



Full wwPDB NMR Structure Validation Report ⓘ

Mar 8, 2026 – 11:04 AM UTC

PDB ID : 9B4W / pdb_00009b4w
BMRB ID : 31153
Title : 4F-Trp labeled Oscillatoria Agardhii Agglutinin (OAA)
Authors : Runge, B.R.; Zadorozhnyi, R.R.; Quinn, C.M.; Russell, R.W.; Lu, M.; Antolinez, S.; Struppe, J.; Schwieters, C.D.; Byeon, I.L.; Hadden-Perilla, J.; Gronenborn, A.M.; Polenova, T.
Deposited on : 2024-03-21

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4-5-2 with Phenix2.0
Mogul : 2022.3.0, CSD as543be (2022)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
wwPDB-RCI : v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV : Wang et al. (2010)
wwPDB-ShiftChecker : v1.2
BMRB Restraints Analysis : v1.2
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

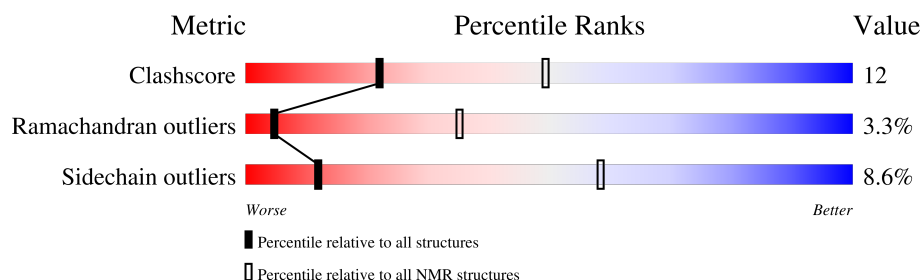
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLID-STATE NMR

The overall completeness of chemical shifts assignment is 42%.

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



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

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

Mol	Chain	Length	Quality of chain
1	A	133	 68% 16% • 14% •

2 Ensemble composition and analysis

This entry contains 10 models. Model 4 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *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:2-A:9, A:18-A:22, A:24-A:76, A:85-A:89, A:91-A:133 (114)	0.46	4

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

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

The models can be grouped into 2 clusters. No single-model clusters were found.

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

3 Entry composition [i](#)

There is only 1 type of molecule in this entry. The entry contains 1866 atoms, of which 877 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Lectin.

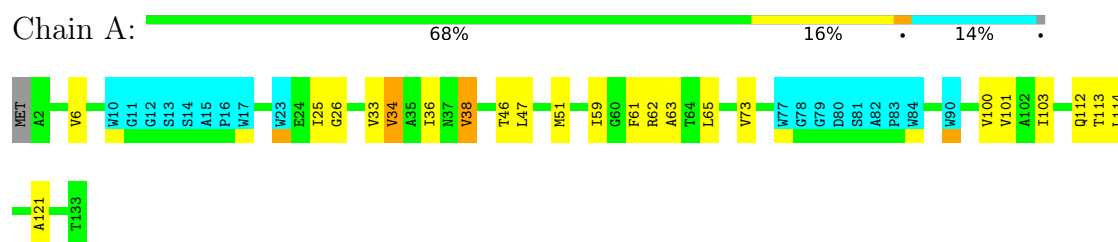
Mol	Chain	Residues	Atoms								Trace
1	A	132	Total	C	F	H	N	O	S		0
			1866	601	6	877	171	209	2		

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: Lectin

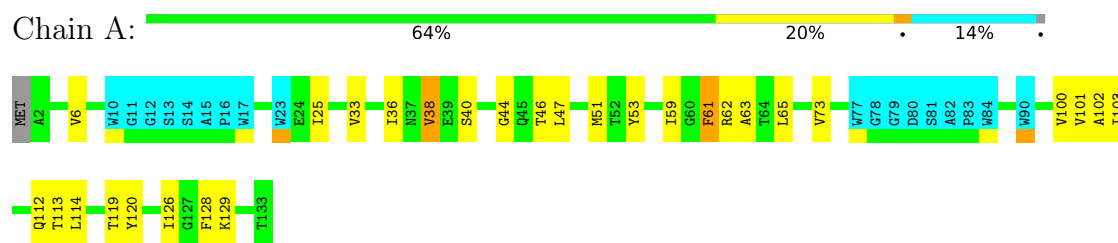


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

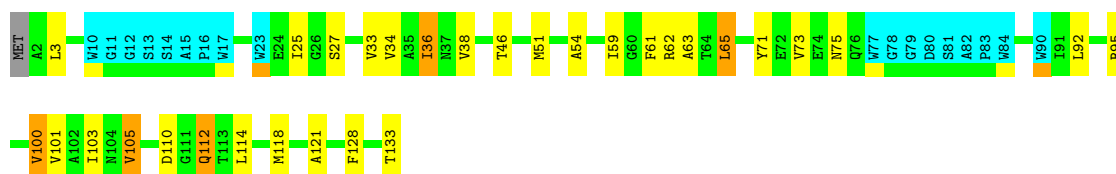
- Molecule 1: Lectin



4.2.2 Score per residue for model 2

- Molecule 1: Lectin

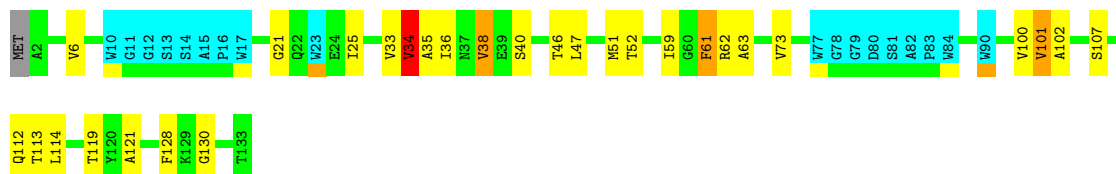




4.2.3 Score per residue for model 3

- Molecule 1: Lectin

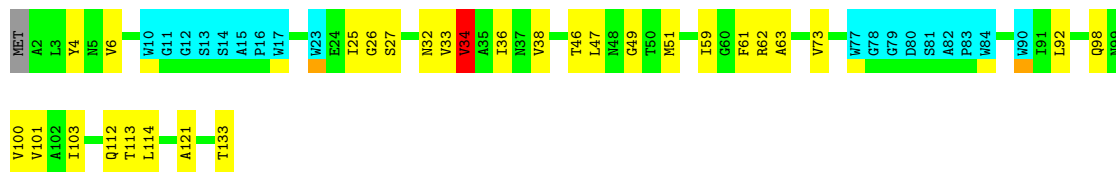
Chain A: 64% 19% .. 14%



4.2.4 Score per residue for model 4 (medoid)

- Molecule 1: Lectin

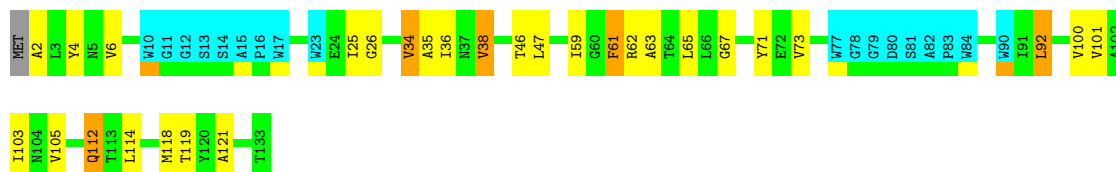
Chain A: 64% 21% . 14%



4.2.5 Score per residue for model 5

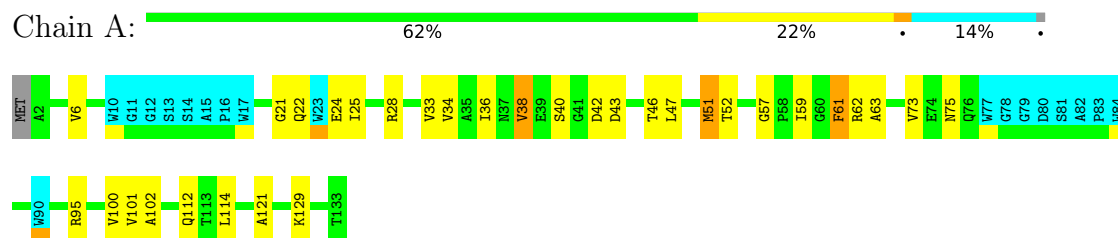
- Molecule 1: Lectin

Chain A: 64% 18% . 14%



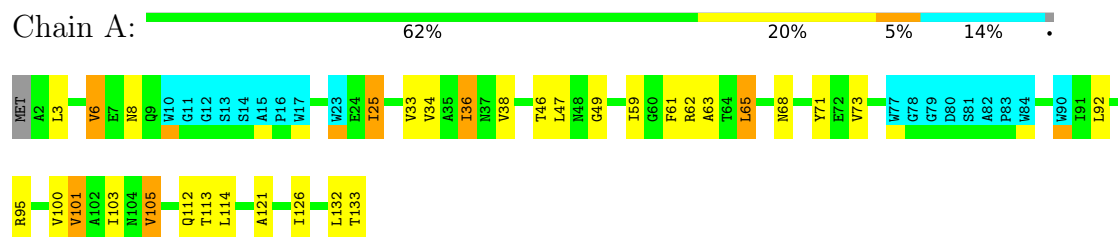
4.2.6 Score per residue for model 6

- Molecule 1: Lectin



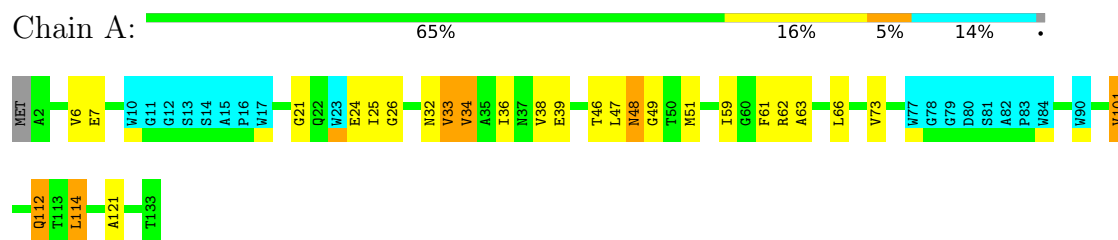
4.2.7 Score per residue for model 7

- Molecule 1: Lectin



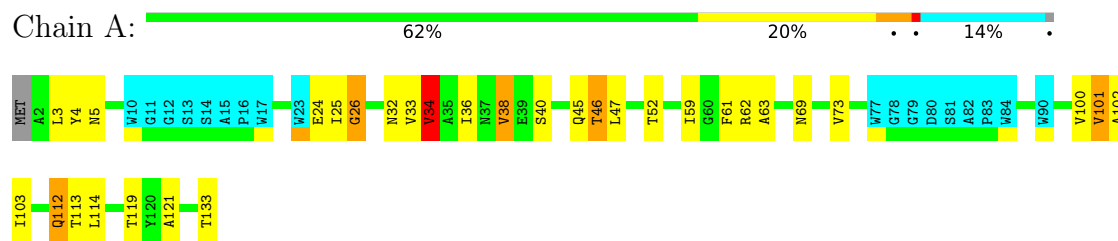
4.2.8 Score per residue for model 8

- Molecule 1: Lectin



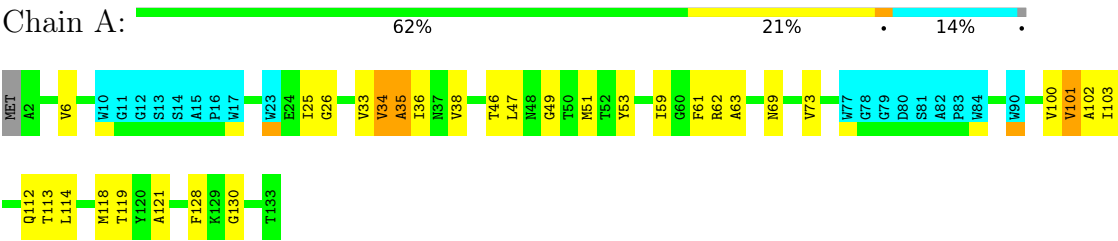
4.2.9 Score per residue for model 9

- Molecule 1: Lectin



4.2.10 Score per residue for model 10

● Molecule 1: Lectin



5 Refinement protocol and experimental data overview

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

Of the 1000 calculated structures, 10 were deposited, based on the following criterion: *structures with the lowest energy*.

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

Software name	Classification	Version
X-PLOR NIH	structure calculation	
X-PLOR NIH	refinement	

The following table shows chemical shift validation statistics as aggregates over all chemical shift files. Detailed validation can be found in section 7 of this report.

Chemical shift file(s)	working_cs.cif
Number of chemical shift lists	1
Total number of shifts	679
Number of shifts mapped to atoms	679
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	42%

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

6 Model quality [i](#)

6.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section:
4FW

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	833	768	767	18±3
All	All	8330	7680	7670	184

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 12.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:25:ILE:HG22	1:A:33:VAL:HG21	1.05	1.23	1	1
1:A:25:ILE:HG21	1:A:36:ILE:HD11	0.80	1.52	10	5
1:A:4:TYR:CD1	1:A:25:ILE:HD13	0.74	2.17	9	1
1:A:98:GLN:OE1	1:A:121:ALA:HB3	0.69	1.88	4	1
1:A:101:VAL:HG21	1:A:121:ALA:HB2	0.68	1.66	4	5
1:A:38:VAL:HG21	1:A:47:LEU:HD23	0.67	1.63	7	3
1:A:63:ALA:CB	1:A:73:VAL:HG22	0.67	2.20	9	10
1:A:62:ARG:O	1:A:73:VAL:HG13	0.66	1.91	10	10
1:A:24:GLU:C	1:A:25:ILE:HD12	0.66	2.15	9	1
1:A:118:MET:HE3	1:A:128:PHE:CD1	0.64	2.27	2	1
1:A:92:LEU:HD22	1:A:103:ILE:CD1	0.63	2.22	7	1
1:A:100:VAL:HG11	1:A:103:ILE:HD11	0.61	1.70	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:61:PHE:CE1	1:A:73:VAL:HG11	0.60	2.32	10	3
1:A:100:VAL:HG13	1:A:118:MET:HE2	0.58	1.74	5	1
1:A:38:VAL:HG23	1:A:49:GLY:N	0.58	2.13	8	1
1:A:24:GLU:O	1:A:25:ILE:HD13	0.58	1.98	6	2
1:A:44:GLY:CA	1:A:101:VAL:HG22	0.57	2.29	1	1
1:A:40:SER:HB2	1:A:47:LEU:HD23	0.57	1.77	9	4
1:A:100:VAL:HG21	1:A:103:ILE:HD11	0.57	1.77	9	3
1:A:25:ILE:CG2	1:A:36:ILE:HD11	0.56	2.30	8	6
1:A:51:MET:HE2	1:A:53:TYR:CE2	0.55	2.37	1	2
1:A:38:VAL:CG2	1:A:47:LEU:HD22	0.55	2.31	9	4
1:A:92:LEU:HD22	1:A:103:ILE:HD13	0.55	1.77	7	1
1:A:6:VAL:HG22	1:A:21:GLY:O	0.54	2.02	6	1
1:A:101:VAL:CG2	1:A:121:ALA:HB2	0.53	2.33	4	9
1:A:25:ILE:HG22	1:A:33:VAL:HG11	0.53	1.80	3	1
1:A:25:ILE:HD12	1:A:25:ILE:N	0.53	2.19	9	4
1:A:36:ILE:CG1	1:A:105:VAL:HG22	0.53	2.33	7	1
1:A:25:ILE:HG21	1:A:36:ILE:HD13	0.52	1.81	2	1
1:A:63:ALA:HB2	1:A:73:VAL:HG22	0.51	1.81	9	4
1:A:38:VAL:HG21	1:A:47:LEU:HB3	0.51	1.82	8	1
1:A:61:PHE:CD1	1:A:73:VAL:HG11	0.51	2.40	10	4
1:A:6:VAL:HG11	1:A:128:PHE:CE1	0.51	2.40	1	1
1:A:38:VAL:HG23	1:A:48:ASN:C	0.51	2.31	8	1
1:A:36:ILE:HG13	1:A:105:VAL:HG22	0.50	1.82	7	2
1:A:6:VAL:HG21	1:A:128:PHE:CE1	0.50	2.42	3	2
1:A:6:VAL:HG22	1:A:130:GLY:CA	0.50	2.37	3	2
1:A:54:ALA:HB1	1:A:110:ASP:OD1	0.49	2.07	2	1
1:A:92:LEU:HD21	1:A:103:ILE:HD11	0.49	1.85	5	1
1:A:33:VAL:HG23	1:A:51:MET:HE3	0.49	1.83	10	2
1:A:65:LEU:HD13	1:A:71:TYR:CZ	0.49	2.42	5	1
1:A:51:MET:HE1	1:A:75:ASN:OD1	0.48	2.08	2	1
1:A:32:ASN:O	1:A:34:VAL:HG23	0.48	2.08	8	3
1:A:8:ASN:ND2	1:A:126:ILE:HD12	0.48	2.24	7	1
1:A:51:MET:HE3	1:A:61:PHE:CD1	0.48	2.44	3	1
1:A:33:VAL:HG22	1:A:35:ALA:H	0.48	1.69	10	1
1:A:100:VAL:O	1:A:119:THR:O	0.48	2.32	1	5
1:A:2:ALA:HB3	1:A:4:TYR:CE1	0.47	2.43	5	1
1:A:92:LEU:CD2	1:A:103:ILE:HD11	0.47	2.39	5	2
1:A:100:VAL:HG11	1:A:103:ILE:CG1	0.47	2.38	4	2
1:A:2:ALA:HB3	1:A:4:TYR:HE1	0.47	1.70	5	1
1:A:102:ALA:HB3	1:A:119:THR:HB	0.46	1.87	1	1
1:A:33:VAL:C	1:A:34:VAL:HG23	0.46	2.35	8	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:3:LEU:O	1:A:133:THR:HG22	0.46	2.11	2	3
1:A:33:VAL:HG22	1:A:51:MET:HE1	0.45	1.88	1	1
1:A:34:VAL:HG12	1:A:35:ALA:N	0.45	2.26	5	1
1:A:92:LEU:HD23	1:A:103:ILE:HD11	0.45	1.88	4	1
1:A:65:LEU:HD11	1:A:68:ASN:O	0.45	2.12	7	1
1:A:4:TYR:CD1	1:A:25:ILE:HD12	0.45	2.46	4	1
1:A:65:LEU:HD12	1:A:71:TYR:CE2	0.45	2.46	7	1
1:A:33:VAL:HG13	1:A:51:MET:HE3	0.45	1.88	1	1
1:A:65:LEU:HD12	1:A:71:TYR:CZ	0.45	2.47	2	2
1:A:47:LEU:N	1:A:47:LEU:HD22	0.44	2.26	10	1
1:A:101:VAL:HG12	1:A:102:ALA:N	0.44	2.26	6	1
1:A:38:VAL:HG11	1:A:61:PHE:CD2	0.44	2.48	2	1
1:A:38:VAL:HG22	1:A:39:GLU:N	0.44	2.28	8	1
1:A:33:VAL:O	1:A:35:ALA:N	0.44	2.51	3	1
1:A:33:VAL:HG13	1:A:34:VAL:N	0.44	2.28	10	1
1:A:34:VAL:O	1:A:114:LEU:HD23	0.44	2.12	8	2
1:A:36:ILE:HD12	1:A:103:ILE:HG21	0.44	1.90	7	1
1:A:49:GLY:O	1:A:61:PHE:HB3	0.43	2.13	7	4
1:A:34:VAL:O	1:A:35:ALA:HB2	0.43	2.13	10	1
1:A:6:VAL:N	1:A:21:GLY:O	0.43	2.51	6	3
1:A:61:PHE:CD2	1:A:61:PHE:C	0.43	2.97	5	2
1:A:25:ILE:O	1:A:26:GLY:C	0.43	2.61	9	1
1:A:100:VAL:HG23	1:A:101:VAL:N	0.43	2.29	1	1
1:A:51:MET:HE1	1:A:75:ASN:ND2	0.43	2.28	6	1
1:A:100:VAL:O	1:A:102:ALA:N	0.42	2.52	3	3
1:A:113:THR:HG23	1:A:113:THR:O	0.42	2.14	3	6
1:A:100:VAL:C	1:A:101:VAL:HG23	0.42	2.39	4	2
1:A:33:VAL:O	1:A:52:THR:O	0.42	2.38	3	2
1:A:46:THR:O	1:A:46:THR:HG22	0.42	2.15	9	1
1:A:33:VAL:O	1:A:34:VAL:HG12	0.41	2.14	10	1
1:A:120:TYR:CD1	1:A:126:ILE:HD11	0.41	2.50	1	1
1:A:100:VAL:HG12	1:A:101:VAL:N	0.41	2.30	2	1
1:A:5:ASN:OD1	1:A:133:THR:HG21	0.41	2.16	9	1
1:A:6:VAL:HG12	1:A:7:GLU:N	0.40	2.31	8	1
1:A:132:LEU:C	1:A:132:LEU:HD23	0.40	2.41	7	1
1:A:52:THR:HG23	1:A:57:GLY:C	0.40	2.41	6	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	112/133 (84%)	102±2 (91±2%)	6±2 (5±2%)	4±1 (3±1%)	5	35
All	All	1120/1330 (84%)	1022 (91%)	61 (5%)	37 (3%)	5	35

All 7 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	46	THR	10
1	A	112	GLN	10
1	A	34	VAL	5
1	A	101	VAL	5
1	A	26	GLY	5
1	A	67	GLY	1
1	A	35	ALA	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	88/95 (93%)	80±2 (91±3%)	8±2 (9±3%)	12	58
All	All	880/950 (93%)	804 (91%)	76 (9%)	12	58

All 26 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	59	ILE	10
1	A	114	LEU	9
1	A	34	VAL	7

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Mol	Chain	Res	Type	Models (Total)
1	A	38	VAL	6
1	A	61	PHE	4
1	A	33	VAL	4
1	A	112	GLN	4
1	A	65	LEU	3
1	A	95	ARG	3
1	A	105	VAL	3
1	A	6	VAL	3
1	A	129	LYS	2
1	A	36	ILE	2
1	A	100	VAL	2
1	A	51	MET	2
1	A	69	ASN	2
1	A	107	SER	1
1	A	133	THR	1
1	A	92	LEU	1
1	A	28	ARG	1
1	A	42	ASP	1
1	A	43	ASP	1
1	A	25	ILE	1
1	A	48	ASN	1
1	A	66	LEU	1
1	A	45	GLN	1

6.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

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

Mol	Type	Chain	Res	Link	Bond lengths		
					Counts	RMSZ	#Z>2
1	4FW	A	23	1	15,16,17	0.80±0.08	0±0 (0±0%)

Mol	Type	Chain	Res	Link	Bond lengths		
					Counts	RMSZ	#Z>2
1	4FW	A	84	1	15,16,17	0.81±0.00	0±0 (0±0%)
1	4FW	A	10	1	15,16,17	0.81±0.01	0±0 (0±0%)
1	4FW	A	77	1	15,16,17	0.81±0.01	0±0 (0±0%)
1	4FW	A	17	1	15,16,17	0.81±0.01	0±0 (0±0%)
1	4FW	A	90	1	15,16,17	0.78±0.03	0±0 (0±0%)

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

Mol	Type	Chain	Res	Link	Bond angles		
					Counts	RMSZ	#Z>2
1	4FW	A	23	1	14,22,24	1.31±0.03	1±0 (9±3%)
1	4FW	A	84	1	14,22,24	1.31±0.01	1±0 (7±0%)
1	4FW	A	10	1	14,22,24	1.31±0.01	1±0 (7±0%)
1	4FW	A	77	1	14,22,24	1.30±0.01	1±0 (7±2%)
1	4FW	A	17	1	14,22,24	1.30±0.01	1±0 (7±0%)
1	4FW	A	90	1	14,22,24	1.38±0.06	1±0 (10±3%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the chemical component dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	4FW	A	10	1	-	0±0,5,6,8	0±0,2,2,2
1	4FW	A	77	1	-	0±0,5,6,8	0±0,2,2,2
1	4FW	A	90	1	-	0±0,5,6,8	0±0,2,2,2
1	4FW	A	23	1	-	0±0,5,6,8	0±0,2,2,2
1	4FW	A	84	1	-	0±0,5,6,8	0±0,2,2,2
1	4FW	A	17	1	-	0±0,5,6,8	0±0,2,2,2

There are no bond-length outliers.

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

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)	Models	
								Worst	Total
1	A	90	4FW	CE2-NE1-CD1	3.57	112.25	109.08	4	10
1	A	23	4FW	CE2-NE1-CD1	3.28	112.00	109.08	6	10
1	A	84	4FW	CE2-NE1-CD1	3.07	111.81	109.08	8	10
1	A	10	4FW	CE2-NE1-CD1	3.06	111.80	109.08	3	10
1	A	17	4FW	CE2-NE1-CD1	3.06	111.80	109.08	6	10
1	A	77	4FW	CE2-NE1-CD1	3.04	111.78	109.08	5	10
1	A	90	4FW	CZ2-CE2-NE1	2.30	134.42	130.74	10	4
1	A	23	4FW	CZ2-CE2-NE1	2.12	134.13	130.74	3	3
1	A	77	4FW	CZ2-CE2-NE1	2.00	133.94	130.74	6	1

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

6.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.6 Ligand geometry [i](#)

There are no ligands in this entry.

6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

7 Chemical shift validation

The completeness of assignment taking into account all chemical shift lists is 42% for the well-defined parts and 42% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chemical_shifts_1*

7.1.1 Bookkeeping

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

Total number of shifts	679
Number of shifts mapped to atoms	679
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	0

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction $\pm$ precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	126	0.30 ± 0.13	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	102	0.19 ± 0.16	None needed (< 0.5 ppm)
$^{13}\text{C}'$	126	0.48 ± 0.09	None needed (< 0.5 ppm)
^{15}N	126	0.27 ± 0.81	None needed (< 0.5 ppm)

7.1.3 Completeness of resonance assignments

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 42%, i.e. 579 atoms were assigned a chemical shift out of a possible 1381. 0 out of 15 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	340/586 (58%)	0/246 (0%)	228/228 (100%)	112/112 (100%)
Sidechain	218/732 (30%)	20/470 (4%)	198/231 (86%)	0/31 (0%)

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	Total	¹H	¹³C	¹⁵N
Aromatic	21/63 (33%)	1/30 (3%)	20/32 (62%)	0/1 (0%)
Overall	579/1381 (42%)	21/746 (3%)	446/491 (91%)	112/144 (78%)

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

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 42%, i.e. 628 atoms were assigned a chemical shift out of a possible 1480. 0 out of 15 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹H	¹³C	¹⁵N
Backbone	374/646 (58%)	0/272 (0%)	252/252 (100%)	122/122 (100%)
Sidechain	233/771 (30%)	23/496 (5%)	210/244 (86%)	0/31 (0%)
Aromatic	21/63 (33%)	1/30 (3%)	20/32 (62%)	0/1 (0%)
Overall	628/1480 (42%)	24/798 (3%)	482/528 (91%)	122/154 (79%)

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

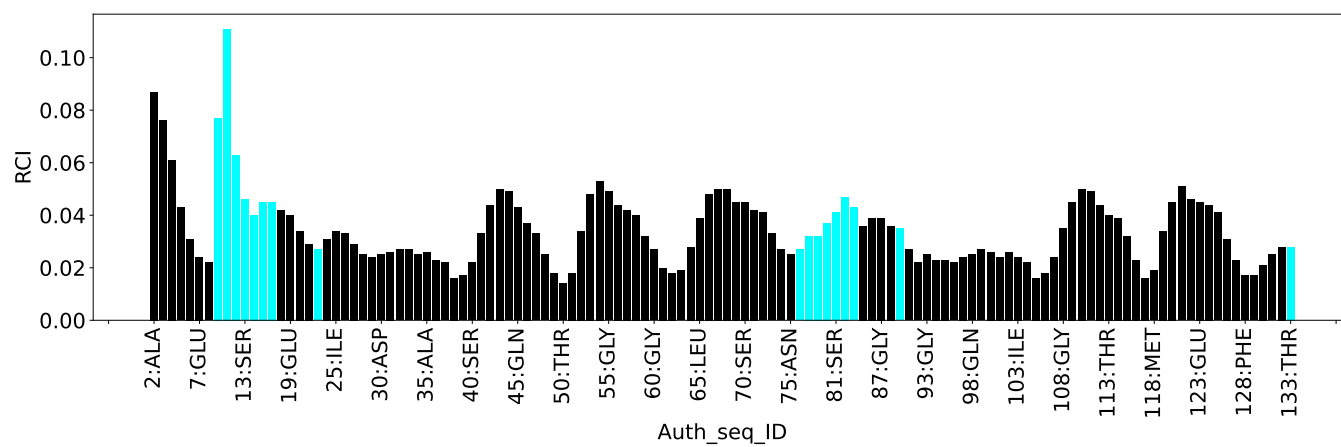
7.1.4 Statistically unusual chemical shifts [i](#)

There are no statistically unusual chemical shifts.

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

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

Random coil index (RCI) for chain A:



8 NMR restraints analysis

8.1 Conformationally restricting restraints

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

Description	Value
Total distance restraints	5545
Intra-residue ($ i-j =0$)	673
Sequential ($ i-j =1$)	1264
Medium range ($ i-j >1$ and $ i-j <5$)	976
Long range ($ i-j \geq 5$)	2632
Inter-chain	0
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	204
Number of unmapped restraints	0
Number of restraints per residue	43.2
Number of long range restraints per residue ¹	19.8

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

8.2 Residual restraint violations

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

8.2.1 Average number of distance violations per model

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

Bins (Å)	Average number of violations per model	Max (Å)
0.1-0.2 (Small)	67.5	0.2
0.2-0.5 (Medium)	33.0	0.5
>0.5 (Large)	1.5	1.01

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)	33.8	9.96
10.0-20.0 (Medium)	2.7	19.69
>20.0 (Large)	2.9	27.6

9 Distance violation analysis ⓘ

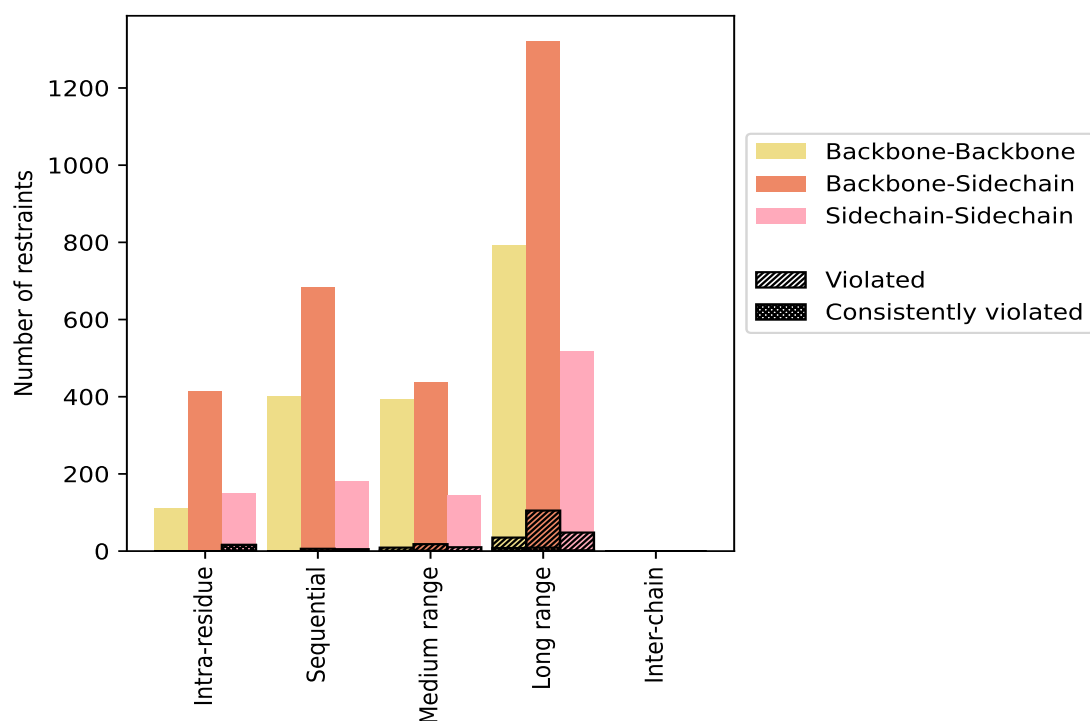
9.1 Summary of distance violations ⓘ

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

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue (i-j =0)	673	12.1	16	2.4	0.3	16	2.4	0.3
Backbone-Backbone	111	2.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	413	7.4	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	149	2.7	16	10.7	0.3	16	10.7	0.3
Sequential (i-j =1)	1264	22.8	11	0.9	0.2	0	0.0	0.0
Backbone-Backbone	400	7.2	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	684	12.3	6	0.9	0.1	0	0.0	0.0
Sidechain-Sidechain	180	3.2	5	2.8	0.1	0	0.0	0.0
Medium range (i-j >1 & i-j <5)	976	17.6	37	3.8	0.7	2	0.2	0.0
Backbone-Backbone	394	7.1	9	2.3	0.2	1	0.3	0.0
Backbone-Sidechain	437	7.9	18	4.1	0.3	1	0.2	0.0
Sidechain-Sidechain	145	2.6	10	6.9	0.2	0	0.0	0.0
Long range (i-j ≥5)	2632	47.5	188	7.1	3.4	19	0.7	0.3
Backbone-Backbone	793	14.3	35	4.4	0.6	8	1.0	0.1
Backbone-Sidechain	1321	23.8	105	7.9	1.9	9	0.7	0.2
Sidechain-Sidechain	518	9.3	48	9.3	0.9	2	0.4	0.0
Inter-chain	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Hydrogen bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	5545	100.0	252	4.5	4.5	37	0.7	0.7
Backbone-Backbone	1698	30.6	44	2.6	0.8	9	0.5	0.2
Backbone-Sidechain	2855	51.5	129	4.5	2.3	10	0.4	0.2
Sidechain-Sidechain	992	17.9	79	8.0	1.4	18	1.8	0.3

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

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



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

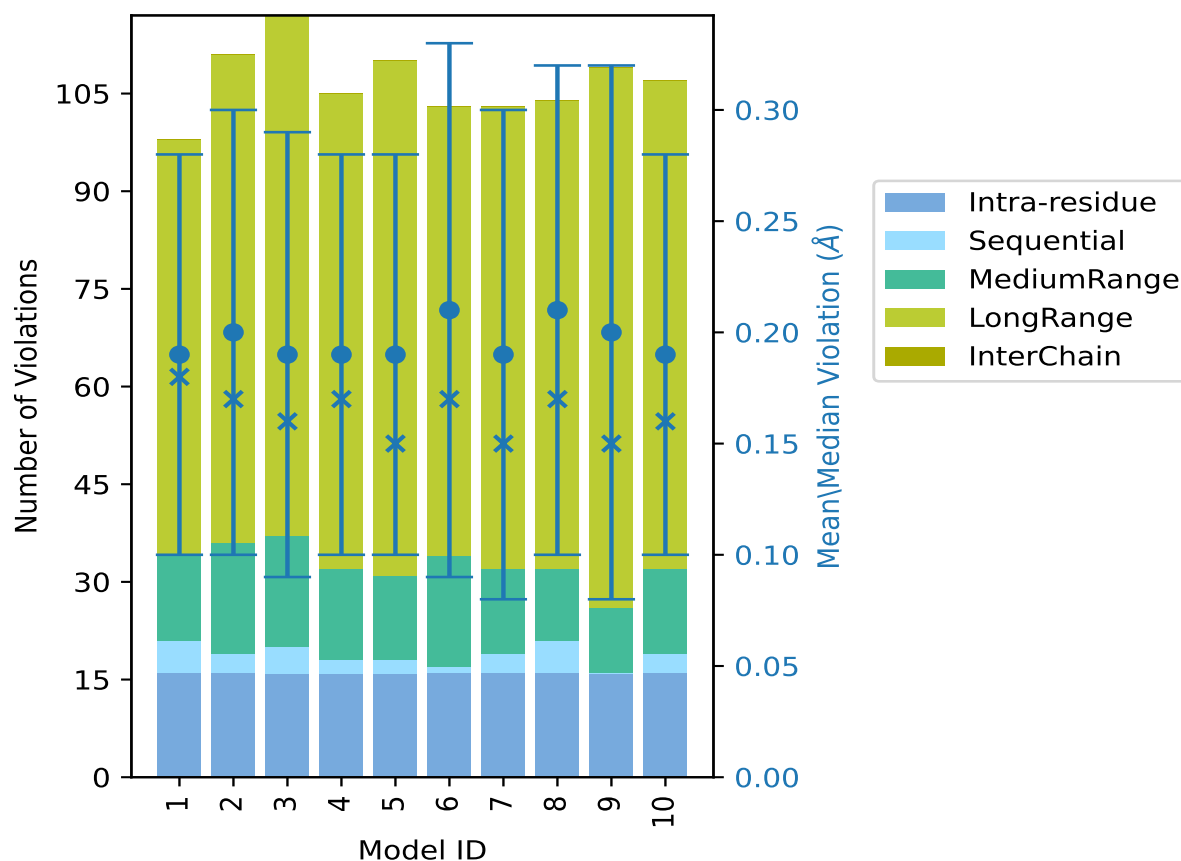
9.2 Distance violation statistics for each model [i](#)

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

Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
1	16	5	13	64	0	98	0.19	0.49	0.09	0.18
2	16	3	17	75	0	111	0.2	0.72	0.1	0.17
3	16	4	17	80	0	117	0.19	0.65	0.1	0.16
4	16	2	14	73	0	105	0.19	0.63	0.09	0.17
5	16	2	13	79	0	110	0.19	0.58	0.09	0.15
6	16	1	17	69	0	103	0.21	0.71	0.12	0.17
7	16	3	13	71	0	103	0.19	0.94	0.11	0.15
8	16	5	11	72	0	104	0.21	0.73	0.11	0.17
9	16	0	10	83	0	109	0.2	1.01	0.12	0.15
10	16	3	13	75	0	107	0.19	0.54	0.09	0.16

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

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



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

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

Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 5293(IR:657, SQ:1253, MR:939, LR:2444, IC:0) restraints are not violated in the ensemble.

Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
0	5	11	57	0	73	1	10.0
0	3	4	27	0	34	2	20.0
0	1	6	24	0	31	3	30.0

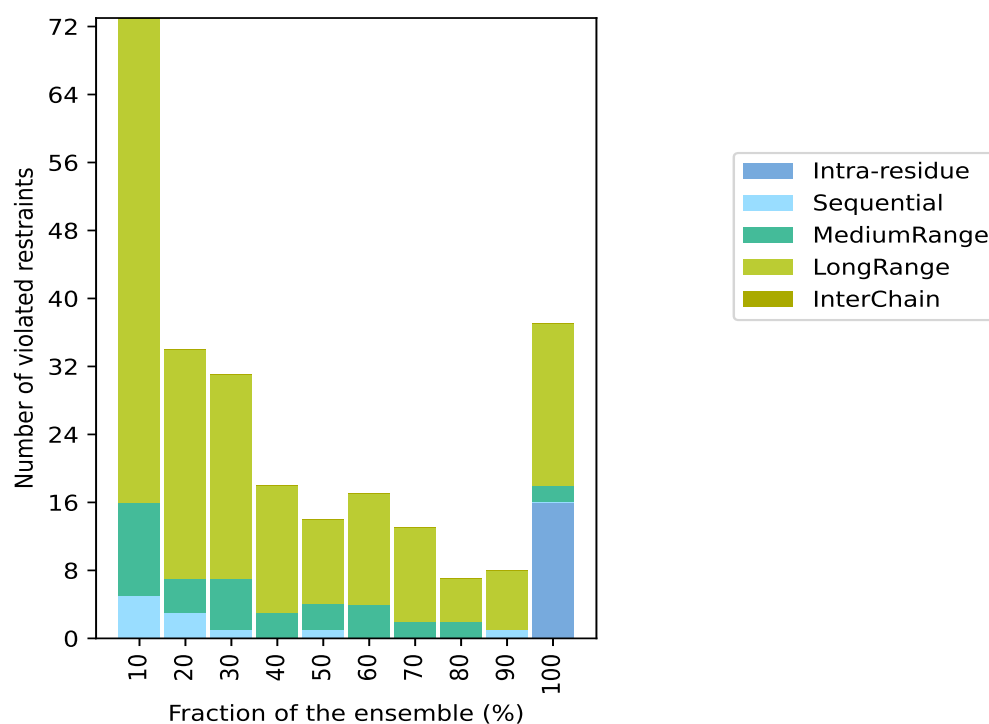
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Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
0	0	3	15	0	18	4	40.0
0	1	3	10	0	14	5	50.0
0	0	4	13	0	17	6	60.0
0	0	2	11	0	13	7	70.0
0	0	2	5	0	7	8	80.0
0	1	0	7	0	8	9	90.0
16	0	2	19	0	37	10	100.0

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

9.3.1 Bar graph : Distance violation statistics for the ensemble ⓘ

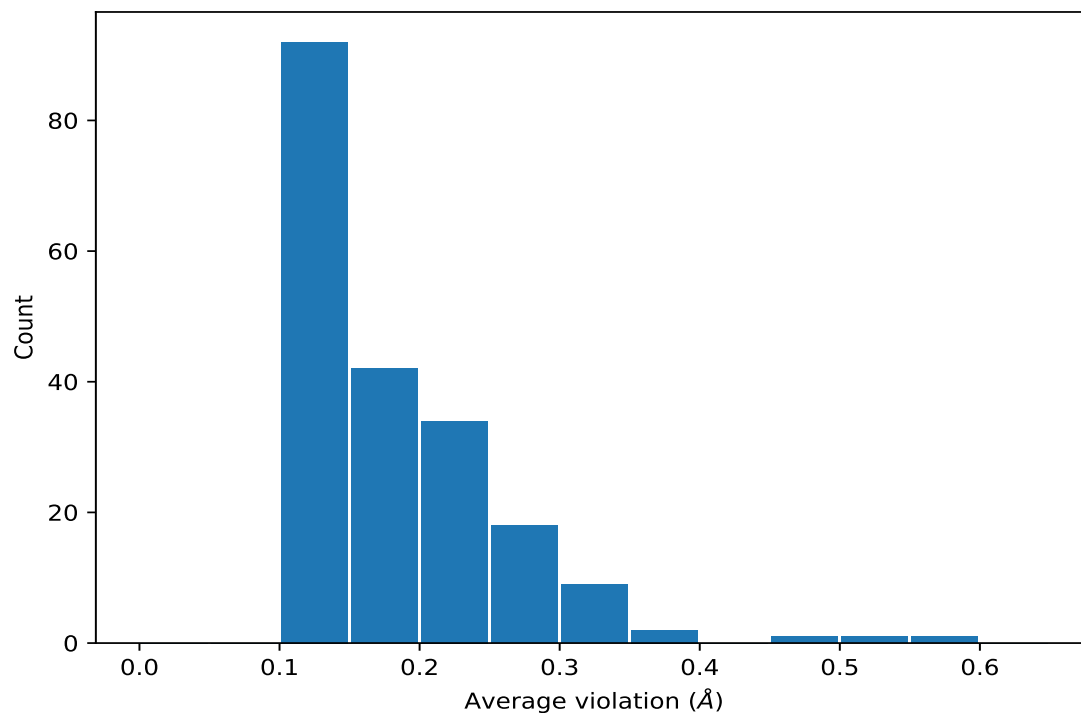


9.4 Most violated distance restraints in the ensemble ⓘ

9.4.1 Histogram : Distribution of mean distance violations ⓘ

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

in the ensemble



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

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

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,3035)	1:87:A:GLY:CA	1:26:A:GLY:C	10	0.58	0.18	0.6
(1,4307)	1:90:A:4FW:CB	1:63:A:ALA:CB	10	0.52	0.22	0.52
(1,1819)	1:43:A:ASP:CA	1:100:A:VAL:C	10	0.45	0.05	0.45
(1,2555)	1:93:A:GLY:CA	1:98:A:GLN:C	10	0.35	0.13	0.32
(1,5366)	1:66:A:LEU:CA	1:45:A:GLN:CD	10	0.35	0.06	0.34
(1,4743)	1:19:A:GLU:C	1:6:A:VAL:CB	10	0.33	0.09	0.36
(1,1316)	1:87:A:GLY:CA	1:75:A:ASN:CA	10	0.32	0.04	0.33
(1,1152)	1:108:A:GLY:CA	1:113:A:THR:C	10	0.31	0.02	0.32
(1,4559)	1:61:A:PHE:CA	1:48:A:ASN:CG	10	0.31	0.1	0.28
(1,1875)	1:74:A:GLU:CA	1:63:A:ALA:CB	10	0.3	0.09	0.28
(1,195)	1:87:A:GLY:CA	1:72:A:GLU:C	10	0.26	0.04	0.26
(1,4159)	1:47:A:LEU:CA	1:42:A:ASP:CG	10	0.26	0.05	0.26
(1,2601)	1:20:A:GLY:CA	1:8:A:ASN:C	10	0.26	0.05	0.29
(1,4134)	1:99:A:ASN:CA	1:92:A:LEU:C	10	0.25	0.06	0.24
(1,1881)	1:124:A:GLY:CA	1:126:A:ILE:CD1	10	0.23	0.06	0.22

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,4049)	1:125:A:PRO:CB	1:102:A:ALA:CB	10	0.2	0.03	0.2
(1,1481)	1:47:A:LEU:CB	1:100:A:VAL:C	10	0.19	0.05	0.17
(1,187)	1:114:A:LEU:CA	1:111:A:GLY:CA	10	0.18	0.01	0.18
(1,4046)	1:46:A:THR:CG2	1:64:A:THR:C	10	0.16	0.03	0.16
(1,536)	1:86:A:SER:CA	1:73:A:VAL:CB	10	0.16	0.03	0.16
(1,4722)	1:114:A:LEU:CA	1:109:A:ASP:CG	10	0.14	0.03	0.14
(1,675)	1:100:A:VAL:CB	1:100:A:VAL:CG1	10	0.13	0.0	0.13
(1,675)	1:100:A:VAL:CB	1:100:A:VAL:CG2	10	0.13	0.0	0.13
(1,755)	1:100:A:VAL:CB	1:100:A:VAL:CG1	10	0.13	0.0	0.13
(1,755)	1:100:A:VAL:CB	1:100:A:VAL:CG2	10	0.13	0.0	0.13
(1,551)	1:34:A:VAL:CB	1:34:A:VAL:CG1	10	0.13	0.0	0.13
(1,551)	1:34:A:VAL:CB	1:34:A:VAL:CG2	10	0.13	0.0	0.13
(1,741)	1:101:A:VAL:CB	1:101:A:VAL:CG1	10	0.13	0.0	0.13
(1,741)	1:101:A:VAL:CB	1:101:A:VAL:CG2	10	0.13	0.0	0.13
(1,1421)	1:101:A:VAL:CB	1:101:A:VAL:CG1	10	0.13	0.0	0.13
(1,1421)	1:101:A:VAL:CB	1:101:A:VAL:CG2	10	0.13	0.0	0.13
(1,1486)	1:38:A:VAL:CB	1:38:A:VAL:CG1	10	0.13	0.0	0.13
(1,1486)	1:38:A:VAL:CB	1:38:A:VAL:CG2	10	0.13	0.0	0.13
(1,2362)	1:34:A:VAL:CB	1:34:A:VAL:CG1	10	0.13	0.0	0.13
(1,2362)	1:34:A:VAL:CB	1:34:A:VAL:CG2	10	0.13	0.0	0.13
(1,3014)	1:38:A:VAL:CB	1:38:A:VAL:CG1	10	0.13	0.0	0.13
(1,3014)	1:38:A:VAL:CB	1:38:A:VAL:CG2	10	0.13	0.0	0.13
(1,3572)	1:105:A:VAL:CB	1:105:A:VAL:CG1	10	0.13	0.0	0.13
(1,3572)	1:105:A:VAL:CB	1:105:A:VAL:CG2	10	0.13	0.0	0.13
(1,4900)	1:105:A:VAL:CB	1:105:A:VAL:CG1	10	0.13	0.0	0.13
(1,4900)	1:105:A:VAL:CB	1:105:A:VAL:CG2	10	0.13	0.0	0.13
(1,3712)	1:6:A:VAL:CB	1:6:A:VAL:CG1	10	0.13	0.01	0.13
(1,3712)	1:6:A:VAL:CB	1:6:A:VAL:CG2	10	0.13	0.01	0.13
(1,3930)	1:33:A:VAL:CB	1:33:A:VAL:CG1	10	0.13	0.0	0.13
(1,3930)	1:33:A:VAL:CB	1:33:A:VAL:CG2	10	0.13	0.0	0.13
(1,4561)	1:33:A:VAL:CB	1:33:A:VAL:CG1	10	0.13	0.0	0.13
(1,4561)	1:33:A:VAL:CB	1:33:A:VAL:CG2	10	0.13	0.0	0.13
(1,3846)	1:73:A:VAL:CB	1:73:A:VAL:CG1	10	0.12	0.0	0.12
(1,3846)	1:73:A:VAL:CB	1:73:A:VAL:CG2	10	0.12	0.0	0.12
(1,4432)	1:73:A:VAL:CB	1:73:A:VAL:CG1	10	0.12	0.0	0.12
(1,4432)	1:73:A:VAL:CB	1:73:A:VAL:CG2	10	0.12	0.0	0.12
(1,4913)	1:71:A:TYR:CG	1:71:A:TYR:CD1	10	0.1	0.0	0.1
(1,2324)	1:19:A:GLU:C	1:94:A:SER:CB	9	0.37	0.05	0.39
(1,707)	1:90:A:4FW:CB	1:71:A:TYR:CE1	9	0.31	0.12	0.29
(1,4634)	1:7:A:GLU:CA	1:128:A:PHE:CB	9	0.22	0.04	0.24
(1,3544)	1:46:A:THR:C	1:45:A:GLN:CD	9	0.22	0.02	0.22
(1,4206)	1:20:A:GLY:CA	1:8:A:ASN:CA	9	0.21	0.04	0.2

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,3215)	1:114:A:LEU:CB	1:33:A:VAL:C	9	0.2	0.03	0.21
(1,2744)	1:112:A:GLN:CB	1:132:A:LEU:C	9	0.18	0.04	0.18
(1,751)	1:113:A:THR:CA	1:106:A:GLU:C	9	0.17	0.04	0.15
(1,3684)	1:58:A:PRO:CB	1:35:A:ALA:CB	8	0.21	0.04	0.22
(1,3849)	1:48:A:ASN:CB	1:63:A:ALA:C	8	0.19	0.04	0.2
(1,3755)	1:53:A:TYR:CZ	1:28:A:ARG:C	8	0.17	0.03	0.18
(1,2128)	1:126:A:ILE:CB	1:120:A:TYR:CD2	8	0.17	0.07	0.16
(1,4721)	1:67:A:GLY:CA	1:70:A:SER:CA	8	0.16	0.02	0.15
(1,3202)	1:75:A:ASN:CB	1:61:A:PHE:C	8	0.13	0.02	0.14
(1,2265)	1:127:A:GLY:CA	1:125:A:PRO:CB	8	0.12	0.02	0.12
(1,5261)	1:90:A:4FW:CA	1:25:A:ILE:CD1	7	0.37	0.08	0.39
(1,882)	1:114:A:LEU:CB	1:25:A:ILE:CG2	7	0.32	0.06	0.34
(1,3953)	1:20:A:GLY:C	1:93:A:GLY:CA	7	0.26	0.13	0.19
(1,3617)	1:4:A:TYR:CB	1:22:A:GLN:CB	7	0.25	0.07	0.23
(1,4862)	1:38:A:VAL:C	1:48:A:ASN:CG	7	0.22	0.02	0.23
(1,2178)	1:20:A:GLY:CA	1:6:A:VAL:CB	7	0.22	0.08	0.22
(1,5187)	1:44:A:GLY:CA	1:65:A:LEU:CG	7	0.18	0.07	0.19
(1,3122)	1:38:A:VAL:CA	1:48:A:ASN:CG	7	0.18	0.03	0.18
(1,3792)	1:73:A:VAL:CB	1:92:A:LEU:CD1	7	0.17	0.03	0.16
(1,1310)	1:2:A:ALA:C	1:32:A:ASN:CG	7	0.15	0.02	0.15
(1,4750)	1:91:A:ILE:CB	1:93:A:GLY:C	7	0.15	0.03	0.13
(1,3670)	1:119:A:THR:CA	1:123:A:GLU:CG	7	0.14	0.03	0.14
(1,587)	1:114:A:LEU:CA	1:4:A:TYR:CG	7	0.14	0.02	0.13
(1,395)	1:23:A:4FW:CB	1:25:A:ILE:CG2	6	0.27	0.1	0.26
(1,227)	1:27:A:SER:CA	1:33:A:VAL:CG1	6	0.24	0.06	0.24
(1,227)	1:27:A:SER:CA	1:33:A:VAL:CG2	6	0.24	0.06	0.24
(1,3952)	1:37:A:ASN:CA	1:48:A:ASN:C	6	0.23	0.09	0.22
(1,170)	1:92:A:LEU:CD1	1:24:A:GLU:C	6	0.23	0.05	0.2
(1,4011)	1:59:A:ILE:CG1	1:61:A:PHE:CD1	6	0.2	0.08	0.2
(1,4847)	1:36:A:ILE:CB	1:114:A:LEU:CG	6	0.2	0.07	0.18
(1,673)	1:59:A:ILE:CB	1:53:A:TYR:CE2	6	0.19	0.04	0.2
(1,4856)	1:56:A:GLU:CA	1:34:A:VAL:CG1	6	0.18	0.04	0.19
(1,4856)	1:56:A:GLU:CA	1:34:A:VAL:CG2	6	0.18	0.04	0.19
(1,3857)	1:36:A:ILE:CA	1:61:A:PHE:CD1	6	0.18	0.03	0.18
(1,4426)	1:73:A:VAL:CA	1:90:A:4FW:CB	6	0.17	0.02	0.16
(1,4270)	1:106:A:GLU:CG	1:115:A:ASN:C	6	0.16	0.03	0.16
(1,1364)	1:115:A:ASN:CB	1:130:A:GLY:C	6	0.15	0.04	0.15
(1,3264)	1:69:A:ASN:CA	1:66:A:LEU:C	6	0.15	0.06	0.13
(1,4297)	1:61:A:PHE:CA	1:38:A:VAL:CB	6	0.14	0.03	0.12
(1,4535)	1:47:A:LEU:CB	1:40:A:SER:C	6	0.13	0.04	0.12
(1,3292)	1:107:A:SER:CA	1:115:A:ASN:C	6	0.13	0.03	0.12
(1,976)	1:67:A:GLY:CA	1:70:A:SER:CB	6	0.13	0.03	0.12

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,887)	1:92:A:LEU:CD1	1:36:A:ILE:CG2	5	0.26	0.06	0.23
(1,2994)	1:103:A:ILE:CA	1:128:A:PHE:CD1	5	0.24	0.05	0.26
(1,400)	1:117:A:THR:CA	1:103:A:ILE:CB	5	0.2	0.04	0.21
(1,3972)	1:56:A:GLU:CB	1:53:A:TYR:CD2	5	0.2	0.02	0.2
(1,3175)	1:89:A:ASN:CA	1:91:A:ILE:CG1	5	0.19	0.07	0.15
(1,4096)	1:32:A:ASN:CA	1:29:A:SER:C	5	0.18	0.05	0.16
(1,4689)	1:8:A:ASN:CB	1:128:A:PHE:C	5	0.16	0.03	0.17
(1,432)	1:92:A:LEU:CD1	1:61:A:PHE:CD1	5	0.16	0.04	0.14
(1,4291)	1:71:A:TYR:CA	1:72:A:GLU:CD	5	0.15	0.02	0.15
(1,5306)	1:36:A:ILE:CA	1:52:A:THR:C	5	0.14	0.02	0.15
(1,1161)	1:65:A:LEU:CB	1:46:A:THR:C	5	0.14	0.01	0.15
(1,4597)	1:36:A:ILE:CA	1:103:A:ILE:CG1	5	0.14	0.02	0.13
(1,2831)	1:89:A:ASN:CA	1:24:A:GLU:CB	5	0.13	0.02	0.14
(1,4302)	1:113:A:THR:CB	1:107:A:SER:CA	5	0.13	0.02	0.14
(1,983)	1:63:A:ALA:CA	1:92:A:LEU:CD1	4	0.29	0.04	0.28
(1,5180)	1:49:A:GLY:CA	1:47:A:LEU:CG	4	0.25	0.13	0.23
(1,4643)	1:40:A:SER:C	1:47:A:LEU:C	4	0.22	0.04	0.24
(1,814)	1:24:A:GLU:CA	1:92:A:LEU:CG	4	0.21	0.1	0.2
(1,414)	1:6:A:VAL:CB	1:129:A:LYS:CG	4	0.2	0.05	0.19
(1,4246)	1:34:A:VAL:CA	1:54:A:ALA:C	4	0.2	0.03	0.19
(1,2070)	1:89:A:ASN:C	1:27:A:SER:CA	4	0.2	0.06	0.17
(1,4305)	1:46:A:THR:C	1:43:A:ASP:C	4	0.18	0.05	0.17
(1,1979)	1:39:A:GLU:CB	1:47:A:LEU:CG	4	0.16	0.04	0.15
(1,2641)	1:33:A:VAL:CB	1:111:A:GLY:C	4	0.15	0.03	0.15
(1,3298)	1:89:A:ASN:CB	1:66:A:LEU:CG	4	0.15	0.03	0.16
(1,1565)	1:101:A:VAL:CA	1:121:A:ALA:C	4	0.15	0.04	0.14
(1,819)	1:133:A:THR:CB	1:2:A:ALA:C	4	0.14	0.03	0.14
(1,290)	1:34:A:VAL:CA	1:106:A:GLU:CG	4	0.13	0.01	0.13
(1,1822)	1:38:A:VAL:CB	1:36:A:ILE:CG1	4	0.13	0.03	0.13
(1,757)	1:8:A:ASN:CA	1:129:A:LYS:C	4	0.12	0.01	0.12
(1,3008)	1:74:A:GLU:CA	1:61:A:PHE:CB	4	0.12	0.01	0.12
(1,5002)	1:63:A:ALA:CB	1:46:A:THR:CG2	4	0.12	0.01	0.12
(1,3170)	1:23:A:4FW:CB	1:5:A:ASN:C	3	0.33	0.05	0.34
(1,2552)	1:119:A:THR:CB	1:100:A:VAL:CG1	3	0.29	0.01	0.29
(1,2552)	1:119:A:THR:CB	1:100:A:VAL:CG2	3	0.29	0.01	0.29
(1,4526)	1:92:A:LEU:CG	1:25:A:ILE:CD1	3	0.29	0.04	0.29
(1,1054)	1:27:A:SER:CB	1:28:A:ARG:CD	3	0.25	0.03	0.26
(1,251)	1:130:A:GLY:CA	1:25:A:ILE:CD1	3	0.24	0.09	0.25
(1,3438)	1:26:A:GLY:CA	1:28:A:ARG:C	3	0.24	0.04	0.22
(1,2602)	1:25:A:ILE:CG1	1:6:A:VAL:CG1	3	0.23	0.07	0.19
(1,2602)	1:25:A:ILE:CG1	1:6:A:VAL:CG2	3	0.23	0.07	0.19
(1,2518)	1:50:A:THR:CA	1:36:A:ILE:CB	3	0.23	0.01	0.22

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,3774)	1:19:A:GLU:CB	1:21:A:GLY:C	3	0.22	0.04	0.23
(1,1399)	1:20:A:GLY:C	1:22:A:GLN:CD	3	0.22	0.06	0.24
(1,1351)	1:24:A:GLU:CG	1:91:A:ILE:CG2	3	0.2	0.09	0.14
(1,1741)	1:87:A:GLY:C	1:26:A:GLY:CA	3	0.2	0.03	0.21
(1,3610)	1:128:A:PHE:CA	1:105:A:VAL:CB	3	0.18	0.03	0.18
(1,4924)	1:3:A:LEU:CA	1:22:A:GLN:CB	3	0.16	0.03	0.17
(1,3525)	1:61:A:PHE:CD1	1:51:A:MET:C	3	0.16	0.02	0.16
(1,4552)	1:23:A:4FW:CA	1:91:A:ILE:CD1	3	0.16	0.04	0.13
(1,3057)	1:71:A:TYR:CE1	1:100:A:VAL:C	3	0.15	0.06	0.12
(1,3187)	1:69:A:ASN:CA	1:93:A:GLY:CA	3	0.15	0.04	0.13
(1,107)	1:128:A:PHE:CB	1:8:A:ASN:C	3	0.15	0.03	0.15
(1,1300)	1:111:A:GLY:CA	1:114:A:LEU:CB	3	0.14	0.04	0.12
(1,4316)	1:92:A:LEU:CD1	1:36:A:ILE:CD1	3	0.14	0.04	0.14
(1,2461)	1:63:A:ALA:CA	1:74:A:GLU:CB	3	0.14	0.02	0.13
(1,2142)	1:87:A:GLY:C	1:72:A:GLU:CG	3	0.13	0.03	0.13
(1,4508)	1:50:A:THR:CG2	1:38:A:VAL:CG1	3	0.13	0.03	0.12
(1,4508)	1:50:A:THR:CG2	1:38:A:VAL:CG2	3	0.13	0.03	0.12
(1,1921)	1:56:A:GLU:CB	1:59:A:ILE:CG1	3	0.13	0.03	0.11
(1,1049)	1:101:A:VAL:CA	1:39:A:GLU:CG	3	0.12	0.01	0.13
(1,998)	1:119:A:THR:CB	1:121:A:ALA:C	3	0.12	0.01	0.11
(1,5439)	1:76:A:GLN:CA	1:59:A:ILE:CD1	3	0.12	0.02	0.11
(1,3245)	1:128:A:PHE:CB	1:115:A:ASN:CB	3	0.11	0.02	0.1
(1,2010)	1:73:A:VAL:CA	1:90:A:4FW:CA	3	0.11	0.01	0.12
(1,4817)	1:86:A:SER:C	1:73:A:VAL:CB	3	0.11	0.01	0.11
(1,5382)	1:40:A:SER:C	1:39:A:GLU:CD	2	0.3	0.01	0.3
(1,213)	1:58:A:PRO:CD	1:59:A:ILE:CD1	2	0.29	0.02	0.29
(1,1258)	1:107:A:SER:C	1:106:A:GLU:CD	2	0.26	0.02	0.26
(1,2274)	1:3:A:LEU:CA	1:22:A:GLN:CG	2	0.22	0.02	0.22
(1,3810)	1:90:A:4FW:CA	1:25:A:ILE:CG1	2	0.2	0.01	0.2
(1,3210)	1:26:A:GLY:CA	1:28:A:ARG:CG	2	0.18	0.08	0.18
(1,801)	1:5:A:ASN:CA	1:23:A:4FW:CB	2	0.18	0.02	0.18
(1,947)	1:75:A:ASN:CA	1:51:A:MET:CG	2	0.18	0.02	0.18
(1,4902)	1:36:A:ILE:CG2	1:104:A:ASN:C	2	0.18	0.02	0.18
(1,708)	1:92:A:LEU:CB	1:25:A:ILE:CG1	2	0.17	0.02	0.17
(1,2251)	1:93:A:GLY:C	1:22:A:GLN:C	2	0.17	0.04	0.17
(1,4032)	1:102:A:ALA:CA	1:47:A:LEU:CB	2	0.16	0.04	0.16
(1,2147)	1:101:A:VAL:CA	1:120:A:TYR:CB	2	0.16	0.06	0.16
(1,1001)	1:8:A:ASN:CB	1:128:A:PHE:CD1	2	0.16	0.04	0.16
(1,4112)	1:40:A:SER:CB	1:100:A:VAL:CG1	2	0.16	0.02	0.16
(1,4112)	1:40:A:SER:CB	1:100:A:VAL:CG2	2	0.16	0.02	0.16
(1,4654)	1:25:A:ILE:CA	1:92:A:LEU:CG	2	0.16	0.05	0.16
(1,5135)	1:126:A:ILE:CG1	1:128:A:PHE:CD1	2	0.16	0.02	0.16

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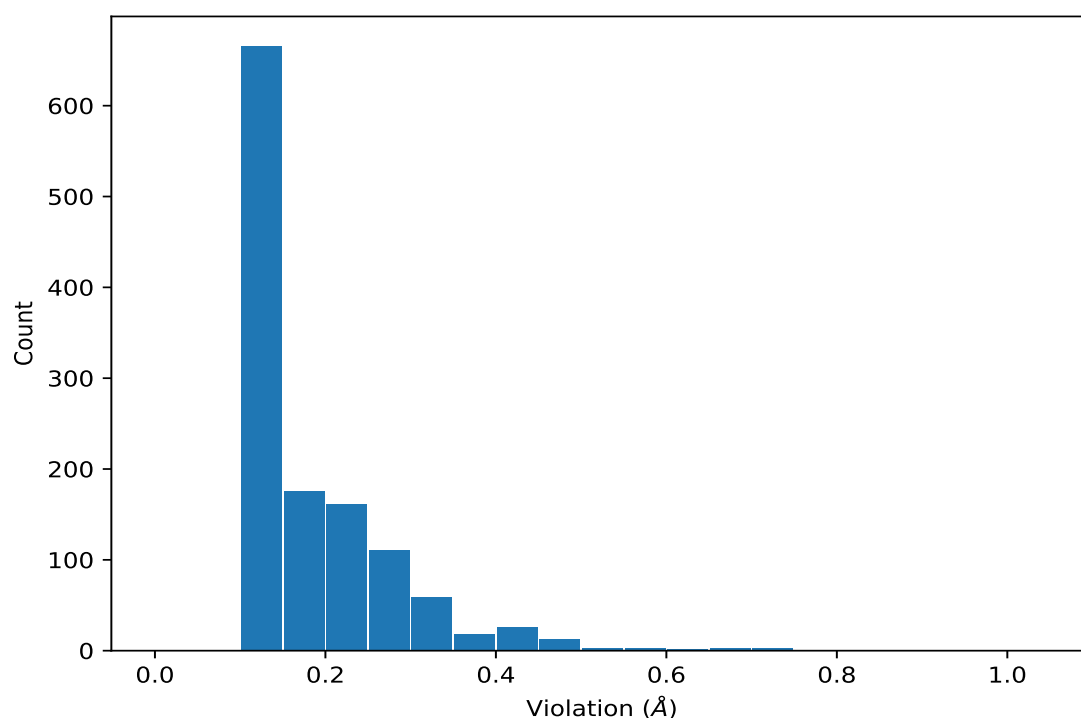
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,5101)	1:51:A:MET:CB	1:25:A:ILE:CG2	2	0.15	0.0	0.15
(1,219)	1:92:A:LEU:CG	1:25:A:ILE:CG2	2	0.14	0.0	0.14
(1,2987)	1:36:A:ILE:CG1	1:50:A:THR:C	2	0.14	0.01	0.14
(1,1971)	1:114:A:LEU:CB	1:36:A:ILE:CG1	2	0.14	0.02	0.14
(1,2883)	1:25:A:ILE:CG1	1:4:A:TYR:C	2	0.14	0.04	0.14
(1,1387)	1:8:A:ASN:CB	1:17:A:4FW:CB	2	0.12	0.02	0.12
(1,1759)	1:74:A:GLU:CA	1:72:A:GLU:CD	2	0.12	0.02	0.12
(1,3903)	1:20:A:GLY:C	1:7:A:GLU:CB	2	0.12	0.02	0.12
(1,4254)	1:47:A:LEU:CB	1:39:A:GLU:CB	2	0.12	0.02	0.12
(1,1178)	1:59:A:ILE:CB	1:50:A:THR:CG2	2	0.12	0.0	0.12
(1,1582)	1:106:A:GLU:CB	1:34:A:VAL:CB	2	0.12	0.02	0.12
(1,5151)	1:33:A:VAL:CA	1:110:A:ASP:C	2	0.12	0.02	0.12
(1,451)	1:90:A:4FW:CA	1:72:A:GLU:C	2	0.12	0.0	0.12
(1,836)	1:113:A:THR:C	1:109:A:ASP:C	2	0.12	0.0	0.12
(1,1168)	1:25:A:ILE:CB	1:92:A:LEU:CG	2	0.11	0.0	0.11
(1,4143)	1:101:A:VAL:C	1:39:A:GLU:CD	2	0.11	0.0	0.11
(1,5320)	1:104:A:ASN:CA	1:36:A:ILE:CG2	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)
(1,4307)	1:90:A:4FW:CB	1:63:A:ALA:CB	9	1.01
(1,3035)	1:87:A:GLY:CA	1:26:A:GLY:C	7	0.94
(1,4307)	1:90:A:4FW:CB	1:63:A:ALA:CB	8	0.73
(1,3035)	1:87:A:GLY:CA	1:26:A:GLY:C	2	0.72
(1,3884)	1:22:A:GLN:CB	1:91:A:ILE:CG2	6	0.71
(1,2555)	1:93:A:GLY:CA	1:98:A:GLN:C	6	0.68
(1,3035)	1:87:A:GLY:CA	1:26:A:GLY:C	6	0.67
(1,3035)	1:87:A:GLY:CA	1:26:A:GLY:C	3	0.65
(1,3035)	1:87:A:GLY:CA	1:26:A:GLY:C	4	0.63
(1,4307)	1:90:A:4FW:CB	1:63:A:ALA:CB	6	0.61
(1,3035)	1:87:A:GLY:CA	1:26:A:GLY:C	5	0.58
(1,4307)	1:90:A:4FW:CB	1:63:A:ALA:CB	3	0.56
(1,1819)	1:43:A:ASP:CA	1:100:A:VAL:C	7	0.55
(1,4307)	1:90:A:4FW:CB	1:63:A:ALA:CB	10	0.54
(1,4307)	1:90:A:4FW:CB	1:63:A:ALA:CB	5	0.51
(1,707)	1:90:A:4FW:CB	1:71:A:TYR:CE1	6	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3035)	1:87:A:GLY:CA	1:26:A:GLY:C	1	0.49
(1,1819)	1:43:A:ASP:CA	1:100:A:VAL:C	3	0.49
(1,707)	1:90:A:4FW:CB	1:71:A:TYR:CE1	9	0.48
(1,5261)	1:90:A:4FW:CA	1:25:A:ILE:CD1	1	0.47
(1,3035)	1:87:A:GLY:CA	1:26:A:GLY:C	10	0.47
(1,4559)	1:61:A:PHE:CA	1:48:A:ASN:CG	8	0.46
(1,1819)	1:43:A:ASP:CA	1:100:A:VAL:C	5	0.46
(1,1819)	1:43:A:ASP:CA	1:100:A:VAL:C	8	0.46
(1,4743)	1:19:A:GLU:C	1:6:A:VAL:CB	8	0.45
(1,2973)	1:56:A:GLU:CG	1:54:A:ALA:CB	1	0.45
(1,2324)	1:19:A:GLU:C	1:94:A:SER:CB	8	0.45
(1,1819)	1:43:A:ASP:CA	1:100:A:VAL:C	9	0.45
(1,1819)	1:43:A:ASP:CA	1:100:A:VAL:C	10	0.45
(1,5180)	1:49:A:GLY:CA	1:47:A:LEU:CG	2	0.44
(1,4307)	1:90:A:4FW:CB	1:63:A:ALA:CB	7	0.44
(1,3953)	1:20:A:GLY:C	1:93:A:GLY:CA	3	0.44
(1,1875)	1:74:A:GLU:CA	1:63:A:ALA:CB	5	0.44
(1,5366)	1:66:A:LEU:CA	1:45:A:GLN:CD	7	0.43
(1,5366)	1:66:A:LEU:CA	1:45:A:GLN:CD	9	0.43
(1,5261)	1:90:A:4FW:CA	1:25:A:ILE:CD1	5	0.43
(1,4743)	1:19:A:GLU:C	1:6:A:VAL:CB	3	0.43
(1,1819)	1:43:A:ASP:CA	1:100:A:VAL:C	2	0.43
(1,5366)	1:66:A:LEU:CA	1:45:A:GLN:CD	4	0.42
(1,3953)	1:20:A:GLY:C	1:93:A:GLY:CA	8	0.42
(1,1819)	1:43:A:ASP:CA	1:100:A:VAL:C	6	0.42
(1,395)	1:23:A:4FW:CB	1:25:A:ILE:CG2	8	0.42
(1,4559)	1:61:A:PHE:CA	1:48:A:ASN:CG	9	0.41
(1,4559)	1:61:A:PHE:CA	1:48:A:ASN:CG	10	0.41
(1,3617)	1:4:A:TYR:CB	1:22:A:GLN:CB	9	0.41
(1,2324)	1:19:A:GLU:C	1:94:A:SER:CB	3	0.41
(1,1875)	1:74:A:GLU:CA	1:63:A:ALA:CB	6	0.41
(1,1819)	1:43:A:ASP:CA	1:100:A:VAL:C	4	0.41
(1,882)	1:114:A:LEU:CB	1:25:A:ILE:CG2	9	0.41
(1,5261)	1:90:A:4FW:CA	1:25:A:ILE:CD1	2	0.4
(1,2555)	1:93:A:GLY:CA	1:98:A:GLN:C	2	0.4
(1,2555)	1:93:A:GLY:CA	1:98:A:GLN:C	7	0.4
(1,2324)	1:19:A:GLU:C	1:94:A:SER:CB	1	0.4
(1,2324)	1:19:A:GLU:C	1:94:A:SER:CB	2	0.4
(1,707)	1:90:A:4FW:CB	1:71:A:TYR:CE1	8	0.4
(1,5261)	1:90:A:4FW:CA	1:25:A:ILE:CD1	4	0.39
(1,4743)	1:19:A:GLU:C	1:6:A:VAL:CB	2	0.39
(1,2324)	1:19:A:GLU:C	1:94:A:SER:CB	4	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1875)	1:74:A:GLU:CA	1:63:A:ALA:CB	3	0.39
(1,1316)	1:87:A:GLY:CA	1:75:A:ASN:CA	9	0.39
(1,4743)	1:19:A:GLU:C	1:6:A:VAL:CB	6	0.38
(1,4743)	1:19:A:GLU:C	1:6:A:VAL:CB	10	0.38
(1,4559)	1:61:A:PHE:CA	1:48:A:ASN:CG	6	0.38
(1,3170)	1:23:A:4FW:CB	1:5:A:ASN:C	3	0.38
(1,2555)	1:93:A:GLY:CA	1:98:A:GLN:C	5	0.38
(1,5366)	1:66:A:LEU:CA	1:45:A:GLN:CD	10	0.37
(1,2324)	1:19:A:GLU:C	1:94:A:SER:CB	9	0.37
(1,2178)	1:20:A:GLY:CA	1:6:A:VAL:CB	2	0.37
(1,1819)	1:43:A:ASP:CA	1:100:A:VAL:C	1	0.37
(1,1316)	1:87:A:GLY:CA	1:75:A:ASN:CA	6	0.37
(1,882)	1:114:A:LEU:CB	1:25:A:ILE:CG2	2	0.37
(1,5261)	1:90:A:4FW:CA	1:25:A:ILE:CD1	7	0.36
(1,1316)	1:87:A:GLY:CA	1:75:A:ASN:CA	3	0.36
(1,5366)	1:66:A:LEU:CA	1:45:A:GLN:CD	3	0.35
(1,4526)	1:92:A:LEU:CG	1:25:A:ILE:CD1	5	0.35
(1,4011)	1:59:A:ILE:CG1	1:61:A:PHE:CD1	8	0.35
(1,2324)	1:19:A:GLU:C	1:94:A:SER:CB	7	0.35
(1,2128)	1:126:A:ILE:CB	1:120:A:TYR:CD2	8	0.35
(1,983)	1:63:A:ALA:CA	1:92:A:LEU:CD1	4	0.35
(1,887)	1:92:A:LEU:CD1	1:36:A:ILE:CG2	7	0.35
(1,882)	1:114:A:LEU:CB	1:25:A:ILE:CG2	1	0.35
(1,195)	1:87:A:GLY:CA	1:72:A:GLU:C	10	0.35
(1,5366)	1:66:A:LEU:CA	1:45:A:GLN:CD	8	0.34
(1,5261)	1:90:A:4FW:CA	1:25:A:ILE:CD1	10	0.34
(1,4743)	1:19:A:GLU:C	1:6:A:VAL:CB	1	0.34
(1,4159)	1:47:A:LEU:CA	1:42:A:ASP:CG	7	0.34
(1,4134)	1:99:A:ASN:CA	1:92:A:LEU:C	4	0.34
(1,3953)	1:20:A:GLY:C	1:93:A:GLY:CA	6	0.34
(1,3952)	1:37:A:ASN:CA	1:48:A:ASN:C	10	0.34
(1,3170)	1:23:A:4FW:CB	1:5:A:ASN:C	8	0.34
(1,3035)	1:87:A:GLY:CA	1:26:A:GLY:C	8	0.34
(1,2555)	1:93:A:GLY:CA	1:98:A:GLN:C	4	0.34
(1,1316)	1:87:A:GLY:CA	1:75:A:ASN:CA	8	0.34
(1,1152)	1:108:A:GLY:CA	1:113:A:THR:C	1	0.34
(1,882)	1:114:A:LEU:CB	1:25:A:ILE:CG2	4	0.34
(1,395)	1:23:A:4FW:CB	1:25:A:ILE:CG2	6	0.34
(1,251)	1:130:A:GLY:CA	1:25:A:ILE:CD1	8	0.34
(1,227)	1:27:A:SER:CA	1:33:A:VAL:CG1	4	0.34
(1,227)	1:27:A:SER:CA	1:33:A:VAL:CG2	4	0.34
(1,5366)	1:66:A:LEU:CA	1:45:A:GLN:CD	2	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4159)	1:47:A:LEU:CA	1:42:A:ASP:CG	3	0.33
(1,2602)	1:25:A:ILE:CG1	1:6:A:VAL:CG1	2	0.33
(1,2602)	1:25:A:ILE:CG1	1:6:A:VAL:CG2	2	0.33
(1,2601)	1:20:A:GLY:CA	1:8:A:ASN:C	4	0.33
(1,1351)	1:24:A:GLU:CG	1:91:A:ILE:CG2	3	0.33
(1,1316)	1:87:A:GLY:CA	1:75:A:ASN:CA	4	0.33
(1,1316)	1:87:A:GLY:CA	1:75:A:ASN:CA	5	0.33
(1,1152)	1:108:A:GLY:CA	1:113:A:THR:C	5	0.33
(1,1152)	1:108:A:GLY:CA	1:113:A:THR:C	7	0.33
(1,814)	1:24:A:GLU:CA	1:92:A:LEU:CG	6	0.33
(1,170)	1:92:A:LEU:CD1	1:24:A:GLU:C	1	0.33
(1,4847)	1:36:A:ILE:CB	1:114:A:LEU:CG	7	0.32
(1,3035)	1:87:A:GLY:CA	1:26:A:GLY:C	9	0.32
(1,2601)	1:20:A:GLY:CA	1:8:A:ASN:C	6	0.32
(1,1152)	1:108:A:GLY:CA	1:113:A:THR:C	4	0.32
(1,1152)	1:108:A:GLY:CA	1:113:A:THR:C	8	0.32
(1,1152)	1:108:A:GLY:CA	1:113:A:THR:C	9	0.32
(1,1152)	1:108:A:GLY:CA	1:113:A:THR:C	10	0.32
(1,195)	1:87:A:GLY:CA	1:72:A:GLU:C	7	0.32
(1,5382)	1:40:A:SER:C	1:39:A:GLU:CD	1	0.31
(1,4307)	1:90:A:4FW:CB	1:63:A:ALA:CB	4	0.31
(1,4134)	1:99:A:ASN:CA	1:92:A:LEU:C	5	0.31
(1,3127)	1:23:A:4FW:CA	1:92:A:LEU:CG	6	0.31
(1,2555)	1:93:A:GLY:CA	1:98:A:GLN:C	10	0.31
(1,2552)	1:119:A:THR:CB	1:100:A:VAL:CG1	9	0.31
(1,2552)	1:119:A:THR:CB	1:100:A:VAL:CG2	9	0.31
(1,1881)	1:124:A:GLY:CA	1:126:A:ILE:CD1	2	0.31
(1,1881)	1:124:A:GLY:CA	1:126:A:ILE:CD1	8	0.31
(1,1152)	1:108:A:GLY:CA	1:113:A:THR:C	6	0.31
(1,882)	1:114:A:LEU:CB	1:25:A:ILE:CG2	5	0.31
(1,395)	1:23:A:4FW:CB	1:25:A:ILE:CG2	3	0.31
(1,213)	1:58:A:PRO:CD	1:59:A:ILE:CD1	2	0.31
(1,5382)	1:40:A:SER:C	1:39:A:GLU:CD	7	0.3
(1,4206)	1:20:A:GLY:CA	1:8:A:ASN:CA	5	0.3
(1,4159)	1:47:A:LEU:CA	1:42:A:ASP:CG	1	0.3
(1,4134)	1:99:A:ASN:CA	1:92:A:LEU:C	1	0.3
(1,3952)	1:37:A:ASN:CA	1:48:A:ASN:C	6	0.3
(1,3952)	1:37:A:ASN:CA	1:48:A:ASN:C	9	0.3
(1,2601)	1:20:A:GLY:CA	1:8:A:ASN:C	3	0.3
(1,2601)	1:20:A:GLY:CA	1:8:A:ASN:C	7	0.3
(1,2555)	1:93:A:GLY:CA	1:98:A:GLN:C	1	0.3
(1,2555)	1:93:A:GLY:CA	1:98:A:GLN:C	9	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2324)	1:19:A:GLU:C	1:94:A:SER:CB	10	0.3
(1,2070)	1:89:A:ASN:C	1:27:A:SER:CA	2	0.3
(1,1875)	1:74:A:GLU:CA	1:63:A:ALA:CB	4	0.3
(1,1875)	1:74:A:GLU:CA	1:63:A:ALA:CB	10	0.3
(1,1481)	1:47:A:LEU:CB	1:100:A:VAL:C	8	0.3
(1,1152)	1:108:A:GLY:CA	1:113:A:THR:C	2	0.3
(1,707)	1:90:A:4FW:CB	1:71:A:TYR:CE1	3	0.3
(1,5366)	1:66:A:LEU:CA	1:45:A:GLN:CD	1	0.29
(1,4743)	1:19:A:GLU:C	1:6:A:VAL:CB	4	0.29
(1,4559)	1:61:A:PHE:CA	1:48:A:ASN:CG	3	0.29
(1,4526)	1:92:A:LEU:CG	1:25:A:ILE:CD1	2	0.29
(1,4159)	1:47:A:LEU:CA	1:42:A:ASP:CG	5	0.29
(1,4134)	1:99:A:ASN:CA	1:92:A:LEU:C	2	0.29
(1,3514)	1:126:A:ILE:CB	1:117:A:THR:CG2	2	0.29
(1,3438)	1:26:A:GLY:CA	1:28:A:ARG:C	6	0.29
(1,3264)	1:69:A:ASN:CA	1:66:A:LEU:C	5	0.29
(1,2601)	1:20:A:GLY:CA	1:8:A:ASN:C	5	0.29
(1,2552)	1:119:A:THR:CB	1:100:A:VAL:CG1	3	0.29
(1,2552)	1:119:A:THR:CB	1:100:A:VAL:CG2	3	0.29
(1,1258)	1:107:A:SER:C	1:106:A:GLU:CD	1	0.29
(1,887)	1:92:A:LEU:CD1	1:36:A:ILE:CG2	2	0.29
(1,707)	1:90:A:4FW:CB	1:71:A:TYR:CE1	5	0.29
(1,5366)	1:66:A:LEU:CA	1:45:A:GLN:CD	5	0.28
(1,5366)	1:66:A:LEU:CA	1:45:A:GLN:CD	6	0.28
(1,5180)	1:49:A:GLY:CA	1:47:A:LEU:CG	8	0.28
(1,4307)	1:90:A:4FW:CB	1:63:A:ALA:CB	2	0.28
(1,3175)	1:89:A:ASN:CA	1:91:A:ILE:CG1	8	0.28
(1,2994)	1:103:A:ILE:CA	1:128:A:PHE:CD1	9	0.28
(1,2994)	1:103:A:ILE:CA	1:128:A:PHE:CD1	10	0.28
(1,2850)	1:94:A:SER:CA	1:100:A:VAL:CG1	6	0.28
(1,2850)	1:94:A:SER:CA	1:100:A:VAL:CG2	6	0.28
(1,2601)	1:20:A:GLY:CA	1:8:A:ASN:C	9	0.28
(1,2552)	1:119:A:THR:CB	1:100:A:VAL:CG1	10	0.28
(1,2552)	1:119:A:THR:CB	1:100:A:VAL:CG2	10	0.28
(1,1881)	1:124:A:GLY:CA	1:126:A:ILE:CD1	5	0.28
(1,1316)	1:87:A:GLY:CA	1:75:A:ASN:CA	2	0.28
(1,1316)	1:87:A:GLY:CA	1:75:A:ASN:CA	7	0.28
(1,1054)	1:27:A:SER:CB	1:28:A:ARG:CD	7	0.28
(1,983)	1:63:A:ALA:CA	1:92:A:LEU:CD1	2	0.28
(1,983)	1:63:A:ALA:CA	1:92:A:LEU:CD1	6	0.28
(1,814)	1:24:A:GLU:CA	1:92:A:LEU:CG	4	0.28
(1,707)	1:90:A:4FW:CB	1:71:A:TYR:CE1	2	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,414)	1:6:A:VAL:CB	1:129:A:LYS:CG	10	0.28
(1,227)	1:27:A:SER:CA	1:33:A:VAL:CG1	2	0.28
(1,227)	1:27:A:SER:CA	1:33:A:VAL:CG2	2	0.28
(1,195)	1:87:A:GLY:CA	1:72:A:GLU:C	5	0.28
(1,5187)	1:44:A:GLY:CA	1:65:A:LEU:CG	9	0.27
(1,4559)	1:61:A:PHE:CA	1:48:A:ASN:CG	5	0.27
(1,4159)	1:47:A:LEU:CA	1:42:A:ASP:CG	4	0.27
(1,4134)	1:99:A:ASN:CA	1:92:A:LEU:C	10	0.27
(1,3774)	1:19:A:GLU:CB	1:21:A:GLY:C	5	0.27
(1,3684)	1:58:A:PRO:CB	1:35:A:ALA:CB	8	0.27
(1,3617)	1:4:A:TYR:CB	1:22:A:GLN:CB	6	0.27
(1,3215)	1:114:A:LEU:CB	1:33:A:VAL:C	2	0.27
(1,2324)	1:19:A:GLU:C	1:94:A:SER:CB	5	0.27
(1,1481)	1:47:A:LEU:CB	1:100:A:VAL:C	1	0.27
(1,1399)	1:20:A:GLY:C	1:22:A:GLN:CD	6	0.27
(1,1316)	1:87:A:GLY:CA	1:75:A:ASN:CA	1	0.27
(1,1316)	1:87:A:GLY:CA	1:75:A:ASN:CA	10	0.27
(1,882)	1:114:A:LEU:CB	1:25:A:ILE:CG2	10	0.27
(1,195)	1:87:A:GLY:CA	1:72:A:GLU:C	4	0.27
(1,170)	1:92:A:LEU:CD1	1:24:A:GLU:C	8	0.27
(1,5187)	1:44:A:GLY:CA	1:65:A:LEU:CG	10	0.26
(1,4862)	1:38:A:VAL:C	1:48:A:ASN:CG	1	0.26
(1,4743)	1:19:A:GLU:C	1:6:A:VAL:CB	5	0.26
(1,4634)	1:7:A:GLU:CA	1:128:A:PHE:CB	8	0.26
(1,4634)	1:7:A:GLU:CA	1:128:A:PHE:CB	9	0.26
(1,4159)	1:47:A:LEU:CA	1:42:A:ASP:CG	10	0.26
(1,3684)	1:58:A:PRO:CB	1:35:A:ALA:CB	7	0.26
(1,3544)	1:46:A:THR:C	1:45:A:GLN:CD	7	0.26
(1,3210)	1:26:A:GLY:CA	1:28:A:ARG:CG	3	0.26
(1,3175)	1:89:A:ASN:CA	1:91:A:ILE:CG1	9	0.26
(1,3170)	1:23:A:4FW:CB	1:5:A:ASN:C	6	0.26
(1,2994)	1:103:A:ILE:CA	1:128:A:PHE:CD1	1	0.26
(1,2744)	1:112:A:GLN:CB	1:132:A:LEU:C	7	0.26
(1,2178)	1:20:A:GLY:CA	1:6:A:VAL:CB	6	0.26
(1,1875)	1:74:A:GLU:CA	1:63:A:ALA:CB	2	0.26
(1,1875)	1:74:A:GLU:CA	1:63:A:ALA:CB	7	0.26
(1,1054)	1:27:A:SER:CB	1:28:A:ARG:CD	10	0.26
(1,673)	1:59:A:ILE:CB	1:53:A:TYR:CE2	4	0.26
(1,213)	1:58:A:PRO:CD	1:59:A:ILE:CD1	8	0.26
(1,195)	1:87:A:GLY:CA	1:72:A:GLU:C	1	0.26
(1,195)	1:87:A:GLY:CA	1:72:A:GLU:C	8	0.26
(1,4661)	1:38:A:VAL:CA	1:61:A:PHE:CB	8	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4643)	1:40:A:SER:C	1:47:A:LEU:C	6	0.25
(1,4643)	1:40:A:SER:C	1:47:A:LEU:C	9	0.25
(1,4634)	1:7:A:GLU:CA	1:128:A:PHE:CB	2	0.25
(1,4559)	1:61:A:PHE:CA	1:48:A:ASN:CG	1	0.25
(1,4305)	1:46:A:THR:C	1:43:A:ASP:C	6	0.25
(1,4246)	1:34:A:VAL:CA	1:54:A:ALA:C	8	0.25
(1,4206)	1:20:A:GLY:CA	1:8:A:ASN:CA	7	0.25
(1,4159)	1:47:A:LEU:CA	1:42:A:ASP:CG	9	0.25
(1,4049)	1:125:A:PRO:CB	1:102:A:ALA:CB	8	0.25
(1,3617)	1:4:A:TYR:CB	1:22:A:GLN:CB	3	0.25
(1,1875)	1:74:A:GLU:CA	1:63:A:ALA:CB	1	0.25
(1,1152)	1:108:A:GLY:CA	1:113:A:THR:C	3	0.25
(1,983)	1:63:A:ALA:CA	1:92:A:LEU:CD1	5	0.25
(1,400)	1:117:A:THR:CA	1:103:A:ILE:CB	1	0.25
(1,251)	1:130:A:GLY:CA	1:25:A:ILE:CD1	3	0.25
(1,227)	1:27:A:SER:CA	1:33:A:VAL:CG1	5	0.25
(1,227)	1:27:A:SER:CA	1:33:A:VAL:CG2	5	0.25
(1,4862)	1:38:A:VAL:C	1:48:A:ASN:CG	5	0.24
(1,4856)	1:56:A:GLU:CA	1:34:A:VAL:CG1	5	0.24
(1,4856)	1:56:A:GLU:CA	1:34:A:VAL:CG2	5	0.24
(1,4847)	1:36:A:ILE:CB	1:114:A:LEU:CG	8	0.24
(1,4643)	1:40:A:SER:C	1:47:A:LEU:C	10	0.24
(1,4634)	1:7:A:GLU:CA	1:128:A:PHE:CB	1	0.24
(1,4634)	1:7:A:GLU:CA	1:128:A:PHE:CB	3	0.24
(1,4526)	1:92:A:LEU:CG	1:25:A:ILE:CD1	7	0.24
(1,4307)	1:90:A:4FW:CB	1:63:A:ALA:CB	1	0.24
(1,4206)	1:20:A:GLY:CA	1:8:A:ASN:CA	4	0.24
(1,4159)	1:47:A:LEU:CA	1:42:A:ASP:CG	8	0.24
(1,4096)	1:32:A:ASN:CA	1:29:A:SER:C	1	0.24
(1,4096)	1:32:A:ASN:CA	1:29:A:SER:C	3	0.24
(1,3849)	1:48:A:ASN:CB	1:63:A:ALA:C	1	0.24
(1,3792)	1:73:A:VAL:CB	1:92:A:LEU:CD1	3	0.24
(1,3748)	1:90:A:4FW:CA	1:26:A:GLY:CA	10	0.24
(1,3684)	1:58:A:PRO:CB	1:35:A:ALA:CB	4	0.24
(1,3544)	1:46:A:THR:C	1:45:A:GLN:CD	6	0.24
(1,3122)	1:38:A:VAL:CA	1:48:A:ASN:CG	1	0.24
(1,3057)	1:71:A:TYR:CE1	1:100:A:VAL:C	9	0.24
(1,2994)	1:103:A:ILE:CA	1:128:A:PHE:CD1	4	0.24
(1,2518)	1:50:A:THR:CA	1:36:A:ILE:CB	4	0.24
(1,2274)	1:3:A:LEU:CA	1:22:A:GLN:CG	1	0.24
(1,2178)	1:20:A:GLY:CA	1:6:A:VAL:CB	3	0.24
(1,1881)	1:124:A:GLY:CA	1:126:A:ILE:CD1	9	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1399)	1:20:A:GLY:C	1:22:A:GLN:CD	3	0.24
(1,1258)	1:107:A:SER:C	1:106:A:GLU:CD	3	0.24
(1,751)	1:113:A:THR:CA	1:106:A:GLU:C	2	0.24
(1,195)	1:87:A:GLY:CA	1:72:A:GLU:C	2	0.24
(1,195)	1:87:A:GLY:CA	1:72:A:GLU:C	3	0.24
(1,195)	1:87:A:GLY:CA	1:72:A:GLU:C	9	0.24
(1,4862)	1:38:A:VAL:C	1:48:A:ASN:CG	4	0.23
(1,4862)	1:38:A:VAL:C	1:48:A:ASN:CG	7	0.23
(1,4847)	1:36:A:ILE:CB	1:114:A:LEU:CG	2	0.23
(1,4634)	1:7:A:GLU:CA	1:128:A:PHE:CB	4	0.23
(1,4634)	1:7:A:GLU:CA	1:128:A:PHE:CB	10	0.23
(1,4011)	1:59:A:ILE:CG1	1:61:A:PHE:CD1	9	0.23
(1,3972)	1:56:A:GLU:CB	1:53:A:TYR:CD2	9	0.23
(1,3857)	1:36:A:ILE:CA	1:61:A:PHE:CD1	3	0.23
(1,3849)	1:48:A:ASN:CB	1:63:A:ALA:C	3	0.23
(1,3774)	1:19:A:GLU:CB	1:21:A:GLY:C	4	0.23
(1,3684)	1:58:A:PRO:CB	1:35:A:ALA:CB	9	0.23
(1,3617)	1:4:A:TYR:CB	1:22:A:GLN:CB	8	0.23
(1,3544)	1:46:A:THR:C	1:45:A:GLN:CD	10	0.23
(1,2555)	1:93:A:GLY:CA	1:98:A:GLN:C	3	0.23
(1,1881)	1:124:A:GLY:CA	1:126:A:ILE:CD1	3	0.23
(1,1875)	1:74:A:GLU:CA	1:63:A:ALA:CB	8	0.23
(1,887)	1:92:A:LEU:CD1	1:36:A:ILE:CG2	6	0.23
(1,707)	1:90:A:4FW:CB	1:71:A:TYR:CE1	4	0.23
(1,227)	1:27:A:SER:CA	1:33:A:VAL:CG1	9	0.23
(1,227)	1:27:A:SER:CA	1:33:A:VAL:CG2	9	0.23
(1,4862)	1:38:A:VAL:C	1:48:A:ASN:CG	2	0.22
(1,4856)	1:56:A:GLU:CA	1:34:A:VAL:CG1	6	0.22
(1,4856)	1:56:A:GLU:CA	1:34:A:VAL:CG2	6	0.22
(1,4535)	1:47:A:LEU:CB	1:40:A:SER:C	10	0.22
(1,4134)	1:99:A:ASN:CA	1:92:A:LEU:C	6	0.22
(1,4134)	1:99:A:ASN:CA	1:92:A:LEU:C	7	0.22
(1,4049)	1:125:A:PRO:CB	1:102:A:ALA:CB	6	0.22
(1,4049)	1:125:A:PRO:CB	1:102:A:ALA:CB	7	0.22
(1,3849)	1:48:A:ASN:CB	1:63:A:ALA:C	7	0.22
(1,3617)	1:4:A:TYR:CB	1:22:A:GLN:CB	2	0.22
(1,3617)	1:4:A:TYR:CB	1:22:A:GLN:CB	10	0.22
(1,3544)	1:46:A:THR:C	1:45:A:GLN:CD	3	0.22
(1,3544)	1:46:A:THR:C	1:45:A:GLN:CD	4	0.22
(1,3438)	1:26:A:GLY:CA	1:28:A:ARG:C	2	0.22
(1,2744)	1:112:A:GLN:CB	1:132:A:LEU:C	2	0.22
(1,2518)	1:50:A:THR:CA	1:36:A:ILE:CB	5	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2518)	1:50:A:THR:CA	1:36:A:ILE:CB	10	0.22
(1,2178)	1:20:A:GLY:CA	1:6:A:VAL:CB	4	0.22
(1,2147)	1:101:A:VAL:CA	1:120:A:TYR:CB	1	0.22
(1,1881)	1:124:A:GLY:CA	1:126:A:ILE:CD1	10	0.22
(1,1741)	1:87:A:GLY:C	1:26:A:GLY:CA	6	0.22
(1,1364)	1:115:A:ASN:CB	1:130:A:GLY:C	2	0.22
(1,751)	1:113:A:THR:CA	1:106:A:GLU:C	6	0.22
(1,746)	1:129:A:LYS:CG	1:8:A:ASN:C	2	0.22
(1,673)	1:59:A:ILE:CB	1:53:A:TYR:CE2	9	0.22
(1,400)	1:117:A:THR:CA	1:103:A:ILE:CB	8	0.22
(1,5261)	1:90:A:4FW:CA	1:25:A:ILE:CD1	9	0.21
(1,4743)	1:19:A:GLU:C	1:6:A:VAL:CB	9	0.21
(1,4722)	1:114:A:LEU:CA	1:109:A:ASP:CG	6	0.21
(1,4559)	1:61:A:PHE:CA	1:48:A:ASN:CG	2	0.21
(1,4552)	1:23:A:4FW:CA	1:91:A:ILE:CD1	9	0.21
(1,4297)	1:61:A:PHE:CA	1:38:A:VAL:CB	10	0.21
(1,4206)	1:20:A:GLY:CA	1:8:A:ASN:CA	2	0.21
(1,4134)	1:99:A:ASN:CA	1:92:A:LEU:C	9	0.21
(1,4049)	1:125:A:PRO:CB	1:102:A:ALA:CB	5	0.21
(1,4049)	1:125:A:PRO:CB	1:102:A:ALA:CB	9	0.21
(1,4046)	1:46:A:THR:CG2	1:64:A:THR:C	10	0.21
(1,4032)	1:102:A:ALA:CA	1:47:A:LEU:CB	9	0.21
(1,4011)	1:59:A:ILE:CG1	1:61:A:PHE:CD1	6	0.21
(1,3972)	1:56:A:GLU:CB	1:53:A:TYR:CD2	3	0.21
(1,3857)	1:36:A:ILE:CA	1:61:A:PHE:CD1	8	0.21
(1,3755)	1:53:A:TYR:CZ	1:28:A:ARG:C	2	0.21
(1,3684)	1:58:A:PRO:CB	1:35:A:ALA:CB	3	0.21
(1,3610)	1:128:A:PHE:CA	1:105:A:VAL:CB	2	0.21
(1,3544)	1:46:A:THR:C	1:45:A:GLN:CD	2	0.21
(1,3544)	1:46:A:THR:C	1:45:A:GLN:CD	8	0.21
(1,3238)	1:6:A:VAL:CA	1:23:A:4FW:CB	3	0.21
(1,3215)	1:114:A:LEU:CB	1:33:A:VAL:C	4	0.21
(1,3215)	1:114:A:LEU:CB	1:33:A:VAL:C	5	0.21
(1,3215)	1:114:A:LEU:CB	1:33:A:VAL:C	7	0.21
(1,3215)	1:114:A:LEU:CB	1:33:A:VAL:C	10	0.21
(1,3187)	1:69:A:ASN:CA	1:93:A:GLY:CA	8	0.21
(1,2601)	1:20:A:GLY:CA	1:8:A:ASN:C	1	0.21
(1,2601)	1:20:A:GLY:CA	1:8:A:ASN:C	8	0.21
(1,2251)	1:93:A:GLY:C	1:22:A:GLN:C	6	0.21
(1,1741)	1:87:A:GLY:C	1:26:A:GLY:CA	3	0.21
(1,887)	1:92:A:LEU:CD1	1:36:A:ILE:CG2	5	0.21
(1,432)	1:92:A:LEU:CD1	1:61:A:PHE:CD1	4	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,400)	1:117:A:THR:CA	1:103:A:ILE:CB	5	0.21
(1,385)	1:52:A:THR:CB	1:33:A:VAL:CG1	3	0.21
(1,385)	1:52:A:THR:CB	1:33:A:VAL:CG2	3	0.21
(1,227)	1:27:A:SER:CA	1:33:A:VAL:CG1	10	0.21
(1,227)	1:27:A:SER:CA	1:33:A:VAL:CG2	10	0.21
(1,170)	1:92:A:LEU:CD1	1:24:A:GLU:C	9	0.21
(1,5187)	1:44:A:GLY:CA	1:65:A:LEU:CG	8	0.2
(1,4924)	1:3:A:LEU:CA	1:22:A:GLN:CB	3	0.2
(1,4902)	1:36:A:ILE:CG2	1:104:A:ASN:C	2	0.2
(1,4862)	1:38:A:VAL:C	1:48:A:ASN:CG	3	0.2
(1,4802)	1:52:A:THR:CA	1:53:A:TYR:CE2	2	0.2
(1,4750)	1:91:A:ILE:CB	1:93:A:GLY:C	3	0.2
(1,4721)	1:67:A:GLY:CA	1:70:A:SER:CA	10	0.2
(1,4654)	1:25:A:ILE:CA	1:92:A:LEU:CG	4	0.2
(1,4559)	1:61:A:PHE:CA	1:48:A:ASN:CG	4	0.2
(1,4426)	1:73:A:VAL:CA	1:90:A:4FW:CB	10	0.2
(1,4270)	1:106:A:GLU:CG	1:115:A:ASN:C	10	0.2
(1,4206)	1:20:A:GLY:CA	1:8:A:ASN:CA	6	0.2
(1,4206)	1:20:A:GLY:CA	1:8:A:ASN:CA	10	0.2
(1,4046)	1:46:A:THR:CG2	1:64:A:THR:C	4	0.2
(1,3972)	1:56:A:GLU:CB	1:53:A:TYR:CD2	6	0.2
(1,3849)	1:48:A:ASN:CB	1:63:A:ALA:C	2	0.2
(1,3810)	1:90:A:4FW:CA	1:25:A:ILE:CG1	8	0.2
(1,3755)	1:53:A:TYR:CZ	1:28:A:ARG:C	1	0.2
(1,3755)	1:53:A:TYR:CZ	1:28:A:ARG:C	4	0.2
(1,3670)	1:119:A:THR:CA	1:123:A:GLU:CG	1	0.2
(1,3544)	1:46:A:THR:C	1:45:A:GLN:CD	1	0.2
(1,3544)	1:46:A:THR:C	1:45:A:GLN:CD	5	0.2
(1,3438)	1:26:A:GLY:CA	1:28:A:ARG:C	3	0.2
(1,3215)	1:114:A:LEU:CB	1:33:A:VAL:C	3	0.2
(1,2641)	1:33:A:VAL:CB	1:111:A:GLY:C	3	0.2
(1,2601)	1:20:A:GLY:CA	1:8:A:ASN:C	10	0.2
(1,2205)	1:10:A:4FW:CB	1:125:A:PRO:C	8	0.2
(1,1979)	1:39:A:GLU:CB	1:47:A:LEU:CG	9	0.2
(1,1565)	1:101:A:VAL:CA	1:121:A:ALA:C	4	0.2
(1,1481)	1:47:A:LEU:CB	1:100:A:VAL:C	4	0.2
(1,1300)	1:111:A:GLY:CA	1:114:A:LEU:CB	8	0.2
(1,1054)	1:27:A:SER:CB	1:28:A:ARG:CD	8	0.2
(1,947)	1:75:A:ASN:CA	1:51:A:MET:CG	6	0.2
(1,887)	1:92:A:LEU:CD1	1:36:A:ILE:CG2	4	0.2
(1,882)	1:114:A:LEU:CB	1:25:A:ILE:CG2	7	0.2
(1,801)	1:5:A:ASN:CA	1:23:A:4FW:CB	8	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,751)	1:113:A:THR:CA	1:106:A:GLU:C	4	0.2
(1,673)	1:59:A:ILE:CB	1:53:A:TYR:CE2	7	0.2
(1,563)	1:36:A:ILE:CG1	1:61:A:PHE:CD1	2	0.2
(1,536)	1:86:A:SER:CA	1:73:A:VAL:CB	4	0.2
(1,536)	1:86:A:SER:CA	1:73:A:VAL:CB	10	0.2
(1,414)	1:6:A:VAL:CB	1:129:A:LYS:CG	5	0.2
(1,395)	1:23:A:4FW:CB	1:25:A:ILE:CG2	2	0.2
(1,187)	1:114:A:LEU:CA	1:111:A:GLY:CA	1	0.2
(1,187)	1:114:A:LEU:CA	1:111:A:GLY:CA	6	0.2
(1,170)	1:92:A:LEU:CD1	1:24:A:GLU:C	10	0.2
(1,5187)	1:44:A:GLY:CA	1:65:A:LEU:CG	1	0.19
(1,4856)	1:56:A:GLU:CA	1:34:A:VAL:CG1	2	0.19
(1,4856)	1:56:A:GLU:CA	1:34:A:VAL:CG2	2	0.19
(1,4856)	1:56:A:GLU:CA	1:34:A:VAL:CG1	10	0.19
(1,4856)	1:56:A:GLU:CA	1:34:A:VAL:CG2	10	0.19
(1,4760)	1:118:A:MET:CA	1:101:A:VAL:C	1	0.19
(1,4689)	1:8:A:ASN:CB	1:128:A:PHE:C	6	0.19
(1,4689)	1:8:A:ASN:CB	1:128:A:PHE:C	9	0.19
(1,4426)	1:73:A:VAL:CA	1:90:A:4FW:CB	3	0.19
(1,4316)	1:92:A:LEU:CD1	1:36:A:ILE:CD1	1	0.19
(1,4270)	1:106:A:GLU:CG	1:115:A:ASN:C	9	0.19
(1,4246)	1:34:A:VAL:CA	1:54:A:ALA:C	4	0.19
(1,4246)	1:34:A:VAL:CA	1:54:A:ALA:C	9	0.19
(1,4206)	1:20:A:GLY:CA	1:8:A:ASN:CA	1	0.19
(1,4206)	1:20:A:GLY:CA	1:8:A:ASN:CA	9	0.19
(1,4049)	1:125:A:PRO:CB	1:102:A:ALA:CB	2	0.19
(1,4046)	1:46:A:THR:CG2	1:64:A:THR:C	7	0.19
(1,4046)	1:46:A:THR:CG2	1:64:A:THR:C	8	0.19
(1,4011)	1:59:A:ILE:CG1	1:61:A:PHE:CD1	5	0.19
(1,3972)	1:56:A:GLU:CB	1:53:A:TYR:CD2	10	0.19
(1,3953)	1:20:A:GLY:C	1:93:A:GLY:CA	7	0.19
(1,3857)	1:36:A:ILE:CA	1:61:A:PHE:CD1	6	0.19
(1,3849)	1:48:A:ASN:CB	1:63:A:ALA:C	4	0.19
(1,3810)	1:90:A:4FW:CA	1:25:A:ILE:CG1	6	0.19
(1,3755)	1:53:A:TYR:CZ	1:28:A:ARG:C	9	0.19
(1,3684)	1:58:A:PRO:CB	1:35:A:ALA:CB	1	0.19
(1,3525)	1:61:A:PHE:CD1	1:51:A:MET:C	9	0.19
(1,3298)	1:89:A:ASN:CB	1:66:A:LEU:CG	2	0.19
(1,3215)	1:114:A:LEU:CB	1:33:A:VAL:C	1	0.19
(1,3122)	1:38:A:VAL:CA	1:48:A:ASN:CG	3	0.19
(1,2744)	1:112:A:GLN:CB	1:132:A:LEU:C	1	0.19
(1,2602)	1:25:A:ILE:CG1	1:6:A:VAL:CG1	5	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2602)	1:25:A:ILE:CG1	1:6:A:VAL:CG2	5	0.19
(1,2601)	1:20:A:GLY:CA	1:8:A:ASN:C	2	0.19
(1,2555)	1:93:A:GLY:CA	1:98:A:GLN:C	8	0.19
(1,2274)	1:3:A:LEU:CA	1:22:A:GLN:CG	4	0.19
(1,1481)	1:47:A:LEU:CB	1:100:A:VAL:C	6	0.19
(1,1301)	1:51:A:MET:CA	1:38:A:VAL:CG1	8	0.19
(1,1301)	1:51:A:MET:CA	1:38:A:VAL:CG2	8	0.19
(1,1001)	1:8:A:ASN:CB	1:128:A:PHE:CD1	7	0.19
(1,976)	1:67:A:GLY:CA	1:70:A:SER:CB	10	0.19
(1,751)	1:113:A:THR:CA	1:106:A:GLU:C	9	0.19
(1,708)	1:92:A:LEU:CB	1:25:A:ILE:CG1	5	0.19
(1,673)	1:59:A:ILE:CB	1:53:A:TYR:CE2	5	0.19
(1,536)	1:86:A:SER:CA	1:73:A:VAL:CB	9	0.19
(1,432)	1:92:A:LEU:CD1	1:61:A:PHE:CD1	8	0.19
(1,395)	1:23:A:4FW:CB	1:25:A:ILE:CG2	7	0.19
(1,195)	1:87:A:GLY:CA	1:72:A:GLU:C	6	0.19
(1,187)	1:114:A:LEU:CA	1:111:A:GLY:CA	8	0.19
(1,170)	1:92:A:LEU:CD1	1:24:A:GLU:C	7	0.19
(1,5135)	1:126:A:ILE:CG1	1:128:A:PHE:CD1	2	0.18
(1,4862)	1:38:A:VAL:C	1:48:A:ASN:CG	8	0.18
(1,4844)	1:122:A:GLY:CA	1:98:A:GLN:CB	4	0.18
(1,4750)	1:91:A:ILE:CB	1:93:A:GLY:C	10	0.18
(1,4721)	1:67:A:GLY:CA	1:70:A:SER:CA	3	0.18
(1,4634)	1:7:A:GLU:CA	1:128:A:PHE:CB	7	0.18
(1,4597)	1:36:A:ILE:CA	1:103:A:ILE:CG1	1	0.18
(1,4459)	1:40:A:SER:CA	1:100:A:VAL:C	7	0.18
(1,4426)	1:73:A:VAL:CA	1:90:A:4FW:CB	5	0.18
(1,4305)	1:46:A:THR:C	1:43:A:ASP:C	2	0.18
(1,4253)	1:27:A:SER:CA	1:24:A:GLU:CG	6	0.18
(1,4159)	1:47:A:LEU:CA	1:42:A:ASP:CG	2	0.18
(1,4159)	1:47:A:LEU:CA	1:42:A:ASP:CG	6	0.18
(1,4134)	1:99:A:ASN:CA	1:92:A:LEU:C	3	0.18
(1,4112)	1:40:A:SER:CB	1:100:A:VAL:CG1	4	0.18
(1,4112)	1:40:A:SER:CB	1:100:A:VAL:CG2	4	0.18
(1,4049)	1:125:A:PRO:CB	1:102:A:ALA:CB	3	0.18
(1,4049)	1:125:A:PRO:CB	1:102:A:ALA:CB	4	0.18
(1,3857)	1:36:A:ILE:CA	1:61:A:PHE:CD1	9	0.18
(1,3792)	1:73:A:VAL:CB	1:92:A:LEU:CD1	1	0.18
(1,3792)	1:73:A:VAL:CB	1:92:A:LEU:CD1	5	0.18
(1,3755)	1:53:A:TYR:CZ	1:28:A:ARG:C	10	0.18
(1,3667)	1:60:A:GLY:C	1:48:A:ASN:C	5	0.18
(1,3610)	1:128:A:PHE:CA	1:105:A:VAL:CB	7	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3292)	1:107:A:SER:CA	1:115:A:ASN:C	6	0.18
(1,3122)	1:38:A:VAL:CA	1:48:A:ASN:CG	4	0.18
(1,3122)	1:38:A:VAL:CA	1:48:A:ASN:CG	5	0.18
(1,2744)	1:112:A:GLN:CB	1:132:A:LEU:C	3	0.18
(1,2744)	1:112:A:GLN:CB	1:132:A:LEU:C	4	0.18
(1,2744)	1:112:A:GLN:CB	1:132:A:LEU:C	5	0.18
(1,2744)	1:112:A:GLN:CB	1:132:A:LEU:C	9	0.18
(1,2602)	1:25:A:ILE:CG1	1:6:A:VAL:CG1	7	0.18
(1,2602)	1:25:A:ILE:CG1	1:6:A:VAL:CG2	7	0.18
(1,2512)	1:98:A:GLN:CA	1:120:A:TYR:CZ	4	0.18
(1,2070)	1:89:A:ASN:C	1:27:A:SER:CA	1	0.18
(1,1979)	1:39:A:GLU:CB	1:47:A:LEU:CG	3	0.18
(1,1881)	1:124:A:GLY:CA	1:126:A:ILE:CD1	1	0.18
(1,1881)	1:124:A:GLY:CA	1:126:A:ILE:CD1	6	0.18
(1,1364)	1:115:A:ASN:CB	1:130:A:GLY:C	7	0.18
(1,1310)	1:2:A:ALA:C	1:32:A:ASN:CG	1	0.18
(1,707)	1:90:A:4FW:CB	1:71:A:TYR:CE1	10	0.18
(1,424)	1:3:A:LEU:CG	1:2:A:ALA:CB	1	0.18
(1,414)	1:6:A:VAL:CB	1:129:A:LYS:CG	1	0.18
(1,396)	1:103:A:ILE:CA	1:36:A:ILE:CG2	2	0.18
(1,187)	1:114:A:LEU:CA	1:111:A:GLY:CA	2	0.18
(1,187)	1:114:A:LEU:CA	1:111:A:GLY:CA	7	0.18
(1,187)	1:114:A:LEU:CA	1:111:A:GLY:CA	9	0.18
(1,107)	1:128:A:PHE:CB	1:8:A:ASN:C	1	0.18
(1,5306)	1:36:A:ILE:CA	1:52:A:THR:C	9	0.17
(1,5180)	1:49:A:GLY:CA	1:47:A:LEU:CG	4	0.17
(1,4924)	1:3:A:LEU:CA	1:22:A:GLN:CB	8	0.17
(1,4721)	1:67:A:GLY:CA	1:70:A:SER:CA	2	0.17
(1,4689)	1:8:A:ASN:CB	1:128:A:PHE:C	4	0.17
(1,4559)	1:61:A:PHE:CA	1:48:A:ASN:CG	7	0.17
(1,4508)	1:50:A:THR:CG2	1:38:A:VAL:CG1	8	0.17
(1,4508)	1:50:A:THR:CG2	1:38:A:VAL:CG2	8	0.17
(1,4291)	1:71:A:TYR:CA	1:72:A:GLU:CD	4	0.17
(1,4246)	1:34:A:VAL:CA	1:54:A:ALA:C	3	0.17
(1,4049)	1:125:A:PRO:CB	1:102:A:ALA:CB	10	0.17
(1,4046)	1:46:A:THR:CG2	1:64:A:THR:C	3	0.17
(1,3958)	1:3:A:LEU:CA	1:22:A:GLN:CD	5	0.17
(1,3849)	1:48:A:ASN:CB	1:63:A:ALA:C	6	0.17
(1,3774)	1:19:A:GLU:CB	1:21:A:GLY:C	7	0.17
(1,3298)	1:89:A:ASN:CB	1:66:A:LEU:CG	5	0.17
(1,3202)	1:75:A:ASN:CB	1:61:A:PHE:C	8	0.17
(1,2972)	1:39:A:GLU:CB	1:101:A:VAL:CB	2	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2883)	1:25:A:ILE:CG1	1:4:A:TYR:C	9	0.17
(1,2656)	1:39:A:GLU:CB	1:48:A:ASN:CG	8	0.17
(1,2461)	1:63:A:ALA:CA	1:74:A:GLU:CB	5	0.17
(1,2178)	1:20:A:GLY:CA	1:6:A:VAL:CB	8	0.17
(1,2142)	1:87:A:GLY:C	1:72:A:GLU:CG	9	0.17
(1,2128)	1:126:A:ILE:CB	1:120:A:TYR:CD2	5	0.17
(1,2128)	1:126:A:ILE:CB	1:120:A:TYR:CD2	9	0.17
(1,1980)	1:47:A:LEU:CB	1:92:A:LEU:CG	3	0.17
(1,1921)	1:56:A:GLU:CB	1:59:A:ILE:CG1	9	0.17
(1,1881)	1:124:A:GLY:CA	1:126:A:ILE:CD1	4	0.17
(1,1822)	1:38:A:VAL:CB	1:36:A:ILE:CG1	6	0.17
(1,1652)	1:131:A:THR:CA	1:129:A:LYS:CB	7	0.17
(1,1481)	1:47:A:LEU:CB	1:100:A:VAL:C	2	0.17
(1,1481)	1:47:A:LEU:CB	1:100:A:VAL:C	5	0.17
(1,1481)	1:47:A:LEU:CB	1:100:A:VAL:C	9	0.17
(1,819)	1:133:A:THR:CB	1:2:A:ALA:C	2	0.17
(1,587)	1:114:A:LEU:CA	1:4:A:TYR:CG	5	0.17
(1,187)	1:114:A:LEU:CA	1:111:A:GLY:CA	5	0.17
(1,187)	1:114:A:LEU:CA	1:111:A:GLY:CA	10	0.17
(1,170)	1:92:A:LEU:CD1	1:24:A:GLU:C	3	0.17
(1,5306)	1:36:A:ILE:CA	1:52:A:THR:C	3	0.16
(1,4902)	1:36:A:ILE:CG2	1:104:A:ASN:C	7	0.16
(1,4722)	1:114:A:LEU:CA	1:109:A:ASP:CG	3	0.16
(1,4305)	1:46:A:THR:C	1:43:A:ASP:C	10	0.16
(1,4302)	1:113:A:THR:CB	1:107:A:SER:CA	3	0.16
(1,4291)	1:71:A:TYR:CA	1:72:A:GLU:CD	1	0.16
(1,4270)	1:106:A:GLU:CG	1:115:A:ASN:C	2	0.16
(1,4270)	1:106:A:GLU:CG	1:115:A:ASN:C	4	0.16
(1,4270)	1:106:A:GLU:CG	1:115:A:ASN:C	6	0.16
(1,4096)	1:32:A:ASN:CA	1:29:A:SER:C	4	0.16
(1,4046)	1:46:A:THR:CG2	1:64:A:THR:C	1	0.16
(1,3972)	1:56:A:GLU:CB	1:53:A:TYR:CD2	5	0.16
(1,3792)	1:73:A:VAL:CB	1:92:A:LEU:CD1	7	0.16
(1,3792)	1:73:A:VAL:CB	1:92:A:LEU:CD1	10	0.16
(1,3670)	1:119:A:THR:CA	1:123:A:GLU:CG	7	0.16
(1,3525)	1:61:A:PHE:CD1	1:51:A:MET:C	8	0.16
(1,3292)	1:107:A:SER:CA	1:115:A:ASN:C	3	0.16
(1,3215)	1:114:A:LEU:CB	1:33:A:VAL:C	6	0.16
(1,3122)	1:38:A:VAL:CA	1:48:A:ASN:CG	7	0.16
(1,2744)	1:112:A:GLN:CB	1:132:A:LEU:C	10	0.16
(1,2641)	1:33:A:VAL:CB	1:111:A:GLY:C	7	0.16
(1,2265)	1:127:A:GLY:CA	1:125:A:PRO:CB	5	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2178)	1:20:A:GLY:CA	1:6:A:VAL:CB	10	0.16
(1,2128)	1:126:A:ILE:CB	1:120:A:TYR:CD2	7	0.16
(1,2070)	1:89:A:ASN:C	1:27:A:SER:CA	4	0.16
(1,1741)	1:87:A:GLY:C	1:26:A:GLY:CA	2	0.16
(1,1565)	1:101:A:VAL:CA	1:121:A:ALA:C	1	0.16
(1,1481)	1:47:A:LEU:CB	1:100:A:VAL:C	10	0.16
(1,1161)	1:65:A:LEU:CB	1:46:A:THR:C	10	0.16
(1,947)	1:75:A:ASN:CA	1:51:A:MET:CG	8	0.16
(1,819)	1:133:A:THR:CB	1:2:A:ALA:C	7	0.16
(1,801)	1:5:A:ASN:CA	1:23:A:4FW:CB	3	0.16
(1,587)	1:114:A:LEU:CA	1:4:A:TYR:CG	6	0.16
(1,536)	1:86:A:SER:CA	1:73:A:VAL:CB	1	0.16
(1,536)	1:86:A:SER:CA	1:73:A:VAL:CB	5	0.16
(1,536)	1:86:A:SER:CA	1:73:A:VAL:CB	6	0.16
(1,400)	1:117:A:THR:CA	1:103:A:ILE:CB	3	0.16
(1,400)	1:117:A:THR:CA	1:103:A:ILE:CB	7	0.16
(1,187)	1:114:A:LEU:CA	1:111:A:GLY:CA	3	0.16
(1,187)	1:114:A:LEU:CA	1:111:A:GLY:CA	4	0.16
(1,5306)	1:36:A:ILE:CA	1:52:A:THR:C	1	0.15
(1,5101)	1:51:A:MET:CB	1:25:A:ILE:CG2	6	0.15
(1,4856)	1:56:A:GLU:CA	1:34:A:VAL:CG1	7	0.15
(1,4856)	1:56:A:GLU:CA	1:34:A:VAL:CG2	7	0.15
(1,4743)	1:19:A:GLU:C	1:6:A:VAL:CB	7	0.15
(1,4722)	1:114:A:LEU:CA	1:109:A:ASP:CG	9	0.15
(1,4722)	1:114:A:LEU:CA	1:109:A:ASP:CG	10	0.15
(1,4721)	1:67:A:GLY:CA	1:70:A:SER:CA	1	0.15
(1,4721)	1:67:A:GLY:CA	1:70:A:SER:CA	4	0.15
(1,4721)	1:67:A:GLY:CA	1:70:A:SER:CA	9	0.15
(1,4643)	1:40:A:SER:C	1:47:A:LEU:C	8	0.15
(1,4426)	1:73:A:VAL:CA	1:90:A:4FW:CB	6	0.15
(1,4426)	1:73:A:VAL:CA	1:90:A:4FW:CB	8	0.15
(1,4302)	1:113:A:THR:CB	1:107:A:SER:CA	2	0.15
(1,4291)	1:71:A:TYR:CA	1:72:A:GLU:CD	3	0.15
(1,4291)	1:71:A:TYR:CA	1:72:A:GLU:CD	10	0.15
(1,4096)	1:32:A:ASN:CA	1:29:A:SER:C	5	0.15
(1,4049)	1:125:A:PRO:CB	1:102:A:ALA:CB	1	0.15
(1,3995)	1:117:A:THR:CG2	1:105:A:VAL:CG1	7	0.15
(1,3995)	1:117:A:THR:CG2	1:105:A:VAL:CG2	7	0.15
(1,3953)	1:20:A:GLY:C	1:93:A:GLY:CA	4	0.15
(1,3952)	1:37:A:ASN:CA	1:48:A:ASN:C	8	0.15
(1,3849)	1:48:A:ASN:CB	1:63:A:ALA:C	9	0.15
(1,3792)	1:73:A:VAL:CB	1:92:A:LEU:CD1	9	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3684)	1:58:A:PRO:CB	1:35:A:ALA:CB	2	0.15
(1,3684)	1:58:A:PRO:CB	1:35:A:ALA:CB	5	0.15
(1,3617)	1:4:A:TYR:CB	1:22:A:GLN:CB	7	0.15
(1,3202)	1:75:A:ASN:CB	1:61:A:PHE:C	5	0.15
(1,3202)	1:75:A:ASN:CB	1:61:A:PHE:C	6	0.15
(1,3175)	1:89:A:ASN:CA	1:91:A:ILE:CG1	6	0.15
(1,2987)	1:36:A:ILE:CG1	1:50:A:THR:C	7	0.15
(1,2831)	1:89:A:ASN:CA	1:24:A:GLU:CB	1	0.15
(1,2831)	1:89:A:ASN:CA	1:24:A:GLU:CB	9	0.15
(1,2715)	1:6:A:VAL:CA	1:23:A:4FW:CA	2	0.15
(1,2557)	1:87:A:GLY:CA	1:74:A:GLU:CB	10	0.15
(1,2128)	1:126:A:ILE:CB	1:120:A:TYR:CD2	10	0.15
(1,1971)	1:114:A:LEU:CB	1:36:A:ILE:CG1	8	0.15
(1,1881)	1:124:A:GLY:CA	1:126:A:ILE:CD1	7	0.15
(1,1822)	1:38:A:VAL:CB	1:36:A:ILE:CG1	10	0.15
(1,1364)	1:115:A:ASN:CB	1:130:A:GLY:C	6	0.15
(1,1364)	1:115:A:ASN:CB	1:130:A:GLY:C	10	0.15
(1,1310)	1:2:A:ALA:C	1:32:A:ASN:CG	3	0.15
(1,1310)	1:2:A:ALA:C	1:32:A:ASN:CG	5	0.15
(1,1310)	1:2:A:ALA:C	1:32:A:ASN:CG	6	0.15
(1,1161)	1:65:A:LEU:CB	1:46:A:THR:C	1	0.15
(1,1161)	1:65:A:LEU:CB	1:46:A:THR:C	8	0.15
(1,757)	1:8:A:ASN:CA	1:129:A:LYS:C	10	0.15
(1,751)	1:113:A:THR:CA	1:106:A:GLU:C	5	0.15
(1,751)	1:113:A:THR:CA	1:106:A:GLU:C	10	0.15
(1,708)	1:92:A:LEU:CB	1:25:A:ILE:CG1	2	0.15
(1,673)	1:59:A:ILE:CB	1:53:A:TYR:CE2	10	0.15
(1,536)	1:86:A:SER:CA	1:73:A:VAL:CB	2	0.15
(1,395)	1:23:A:4FW:CB	1:25:A:ILE:CG2	5	0.15
(1,290)	1:34:A:VAL:CA	1:106:A:GLU:CG	2	0.15
(1,227)	1:27:A:SER:CA	1:33:A:VAL:CG1	8	0.15
(1,227)	1:27:A:SER:CA	1:33:A:VAL:CG2	8	0.15
(1,107)	1:128:A:PHE:CB	1:8:A:ASN:C	10	0.15
(1,5439)	1:76:A:GLN:CA	1:59:A:ILE:CD1	10	0.14
(1,5101)	1:51:A:MET:CB	1:25:A:ILE:CG2	3	0.14
(1,5079)	1:112:A:GLN:CA	1:131:A:THR:CG2	7	0.14
(1,4951)	1:26:A:GLY:CA	1:2:A:ALA:CB	9	0.14
(1,4935)	1:102:A:ALA:CA	1:118:A:MET:CG	9	0.14
(1,4847)	1:36:A:ILE:CB	1:114:A:LEU:CG	9	0.14
(1,4837)	1:114:A:LEU:CB	1:4:A:TYR:CB	7	0.14
(1,4750)	1:91:A:ILE:CB	1:93:A:GLY:C	5	0.14
(1,4722)	1:114:A:LEU:CA	1:109:A:ASP:CG	4	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4721)	1:67:A:GLY:CA	1:70:A:SER:CA	6	0.14
(1,4689)	1:8:A:ASN:CB	1:128:A:PHE:C	5	0.14
(1,4597)	1:36:A:ILE:CA	1:103:A:ILE:CG1	8	0.14
(1,4535)	1:47:A:LEU:CB	1:40:A:SER:C	6	0.14
(1,4426)	1:73:A:VAL:CA	1:90:A:4FW:CB	9	0.14
(1,4316)	1:92:A:LEU:CD1	1:36:A:ILE:CD1	3	0.14
(1,4302)	1:113:A:THR:CB	1:107:A:SER:CA	6	0.14
(1,4297)	1:61:A:PHE:CA	1:38:A:VAL:CB	5	0.14
(1,4254)	1:47:A:LEU:CB	1:39:A:GLU:CB	5	0.14
(1,4206)	1:20:A:GLY:CA	1:8:A:ASN:CA	3	0.14
(1,4187)	1:64:A:THR:C	1:44:A:GLY:C	9	0.14
(1,4046)	1:46:A:THR:CG2	1:64:A:THR:C	2	0.14
(1,4046)	1:46:A:THR:CG2	1:64:A:THR:C	5	0.14
(1,3953)	1:20:A:GLY:C	1:93:A:GLY:CA	2	0.14
(1,3952)	1:37:A:ASN:CA	1:48:A:ASN:C	1	0.14
(1,3952)	1:37:A:ASN:CA	1:48:A:ASN:C	3	0.14
(1,3903)	1:20:A:GLY:C	1:7:A:GLU:CB	7	0.14
(1,3857)	1:36:A:ILE:CA	1:61:A:PHE:CD1	5	0.14
(1,3857)	1:36:A:ILE:CA	1:61:A:PHE:CD1	10	0.14
(1,3755)	1:53:A:TYR:CZ	1:28:A:ARG:C	7	0.14
(1,3712)	1:6:A:VAL:CB	1:6:A:VAL:CG1	2	0.14
(1,3712)	1:6:A:VAL:CB	1:6:A:VAL:CG2	2	0.14
(1,3670)	1:119:A:THR:CA	1:123:A:GLU:CG	4	0.14
(1,3670)	1:119:A:THR:CA	1:123:A:GLU:CG	5	0.14
(1,3610)	1:128:A:PHE:CA	1:105:A:VAL:CB	8	0.14
(1,3298)	1:89:A:ASN:CB	1:66:A:LEU:CG	4	0.14
(1,3264)	1:69:A:ASN:CA	1:66:A:LEU:C	7	0.14
(1,3264)	1:69:A:ASN:CA	1:66:A:LEU:C	9	0.14
(1,3245)	1:128:A:PHE:CB	1:115:A:ASN:CB	4	0.14
(1,3215)	1:114:A:LEU:CB	1:33:A:VAL:C	9	0.14
(1,3202)	1:75:A:ASN:CB	1:61:A:PHE:C	3	0.14
(1,3122)	1:38:A:VAL:CA	1:48:A:ASN:CG	2	0.14
(1,3122)	1:38:A:VAL:CA	1:48:A:ASN:CG	8	0.14
(1,3008)	1:74:A:GLU:CA	1:61:A:PHE:CB	9	0.14
(1,2994)	1:103:A:ILE:CA	1:128:A:PHE:CD1	3	0.14
(1,2831)	1:89:A:ASN:CA	1:24:A:GLU:CB	3	0.14
(1,2641)	1:33:A:VAL:CB	1:111:A:GLY:C	6	0.14
(1,2265)	1:127:A:GLY:CA	1:125:A:PRO:CB	2	0.14
(1,2070)	1:89:A:ASN:C	1:27:A:SER:CA	9	0.14
(1,1875)	1:74:A:GLU:CA	1:63:A:ALA:CB	9	0.14
(1,1759)	1:74:A:GLU:CA	1:72:A:GLU:CD	4	0.14
(1,1481)	1:47:A:LEU:CB	1:100:A:VAL:C	3	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1399)	1:20:A:GLY:C	1:22:A:GLN:CD	8	0.14
(1,1387)	1:8:A:ASN:CB	1:17:A:4FW:CB	2	0.14
(1,1351)	1:24:A:GLU:CG	1:91:A:ILE:CG2	7	0.14
(1,1310)	1:2:A:ALA:C	1:32:A:ASN:CG	4	0.14
(1,1310)	1:2:A:ALA:C	1:32:A:ASN:CG	8	0.14
(1,998)	1:119:A:THR:CB	1:121:A:ALA:C	4	0.14
(1,755)	1:100:A:VAL:CB	1:100:A:VAL:CG1	3	0.14
(1,755)	1:100:A:VAL:CB	1:100:A:VAL:CG2	3	0.14
(1,755)	1:100:A:VAL:CB	1:100:A:VAL:CG1	8	0.14
(1,755)	1:100:A:VAL:CB	1:100:A:VAL:CG2	8	0.14
(1,755)	1:100:A:VAL:CB	1:100:A:VAL:CG1	10	0.14
(1,755)	1:100:A:VAL:CB	1:100:A:VAL:CG2	10	0.14
(1,751)	1:113:A:THR:CA	1:106:A:GLU:C	7	0.14
(1,675)	1:100:A:VAL:CB	1:100:A:VAL:CG1	3	0.14
(1,675)	1:100:A:VAL:CB	1:100:A:VAL:CG2	3	0.14
(1,675)	1:100:A:VAL:CB	1:100:A:VAL:CG1	8	0.14
(1,675)	1:100:A:VAL:CB	1:100:A:VAL:CG2	8	0.14
(1,675)	1:100:A:VAL:CB	1:100:A:VAL:CG1	10	0.14
(1,675)	1:100:A:VAL:CB	1:100:A:VAL:CG2	10	0.14
(1,673)	1:59:A:ILE:CB	1:53:A:TYR:CE2	1	0.14
(1,587)	1:114:A:LEU:CA	1:4:A:TYR:CG	7	0.14
(1,536)	1:86:A:SER:CA	1:73:A:VAL:CB	7	0.14
(1,432)	1:92:A:LEU:CD1	1:61:A:PHE:CD1	5	0.14
(1,414)	1:6:A:VAL:CB	1:129:A:LYS:CG	8	0.14
(1,290)	1:34:A:VAL:CA	1:106:A:GLU:CG	9	0.14
(1,219)	1:92:A:LEU:CG	1:25:A:ILE:CG2	9	0.14
(1,219)	1:92:A:LEU:CG	1:25:A:ILE:CG2	10	0.14
(1,5306)	1:36:A:ILE:CA	1:52:A:THR:C	10	0.13
(1,5151)	1:33:A:VAL:CA	1:110:A:ASP:C	2	0.13
(1,5135)	1:126:A:ILE:CG1	1:128:A:PHE:CD1	5	0.13
(1,5002)	1:63:A:ALA:CB	1:46:A:THR:CG2	3	0.13
(1,4900)	1:105:A:VAL:CB	1:105:A:VAL:CG1	1	0.13
(1,4900)	1:105:A:VAL:CB	1:105:A:VAL:CG2	1	0.13
(1,4900)	1:105:A:VAL:CB	1:105:A:VAL:CG1	2	0.13
(1,4900)	1:105:A:VAL:CB	1:105:A:VAL:CG2	2	0.13
(1,4900)	1:105:A:VAL:CB	1:105:A:VAL:CG1	3	0.13
(1,4900)	1:105:A:VAL:CB	1:105:A:VAL:CG2	3	0.13
(1,4900)	1:105:A:VAL:CB	1:105:A:VAL:CG1	4	0.13
(1,4900)	1:105:A:VAL:CB	1:105:A:VAL:CG2	4	0.13
(1,4900)	1:105:A:VAL:CB	1:105:A:VAL:CG1	5	0.13
(1,4900)	1:105:A:VAL:CB	1:105:A:VAL:CG2	5	0.13
(1,4900)	1:105:A:VAL:CB	1:105:A:VAL:CG1	6	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4900)	1:105:A:VAL:CB	1:105:A:VAL:CG2	6	0.13
(1,4900)	1:105:A:VAL:CB	1:105:A:VAL:CG1	7	0.13
(1,4900)	1:105:A:VAL:CB	1:105:A:VAL:CG2	7	0.13
(1,4900)	1:105:A:VAL:CB	1:105:A:VAL:CG1	8	0.13
(1,4900)	1:105:A:VAL:CB	1:105:A:VAL:CG2	8	0.13
(1,4900)	1:105:A:VAL:CB	1:105:A:VAL:CG1	9	0.13
(1,4900)	1:105:A:VAL:CB	1:105:A:VAL:CG2	9	0.13
(1,4900)	1:105:A:VAL:CB	1:105:A:VAL:CG1	10	0.13
(1,4900)	1:105:A:VAL:CB	1:105:A:VAL:CG2	10	0.13
(1,4847)	1:36:A:ILE:CB	1:114:A:LEU:CG	1	0.13
(1,4776)	1:87:A:GLY:C	1:74:A:GLU:CG	10	0.13
(1,4750)	1:91:A:ILE:CB	1:93:A:GLY:C	1	0.13
(1,4750)	1:91:A:ILE:CB	1:93:A:GLY:C	2	0.13
(1,4750)	1:91:A:ILE:CB	1:93:A:GLY:C	4	0.13
(1,4722)	1:114:A:LEU:CA	1:109:A:ASP:CG	1	0.13
(1,4722)	1:114:A:LEU:CA	1:109:A:ASP:CG	7	0.13
(1,4721)	1:67:A:GLY:CA	1:70:A:SER:CA	7	0.13
(1,4634)	1:7:A:GLU:CA	1:128:A:PHE:CB	5	0.13
(1,4597)	1:36:A:ILE:CA	1:103:A:ILE:CG1	9	0.13
(1,4561)	1:33:A:VAL:CB	1:33:A:VAL:CG1	1	0.13
(1,4561)	1:33:A:VAL:CB	1:33:A:VAL:CG2	1	0.13
(1,4561)	1:33:A:VAL:CB	1:33:A:VAL:CG1	2	0.13
(1,4561)	1:33:A:VAL:CB	1:33:A:VAL:CG2	2	0.13
(1,4561)	1:33:A:VAL:CB	1:33:A:VAL:CG1	3	0.13
(1,4561)	1:33:A:VAL:CB	1:33:A:VAL:CG2	3	0.13
(1,4561)	1:33:A:VAL:CB	1:33:A:VAL:CG1	4	0.13
(1,4561)	1:33:A:VAL:CB	1:33:A:VAL:CG2	4	0.13
(1,4561)	1:33:A:VAL:CB	1:33:A:VAL:CG1	5	0.13
(1,4561)	1:33:A:VAL:CB	1:33:A:VAL:CG2	5	0.13
(1,4561)	1:33:A:VAL:CB	1:33:A:VAL:CG1	6	0.13
(1,4561)	1:33:A:VAL:CB	1:33:A:VAL:CG2	6	0.13
(1,4561)	1:33:A:VAL:CB	1:33:A:VAL:CG1	7	0.13
(1,4561)	1:33:A:VAL:CB	1:33:A:VAL:CG2	7	0.13
(1,4561)	1:33:A:VAL:CB	1:33:A:VAL:CG1	8	0.13
(1,4561)	1:33:A:VAL:CB	1:33:A:VAL:CG2	8	0.13
(1,4561)	1:33:A:VAL:CB	1:33:A:VAL:CG1	9	0.13
(1,4561)	1:33:A:VAL:CB	1:33:A:VAL:CG2	9	0.13
(1,4552)	1:23:A:4FW:CA	1:91:A:ILE:CD1	1	0.13
(1,4552)	1:23:A:4FW:CA	1:91:A:ILE:CD1	10	0.13
(1,4432)	1:73:A:VAL:CB	1:73:A:VAL:CG1	2	0.13
(1,4432)	1:73:A:VAL:CB	1:73:A:VAL:CG2	2	0.13
(1,4432)	1:73:A:VAL:CB	1:73:A:VAL:CG1	8	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4432)	1:73:A:VAL:CB	1:73:A:VAL:CG2	8	0.13
(1,4297)	1:61:A:PHE:CA	1:38:A:VAL:CB	6	0.13
(1,4112)	1:40:A:SER:CB	1:100:A:VAL:CG1	5	0.13
(1,4112)	1:40:A:SER:CB	1:100:A:VAL:CG2	5	0.13
(1,4096)	1:32:A:ASN:CA	1:29:A:SER:C	2	0.13
(1,4046)	1:46:A:THR:CG2	1:64:A:THR:C	6	0.13
(1,3953)	1:20:A:GLY:C	1:93:A:GLY:CA	5	0.13
(1,3930)	1:33:A:VAL:CB	1:33:A:VAL:CG1	1	0.13
(1,3930)	1:33:A:VAL:CB	1:33:A:VAL:CG2	1	0.13
(1,3930)	1:33:A:VAL:CB	1:33:A:VAL:CG1	2	0.13
(1,3930)	1:33:A:VAL:CB	1:33:A:VAL:CG2	2	0.13
(1,3930)	1:33:A:VAL:CB	1:33:A:VAL:CG1	3	0.13
(1,3930)	1:33:A:VAL:CB	1:33:A:VAL:CG2	3	0.13
(1,3930)	1:33:A:VAL:CB	1:33:A:VAL:CG1	4	0.13
(1,3930)	1:33:A:VAL:CB	1:33:A:VAL:CG2	4	0.13
(1,3930)	1:33:A:VAL:CB	1:33:A:VAL:CG1	5	0.13
(1,3930)	1:33:A:VAL:CB	1:33:A:VAL:CG2	5	0.13
(1,3930)	1:33:A:VAL:CB	1:33:A:VAL:CG1	6	0.13
(1,3930)	1:33:A:VAL:CB	1:33:A:VAL:CG2	6	0.13
(1,3930)	1:33:A:VAL:CB	1:33:A:VAL:CG1	7	0.13
(1,3930)	1:33:A:VAL:CB	1:33:A:VAL:CG2	7	0.13
(1,3930)	1:33:A:VAL:CB	1:33:A:VAL:CG1	8	0.13
(1,3930)	1:33:A:VAL:CB	1:33:A:VAL:CG2	8	0.13
(1,3930)	1:33:A:VAL:CB	1:33:A:VAL:CG1	9	0.13
(1,3930)	1:33:A:VAL:CB	1:33:A:VAL:CG2	9	0.13
(1,3846)	1:73:A:VAL:CB	1:73:A:VAL:CG1	2	0.13
(1,3846)	1:73:A:VAL:CB	1:73:A:VAL:CG2	2	0.13
(1,3846)	1:73:A:VAL:CB	1:73:A:VAL:CG1	8	0.13
(1,3846)	1:73:A:VAL:CB	1:73:A:VAL:CG2	8	0.13
(1,3755)	1:53:A:TYR:CZ	1:28:A:ARG:C	5	0.13
(1,3755)	1:53:A:TYR:CZ	1:28:A:ARG:C	6	0.13
(1,3720)	1:103:A:ILE:CA	1:36:A:ILE:CG1	3	0.13
(1,3712)	1:6:A:VAL:CB	1:6:A:VAL:CG1	3	0.13
(1,3712)	1:6:A:VAL:CB	1:6:A:VAL:CG2	3	0.13
(1,3712)	1:6:A:VAL:CB	1:6:A:VAL:CG1	4	0.13
(1,3712)	1:6:A:VAL:CB	1:6:A:VAL:CG2	4	0.13
(1,3712)	1:6:A:VAL:CB	1:6:A:VAL:CG1	5	0.13
(1,3712)	1:6:A:VAL:CB	1:6:A:VAL:CG2	5	0.13
(1,3712)	1:6:A:VAL:CB	1:6:A:VAL:CG1	6	0.13
(1,3712)	1:6:A:VAL:CB	1:6:A:VAL:CG2	6	0.13
(1,3712)	1:6:A:VAL:CB	1:6:A:VAL:CG1	7	0.13
(1,3712)	1:6:A:VAL:CB	1:6:A:VAL:CG2	7	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3712)	1:6:A:VAL:CB	1:6:A:VAL:CG1	9	0.13
(1,3712)	1:6:A:VAL:CB	1:6:A:VAL:CG2	9	0.13
(1,3712)	1:6:A:VAL:CB	1:6:A:VAL:CG1	10	0.13
(1,3712)	1:6:A:VAL:CB	1:6:A:VAL:CG2	10	0.13
(1,3670)	1:119:A:THR:CA	1:123:A:GLU:CG	8	0.13
(1,3611)	1:125:A:PRO:CG	1:117:A:THR:CG2	6	0.13
(1,3572)	1:105:A:VAL:CB	1:105:A:VAL:CG1	1	0.13
(1,3572)	1:105:A:VAL:CB	1:105:A:VAL:CG2	1	0.13
(1,3572)	1:105:A:VAL:CB	1:105:A:VAL:CG1	2	0.13
(1,3572)	1:105:A:VAL:CB	1:105:A:VAL:CG2	2	0.13
(1,3572)	1:105:A:VAL:CB	1:105:A:VAL:CG1	3	0.13
(1,3572)	1:105:A:VAL:CB	1:105:A:VAL:CG2	3	0.13
(1,3572)	1:105:A:VAL:CB	1:105:A:VAL:CG1	4	0.13
(1,3572)	1:105:A:VAL:CB	1:105:A:VAL:CG2	4	0.13
(1,3572)	1:105:A:VAL:CB	1:105:A:VAL:CG1	5	0.13
(1,3572)	1:105:A:VAL:CB	1:105:A:VAL:CG2	5	0.13
(1,3572)	1:105:A:VAL:CB	1:105:A:VAL:CG1	6	0.13
(1,3572)	1:105:A:VAL:CB	1:105:A:VAL:CG2	6	0.13
(1,3572)	1:105:A:VAL:CB	1:105:A:VAL:CG1	7	0.13
(1,3572)	1:105:A:VAL:CB	1:105:A:VAL:CG2	7	0.13
(1,3572)	1:105:A:VAL:CB	1:105:A:VAL:CG1	8	0.13
(1,3572)	1:105:A:VAL:CB	1:105:A:VAL:CG2	8	0.13
(1,3572)	1:105:A:VAL:CB	1:105:A:VAL:CG1	9	0.13
(1,3572)	1:105:A:VAL:CB	1:105:A:VAL:CG2	9	0.13
(1,3572)	1:105:A:VAL:CB	1:105:A:VAL:CG1	10	0.13
(1,3572)	1:105:A:VAL:CB	1:105:A:VAL:CG2	10	0.13
(1,3525)	1:61:A:PHE:CD1	1:51:A:MET:C	5	0.13
(1,3292)	1:107:A:SER:CA	1:115:A:ASN:C	4	0.13
(1,3202)	1:75:A:ASN:CB	1:61:A:PHE:C	9	0.13
(1,3187)	1:69:A:ASN:CA	1:93:A:GLY:CA	9	0.13
(1,3175)	1:89:A:ASN:CA	1:91:A:ILE:CG1	3	0.13
(1,3014)	1:38:A:VAL:CB	1:38:A:VAL:CG1	1	0.13
(1,3014)	1:38:A:VAL:CB	1:38:A:VAL:CG2	1	0.13
(1,3014)	1:38:A:VAL:CB	1:38:A:VAL:CG1	2	0.13
(1,3014)	1:38:A:VAL:CB	1:38:A:VAL:CG2	2	0.13
(1,3014)	1:38:A:VAL:CB	1:38:A:VAL:CG1	3	0.13
(1,3014)	1:38:A:VAL:CB	1:38:A:VAL:CG2	3	0.13
(1,3014)	1:38:A:VAL:CB	1:38:A:VAL:CG1	4	0.13
(1,3014)	1:38:A:VAL:CB	1:38:A:VAL:CG2	4	0.13
(1,3014)	1:38:A:VAL:CB	1:38:A:VAL:CG1	5	0.13
(1,3014)	1:38:A:VAL:CB	1:38:A:VAL:CG2	5	0.13
(1,3014)	1:38:A:VAL:CB	1:38:A:VAL:CG1	6	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3014)	1:38:A:VAL:CB	1:38:A:VAL:CG2	6	0.13
(1,3014)	1:38:A:VAL:CB	1:38:A:VAL:CG1	7	0.13
(1,3014)	1:38:A:VAL:CB	1:38:A:VAL:CG2	7	0.13
(1,3014)	1:38:A:VAL:CB	1:38:A:VAL:CG1	8	0.13
(1,3014)	1:38:A:VAL:CB	1:38:A:VAL:CG2	8	0.13
(1,3014)	1:38:A:VAL:CB	1:38:A:VAL:CG1	9	0.13
(1,3014)	1:38:A:VAL:CB	1:38:A:VAL:CG2	9	0.13
(1,3014)	1:38:A:VAL:CB	1:38:A:VAL:CG1	10	0.13
(1,3014)	1:38:A:VAL:CB	1:38:A:VAL:CG2	10	0.13
(1,2987)	1:36:A:ILE:CG1	1:50:A:THR:C	2	0.13
(1,2880)	1:39:A:GLU:CG	1:48:A:ASN:C	9	0.13
(1,2461)	1:63:A:ALA:CA	1:74:A:GLU:CB	6	0.13
(1,2362)	1:34:A:VAL:CB	1:34:A:VAL:CG1	1	0.13
(1,2362)	1:34:A:VAL:CB	1:34:A:VAL:CG2	1	0.13
(1,2362)	1:34:A:VAL:CB	1:34:A:VAL:CG1	2	0.13
(1,2362)	1:34:A:VAL:CB	1:34:A:VAL:CG2	2	0.13
(1,2362)	1:34:A:VAL:CB	1:34:A:VAL:CG1	3	0.13
(1,2362)	1:34:A:VAL:CB	1:34:A:VAL:CG2	3	0.13
(1,2362)	1:34:A:VAL:CB	1:34:A:VAL:CG1	4	0.13
(1,2362)	1:34:A:VAL:CB	1:34:A:VAL:CG2	4	0.13
(1,2362)	1:34:A:VAL:CB	1:34:A:VAL:CG1	5	0.13
(1,2362)	1:34:A:VAL:CB	1:34:A:VAL:CG2	5	0.13
(1,2362)	1:34:A:VAL:CB	1:34:A:VAL:CG1	6	0.13
(1,2362)	1:34:A:VAL:CB	1:34:A:VAL:CG2	6	0.13
(1,2362)	1:34:A:VAL:CB	1:34:A:VAL:CG1	7	0.13
(1,2362)	1:34:A:VAL:CB	1:34:A:VAL:CG2	7	0.13
(1,2362)	1:34:A:VAL:CB	1:34:A:VAL:CG1	8	0.13
(1,2362)	1:34:A:VAL:CB	1:34:A:VAL:CG2	8	0.13
(1,2362)	1:34:A:VAL:CB	1:34:A:VAL:CG1	9	0.13
(1,2362)	1:34:A:VAL:CB	1:34:A:VAL:CG2	9	0.13
(1,2362)	1:34:A:VAL:CB	1:34:A:VAL:CG1	10	0.13
(1,2362)	1:34:A:VAL:CB	1:34:A:VAL:CG2	10	0.13
(1,2251)	1:93:A:GLY:C	1:22:A:GLN:C	3	0.13
(1,2142)	1:87:A:GLY:C	1:72:A:GLU:CG	7	0.13
(1,2128)	1:126:A:ILE:CB	1:120:A:TYR:CD2	2	0.13
(1,2128)	1:126:A:ILE:CB	1:120:A:TYR:CD2	3	0.13
(1,1582)	1:106:A:GLU:CB	1:34:A:VAL:CB	10	0.13
(1,1486)	1:38:A:VAL:CB	1:38:A:VAL:CG1	1	0.13
(1,1486)	1:38:A:VAL:CB	1:38:A:VAL:CG2	1	0.13
(1,1486)	1:38:A:VAL:CB	1:38:A:VAL:CG1	2	0.13
(1,1486)	1:38:A:VAL:CB	1:38:A:VAL:CG2	2	0.13
(1,1486)	1:38:A:VAL:CB	1:38:A:VAL:CG1	3	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1486)	1:38:A:VAL:CB	1:38:A:VAL:CG2	3	0.13
(1,1486)	1:38:A:VAL:CB	1:38:A:VAL:CG1	4	0.13
(1,1486)	1:38:A:VAL:CB	1:38:A:VAL:CG2	4	0.13
(1,1486)	1:38:A:VAL:CB	1:38:A:VAL:CG1	5	0.13
(1,1486)	1:38:A:VAL:CB	1:38:A:VAL:CG2	5	0.13
(1,1486)	1:38:A:VAL:CB	1:38:A:VAL:CG1	6	0.13
(1,1486)	1:38:A:VAL:CB	1:38:A:VAL:CG2	6	0.13
(1,1486)	1:38:A:VAL:CB	1:38:A:VAL:CG1	7	0.13
(1,1486)	1:38:A:VAL:CB	1:38:A:VAL:CG2	7	0.13
(1,1486)	1:38:A:VAL:CB	1:38:A:VAL:CG1	8	0.13
(1,1486)	1:38:A:VAL:CB	1:38:A:VAL:CG2	8	0.13
(1,1486)	1:38:A:VAL:CB	1:38:A:VAL:CG1	9	0.13
(1,1486)	1:38:A:VAL:CB	1:38:A:VAL:CG2	9	0.13
(1,1486)	1:38:A:VAL:CB	1:38:A:VAL:CG1	10	0.13
(1,1486)	1:38:A:VAL:CB	1:38:A:VAL:CG2	10	0.13
(1,1421)	1:101:A:VAL:CB	1:101:A:VAL:CG1	1	0.13
(1,1421)	1:101:A:VAL:CB	1:101:A:VAL:CG2	1	0.13
(1,1421)	1:101:A:VAL:CB	1:101:A:VAL:CG1	2	0.13
(1,1421)	1:101:A:VAL:CB	1:101:A:VAL:CG2	2	0.13
(1,1421)	1:101:A:VAL:CB	1:101:A:VAL:CG1	3	0.13
(1,1421)	1:101:A:VAL:CB	1:101:A:VAL:CG2	3	0.13
(1,1421)	1:101:A:VAL:CB	1:101:A:VAL:CG1	4	0.13
(1,1421)	1:101:A:VAL:CB	1:101:A:VAL:CG2	4	0.13
(1,1421)	1:101:A:VAL:CB	1:101:A:VAL:CG1	5	0.13
(1,1421)	1:101:A:VAL:CB	1:101:A:VAL:CG2	5	0.13
(1,1421)	1:101:A:VAL:CB	1:101:A:VAL:CG1	6	0.13
(1,1421)	1:101:A:VAL:CB	1:101:A:VAL:CG2	6	0.13
(1,1421)	1:101:A:VAL:CB	1:101:A:VAL:CG1	7	0.13
(1,1421)	1:101:A:VAL:CB	1:101:A:VAL:CG2	7	0.13
(1,1421)	1:101:A:VAL:CB	1:101:A:VAL:CG1	8	0.13
(1,1421)	1:101:A:VAL:CB	1:101:A:VAL:CG2	8	0.13
(1,1421)	1:101:A:VAL:CB	1:101:A:VAL:CG1	9	0.13
(1,1421)	1:101:A:VAL:CB	1:101:A:VAL:CG2	9	0.13
(1,1421)	1:101:A:VAL:CB	1:101:A:VAL:CG1	10	0.13
(1,1421)	1:101:A:VAL:CB	1:101:A:VAL:CG2	10	0.13
(1,1161)	1:65:A:LEU:CB	1:46:A:THR:C	6	0.13
(1,1049)	1:101:A:VAL:CA	1:39:A:GLU:CG	7	0.13
(1,1049)	1:101:A:VAL:CA	1:39:A:GLU:CG	8	0.13
(1,976)	1:67:A:GLY:CA	1:70:A:SER:CB	7	0.13
(1,930)	1:59:A:ILE:CB	1:56:A:GLU:CB	2	0.13
(1,755)	1:100:A:VAL:CB	1:100:A:VAL:CG1	1	0.13
(1,755)	1:100:A:VAL:CB	1:100:A:VAL:CG2	1	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,755)	1:100:A:VAL:CB	1:100:A:VAL:CG1	2	0.13
(1,755)	1:100:A:VAL:CB	1:100:A:VAL:CG2	2	0.13
(1,755)	1:100:A:VAL:CB	1:100:A:VAL:CG1	4	0.13
(1,755)	1:100:A:VAL:CB	1:100:A:VAL:CG2	4	0.13
(1,755)	1:100:A:VAL:CB	1:100:A:VAL:CG1	5	0.13
(1,755)	1:100:A:VAL:CB	1:100:A:VAL:CG2	5	0.13
(1,755)	1:100:A:VAL:CB	1:100:A:VAL:CG1	6	0.13
(1,755)	1:100:A:VAL:CB	1:100:A:VAL:CG2	6	0.13
(1,755)	1:100:A:VAL:CB	1:100:A:VAL:CG1	7	0.13
(1,755)	1:100:A:VAL:CB	1:100:A:VAL:CG2	7	0.13
(1,755)	1:100:A:VAL:CB	1:100:A:VAL:CG1	9	0.13
(1,755)	1:100:A:VAL:CB	1:100:A:VAL:CG2	9	0.13
(1,751)	1:113:A:THR:CA	1:106:A:GLU:C	3	0.13
(1,751)	1:113:A:THR:CA	1:106:A:GLU:C	8	0.13
(1,741)	1:101:A:VAL:CB	1:101:A:VAL:CG1	1	0.13
(1,741)	1:101:A:VAL:CB	1:101:A:VAL:CG2	1	0.13
(1,741)	1:101:A:VAL:CB	1:101:A:VAL:CG1	2	0.13
(1,741)	1:101:A:VAL:CB	1:101:A:VAL:CG2	2	0.13
(1,741)	1:101:A:VAL:CB	1:101:A:VAL:CG1	3	0.13
(1,741)	1:101:A:VAL:CB	1:101:A:VAL:CG2	3	0.13
(1,741)	1:101:A:VAL:CB	1:101:A:VAL:CG1	4	0.13
(1,741)	1:101:A:VAL:CB	1:101:A:VAL:CG2	4	0.13
(1,741)	1:101:A:VAL:CB	1:101:A:VAL:CG1	5	0.13
(1,741)	1:101:A:VAL:CB	1:101:A:VAL:CG2	5	0.13
(1,741)	1:101:A:VAL:CB	1:101:A:VAL:CG1	6	0.13
(1,741)	1:101:A:VAL:CB	1:101:A:VAL:CG2	6	0.13
(1,741)	1:101:A:VAL:CB	1:101:A:VAL:CG1	7	0.13
(1,741)	1:101:A:VAL:CB	1:101:A:VAL:CG2	7	0.13
(1,741)	1:101:A:VAL:CB	1:101:A:VAL:CG1	8	0.13
(1,741)	1:101:A:VAL:CB	1:101:A:VAL:CG2	8	0.13
(1,741)	1:101:A:VAL:CB	1:101:A:VAL:CG1	9	0.13
(1,741)	1:101:A:VAL:CB	1:101:A:VAL:CG2	9	0.13
(1,741)	1:101:A:VAL:CB	1:101:A:VAL:CG1	10	0.13
(1,741)	1:101:A:VAL:CB	1:101:A:VAL:CG2	10	0.13
(1,675)	1:100:A:VAL:CB	1:100:A:VAL:CG1	1	0.13
(1,675)	1:100:A:VAL:CB	1:100:A:VAL:CG2	1	0.13
(1,675)	1:100:A:VAL:CB	1:100:A:VAL:CG1	2	0.13
(1,675)	1:100:A:VAL:CB	1:100:A:VAL:CG2	2	0.13
(1,675)	1:100:A:VAL:CB	1:100:A:VAL:CG1	4	0.13
(1,675)	1:100:A:VAL:CB	1:100:A:VAL:CG2	4	0.13
(1,675)	1:100:A:VAL:CB	1:100:A:VAL:CG1	5	0.13
(1,675)	1:100:A:VAL:CB	1:100:A:VAL:CG2	5	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,675)	1:100:A:VAL:CB	1:100:A:VAL:CG1	6	0.13
(1,675)	1:100:A:VAL:CB	1:100:A:VAL:CG2	6	0.13
(1,675)	1:100:A:VAL:CB	1:100:A:VAL:CG1	7	0.13
(1,675)	1:100:A:VAL:CB	1:100:A:VAL:CG2	7	0.13
(1,675)	1:100:A:VAL:CB	1:100:A:VAL:CG1	9	0.13
(1,675)	1:100:A:VAL:CB	1:100:A:VAL:CG2	9	0.13
(1,592)	1:69:A:ASN:CA	1:90:A:4FW:C	5	0.13
(1,587)	1:114:A:LEU:CA	1:4:A:TYR:CG	8	0.13
(1,551)	1:34:A:VAL:CB	1:34:A:VAL:CG1	1	0.13
(1,551)	1:34:A:VAL:CB	1:34:A:VAL:CG2	1	0.13
(1,551)	1:34:A:VAL:CB	1:34:A:VAL:CG1	2	0.13
(1,551)	1:34:A:VAL:CB	1:34:A:VAL:CG2	2	0.13
(1,551)	1:34:A:VAL:CB	1:34:A:VAL:CG1	3	0.13
(1,551)	1:34:A:VAL:CB	1:34:A:VAL:CG2	3	0.13
(1,551)	1:34:A:VAL:CB	1:34:A:VAL:CG1	4	0.13
(1,551)	1:34:A:VAL:CB	1:34:A:VAL:CG2	4	0.13
(1,551)	1:34:A:VAL:CB	1:34:A:VAL:CG1	5	0.13
(1,551)	1:34:A:VAL:CB	1:34:A:VAL:CG2	5	0.13
(1,551)	1:34:A:VAL:CB	1:34:A:VAL:CG1	6	0.13
(1,551)	1:34:A:VAL:CB	1:34:A:VAL:CG2	6	0.13
(1,551)	1:34:A:VAL:CB	1:34:A:VAL:CG1	7	0.13
(1,551)	1:34:A:VAL:CB	1:34:A:VAL:CG2	7	0.13
(1,551)	1:34:A:VAL:CB	1:34:A:VAL:CG1	8	0.13
(1,551)	1:34:A:VAL:CB	1:34:A:VAL:CG2	8	0.13
(1,551)	1:34:A:VAL:CB	1:34:A:VAL:CG1	9	0.13
(1,551)	1:34:A:VAL:CB	1:34:A:VAL:CG2	9	0.13
(1,551)	1:34:A:VAL:CB	1:34:A:VAL:CG1	10	0.13
(1,551)	1:34:A:VAL:CB	1:34:A:VAL:CG2	10	0.13
(1,536)	1:86:A:SER:CA	1:73:A:VAL:CB	3	0.13
(1,432)	1:92:A:LEU:CD1	1:61:A:PHE:CD1	2	0.13
(1,5229)	1:47:A:LEU:CA	1:71:A:TYR:CG	9	0.12
(1,5187)	1:44:A:GLY:CA	1:65:A:LEU:CG	3	0.12
(1,5002)	1:63:A:ALA:CB	1:46:A:THR:CG2	9	0.12
(1,4924)	1:3:A:LEU:CA	1:22:A:GLN:CB	2	0.12
(1,4847)	1:36:A:ILE:CB	1:114:A:LEU:CG	3	0.12
(1,4817)	1:86:A:SER:C	1:73:A:VAL:CB	4	0.12
(1,4722)	1:114:A:LEU:CA	1:109:A:ASP:CG	2	0.12
(1,4722)	1:114:A:LEU:CA	1:109:A:ASP:CG	5	0.12
(1,4722)	1:114:A:LEU:CA	1:109:A:ASP:CG	8	0.12
(1,4597)	1:36:A:ILE:CA	1:103:A:ILE:CG1	3	0.12
(1,4597)	1:36:A:ILE:CA	1:103:A:ILE:CG1	10	0.12
(1,4561)	1:33:A:VAL:CB	1:33:A:VAL:CG1	10	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4561)	1:33:A:VAL:CB	1:33:A:VAL:CG2	10	0.12
(1,4535)	1:47:A:LEU:CB	1:40:A:SER:C	3	0.12
(1,4535)	1:47:A:LEU:CB	1:40:A:SER:C	7	0.12
(1,4508)	1:50:A:THR:CG2	1:38:A:VAL:CG1	9	0.12
(1,4508)	1:50:A:THR:CG2	1:38:A:VAL:CG2	9	0.12
(1,4432)	1:73:A:VAL:CB	1:73:A:VAL:CG1	1	0.12
(1,4432)	1:73:A:VAL:CB	1:73:A:VAL:CG2	1	0.12
(1,4432)	1:73:A:VAL:CB	1:73:A:VAL:CG1	3	0.12
(1,4432)	1:73:A:VAL:CB	1:73:A:VAL:CG2	3	0.12
(1,4432)	1:73:A:VAL:CB	1:73:A:VAL:CG1	4	0.12
(1,4432)	1:73:A:VAL:CB	1:73:A:VAL:CG2	4	0.12
(1,4432)	1:73:A:VAL:CB	1:73:A:VAL:CG1	5	0.12
(1,4432)	1:73:A:VAL:CB	1:73:A:VAL:CG2	5	0.12
(1,4432)	1:73:A:VAL:CB	1:73:A:VAL:CG1	6	0.12
(1,4432)	1:73:A:VAL:CB	1:73:A:VAL:CG2	6	0.12
(1,4432)	1:73:A:VAL:CB	1:73:A:VAL:CG1	7	0.12
(1,4432)	1:73:A:VAL:CB	1:73:A:VAL:CG2	7	0.12
(1,4432)	1:73:A:VAL:CB	1:73:A:VAL:CG1	9	0.12
(1,4432)	1:73:A:VAL:CB	1:73:A:VAL:CG2	9	0.12
(1,4432)	1:73:A:VAL:CB	1:73:A:VAL:CG1	10	0.12
(1,4432)	1:73:A:VAL:CB	1:73:A:VAL:CG2	10	0.12
(1,4305)	1:46:A:THR:C	1:43:A:ASP:C	3	0.12
(1,4297)	1:61:A:PHE:CA	1:38:A:VAL:CB	1	0.12
(1,4297)	1:61:A:PHE:CA	1:38:A:VAL:CB	9	0.12
(1,4134)	1:99:A:ASN:CA	1:92:A:LEU:C	8	0.12
(1,4032)	1:102:A:ALA:CA	1:47:A:LEU:CB	10	0.12
(1,3930)	1:33:A:VAL:CB	1:33:A:VAL:CG1	10	0.12
(1,3930)	1:33:A:VAL:CB	1:33:A:VAL:CG2	10	0.12
(1,3846)	1:73:A:VAL:CB	1:73:A:VAL:CG1	1	0.12
(1,3846)	1:73:A:VAL:CB	1:73:A:VAL:CG2	1	0.12
(1,3846)	1:73:A:VAL:CB	1:73:A:VAL:CG1	3	0.12
(1,3846)	1:73:A:VAL:CB	1:73:A:VAL:CG2	3	0.12
(1,3846)	1:73:A:VAL:CB	1:73:A:VAL:CG1	4	0.12
(1,3846)	1:73:A:VAL:CB	1:73:A:VAL:CG2	4	0.12
(1,3846)	1:73:A:VAL:CB	1:73:A:VAL:CG1	5	0.12
(1,3846)	1:73:A:VAL:CB	1:73:A:VAL:CG2	5	0.12
(1,3846)	1:73:A:VAL:CB	1:73:A:VAL:CG1	6	0.12
(1,3846)	1:73:A:VAL:CB	1:73:A:VAL:CG2	6	0.12
(1,3846)	1:73:A:VAL:CB	1:73:A:VAL:CG1	7	0.12
(1,3846)	1:73:A:VAL:CB	1:73:A:VAL:CG2	7	0.12
(1,3846)	1:73:A:VAL:CB	1:73:A:VAL:CG1	9	0.12
(1,3846)	1:73:A:VAL:CB	1:73:A:VAL:CG2	9	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3846)	1:73:A:VAL:CB	1:73:A:VAL:CG1	10	0.12
(1,3846)	1:73:A:VAL:CB	1:73:A:VAL:CG2	10	0.12
(1,3792)	1:73:A:VAL:CB	1:92:A:LEU:CD1	6	0.12
(1,3712)	1:6:A:VAL:CB	1:6:A:VAL:CG1	1	0.12
(1,3712)	1:6:A:VAL:CB	1:6:A:VAL:CG2	1	0.12
(1,3712)	1:6:A:VAL:CB	1:6:A:VAL:CG1	8	0.12
(1,3712)	1:6:A:VAL:CB	1:6:A:VAL:CG2	8	0.12
(1,3670)	1:119:A:THR:CA	1:123:A:GLU:CG	6	0.12
(1,3264)	1:69:A:ASN:CA	1:66:A:LEU:C	10	0.12
(1,3187)	1:69:A:ASN:CA	1:93:A:GLY:CA	7	0.12
(1,3175)	1:89:A:ASN:CA	1:91:A:ILE:CG1	10	0.12
(1,3057)	1:71:A:TYR:CE1	1:100:A:VAL:C	4	0.12
(1,3008)	1:74:A:GLU:CA	1:61:A:PHE:CB	2	0.12
(1,2866)	1:3:A:LEU:CD1	1:91:A:ILE:CG2	6	0.12
(1,2521)	1:50:A:THR:CA	1:35:A:ALA:C	8	0.12
(1,2461)	1:63:A:ALA:CA	1:74:A:GLU:CB	3	0.12
(1,2265)	1:127:A:GLY:CA	1:125:A:PRO:CB	1	0.12
(1,2265)	1:127:A:GLY:CA	1:125:A:PRO:CB	7	0.12
(1,2265)	1:127:A:GLY:CA	1:125:A:PRO:CB	9	0.12
(1,2178)	1:20:A:GLY:CA	1:6:A:VAL:CB	9	0.12
(1,2010)	1:73:A:VAL:CA	1:90:A:4FW:CA	3	0.12
(1,2010)	1:73:A:VAL:CA	1:90:A:4FW:CA	5	0.12
(1,1979)	1:39:A:GLU:CB	1:47:A:LEU:CG	1	0.12
(1,1979)	1:39:A:GLU:CB	1:47:A:LEU:CG	6	0.12
(1,1971)	1:114:A:LEU:CB	1:36:A:ILE:CG1	3	0.12
(1,1914)	1:111:A:GLY:CA	1:112:A:GLN:CD	8	0.12
(1,1723)	1:89:A:ASN:CA	1:66:A:LEU:CD1	8	0.12
(1,1481)	1:47:A:LEU:CB	1:100:A:VAL:C	7	0.12
(1,1351)	1:24:A:GLU:CG	1:91:A:ILE:CG2	5	0.12
(1,1300)	1:111:A:GLY:CA	1:114:A:LEU:CB	6	0.12
(1,1281)	1:99:A:ASN:CA	1:43:A:ASP:CB	3	0.12
(1,1178)	1:59:A:ILE:CB	1:50:A:THR:CG2	1	0.12
(1,1178)	1:59:A:ILE:CB	1:50:A:THR:CG2	3	0.12
(1,1161)	1:65:A:LEU:CB	1:46:A:THR:C	3	0.12
(1,1139)	1:22:A:GLN:CA	1:133:A:THR:CG2	8	0.12
(1,1001)	1:8:A:ASN:CB	1:128:A:PHE:CD1	5	0.12
(1,976)	1:67:A:GLY:CA	1:70:A:SER:CB	1	0.12
(1,976)	1:67:A:GLY:CA	1:70:A:SER:CB	2	0.12
(1,836)	1:113:A:THR:C	1:109:A:ASP:C	6	0.12
(1,814)	1:24:A:GLU:CA	1:92:A:LEU:CG	3	0.12
(1,757)	1:8:A:ASN:CA	1:129:A:LYS:C	1	0.12
(1,757)	1:8:A:ASN:CA	1:129:A:LYS:C	9	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,707)	1:90:A:4FW:CB	1:71:A:TYR:CE1	7	0.12
(1,587)	1:114:A:LEU:CA	1:4:A:TYR:CG	3	0.12
(1,587)	1:114:A:LEU:CA	1:4:A:TYR:CG	9	0.12
(1,536)	1:86:A:SER:CA	1:73:A:VAL:CB	8	0.12
(1,451)	1:90:A:4FW:CA	1:72:A:GLU:C	4	0.12
(1,432)	1:92:A:LEU:CD1	1:61:A:PHE:CD1	9	0.12
(1,290)	1:34:A:VAL:CA	1:106:A:GLU:CG	4	0.12
(1,290)	1:34:A:VAL:CA	1:106:A:GLU:CG	8	0.12
(1,251)	1:130:A:GLY:CA	1:25:A:ILE:CD1	6	0.12
(1,5439)	1:76:A:GLN:CA	1:59:A:ILE:CD1	5	0.11
(1,5414)	1:72:A:GLU:CG	1:64:A:THR:CG2	10	0.11
(1,5320)	1:104:A:ASN:CA	1:36:A:ILE:CG2	2	0.11
(1,5306)	1:36:A:ILE:CA	1:52:A:THR:C	4	0.11
(1,5187)	1:44:A:GLY:CA	1:65:A:LEU:CG	5	0.11
(1,5180)	1:49:A:GLY:CA	1:47:A:LEU:CG	5	0.11
(1,5017)	1:41:A:GLY:C	1:43:A:ASP:CG	10	0.11
(1,5005)	1:30:A:ASP:CA	1:32:A:ASN:CA	7	0.11
(1,5002)	1:63:A:ALA:CB	1:46:A:THR:CG2	8	0.11
(1,4913)	1:71:A:TYR:CG	1:71:A:TYR:CD1	6	0.11
(1,4856)	1:56:A:GLU:CA	1:34:A:VAL:CG1	1	0.11
(1,4856)	1:56:A:GLU:CA	1:34:A:VAL:CG2	1	0.11
(1,4817)	1:86:A:SER:C	1:73:A:VAL:CB	1	0.11
(1,4750)	1:91:A:ILE:CB	1:93:A:GLY:C	7	0.11
(1,4689)	1:8:A:ASN:CB	1:128:A:PHE:C	7	0.11
(1,4654)	1:25:A:ILE:CA	1:92:A:LEU:CG	5	0.11
(1,4535)	1:47:A:LEU:CB	1:40:A:SER:C	1	0.11
(1,4508)	1:50:A:THR:CG2	1:38:A:VAL:CG1	4	0.11
(1,4508)	1:50:A:THR:CG2	1:38:A:VAL:CG2	4	0.11
(1,4302)	1:113:A:THR:CB	1:107:A:SER:CA	10	0.11
(1,4297)	1:61:A:PHE:CA	1:38:A:VAL:CB	3	0.11
(1,4270)	1:106:A:GLU:CG	1:115:A:ASN:C	5	0.11
(1,4254)	1:47:A:LEU:CB	1:39:A:GLU:CB	8	0.11
(1,4143)	1:101:A:VAL:C	1:39:A:GLU:CD	5	0.11
(1,4011)	1:59:A:ILE:CG1	1:61:A:PHE:CD1	3	0.11
(1,4011)	1:59:A:ILE:CG1	1:61:A:PHE:CD1	10	0.11
(1,3903)	1:20:A:GLY:C	1:7:A:GLU:CB	5	0.11
(1,3849)	1:48:A:ASN:CB	1:63:A:ALA:C	10	0.11
(1,3404)	1:86:A:SER:C	1:73:A:VAL:CG1	4	0.11
(1,3404)	1:86:A:SER:C	1:73:A:VAL:CG2	4	0.11
(1,3344)	1:73:A:VAL:CB	1:72:A:GLU:CD	3	0.11
(1,3298)	1:89:A:ASN:CB	1:66:A:LEU:CG	1	0.11
(1,3292)	1:107:A:SER:CA	1:115:A:ASN:C	5	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3292)	1:107:A:SER:CA	1:115:A:ASN:C	10	0.11
(1,3264)	1:69:A:ASN:CA	1:66:A:LEU:C	2	0.11
(1,3264)	1:69:A:ASN:CA	1:66:A:LEU:C	3	0.11
(1,3210)	1:26:A:GLY:CA	1:28:A:ARG:CG	6	0.11
(1,3202)	1:75:A:ASN:CB	1:61:A:PHE:C	1	0.11
(1,3202)	1:75:A:ASN:CB	1:61:A:PHE:C	10	0.11
(1,3008)	1:74:A:GLU:CA	1:61:A:PHE:CB	4	0.11
(1,2831)	1:89:A:ASN:CA	1:24:A:GLU:CB	4	0.11
(1,2831)	1:89:A:ASN:CA	1:24:A:GLU:CB	10	0.11
(1,2777)	1:5:A:ASN:CB	1:22:A:GLN:C	1	0.11
(1,2744)	1:112:A:GLN:CB	1:132:A:LEU:C	8	0.11
(1,2692)	1:92:A:LEU:CA	1:103:A:ILE:CG1	5	0.11
(1,2641)	1:33:A:VAL:CB	1:111:A:GLY:C	4	0.11
(1,2628)	1:4:A:TYR:CB	1:25:A:ILE:CG2	10	0.11
(1,2394)	1:18:A:ASN:CB	1:16:A:PRO:CG	2	0.11
(1,2338)	1:25:A:ILE:CB	1:24:A:GLU:CD	8	0.11
(1,2265)	1:127:A:GLY:CA	1:125:A:PRO:CB	3	0.11
(1,2265)	1:127:A:GLY:CA	1:125:A:PRO:CB	4	0.11
(1,2265)	1:127:A:GLY:CA	1:125:A:PRO:CB	10	0.11
(1,2128)	1:126:A:ILE:CB	1:120:A:TYR:CD2	6	0.11
(1,1921)	1:56:A:GLU:CB	1:59:A:ILE:CG1	3	0.11
(1,1822)	1:38:A:VAL:CB	1:36:A:ILE:CG1	1	0.11
(1,1759)	1:74:A:GLU:CA	1:72:A:GLU:CD	1	0.11
(1,1571)	1:91:A:ILE:CA	1:93:A:GLY:C	3	0.11
(1,1565)	1:101:A:VAL:CA	1:121:A:ALA:C	3	0.11
(1,1565)	1:101:A:VAL:CA	1:121:A:ALA:C	5	0.11
(1,1387)	1:8:A:ASN:CB	1:17:A:4FW:CB	1	0.11
(1,1364)	1:115:A:ASN:CB	1:130:A:GLY:C	5	0.11
(1,1364)	1:115:A:ASN:CB	1:130:A:GLY:C	9	0.11
(1,1310)	1:2:A:ALA:C	1:32:A:ASN:CG	9	0.11
(1,1300)	1:111:A:GLY:CA	1:114:A:LEU:CB	7	0.11
(1,1168)	1:25:A:ILE:CB	1:92:A:LEU:CG	4	0.11
(1,1168)	1:25:A:ILE:CB	1:92:A:LEU:CG	5	0.11
(1,1049)	1:101:A:VAL:CA	1:39:A:GLU:CG	5	0.11
(1,998)	1:119:A:THR:CB	1:121:A:ALA:C	1	0.11
(1,998)	1:119:A:THR:CB	1:121:A:ALA:C	8	0.11
(1,976)	1:67:A:GLY:CA	1:70:A:SER:CB	4	0.11
(1,976)	1:67:A:GLY:CA	1:70:A:SER:CB	8	0.11
(1,933)	1:89:A:ASN:CG	1:66:A:LEU:CG	9	0.11
(1,836)	1:113:A:THR:C	1:109:A:ASP:C	4	0.11
(1,819)	1:133:A:THR:CB	1:2:A:ALA:C	10	0.11
(1,757)	1:8:A:ASN:CA	1:129:A:LYS:C	6	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,587)	1:114:A:LEU:CA	1:4:A:TYR:CG	2	0.11
(1,456)	1:72:A:GLU:CG	1:63:A:ALA:C	2	0.11
(1,451)	1:90:A:4FW:CA	1:72:A:GLU:C	2	0.11
(1,361)	1:25:A:ILE:CG2	1:2:A:ALA:C	2	0.11
(1,235)	1:71:A:TYR:CE1	1:63:A:ALA:C	10	0.11
(1,107)	1:128:A:PHE:CB	1:8:A:ASN:C	2	0.11
(1,5439)	1:76:A:GLN:CA	1:59:A:ILE:CD1	7	0.1
(1,5320)	1:104:A:ASN:CA	1:36:A:ILE:CG2	7	0.1
(1,5187)	1:44:A:GLY:CA	1:65:A:LEU:CG	4	0.1
(1,5151)	1:33:A:VAL:CA	1:110:A:ASP:C	5	0.1
(1,5002)	1:63:A:ALA:CB	1:46:A:THR:CG2	6	0.1
(1,4913)	1:71:A:TYR:CG	1:71:A:TYR:CD1	1	0.1
(1,4913)	1:71:A:TYR:CG	1:71:A:TYR:CD1	2	0.1
(1,4913)	1:71:A:TYR:CG	1:71:A:TYR:CD1	3	0.1
(1,4913)	1:71:A:TYR:CG	1:71:A:TYR:CD1	4	0.1
(1,4913)	1:71:A:TYR:CG	1:71:A:TYR:CD1	5	0.1
(1,4913)	1:71:A:TYR:CG	1:71:A:TYR:CD1	7	0.1
(1,4913)	1:71:A:TYR:CG	1:71:A:TYR:CD1	8	0.1
(1,4913)	1:71:A:TYR:CG	1:71:A:TYR:CD1	9	0.1
(1,4913)	1:71:A:TYR:CG	1:71:A:TYR:CD1	10	0.1
(1,4817)	1:86:A:SER:C	1:73:A:VAL:CB	9	0.1
(1,4535)	1:47:A:LEU:CB	1:40:A:SER:C	9	0.1
(1,4316)	1:92:A:LEU:CD1	1:36:A:ILE:CD1	6	0.1
(1,4302)	1:113:A:THR:CB	1:107:A:SER:CA	4	0.1
(1,4291)	1:71:A:TYR:CA	1:72:A:GLU:CD	5	0.1
(1,4143)	1:101:A:VAL:C	1:39:A:GLU:CD	4	0.1
(1,4046)	1:46:A:THR:CG2	1:64:A:THR:C	9	0.1
(1,3786)	1:28:A:ARG:CD	1:26:A:GLY:C	2	0.1
(1,3670)	1:119:A:THR:CA	1:123:A:GLU:CG	9	0.1
(1,3594)	1:116:A:GLY:CA	1:127:A:GLY:CA	7	0.1
(1,3293)	1:128:A:PHE:CD1	1:118:A:MET:C	2	0.1
(1,3292)	1:107:A:SER:CA	1:115:A:ASN:C	7	0.1
(1,3278)	1:115:A:ASN:CA	1:128:A:PHE:CD1	3	0.1
(1,3245)	1:128:A:PHE:CB	1:115:A:ASN:CB	9	0.1
(1,3245)	1:128:A:PHE:CB	1:115:A:ASN:CB	10	0.1
(1,3202)	1:75:A:ASN:CB	1:61:A:PHE:C	7	0.1
(1,3057)	1:71:A:TYR:CE1	1:100:A:VAL:C	8	0.1
(1,3008)	1:74:A:GLU:CA	1:61:A:PHE:CB	7	0.1
(1,2883)	1:25:A:ILE:CG1	1:4:A:TYR:C	4	0.1
(1,2783)	1:117:A:THR:CG2	1:115:A:ASN:C	2	0.1
(1,2147)	1:101:A:VAL:CA	1:120:A:TYR:CB	9	0.1
(1,2142)	1:87:A:GLY:C	1:72:A:GLU:CG	8	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2010)	1:73:A:VAL:CA	1:90:A:4FW:CA	10	0.1
(1,1921)	1:56:A:GLU:CB	1:59:A:ILE:CG1	6	0.1
(1,1823)	1:25:A:ILE:CB	1:91:A:ILE:C	10	0.1
(1,1822)	1:38:A:VAL:CB	1:36:A:ILE:CG1	4	0.1
(1,1582)	1:106:A:GLU:CB	1:34:A:VAL:CB	7	0.1
(1,1480)	1:19:A:GLU:CD	1:22:A:GLN:CG	1	0.1
(1,832)	1:22:A:GLN:CA	1:91:A:ILE:CB	6	0.1
(1,819)	1:133:A:THR:CB	1:2:A:ALA:C	4	0.1
(1,814)	1:24:A:GLU:CA	1:92:A:LEU:CG	5	0.1
(1,709)	1:48:A:ASN:CA	1:61:A:PHE:CD1	2	0.1
(1,462)	1:99:A:ASN:CA	1:121:A:ALA:C	6	0.1

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

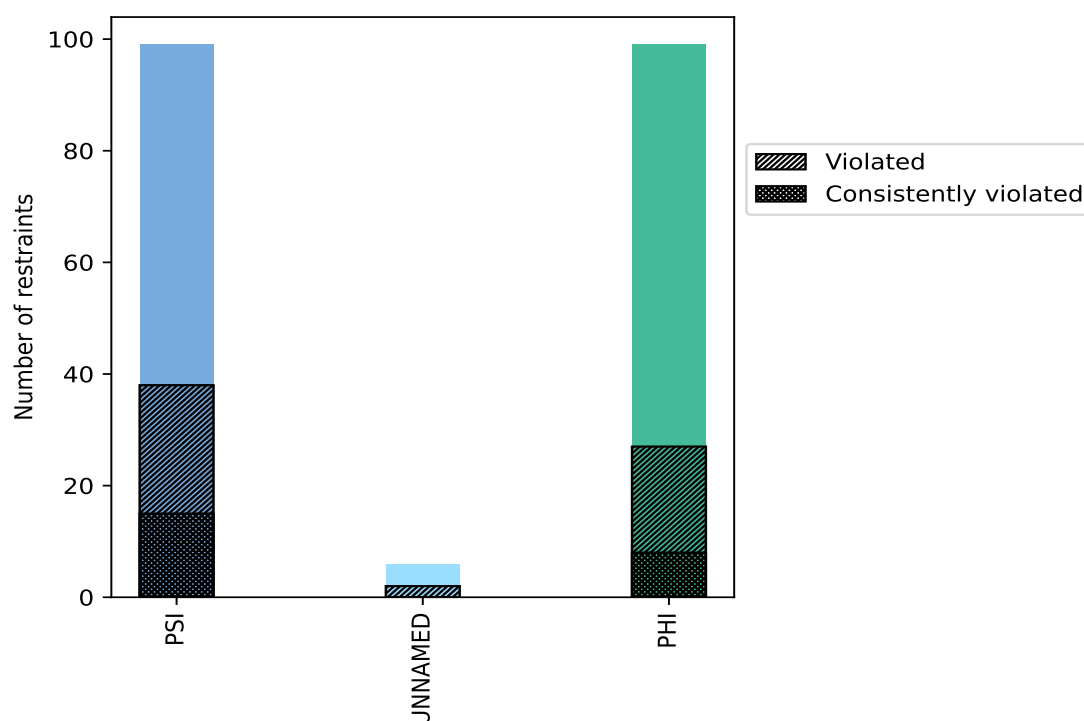
10.1 Summary of dihedral-angle violations [i](#)

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

Angle type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
PSI	99	48.5	38	38.4	18.6	15	15.2	7.4
UNNAMED	6	2.9	2	33.3	1.0	0	0.0	0.0
PHI	99	48.5	27	27.3	13.2	8	8.1	3.9
Total	204	100.0	67	32.8	32.8	23	11.3	11.3

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

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



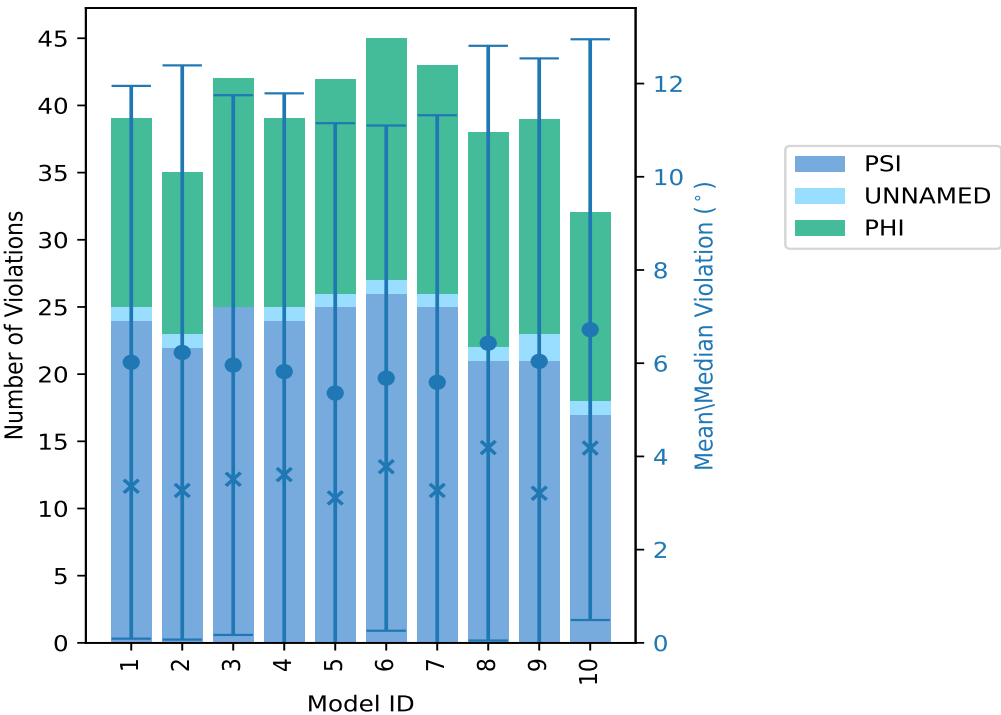
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

10.2 Dihedral-angle violation statistics for each model ⓘ

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

Model ID	Number of violations				Mean (°)	Max (°)	SD (°)	Median (°)
	PSI	UNNAMED	PHI	Total				
1	24	1	14	39	6.02	22.94	5.93	3.36
2	22	1	12	35	6.23	24.05	6.16	3.27
3	25	0	17	42	5.96	22.72	5.79	3.51
4	24	1	14	39	5.82	24.28	5.97	3.61
5	25	1	16	42	5.36	23.91	5.79	3.11
6	26	1	18	45	5.68	24.91	5.42	3.78
7	25	1	17	43	5.59	23.92	5.73	3.27
8	21	1	16	38	6.43	25.35	6.38	4.19
9	21	2	16	39	6.04	27.6	6.5	3.21
10	17	1	14	32	6.72	24.17	6.23	4.18

10.2.1 Bar graph : Dihedral violation statistics for each model ⓘ



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

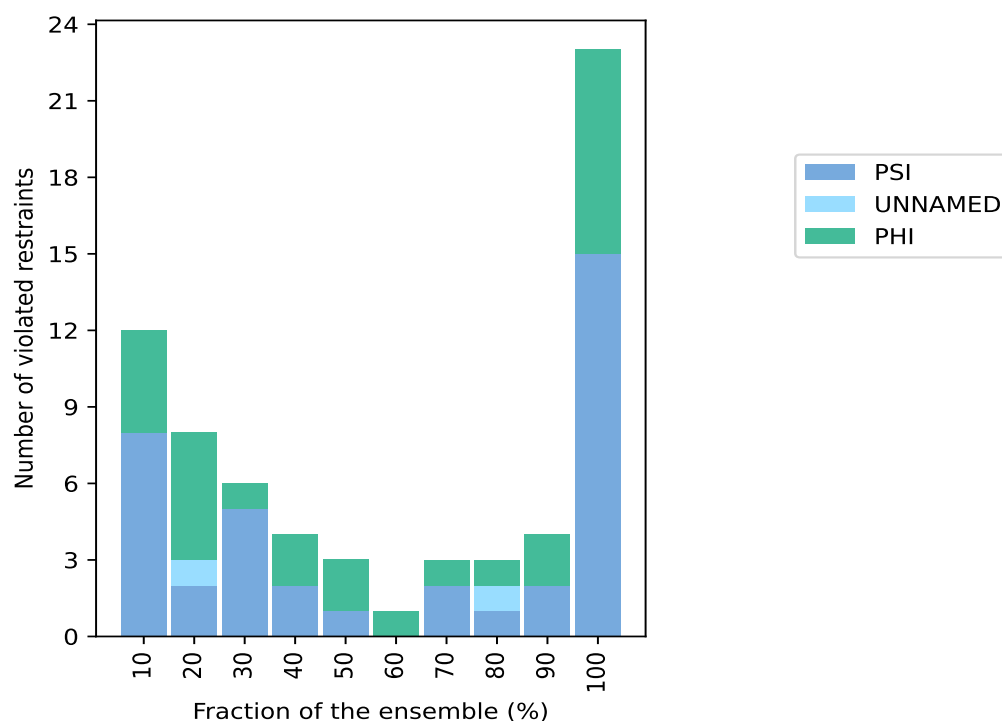
10.3 Dihedral-angle violation statistics for the ensemble [i](#)

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

Number of violated restraints				Fraction of the ensemble	
PSI	UNNAMED	PHI	Total	Count ¹	%
8	0	4	12	1	10.0
2	1	5	8	2	20.0
5	0	1	6	3	30.0
2	0	2	4	4	40.0
1	0	2	3	5	50.0
0	0	1	1	6	60.0
2	0	1	3	7	70.0
1	1	1	3	8	80.0
2	0	2	4	9	90.0
15	0	8	23	10	100.0

¹ Number of models with violations

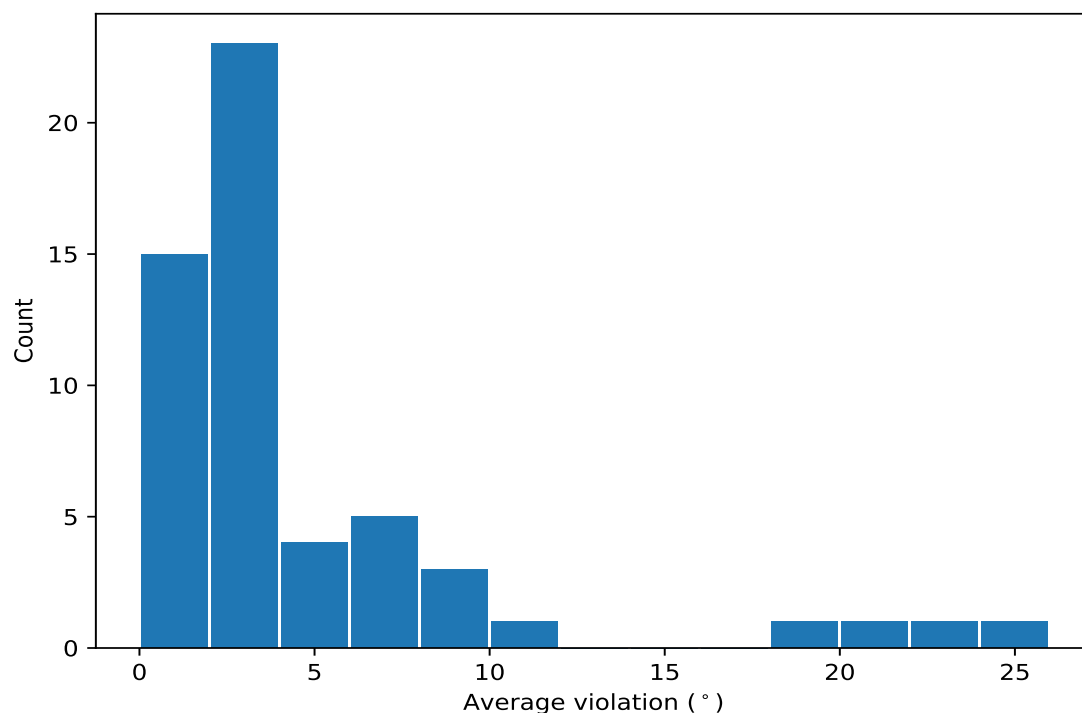
10.3.1 Bar graph : Dihedral-angle Violation statistics for the ensemble [i](#)



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

10.4.1 Histogram : Distribution of mean dihedral-angle violations [i](#)

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



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

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

Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,129)	1:45:A:GLN:N	1:45:A:GLN:CA	1:45:A:GLN:C	1:46:A:THR:N	10	24.38	1.3	24.11
(1,181)	1:112:A:GLN:N	1:112:A:GLN:CA	1:112:A:GLN:C	1:113:A:THR:N	10	22.68	0.9	22.4
(1,83)	1:112:A:GLN:C	1:113:A:THR:N	1:113:A:THR:CA	1:113:A:THR:C	10	20.44	0.49	20.6
(1,31)	1:45:A:GLN:C	1:46:A:THR:N	1:46:A:THR:CA	1:46:A:THR:C	10	18.75	1.09	18.8
(1,68)	1:92:A:LEU:C	1:93:A:GLY:N	1:93:A:GLY:CA	1:93:A:GLY:C	10	11.23	1.96	10.7
(1,132)	1:49:A:GLY:N	1:49:A:GLY:CA	1:49:A:GLY:C	1:50:A:THR:N	10	9.86	1.79	9.6
(1,166)	1:92:A:LEU:N	1:92:A:LEU:CA	1:92:A:LEU:C	1:93:A:GLY:N	10	9.28	2.62	9.03
(1,11)	1:19:A:GLU:C	1:20:A:GLY:N	1:20:A:GLY:CA	1:20:A:GLY:C	10	9.06	1.81	9.43
(1,109)	1:19:A:GLU:N	1:19:A:GLU:CA	1:19:A:GLU:C	1:20:A:GLY:N	10	7.94	1.14	8.0
(1,116)	1:27:A:SER:N	1:27:A:SER:CA	1:27:A:SER:C	1:28:A:ARG:N	10	7.86	2.5	7.76
(1,123)	1:37:A:ASN:N	1:37:A:ASN:CA	1:37:A:ASN:C	1:38:A:VAL:N	10	7.03	0.52	7.18
(1,175)	1:104:A:ASN:N	1:104:A:ASN:CA	1:104:A:ASN:C	1:105:A:VAL:N	10	6.63	0.69	6.7
(1,130)	1:46:A:THR:N	1:46:A:THR:CA	1:46:A:THR:C	1:47:A:LEU:N	10	5.11	0.87	5.29

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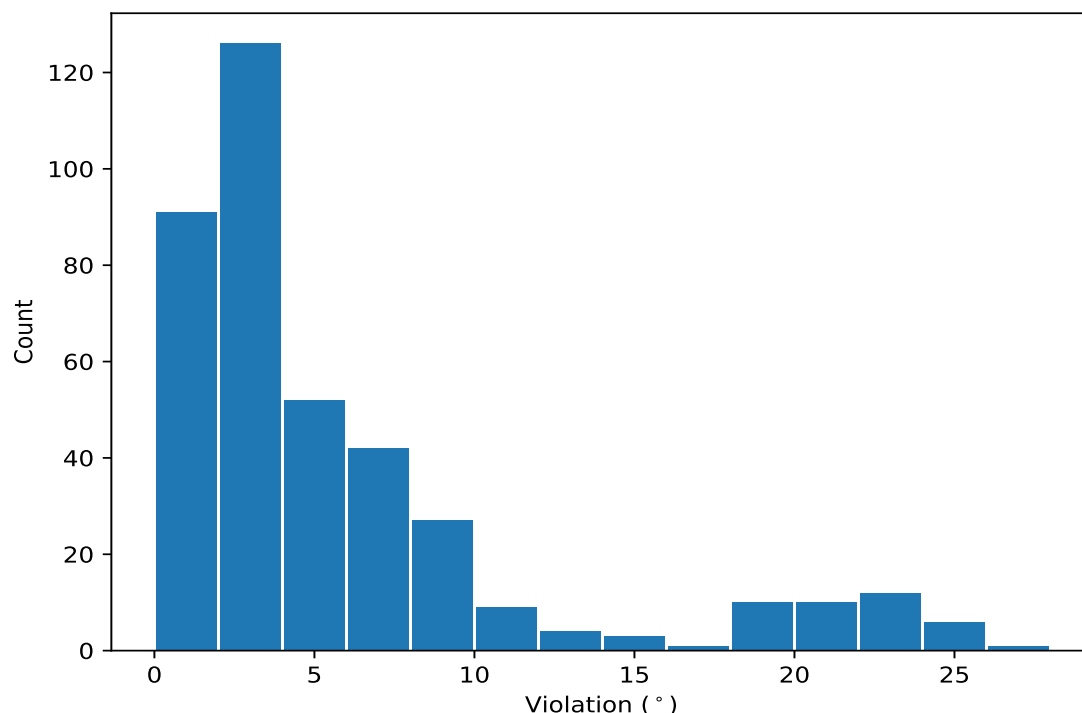
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,63)	1:86:A:SER:C	1:87:A:GLY:N	1:87:A:GLY:CA	1:87:A:GLY:C	10	4.84	0.74	4.49
(1,161)	1:86:A:SER:N	1:86:A:SER:CA	1:86:A:SER:C	1:87:A:GLY:N	10	4.01	0.66	3.8
(1,64)	1:88:A:GLY:C	1:89:A:ASN:N	1:89:A:ASN:CA	1:89:A:ASN:C	10	3.58	0.78	3.84
(1,184)	1:115:A:ASN:N	1:115:A:ASN:CA	1:115:A:ASN:C	1:116:A:GLY:N	10	3.44	1.07	3.3
(1,104)	1:7:A:GLU:N	1:7:A:GLU:CA	1:7:A:GLU:C	1:8:A:ASN:N	10	3.04	0.68	2.82
(1,170)	1:96:A:GLU:N	1:96:A:GLU:CA	1:96:A:GLU:C	1:97:A:ASN:N	10	2.74	0.63	2.52
(1,152)	1:74:A:GLU:N	1:74:A:GLU:CA	1:74:A:GLU:C	1:75:A:ASN:N	10	2.15	0.61	2.04
(1,58)	1:80:A:ASP:C	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	10	2.12	0.99	1.79
(1,32)	1:46:A:THR:C	1:47:A:LEU:N	1:47:A:LEU:CA	1:47:A:LEU:C	10	2.08	0.65	1.88
(1,179)	1:110:A:ASP:N	1:110:A:ASP:CA	1:110:A:ASP:C	1:111:A:GLY:N	10	1.98	0.6	1.72
(1,70)	1:94:A:SER:C	1:95:A:ARG:N	1:95:A:ARG:CA	1:95:A:ARG:C	9	3.05	0.92	3.19
(1,120)	1:32:A:ASN:N	1:32:A:ASN:CA	1:32:A:ASN:C	1:33:A:VAL:N	9	2.95	1.27	2.76
(1,9)	1:13:A:SER:C	1:14:A:SER:N	1:14:A:SER:CA	1:14:A:SER:C	9	2.93	1.19	2.59
(1,172)	1:99:A:ASN:N	1:99:A:ASN:CA	1:99:A:ASN:C	1:100:A:VAL:N	9	2.15	0.44	2.2
(1,18)	1:27:A:SER:C	1:28:A:ARG:N	1:28:A:ARG:CA	1:28:A:ARG:C	8	6.42	1.3	6.1
(1,142)	1:62:A:ARG:N	1:62:A:ARG:CA	1:62:A:ARG:C	1:63:A:ALA:N	8	3.77	0.97	3.78
(1,201)	1:23:A:4FW:CD1	1:23:A:4FW:CG	1:23:A:4FW:CB	1:23:A:4FW:CA	8	3.03	1.43	2.92
(1,111)	1:21:A:GLY:N	1:21:A:GLY:CA	1:21:A:GLY:C	1:22:A:GLN:N	7	3.77	1.99	2.65
(1,71)	1:95:A:ARG:C	1:96:A:GLU:N	1:96:A:GLU:CA	1:96:A:GLU:C	7	1.84	0.61	1.51
(1,180)	1:111:A:GLY:N	1:111:A:GLY:CA	1:111:A:GLY:C	1:112:A:GLN:N	7	1.48	0.16	1.44
(1,94)	1:126:A:ILE:C	1:127:A:GLY:N	1:127:A:GLY:CA	1:127:A:GLY:C	6	1.44	0.34	1.38
(1,15)	1:23:A:4FW:C	1:24:A:GLU:N	1:24:A:GLU:CA	1:24:A:GLU:C	5	3.92	1.86	3.41
(1,168)	1:94:A:SER:N	1:94:A:SER:CA	1:94:A:SER:C	1:95:A:ARG:N	5	2.56	0.97	2.99
(1,33)	1:48:A:ASN:C	1:49:A:GLY:N	1:49:A:GLY:CA	1:49:A:GLY:C	5	1.87	0.38	1.79
(1,13)	1:21:A:GLY:C	1:22:A:GLN:N	1:22:A:GLN:CA	1:22:A:GLN:C	4	5.28	2.4	5.6
(1,157)	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1:82:A:ALA:N	4	2.93	0.46	3.1
(1,12)	1:20:A:GLY:C	1:21:A:GLY:N	1:21:A:GLY:CA	1:21:A:GLY:C	4	1.85	0.58	1.76
(1,178)	1:107:A:SER:N	1:107:A:SER:CA	1:107:A:SER:C	1:108:A:GLY:N	4	1.38	0.29	1.34
(1,103)	1:6:A:VAL:N	1:6:A:VAL:CA	1:6:A:VAL:C	1:7:A:GLU:N	3	2.94	0.66	2.99
(1,105)	1:8:A:ASN:N	1:8:A:ASN:CA	1:8:A:ASN:C	1:9:A:GLN:N	3	2.01	0.51	2.11
(1,195)	1:129:A:LYS:N	1:129:A:LYS:CA	1:129:A:LYS:C	1:130:A:GLY:N	3	1.94	0.69	1.68
(1,14)	1:22:A:GLN:C	1:23:A:4FW:N	1:23:A:4FW:CA	1:23:A:4FW:C	3	1.9	0.41	2.04
(1,141)	1:61:A:PHE:N	1:61:A:PHE:CA	1:61:A:PHE:C	1:62:A:ARG:N	3	1.42	0.19	1.51
(1,163)	1:89:A:ASN:N	1:89:A:ASN:CA	1:89:A:ASN:C	1:90:A:4FW:N	3	1.08	0.03	1.08
(1,113)	1:23:A:4FW:N	1:23:A:4FW:CA	1:23:A:4FW:C	1:24:A:GLU:N	2	3.93	0.82	3.93
(1,17)	1:26:A:GLY:C	1:27:A:SER:N	1:27:A:SER:CA	1:27:A:SER:C	2	3.58	0.31	3.58
(1,204)	1:90:A:4FW:CD1	1:90:A:4FW:CG	1:90:A:4FW:CB	1:90:A:4FW:CA	2	2.34	0.03	2.34
(1,16)	1:24:A:GLU:C	1:25:A:ILE:N	1:25:A:ILE:CA	1:25:A:ILE:C	2	2.06	0.49	2.06
(1,7)	1:8:A:ASN:C	1:9:A:GLN:N	1:9:A:GLN:CA	1:9:A:GLN:C	2	1.72	0.24	1.72
(1,110)	1:20:A:GLY:N	1:20:A:GLY:CA	1:20:A:GLY:C	1:21:A:GLY:N	2	1.58	0.5	1.58
(1,51)	1:71:A:TYR:C	1:72:A:GLU:N	1:72:A:GLU:CA	1:72:A:GLU:C	2	1.24	0.13	1.24
(1,69)	1:93:A:GLY:C	1:94:A:SER:N	1:94:A:SER:CA	1:94:A:SER:C	2	1.23	0.09	1.23

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 (°)
(1,129)	1:45:A:GLN:N	1:45:A:GLN:CA	1:45:A:GLN:C	1:46:A:THR:N	9	27.6
(1,129)	1:45:A:GLN:N	1:45:A:GLN:CA	1:45:A:GLN:C	1:46:A:THR:N	8	25.35
(1,129)	1:45:A:GLN:N	1:45:A:GLN:CA	1:45:A:GLN:C	1:46:A:THR:N	6	24.91
(1,181)	1:112:A:GLN:N	1:112:A:GLN:CA	1:112:A:GLN:C	1:113:A:THR:N	8	24.82
(1,129)	1:45:A:GLN:N	1:45:A:GLN:CA	1:45:A:GLN:C	1:46:A:THR:N	4	24.28
(1,129)	1:45:A:GLN:N	1:45:A:GLN:CA	1:45:A:GLN:C	1:46:A:THR:N	10	24.17
(1,129)	1:45:A:GLN:N	1:45:A:GLN:CA	1:45:A:GLN:C	1:46:A:THR:N	2	24.05
(1,129)	1:45:A:GLN:N	1:45:A:GLN:CA	1:45:A:GLN:C	1:46:A:THR:N	7	23.92
(1,129)	1:45:A:GLN:N	1:45:A:GLN:CA	1:45:A:GLN:C	1:46:A:THR:N	5	23.91
(1,181)	1:112:A:GLN:N	1:112:A:GLN:CA	1:112:A:GLN:C	1:113:A:THR:N	9	23.27
(1,181)	1:112:A:GLN:N	1:112:A:GLN:CA	1:112:A:GLN:C	1:113:A:THR:N	10	23.2
(1,129)	1:45:A:GLN:N	1:45:A:GLN:CA	1:45:A:GLN:C	1:46:A:THR:N	1	22.94
(1,181)	1:112:A:GLN:N	1:112:A:GLN:CA	1:112:A:GLN:C	1:113:A:THR:N	4	22.86
(1,129)	1:45:A:GLN:N	1:45:A:GLN:CA	1:45:A:GLN:C	1:46:A:THR:N	3	22.72

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,181)	1:112:A:GLN:N	1:112:A:GLN:CA	1:112:A:GLN:C	1:113:A:THR:N	3	22.45
(1,181)	1:112:A:GLN:N	1:112:A:GLN:CA	1:112:A:GLN:C	1:113:A:THR:N	1	22.36
(1,181)	1:112:A:GLN:N	1:112:A:GLN:CA	1:112:A:GLN:C	1:113:A:THR:N	7	22.27
(1,181)	1:112:A:GLN:N	1:112:A:GLN:CA	1:112:A:GLN:C	1:113:A:THR:N	2	22.22
(1,181)	1:112:A:GLN:N	1:112:A:GLN:CA	1:112:A:GLN:C	1:113:A:THR:N	5	22.05
(1,181)	1:112:A:GLN:N	1:112:A:GLN:CA	1:112:A:GLN:C	1:113:A:THR:N	6	21.29
(1,83)	1:112:A:GLN:C	1:113:A:THR:N	1:113:A:THR:CA	1:113:A:THR:C	10	21.1
(1,31)	1:45:A:GLN:C	1:46:A:THR:N	1:46:A:THR:CA	1:46:A:THR:C	9	21.07
(1,83)	1:112:A:GLN:C	1:113:A:THR:N	1:113:A:THR:CA	1:113:A:THR:C	9	20.84
(1,83)	1:112:A:GLN:C	1:113:A:THR:N	1:113:A:THR:CA	1:113:A:THR:C	8	20.75
(1,83)	1:112:A:GLN:C	1:113:A:THR:N	1:113:A:THR:CA	1:113:A:THR:C	2	20.68
(1,83)	1:112:A:GLN:C	1:113:A:THR:N	1:113:A:THR:CA	1:113:A:THR:C	5	20.68
(1,83)	1:112:A:GLN:C	1:113:A:THR:N	1:113:A:THR:CA	1:113:A:THR:C	4	20.51
(1,83)	1:112:A:GLN:C	1:113:A:THR:N	1:113:A:THR:CA	1:113:A:THR:C	1	20.34
(1,83)	1:112:A:GLN:C	1:113:A:THR:N	1:113:A:THR:CA	1:113:A:THR:C	3	20.34
(1,83)	1:112:A:GLN:C	1:113:A:THR:N	1:113:A:THR:CA	1:113:A:THR:C	7	19.69
(1,83)	1:112:A:GLN:C	1:113:A:THR:N	1:113:A:THR:CA	1:113:A:THR:C	6	19.46
(1,31)	1:45:A:GLN:C	1:46:A:THR:N	1:46:A:THR:CA	1:46:A:THR:C	7	19.44
(1,31)	1:45:A:GLN:C	1:46:A:THR:N	1:46:A:THR:CA	1:46:A:THR:C	5	19.16
(1,31)	1:45:A:GLN:C	1:46:A:THR:N	1:46:A:THR:CA	1:46:A:THR:C	8	19.14
(1,31)	1:45:A:GLN:C	1:46:A:THR:N	1:46:A:THR:CA	1:46:A:THR:C	4	18.93
(1,31)	1:45:A:GLN:C	1:46:A:THR:N	1:46:A:THR:CA	1:46:A:THR:C	2	18.67
(1,31)	1:45:A:GLN:C	1:46:A:THR:N	1:46:A:THR:CA	1:46:A:THR:C	1	18.36
(1,31)	1:45:A:GLN:C	1:46:A:THR:N	1:46:A:THR:CA	1:46:A:THR:C	10	18.08
(1,31)	1:45:A:GLN:C	1:46:A:THR:N	1:46:A:THR:CA	1:46:A:THR:C	3	18.01
(1,31)	1:45:A:GLN:C	1:46:A:THR:N	1:46:A:THR:CA	1:46:A:THR:C	6	16.64
(1,68)	1:92:A:LEU:C	1:93:A:GLY:N	1:93:A:GLY:CA	1:93:A:GLY:C	3	14.88
(1,166)	1:92:A:LEU:N	1:92:A:LEU:CA	1:92:A:LEU:C	1:93:A:GLY:N	8	14.79
(1,68)	1:92:A:LEU:C	1:93:A:GLY:N	1:93:A:GLY:CA	1:93:A:GLY:C	8	14.48
(1,116)	1:27:A:SER:N	1:27:A:SER:CA	1:27:A:SER:C	1:28:A:ARG:N	1	13.24
(1,132)	1:49:A:GLY:N	1:49:A:GLY:CA	1:49:A:GLY:C	1:50:A:THR:N	4	13.18
(1,132)	1:49:A:GLY:N	1:49:A:GLY:CA	1:49:A:GLY:C	1:50:A:THR:N	7	12.61
(1,11)	1:19:A:GLU:C	1:20:A:GLY:N	1:20:A:GLY:CA	1:20:A:GLY:C	6	12.43
(1,68)	1:92:A:LEU:C	1:93:A:GLY:N	1:93:A:GLY:CA	1:93:A:GLY:C	1	11.92
(1,166)	1:92:A:LEU:N	1:92:A:LEU:CA	1:92:A:LEU:C	1:93:A:GLY:N	3	11.82
(1,68)	1:92:A:LEU:C	1:93:A:GLY:N	1:93:A:GLY:CA	1:93:A:GLY:C	10	11.7
(1,11)	1:19:A:GLU:C	1:20:A:GLY:N	1:20:A:GLY:CA	1:20:A:GLY:C	9	10.8
(1,68)	1:92:A:LEU:C	1:93:A:GLY:N	1:93:A:GLY:CA	1:93:A:GLY:C	7	10.74
(1,166)	1:92:A:LEU:N	1:92:A:LEU:CA	1:92:A:LEU:C	1:93:A:GLY:N	1	10.67
(1,68)	1:92:A:LEU:C	1:93:A:GLY:N	1:93:A:GLY:CA	1:93:A:GLY:C	9	10.66
(1,132)	1:49:A:GLY:N	1:49:A:GLY:CA	1:49:A:GLY:C	1:50:A:THR:N	2	10.58
(1,166)	1:92:A:LEU:N	1:92:A:LEU:CA	1:92:A:LEU:C	1:93:A:GLY:N	9	10.37
(1,116)	1:27:A:SER:N	1:27:A:SER:CA	1:27:A:SER:C	1:28:A:ARG:N	2	9.96
(1,68)	1:92:A:LEU:C	1:93:A:GLY:N	1:93:A:GLY:CA	1:93:A:GLY:C	6	9.95
(1,11)	1:19:A:GLU:C	1:20:A:GLY:N	1:20:A:GLY:CA	1:20:A:GLY:C	7	9.86
(1,11)	1:19:A:GLU:C	1:20:A:GLY:N	1:20:A:GLY:CA	1:20:A:GLY:C	5	9.82
(1,132)	1:49:A:GLY:N	1:49:A:GLY:CA	1:49:A:GLY:C	1:50:A:THR:N	9	9.75
(1,166)	1:92:A:LEU:N	1:92:A:LEU:CA	1:92:A:LEU:C	1:93:A:GLY:N	10	9.74
(1,68)	1:92:A:LEU:C	1:93:A:GLY:N	1:93:A:GLY:CA	1:93:A:GLY:C	2	9.68
(1,11)	1:19:A:GLU:C	1:20:A:GLY:N	1:20:A:GLY:CA	1:20:A:GLY:C	2	9.66
(1,68)	1:92:A:LEU:C	1:93:A:GLY:N	1:93:A:GLY:CA	1:93:A:GLY:C	5	9.65

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,132)	1:49:A:GLY:N	1:49:A:GLY:CA	1:49:A:GLY:C	1:50:A:THR:N	10	9.61
(1,116)	1:27:A:SER:N	1:27:A:SER:CA	1:27:A:SER:C	1:28:A:ARG:N	3	9.61
(1,109)	1:19:A:GLU:N	1:19:A:GLU:CA	1:19:A:GLU:C	1:20:A:GLY:N	2	9.61
(1,132)	1:49:A:GLY:N	1:49:A:GLY:CA	1:49:A:GLY:C	1:50:A:THR:N	3	9.59
(1,109)	1:19:A:GLU:N	1:19:A:GLU:CA	1:19:A:GLU:C	1:20:A:GLY:N	9	9.5
(1,18)	1:27:A:SER:C	1:28:A:ARG:N	1:28:A:ARG:CA	1:28:A:ARG:C	1	9.36
(1,109)	1:19:A:GLU:N	1:19:A:GLU:CA	1:19:A:GLU:C	1:20:A:GLY:N	6	9.23
(1,132)	1:49:A:GLY:N	1:49:A:GLY:CA	1:49:A:GLY:C	1:50:A:THR:N	6	9.21
(1,11)	1:19:A:GLU:C	1:20:A:GLY:N	1:20:A:GLY:CA	1:20:A:GLY:C	3	9.2
(1,132)	1:49:A:GLY:N	1:49:A:GLY:CA	1:49:A:GLY:C	1:50:A:THR:N	5	8.71
(1,68)	1:92:A:LEU:C	1:93:A:GLY:N	1:93:A:GLY:CA	1:93:A:GLY:C	4	8.67
(1,132)	1:49:A:GLY:N	1:49:A:GLY:CA	1:49:A:GLY:C	1:50:A:THR:N	1	8.6
(1,166)	1:92:A:LEU:N	1:92:A:LEU:CA	1:92:A:LEU:C	1:93:A:GLY:N	7	8.32
(1,116)	1:27:A:SER:N	1:27:A:SER:CA	1:27:A:SER:C	1:28:A:ARG:N	6	8.27
(1,109)	1:19:A:GLU:N	1:19:A:GLU:CA	1:19:A:GLU:C	1:20:A:GLY:N	3	8.15
(1,116)	1:27:A:SER:N	1:27:A:SER:CA	1:27:A:SER:C	1:28:A:ARG:N	4	8.13
(1,123)	1:37:A:ASN:N	1:37:A:ASN:CA	1:37:A:ASN:C	1:38:A:VAL:N	5	8.05
(1,109)	1:19:A:GLU:N	1:19:A:GLU:CA	1:19:A:GLU:C	1:20:A:GLY:N	1	8.05
(1,109)	1:19:A:GLU:N	1:19:A:GLU:CA	1:19:A:GLU:C	1:20:A:GLY:N	5	7.95
(1,175)	1:104:A:ASN:N	1:104:A:ASN:CA	1:104:A:ASN:C	1:105:A:VAL:N	5	7.91
(1,11)	1:19:A:GLU:C	1:20:A:GLY:N	1:20:A:GLY:CA	1:20:A:GLY:C	8	7.81
(1,13)	1:21:A:GLY:C	1:22:A:GLN:N	1:22:A:GLN:CA	1:22:A:GLN:C	8	7.78
(1,11)	1:19:A:GLU:C	1:20:A:GLY:N	1:20:A:GLY:CA	1:20:A:GLY:C	10	7.76
(1,166)	1:92:A:LEU:N	1:92:A:LEU:CA	1:92:A:LEU:C	1:93:A:GLY:N	4	7.43
(1,13)	1:21:A:GLY:C	1:22:A:GLN:N	1:22:A:GLN:CA	1:22:A:GLN:C	3	7.43
(1,166)	1:92:A:LEU:N	1:92:A:LEU:CA	1:92:A:LEU:C	1:93:A:GLY:N	5	7.41
(1,123)	1:37:A:ASN:N	1:37:A:ASN:CA	1:37:A:ASN:C	1:38:A:VAL:N	10	7.41
(1,11)	1:19:A:GLU:C	1:20:A:GLY:N	1:20:A:GLY:CA	1:20:A:GLY:C	4	7.41
(1,116)	1:27:A:SER:N	1:27:A:SER:CA	1:27:A:SER:C	1:28:A:ARG:N	7	7.39
(1,18)	1:27:A:SER:C	1:28:A:ARG:N	1:28:A:ARG:CA	1:28:A:ARG:C	6	7.34
(1,123)	1:37:A:ASN:N	1:37:A:ASN:CA	1:37:A:ASN:C	1:38:A:VAL:N	7	7.3
(1,175)	1:104:A:ASN:N	1:104:A:ASN:CA	1:104:A:ASN:C	1:105:A:VAL:N	6	7.27
(1,123)	1:37:A:ASN:N	1:37:A:ASN:CA	1:37:A:ASN:C	1:38:A:VAL:N	2	7.21
(1,123)	1:37:A:ASN:N	1:37:A:ASN:CA	1:37:A:ASN:C	1:38:A:VAL:N	1	7.19
(1,123)	1:37:A:ASN:N	1:37:A:ASN:CA	1:37:A:ASN:C	1:38:A:VAL:N	8	7.16
(1,15)	1:23:A:4FW:C	1:24:A:GLU:N	1:24:A:GLU:CA	1:24:A:GLU:C	6	7.14
(1,109)	1:19:A:GLU:N	1:19:A:GLU:CA	1:19:A:GLU:C	1:20:A:GLY:N	8	7.1
(1,175)	1:104:A:ASN:N	1:104:A:ASN:CA	1:104:A:ASN:C	1:105:A:VAL:N	1	7.08
(1,111)	1:21:A:GLY:N	1:21:A:GLY:CA	1:21:A:GLY:C	1:22:A:GLN:N	8	7.04
(1,109)	1:19:A:GLU:N	1:19:A:GLU:CA	1:19:A:GLU:C	1:20:A:GLY:N	4	6.99
(1,166)	1:92:A:LEU:N	1:92:A:LEU:CA	1:92:A:LEU:C	1:93:A:GLY:N	2	6.88
(1,123)	1:37:A:ASN:N	1:37:A:ASN:CA	1:37:A:ASN:C	1:38:A:VAL:N	9	6.84
(1,116)	1:27:A:SER:N	1:27:A:SER:CA	1:27:A:SER:C	1:28:A:ARG:N	10	6.84
(1,132)	1:49:A:GLY:N	1:49:A:GLY:CA	1:49:A:GLY:C	1:50:A:THR:N	8	6.79
(1,175)	1:104:A:ASN:N	1:104:A:ASN:CA	1:104:A:ASN:C	1:105:A:VAL:N	8	6.78
(1,175)	1:104:A:ASN:N	1:104:A:ASN:CA	1:104:A:ASN:C	1:105:A:VAL:N	9	6.72
(1,111)	1:21:A:GLY:N	1:21:A:GLY:CA	1:21:A:GLY:C	1:22:A:GLN:N	3	6.7
(1,175)	1:104:A:ASN:N	1:104:A:ASN:CA	1:104:A:ASN:C	1:105:A:VAL:N	4	6.69
(1,123)	1:37:A:ASN:N	1:37:A:ASN:CA	1:37:A:ASN:C	1:38:A:VAL:N	6	6.6
(1,109)	1:19:A:GLU:N	1:19:A:GLU:CA	1:19:A:GLU:C	1:20:A:GLY:N	10	6.46
(1,175)	1:104:A:ASN:N	1:104:A:ASN:CA	1:104:A:ASN:C	1:105:A:VAL:N	3	6.42

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,123)	1:37:A:ASN:N	1:37:A:ASN:CA	1:37:A:ASN:C	1:38:A:VAL:N	3	6.41
(1,109)	1:19:A:GLU:N	1:19:A:GLU:CA	1:19:A:GLU:C	1:20:A:GLY:N	7	6.41
(1,175)	1:104:A:ASN:N	1:104:A:ASN:CA	1:104:A:ASN:C	1:105:A:VAL:N	10	6.33
(1,18)	1:27:A:SER:C	1:28:A:ARG:N	1:28:A:ARG:CA	1:28:A:ARG:C	3	6.25
(1,18)	1:27:A:SER:C	1:28:A:ARG:N	1:28:A:ARG:CA	1:28:A:ARG:C	4	6.18
(1,130)	1:46:A:THR:N	1:46:A:THR:CA	1:46:A:THR:C	1:47:A:LEU:N	5	6.17
(1,123)	1:37:A:ASN:N	1:37:A:ASN:CA	1:37:A:ASN:C	1:38:A:VAL:N	4	6.16
(1,63)	1:86:A:SER:C	1:87:A:GLY:N	1:87:A:GLY:CA	1:87:A:GLY:C	9	6.03
(1,18)	1:27:A:SER:C	1:28:A:ARG:N	1:28:A:ARG:CA	1:28:A:ARG:C	10	6.01
(1,130)	1:46:A:THR:N	1:46:A:THR:CA	1:46:A:THR:C	1:47:A:LEU:N	7	5.97
(1,130)	1:46:A:THR:N	1:46:A:THR:CA	1:46:A:THR:C	1:47:A:LEU:N	4	5.95
(1,63)	1:86:A:SER:C	1:87:A:GLY:N	1:87:A:GLY:CA	1:87:A:GLY:C	6	5.94
(1,175)	1:104:A:ASN:N	1:104:A:ASN:CA	1:104:A:ASN:C	1:105:A:VAL:N	2	5.83
(1,18)	1:27:A:SER:C	1:28:A:ARG:N	1:28:A:ARG:CA	1:28:A:ARG:C	7	5.8
(1,11)	1:19:A:GLU:C	1:20:A:GLY:N	1:20:A:GLY:CA	1:20:A:GLY:C	1	5.8
(1,18)	1:27:A:SER:C	1:28:A:ARG:N	1:28:A:ARG:CA	1:28:A:ARG:C	8	5.69
(1,130)	1:46:A:THR:N	1:46:A:THR:CA	1:46:A:THR:C	1:47:A:LEU:N	2	5.67
(1,130)	1:46:A:THR:N	1:46:A:THR:CA	1:46:A:THR:C	1:47:A:LEU:N	6	5.62
(1,184)	1:115:A:ASN:N	1:115:A:ASN:CA	1:115:A:ASN:C	1:116:A:GLY:N	2	5.61
(1,9)	1:13:A:SER:C	1:14:A:SER:N	1:14:A:SER:CA	1:14:A:SER:C	7	5.58
(1,63)	1:86:A:SER:C	1:87:A:GLY:N	1:87:A:GLY:CA	1:87:A:GLY:C	3	5.56
(1,120)	1:32:A:ASN:N	1:32:A:ASN:CA	1:32:A:ASN:C	1:33:A:VAL:N	1	5.55
(1,142)	1:62:A:ARG:N	1:62:A:ARG:CA	1:62:A:ARG:C	1:63:A:ALA:N	2	5.53
(1,112)	1:22:A:GLN:N	1:22:A:GLN:CA	1:22:A:GLN:C	1:23:A:4FW:N	6	5.51
(1,116)	1:27:A:SER:N	1:27:A:SER:CA	1:27:A:SER:C	1:28:A:ARG:N	9	5.46
(1,166)	1:92:A:LEU:N	1:92:A:LEU:CA	1:92:A:LEU:C	1:93:A:GLY:N	6	5.39
(1,201)	1:23:A:4FW:CD1	1:23:A:4FW:CG	1:23:A:4FW:CB	1:23:A:4FW:CA	9	5.37
(1,116)	1:27:A:SER:N	1:27:A:SER:CA	1:27:A:SER:C	1:28:A:ARG:N	8	5.35
(1,175)	1:104:A:ASN:N	1:104:A:ASN:CA	1:104:A:ASN:C	1:105:A:VAL:N	7	5.31
(1,63)	1:86:A:SER:C	1:87:A:GLY:N	1:87:A:GLY:CA	1:87:A:GLY:C	8	5.26
(1,161)	1:86:A:SER:N	1:86:A:SER:CA	1:86:A:SER:C	1:87:A:GLY:N	3	5.09
(1,161)	1:86:A:SER:N	1:86:A:SER:CA	1:86:A:SER:C	1:87:A:GLY:N	9	5.05
(1,64)	1:88:A:GLY:C	1:89:A:ASN:N	1:89:A:ASN:CA	1:89:A:ASN:C	8	4.99
(1,130)	1:46:A:THR:N	1:46:A:THR:CA	1:46:A:THR:C	1:47:A:LEU:N	9	4.96
(1,201)	1:23:A:4FW:CD1	1:23:A:4FW:CG	1:23:A:4FW:CB	1:23:A:4FW:CA	10	4.95
(1,130)	1:46:A:THR:N	1:46:A:THR:CA	1:46:A:THR:C	1:47:A:LEU:N	8	4.88
(1,113)	1:23:A:4FW:N	1:23:A:4FW:CA	1:23:A:4FW:C	1:24:A:GLU:N	6	4.75
(1,18)	1:27:A:SER:C	1:28:A:ARG:N	1:28:A:ARG:CA	1:28:A:ARG:C	2	4.71
(1,161)	1:86:A:SER:N	1:86:A:SER:CA	1:86:A:SER:C	1:87:A:GLY:N	6	4.57
(1,70)	1:94:A:SER:C	1:95:A:ARG:N	1:95:A:ARG:CA	1:95:A:ARG:C	8	4.54
(1,63)	1:86:A:SER:C	1:87:A:GLY:N	1:87:A:GLY:CA	1:87:A:GLY:C	5	4.53
(1,63)	1:86:A:SER:C	1:87:A:GLY:N	1:87:A:GLY:CA	1:87:A:GLY:C	7	4.45
(1,15)	1:23:A:4FW:C	1:24:A:GLU:N	1:24:A:GLU:CA	1:24:A:GLU:C	3	4.44
(1,184)	1:115:A:ASN:N	1:115:A:ASN:CA	1:115:A:ASN:C	1:116:A:GLY:N	7	4.39
(1,63)	1:86:A:SER:C	1:87:A:GLY:N	1:87:A:GLY:CA	1:87:A:GLY:C	10	4.39
(1,142)	1:62:A:ARG:N	1:62:A:ARG:CA	1:62:A:ARG:C	1:63:A:ALA:N	6	4.38
(1,142)	1:62:A:ARG:N	1:62:A:ARG:CA	1:62:A:ARG:C	1:63:A:ALA:N	4	4.36
(1,184)	1:115:A:ASN:N	1:115:A:ASN:CA	1:115:A:ASN:C	1:116:A:GLY:N	6	4.34
(1,104)	1:7:A:GLU:N	1:7:A:GLU:CA	1:7:A:GLU:C	1:8:A:ASN:N	7	4.34
(1,63)	1:86:A:SER:C	1:87:A:GLY:N	1:87:A:GLY:CA	1:87:A:GLY:C	4	4.33
(1,116)	1:27:A:SER:N	1:27:A:SER:CA	1:27:A:SER:C	1:28:A:ARG:N	5	4.3

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,58)	1:80:A:ASP:C	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1	4.27
(1,104)	1:7:A:GLU:N	1:7:A:GLU:CA	1:7:A:GLU:C	1:8:A:ASN:N	5	4.24
(1,161)	1:86:A:SER:N	1:86:A:SER:CA	1:86:A:SER:C	1:87:A:GLY:N	7	4.23
(1,130)	1:46:A:THR:N	1:46:A:THR:CA	1:46:A:THR:C	1:47:A:LEU:N	1	4.19
(1,130)	1:46:A:THR:N	1:46:A:THR:CA	1:46:A:THR:C	1:47:A:LEU:N	10	4.19
(1,64)	1:88:A:GLY:C	1:89:A:ASN:N	1:89:A:ASN:CA	1:89:A:ASN:C	10	4.16
(1,142)	1:62:A:ARG:N	1:62:A:ARG:CA	1:62:A:ARG:C	1:63:A:ALA:N	7	4.14
(1,120)	1:32:A:ASN:N	1:32:A:ASN:CA	1:32:A:ASN:C	1:33:A:VAL:N	3	4.04
(1,64)	1:88:A:GLY:C	1:89:A:ASN:N	1:89:A:ASN:CA	1:89:A:ASN:C	9	4.0
(1,63)	1:86:A:SER:C	1:87:A:GLY:N	1:87:A:GLY:CA	1:87:A:GLY:C	1	4.0
(1,64)	1:88:A:GLY:C	1:89:A:ASN:N	1:89:A:ASN:CA	1:89:A:ASN:C	4	3.98
(1,70)	1:94:A:SER:C	1:95:A:ARG:N	1:95:A:ARG:CA	1:95:A:ARG:C	3	3.95
(1,63)	1:86:A:SER:C	1:87:A:GLY:N	1:87:A:GLY:CA	1:87:A:GLY:C	2	3.95
(1,170)	1:96:A:GLU:N	1:96:A:GLU:CA	1:96:A:GLU:C	1:97:A:ASN:N	6	3.93
(1,17)	1:26:A:GLY:C	1:27:A:SER:N	1:27:A:SER:CA	1:27:A:SER:C	9	3.89
(1,64)	1:88:A:GLY:C	1:89:A:ASN:N	1:89:A:ASN:CA	1:89:A:ASN:C	7	3.85
(1,161)	1:86:A:SER:N	1:86:A:SER:CA	1:86:A:SER:C	1:87:A:GLY:N	8	3.83
(1,70)	1:94:A:SER:C	1:95:A:ARG:N	1:95:A:ARG:CA	1:95:A:ARG:C	1	3.82
(1,64)	1:88:A:GLY:C	1:89:A:ASN:N	1:89:A:ASN:CA	1:89:A:ASN:C	5	3.82
(1,13)	1:21:A:GLY:C	1:22:A:GLN:N	1:22:A:GLN:CA	1:22:A:GLN:C	6	3.78
(1,161)	1:86:A:SER:N	1:86:A:SER:CA	1:86:A:SER:C	1:87:A:GLY:N	10	3.77
(1,184)	1:115:A:ASN:N	1:115:A:ASN:CA	1:115:A:ASN:C	1:116:A:GLY:N	5	3.75
(1,161)	1:86:A:SER:N	1:86:A:SER:CA	1:86:A:SER:C	1:87:A:GLY:N	1	3.74
(1,103)	1:6:A:VAL:N	1:6:A:VAL:CA	1:6:A:VAL:C	1:7:A:GLU:N	4	3.73
(1,170)	1:96:A:GLU:N	1:96:A:GLU:CA	1:96:A:GLU:C	1:97:A:ASN:N	4	3.7
(1,9)	1:13:A:SER:C	1:14:A:SER:N	1:14:A:SER:CA	1:14:A:SER:C	8	3.67
(1,120)	1:32:A:ASN:N	1:32:A:ASN:CA	1:32:A:ASN:C	1:33:A:VAL:N	4	3.61
(1,32)	1:46:A:THR:C	1:47:A:LEU:N	1:47:A:LEU:CA	1:47:A:LEU:C	6	3.6
(1,9)	1:13:A:SER:C	1:14:A:SER:N	1:14:A:SER:CA	1:14:A:SER:C	5	3.6
(1,168)	1:94:A:SER:N	1:94:A:SER:CA	1:94:A:SER:C	1:95:A:ARG:N	3	3.56
(1,130)	1:46:A:THR:N	1:46:A:THR:CA	1:46:A:THR:C	1:47:A:LEU:N	3	3.46
(1,168)	1:94:A:SER:N	1:94:A:SER:CA	1:94:A:SER:C	1:95:A:ARG:N	9	3.43
(1,142)	1:62:A:ARG:N	1:62:A:ARG:CA	1:62:A:ARG:C	1:63:A:ALA:N	5	3.42
(1,15)	1:23:A:4FW:C	1:24:A:GLU:N	1:24:A:GLU:CA	1:24:A:GLU:C	5	3.41
(1,184)	1:115:A:ASN:N	1:115:A:ASN:CA	1:115:A:ASN:C	1:116:A:GLY:N	10	3.39
(1,161)	1:86:A:SER:N	1:86:A:SER:CA	1:86:A:SER:C	1:87:A:GLY:N	4	3.39
(1,201)	1:23:A:4FW:CD1	1:23:A:4FW:CG	1:23:A:4FW:CB	1:23:A:4FW:CA	1	3.36
(1,142)	1:62:A:ARG:N	1:62:A:ARG:CA	1:62:A:ARG:C	1:63:A:ALA:N	10	3.36
(1,157)	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1:82:A:ALA:N	1	3.35
(1,120)	1:32:A:ASN:N	1:32:A:ASN:CA	1:32:A:ASN:C	1:33:A:VAL:N	6	3.32
(1,58)	1:80:A:ASP:C	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	10	3.31
(1,152)	1:74:A:GLU:N	1:74:A:GLU:CA	1:74:A:GLU:C	1:75:A:ASN:N	1	3.3
(1,161)	1:86:A:SER:N	1:86:A:SER:CA	1:86:A:SER:C	1:87:A:GLY:N	2	3.27
(1,17)	1:26:A:GLY:C	1:27:A:SER:N	1:27:A:SER:CA	1:27:A:SER:C	7	3.27
(1,157)	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1:82:A:ALA:N	4	3.26
(1,111)	1:21:A:GLY:N	1:21:A:GLY:CA	1:21:A:GLY:C	1:22:A:GLN:N	6	3.24
(1,104)	1:7:A:GLU:N	1:7:A:GLU:CA	1:7:A:GLU:C	1:8:A:ASN:N	10	3.24
(1,184)	1:115:A:ASN:N	1:115:A:ASN:CA	1:115:A:ASN:C	1:116:A:GLY:N	9	3.21
(1,161)	1:86:A:SER:N	1:86:A:SER:CA	1:86:A:SER:C	1:87:A:GLY:N	5	3.2
(1,70)	1:94:A:SER:C	1:95:A:ARG:N	1:95:A:ARG:CA	1:95:A:ARG:C	9	3.2
(1,70)	1:94:A:SER:C	1:95:A:ARG:N	1:95:A:ARG:CA	1:95:A:ARG:C	4	3.19

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,179)	1:110:A:ASP:N	1:110:A:ASP:CA	1:110:A:ASP:C	1:111:A:GLY:N	8	3.18
(1,9)	1:13:A:SER:C	1:14:A:SER:N	1:14:A:SER:CA	1:14:A:SER:C	4	3.17
(1,184)	1:115:A:ASN:N	1:115:A:ASN:CA	1:115:A:ASN:C	1:116:A:GLY:N	4	3.16
(1,64)	1:88:A:GLY:C	1:89:A:ASN:N	1:89:A:ASN:CA	1:89:A:ASN:C	3	3.15
(1,113)	1:23:A:4FW:N	1:23:A:4FW:CA	1:23:A:4FW:C	1:24:A:GLU:N	3	3.11
(1,170)	1:96:A:GLU:N	1:96:A:GLU:CA	1:96:A:GLU:C	1:97:A:ASN:N	10	3.1
(1,15)	1:23:A:4FW:C	1:24:A:GLU:N	1:24:A:GLU:CA	1:24:A:GLU:C	8	3.08
(1,201)	1:23:A:4FW:CD1	1:23:A:4FW:CG	1:23:A:4FW:CB	1:23:A:4FW:CA	6	3.07
(1,70)	1:94:A:SER:C	1:95:A:ARG:N	1:95:A:ARG:CA	1:95:A:ARG:C	5	3.02
(1,168)	1:94:A:SER:N	1:94:A:SER:CA	1:94:A:SER:C	1:95:A:ARG:N	8	2.99
(1,103)	1:6:A:VAL:N	1:6:A:VAL:CA	1:6:A:VAL:C	1:7:A:GLU:N	7	2.99
(1,170)	1:96:A:GLU:N	1:96:A:GLU:CA	1:96:A:GLU:C	1:97:A:ASN:N	3	2.95
(1,152)	1:74:A:GLU:N	1:74:A:GLU:CA	1:74:A:GLU:C	1:75:A:ASN:N	3	2.95
(1,157)	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1:82:A:ALA:N	6	2.94
(1,104)	1:7:A:GLU:N	1:7:A:GLU:CA	1:7:A:GLU:C	1:8:A:ASN:N	3	2.92
(1,104)	1:7:A:GLU:N	1:7:A:GLU:CA	1:7:A:GLU:C	1:8:A:ASN:N	6	2.91
(1,64)	1:88:A:GLY:C	1:89:A:ASN:N	1:89:A:ASN:CA	1:89:A:ASN:C	2	2.91
(1,195)	1:129:A:LYS:N	1:129:A:LYS:CA	1:129:A:LYS:C	1:130:A:GLY:N	3	2.88
(1,71)	1:95:A:ARG:C	1:96:A:GLU:N	1:96:A:GLU:CA	1:96:A:GLU:C	7	2.85
(1,32)	1:46:A:THR:C	1:47:A:LEU:N	1:47:A:LEU:CA	1:47:A:LEU:C	10	2.78
(1,201)	1:23:A:4FW:CD1	1:23:A:4FW:CG	1:23:A:4FW:CB	1:23:A:4FW:CA	2	2.76
(1,172)	1:99:A:ASN:N	1:99:A:ASN:CA	1:99:A:ASN:C	1:100:A:VAL:N	10	2.76
(1,120)	1:32:A:ASN:N	1:32:A:ASN:CA	1:32:A:ASN:C	1:33:A:VAL:N	7	2.76
(1,104)	1:7:A:GLU:N	1:7:A:GLU:CA	1:7:A:GLU:C	1:8:A:ASN:N	4	2.74
(1,104)	1:7:A:GLU:N	1:7:A:GLU:CA	1:7:A:GLU:C	1:8:A:ASN:N	8	2.72
(1,111)	1:21:A:GLY:N	1:21:A:GLY:CA	1:21:A:GLY:C	1:22:A:GLN:N	5	2.65
(1,152)	1:74:A:GLU:N	1:74:A:GLU:CA	1:74:A:GLU:C	1:75:A:ASN:N	8	2.64
(1,170)	1:96:A:GLU:N	1:96:A:GLU:CA	1:96:A:GLU:C	1:97:A:ASN:N	5	2.62
(1,12)	1:20:A:GLY:C	1:21:A:GLY:N	1:21:A:GLY:CA	1:21:A:GLY:C	7	2.61
(1,9)	1:13:A:SER:C	1:14:A:SER:N	1:14:A:SER:CA	1:14:A:SER:C	6	2.59
(1,142)	1:62:A:ARG:N	1:62:A:ARG:CA	1:62:A:ARG:C	1:63:A:ALA:N	1	2.58
(1,105)	1:8:A:ASN:N	1:8:A:ASN:CA	1:8:A:ASN:C	1:9:A:GLN:N	7	2.58
(1,58)	1:80:A:ASP:C	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	9	2.57
(1,9)	1:13:A:SER:C	1:14:A:SER:N	1:14:A:SER:CA	1:14:A:SER:C	1	2.57
(1,64)	1:88:A:GLY:C	1:89:A:ASN:N	1:89:A:ASN:CA	1:89:A:ASN:C	6	2.56
(1,179)	1:110:A:ASP:N	1:110:A:ASP:CA	1:110:A:ASP:C	1:111:A:GLY:N	4	2.55
(1,16)	1:24:A:GLU:C	1:25:A:ILE:N	1:25:A:ILE:CA	1:25:A:ILE:C	5	2.55
(1,104)	1:7:A:GLU:N	1:7:A:GLU:CA	1:7:A:GLU:C	1:8:A:ASN:N	1	2.53
(1,172)	1:99:A:ASN:N	1:99:A:ASN:CA	1:99:A:ASN:C	1:100:A:VAL:N	8	2.52
(1,104)	1:7:A:GLU:N	1:7:A:GLU:CA	1:7:A:GLU:C	1:8:A:ASN:N	2	2.52
(1,179)	1:110:A:ASP:N	1:110:A:ASP:CA	1:110:A:ASP:C	1:111:A:GLY:N	5	2.46
(1,172)	1:99:A:ASN:N	1:99:A:ASN:CA	1:99:A:ASN:C	1:100:A:VAL:N	9	2.45
(1,58)	1:80:A:ASP:C	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	2	2.44
(1,179)	1:110:A:ASP:N	1:110:A:ASP:CA	1:110:A:ASP:C	1:111:A:GLY:N	2	2.43
(1,111)	1:21:A:GLY:N	1:21:A:GLY:CA	1:21:A:GLY:C	1:22:A:GLN:N	7	2.43
(1,184)	1:115:A:ASN:N	1:115:A:ASN:CA	1:115:A:ASN:C	1:116:A:GLY:N	1	2.42
(1,170)	1:96:A:GLU:N	1:96:A:GLU:CA	1:96:A:GLU:C	1:97:A:ASN:N	7	2.42
(1,71)	1:95:A:ARG:C	1:96:A:GLU:N	1:96:A:GLU:CA	1:96:A:GLU:C	5	2.42
(1,142)	1:62:A:ARG:N	1:62:A:ARG:CA	1:62:A:ARG:C	1:63:A:ALA:N	3	2.39
(1,204)	1:90:A:4FW:CD1	1:90:A:4FW:CG	1:90:A:4FW:CB	1:90:A:4FW:CA	9	2.37
(1,170)	1:96:A:GLU:N	1:96:A:GLU:CA	1:96:A:GLU:C	1:97:A:ASN:N	2	2.35

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,33)	1:48:A:ASN:C	1:49:A:GLY:N	1:49:A:GLY:CA	1:49:A:GLY:C	4	2.34
(1,170)	1:96:A:GLU:N	1:96:A:GLU:CA	1:96:A:GLU:C	1:97:A:ASN:N	1	2.33
(1,64)	1:88:A:GLY:C	1:89:A:ASN:N	1:89:A:ASN:CA	1:89:A:ASN:C	1	2.33
(1,204)	1:90:A:4FW:CD1	1:90:A:4FW:CG	1:90:A:4FW:CB	1:90:A:4FW:CA	8	2.31
(1,14)	1:22:A:GLN:C	1:23:A:4FW:N	1:23:A:4FW:CA	1:23:A:4FW:C	9	2.31
(1,120)	1:32:A:ASN:N	1:32:A:ASN:CA	1:32:A:ASN:C	1:33:A:VAL:N	9	2.29
(1,32)	1:46:A:THR:C	1:47:A:LEU:N	1:47:A:LEU:CA	1:47:A:LEU:C	8	2.29
(1,71)	1:95:A:ARG:C	1:96:A:GLU:N	1:96:A:GLU:CA	1:96:A:GLU:C	10	2.28
(1,201)	1:23:A:4FW:CD1	1:23:A:4FW:CG	1:23:A:4FW:CB	1:23:A:4FW:CA	4	2.27
(1,172)	1:99:A:ASN:N	1:99:A:ASN:CA	1:99:A:ASN:C	1:100:A:VAL:N	2	2.26
(1,137)	1:55:A:GLY:N	1:55:A:GLY:CA	1:55:A:GLY:C	1:56:A:GLU:N	1	2.25
(1,147)	1:68:A:ASN:N	1:68:A:ASN:CA	1:68:A:ASN:C	1:69:A:ASN:N	5	2.24
(1,33)	1:48:A:ASN:C	1:49:A:GLY:N	1:49:A:GLY:CA	1:49:A:GLY:C	7	2.23
(1,111)	1:21:A:GLY:N	1:21:A:GLY:CA	1:21:A:GLY:C	1:22:A:GLN:N	4	2.22
(1,104)	1:7:A:GLU:N	1:7:A:GLU:CA	1:7:A:GLU:C	1:8:A:ASN:N	9	2.22
(1,12)	1:20:A:GLY:C	1:21:A:GLY:N	1:21:A:GLY:CA	1:21:A:GLY:C	6	2.21
(1,172)	1:99:A:ASN:N	1:99:A:ASN:CA	1:99:A:ASN:C	1:100:A:VAL:N	3	2.2
(1,70)	1:94:A:SER:C	1:95:A:ARG:N	1:95:A:ARG:CA	1:95:A:ARG:C	10	2.18
(1,157)	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1:82:A:ALA:N	3	2.17
(1,152)	1:74:A:GLU:N	1:74:A:GLU:CA	1:74:A:GLU:C	1:75:A:ASN:N	6	2.16
(1,184)	1:115:A:ASN:N	1:115:A:ASN:CA	1:115:A:ASN:C	1:116:A:GLY:N	3	2.15
(1,32)	1:46:A:THR:C	1:47:A:LEU:N	1:47:A:LEU:CA	1:47:A:LEU:C	7	2.15
(1,172)	1:99:A:ASN:N	1:99:A:ASN:CA	1:99:A:ASN:C	1:100:A:VAL:N	1	2.14
(1,152)	1:74:A:GLU:N	1:74:A:GLU:CA	1:74:A:GLU:C	1:75:A:ASN:N	5	2.12
(1,13)	1:21:A:GLY:C	1:22:A:GLN:N	1:22:A:GLN:CA	1:22:A:GLN:C	2	2.12
(1,111)	1:21:A:GLY:N	1:21:A:GLY:CA	1:21:A:GLY:C	1:22:A:GLN:N	9	2.11
(1,105)	1:8:A:ASN:N	1:8:A:ASN:CA	1:8:A:ASN:C	1:9:A:GLN:N	6	2.11
(1,103)	1:6:A:VAL:N	1:6:A:VAL:CA	1:6:A:VAL:C	1:7:A:GLU:N	5	2.11
(1,110)	1:20:A:GLY:N	1:20:A:GLY:CA	1:20:A:GLY:C	1:21:A:GLY:N	5	2.08
(1,94)	1:126:A:ILE:C	1:127:A:GLY:N	1:127:A:GLY:CA	1:127:A:GLY:C	2	2.08
(1,172)	1:99:A:ASN:N	1:99:A:ASN:CA	1:99:A:ASN:C	1:100:A:VAL:N	7	2.07
(1,170)	1:96:A:GLU:N	1:96:A:GLU:CA	1:96:A:GLU:C	1:97:A:ASN:N	8	2.06
(1,14)	1:22:A:GLN:C	1:23:A:4FW:N	1:23:A:4FW:CA	1:23:A:4FW:C	7	2.04
(1,120)	1:32:A:ASN:N	1:32:A:ASN:CA	1:32:A:ASN:C	1:33:A:VAL:N	2	2.03
(1,7)	1:8:A:ASN:C	1:9:A:GLN:N	1:9:A:GLN:CA	1:9:A:GLN:C	10	1.97
(1,184)	1:115:A:ASN:N	1:115:A:ASN:CA	1:115:A:ASN:C	1:116:A:GLY:N	8	1.96
(1,170)	1:96:A:GLU:N	1:96:A:GLU:CA	1:96:A:GLU:C	1:97:A:ASN:N	9	1.96
(1,152)	1:74:A:GLU:N	1:74:A:GLU:CA	1:74:A:GLU:C	1:75:A:ASN:N	9	1.95
(1,58)	1:80:A:ASP:C	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	5	1.94
(1,20)	1:29:A:SER:C	1:30:A:ASP:N	1:30:A:ASP:CA	1:30:A:ASP:C	1	1.94
(1,70)	1:94:A:SER:C	1:95:A:ARG:N	1:95:A:ARG:CA	1:95:A:ARG:C	6	1.93
(1,25)	1:37:A:ASN:C	1:38:A:VAL:N	1:38:A:VAL:CA	1:38:A:VAL:C	8	1.91
(1,32)	1:46:A:THR:C	1:47:A:LEU:N	1:47:A:LEU:CA	1:47:A:LEU:C	2	1.9
(1,120)	1:32:A:ASN:N	1:32:A:ASN:CA	1:32:A:ASN:C	1:33:A:VAL:N	8	1.89
(1,9)	1:13:A:SER:C	1:14:A:SER:N	1:14:A:SER:CA	1:14:A:SER:C	9	1.89
(1,32)	1:46:A:THR:C	1:47:A:LEU:N	1:47:A:LEU:CA	1:47:A:LEU:C	1	1.87
(1,172)	1:99:A:ASN:N	1:99:A:ASN:CA	1:99:A:ASN:C	1:100:A:VAL:N	6	1.82
(1,178)	1:107:A:SER:N	1:107:A:SER:CA	1:107:A:SER:C	1:108:A:GLY:N	6	1.81
(1,32)	1:46:A:THR:C	1:47:A:LEU:N	1:47:A:LEU:CA	1:47:A:LEU:C	5	1.81
(1,152)	1:74:A:GLU:N	1:74:A:GLU:CA	1:74:A:GLU:C	1:75:A:ASN:N	2	1.8
(1,33)	1:48:A:ASN:C	1:49:A:GLY:N	1:49:A:GLY:CA	1:49:A:GLY:C	6	1.79

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,9)	1:13:A:SER:C	1:14:A:SER:N	1:14:A:SER:CA	1:14:A:SER:C	10	1.77
(1,179)	1:110:A:ASP:N	1:110:A:ASP:CA	1:110:A:ASP:C	1:111:A:GLY:N	10	1.76
(1,180)	1:111:A:GLY:N	1:111:A:GLY:CA	1:111:A:GLY:C	1:112:A:GLN:N	7	1.73
(1,32)	1:46:A:THR:C	1:47:A:LEU:N	1:47:A:LEU:CA	1:47:A:LEU:C	3	1.71
(1,152)	1:74:A:GLU:N	1:74:A:GLU:CA	1:74:A:GLU:C	1:75:A:ASN:N	4	1.7
(1,33)	1:48:A:ASN:C	1:49:A:GLY:N	1:49:A:GLY:CA	1:49:A:GLY:C	10	1.69
(1,195)	1:129:A:LYS:N	1:129:A:LYS:CA	1:129:A:LYS:C	1:130:A:GLY:N	8	1.68
(1,179)	1:110:A:ASP:N	1:110:A:ASP:CA	1:110:A:ASP:C	1:111:A:GLY:N	9	1.67
(1,179)	1:110:A:ASP:N	1:110:A:ASP:CA	1:110:A:ASP:C	1:111:A:GLY:N	1	1.65
(1,197)	1:131:A:THR:N	1:131:A:THR:CA	1:131:A:THR:C	1:132:A:LEU:N	7	1.64
(1,152)	1:74:A:GLU:N	1:74:A:GLU:CA	1:74:A:GLU:C	1:75:A:ASN:N	10	1.64
(1,58)	1:80:A:ASP:C	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	8	1.64
(1,70)	1:94:A:SER:C	1:95:A:ARG:N	1:95:A:ARG:CA	1:95:A:ARG:C	2	1.63
(1,180)	1:111:A:GLY:N	1:111:A:GLY:CA	1:111:A:GLY:C	1:112:A:GLN:N	9	1.61
(1,141)	1:61:A:PHE:N	1:61:A:PHE:CA	1:61:A:PHE:C	1:62:A:ARG:N	2	1.6
(1,180)	1:111:A:GLY:N	1:111:A:GLY:CA	1:111:A:GLY:C	1:112:A:GLN:N	6	1.58
(1,94)	1:126:A:ILE:C	1:127:A:GLY:N	1:127:A:GLY:CA	1:127:A:GLY:C	3	1.58
(1,58)	1:80:A:ASP:C	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	7	1.58
(1,168)	1:94:A:SER:N	1:94:A:SER:CA	1:94:A:SER:C	1:95:A:ARG:N	1	1.57
(1,16)	1:24:A:GLU:C	1:25:A:ILE:N	1:25:A:ILE:CA	1:25:A:ILE:C	7	1.57
(1,127)	1:43:A:ASP:N	1:43:A:ASP:CA	1:43:A:ASP:C	1:44:A:GLY:N	6	1.56
(1,153)	1:75:A:ASN:N	1:75:A:ASN:CA	1:75:A:ASN:C	1:76:A:GLN:N	1	1.55
(1,15)	1:23:A:4FW:C	1:24:A:GLU:N	1:24:A:GLU:CA	1:24:A:GLU:C	1	1.55
(1,94)	1:126:A:ILE:C	1:127:A:GLY:N	1:127:A:GLY:CA	1:127:A:GLY:C	7	1.52
(1,141)	1:61:A:PHE:N	1:61:A:PHE:CA	1:61:A:PHE:C	1:62:A:ARG:N	4	1.51
(1,71)	1:95:A:ARG:C	1:96:A:GLU:N	1:96:A:GLU:CA	1:96:A:GLU:C	9	1.51
(1,9)	1:13:A:SER:C	1:14:A:SER:N	1:14:A:SER:CA	1:14:A:SER:C	3	1.51
(1,179)	1:110:A:ASP:N	1:110:A:ASP:CA	1:110:A:ASP:C	1:111:A:GLY:N	7	1.49
(1,7)	1:8:A:ASN:C	1:9:A:GLN:N	1:9:A:GLN:CA	1:9:A:GLN:C	1	1.48
(1,180)	1:111:A:GLY:N	1:111:A:GLY:CA	1:111:A:GLY:C	1:112:A:GLN:N	2	1.44
(1,180)	1:111:A:GLY:N	1:111:A:GLY:CA	1:111:A:GLY:C	1:112:A:GLN:N	3	1.43
(1,201)	1:23:A:4FW:CD1	1:23:A:4FW:CG	1:23:A:4FW:CB	1:23:A:4FW:CA	5	1.4
(1,178)	1:107:A:SER:N	1:107:A:SER:CA	1:107:A:SER:C	1:108:A:GLY:N	9	1.4
(1,146)	1:66:A:LEU:N	1:66:A:LEU:CA	1:66:A:LEU:C	1:67:A:GLY:N	8	1.38
(1,51)	1:71:A:TYR:C	1:72:A:GLU:N	1:72:A:GLU:CA	1:72:A:GLU:C	6	1.37
(1,135)	1:52:A:THR:N	1:52:A:THR:CA	1:52:A:THR:C	1:53:A:TYR:N	3	1.35
(1,71)	1:95:A:ARG:C	1:96:A:GLU:N	1:96:A:GLU:CA	1:96:A:GLU:C	4	1.35
(1,32)	1:46:A:THR:C	1:47:A:LEU:N	1:47:A:LEU:CA	1:47:A:LEU:C	9	1.35
(1,105)	1:8:A:ASN:N	1:8:A:ASN:CA	1:8:A:ASN:C	1:9:A:GLN:N	5	1.34
(1,58)	1:80:A:ASP:C	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	6	1.34
(1,14)	1:22:A:GLN:C	1:23:A:4FW:N	1:23:A:4FW:CA	1:23:A:4FW:C	5	1.34
(1,180)	1:111:A:GLY:N	1:111:A:GLY:CA	1:111:A:GLY:C	1:112:A:GLN:N	5	1.33
(1,32)	1:46:A:THR:C	1:47:A:LEU:N	1:47:A:LEU:CA	1:47:A:LEU:C	4	1.33
(1,179)	1:110:A:ASP:N	1:110:A:ASP:CA	1:110:A:ASP:C	1:111:A:GLY:N	3	1.31
(1,69)	1:93:A:GLY:C	1:94:A:SER:N	1:94:A:SER:CA	1:94:A:SER:C	9	1.31
(1,12)	1:20:A:GLY:C	1:21:A:GLY:N	1:21:A:GLY:CA	1:21:A:GLY:C	9	1.3
(1,33)	1:48:A:ASN:C	1:49:A:GLY:N	1:49:A:GLY:CA	1:49:A:GLY:C	5	1.28
(1,179)	1:110:A:ASP:N	1:110:A:ASP:CA	1:110:A:ASP:C	1:111:A:GLY:N	6	1.27
(1,178)	1:107:A:SER:N	1:107:A:SER:CA	1:107:A:SER:C	1:108:A:GLY:N	4	1.27
(1,71)	1:95:A:ARG:C	1:96:A:GLU:N	1:96:A:GLU:CA	1:96:A:GLU:C	6	1.27
(1,12)	1:20:A:GLY:C	1:21:A:GLY:N	1:21:A:GLY:CA	1:21:A:GLY:C	3	1.27

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,195)	1:129:A:LYS:N	1:129:A:LYS:CA	1:129:A:LYS:C	1:130:A:GLY:N	1	1.26
(1,94)	1:126:A:ILE:C	1:127:A:GLY:N	1:127:A:GLY:CA	1:127:A:GLY:C	5	1.25
(1,180)	1:111:A:GLY:N	1:111:A:GLY:CA	1:111:A:GLY:C	1:112:A:GLN:N	4	1.23
(1,168)	1:94:A:SER:N	1:94:A:SER:CA	1:94:A:SER:C	1:95:A:ARG:N	5	1.23
(1,152)	1:74:A:GLU:N	1:74:A:GLU:CA	1:74:A:GLU:C	1:75:A:ASN:N	7	1.23
(1,71)	1:95:A:ARG:C	1:96:A:GLU:N	1:96:A:GLU:CA	1:96:A:GLU:C	3	1.21
(1,94)	1:126:A:ILE:C	1:127:A:GLY:N	1:127:A:GLY:CA	1:127:A:GLY:C	9	1.19
(1,52)	1:72:A:GLU:C	1:73:A:VAL:N	1:73:A:VAL:CA	1:73:A:VAL:C	4	1.19
(1,141)	1:61:A:PHE:N	1:61:A:PHE:CA	1:61:A:PHE:C	1:62:A:ARG:N	7	1.16
(1,69)	1:93:A:GLY:C	1:94:A:SER:N	1:94:A:SER:CA	1:94:A:SER:C	6	1.14
(1,172)	1:99:A:ASN:N	1:99:A:ASN:CA	1:99:A:ASN:C	1:100:A:VAL:N	5	1.13
(1,163)	1:89:A:ASN:N	1:89:A:ASN:CA	1:89:A:ASN:C	1:90:A:4FW:N	7	1.12
(1,51)	1:71:A:TYR:C	1:72:A:GLU:N	1:72:A:GLU:CA	1:72:A:GLU:C	3	1.11
(1,58)	1:80:A:ASP:C	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	4	1.09
(1,201)	1:23:A:4FW:CD1	1:23:A:4FW:CG	1:23:A:4FW:CB	1:23:A:4FW:CA	7	1.08
(1,163)	1:89:A:ASN:N	1:89:A:ASN:CA	1:89:A:ASN:C	1:90:A:4FW:N	1	1.08
(1,110)	1:20:A:GLY:N	1:20:A:GLY:CA	1:20:A:GLY:C	1:21:A:GLY:N	2	1.08
(1,120)	1:32:A:ASN:N	1:32:A:ASN:CA	1:32:A:ASN:C	1:33:A:VAL:N	5	1.07
(1,35)	1:50:A:THR:C	1:51:A:MET:N	1:51:A:MET:CA	1:51:A:MET:C	8	1.07
(1,163)	1:89:A:ASN:N	1:89:A:ASN:CA	1:89:A:ASN:C	1:90:A:4FW:N	4	1.05
(1,58)	1:80:A:ASP:C	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	3	1.04
(1,178)	1:107:A:SER:N	1:107:A:SER:CA	1:107:A:SER:C	1:108:A:GLY:N	2	1.02
(1,94)	1:126:A:ILE:C	1:127:A:GLY:N	1:127:A:GLY:CA	1:127:A:GLY:C	8	1.02