:HG21	4	0.17
(2,2130)	1:255:A:CYS:H	1:231:A:VAL:HG22	4	0.17
(2,2130)	1:255:A:CYS:H	1:231:A:VAL:HG23	4	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2072)	1:244:A:CYS:H	1:270:A:CYS:H	8	0.17
(2,2017)	1:231:A:VAL:HG21	2:665:B:GLN:H	3	0.17
(2,2017)	1:231:A:VAL:HG22	2:665:B:GLN:H	3	0.17
(2,2017)	1:231:A:VAL:HG23	2:665:B:GLN:H	3	0.17
(2,2011)	1:231:A:VAL:HG11	2:664:B:ALA:H	12	0.17
(2,2011)	1:231:A:VAL:HG12	2:664:B:ALA:H	12	0.17
(2,2011)	1:231:A:VAL:HG13	2:664:B:ALA:H	12	0.17
(2,1987)	1:230:A:ALA:HA	1:250:A:HIS:HD2	13	0.17
(2,1884)	2:667:B:VAL:H	2:663:B:LYS:H	3	0.17
(2,1800)	1:322:A:VAL:HG11	1:320:A:CYS:HA	11	0.17
(2,1800)	1:322:A:VAL:HG12	1:320:A:CYS:HA	11	0.17
(2,1800)	1:322:A:VAL:HG13	1:320:A:CYS:HA	11	0.17
(2,1720)	1:302:A:CYS:H	1:306:A:PRO:HB2	2	0.17
(2,1708)	1:300:A:THR:HG21	1:303:A:LEU:HG	10	0.17
(2,1708)	1:300:A:THR:HG22	1:303:A:LEU:HG	10	0.17
(2,1708)	1:300:A:THR:HG23	1:303:A:LEU:HG	10	0.17
(2,1700)	1:299:A:HIS:HD2	1:301:A:PHE:HE1	5	0.17
(2,1700)	1:299:A:HIS:HD2	1:301:A:PHE:HE2	5	0.17
(2,1563)	1:239:A:CYS:H	1:241:A:LEU:H	6	0.17
(2,1500)	2:667:B:VAL:H	2:666:B:LEU:HD21	10	0.17
(2,1500)	2:667:B:VAL:H	2:666:B:LEU:HD22	10	0.17
(2,1500)	2:667:B:VAL:H	2:666:B:LEU:HD23	10	0.17
(2,1500)	2:667:B:VAL:H	2:666:B:LEU:HD21	14	0.17
(2,1500)	2:667:B:VAL:H	2:666:B:LEU:HD22	14	0.17
(2,1500)	2:667:B:VAL:H	2:666:B:LEU:HD23	14	0.17
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD11	1	0.17
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD12	1	0.17
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD13	1	0.17
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD11	3	0.17
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD12	3	0.17
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD13	3	0.17
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD11	4	0.17
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD12	4	0.17
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD13	4	0.17
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD11	12	0.17
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD12	12	0.17
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD13	12	0.17
(2,1366)	1:317:A:CYS:H	1:316:A:LYS:HB2	13	0.17
(2,1359)	1:315:A:TRP:HD1	1:316:A:LYS:HA	3	0.17
(2,1283)	1:304:A:LYS:HD2	1:305:A:PRO:HA	2	0.17
(2,1086)	1:257:A:ASP:H	1:256:A:LEU:HG	7	0.17
(2,879)	2:668:B:LYS:H	2:668:B:LYS:HB3	5	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,879)	2:668:B:LYS:H	2:668:B:LYS:HB3	14	0.17
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE1	12	0.17
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE2	12	0.17
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE3	12	0.17
(2,526)	1:297:A:GLY:H	1:297:A:GLY:HA3	13	0.17
(2,394)	1:274:A:LYS:HA	1:274:A:LYS:HG2	5	0.17
(2,383)	1:272:A:GLU:H	1:272:A:GLU:HB2	4	0.17
(2,373)	1:272:A:GLU:H	1:272:A:GLU:HG2	10	0.17
(2,138)	1:228:A:ARG:HD2	1:228:A:ARG:HB2	12	0.17
(2,101)	2:669:B:ALA:HB1	2:666:B:LEU:HD23	14	0.17
(2,52)	1:303:A:LEU:HG	1:307:A:MET:HE2	6	0.17
(2,5)	1:231:A:VAL:HG22	1:230:A:ALA:HB2	2	0.17
(1,36)	2:664:B:ALA:H	2:660:B:ILE:O	11	0.17
(1,23)	2:658:B:ALA:N	2:654:B:ALA:O	14	0.17
(1,22)	1:322:A:VAL:H	1:318:A:LYS:O	3	0.17
(1,18)	1:291:A:CYS:H	1:296:A:LYS:O	10	0.17
(1,2)	1:242:A:PHE:H	1:251:A:TYR:O	1	0.17
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB1	11	0.16
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB2	11	0.16
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB3	11	0.16
(2,2473)	1:310:A:LEU:HD11	2:654:B:ALA:HB1	8	0.16
(2,2473)	1:310:A:LEU:HD11	2:654:B:ALA:HB2	8	0.16
(2,2473)	1:310:A:LEU:HD11	2:654:B:ALA:HB3	8	0.16
(2,2473)	1:310:A:LEU:HD12	2:654:B:ALA:HB1	8	0.16
(2,2473)	1:310:A:LEU:HD12	2:654:B:ALA:HB2	8	0.16
(2,2473)	1:310:A:LEU:HD12	2:654:B:ALA:HB3	8	0.16
(2,2473)	1:310:A:LEU:HD13	2:654:B:ALA:HB1	8	0.16
(2,2473)	1:310:A:LEU:HD13	2:654:B:ALA:HB2	8	0.16
(2,2473)	1:310:A:LEU:HD13	2:654:B:ALA:HB3	8	0.16
(2,2473)	1:310:A:LEU:HD11	2:654:B:ALA:HB1	10	0.16
(2,2473)	1:310:A:LEU:HD11	2:654:B:ALA:HB2	10	0.16
(2,2473)	1:310:A:LEU:HD11	2:654:B:ALA:HB3	10	0.16
(2,2473)	1:310:A:LEU:HD12	2:654:B:ALA:HB1	10	0.16
(2,2473)	1:310:A:LEU:HD12	2:654:B:ALA:HB2	10	0.16
(2,2473)	1:310:A:LEU:HD12	2:654:B:ALA:HB3	10	0.16
(2,2473)	1:310:A:LEU:HD13	2:654:B:ALA:HB1	10	0.16
(2,2473)	1:310:A:LEU:HD13	2:654:B:ALA:HB2	10	0.16
(2,2473)	1:310:A:LEU:HD13	2:654:B:ALA:HB3	10	0.16
(2,2445)	1:301:A:PHE:H	1:306:A:PRO:HB2	8	0.16
(2,2411)	1:298:A:TYR:H	2:657:B:LEU:HD11	6	0.16
(2,2411)	1:298:A:TYR:H	2:657:B:LEU:HD12	6	0.16
(2,2411)	1:298:A:TYR:H	2:657:B:LEU:HD13	6	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2411)	1:298:A:TYR:H	2:657:B:LEU:HD11	10	0.16
(2,2411)	1:298:A:TYR:H	2:657:B:LEU:HD12	10	0.16
(2,2411)	1:298:A:TYR:H	2:657:B:LEU:HD13	10	0.16
(2,2411)	1:298:A:TYR:H	2:657:B:LEU:HD11	12	0.16
(2,2411)	1:298:A:TYR:H	2:657:B:LEU:HD12	12	0.16
(2,2411)	1:298:A:TYR:H	2:657:B:LEU:HD13	12	0.16
(2,2389)	1:295:A:ASP:HB2	1:268:A:TRP:HD1	12	0.16
(2,2385)	1:293:A:THR:HB	1:320:A:CYS:HB3	4	0.16
(2,2373)	1:292:A:GLU:HG2	1:314:A:SER:HB2	2	0.16
(2,2373)	1:292:A:GLU:HG2	1:314:A:SER:HB2	4	0.16
(2,2366)	1:290:A:VAL:H	2:656:B:THR:HG21	4	0.16
(2,2366)	1:290:A:VAL:H	2:656:B:THR:HG22	4	0.16
(2,2366)	1:290:A:VAL:H	2:656:B:THR:HG23	4	0.16
(2,2363)	1:290:A:VAL:HG11	1:298:A:TYR:HB2	1	0.16
(2,2363)	1:290:A:VAL:HG12	1:298:A:TYR:HB2	1	0.16
(2,2363)	1:290:A:VAL:HG13	1:298:A:TYR:HB2	1	0.16
(2,2316)	1:288:A:MET:H	2:656:B:THR:HG21	1	0.16
(2,2316)	1:288:A:MET:H	2:656:B:THR:HG22	1	0.16
(2,2316)	1:288:A:MET:H	2:656:B:THR:HG23	1	0.16
(2,2277)	1:285:A:ASP:HB3	2:658:B:ALA:HB1	1	0.16
(2,2277)	1:285:A:ASP:HB3	2:658:B:ALA:HB2	1	0.16
(2,2277)	1:285:A:ASP:HB3	2:658:B:ALA:HB3	1	0.16
(2,2277)	1:285:A:ASP:HB3	2:658:B:ALA:HB1	14	0.16
(2,2277)	1:285:A:ASP:HB3	2:658:B:ALA:HB2	14	0.16
(2,2277)	1:285:A:ASP:HB3	2:658:B:ALA:HB3	14	0.16
(2,2113)	1:251:A:TYR:HD1	1:256:A:LEU:HG	10	0.16
(2,2113)	1:251:A:TYR:HD2	1:256:A:LEU:HG	10	0.16
(2,2000)	1:231:A:VAL:HB	1:255:A:CYS:HA	9	0.16
(2,1900)	2:668:B:LYS:HB2	2:665:B:GLN:HA	5	0.16
(2,1884)	2:667:B:VAL:H	2:663:B:LYS:H	11	0.16
(2,1884)	2:667:B:VAL:H	2:663:B:LYS:H	12	0.16
(2,1708)	1:300:A:THR:HG21	1:303:A:LEU:HG	6	0.16
(2,1708)	1:300:A:THR:HG22	1:303:A:LEU:HG	6	0.16
(2,1708)	1:300:A:THR:HG23	1:303:A:LEU:HG	6	0.16
(2,1700)	1:299:A:HIS:HD2	1:301:A:PHE:HE1	7	0.16
(2,1700)	1:299:A:HIS:HD2	1:301:A:PHE:HE2	7	0.16
(2,1690)	1:294:A:CYS:H	1:291:A:CYS:HB3	3	0.16
(2,1586)	1:249:A:HIS:H	1:251:A:TYR:HE1	14	0.16
(2,1586)	1:249:A:HIS:H	1:251:A:TYR:HE2	14	0.16
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD11	11	0.16
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD12	11	0.16
(2,1486)	2:665:B:GLN:HG2	2:666:B:LEU:HD13	11	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1366)	1:317:A:CYS:H	1:316:A:LYS:HB2	7	0.16
(2,1191)	1:280:A:ARG:HD2	1:279:A:CYS:H	11	0.16
(2,1059)	1:251:A:TYR:HD1	1:250:A:HIS:HD2	3	0.16
(2,1059)	1:251:A:TYR:HD2	1:250:A:HIS:HD2	3	0.16
(2,1059)	1:251:A:TYR:HD1	1:250:A:HIS:HD2	4	0.16
(2,1059)	1:251:A:TYR:HD2	1:250:A:HIS:HD2	4	0.16
(2,1016)	1:240:A:ASP:H	1:241:A:LEU:HD11	7	0.16
(2,1016)	1:240:A:ASP:H	1:241:A:LEU:HD12	7	0.16
(2,1016)	1:240:A:ASP:H	1:241:A:LEU:HD13	7	0.16
(2,979)	1:232:A:CYS:HB2	1:231:A:VAL:HG21	5	0.16
(2,979)	1:232:A:CYS:HB2	1:231:A:VAL:HG22	5	0.16
(2,979)	1:232:A:CYS:HB2	1:231:A:VAL:HG23	5	0.16
(2,879)	2:668:B:LYS:H	2:668:B:LYS:HB3	8	0.16
(2,751)	1:322:A:VAL:HG21	1:322:A:VAL:HA	3	0.16
(2,751)	1:322:A:VAL:HG22	1:322:A:VAL:HA	3	0.16
(2,751)	1:322:A:VAL:HG23	1:322:A:VAL:HA	3	0.16
(2,751)	1:322:A:VAL:HG21	1:322:A:VAL:HA	6	0.16
(2,751)	1:322:A:VAL:HG22	1:322:A:VAL:HA	6	0.16
(2,751)	1:322:A:VAL:HG23	1:322:A:VAL:HA	6	0.16
(2,751)	1:322:A:VAL:HG21	1:322:A:VAL:HA	9	0.16
(2,751)	1:322:A:VAL:HG22	1:322:A:VAL:HA	9	0.16
(2,751)	1:322:A:VAL:HG23	1:322:A:VAL:HA	9	0.16
(2,751)	1:322:A:VAL:HG21	1:322:A:VAL:HA	10	0.16
(2,751)	1:322:A:VAL:HG22	1:322:A:VAL:HA	10	0.16
(2,751)	1:322:A:VAL:HG23	1:322:A:VAL:HA	10	0.16
(2,751)	1:322:A:VAL:HG21	1:322:A:VAL:HA	13	0.16
(2,751)	1:322:A:VAL:HG22	1:322:A:VAL:HA	13	0.16
(2,751)	1:322:A:VAL:HG23	1:322:A:VAL:HA	13	0.16
(2,751)	1:322:A:VAL:HG21	1:322:A:VAL:HA	14	0.16
(2,751)	1:322:A:VAL:HG22	1:322:A:VAL:HA	14	0.16
(2,751)	1:322:A:VAL:HG23	1:322:A:VAL:HA	14	0.16
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE1	1	0.16
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE2	1	0.16
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE3	1	0.16
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE1	4	0.16
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE2	4	0.16
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE3	4	0.16
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE1	7	0.16
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE2	7	0.16
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE3	7	0.16
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE1	13	0.16
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE2	13	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE3	13	0.16
(2,526)	1:297:A:GLY:H	1:297:A:GLY:HA3	9	0.16
(2,394)	1:274:A:LYS:HA	1:274:A:LYS:HG2	7	0.16
(2,292)	1:256:A:LEU:H	1:256:A:LEU:HG	14	0.16
(2,174)	1:235:A:PRO:HD2	1:235:A:PRO:HB2	9	0.16
(2,151)	1:231:A:VAL:HA	1:231:A:VAL:HB	3	0.16
(2,138)	1:228:A:ARG:HD2	1:228:A:ARG:HB2	5	0.16
(2,39)	2:662:B:ALA:HB3	2:660:B:ILE:H	3	0.16
(2,39)	2:662:B:ALA:HB1	2:660:B:ILE:H	12	0.16
(2,37)	1:275:A:VAL:HG21	1:269:A:GLN:HE21	7	0.16
(2,15)	1:249:A:HIS:HB2	1:250:A:HIS:HD2	14	0.16
(1,36)	2:664:B:ALA:H	2:660:B:ILE:O	5	0.16
(1,32)	2:662:B:ALA:H	2:658:B:ALA:O	6	0.16
(1,23)	2:658:B:ALA:N	2:654:B:ALA:O	4	0.16
(1,22)	1:322:A:VAL:H	1:318:A:LYS:O	10	0.16
(1,18)	1:291:A:CYS:H	1:296:A:LYS:O	13	0.16
(1,8)	1:250:A:HIS:H	1:227:A:ALA:O	8	0.16
(1,7)	1:250:A:HIS:N	1:227:A:ALA:O	6	0.16
(2,2533)	2:658:B:ALA:HA	1:286:A:SER:HA	5	0.15
(2,2531)	2:658:B:ALA:HA	1:285:A:ASP:HB2	10	0.15
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB1	9	0.15
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB2	9	0.15
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB3	9	0.15
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB1	14	0.15
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB2	14	0.15
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB3	14	0.15
(2,2520)	2:656:B:THR:HG21	2:662:B:ALA:H	8	0.15
(2,2520)	2:656:B:THR:HG22	2:662:B:ALA:H	8	0.15
(2,2520)	2:656:B:THR:HG23	2:662:B:ALA:H	8	0.15
(2,2499)	1:315:A:TRP:HB3	2:654:B:ALA:HB1	3	0.15
(2,2499)	1:315:A:TRP:HB3	2:654:B:ALA:HB2	3	0.15
(2,2499)	1:315:A:TRP:HB3	2:654:B:ALA:HB3	3	0.15
(2,2492)	1:315:A:TRP:H	1:292:A:GLU:HG3	7	0.15
(2,2492)	1:315:A:TRP:H	1:292:A:GLU:HG3	8	0.15
(2,2485)	1:314:A:SER:HB2	1:292:A:GLU:HB3	8	0.15
(2,2473)	1:310:A:LEU:HD11	2:654:B:ALA:HB1	6	0.15
(2,2473)	1:310:A:LEU:HD11	2:654:B:ALA:HB2	6	0.15
(2,2473)	1:310:A:LEU:HD11	2:654:B:ALA:HB3	6	0.15
(2,2473)	1:310:A:LEU:HD12	2:654:B:ALA:HB1	6	0.15
(2,2473)	1:310:A:LEU:HD12	2:654:B:ALA:HB2	6	0.15
(2,2473)	1:310:A:LEU:HD12	2:654:B:ALA:HB3	6	0.15
(2,2473)	1:310:A:LEU:HD13	2:654:B:ALA:HB1	6	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2473)	1:310:A:LEU:HD13	2:654:B:ALA:HB2	6	0.15
(2,2473)	1:310:A:LEU:HD13	2:654:B:ALA:HB3	6	0.15
(2,2411)	1:298:A:TYR:H	2:657:B:LEU:HD11	2	0.15
(2,2411)	1:298:A:TYR:H	2:657:B:LEU:HD12	2	0.15
(2,2411)	1:298:A:TYR:H	2:657:B:LEU:HD13	2	0.15
(2,2394)	1:297:A:GLY:HA2	1:290:A:VAL:HG21	14	0.15
(2,2394)	1:297:A:GLY:HA2	1:290:A:VAL:HG22	14	0.15
(2,2394)	1:297:A:GLY:HA2	1:290:A:VAL:HG23	14	0.15
(2,2373)	1:292:A:GLU:HG2	1:314:A:SER:HB2	11	0.15
(2,2316)	1:288:A:MET:H	2:656:B:THR:HG21	5	0.15
(2,2316)	1:288:A:MET:H	2:656:B:THR:HG22	5	0.15
(2,2316)	1:288:A:MET:H	2:656:B:THR:HG23	5	0.15
(2,2316)	1:288:A:MET:H	2:656:B:THR:HG21	12	0.15
(2,2316)	1:288:A:MET:H	2:656:B:THR:HG22	12	0.15
(2,2316)	1:288:A:MET:H	2:656:B:THR:HG23	12	0.15
(2,2316)	1:288:A:MET:H	2:656:B:THR:HG21	14	0.15
(2,2316)	1:288:A:MET:H	2:656:B:THR:HG22	14	0.15
(2,2316)	1:288:A:MET:H	2:656:B:THR:HG23	14	0.15
(2,2301)	1:288:A:MET:HE1	1:282:A:PRO:HB3	9	0.15
(2,2301)	1:288:A:MET:HE2	1:282:A:PRO:HB3	9	0.15
(2,2301)	1:288:A:MET:HE3	1:282:A:PRO:HB3	9	0.15
(2,2277)	1:285:A:ASP:HB3	2:658:B:ALA:HB1	11	0.15
(2,2277)	1:285:A:ASP:HB3	2:658:B:ALA:HB2	11	0.15
(2,2277)	1:285:A:ASP:HB3	2:658:B:ALA:HB3	11	0.15
(2,2277)	1:285:A:ASP:HB3	2:658:B:ALA:HB1	13	0.15
(2,2277)	1:285:A:ASP:HB3	2:658:B:ALA:HB2	13	0.15
(2,2277)	1:285:A:ASP:HB3	2:658:B:ALA:HB3	13	0.15
(2,2251)	1:279:A:CYS:H	1:301:A:PHE:HD1	9	0.15
(2,2251)	1:279:A:CYS:H	1:301:A:PHE:HD2	9	0.15
(2,2203)	1:272:A:GLU:H	2:668:B:LYS:HD2	4	0.15
(2,2203)	1:272:A:GLU:H	2:668:B:LYS:HD2	10	0.15
(2,2148)	1:256:A:LEU:HD11	2:666:B:LEU:H	14	0.15
(2,2148)	1:256:A:LEU:HD12	2:666:B:LEU:H	14	0.15
(2,2148)	1:256:A:LEU:HD13	2:666:B:LEU:H	14	0.15
(2,2108)	1:251:A:TYR:HD1	1:242:A:PHE:HB2	13	0.15
(2,2108)	1:251:A:TYR:HD2	1:242:A:PHE:HB2	13	0.15
(2,2101)	1:251:A:TYR:HD1	1:241:A:LEU:HB2	9	0.15
(2,2101)	1:251:A:TYR:HD2	1:241:A:LEU:HB2	9	0.15
(2,2068)	1:243:A:PHE:HE1	1:249:A:HIS:HE1	6	0.15
(2,2068)	1:243:A:PHE:HE2	1:249:A:HIS:HE1	6	0.15
(2,1884)	2:667:B:VAL:H	2:663:B:LYS:H	8	0.15
(2,1884)	2:667:B:VAL:H	2:663:B:LYS:H	10	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1784)	1:320:A:CYS:HA	1:322:A:VAL:HB	7	0.15
(2,1708)	1:300:A:THR:HG21	1:303:A:LEU:HG	2	0.15
(2,1708)	1:300:A:THR:HG22	1:303:A:LEU:HG	2	0.15
(2,1708)	1:300:A:THR:HG23	1:303:A:LEU:HG	2	0.15
(2,1708)	1:300:A:THR:HG21	1:303:A:LEU:HG	12	0.15
(2,1708)	1:300:A:THR:HG22	1:303:A:LEU:HG	12	0.15
(2,1708)	1:300:A:THR:HG23	1:303:A:LEU:HG	12	0.15
(2,1700)	1:299:A:HIS:HD2	1:301:A:PHE:HE1	12	0.15
(2,1700)	1:299:A:HIS:HD2	1:301:A:PHE:HE2	12	0.15
(2,1687)	1:293:A:THR:H	1:295:A:ASP:H	9	0.15
(2,1687)	1:293:A:THR:H	1:295:A:ASP:H	13	0.15
(2,1630)	1:271:A:PRO:HA	1:274:A:LYS:HB2	7	0.15
(2,1530)	2:670:B:GLN:H	2:669:B:ALA:HA	12	0.15
(2,1500)	2:667:B:VAL:H	2:666:B:LEU:HD21	8	0.15
(2,1500)	2:667:B:VAL:H	2:666:B:LEU:HD22	8	0.15
(2,1500)	2:667:B:VAL:H	2:666:B:LEU:HD23	8	0.15
(2,1492)	2:666:B:LEU:HA	2:665:B:GLN:HG2	2	0.15
(2,1366)	1:317:A:CYS:H	1:316:A:LYS:HB2	11	0.15
(2,1277)	1:304:A:LYS:HB2	1:303:A:LEU:H	9	0.15
(2,1277)	1:304:A:LYS:HB2	1:303:A:LEU:H	14	0.15
(2,1016)	1:240:A:ASP:H	1:241:A:LEU:HD11	3	0.15
(2,1016)	1:240:A:ASP:H	1:241:A:LEU:HD12	3	0.15
(2,1016)	1:240:A:ASP:H	1:241:A:LEU:HD13	3	0.15
(2,976)	1:232:A:CYS:H	1:231:A:VAL:H	12	0.15
(2,941)	1:227:A:ALA:HB1	1:228:A:ARG:HB3	11	0.15
(2,941)	1:227:A:ALA:HB2	1:228:A:ARG:HB3	11	0.15
(2,941)	1:227:A:ALA:HB3	1:228:A:ARG:HB3	11	0.15
(2,890)	2:668:B:LYS:HD2	2:668:B:LYS:HE2	8	0.15
(2,879)	2:668:B:LYS:H	2:668:B:LYS:HB3	3	0.15
(2,879)	2:668:B:LYS:H	2:668:B:LYS:HB3	6	0.15
(2,879)	2:668:B:LYS:H	2:668:B:LYS:HB3	9	0.15
(2,879)	2:668:B:LYS:H	2:668:B:LYS:HB3	11	0.15
(2,751)	1:322:A:VAL:HG21	1:322:A:VAL:HA	5	0.15
(2,751)	1:322:A:VAL:HG22	1:322:A:VAL:HA	5	0.15
(2,751)	1:322:A:VAL:HG23	1:322:A:VAL:HA	5	0.15
(2,751)	1:322:A:VAL:HG21	1:322:A:VAL:HA	7	0.15
(2,751)	1:322:A:VAL:HG22	1:322:A:VAL:HA	7	0.15
(2,751)	1:322:A:VAL:HG23	1:322:A:VAL:HA	7	0.15
(2,751)	1:322:A:VAL:HG21	1:322:A:VAL:HA	8	0.15
(2,751)	1:322:A:VAL:HG22	1:322:A:VAL:HA	8	0.15
(2,751)	1:322:A:VAL:HG23	1:322:A:VAL:HA	8	0.15
(2,751)	1:322:A:VAL:HG21	1:322:A:VAL:HA	15	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,751)	1:322:A:VAL:HG22	1:322:A:VAL:HA	15	0.15
(2,751)	1:322:A:VAL:HG23	1:322:A:VAL:HA	15	0.15
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE1	11	0.15
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE2	11	0.15
(2,614)	1:307:A:MET:HG2	1:307:A:MET:HE3	11	0.15
(2,526)	1:297:A:GLY:H	1:297:A:GLY:HA3	10	0.15
(2,383)	1:272:A:GLU:H	1:272:A:GLU:HB2	8	0.15
(2,292)	1:256:A:LEU:H	1:256:A:LEU:HG	5	0.15
(2,292)	1:256:A:LEU:H	1:256:A:LEU:HG	15	0.15
(2,174)	1:235:A:PRO:HD2	1:235:A:PRO:HB2	3	0.15
(2,174)	1:235:A:PRO:HD2	1:235:A:PRO:HB2	7	0.15
(2,174)	1:235:A:PRO:HD2	1:235:A:PRO:HB2	12	0.15
(2,151)	1:231:A:VAL:HA	1:231:A:VAL:HB	9	0.15
(2,101)	2:669:B:ALA:HB1	2:666:B:LEU:HD21	15	0.15
(2,74)	2:654:B:ALA:H	1:311:A:PRO:HG2	6	0.15
(2,15)	1:243:A:PHE:HB2	1:250:A:HIS:HD2	7	0.15
(2,1)	1:231:A:VAL:HG13	1:233:A:GLU:H	5	0.15
(1,32)	2:662:B:ALA:H	2:658:B:ALA:O	2	0.15
(1,32)	2:662:B:ALA:H	2:658:B:ALA:O	9	0.15
(1,23)	2:658:B:ALA:N	2:654:B:ALA:O	2	0.15
(1,23)	2:658:B:ALA:N	2:654:B:ALA:O	5	0.15
(1,22)	1:322:A:VAL:H	1:318:A:LYS:O	8	0.15
(1,8)	1:250:A:HIS:H	1:227:A:ALA:O	2	0.15
(1,8)	1:250:A:HIS:H	1:227:A:ALA:O	4	0.15
(1,8)	1:250:A:HIS:H	1:227:A:ALA:O	7	0.15
(1,8)	1:250:A:HIS:H	1:227:A:ALA:O	14	0.15
(1,7)	1:250:A:HIS:N	1:227:A:ALA:O	12	0.15
(1,6)	1:244:A:CYS:H	1:249:A:HIS:O	9	0.15
(1,2)	1:242:A:PHE:H	1:251:A:TYR:O	4	0.15
(1,2)	1:242:A:PHE:H	1:251:A:TYR:O	7	0.15
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB1	15	0.14
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB2	15	0.14
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB3	15	0.14
(2,2473)	1:310:A:LEU:HD11	2:654:B:ALA:HB1	2	0.14
(2,2473)	1:310:A:LEU:HD11	2:654:B:ALA:HB2	2	0.14
(2,2473)	1:310:A:LEU:HD11	2:654:B:ALA:HB3	2	0.14
(2,2473)	1:310:A:LEU:HD12	2:654:B:ALA:HB1	2	0.14
(2,2473)	1:310:A:LEU:HD12	2:654:B:ALA:HB2	2	0.14
(2,2473)	1:310:A:LEU:HD12	2:654:B:ALA:HB3	2	0.14
(2,2473)	1:310:A:LEU:HD13	2:654:B:ALA:HB1	2	0.14
(2,2473)	1:310:A:LEU:HD13	2:654:B:ALA:HB2	2	0.14
(2,2473)	1:310:A:LEU:HD13	2:654:B:ALA:HB3	2	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2473)	1:310:A:LEU:HD11	2:654:B:ALA:HB1	3	0.14
(2,2473)	1:310:A:LEU:HD11	2:654:B:ALA:HB2	3	0.14
(2,2473)	1:310:A:LEU:HD11	2:654:B:ALA:HB3	3	0.14
(2,2473)	1:310:A:LEU:HD12	2:654:B:ALA:HB1	3	0.14
(2,2473)	1:310:A:LEU:HD12	2:654:B:ALA:HB2	3	0.14
(2,2473)	1:310:A:LEU:HD12	2:654:B:ALA:HB3	3	0.14
(2,2473)	1:310:A:LEU:HD13	2:654:B:ALA:HB1	3	0.14
(2,2473)	1:310:A:LEU:HD13	2:654:B:ALA:HB2	3	0.14
(2,2473)	1:310:A:LEU:HD13	2:654:B:ALA:HB3	3	0.14
(2,2473)	1:310:A:LEU:HD11	2:654:B:ALA:HB1	11	0.14
(2,2473)	1:310:A:LEU:HD11	2:654:B:ALA:HB2	11	0.14
(2,2473)	1:310:A:LEU:HD11	2:654:B:ALA:HB3	11	0.14
(2,2473)	1:310:A:LEU:HD12	2:654:B:ALA:HB1	11	0.14
(2,2473)	1:310:A:LEU:HD12	2:654:B:ALA:HB2	11	0.14
(2,2473)	1:310:A:LEU:HD12	2:654:B:ALA:HB3	11	0.14
(2,2473)	1:310:A:LEU:HD13	2:654:B:ALA:HB1	11	0.14
(2,2473)	1:310:A:LEU:HD13	2:654:B:ALA:HB2	11	0.14
(2,2473)	1:310:A:LEU:HD13	2:654:B:ALA:HB3	11	0.14
(2,2450)	1:303:A:LEU:HG	1:315:A:TRP:HE1	15	0.14
(2,2411)	1:298:A:TYR:H	2:657:B:LEU:HD11	5	0.14
(2,2411)	1:298:A:TYR:H	2:657:B:LEU:HD12	5	0.14
(2,2411)	1:298:A:TYR:H	2:657:B:LEU:HD13	5	0.14
(2,2411)	1:298:A:TYR:H	2:657:B:LEU:HD11	11	0.14
(2,2411)	1:298:A:TYR:H	2:657:B:LEU:HD12	11	0.14
(2,2411)	1:298:A:TYR:H	2:657:B:LEU:HD13	11	0.14
(2,2411)	1:298:A:TYR:H	2:657:B:LEU:HD11	14	0.14
(2,2411)	1:298:A:TYR:H	2:657:B:LEU:HD12	14	0.14
(2,2411)	1:298:A:TYR:H	2:657:B:LEU:HD13	14	0.14
(2,2379)	1:293:A:THR:H	1:316:A:LYS:HA	2	0.14
(2,2366)	1:290:A:VAL:H	2:656:B:THR:HG21	5	0.14
(2,2366)	1:290:A:VAL:H	2:656:B:THR:HG22	5	0.14
(2,2366)	1:290:A:VAL:H	2:656:B:THR:HG23	5	0.14
(2,2366)	1:290:A:VAL:H	2:656:B:THR:HG21	13	0.14
(2,2366)	1:290:A:VAL:H	2:656:B:THR:HG22	13	0.14
(2,2366)	1:290:A:VAL:H	2:656:B:THR:HG23	13	0.14
(2,2364)	1:290:A:VAL:H	2:654:B:ALA:HB1	9	0.14
(2,2364)	1:290:A:VAL:H	2:654:B:ALA:HB2	9	0.14
(2,2364)	1:290:A:VAL:H	2:654:B:ALA:HB3	9	0.14
(2,2335)	1:289:A:LEU:HD11	1:303:A:LEU:HG	9	0.14
(2,2335)	1:289:A:LEU:HD12	1:303:A:LEU:HG	9	0.14
(2,2335)	1:289:A:LEU:HD13	1:303:A:LEU:HG	9	0.14
(2,2316)	1:288:A:MET:H	2:656:B:THR:HG21	10	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2316)	1:288:A:MET:H	2:656:B:THR:HG22	10	0.14
(2,2316)	1:288:A:MET:H	2:656:B:THR:HG23	10	0.14
(2,2316)	1:288:A:MET:H	2:656:B:THR:HG21	13	0.14
(2,2316)	1:288:A:MET:H	2:656:B:THR:HG22	13	0.14
(2,2316)	1:288:A:MET:H	2:656:B:THR:HG23	13	0.14
(2,2203)	1:272:A:GLU:H	2:668:B:LYS:HD2	9	0.14
(2,2197)	1:268:A:TRP:HD1	1:295:A:ASP:HB3	1	0.14
(2,2141)	1:256:A:LEU:HD11	2:660:B:ILE:HG21	6	0.14
(2,2141)	1:256:A:LEU:HD11	2:660:B:ILE:HG22	6	0.14
(2,2141)	1:256:A:LEU:HD11	2:660:B:ILE:HG23	6	0.14
(2,2141)	1:256:A:LEU:HD12	2:660:B:ILE:HG21	6	0.14
(2,2141)	1:256:A:LEU:HD12	2:660:B:ILE:HG22	6	0.14
(2,2141)	1:256:A:LEU:HD12	2:660:B:ILE:HG23	6	0.14
(2,2141)	1:256:A:LEU:HD13	2:660:B:ILE:HG21	6	0.14
(2,2141)	1:256:A:LEU:HD13	2:660:B:ILE:HG22	6	0.14
(2,2141)	1:256:A:LEU:HD13	2:660:B:ILE:HG23	6	0.14
(2,2138)	1:256:A:LEU:HD21	1:251:A:TYR:HB2	1	0.14
(2,2138)	1:256:A:LEU:HD22	1:251:A:TYR:HB2	1	0.14
(2,2138)	1:256:A:LEU:HD23	1:251:A:TYR:HB2	1	0.14
(2,2130)	1:255:A:CYS:H	1:231:A:VAL:HG21	10	0.14
(2,2130)	1:255:A:CYS:H	1:231:A:VAL:HG22	10	0.14
(2,2130)	1:255:A:CYS:H	1:231:A:VAL:HG23	10	0.14
(2,2130)	1:255:A:CYS:H	1:231:A:VAL:HG21	13	0.14
(2,2130)	1:255:A:CYS:H	1:231:A:VAL:HG22	13	0.14
(2,2130)	1:255:A:CYS:H	1:231:A:VAL:HG23	13	0.14
(2,2073)	1:244:A:CYS:H	1:272:A:GLU:HG2	15	0.14
(2,2017)	1:231:A:VAL:HG21	2:665:B:GLN:H	4	0.14
(2,2017)	1:231:A:VAL:HG22	2:665:B:GLN:H	4	0.14
(2,2017)	1:231:A:VAL:HG23	2:665:B:GLN:H	4	0.14
(2,2016)	1:231:A:VAL:HG11	2:665:B:GLN:H	15	0.14
(2,2016)	1:231:A:VAL:HG12	2:665:B:GLN:H	15	0.14
(2,2016)	1:231:A:VAL:HG13	2:665:B:GLN:H	15	0.14
(2,2001)	1:231:A:VAL:HG21	1:255:A:CYS:HB2	9	0.14
(2,2001)	1:231:A:VAL:HG22	1:255:A:CYS:HB2	9	0.14
(2,2001)	1:231:A:VAL:HG23	1:255:A:CYS:HB2	9	0.14
(2,1995)	1:231:A:VAL:HG11	1:251:A:TYR:HE1	12	0.14
(2,1995)	1:231:A:VAL:HG11	1:251:A:TYR:HE2	12	0.14
(2,1995)	1:231:A:VAL:HG12	1:251:A:TYR:HE1	12	0.14
(2,1995)	1:231:A:VAL:HG12	1:251:A:TYR:HE2	12	0.14
(2,1995)	1:231:A:VAL:HG13	1:251:A:TYR:HE1	12	0.14
(2,1995)	1:231:A:VAL:HG13	1:251:A:TYR:HE2	12	0.14
(2,1983)	1:230:A:ALA:H	1:241:A:LEU:HD21	2	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1983)	1:230:A:ALA:H	1:241:A:LEU:HD22	2	0.14
(2,1983)	1:230:A:ALA:H	1:241:A:LEU:HD23	2	0.14
(2,1900)	2:668:B:LYS:HB2	2:665:B:GLN:HA	14	0.14
(2,1900)	2:668:B:LYS:HB2	2:665:B:GLN:HA	15	0.14
(2,1819)	2:658:B:ALA:HB1	2:656:B:THR:HB	1	0.14
(2,1819)	2:658:B:ALA:HB2	2:656:B:THR:HB	1	0.14
(2,1819)	2:658:B:ALA:HB3	2:656:B:THR:HB	1	0.14
(2,1819)	2:658:B:ALA:HB1	2:656:B:THR:HB	12	0.14
(2,1819)	2:658:B:ALA:HB2	2:656:B:THR:HB	12	0.14
(2,1819)	2:658:B:ALA:HB3	2:656:B:THR:HB	12	0.14
(2,1700)	1:299:A:HIS:HD2	1:301:A:PHE:HE1	10	0.14
(2,1700)	1:299:A:HIS:HD2	1:301:A:PHE:HE2	10	0.14
(2,1687)	1:293:A:THR:H	1:295:A:ASP:H	7	0.14
(2,1586)	1:249:A:HIS:H	1:251:A:TYR:HE1	11	0.14
(2,1586)	1:249:A:HIS:H	1:251:A:TYR:HE2	11	0.14
(2,1530)	2:670:B:GLN:H	2:669:B:ALA:HA	1	0.14
(2,1530)	2:670:B:GLN:H	2:669:B:ALA:HA	3	0.14
(2,1530)	2:670:B:GLN:H	2:669:B:ALA:HA	4	0.14
(2,1530)	2:670:B:GLN:H	2:669:B:ALA:HA	5	0.14
(2,1530)	2:670:B:GLN:H	2:669:B:ALA:HA	6	0.14
(2,1530)	2:670:B:GLN:H	2:669:B:ALA:HA	7	0.14
(2,1530)	2:670:B:GLN:H	2:669:B:ALA:HA	8	0.14
(2,1530)	2:670:B:GLN:H	2:669:B:ALA:HA	9	0.14
(2,1530)	2:670:B:GLN:H	2:669:B:ALA:HA	10	0.14
(2,1530)	2:670:B:GLN:H	2:669:B:ALA:HA	13	0.14
(2,1530)	2:670:B:GLN:H	2:669:B:ALA:HA	15	0.14
(2,1492)	2:666:B:LEU:HA	2:665:B:GLN:HG2	15	0.14
(2,1283)	1:304:A:LYS:HD2	1:305:A:PRO:HA	10	0.14
(2,1283)	1:304:A:LYS:HD2	1:305:A:PRO:HA	12	0.14
(2,1191)	1:280:A:ARG:HD2	1:279:A:CYS:H	15	0.14
(2,1059)	1:251:A:TYR:HD1	1:250:A:HIS:HD2	11	0.14
(2,1059)	1:251:A:TYR:HD2	1:250:A:HIS:HD2	11	0.14
(2,1053)	1:249:A:HIS:HA	1:250:A:HIS:HD2	2	0.14
(2,1016)	1:240:A:ASP:H	1:241:A:LEU:HD11	2	0.14
(2,1016)	1:240:A:ASP:H	1:241:A:LEU:HD12	2	0.14
(2,1016)	1:240:A:ASP:H	1:241:A:LEU:HD13	2	0.14
(2,936)	1:227:A:ALA:H	1:226:A:SER:HB2	7	0.14
(2,899)	2:668:B:LYS:HG3	2:668:B:LYS:HE2	5	0.14
(2,879)	2:668:B:LYS:H	2:668:B:LYS:HB3	4	0.14
(2,879)	2:668:B:LYS:H	2:668:B:LYS:HB3	10	0.14
(2,879)	2:668:B:LYS:H	2:668:B:LYS:HB3	13	0.14
(2,751)	1:322:A:VAL:HG21	1:322:A:VAL:HA	2	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,751)	1:322:A:VAL:HG22	1:322:A:VAL:HA	2	0.14
(2,751)	1:322:A:VAL:HG23	1:322:A:VAL:HA	2	0.14
(2,751)	1:322:A:VAL:HG21	1:322:A:VAL:HA	4	0.14
(2,751)	1:322:A:VAL:HG22	1:322:A:VAL:HA	4	0.14
(2,751)	1:322:A:VAL:HG23	1:322:A:VAL:HA	4	0.14
(2,555)	1:301:A:PHE:HD1	1:301:A:PHE:HA	6	0.14
(2,555)	1:301:A:PHE:HD2	1:301:A:PHE:HA	6	0.14
(2,555)	1:301:A:PHE:HD1	1:301:A:PHE:HA	12	0.14
(2,555)	1:301:A:PHE:HD2	1:301:A:PHE:HA	12	0.14
(2,526)	1:297:A:GLY:H	1:297:A:GLY:HA3	3	0.14
(2,526)	1:297:A:GLY:H	1:297:A:GLY:HA3	14	0.14
(2,383)	1:272:A:GLU:H	1:272:A:GLU:HB2	5	0.14
(2,383)	1:272:A:GLU:H	1:272:A:GLU:HB2	10	0.14
(2,383)	1:272:A:GLU:H	1:272:A:GLU:HB2	11	0.14
(2,383)	1:272:A:GLU:H	1:272:A:GLU:HB2	12	0.14
(2,383)	1:272:A:GLU:H	1:272:A:GLU:HB2	13	0.14
(2,383)	1:272:A:GLU:H	1:272:A:GLU:HB2	15	0.14
(2,292)	1:256:A:LEU:H	1:256:A:LEU:HG	2	0.14
(2,138)	1:228:A:ARG:HD2	1:228:A:ARG:HB2	9	0.14
(2,63)	1:310:A:LEU:HB2	1:307:A:MET:HE3	15	0.14
(1,40)	2:666:B:LEU:H	2:662:B:ALA:O	15	0.14
(1,36)	2:664:B:ALA:H	2:660:B:ILE:O	8	0.14
(1,32)	2:662:B:ALA:H	2:658:B:ALA:O	7	0.14
(1,23)	2:658:B:ALA:N	2:654:B:ALA:O	3	0.14
(1,23)	2:658:B:ALA:N	2:654:B:ALA:O	8	0.14
(1,22)	1:322:A:VAL:H	1:318:A:LYS:O	9	0.14
(1,17)	1:291:A:CYS:N	1:296:A:LYS:O	3	0.14
(2,2533)	2:658:B:ALA:HA	1:286:A:SER:HA	10	0.13
(2,2533)	2:658:B:ALA:HA	1:286:A:SER:HA	13	0.13
(2,2531)	2:658:B:ALA:HA	1:285:A:ASP:HB2	3	0.13
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB1	4	0.13
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB2	4	0.13
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB3	4	0.13
(2,2520)	2:656:B:THR:HG21	2:662:B:ALA:H	4	0.13
(2,2520)	2:656:B:THR:HG22	2:662:B:ALA:H	4	0.13
(2,2520)	2:656:B:THR:HG23	2:662:B:ALA:H	4	0.13
(2,2520)	2:656:B:THR:HG21	2:662:B:ALA:H	13	0.13
(2,2520)	2:656:B:THR:HG22	2:662:B:ALA:H	13	0.13
(2,2520)	2:656:B:THR:HG23	2:662:B:ALA:H	13	0.13
(2,2512)	1:322:A:VAL:HG21	1:293:A:THR:HB	6	0.13
(2,2512)	1:322:A:VAL:HG22	1:293:A:THR:HB	6	0.13
(2,2512)	1:322:A:VAL:HG23	1:293:A:THR:HB	6	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2473)	1:310:A:LEU:HD11	2:654:B:ALA:HB1	7	0.13
(2,2473)	1:310:A:LEU:HD11	2:654:B:ALA:HB2	7	0.13
(2,2473)	1:310:A:LEU:HD11	2:654:B:ALA:HB3	7	0.13
(2,2473)	1:310:A:LEU:HD12	2:654:B:ALA:HB1	7	0.13
(2,2473)	1:310:A:LEU:HD12	2:654:B:ALA:HB2	7	0.13
(2,2473)	1:310:A:LEU:HD12	2:654:B:ALA:HB3	7	0.13
(2,2473)	1:310:A:LEU:HD13	2:654:B:ALA:HB1	7	0.13
(2,2473)	1:310:A:LEU:HD13	2:654:B:ALA:HB2	7	0.13
(2,2473)	1:310:A:LEU:HD13	2:654:B:ALA:HB3	7	0.13
(2,2366)	1:290:A:VAL:H	2:656:B:THR:HG21	10	0.13
(2,2366)	1:290:A:VAL:H	2:656:B:THR:HG22	10	0.13
(2,2366)	1:290:A:VAL:H	2:656:B:THR:HG23	10	0.13
(2,2366)	1:290:A:VAL:H	2:656:B:THR:HG21	11	0.13
(2,2366)	1:290:A:VAL:H	2:656:B:THR:HG22	11	0.13
(2,2366)	1:290:A:VAL:H	2:656:B:THR:HG23	11	0.13
(2,2363)	1:290:A:VAL:HG11	1:298:A:TYR:HB2	6	0.13
(2,2363)	1:290:A:VAL:HG12	1:298:A:TYR:HB2	6	0.13
(2,2363)	1:290:A:VAL:HG13	1:298:A:TYR:HB2	6	0.13
(2,2332)	1:289:A:LEU:HD21	1:303:A:LEU:HD11	8	0.13
(2,2332)	1:289:A:LEU:HD21	1:303:A:LEU:HD12	8	0.13
(2,2332)	1:289:A:LEU:HD21	1:303:A:LEU:HD13	8	0.13
(2,2332)	1:289:A:LEU:HD22	1:303:A:LEU:HD11	8	0.13
(2,2332)	1:289:A:LEU:HD22	1:303:A:LEU:HD12	8	0.13
(2,2332)	1:289:A:LEU:HD22	1:303:A:LEU:HD13	8	0.13
(2,2332)	1:289:A:LEU:HD23	1:303:A:LEU:HD11	8	0.13
(2,2332)	1:289:A:LEU:HD23	1:303:A:LEU:HD12	8	0.13
(2,2332)	1:289:A:LEU:HD23	1:303:A:LEU:HD13	8	0.13
(2,2296)	1:288:A:MET:HE1	1:274:A:LYS:HG2	4	0.13
(2,2296)	1:288:A:MET:HE2	1:274:A:LYS:HG2	4	0.13
(2,2296)	1:288:A:MET:HE3	1:274:A:LYS:HG2	4	0.13
(2,2277)	1:285:A:ASP:HB3	2:658:B:ALA:HB1	9	0.13
(2,2277)	1:285:A:ASP:HB3	2:658:B:ALA:HB2	9	0.13
(2,2277)	1:285:A:ASP:HB3	2:658:B:ALA:HB3	9	0.13
(2,2277)	1:285:A:ASP:HB3	2:658:B:ALA:HB1	15	0.13
(2,2277)	1:285:A:ASP:HB3	2:658:B:ALA:HB2	15	0.13
(2,2277)	1:285:A:ASP:HB3	2:658:B:ALA:HB3	15	0.13
(2,2237)	1:278:A:ALA:H	1:298:A:TYR:HE1	10	0.13
(2,2237)	1:278:A:ALA:H	1:298:A:TYR:HE2	10	0.13
(2,2197)	1:268:A:TRP:HD1	1:295:A:ASP:HB3	14	0.13
(2,2151)	1:256:A:LEU:HD21	2:668:B:LYS:HG3	5	0.13
(2,2151)	1:256:A:LEU:HD22	2:668:B:LYS:HG3	5	0.13
(2,2151)	1:256:A:LEU:HD23	2:668:B:LYS:HG3	5	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2148)	1:256:A:LEU:HD11	2:666:B:LEU:H	2	0.13
(2,2148)	1:256:A:LEU:HD12	2:666:B:LEU:H	2	0.13
(2,2148)	1:256:A:LEU:HD13	2:666:B:LEU:H	2	0.13
(2,2121)	1:253:A:GLY:HA3	1:241:A:LEU:HD11	3	0.13
(2,2121)	1:253:A:GLY:HA3	1:241:A:LEU:HD12	3	0.13
(2,2121)	1:253:A:GLY:HA3	1:241:A:LEU:HD13	3	0.13
(2,2108)	1:251:A:TYR:HD1	1:242:A:PHE:HB2	2	0.13
(2,2108)	1:251:A:TYR:HD2	1:242:A:PHE:HB2	2	0.13
(2,2072)	1:244:A:CYS:H	1:270:A:CYS:H	5	0.13
(2,2016)	1:231:A:VAL:HG11	2:665:B:GLN:H	14	0.13
(2,2016)	1:231:A:VAL:HG12	2:665:B:GLN:H	14	0.13
(2,2016)	1:231:A:VAL:HG13	2:665:B:GLN:H	14	0.13
(2,1979)	1:229:A:CYS:HA	1:251:A:TYR:HA	1	0.13
(2,1831)	2:659:B:ASP:H	2:656:B:THR:HB	2	0.13
(2,1826)	2:658:B:ALA:HB1	2:662:B:ALA:H	2	0.13
(2,1826)	2:658:B:ALA:HB2	2:662:B:ALA:H	2	0.13
(2,1826)	2:658:B:ALA:HB3	2:662:B:ALA:H	2	0.13
(2,1819)	2:658:B:ALA:HB1	2:656:B:THR:HB	4	0.13
(2,1819)	2:658:B:ALA:HB2	2:656:B:THR:HB	4	0.13
(2,1819)	2:658:B:ALA:HB3	2:656:B:THR:HB	4	0.13
(2,1819)	2:658:B:ALA:HB1	2:656:B:THR:HB	11	0.13
(2,1819)	2:658:B:ALA:HB2	2:656:B:THR:HB	11	0.13
(2,1819)	2:658:B:ALA:HB3	2:656:B:THR:HB	11	0.13
(2,1819)	2:658:B:ALA:HB1	2:656:B:THR:HB	13	0.13
(2,1819)	2:658:B:ALA:HB2	2:656:B:THR:HB	13	0.13
(2,1819)	2:658:B:ALA:HB3	2:656:B:THR:HB	13	0.13
(2,1819)	2:658:B:ALA:HB1	2:656:B:THR:HB	14	0.13
(2,1819)	2:658:B:ALA:HB2	2:656:B:THR:HB	14	0.13
(2,1819)	2:658:B:ALA:HB3	2:656:B:THR:HB	14	0.13
(2,1720)	1:302:A:CYS:H	1:306:A:PRO:HB2	9	0.13
(2,1711)	1:301:A:PHE:H	1:298:A:TYR:HD1	1	0.13
(2,1711)	1:301:A:PHE:H	1:298:A:TYR:HD2	1	0.13
(2,1708)	1:300:A:THR:HG21	1:303:A:LEU:HG	1	0.13
(2,1708)	1:300:A:THR:HG22	1:303:A:LEU:HG	1	0.13
(2,1708)	1:300:A:THR:HG23	1:303:A:LEU:HG	1	0.13
(2,1687)	1:293:A:THR:H	1:295:A:ASP:H	8	0.13
(2,1630)	1:271:A:PRO:HA	1:274:A:LYS:HB2	4	0.13
(2,1630)	1:271:A:PRO:HA	1:274:A:LYS:HB2	5	0.13
(2,1630)	1:271:A:PRO:HA	1:274:A:LYS:HB2	11	0.13
(2,1630)	1:271:A:PRO:HA	1:274:A:LYS:HB2	15	0.13
(2,1548)	1:233:A:GLU:H	1:231:A:VAL:HB	12	0.13
(2,1530)	2:670:B:GLN:H	2:669:B:ALA:HA	11	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1530)	2:670:B:GLN:H	2:669:B:ALA:HA	14	0.13
(2,1500)	2:667:B:VAL:H	2:666:B:LEU:HD21	5	0.13
(2,1500)	2:667:B:VAL:H	2:666:B:LEU:HD22	5	0.13
(2,1500)	2:667:B:VAL:H	2:666:B:LEU:HD23	5	0.13
(2,1492)	2:666:B:LEU:HA	2:665:B:GLN:HG2	3	0.13
(2,1492)	2:666:B:LEU:HA	2:665:B:GLN:HG2	5	0.13
(2,1492)	2:666:B:LEU:HA	2:665:B:GLN:HG2	7	0.13
(2,1492)	2:666:B:LEU:HA	2:665:B:GLN:HG2	10	0.13
(2,1492)	2:666:B:LEU:HA	2:665:B:GLN:HG2	11	0.13
(2,1492)	2:666:B:LEU:HA	2:665:B:GLN:HG2	12	0.13
(2,1492)	2:666:B:LEU:HA	2:665:B:GLN:HG2	13	0.13
(2,1492)	2:666:B:LEU:HA	2:665:B:GLN:HG2	14	0.13
(2,1283)	1:304:A:LYS:HD2	1:305:A:PRO:HA	11	0.13
(2,1277)	1:304:A:LYS:HB2	1:303:A:LEU:H	3	0.13
(2,1191)	1:280:A:ARG:HD2	1:279:A:CYS:H	5	0.13
(2,979)	1:232:A:CYS:HB2	1:231:A:VAL:HG21	9	0.13
(2,979)	1:232:A:CYS:HB2	1:231:A:VAL:HG22	9	0.13
(2,979)	1:232:A:CYS:HB2	1:231:A:VAL:HG23	9	0.13
(2,979)	1:232:A:CYS:HB2	1:231:A:VAL:HG21	15	0.13
(2,979)	1:232:A:CYS:HB2	1:231:A:VAL:HG22	15	0.13
(2,979)	1:232:A:CYS:HB2	1:231:A:VAL:HG23	15	0.13
(2,971)	1:231:A:VAL:HG21	1:232:A:CYS:HB3	5	0.13
(2,971)	1:231:A:VAL:HG22	1:232:A:CYS:HB3	5	0.13
(2,971)	1:231:A:VAL:HG23	1:232:A:CYS:HB3	5	0.13
(2,936)	1:227:A:ALA:H	1:226:A:SER:HB2	4	0.13
(2,936)	1:227:A:ALA:H	1:226:A:SER:HB2	5	0.13
(2,936)	1:227:A:ALA:H	1:226:A:SER:HB2	10	0.13
(2,890)	2:668:B:LYS:HD2	2:668:B:LYS:HE2	15	0.13
(2,879)	2:668:B:LYS:H	2:668:B:LYS:HB3	1	0.13
(2,879)	2:668:B:LYS:H	2:668:B:LYS:HB3	7	0.13
(2,879)	2:668:B:LYS:H	2:668:B:LYS:HB3	15	0.13
(2,629)	1:308:A:GLU:HB2	1:308:A:GLU:HG2	2	0.13
(2,629)	1:308:A:GLU:HB2	1:308:A:GLU:HG2	3	0.13
(2,629)	1:308:A:GLU:HB2	1:308:A:GLU:HG2	4	0.13
(2,629)	1:308:A:GLU:HB2	1:308:A:GLU:HG2	7	0.13
(2,629)	1:308:A:GLU:HB2	1:308:A:GLU:HG2	8	0.13
(2,629)	1:308:A:GLU:HB2	1:308:A:GLU:HG2	9	0.13
(2,629)	1:308:A:GLU:HB2	1:308:A:GLU:HG2	11	0.13
(2,555)	1:301:A:PHE:HD1	1:301:A:PHE:HA	8	0.13
(2,555)	1:301:A:PHE:HD2	1:301:A:PHE:HA	8	0.13
(2,526)	1:297:A:GLY:H	1:297:A:GLY:HA3	5	0.13
(2,383)	1:272:A:GLU:H	1:272:A:GLU:HB2	14	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,370)	1:269:A:GLN:HA	1:269:A:GLN:HB2	14	0.13
(2,292)	1:256:A:LEU:H	1:256:A:LEU:HG	8	0.13
(2,174)	1:235:A:PRO:HD2	1:235:A:PRO:HB2	1	0.13
(2,151)	1:231:A:VAL:HA	1:231:A:VAL:HB	2	0.13
(2,151)	1:231:A:VAL:HA	1:231:A:VAL:HB	13	0.13
(2,90)	2:665:B:GLN:H	2:666:B:LEU:HG	13	0.13
(2,74)	2:654:B:ALA:H	1:311:A:PRO:HG2	14	0.13
(2,63)	1:310:A:LEU:HB2	1:307:A:MET:HE2	5	0.13
(2,16)	1:249:A:HIS:HA	1:250:A:HIS:HD2	9	0.13
(2,5)	1:231:A:VAL:HG23	1:230:A:ALA:HB3	6	0.13
(2,5)	1:231:A:VAL:HG22	1:230:A:ALA:HB3	15	0.13
(2,1)	1:231:A:VAL:HG13	1:233:A:GLU:H	10	0.13
(1,23)	2:658:B:ALA:N	2:654:B:ALA:O	11	0.13
(1,23)	2:658:B:ALA:N	2:654:B:ALA:O	12	0.13
(1,22)	1:322:A:VAL:H	1:318:A:LYS:O	1	0.13
(1,22)	1:322:A:VAL:H	1:318:A:LYS:O	5	0.13
(1,22)	1:322:A:VAL:H	1:318:A:LYS:O	15	0.13
(1,17)	1:291:A:CYS:N	1:296:A:LYS:O	9	0.13
(1,8)	1:250:A:HIS:H	1:227:A:ALA:O	10	0.13
(1,2)	1:242:A:PHE:H	1:251:A:TYR:O	11	0.13
(2,2533)	2:658:B:ALA:HA	1:286:A:SER:HA	15	0.12
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB1	2	0.12
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB2	2	0.12
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB3	2	0.12
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB1	6	0.12
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB2	6	0.12
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB3	6	0.12
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB1	8	0.12
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB2	8	0.12
(2,2525)	2:657:B:LEU:H	2:662:B:ALA:HB3	8	0.12
(2,2520)	2:656:B:THR:HG21	2:662:B:ALA:H	10	0.12
(2,2520)	2:656:B:THR:HG22	2:662:B:ALA:H	10	0.12
(2,2520)	2:656:B:THR:HG23	2:662:B:ALA:H	10	0.12
(2,2499)	1:315:A:TRP:HB3	2:654:B:ALA:HB1	6	0.12
(2,2499)	1:315:A:TRP:HB3	2:654:B:ALA:HB2	6	0.12
(2,2499)	1:315:A:TRP:HB3	2:654:B:ALA:HB3	6	0.12
(2,2473)	1:310:A:LEU:HD11	2:654:B:ALA:HB1	1	0.12
(2,2473)	1:310:A:LEU:HD11	2:654:B:ALA:HB2	1	0.12
(2,2473)	1:310:A:LEU:HD11	2:654:B:ALA:HB3	1	0.12
(2,2473)	1:310:A:LEU:HD12	2:654:B:ALA:HB1	1	0.12
(2,2473)	1:310:A:LEU:HD12	2:654:B:ALA:HB2	1	0.12
(2,2473)	1:310:A:LEU:HD12	2:654:B:ALA:HB3	1	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2473)	1:310:A:LEU:HD13	2:654:B:ALA:HB1	1	0.12
(2,2473)	1:310:A:LEU:HD13	2:654:B:ALA:HB2	1	0.12
(2,2473)	1:310:A:LEU:HD13	2:654:B:ALA:HB3	1	0.12
(2,2445)	1:301:A:PHE:H	1:306:A:PRO:HB2	6	0.12
(2,2411)	1:298:A:TYR:H	2:657:B:LEU:HD11	3	0.12
(2,2411)	1:298:A:TYR:H	2:657:B:LEU:HD12	3	0.12
(2,2411)	1:298:A:TYR:H	2:657:B:LEU:HD13	3	0.12
(2,2397)	1:298:A:TYR:HE1	1:277:A:GLN:HB2	10	0.12
(2,2397)	1:298:A:TYR:HE2	1:277:A:GLN:HB2	10	0.12
(2,2394)	1:297:A:GLY:HA2	1:290:A:VAL:HG21	3	0.12
(2,2394)	1:297:A:GLY:HA2	1:290:A:VAL:HG22	3	0.12
(2,2394)	1:297:A:GLY:HA2	1:290:A:VAL:HG23	3	0.12
(2,2394)	1:297:A:GLY:HA2	1:290:A:VAL:HG21	13	0.12
(2,2394)	1:297:A:GLY:HA2	1:290:A:VAL:HG22	13	0.12
(2,2394)	1:297:A:GLY:HA2	1:290:A:VAL:HG23	13	0.12
(2,2379)	1:293:A:THR:H	1:316:A:LYS:HA	8	0.12
(2,2379)	1:293:A:THR:H	1:316:A:LYS:HA	15	0.12
(2,2363)	1:290:A:VAL:HG11	1:298:A:TYR:HB2	3	0.12
(2,2363)	1:290:A:VAL:HG12	1:298:A:TYR:HB2	3	0.12
(2,2363)	1:290:A:VAL:HG13	1:298:A:TYR:HB2	3	0.12
(2,2363)	1:290:A:VAL:HG11	1:298:A:TYR:HB2	4	0.12
(2,2363)	1:290:A:VAL:HG12	1:298:A:TYR:HB2	4	0.12
(2,2363)	1:290:A:VAL:HG13	1:298:A:TYR:HB2	4	0.12
(2,2362)	1:290:A:VAL:HG11	1:268:A:TRP:HZ2	9	0.12
(2,2362)	1:290:A:VAL:HG12	1:268:A:TRP:HZ2	9	0.12
(2,2362)	1:290:A:VAL:HG13	1:268:A:TRP:HZ2	9	0.12
(2,2333)	1:289:A:LEU:HD21	1:303:A:LEU:HG	1	0.12
(2,2333)	1:289:A:LEU:HD22	1:303:A:LEU:HG	1	0.12
(2,2333)	1:289:A:LEU:HD23	1:303:A:LEU:HG	1	0.12
(2,2244)	1:278:A:ALA:HB1	1:301:A:PHE:HE1	1	0.12
(2,2244)	1:278:A:ALA:HB1	1:301:A:PHE:HE2	1	0.12
(2,2244)	1:278:A:ALA:HB2	1:301:A:PHE:HE1	1	0.12
(2,2244)	1:278:A:ALA:HB2	1:301:A:PHE:HE2	1	0.12
(2,2244)	1:278:A:ALA:HB3	1:301:A:PHE:HE1	1	0.12
(2,2244)	1:278:A:ALA:HB3	1:301:A:PHE:HE2	1	0.12
(2,2241)	1:278:A:ALA:HB1	1:299:A:HIS:HD2	15	0.12
(2,2241)	1:278:A:ALA:HB2	1:299:A:HIS:HD2	15	0.12
(2,2241)	1:278:A:ALA:HB3	1:299:A:HIS:HD2	15	0.12
(2,2203)	1:272:A:GLU:H	2:668:B:LYS:HD2	11	0.12
(2,2203)	1:272:A:GLU:H	2:668:B:LYS:HD2	13	0.12
(2,2203)	1:272:A:GLU:H	2:668:B:LYS:HD2	15	0.12
(2,2139)	1:256:A:LEU:HD21	1:268:A:TRP:HH2	1	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2139)	1:256:A:LEU:HD22	1:268:A:TRP:HH2	1	0.12
(2,2139)	1:256:A:LEU:HD23	1:268:A:TRP:HH2	1	0.12
(2,2138)	1:256:A:LEU:HD21	1:251:A:TYR:HB2	4	0.12
(2,2138)	1:256:A:LEU:HD22	1:251:A:TYR:HB2	4	0.12
(2,2138)	1:256:A:LEU:HD23	1:251:A:TYR:HB2	4	0.12
(2,2076)	1:246:A:SER:H	1:273:A:CYS:HB3	15	0.12
(2,2059)	1:241:A:LEU:HD21	1:252:A:HIS:HD2	15	0.12
(2,2059)	1:241:A:LEU:HD22	1:252:A:HIS:HD2	15	0.12
(2,2059)	1:241:A:LEU:HD23	1:252:A:HIS:HD2	15	0.12
(2,2053)	1:241:A:LEU:HB2	1:250:A:HIS:HB2	12	0.12
(2,2027)	1:231:A:VAL:HG11	2:664:B:ALA:HB1	12	0.12
(2,2027)	1:231:A:VAL:HG11	2:664:B:ALA:HB2	12	0.12
(2,2027)	1:231:A:VAL:HG11	2:664:B:ALA:HB3	12	0.12
(2,2027)	1:231:A:VAL:HG12	2:664:B:ALA:HB1	12	0.12
(2,2027)	1:231:A:VAL:HG12	2:664:B:ALA:HB2	12	0.12
(2,2027)	1:231:A:VAL:HG12	2:664:B:ALA:HB3	12	0.12
(2,2027)	1:231:A:VAL:HG13	2:664:B:ALA:HB1	12	0.12
(2,2027)	1:231:A:VAL:HG13	2:664:B:ALA:HB2	12	0.12
(2,2027)	1:231:A:VAL:HG13	2:664:B:ALA:HB3	12	0.12
(2,2016)	1:231:A:VAL:HG11	2:665:B:GLN:H	9	0.12
(2,2016)	1:231:A:VAL:HG12	2:665:B:GLN:H	9	0.12
(2,2016)	1:231:A:VAL:HG13	2:665:B:GLN:H	9	0.12
(2,2009)	1:231:A:VAL:HG21	1:256:A:LEU:HG	8	0.12
(2,2009)	1:231:A:VAL:HG22	1:256:A:LEU:HG	8	0.12
(2,2009)	1:231:A:VAL:HG23	1:256:A:LEU:HG	8	0.12
(2,2000)	1:231:A:VAL:HB	1:255:A:CYS:HA	3	0.12
(2,1947)	1:227:A:ALA:HB1	1:241:A:LEU:HD21	13	0.12
(2,1947)	1:227:A:ALA:HB1	1:241:A:LEU:HD22	13	0.12
(2,1947)	1:227:A:ALA:HB1	1:241:A:LEU:HD23	13	0.12
(2,1947)	1:227:A:ALA:HB2	1:241:A:LEU:HD21	13	0.12
(2,1947)	1:227:A:ALA:HB2	1:241:A:LEU:HD22	13	0.12
(2,1947)	1:227:A:ALA:HB2	1:241:A:LEU:HD23	13	0.12
(2,1947)	1:227:A:ALA:HB3	1:241:A:LEU:HD21	13	0.12
(2,1947)	1:227:A:ALA:HB3	1:241:A:LEU:HD22	13	0.12
(2,1947)	1:227:A:ALA:HB3	1:241:A:LEU:HD23	13	0.12
(2,1937)	2:670:B:GLN:HE22	2:667:B:VAL:HG21	14	0.12
(2,1937)	2:670:B:GLN:HE22	2:667:B:VAL:HG22	14	0.12
(2,1937)	2:670:B:GLN:HE22	2:667:B:VAL:HG23	14	0.12
(2,1924)	2:670:B:GLN:HB2	2:666:B:LEU:HD21	5	0.12
(2,1924)	2:670:B:GLN:HB2	2:666:B:LEU:HD22	5	0.12
(2,1924)	2:670:B:GLN:HB2	2:666:B:LEU:HD23	5	0.12
(2,1909)	2:669:B:ALA:HB1	2:665:B:GLN:H	12	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1909)	2:669:B:ALA:HB2	2:665:B:GLN:H	12	0.12
(2,1909)	2:669:B:ALA:HB3	2:665:B:GLN:H	12	0.12
(2,1909)	2:669:B:ALA:HB1	2:665:B:GLN:H	15	0.12
(2,1909)	2:669:B:ALA:HB2	2:665:B:GLN:H	15	0.12
(2,1909)	2:669:B:ALA:HB3	2:665:B:GLN:H	15	0.12
(2,1831)	2:659:B:ASP:H	2:656:B:THR:HB	15	0.12
(2,1819)	2:658:B:ALA:HB1	2:656:B:THR:HB	3	0.12
(2,1819)	2:658:B:ALA:HB2	2:656:B:THR:HB	3	0.12
(2,1819)	2:658:B:ALA:HB3	2:656:B:THR:HB	3	0.12
(2,1819)	2:658:B:ALA:HB1	2:656:B:THR:HB	5	0.12
(2,1819)	2:658:B:ALA:HB2	2:656:B:THR:HB	5	0.12
(2,1819)	2:658:B:ALA:HB3	2:656:B:THR:HB	5	0.12
(2,1819)	2:658:B:ALA:HB1	2:656:B:THR:HB	8	0.12
(2,1819)	2:658:B:ALA:HB2	2:656:B:THR:HB	8	0.12
(2,1819)	2:658:B:ALA:HB3	2:656:B:THR:HB	8	0.12
(2,1784)	1:320:A:CYS:HA	1:322:A:VAL:HB	2	0.12
(2,1720)	1:302:A:CYS:H	1:306:A:PRO:HB2	13	0.12
(2,1708)	1:300:A:THR:HG21	1:303:A:LEU:HG	15	0.12
(2,1708)	1:300:A:THR:HG22	1:303:A:LEU:HG	15	0.12
(2,1708)	1:300:A:THR:HG23	1:303:A:LEU:HG	15	0.12
(2,1700)	1:299:A:HIS:HD2	1:301:A:PHE:HE1	2	0.12
(2,1700)	1:299:A:HIS:HD2	1:301:A:PHE:HE2	2	0.12
(2,1699)	1:299:A:HIS:HD2	1:297:A:GLY:HA2	3	0.12
(2,1687)	1:293:A:THR:H	1:295:A:ASP:H	3	0.12
(2,1630)	1:271:A:PRO:HA	1:274:A:LYS:HB2	10	0.12
(2,1586)	1:249:A:HIS:H	1:251:A:TYR:HE1	1	0.12
(2,1586)	1:249:A:HIS:H	1:251:A:TYR:HE2	1	0.12
(2,1586)	1:249:A:HIS:H	1:251:A:TYR:HE1	3	0.12
(2,1586)	1:249:A:HIS:H	1:251:A:TYR:HE2	3	0.12
(2,1586)	1:249:A:HIS:H	1:251:A:TYR:HE1	8	0.12
(2,1586)	1:249:A:HIS:H	1:251:A:TYR:HE2	8	0.12
(2,1530)	2:670:B:GLN:H	2:669:B:ALA:HA	2	0.12
(2,1506)	2:668:B:LYS:H	2:667:B:VAL:HB	5	0.12
(2,1492)	2:666:B:LEU:HA	2:665:B:GLN:HG2	1	0.12
(2,1492)	2:666:B:LEU:HA	2:665:B:GLN:HG2	4	0.12
(2,1492)	2:666:B:LEU:HA	2:665:B:GLN:HG2	6	0.12
(2,1492)	2:666:B:LEU:HA	2:665:B:GLN:HG2	8	0.12
(2,1492)	2:666:B:LEU:HA	2:665:B:GLN:HG2	9	0.12
(2,1409)	2:653:B:GLY:HA3	2:654:B:ALA:H	9	0.12
(2,1366)	1:317:A:CYS:H	1:316:A:LYS:HB2	14	0.12
(2,1356)	1:314:A:SER:H	1:313:A:HIS:HA	2	0.12
(2,1322)	1:310:A:LEU:HD11	1:309:A:GLU:HB2	14	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1322)	1:310:A:LEU:HD12	1:309:A:GLU:HB2	14	0.12
(2,1322)	1:310:A:LEU:HD13	1:309:A:GLU:HB2	14	0.12
(2,1283)	1:304:A:LYS:HD2	1:305:A:PRO:HA	1	0.12
(2,1283)	1:304:A:LYS:HD2	1:305:A:PRO:HA	3	0.12
(2,1283)	1:304:A:LYS:HD2	1:305:A:PRO:HA	5	0.12
(2,1283)	1:304:A:LYS:HD2	1:305:A:PRO:HA	8	0.12
(2,1059)	1:251:A:TYR:HD1	1:250:A:HIS:HD2	12	0.12
(2,1059)	1:251:A:TYR:HD2	1:250:A:HIS:HD2	12	0.12
(2,943)	1:227:A:ALA:HA	1:228:A:ARG:HD2	15	0.12
(2,941)	1:227:A:ALA:HB1	1:228:A:ARG:HB3	3	0.12
(2,941)	1:227:A:ALA:HB2	1:228:A:ARG:HB3	3	0.12
(2,941)	1:227:A:ALA:HB3	1:228:A:ARG:HB3	3	0.12
(2,847)	2:665:B:GLN:HB2	2:665:B:GLN:HA	1	0.12
(2,847)	2:665:B:GLN:HB2	2:665:B:GLN:HA	2	0.12
(2,847)	2:665:B:GLN:HB2	2:665:B:GLN:HA	3	0.12
(2,847)	2:665:B:GLN:HB2	2:665:B:GLN:HA	4	0.12
(2,847)	2:665:B:GLN:HB2	2:665:B:GLN:HA	5	0.12
(2,847)	2:665:B:GLN:HB2	2:665:B:GLN:HA	6	0.12
(2,847)	2:665:B:GLN:HB2	2:665:B:GLN:HA	7	0.12
(2,847)	2:665:B:GLN:HB2	2:665:B:GLN:HA	8	0.12
(2,847)	2:665:B:GLN:HB2	2:665:B:GLN:HA	9	0.12
(2,847)	2:665:B:GLN:HB2	2:665:B:GLN:HA	10	0.12
(2,847)	2:665:B:GLN:HB2	2:665:B:GLN:HA	11	0.12
(2,847)	2:665:B:GLN:HB2	2:665:B:GLN:HA	12	0.12
(2,847)	2:665:B:GLN:HB2	2:665:B:GLN:HA	13	0.12
(2,847)	2:665:B:GLN:HB2	2:665:B:GLN:HA	14	0.12
(2,847)	2:665:B:GLN:HB2	2:665:B:GLN:HA	15	0.12
(2,751)	1:322:A:VAL:HG21	1:322:A:VAL:HA	11	0.12
(2,751)	1:322:A:VAL:HG22	1:322:A:VAL:HA	11	0.12
(2,751)	1:322:A:VAL:HG23	1:322:A:VAL:HA	11	0.12
(2,751)	1:322:A:VAL:HG21	1:322:A:VAL:HA	12	0.12
(2,751)	1:322:A:VAL:HG22	1:322:A:VAL:HA	12	0.12
(2,751)	1:322:A:VAL:HG23	1:322:A:VAL:HA	12	0.12
(2,629)	1:308:A:GLU:HB2	1:308:A:GLU:HG2	5	0.12
(2,526)	1:297:A:GLY:H	1:297:A:GLY:HA3	8	0.12
(2,526)	1:297:A:GLY:H	1:297:A:GLY:HA3	11	0.12
(2,319)	1:260:A:LEU:HA	1:260:A:LEU:HD11	2	0.12
(2,319)	1:260:A:LEU:HA	1:260:A:LEU:HD12	2	0.12
(2,319)	1:260:A:LEU:HA	1:260:A:LEU:HD13	2	0.12
(2,319)	1:260:A:LEU:HA	1:260:A:LEU:HD11	4	0.12
(2,319)	1:260:A:LEU:HA	1:260:A:LEU:HD12	4	0.12
(2,319)	1:260:A:LEU:HA	1:260:A:LEU:HD13	4	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,319)	1:260:A:LEU:HA	1:260:A:LEU:HD11	5	0.12
(2,319)	1:260:A:LEU:HA	1:260:A:LEU:HD12	5	0.12
(2,319)	1:260:A:LEU:HA	1:260:A:LEU:HD13	5	0.12
(2,319)	1:260:A:LEU:HA	1:260:A:LEU:HD11	6	0.12
(2,319)	1:260:A:LEU:HA	1:260:A:LEU:HD12	6	0.12
(2,319)	1:260:A:LEU:HA	1:260:A:LEU:HD13	6	0.12
(2,319)	1:260:A:LEU:HA	1:260:A:LEU:HD11	11	0.12
(2,319)	1:260:A:LEU:HA	1:260:A:LEU:HD12	11	0.12
(2,319)	1:260:A:LEU:HA	1:260:A:LEU:HD13	11	0.12
(2,183)	1:237:A:GLU:H	1:237:A:GLU:HG2	7	0.12
(2,183)	1:237:A:GLU:H	1:237:A:GLU:HG2	10	0.12
(2,151)	1:231:A:VAL:HA	1:231:A:VAL:HB	4	0.12
(2,151)	1:231:A:VAL:HA	1:231:A:VAL:HB	7	0.12
(2,151)	1:231:A:VAL:HA	1:231:A:VAL:HB	11	0.12
(2,124)	1:228:A:ARG:H	1:228:A:ARG:HD2	13	0.12
(2,51)	1:303:A:LEU:HD11	1:311:A:PRO:HG2	12	0.12
(2,45)	1:294:A:CYS:H	1:295:A:ASP:H	9	0.12
(2,45)	1:294:A:CYS:H	1:295:A:ASP:H	13	0.12
(1,40)	2:666:B:LEU:H	2:662:B:ALA:O	4	0.12
(1,36)	2:664:B:ALA:H	2:660:B:ILE:O	9	0.12
(1,36)	2:664:B:ALA:H	2:660:B:ILE:O	10	0.12
(1,32)	2:662:B:ALA:H	2:658:B:ALA:O	5	0.12
(1,32)	2:662:B:ALA:H	2:658:B:ALA:O	11	0.12
(1,28)	2:660:B:ILE:H	2:656:B:THR:O	15	0.12
(1,22)	1:322:A:VAL:H	1:318:A:LYS:O	4	0.12
(1,21)	1:322:A:VAL:N	1:318:A:LYS:O	6	0.12
(1,8)	1:250:A:HIS:H	1:227:A:ALA:O	5	0.12
(2,2533)	2:658:B:ALA:HA	1:286:A:SER:HA	4	0.11
(2,2533)	2:658:B:ALA:HA	1:286:A:SER:HA	8	0.11
(2,2533)	2:658:B:ALA:HA	1:286:A:SER:HA	9	0.11
(2,2533)	2:658:B:ALA:HA	1:286:A:SER:HA	11	0.11
(2,2533)	2:658:B:ALA:HA	1:286:A:SER:HA	12	0.11
(2,2533)	2:658:B:ALA:HA	1:286:A:SER:HA	14	0.11
(2,2532)	2:658:B:ALA:H	1:286:A:SER:HB2	10	0.11
(2,2520)	2:656:B:THR:HG21	2:662:B:ALA:H	7	0.11
(2,2520)	2:656:B:THR:HG22	2:662:B:ALA:H	7	0.11
(2,2520)	2:656:B:THR:HG23	2:662:B:ALA:H	7	0.11
(2,2510)	1:321:A:ARG:H	1:316:A:LYS:HB3	10	0.11
(2,2496)	1:315:A:TRP:HZ2	1:307:A:MET:HE1	2	0.11
(2,2496)	1:315:A:TRP:HZ2	1:307:A:MET:HE2	2	0.11
(2,2496)	1:315:A:TRP:HZ2	1:307:A:MET:HE3	2	0.11
(2,2476)	1:310:A:LEU:HD21	2:654:B:ALA:HB1	4	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2476)	1:310:A:LEU:HD21	2:654:B:ALA:HB2	4	0.11
(2,2476)	1:310:A:LEU:HD21	2:654:B:ALA:HB3	4	0.11
(2,2476)	1:310:A:LEU:HD22	2:654:B:ALA:HB1	4	0.11
(2,2476)	1:310:A:LEU:HD22	2:654:B:ALA:HB2	4	0.11
(2,2476)	1:310:A:LEU:HD22	2:654:B:ALA:HB3	4	0.11
(2,2476)	1:310:A:LEU:HD23	2:654:B:ALA:HB1	4	0.11
(2,2476)	1:310:A:LEU:HD23	2:654:B:ALA:HB2	4	0.11
(2,2476)	1:310:A:LEU:HD23	2:654:B:ALA:HB3	4	0.11
(2,2476)	1:310:A:LEU:HD21	2:654:B:ALA:HB1	7	0.11
(2,2476)	1:310:A:LEU:HD21	2:654:B:ALA:HB2	7	0.11
(2,2476)	1:310:A:LEU:HD21	2:654:B:ALA:HB3	7	0.11
(2,2476)	1:310:A:LEU:HD22	2:654:B:ALA:HB1	7	0.11
(2,2476)	1:310:A:LEU:HD22	2:654:B:ALA:HB2	7	0.11
(2,2476)	1:310:A:LEU:HD22	2:654:B:ALA:HB3	7	0.11
(2,2476)	1:310:A:LEU:HD23	2:654:B:ALA:HB1	7	0.11
(2,2476)	1:310:A:LEU:HD23	2:654:B:ALA:HB2	7	0.11
(2,2476)	1:310:A:LEU:HD23	2:654:B:ALA:HB3	7	0.11
(2,2473)	1:310:A:LEU:HD11	2:654:B:ALA:HB1	4	0.11
(2,2473)	1:310:A:LEU:HD11	2:654:B:ALA:HB2	4	0.11
(2,2473)	1:310:A:LEU:HD11	2:654:B:ALA:HB3	4	0.11
(2,2473)	1:310:A:LEU:HD12	2:654:B:ALA:HB1	4	0.11
(2,2473)	1:310:A:LEU:HD12	2:654:B:ALA:HB2	4	0.11
(2,2473)	1:310:A:LEU:HD12	2:654:B:ALA:HB3	4	0.11
(2,2473)	1:310:A:LEU:HD13	2:654:B:ALA:HB1	4	0.11
(2,2473)	1:310:A:LEU:HD13	2:654:B:ALA:HB2	4	0.11
(2,2473)	1:310:A:LEU:HD13	2:654:B:ALA:HB3	4	0.11
(2,2445)	1:301:A:PHE:H	1:306:A:PRO:HB2	2	0.11
(2,2407)	1:298:A:TYR:HE1	1:303:A:LEU:HD11	8	0.11
(2,2407)	1:298:A:TYR:HE1	1:303:A:LEU:HD12	8	0.11
(2,2407)	1:298:A:TYR:HE1	1:303:A:LEU:HD13	8	0.11
(2,2407)	1:298:A:TYR:HE2	1:303:A:LEU:HD11	8	0.11
(2,2407)	1:298:A:TYR:HE2	1:303:A:LEU:HD12	8	0.11
(2,2407)	1:298:A:TYR:HE2	1:303:A:LEU:HD13	8	0.11
(2,2397)	1:298:A:TYR:HE1	1:277:A:GLN:HB2	2	0.11
(2,2397)	1:298:A:TYR:HE2	1:277:A:GLN:HB2	2	0.11
(2,2394)	1:297:A:GLY:HA2	1:290:A:VAL:HG21	8	0.11
(2,2394)	1:297:A:GLY:HA2	1:290:A:VAL:HG22	8	0.11
(2,2394)	1:297:A:GLY:HA2	1:290:A:VAL:HG23	8	0.11
(2,2386)	1:293:A:THR:HG21	1:320:A:CYS:HB2	6	0.11
(2,2386)	1:293:A:THR:HG22	1:320:A:CYS:HB2	6	0.11
(2,2386)	1:293:A:THR:HG23	1:320:A:CYS:HB2	6	0.11
(2,2379)	1:293:A:THR:H	1:316:A:LYS:HA	13	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2366)	1:290:A:VAL:H	2:656:B:THR:HG21	1	0.11
(2,2366)	1:290:A:VAL:H	2:656:B:THR:HG22	1	0.11
(2,2366)	1:290:A:VAL:H	2:656:B:THR:HG23	1	0.11
(2,2366)	1:290:A:VAL:H	2:656:B:THR:HG21	8	0.11
(2,2366)	1:290:A:VAL:H	2:656:B:THR:HG22	8	0.11
(2,2366)	1:290:A:VAL:H	2:656:B:THR:HG23	8	0.11
(2,2333)	1:289:A:LEU:HD21	1:303:A:LEU:HG	8	0.11
(2,2333)	1:289:A:LEU:HD22	1:303:A:LEU:HG	8	0.11
(2,2333)	1:289:A:LEU:HD23	1:303:A:LEU:HG	8	0.11
(2,2280)	1:285:A:ASP:HB3	2:660:B:ILE:HD11	10	0.11
(2,2280)	1:285:A:ASP:HB3	2:660:B:ILE:HD12	10	0.11
(2,2280)	1:285:A:ASP:HB3	2:660:B:ILE:HD13	10	0.11
(2,2262)	1:280:A:ARG:H	1:275:A:VAL:HB	2	0.11
(2,2262)	1:280:A:ARG:H	1:275:A:VAL:HB	12	0.11
(2,2203)	1:272:A:GLU:H	2:668:B:LYS:HD2	1	0.11
(2,2203)	1:272:A:GLU:H	2:668:B:LYS:HD2	5	0.11
(2,2203)	1:272:A:GLU:H	2:668:B:LYS:HD2	7	0.11
(2,2130)	1:255:A:CYS:H	1:231:A:VAL:HG21	5	0.11
(2,2130)	1:255:A:CYS:H	1:231:A:VAL:HG22	5	0.11
(2,2130)	1:255:A:CYS:H	1:231:A:VAL:HG23	5	0.11
(2,2121)	1:253:A:GLY:HA3	1:241:A:LEU:HD11	4	0.11
(2,2121)	1:253:A:GLY:HA3	1:241:A:LEU:HD12	4	0.11
(2,2121)	1:253:A:GLY:HA3	1:241:A:LEU:HD13	4	0.11
(2,2068)	1:243:A:PHE:HE1	1:249:A:HIS:HE1	8	0.11
(2,2068)	1:243:A:PHE:HE2	1:249:A:HIS:HE1	8	0.11
(2,2035)	1:232:A:CYS:HB3	2:667:B:VAL:HG21	5	0.11
(2,2035)	1:232:A:CYS:HB3	2:667:B:VAL:HG22	5	0.11
(2,2035)	1:232:A:CYS:HB3	2:667:B:VAL:HG23	5	0.11
(2,1999)	1:231:A:VAL:HG11	1:255:A:CYS:HA	12	0.11
(2,1999)	1:231:A:VAL:HG12	1:255:A:CYS:HA	12	0.11
(2,1999)	1:231:A:VAL:HG13	1:255:A:CYS:HA	12	0.11
(2,1924)	2:670:B:GLN:HB2	2:666:B:LEU:HD21	3	0.11
(2,1924)	2:670:B:GLN:HB2	2:666:B:LEU:HD22	3	0.11
(2,1924)	2:670:B:GLN:HB2	2:666:B:LEU:HD23	3	0.11
(2,1909)	2:669:B:ALA:HB1	2:665:B:GLN:H	5	0.11
(2,1909)	2:669:B:ALA:HB2	2:665:B:GLN:H	5	0.11
(2,1909)	2:669:B:ALA:HB3	2:665:B:GLN:H	5	0.11
(2,1909)	2:669:B:ALA:HB1	2:665:B:GLN:H	14	0.11
(2,1909)	2:669:B:ALA:HB2	2:665:B:GLN:H	14	0.11
(2,1909)	2:669:B:ALA:HB3	2:665:B:GLN:H	14	0.11
(2,1900)	2:668:B:LYS:HB2	2:665:B:GLN:HA	2	0.11
(2,1900)	2:668:B:LYS:HB2	2:665:B:GLN:HA	9	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1826)	2:658:B:ALA:HB1	2:662:B:ALA:H	15	0.11
(2,1826)	2:658:B:ALA:HB2	2:662:B:ALA:H	15	0.11
(2,1826)	2:658:B:ALA:HB3	2:662:B:ALA:H	15	0.11
(2,1819)	2:658:B:ALA:HB1	2:656:B:THR:HB	2	0.11
(2,1819)	2:658:B:ALA:HB2	2:656:B:THR:HB	2	0.11
(2,1819)	2:658:B:ALA:HB3	2:656:B:THR:HB	2	0.11
(2,1819)	2:658:B:ALA:HB1	2:656:B:THR:HB	10	0.11
(2,1819)	2:658:B:ALA:HB2	2:656:B:THR:HB	10	0.11
(2,1819)	2:658:B:ALA:HB3	2:656:B:THR:HB	10	0.11
(2,1731)	1:303:A:LEU:HG	1:307:A:MET:HB3	12	0.11
(2,1731)	1:303:A:LEU:HG	1:307:A:MET:HB3	14	0.11
(2,1720)	1:302:A:CYS:H	1:306:A:PRO:HB2	3	0.11
(2,1720)	1:302:A:CYS:H	1:306:A:PRO:HB2	5	0.11
(2,1720)	1:302:A:CYS:H	1:306:A:PRO:HB2	7	0.11
(2,1720)	1:302:A:CYS:H	1:306:A:PRO:HB2	10	0.11
(2,1720)	1:302:A:CYS:H	1:306:A:PRO:HB2	11	0.11
(2,1720)	1:302:A:CYS:H	1:306:A:PRO:HB2	12	0.11
(2,1711)	1:301:A:PHE:H	1:298:A:TYR:HD1	10	0.11
(2,1711)	1:301:A:PHE:H	1:298:A:TYR:HD2	10	0.11
(2,1710)	1:300:A:THR:HB	1:303:A:LEU:HG	9	0.11
(2,1708)	1:300:A:THR:HG21	1:303:A:LEU:HG	8	0.11
(2,1708)	1:300:A:THR:HG22	1:303:A:LEU:HG	8	0.11
(2,1708)	1:300:A:THR:HG23	1:303:A:LEU:HG	8	0.11
(2,1700)	1:299:A:HIS:HD2	1:301:A:PHE:HE1	6	0.11
(2,1700)	1:299:A:HIS:HD2	1:301:A:PHE:HE2	6	0.11
(2,1673)	1:285:A:ASP:H	1:282:A:PRO:HB2	10	0.11
(2,1586)	1:249:A:HIS:H	1:251:A:TYR:HE1	15	0.11
(2,1586)	1:249:A:HIS:H	1:251:A:TYR:HE2	15	0.11
(2,1548)	1:233:A:GLU:H	1:231:A:VAL:HB	5	0.11
(2,1506)	2:668:B:LYS:H	2:667:B:VAL:HB	15	0.11
(2,1500)	2:667:B:VAL:H	2:666:B:LEU:HD21	1	0.11
(2,1500)	2:667:B:VAL:H	2:666:B:LEU:HD22	1	0.11
(2,1500)	2:667:B:VAL:H	2:666:B:LEU:HD23	1	0.11
(2,1500)	2:667:B:VAL:H	2:666:B:LEU:HD21	2	0.11
(2,1500)	2:667:B:VAL:H	2:666:B:LEU:HD22	2	0.11
(2,1500)	2:667:B:VAL:H	2:666:B:LEU:HD23	2	0.11
(2,1412)	2:654:B:ALA:H	2:653:B:GLY:H	9	0.11
(2,1283)	1:304:A:LYS:HD2	1:305:A:PRO:HA	9	0.11
(2,1283)	1:304:A:LYS:HD2	1:305:A:PRO:HA	15	0.11
(2,1209)	1:290:A:VAL:H	1:289:A:LEU:HB3	4	0.11
(2,1203)	1:288:A:MET:HE1	1:287:A:LYS:H	1	0.11
(2,1203)	1:288:A:MET:HE2	1:287:A:LYS:H	1	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1203)	1:288:A:MET:HE3	1:287:A:LYS:H	1	0.11
(2,1069)	1:253:A:GLY:H	1:254:A:ALA:H	12	0.11
(2,1014)	1:240:A:ASP:H	1:239:A:CYS:HB2	10	0.11
(2,936)	1:227:A:ALA:H	1:226:A:SER:HB2	15	0.11
(2,899)	2:668:B:LYS:HG3	2:668:B:LYS:HE2	11	0.11
(2,879)	2:668:B:LYS:H	2:668:B:LYS:HB3	12	0.11
(2,862)	2:666:B:LEU:H	2:666:B:LEU:HD11	7	0.11
(2,862)	2:666:B:LEU:H	2:666:B:LEU:HD12	7	0.11
(2,862)	2:666:B:LEU:H	2:666:B:LEU:HD13	7	0.11
(2,862)	2:666:B:LEU:H	2:666:B:LEU:HD11	10	0.11
(2,862)	2:666:B:LEU:H	2:666:B:LEU:HD12	10	0.11
(2,862)	2:666:B:LEU:H	2:666:B:LEU:HD13	10	0.11
(2,862)	2:666:B:LEU:H	2:666:B:LEU:HD11	13	0.11
(2,862)	2:666:B:LEU:H	2:666:B:LEU:HD12	13	0.11
(2,862)	2:666:B:LEU:H	2:666:B:LEU:HD13	13	0.11
(2,779)	2:656:B:THR:HA	2:656:B:THR:HB	14	0.11
(2,555)	1:301:A:PHE:HD1	1:301:A:PHE:HA	2	0.11
(2,555)	1:301:A:PHE:HD2	1:301:A:PHE:HA	2	0.11
(2,555)	1:301:A:PHE:HD1	1:301:A:PHE:HA	15	0.11
(2,555)	1:301:A:PHE:HD2	1:301:A:PHE:HA	15	0.11
(2,551)	1:300:A:THR:HB	1:300:A:THR:HA	3	0.11
(2,551)	1:300:A:THR:HB	1:300:A:THR:HA	7	0.11
(2,526)	1:297:A:GLY:H	1:297:A:GLY:HA3	1	0.11
(2,526)	1:297:A:GLY:H	1:297:A:GLY:HA3	6	0.11
(2,499)	1:291:A:CYS:H	1:291:A:CYS:HB2	11	0.11
(2,383)	1:272:A:GLU:H	1:272:A:GLU:HB2	7	0.11
(2,375)	1:272:A:GLU:HG2	1:272:A:GLU:HA	1	0.11
(2,375)	1:272:A:GLU:HG2	1:272:A:GLU:HA	9	0.11
(2,328)	1:260:A:LEU:HD11	1:260:A:LEU:HB2	4	0.11
(2,328)	1:260:A:LEU:HD12	1:260:A:LEU:HB2	4	0.11
(2,328)	1:260:A:LEU:HD13	1:260:A:LEU:HB2	4	0.11
(2,319)	1:260:A:LEU:HA	1:260:A:LEU:HD11	3	0.11
(2,319)	1:260:A:LEU:HA	1:260:A:LEU:HD12	3	0.11
(2,319)	1:260:A:LEU:HA	1:260:A:LEU:HD13	3	0.11
(2,319)	1:260:A:LEU:HA	1:260:A:LEU:HD11	7	0.11
(2,319)	1:260:A:LEU:HA	1:260:A:LEU:HD12	7	0.11
(2,319)	1:260:A:LEU:HA	1:260:A:LEU:HD13	7	0.11
(2,319)	1:260:A:LEU:HA	1:260:A:LEU:HD11	8	0.11
(2,319)	1:260:A:LEU:HA	1:260:A:LEU:HD12	8	0.11
(2,319)	1:260:A:LEU:HA	1:260:A:LEU:HD13	8	0.11
(2,319)	1:260:A:LEU:HA	1:260:A:LEU:HD11	10	0.11
(2,319)	1:260:A:LEU:HA	1:260:A:LEU:HD12	10	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,319)	1:260:A:LEU:HA	1:260:A:LEU:HD13	10	0.11
(2,319)	1:260:A:LEU:HA	1:260:A:LEU:HD11	13	0.11
(2,319)	1:260:A:LEU:HA	1:260:A:LEU:HD12	13	0.11
(2,319)	1:260:A:LEU:HA	1:260:A:LEU:HD13	13	0.11
(2,319)	1:260:A:LEU:HA	1:260:A:LEU:HD11	14	0.11
(2,319)	1:260:A:LEU:HA	1:260:A:LEU:HD12	14	0.11
(2,319)	1:260:A:LEU:HA	1:260:A:LEU:HD13	14	0.11
(2,292)	1:256:A:LEU:H	1:256:A:LEU:HG	10	0.11
(2,183)	1:237:A:GLU:H	1:237:A:GLU:HG2	2	0.11
(2,174)	1:235:A:PRO:HD2	1:235:A:PRO:HB2	4	0.11
(2,151)	1:231:A:VAL:HA	1:231:A:VAL:HB	1	0.11
(2,151)	1:231:A:VAL:HA	1:231:A:VAL:HB	10	0.11
(2,116)	1:288:A:MET:HE2	2:657:B:LEU:H	15	0.11
(2,101)	2:669:B:ALA:HB1	2:666:B:LEU:HD23	3	0.11
(2,99)	2:662:B:ALA:H	2:660:B:ILE:HD11	6	0.11
(2,63)	1:310:A:LEU:HB2	1:307:A:MET:HE1	8	0.11
(2,45)	1:294:A:CYS:H	1:295:A:ASP:H	7	0.11
(2,20)	1:232:A:CYS:HB2	2:667:B:VAL:HG13	6	0.11
(1,40)	2:666:B:LEU:H	2:662:B:ALA:O	1	0.11
(1,36)	2:664:B:ALA:H	2:660:B:ILE:O	12	0.11
(1,28)	2:660:B:ILE:H	2:656:B:THR:O	7	0.11
(1,23)	2:658:B:ALA:N	2:654:B:ALA:O	7	0.11
(1,22)	1:322:A:VAL:H	1:318:A:LYS:O	11	0.11
(1,21)	1:322:A:VAL:N	1:318:A:LYS:O	3	0.11
(1,18)	1:291:A:CYS:H	1:296:A:LYS:O	15	0.11
(1,17)	1:291:A:CYS:N	1:296:A:LYS:O	6	0.11
(1,17)	1:291:A:CYS:N	1:296:A:LYS:O	8	0.11
(1,7)	1:250:A:HIS:N	1:227:A:ALA:O	8	0.11
(1,2)	1:242:A:PHE:H	1:251:A:TYR:O	3	0.11
(1,2)	1:242:A:PHE:H	1:251:A:TYR:O	14	0.11
(2,2530)	2:658:B:ALA:H	1:285:A:ASP:HA	15	0.1
(2,2394)	1:297:A:GLY:HA2	1:290:A:VAL:HG21	9	0.1
(2,2394)	1:297:A:GLY:HA2	1:290:A:VAL:HG22	9	0.1
(2,2394)	1:297:A:GLY:HA2	1:290:A:VAL:HG23	9	0.1
(2,2342)	1:289:A:LEU:H	1:310:A:LEU:HD21	9	0.1
(2,2342)	1:289:A:LEU:H	1:310:A:LEU:HD22	9	0.1
(2,2342)	1:289:A:LEU:H	1:310:A:LEU:HD23	9	0.1
(2,2310)	1:288:A:MET:HE1	1:299:A:HIS:HD2	3	0.1
(2,2310)	1:288:A:MET:HE2	1:299:A:HIS:HD2	3	0.1
(2,2310)	1:288:A:MET:HE3	1:299:A:HIS:HD2	3	0.1
(2,2284)	1:286:A:SER:HB3	2:656:B:THR:HG21	6	0.1
(2,2284)	1:286:A:SER:HB3	2:656:B:THR:HG22	6	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2284)	1:286:A:SER:HB3	2:656:B:THR:HG23	6	0.1
(2,2195)	1:268:A:TRP:HD1	1:245:A:THR:HG21	7	0.1
(2,2195)	1:268:A:TRP:HD1	1:245:A:THR:HG22	7	0.1
(2,2195)	1:268:A:TRP:HD1	1:245:A:THR:HG23	7	0.1
(2,2141)	1:256:A:LEU:HD11	2:660:B:ILE:HG21	12	0.1
(2,2141)	1:256:A:LEU:HD11	2:660:B:ILE:HG22	12	0.1
(2,2141)	1:256:A:LEU:HD11	2:660:B:ILE:HG23	12	0.1
(2,2141)	1:256:A:LEU:HD12	2:660:B:ILE:HG21	12	0.1
(2,2141)	1:256:A:LEU:HD12	2:660:B:ILE:HG22	12	0.1
(2,2141)	1:256:A:LEU:HD12	2:660:B:ILE:HG23	12	0.1
(2,2141)	1:256:A:LEU:HD13	2:660:B:ILE:HG21	12	0.1
(2,2141)	1:256:A:LEU:HD13	2:660:B:ILE:HG22	12	0.1
(2,2141)	1:256:A:LEU:HD13	2:660:B:ILE:HG23	12	0.1
(2,2130)	1:255:A:CYS:H	1:231:A:VAL:HG21	8	0.1
(2,2130)	1:255:A:CYS:H	1:231:A:VAL:HG22	8	0.1
(2,2130)	1:255:A:CYS:H	1:231:A:VAL:HG23	8	0.1
(2,2084)	1:248:A:GLY:HA2	1:243:A:PHE:HE1	2	0.1
(2,2084)	1:248:A:GLY:HA2	1:243:A:PHE:HE2	2	0.1
(2,2016)	1:231:A:VAL:HG11	2:665:B:GLN:H	5	0.1
(2,2016)	1:231:A:VAL:HG12	2:665:B:GLN:H	5	0.1
(2,2016)	1:231:A:VAL:HG13	2:665:B:GLN:H	5	0.1
(2,1909)	2:669:B:ALA:HB1	2:665:B:GLN:H	9	0.1
(2,1909)	2:669:B:ALA:HB2	2:665:B:GLN:H	9	0.1
(2,1909)	2:669:B:ALA:HB3	2:665:B:GLN:H	9	0.1
(2,1909)	2:669:B:ALA:HB1	2:665:B:GLN:H	11	0.1
(2,1909)	2:669:B:ALA:HB2	2:665:B:GLN:H	11	0.1
(2,1909)	2:669:B:ALA:HB3	2:665:B:GLN:H	11	0.1
(2,1900)	2:668:B:LYS:HB2	2:665:B:GLN:HA	10	0.1
(2,1900)	2:668:B:LYS:HB2	2:665:B:GLN:HA	11	0.1
(2,1900)	2:668:B:LYS:HB2	2:665:B:GLN:HA	12	0.1
(2,1900)	2:668:B:LYS:HB2	2:665:B:GLN:HA	13	0.1
(2,1894)	2:668:B:LYS:HB3	2:665:B:GLN:H	2	0.1
(2,1831)	2:659:B:ASP:H	2:656:B:THR:HB	8	0.1
(2,1826)	2:658:B:ALA:HB1	2:662:B:ALA:H	8	0.1
(2,1826)	2:658:B:ALA:HB2	2:662:B:ALA:H	8	0.1
(2,1826)	2:658:B:ALA:HB3	2:662:B:ALA:H	8	0.1
(2,1800)	1:322:A:VAL:HG11	1:320:A:CYS:HA	1	0.1
(2,1800)	1:322:A:VAL:HG12	1:320:A:CYS:HA	1	0.1
(2,1800)	1:322:A:VAL:HG13	1:320:A:CYS:HA	1	0.1
(2,1731)	1:303:A:LEU:HG	1:307:A:MET:HB3	3	0.1
(2,1731)	1:303:A:LEU:HG	1:307:A:MET:HB3	8	0.1
(2,1711)	1:301:A:PHE:H	1:298:A:TYR:HD1	11	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1711)	1:301:A:PHE:H	1:298:A:TYR:HD2	11	0.1
(2,1711)	1:301:A:PHE:H	1:298:A:TYR:HD1	13	0.1
(2,1711)	1:301:A:PHE:H	1:298:A:TYR:HD2	13	0.1
(2,1522)	2:669:B:ALA:HA	2:668:B:LYS:HG2	2	0.1
(2,1500)	2:667:B:VAL:H	2:666:B:LEU:HD21	7	0.1
(2,1500)	2:667:B:VAL:H	2:666:B:LEU:HD22	7	0.1
(2,1500)	2:667:B:VAL:H	2:666:B:LEU:HD23	7	0.1
(2,1500)	2:667:B:VAL:H	2:666:B:LEU:HD21	13	0.1
(2,1500)	2:667:B:VAL:H	2:666:B:LEU:HD22	13	0.1
(2,1500)	2:667:B:VAL:H	2:666:B:LEU:HD23	13	0.1
(2,1322)	1:310:A:LEU:HD11	1:309:A:GLU:HB2	5	0.1
(2,1322)	1:310:A:LEU:HD12	1:309:A:GLU:HB2	5	0.1
(2,1322)	1:310:A:LEU:HD13	1:309:A:GLU:HB2	5	0.1
(2,975)	1:232:A:CYS:HB2	1:231:A:VAL:H	5	0.1
(2,936)	1:227:A:ALA:H	1:226:A:SER:HB2	2	0.1
(2,862)	2:666:B:LEU:H	2:666:B:LEU:HD11	14	0.1
(2,862)	2:666:B:LEU:H	2:666:B:LEU:HD12	14	0.1
(2,862)	2:666:B:LEU:H	2:666:B:LEU:HD13	14	0.1
(2,779)	2:656:B:THR:HA	2:656:B:THR:HB	4	0.1
(2,779)	2:656:B:THR:HA	2:656:B:THR:HB	5	0.1
(2,779)	2:656:B:THR:HA	2:656:B:THR:HB	8	0.1
(2,779)	2:656:B:THR:HA	2:656:B:THR:HB	11	0.1
(2,687)	1:315:A:TRP:H	1:315:A:TRP:HA	6	0.1
(2,555)	1:301:A:PHE:HD1	1:301:A:PHE:HA	7	0.1
(2,555)	1:301:A:PHE:HD2	1:301:A:PHE:HA	7	0.1
(2,555)	1:301:A:PHE:HD1	1:301:A:PHE:HA	10	0.1
(2,555)	1:301:A:PHE:HD2	1:301:A:PHE:HA	10	0.1
(2,555)	1:301:A:PHE:HD1	1:301:A:PHE:HA	11	0.1
(2,555)	1:301:A:PHE:HD2	1:301:A:PHE:HA	11	0.1
(2,551)	1:300:A:THR:HB	1:300:A:THR:HA	4	0.1
(2,551)	1:300:A:THR:HB	1:300:A:THR:HA	13	0.1
(2,526)	1:297:A:GLY:H	1:297:A:GLY:HA3	2	0.1
(2,375)	1:272:A:GLU:HG2	1:272:A:GLU:HA	3	0.1
(2,375)	1:272:A:GLU:HG2	1:272:A:GLU:HA	6	0.1
(2,375)	1:272:A:GLU:HG2	1:272:A:GLU:HA	7	0.1
(2,319)	1:260:A:LEU:HA	1:260:A:LEU:HD11	1	0.1
(2,319)	1:260:A:LEU:HA	1:260:A:LEU:HD12	1	0.1
(2,319)	1:260:A:LEU:HA	1:260:A:LEU:HD13	1	0.1
(2,124)	1:228:A:ARG:H	1:228:A:ARG:HD2	8	0.1
(1,36)	2:664:B:ALA:H	2:660:B:ILE:O	3	0.1
(1,36)	2:664:B:ALA:H	2:660:B:ILE:O	7	0.1
(1,32)	2:662:B:ALA:H	2:658:B:ALA:O	12	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,28)	2:660:B:ILE:H	2:656:B:THR:O	8	0.1
(1,23)	2:658:B:ALA:N	2:654:B:ALA:O	1	0.1
(1,22)	1:322:A:VAL:H	1:318:A:LYS:O	14	0.1
(1,8)	1:250:A:HIS:H	1:227:A:ALA:O	11	0.1

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

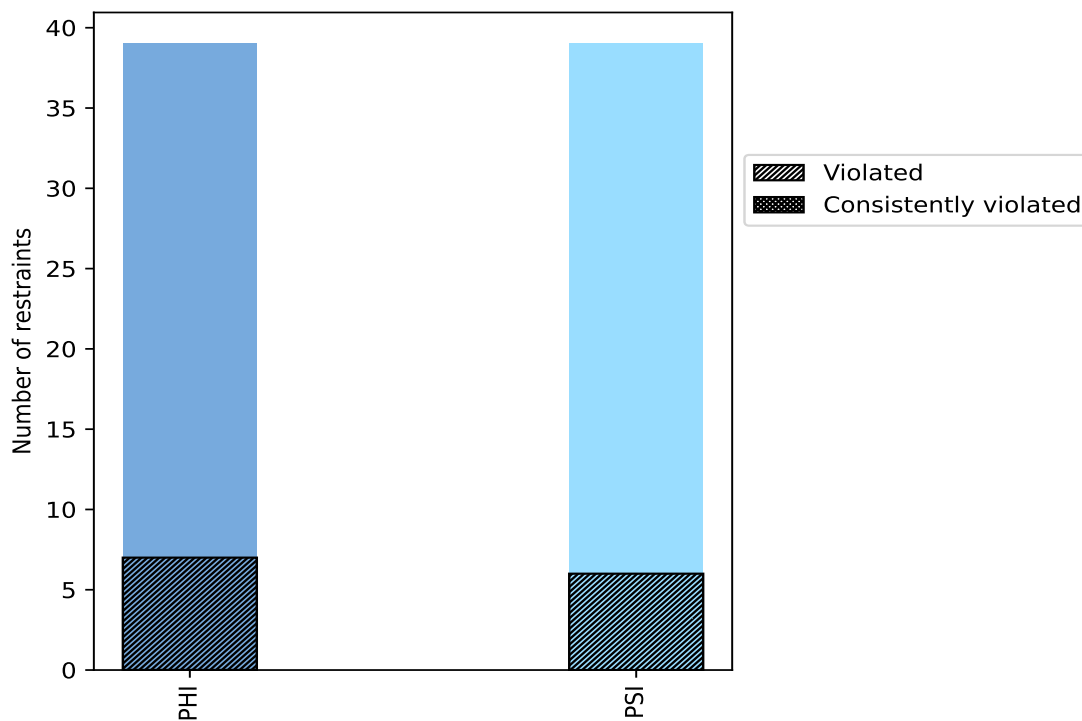
10.1 Summary of dihedral-angle violations [i](#)

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

Angle type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
PHI	39	50.0	7	17.9	9.0	0	0.0	0.0
PSI	39	50.0	6	15.4	7.7	0	0.0	0.0
Total	78	100.0	13	16.7	16.7	0	0.0	0.0

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

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



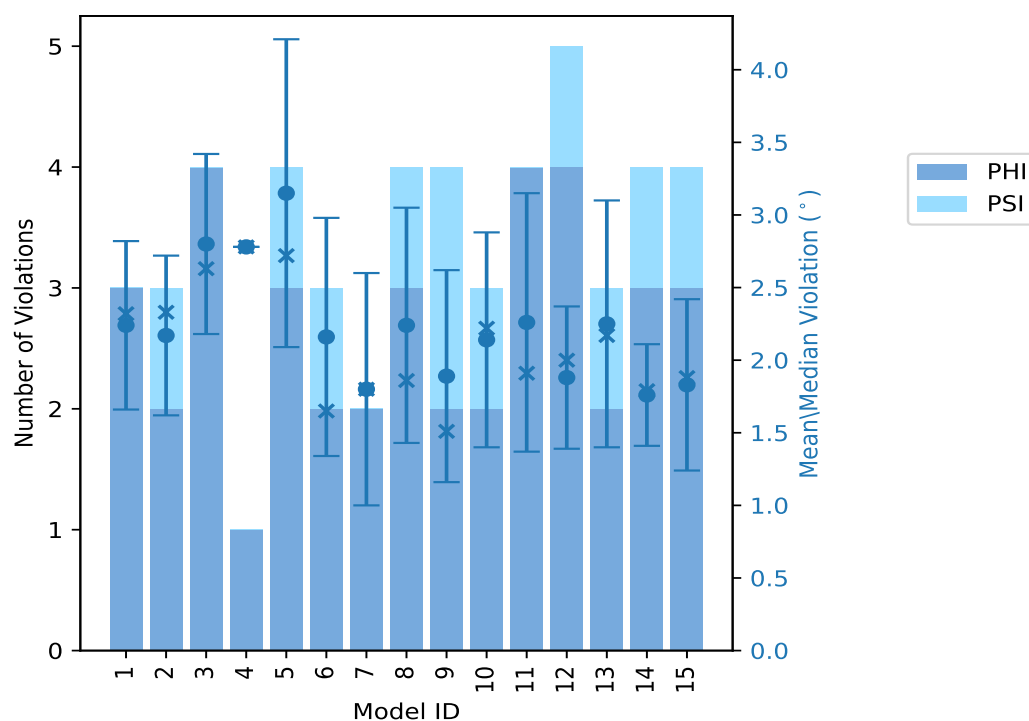
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

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

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

Model ID	Number of violations			Mean (°)	Max (°)	SD (°)	Median (°)
	PHI	PSI	Total				
1	3	0	3	2.24	2.91	0.58	2.32
2	2	1	3	2.17	2.75	0.55	2.33
3	4	0	4	2.8	3.72	0.62	2.63
4	1	0	1	2.78	2.78	0.0	2.78
5	3	1	4	3.15	4.88	1.06	2.72
6	2	1	3	2.16	3.32	0.82	1.65
7	2	0	2	1.8	2.59	0.8	1.8
8	3	1	4	2.24	3.62	0.81	1.86
9	2	2	4	1.89	3.15	0.73	1.51
10	2	1	3	2.14	3.0	0.74	2.22
11	4	0	4	2.26	3.73	0.89	1.91
12	4	1	5	1.88	2.53	0.49	2.0
13	2	1	3	2.25	3.33	0.85	2.17
14	3	1	4	1.76	2.23	0.35	1.79
15	3	1	4	1.83	2.43	0.59	1.88

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



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

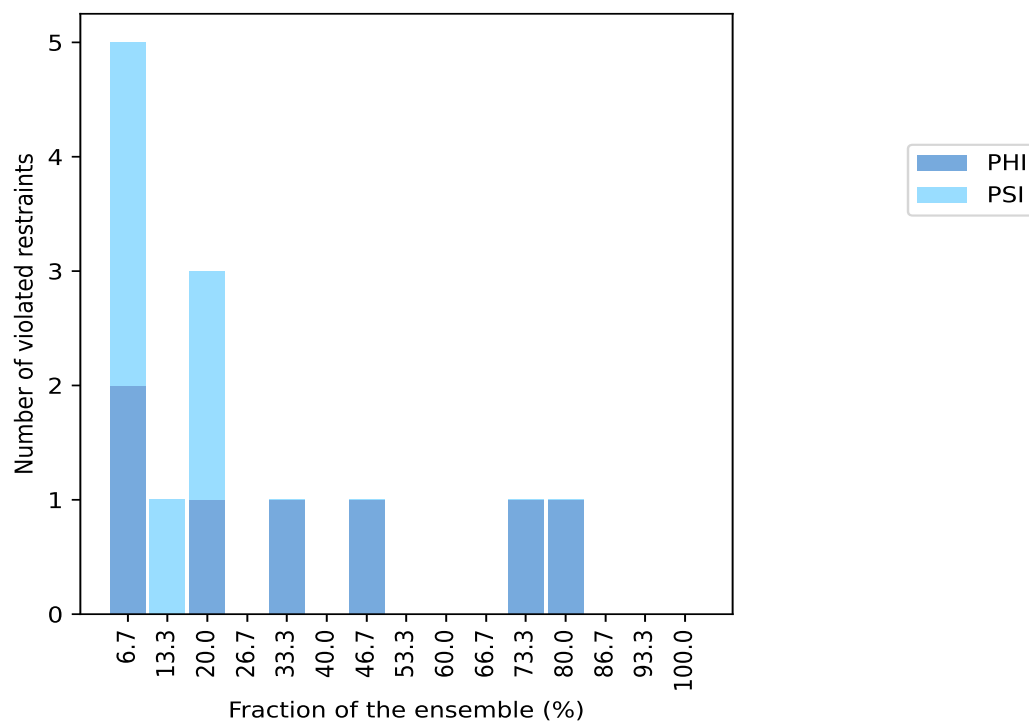
10.3 Dihedral-angle violation statistics for the ensemble

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

Number of violated restraints			Fraction of the ensemble	
PHI	PSI	Total	Count ¹	%
2	3	5	1	6.7
0	1	1	2	13.3
1	2	3	3	20.0
0	0	0	4	26.7
1	0	1	5	33.3
0	0	0	6	40.0
1	0	1	7	46.7
0	0	0	8	53.3
0	0	0	9	60.0
0	0	0	10	66.7
1	0	1	11	73.3
1	0	1	12	80.0
0	0	0	13	86.7
0	0	0	14	93.3
0	0	0	15	100.0

¹ Number of models with violations

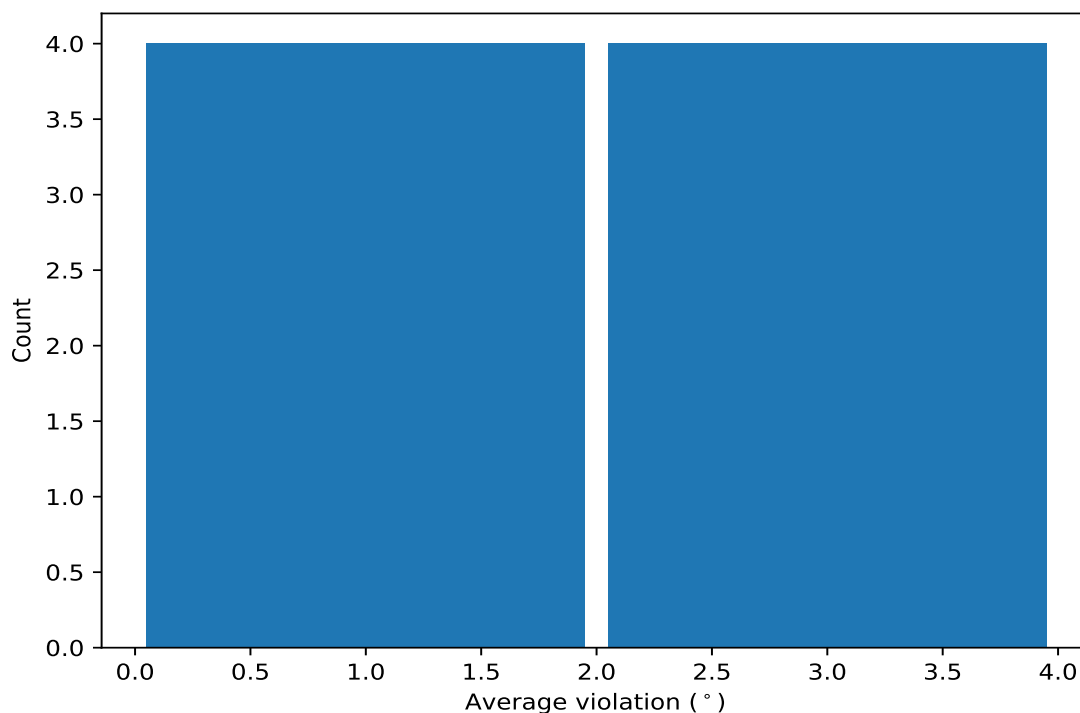
10.3.1 Bar graph : Dihedral-angle Violation statistics for the ensemble [i](#)



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.

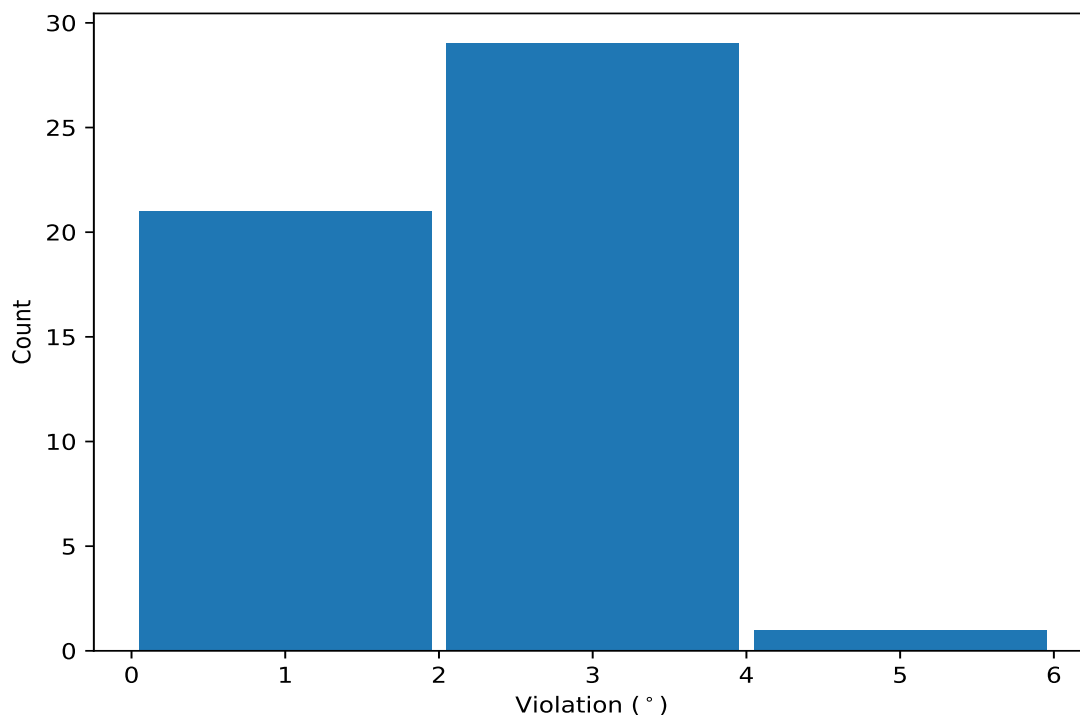
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,47)	1:298:A:TYR:C	1:299:A:HIS:N	1:299:A:HIS:CA	1:299:A:HIS:C	12	2.53	0.62	2.48
(1,37)	1:287:A:LYS:C	1:288:A:MET:N	1:288:A:MET:CA	1:288:A:MET:C	11	2.62	0.61	2.39
(1,9)	1:248:A:GLY:C	1:249:A:HIS:N	1:249:A:HIS:CA	1:249:A:HIS:C	7	1.84	0.65	1.49
(1,23)	1:255:A:CYS:C	1:256:A:LEU:N	1:256:A:LEU:CA	1:256:A:LEU:C	5	1.61	0.32	1.52
(1,21)	1:254:A:ALA:C	1:255:A:CYS:N	1:255:A:CYS:CA	1:255:A:CYS:C	3	2.7	0.76	3.15
(1,18)	1:253:A:GLY:N	1:253:A:GLY:CA	1:253:A:GLY:C	1:254:A:ALA:N	3	1.76	0.34	1.65
(1,54)	1:320:A:CYS:N	1:320:A:CYS:CA	1:320:A:CYS:C	1:321:A:ARG:N	3	1.33	0.16	1.26
(1,2)	1:241:A:LEU:N	1:241:A:LEU:CA	1:241:A:LEU:C	1:242:A:PHE:N	2	2.99	1.89	2.99

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 (°)
(1,2)	1:241:A:LEU:N	1:241:A:LEU:CA	1:241:A:LEU:C	1:242:A:PHE:N	5	4.88
(1,47)	1:298:A:TYR:C	1:299:A:HIS:N	1:299:A:HIS:CA	1:299:A:HIS:C	11	3.73
(1,37)	1:287:A:LYS:C	1:288:A:MET:N	1:288:A:MET:CA	1:288:A:MET:C	3	3.72
(1,37)	1:287:A:LYS:C	1:288:A:MET:N	1:288:A:MET:CA	1:288:A:MET:C	8	3.62
(1,47)	1:298:A:TYR:C	1:299:A:HIS:N	1:299:A:HIS:CA	1:299:A:HIS:C	13	3.33
(1,21)	1:254:A:ALA:C	1:255:A:CYS:N	1:255:A:CYS:CA	1:255:A:CYS:C	6	3.32
(1,47)	1:298:A:TYR:C	1:299:A:HIS:N	1:299:A:HIS:CA	1:299:A:HIS:C	5	3.15
(1,21)	1:254:A:ALA:C	1:255:A:CYS:N	1:255:A:CYS:CA	1:255:A:CYS:C	9	3.15
(1,9)	1:248:A:GLY:C	1:249:A:HIS:N	1:249:A:HIS:CA	1:249:A:HIS:C	3	3.01
(1,37)	1:287:A:LYS:C	1:288:A:MET:N	1:288:A:MET:CA	1:288:A:MET:C	10	3.0
(1,37)	1:287:A:LYS:C	1:288:A:MET:N	1:288:A:MET:CA	1:288:A:MET:C	1	2.91
(1,47)	1:298:A:TYR:C	1:299:A:HIS:N	1:299:A:HIS:CA	1:299:A:HIS:C	4	2.78
(1,37)	1:287:A:LYS:C	1:288:A:MET:N	1:288:A:MET:CA	1:288:A:MET:C	2	2.75
(1,47)	1:298:A:TYR:C	1:299:A:HIS:N	1:299:A:HIS:CA	1:299:A:HIS:C	7	2.59
(1,47)	1:298:A:TYR:C	1:299:A:HIS:N	1:299:A:HIS:CA	1:299:A:HIS:C	12	2.53
(1,47)	1:298:A:TYR:C	1:299:A:HIS:N	1:299:A:HIS:CA	1:299:A:HIS:C	15	2.43
(1,37)	1:287:A:LYS:C	1:288:A:MET:N	1:288:A:MET:CA	1:288:A:MET:C	15	2.39
(1,10)	1:249:A:HIS:N	1:249:A:HIS:CA	1:249:A:HIS:C	1:250:A:HIS:N	2	2.33
(1,9)	1:248:A:GLY:C	1:249:A:HIS:N	1:249:A:HIS:CA	1:249:A:HIS:C	1	2.32
(1,1)	1:240:A:ASP:C	1:241:A:LEU:N	1:241:A:LEU:CA	1:241:A:LEU:C	5	2.3
(1,37)	1:287:A:LYS:C	1:288:A:MET:N	1:288:A:MET:CA	1:288:A:MET:C	5	2.26

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,47)	1:298:A:TYR:C	1:299:A:HIS:N	1:299:A:HIS:CA	1:299:A:HIS:C	3	2.25
(1,9)	1:248:A:GLY:C	1:249:A:HIS:N	1:249:A:HIS:CA	1:249:A:HIS:C	14	2.23
(1,47)	1:298:A:TYR:C	1:299:A:HIS:N	1:299:A:HIS:CA	1:299:A:HIS:C	10	2.22
(1,18)	1:253:A:GLY:N	1:253:A:GLY:CA	1:253:A:GLY:C	1:254:A:ALA:N	12	2.21
(1,23)	1:255:A:CYS:C	1:256:A:LEU:N	1:256:A:LEU:CA	1:256:A:LEU:C	3	2.2
(1,37)	1:287:A:LYS:C	1:288:A:MET:N	1:288:A:MET:CA	1:288:A:MET:C	11	2.19
(1,37)	1:287:A:LYS:C	1:288:A:MET:N	1:288:A:MET:CA	1:288:A:MET:C	13	2.17
(1,47)	1:298:A:TYR:C	1:299:A:HIS:N	1:299:A:HIS:CA	1:299:A:HIS:C	8	2.0
(1,37)	1:287:A:LYS:C	1:288:A:MET:N	1:288:A:MET:CA	1:288:A:MET:C	12	2.0
(1,47)	1:298:A:TYR:C	1:299:A:HIS:N	1:299:A:HIS:CA	1:299:A:HIS:C	14	1.81
(1,37)	1:287:A:LYS:C	1:288:A:MET:N	1:288:A:MET:CA	1:288:A:MET:C	14	1.77
(1,48)	1:299:A:HIS:N	1:299:A:HIS:CA	1:299:A:HIS:C	1:300:A:THR:N	8	1.73
(1,18)	1:253:A:GLY:N	1:253:A:GLY:CA	1:253:A:GLY:C	1:254:A:ALA:N	6	1.65
(1,23)	1:255:A:CYS:C	1:256:A:LEU:N	1:256:A:LEU:CA	1:256:A:LEU:C	11	1.63
(1,21)	1:254:A:ALA:C	1:255:A:CYS:N	1:255:A:CYS:CA	1:255:A:CYS:C	8	1.62
(1,54)	1:320:A:CYS:N	1:320:A:CYS:CA	1:320:A:CYS:C	1:321:A:ARG:N	9	1.55
(1,23)	1:255:A:CYS:C	1:256:A:LEU:N	1:256:A:LEU:CA	1:256:A:LEU:C	6	1.52
(1,47)	1:298:A:TYR:C	1:299:A:HIS:N	1:299:A:HIS:CA	1:299:A:HIS:C	1	1.49
(1,9)	1:248:A:GLY:C	1:249:A:HIS:N	1:249:A:HIS:CA	1:249:A:HIS:C	11	1.49
(1,9)	1:248:A:GLY:C	1:249:A:HIS:N	1:249:A:HIS:CA	1:249:A:HIS:C	9	1.47
(1,23)	1:255:A:CYS:C	1:256:A:LEU:N	1:256:A:LEU:CA	1:256:A:LEU:C	2	1.44
(1,18)	1:253:A:GLY:N	1:253:A:GLY:CA	1:253:A:GLY:C	1:254:A:ALA:N	9	1.41
(1,15)	1:251:A:TYR:C	1:252:A:HIS:N	1:252:A:HIS:CA	1:252:A:HIS:C	12	1.39
(1,9)	1:248:A:GLY:C	1:249:A:HIS:N	1:249:A:HIS:CA	1:249:A:HIS:C	15	1.38
(1,54)	1:320:A:CYS:N	1:320:A:CYS:CA	1:320:A:CYS:C	1:321:A:ARG:N	13	1.26
(1,76)	2:666:B:LEU:N	2:666:B:LEU:CA	2:666:B:LEU:C	2:667:B:VAL:N	14	1.25
(1,23)	1:255:A:CYS:C	1:256:A:LEU:N	1:256:A:LEU:CA	1:256:A:LEU:C	12	1.25
(1,54)	1:320:A:CYS:N	1:320:A:CYS:CA	1:320:A:CYS:C	1:321:A:ARG:N	10	1.19
(1,2)	1:241:A:LEU:N	1:241:A:LEU:CA	1:241:A:LEU:C	1:242:A:PHE:N	15	1.1
(1,9)	1:248:A:GLY:C	1:249:A:HIS:N	1:249:A:HIS:CA	1:249:A:HIS:C	7	1.0