



Full wwPDB NMR Structure Validation Report ⓘ

Mar 26, 2026 – 01:03 PM UTC

PDB ID : 2M86 / pdb_00002m86
BMRB ID : 19230
Title : Solution structure of Hdm2 with engineered cyclotide
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Deposited on : 2013-05-07

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

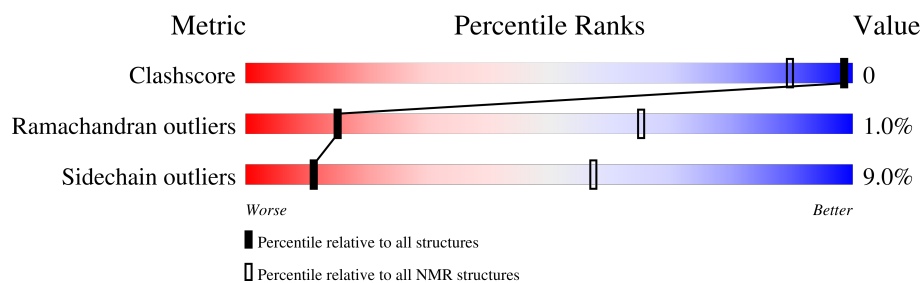
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 46%.

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	51	90%10%
2	B	129	63%36%

2 Ensemble composition and analysis

This entry contains 10 models. Model 6 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:1-A:51, B:92-B:174 (134)	0.81	6

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 and 3 single-model clusters were found.

Cluster number	Models
1	1, 3, 8, 10
2	2, 4, 6
Single-model clusters	5; 7; 9

3 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 2126 atoms, of which 1072 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called MCo-PMI.

Mol	Chain	Residues	Atoms						Trace
1	A	51	Total	C	H	N	O	S	0
			709	221	344	69	69	6	

- Molecule 2 is a protein called E3 ubiquitin-protein ligase Mdm2.

Mol	Chain	Residues	Atoms						Trace
2	B	83	Total	C	H	N	O	S	0
			1417	453	728	114	118	4	

There are 20 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	62	GLY	-	expression tag	UNP Q00987
B	63	SER	-	expression tag	UNP Q00987
B	64	SER	-	expression tag	UNP Q00987
B	65	HIS	-	expression tag	UNP Q00987
B	66	HIS	-	expression tag	UNP Q00987
B	67	HIS	-	expression tag	UNP Q00987
B	68	HIS	-	expression tag	UNP Q00987
B	69	HIS	-	expression tag	UNP Q00987
B	70	HIS	-	expression tag	UNP Q00987
B	71	SER	-	expression tag	UNP Q00987
B	72	SER	-	expression tag	UNP Q00987
B	73	GLY	-	expression tag	UNP Q00987
B	74	LEU	-	expression tag	UNP Q00987
B	75	VAL	-	expression tag	UNP Q00987
B	76	PRO	-	expression tag	UNP Q00987
B	77	ARG	-	expression tag	UNP Q00987
B	78	GLY	-	expression tag	UNP Q00987
B	79	SER	-	expression tag	UNP Q00987
B	80	HIS	-	expression tag	UNP Q00987
B	81	MET	-	expression tag	UNP Q00987

4 Residue-property plots [i](#)

4.1 Average score per residue in the NMR ensemble

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

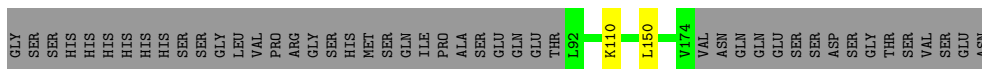
- Molecule 1: MCo-PMI

Chain A:  90% 10%



- Molecule 2: E3 ubiquitin-protein ligase Mdm2

Chain B:  63% 36%



4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

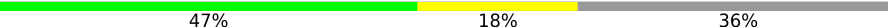
4.2.1 Score per residue for model 1

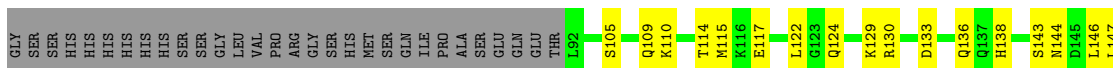
- Molecule 1: MCo-PMI

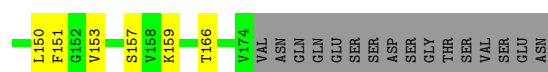
Chain A:  86% 14%



- Molecule 2: E3 ubiquitin-protein ligase Mdm2

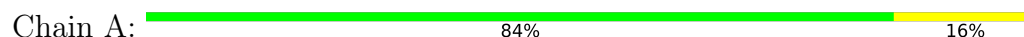
Chain B:  47% 18% 36%



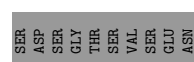
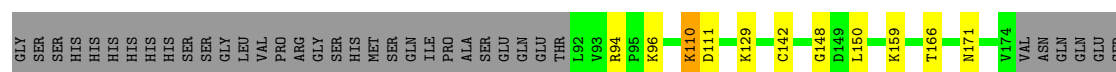


4.2.2 Score per residue for model 2

- Molecule 1: MCo-PMI

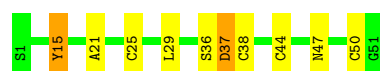
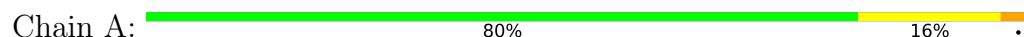


- Molecule 2: E3 ubiquitin-protein ligase Mdm2

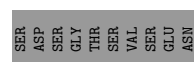
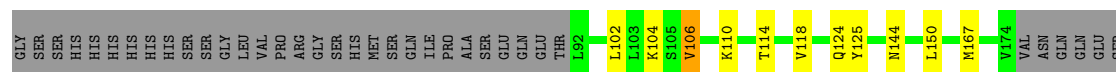


4.2.3 Score per residue for model 3

- Molecule 1: MCo-PMI

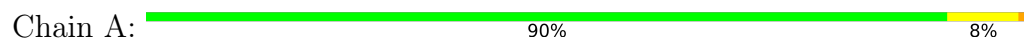


- Molecule 2: E3 ubiquitin-protein ligase Mdm2



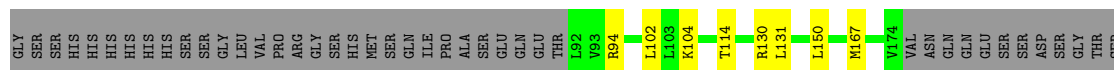
4.2.4 Score per residue for model 4

- Molecule 1: MCo-PMI



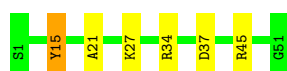


- Molecule 2: E3 ubiquitin-protein ligase Mdm2



4.2.5 Score per residue for model 5

- Molecule 1: MCo-PMI

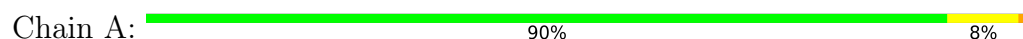


- Molecule 2: E3 ubiquitin-protein ligase Mdm2

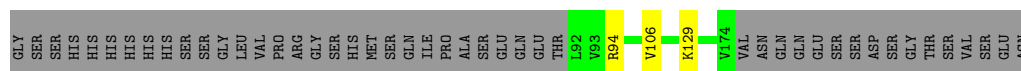


4.2.6 Score per residue for model 6 (medoid)

- Molecule 1: MCo-PMI



- Molecule 2: E3 ubiquitin-protein ligase Mdm2



4.2.7 Score per residue for model 7

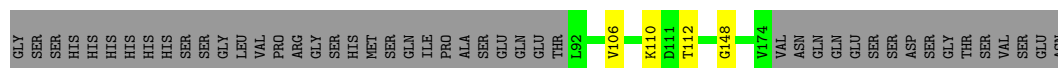
- Molecule 1: MCo-PMI

Chain A:  90% 10%



- Molecule 2: E3 ubiquitin-protein ligase Mdm2

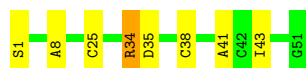
Chain B:  61% • 36%



4.2.8 Score per residue for model 8

- Molecule 1: MCo-PMI

Chain A:  84% 14% •



- Molecule 2: E3 ubiquitin-protein ligase Mdm2

Chain B:  58% 6% 36%



4.2.9 Score per residue for model 9

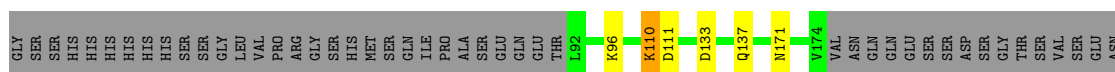
- Molecule 1: MCo-PMI

Chain A:  92% 8%



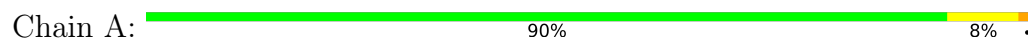
- Molecule 2: E3 ubiquitin-protein ligase Mdm2

Chain B:  60% • • 36%

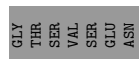
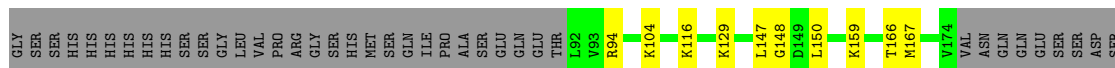


4.2.10 Score per residue for model 10

- Molecule 1: MCo-PMI



- Molecule 2: E3 ubiquitin-protein ligase Mdm2



5 Refinement protocol and experimental data overview

The models were refined using the following method: *DGSA-distance geometry 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
CHRM	refinement	36
CYANA	structure solution	2.1

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	849
Number of shifts mapped to atoms	849
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	46%

6 Model quality (i)

6.1 Standard geometry (i)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#Z>5	RMSZ	#Z>5
1	A	0.91±0.01	0±0/372 (0.0± 0.0%)	1.48±0.04	2±1/500 (0.3± 0.3%)
2	B	0.87±0.01	0±0/703 (0.0± 0.0%)	1.45±0.03	2±2/946 (0.2± 0.2%)
All	All	0.88	0/10750 (0.0%)	1.46	36/14460 (0.2%)

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

Mol	Chain	Chirality	Planarity
1	A	0.0±0.0	0.7±0.9
2	B	0.0±0.0	0.3±0.5
All	All	0	10

There are no bond-length outliers.

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

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	1	SER	O-C-N	-7.79	110.54	123.00	2	6
2	B	134	GLU	CB-CA-C	-6.57	100.56	110.88	5	1
2	B	94	ARG	CB-CA-C	-6.53	102.64	110.15	6	1
1	A	35	ASP	CA-CB-CG	6.19	118.79	112.60	8	2
2	B	171	ASN	CA-CB-CG	-5.93	106.67	112.60	9	1
1	A	37	ASP	CA-CB-CG	5.92	118.52	112.60	6	2
2	B	148	GLY	CA-C-N	5.66	128.18	120.54	10	5
2	B	148	GLY	C-N-CA	5.66	128.18	120.54	10	5
2	B	110	LYS	CA-C-N	5.65	128.16	120.54	5	2
2	B	110	LYS	C-N-CA	5.65	128.16	120.54	5	2
1	A	36	SER	CA-C-N	5.45	128.13	120.28	3	1
1	A	36	SER	C-N-CA	5.45	128.13	120.28	3	1
1	A	34	ARG	CA-C-N	5.33	127.74	120.54	8	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	34	ARG	C-N-CA	5.33	127.74	120.54	8	1
1	A	50	CYS	N-CA-C	5.22	117.26	108.96	3	1
2	B	133	ASP	CA-CB-CG	5.17	117.77	112.60	9	1
2	B	112	THR	N-CA-C	5.12	116.61	108.67	7	1
2	B	122	LEU	CA-C-N	5.01	125.50	119.94	1	1
2	B	122	LEU	C-N-CA	5.01	125.50	119.94	1	1

There are no chirality outliers.

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

Mol	Chain	Res	Type	Group	Models (Total)
1	A	15	TYR	Sidechain	3
1	A	34	ARG	Sidechain	3
2	B	130	ARG	Sidechain	2
1	A	45	ARG	Sidechain	1
2	B	121	TYR	Sidechain	1

6.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
2	B	689	728	727	0±1
All	All	10540	10720	10709	5

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 0.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:110:LYS:HE3	2:B:111:ASP:H	0.59	1.57	9	1
2:B:106:VAL:HG22	2:B:125:TYR:CD1	0.45	2.48	3	1
2:B:114:THR:O	2:B:118:VAL:HG23	0.44	2.13	3	1
2:B:151:PHE:HB3	2:B:153:VAL:HG22	0.43	1.90	1	2

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	49/51 (96%)	41±2 (84±4%)	6±2 (13±4%)	1±1 (2±2%)	7	44
2	B	81/129 (63%)	76±3 (94±3%)	5±3 (6±3%)	0±0 (0±0%)	49	83
All	All	1300/1800 (72%)	1175 (90%)	112 (9%)	13 (1%)	15	65

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	21	ALA	6
1	A	8	ALA	2
2	B	130	ARG	1
1	A	2	GLY	1
1	A	27	LYS	1
1	A	41	ALA	1
1	A	33	ARG	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	38/38 (100%)	34±2 (90±5%)	4±2 (10±5%)	9	54
2	B	78/119 (66%)	71±5 (92±6%)	7±5 (8±6%)	12	59
All	All	1160/1570 (74%)	1056 (91%)	104 (9%)	11	57

All 47 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	15	TYR	8
1	A	25	CYS	6
2	B	150	LEU	6
1	A	38	CYS	5
2	B	110	LYS	5
2	B	129	LYS	4
1	A	37	ASP	4
2	B	115	MET	3
2	B	159	LYS	3
2	B	166	THR	3
1	A	43	ILE	3
2	B	94	ARG	3
2	B	104	LYS	3
2	B	106	VAL	3
2	B	167	MET	3
1	A	47	ASN	2
2	B	114	THR	2
2	B	124	GLN	2
2	B	144	ASN	2
2	B	147	LEU	2
1	A	16	TRP	2
1	A	44	CYS	2
2	B	96	LYS	2
2	B	102	LEU	2
2	B	135	LYS	2
2	B	105	SER	1
2	B	109	GLN	1
2	B	117	GLU	1
2	B	133	ASP	1
2	B	136	GLN	1
2	B	138	HIS	1
2	B	143	SER	1
2	B	146	LEU	1
2	B	157	SER	1
1	A	36	SER	1
2	B	111	ASP	1
2	B	142	CYS	1
2	B	171	ASN	1
1	A	29	LEU	1
2	B	131	LEU	1
1	A	27	LYS	1
2	B	170	ARG	1
2	B	137	GLN	1

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Mol	Chain	Res	Type	Models (Total)
1	A	11	SER	1
1	A	34	ARG	1
1	A	35	ASP	1
2	B	116	LYS	1

6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.6 Ligand geometry [i](#)

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 46% for the well-defined parts and 46% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list_1*

7.1.1 Bookkeeping

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	849
Number of shifts mapped to atoms	849
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
$^{13}\text{C}_\alpha$	77	1.85 ± 0.34	Should be applied
$^{13}\text{C}_\beta$	70	2.30 ± 0.22	Should be applied
$^{13}\text{C}'$	0	—	None (insufficient data)
^{15}N	121	1.11 ± 0.40	Should be applied

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 46%, i.e. 848 atoms were assigned a chemical shift out of a possible 1847. 0 out of 25 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	447/670 (67%)	249/274 (91%)	77/268 (29%)	121/128 (95%)
Sidechain	397/1030 (39%)	327/672 (49%)	70/314 (22%)	0/44 (0%)

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	Total	¹ H	¹³ C	¹⁵ N
Aromatic	4/147 (3%)	4/70 (6%)	0/74 (0%)	0/3 (0%)
Overall	848/1847 (46%)	580/1016 (57%)	147/656 (22%)	121/175 (69%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 46%, i.e. 848 atoms were assigned a chemical shift out of a possible 1847. 0 out of 25 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	447/670 (67%)	249/274 (91%)	77/268 (29%)	121/128 (95%)
Sidechain	397/1030 (39%)	327/672 (49%)	70/314 (22%)	0/44 (0%)
Aromatic	4/147 (3%)	4/70 (6%)	0/74 (0%)	0/3 (0%)
Overall	848/1847 (46%)	580/1016 (57%)	147/656 (22%)	121/175 (69%)

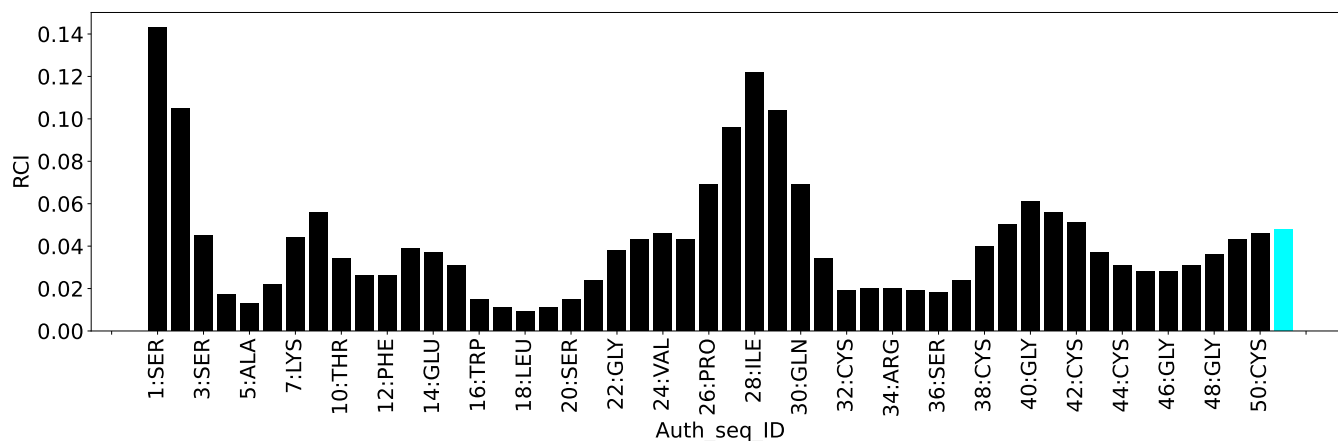
7.1.4 Statistically unusual chemical shifts [i](#)

There are no statistically unusual chemical shifts.

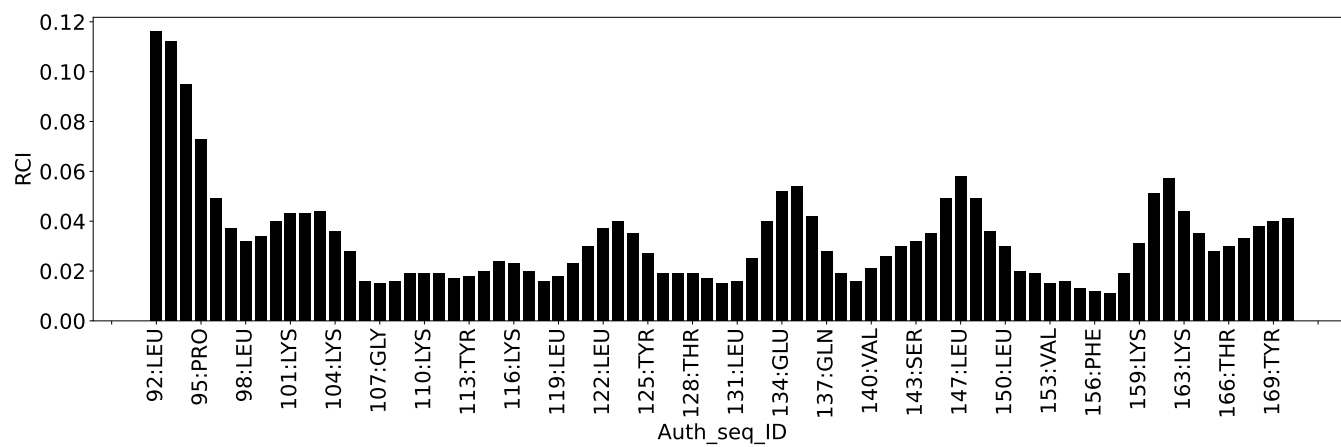
7.1.5 Random Coil Index (RCI) plots [i](#)

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:



Random coil index (RCI) for chain B:



8 NMR restraints analysis

8.1 Conformationally restricting restraints

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

Description	Value
Total distance restraints	1000
Intra-residue ($ i-j =0$)	329
Sequential ($ i-j =1$)	328
Medium range ($ i-j >1$ and $ i-j <5$)	130
Long range ($ i-j \geq 5$)	175
Inter-chain	33
Hydrogen bond restraints	2
Disulfide bond restraints	3
Total dihedral-angle restraints	252
Number of unmapped restraints	0
Number of restraints per residue	7.0
Number of long range restraints per residue ¹	1.0

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)	10.2	0.2
0.2-0.5 (Medium)	13.7	0.5
>0.5 (Large)	17.2	3.24

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)	93.9	9.98
10.0-20.0 (Medium)	39.6	19.98
>20.0 (Large)	27.3	79.94

9 Distance violation analysis ⓘ

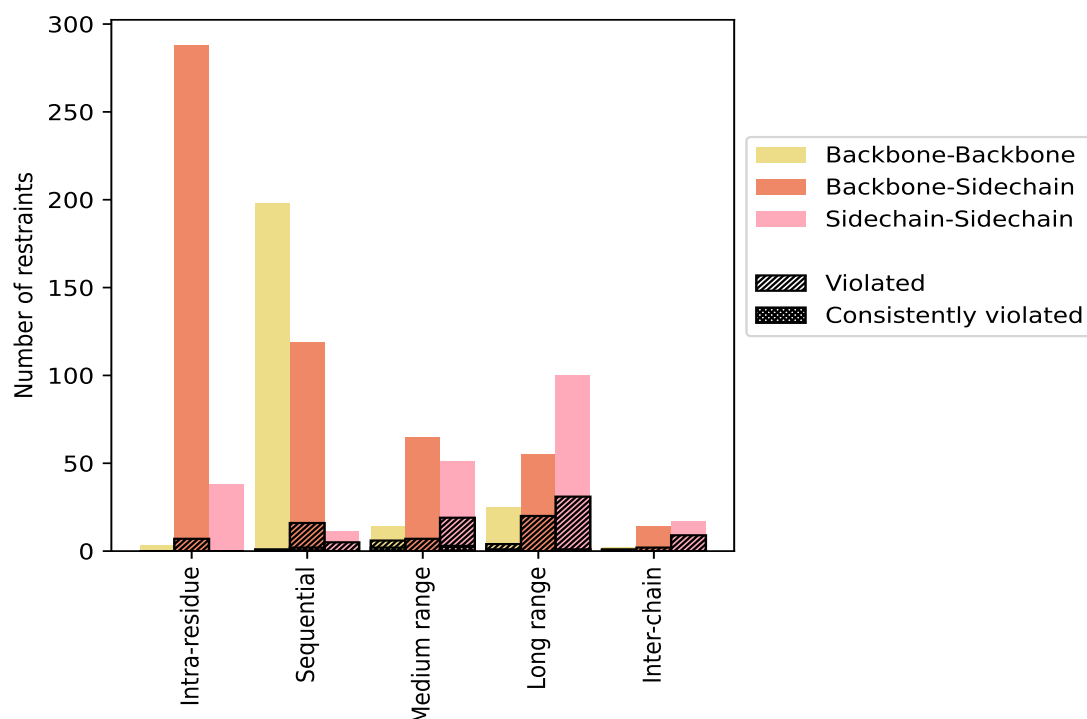
9.1 Summary of distance violations ⓘ

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

Restraints type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue (i-j =0)	329	32.9	7	2.1	0.7	0	0.0	0.0
Backbone-Backbone	3	0.3	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	288	28.8	7	2.4	0.7	0	0.0	0.0
Sidechain-Sidechain	38	3.8	0	0.0	0.0	0	0.0	0.0
Sequential (i-j =1)	328	32.8	22	6.7	2.2	2	0.6	0.2
Backbone-Backbone	198	19.8	1	0.5	0.1	0	0.0	0.0
Backbone-Sidechain	119	11.9	16	13.4	1.6	2	1.7	0.2
Sidechain-Sidechain	11	1.1	5	45.5	0.5	0	0.0	0.0
Medium range (i-j >1 & i-j <5)	130	13.0	32	24.6	3.2	5	3.8	0.5
Backbone-Backbone	14	1.4	6	42.9	0.6	2	14.3	0.2
Backbone-Sidechain	65	6.5	7	10.8	0.7	0	0.0	0.0
Sidechain-Sidechain	51	5.1	19	37.3	1.9	3	5.9	0.3
Long range (i-j ≥5)	175	17.5	55	31.4	5.5	2	1.1	0.2
Backbone-Backbone	25	2.5	4	16.0	0.4	1	4.0	0.1
Backbone-Sidechain	53	5.3	20	37.7	2.0	0	0.0	0.0
Sidechain-Sidechain	97	9.7	31	32.0	3.1	1	1.0	0.1
Inter-chain	33	3.3	12	36.4	1.2	0	0.0	0.0
Backbone-Backbone	2	0.2	1	50.0	0.1	0	0.0	0.0
Backbone-Sidechain	14	1.4	2	14.3	0.2	0	0.0	0.0
Sidechain-Sidechain	17	1.7	9	52.9	0.9	0	0.0	0.0
Hydrogen bond	2	0.2	0	0.0	0.0	0	0.0	0.0
Disulfide bond	3	0.3	0	0.0	0.0	0	0.0	0.0
Total	1000	100.0	128	12.8	12.8	9	0.9	0.9
Backbone-Backbone	242	24.2	12	5.0	1.2	3	1.2	0.3
Backbone-Sidechain	541	54.1	52	9.6	5.2	2	0.4	0.2
Sidechain-Sidechain	217	21.7	64	29.5	6.4	4	1.8	0.4

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

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



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

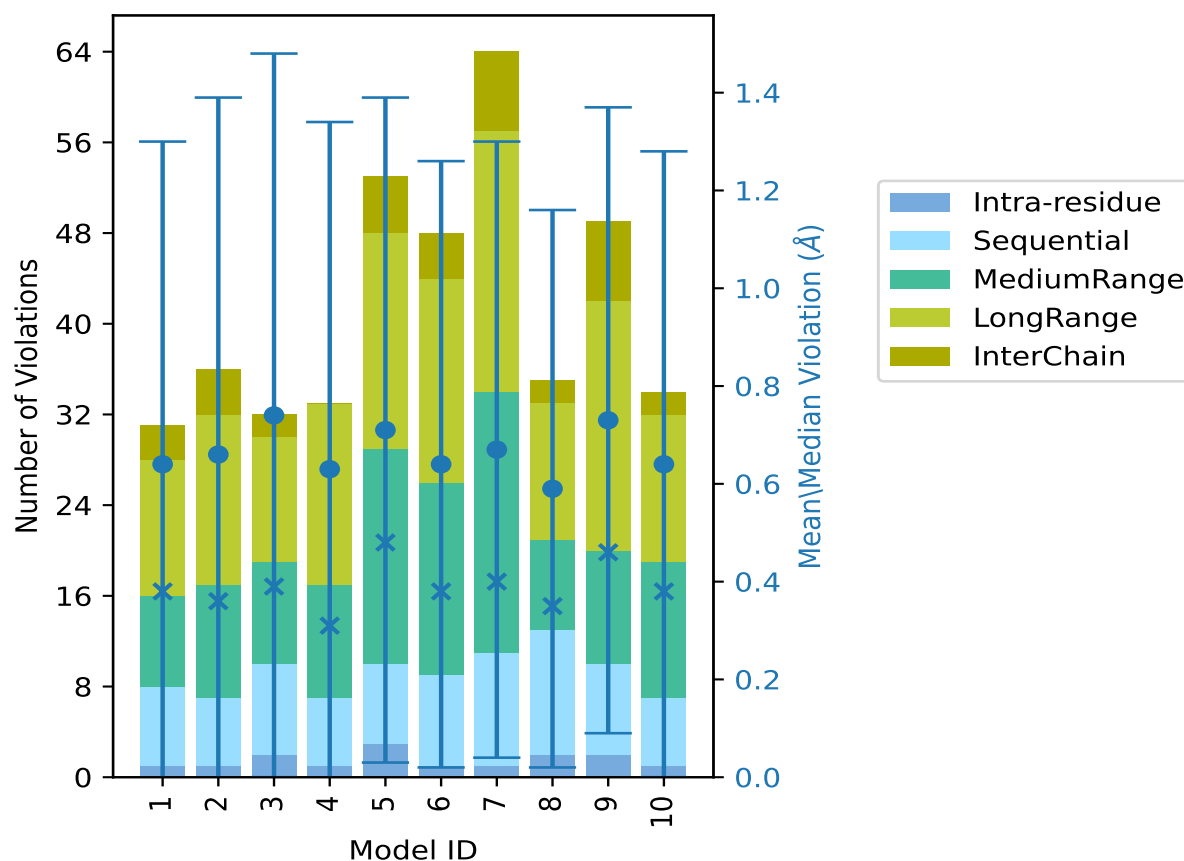
9.2 Distance violation statistics for each model [i](#)

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	1	7	8	12	3	31	0.64	2.16	0.66	0.38
2	1	6	10	15	4	36	0.66	3.24	0.73	0.36
3	2	8	9	11	2	32	0.74	2.85	0.74	0.39
4	1	6	10	16	0	33	0.63	3.08	0.71	0.31
5	3	7	19	19	5	53	0.71	2.98	0.68	0.48
6	1	8	17	18	4	48	0.64	2.98	0.62	0.38
7	1	10	23	23	7	64	0.67	3.12	0.63	0.4
8	2	11	8	12	2	35	0.59	2.05	0.57	0.35
9	2	8	10	22	7	49	0.73	2.63	0.64	0.46
10	1	6	12	13	2	34	0.64	2.38	0.64	0.38

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, 867(IR:322, SQ:306, MR:98, LR:120, IC:21) 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	%
5	10	10	19	4	48	1	10.0
0	2	6	13	3	24	2	20.0
0	3	4	8	0	15	3	30.0

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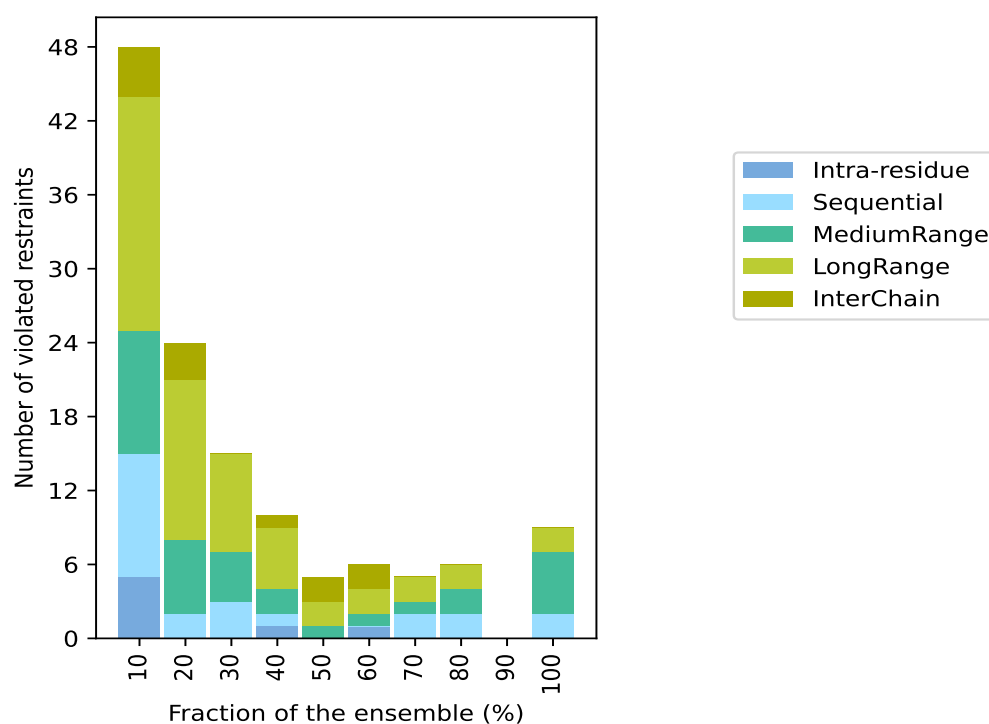
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Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
1	1	2	5	1	10	4	40.0
0	0	1	2	2	5	5	50.0
1	0	1	2	2	6	6	60.0
0	2	1	2	0	5	7	70.0
0	2	2	2	0	6	8	80.0
0	0	0	0	0	0	9	90.0
0	2	5	2	0	9	10	100.0

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

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

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

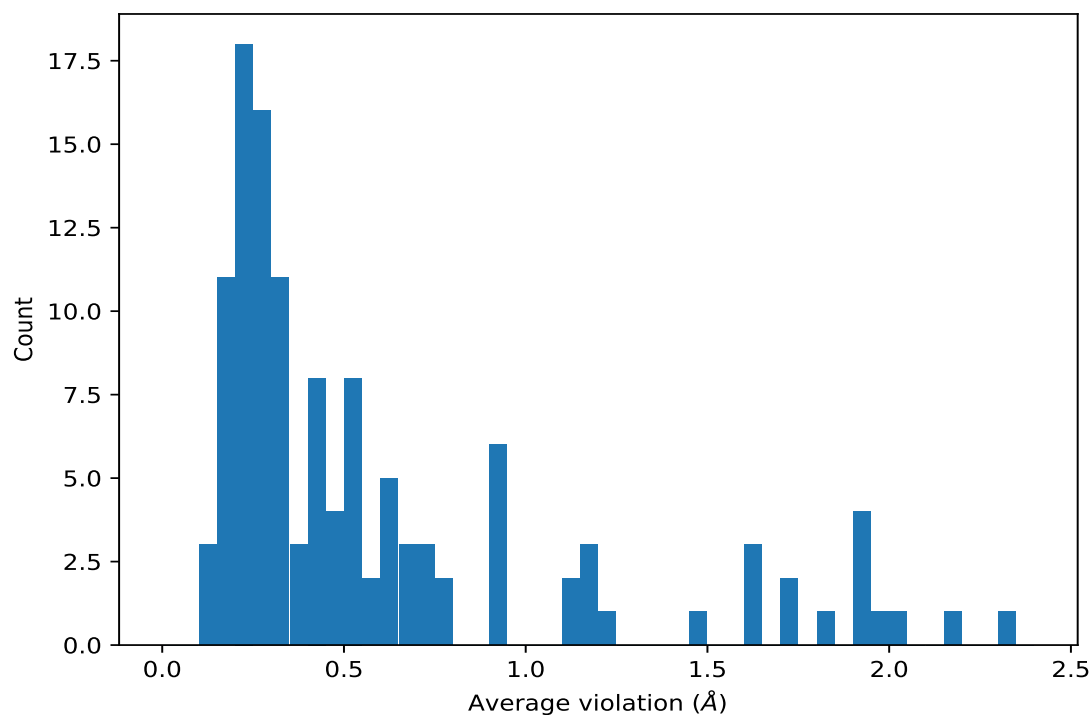


9.4 Most violated distance restraints in the ensemble [i](#)

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

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

in the ensemble



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

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

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,771)	2:165:B:TYR:HB3	2:169:B:TYR:HD1	10	2.04	0.35	2.04
(1,594)	2:112:B:THR:HA	2:113:B:TYR:HD1	10	1.98	0.21	2.06
(1,784)	2:169:B:TYR:HD2	2:172:B:LEU:HD11	10	1.91	0.43	2.02
(1,784)	2:169:B:TYR:HD2	2:172:B:LEU:HD12	10	1.91	0.43	2.02
(1,784)	2:169:B:TYR:HD2	2:172:B:LEU:HD13	10	1.91	0.43	2.02
(1,967)	1:5:A:ALA:H	1:16:A:TRP:H	10	1.74	0.12	1.74
(1,958)	1:16:A:TRP:H	1:18:A:LEU:H	10	0.77	0.1	0.75
(1,890)	2:107:B:GLY:H	2:109:B:GLN:H	10	0.73	0.14	0.68
(1,601)	2:113:B:TYR:HD2	2:117:B:GLU:HB3	10	0.63	0.18	0.62
(1,879)	2:127:B:MET:H	2:128:B:THR:HG1	10	0.38	0.05	0.39
(1,332)	1:9:A:PRO:HG2	1:14:A:GLU:HB3	10	0.37	0.13	0.38
(1,731)	2:151:B:PHE:HD2	2:156:B:PHE:HD2	8	2.33	0.73	2.62
(1,737)	2:153:B:VAL:HG21	2:156:B:PHE:HD2	8	0.92	0.12	0.94
(1,737)	2:153:B:VAL:HG22	2:156:B:PHE:HD2	8	0.92	0.12	0.94
(1,737)	2:153:B:VAL:HG23	2:156:B:PHE:HD2	8	0.92	0.12	0.94

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,370)	1:17:A:ASN:HB3	1:43:A:ILE:HG21	8	0.44	0.18	0.42
(1,370)	1:17:A:ASN:HB3	1:43:A:ILE:HG22	8	0.44	0.18	0.42
(1,370)	1:17:A:ASN:HB3	1:43:A:ILE:HG23	8	0.44	0.18	0.42
(1,881)	2:159:B:LYS:H	2:160:B:GLU:HB2	8	0.26	0.12	0.21
(1,881)	2:159:B:LYS:H	2:160:B:GLU:HB3	8	0.26	0.12	0.21
(1,979)	1:40:A:GLY:HA2	1:42:A:CYS:H	8	0.22	0.1	0.18
(1,979)	1:40:A:GLY:HA3	1:42:A:CYS:H	8	0.22	0.1	0.18
(1,898)	2:108:B:ALA:H	2:109:B:GLN:H	8	0.2	0.09	0.18
(1,790)	2:172:B:LEU:HB2	2:174:B:VAL:HG23	7	0.72	0.28	0.71
(1,745)	2:156:B:PHE:HD1	2:164:B:ILE:HD11	7	0.65	0.51	0.43
(1,745)	2:156:B:PHE:HD1	2:164:B:ILE:HD12	7	0.65	0.51	0.43
(1,745)	2:156:B:PHE:HD1	2:164:B:ILE:HD13	7	0.65	0.51	0.43
(1,862)	2:166:B:THR:HG1	2:167:B:MET:H	7	0.45	0.25	0.4
(1,463)	1:43:A:ILE:HG12	1:44:A:CYS:H	7	0.29	0.08	0.3
(1,333)	1:9:A:PRO:HG2	1:18:A:LEU:HG	7	0.27	0.15	0.18
(1,442)	1:35:A:ASP:HB2	2:120:B:PHE:HD1	6	0.54	0.23	0.44
(1,309)	1:2:A:GLY:HA2	1:43:A:ILE:HD12	6	0.51	0.13	0.46
(1,403)	1:25:A:CYS:HA	1:41:A:ALA:HB3	6	0.42	0.21	0.39
(1,392)	1:21:A:ALA:HB1	2:119:B:LEU:HD12	6	0.39	0.15	0.36
(1,254)	1:49:A:TYR:H	1:49:A:TYR:HD2	6	0.2	0.09	0.18
(1,894)	2:157:B:SER:H	2:159:B:LYS:H	6	0.18	0.08	0.14
(1,379)	1:19:A:LEU:HD11	2:165:B:TYR:HD2	5	1.62	0.95	1.63
(1,379)	1:19:A:LEU:HD12	2:165:B:TYR:HD2	5	1.62	0.95	1.63
(1,379)	1:19:A:LEU:HD13	2:165:B:TYR:HD2	5	1.62	0.95	1.63
(1,674)	2:132:B:TYR:HD1	2:137:B:GLN:HB3	5	1.45	0.75	1.72
(1,605)	2:114:B:THR:HG1	2:116:B:LYS:HB3	5	0.56	0.3	0.73
(1,785)	2:169:B:TYR:HD2	2:174:B:VAL:HG21	5	0.3	0.04	0.3
(1,785)	2:169:B:TYR:HD2	2:174:B:VAL:HG22	5	0.3	0.04	0.3
(1,785)	2:169:B:TYR:HD2	2:174:B:VAL:HG23	5	0.3	0.04	0.3
(1,346)	1:12:A:PHE:HB2	2:132:B:TYR:HD1	5	0.29	0.13	0.27
(1,660)	2:127:B:MET:HA	2:132:B:TYR:HD2	4	2.16	0.6	2.02
(1,301)	1:1:A:SER:HB2	1:24:A:VAL:HA	4	0.78	0.31	0.68
(1,663)	2:128:B:THR:HA	2:130:B:ARG:HG3	4	0.41	0.27	0.4
(1,444)	1:35:A:ASP:HB2	2:120:B:PHE:HE1	4	0.4	0.28	0.28
(1,755)	2:160:B:GLU:HB3	2:163:B:LYS:HD3	4	0.4	0.19	0.43
(1,414)	1:28:A:ILE:HG21	1:39:A:PRO:HG3	4	0.32	0.15	0.29
(1,414)	1:28:A:ILE:HG22	1:39:A:PRO:HG3	4	0.32	0.15	0.29
(1,414)	1:28:A:ILE:HG23	1:39:A:PRO:HG3	4	0.32	0.15	0.29
(1,577)	2:104:B:LYS:HD3	2:109:B:GLN:HA	4	0.32	0.29	0.16
(1,302)	1:1:A:SER:HB3	1:25:A:CYS:H	4	0.28	0.14	0.24
(1,435)	1:33:A:ARG:HG2	1:34:A:ARG:H	4	0.24	0.19	0.14
(1,827)	2:112:B:THR:H	2:112:B:THR:HG1	4	0.22	0.02	0.21

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,315)	1:3:A:SER:HB2	1:43:A:ILE:HD11	3	1.1	0.58	1.09
(1,546)	2:100:B:LEU:HG	2:104:B:LYS:HG3	3	0.6	0.66	0.16
(1,650)	2:125:B:TYR:HD2	2:147:B:LEU:HD21	3	0.51	0.17	0.63
(1,650)	2:125:B:TYR:HD2	2:147:B:LEU:HD22	3	0.51	0.17	0.63
(1,650)	2:125:B:TYR:HD2	2:147:B:LEU:HD23	3	0.51	0.17	0.63
(1,318)	1:3:A:SER:HB3	1:45:A:ARG:HG2	3	0.45	0.36	0.24
(1,310)	1:2:A:GLY:HA3	1:20:A:SER:H	3	0.33	0.09	0.32
(1,304)	1:2:A:GLY:H	1:43:A:ILE:HG23	3	0.33	0.19	0.21
(1,590)	2:110:B:LYS:HB2	2:112:B:THR:H	3	0.32	0.04	0.32
(1,960)	1:45:A:ARG:HA	1:47:A:ASN:H	3	0.3	0.08	0.32
(1,371)	1:17:A:ASN:HB3	1:43:A:ILE:HG12	3	0.29	0.08	0.3
(1,371)	1:17:A:ASN:HB3	1:43:A:ILE:HG13	3	0.29	0.08	0.3
(1,562)	2:102:B:LEU:HD11	2:147:B:LEU:HA	3	0.29	0.12	0.37
(1,562)	2:102:B:LEU:HD12	2:147:B:LEU:HA	3	0.29	0.12	0.37
(1,562)	2:102:B:LEU:HD13	2:147:B:LEU:HA	3	0.29	0.12	0.37
(1,900)	2:169:B:TYR:H	2:170:B:ARG:HG2	3	0.23	0.06	0.24
(1,900)	2:169:B:TYR:H	2:170:B:ARG:HG3	3	0.23	0.06	0.24
(1,526)	2:98:B:LEU:HD13	2:146:B:LEU:HD11	3	0.22	0.08	0.2
(1,526)	2:98:B:LEU:HD13	2:146:B:LEU:HD12	3	0.22	0.08	0.2
(1,526)	2:98:B:LEU:HD13	2:146:B:LEU:HD13	3	0.22	0.08	0.2
(1,869)	2:129:B:LYS:H	2:130:B:ARG:HD2	3	0.21	0.0	0.21
(1,869)	2:129:B:LYS:H	2:130:B:ARG:HD3	3	0.21	0.0	0.21
(1,959)	1:45:A:ARG:HG2	1:47:A:ASN:H	3	0.19	0.05	0.16
(1,959)	1:45:A:ARG:HG3	1:47:A:ASN:H	3	0.19	0.05	0.16
(1,337)	1:10:A:THR:HG21	1:11:A:SER:HB3	3	0.16	0.02	0.16
(1,337)	1:10:A:THR:HG22	1:11:A:SER:HB3	3	0.16	0.02	0.16
(1,337)	1:10:A:THR:HG23	1:11:A:SER:HB3	3	0.16	0.02	0.16
(1,618)	2:117:B:GLU:HB3	2:121:B:TYR:HD2	2	1.91	0.21	1.91
(1,580)	2:106:B:VAL:HB	2:121:B:TYR:HD1	2	1.84	0.54	1.84
(1,404)	1:25:A:CYS:HB2	1:41:A:ALA:HB3	2	1.7	0.06	1.7
(1,428)	1:31:A:ARG:HB2	1:49:A:TYR:HE2	2	1.23	0.92	1.23
(1,581)	2:106:B:VAL:HG11	2:121:B:TYR:HD1	2	1.16	0.18	1.16
(1,581)	2:106:B:VAL:HG12	2:121:B:TYR:HD1	2	1.16	0.18	1.16
(1,581)	2:106:B:VAL:HG13	2:121:B:TYR:HD1	2	1.16	0.18	1.16
(1,316)	1:3:A:SER:HB2	1:51:A:GLY:HA3	2	1.14	0.38	1.14
(1,763)	2:163:B:LYS:HG2	2:164:B:ILE:HD11	2	0.9	0.12	0.9
(1,763)	2:163:B:LYS:HG2	2:164:B:ILE:HD12	2	0.9	0.12	0.9
(1,763)	2:163:B:LYS:HG2	2:164:B:ILE:HD13	2	0.9	0.12	0.9
(1,427)	1:31:A:ARG:HA	1:49:A:TYR:HD2	2	0.71	0.55	0.71
(1,561)	2:102:B:LEU:HD11	2:147:B:LEU:HB2	2	0.6	0.0	0.6
(1,561)	2:102:B:LEU:HD12	2:147:B:LEU:HB2	2	0.6	0.0	0.6
(1,561)	2:102:B:LEU:HD13	2:147:B:LEU:HB2	2	0.6	0.0	0.6

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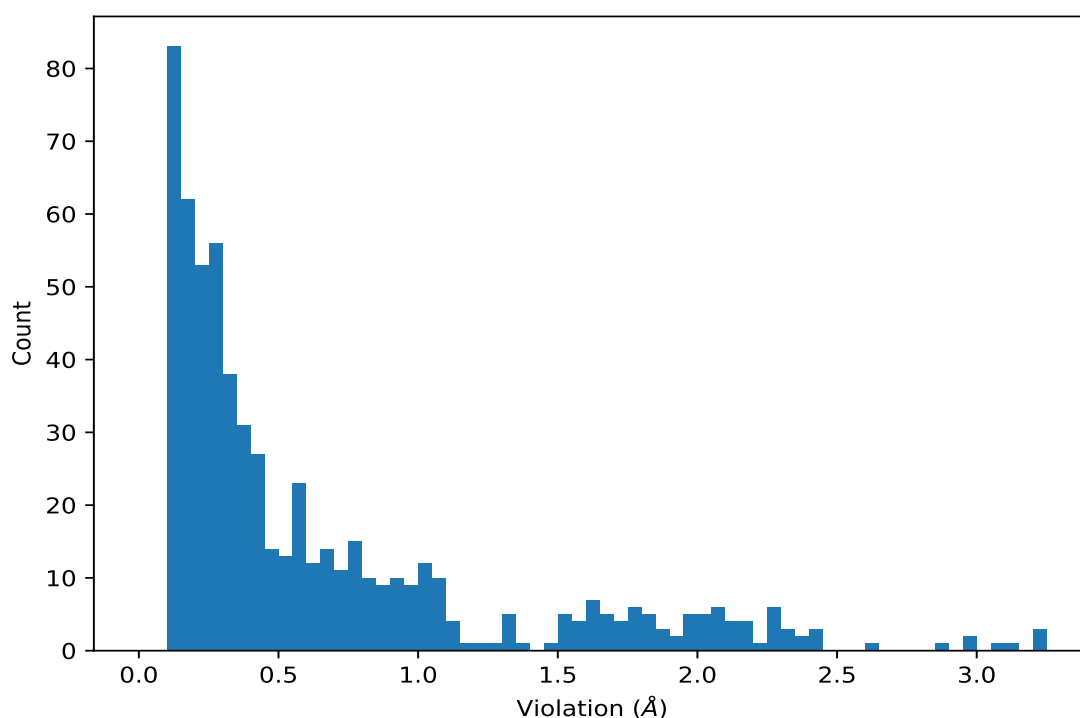
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,349)	1:12:A:PHE:HD2	2:127:B:MET:HB2	2	0.59	0.42	0.59
(1,723)	2:147:B:LEU:HD12	2:150:B:LEU:HD11	2	0.51	0.38	0.51
(1,723)	2:147:B:LEU:HD12	2:150:B:LEU:HD12	2	0.51	0.38	0.51
(1,723)	2:147:B:LEU:HD12	2:150:B:LEU:HD13	2	0.51	0.38	0.51
(1,680)	2:133:B:ASP:HB3	2:139:B:ILE:HB	2	0.49	0.15	0.49
(1,770)	2:165:B:TYR:HA	2:168:B:ILE:HD12	2	0.46	0.11	0.46
(1,329)	1:9:A:PRO:HB2	1:11:A:SER:H	2	0.41	0.1	0.41
(1,722)	2:147:B:LEU:HD11	2:150:B:LEU:HG	2	0.28	0.06	0.28
(1,722)	2:147:B:LEU:HD12	2:150:B:LEU:HG	2	0.28	0.06	0.28
(1,722)	2:147:B:LEU:HD13	2:150:B:LEU:HG	2	0.28	0.06	0.28
(1,679)	2:133:B:ASP:HB3	2:137:B:GLN:HA	2	0.28	0.16	0.28
(1,450)	1:38:A:CYS:HB3	1:50:A:CYS:HB3	2	0.26	0.02	0.26
(1,655)	2:126:B:ILE:HG21	2:132:B:TYR:HB3	2	0.23	0.07	0.23
(1,655)	2:126:B:ILE:HG22	2:132:B:TYR:HB3	2	0.23	0.07	0.23
(1,655)	2:126:B:ILE:HG23	2:132:B:TYR:HB3	2	0.23	0.07	0.23
(1,423)	1:30:A:GLN:HB3	1:50:A:CYS:HB2	2	0.22	0.06	0.22
(1,676)	2:133:B:ASP:HB2	2:139:B:ILE:HB	2	0.21	0.08	0.21
(1,874)	2:129:B:LYS:HG2	2:130:B:ARG:H	2	0.18	0.08	0.18
(1,874)	2:129:B:LYS:HG3	2:130:B:ARG:H	2	0.18	0.08	0.18
(1,335)	1:9:A:PRO:HD3	1:18:A:LEU:HD11	2	0.17	0.03	0.17
(1,335)	1:9:A:PRO:HD3	1:18:A:LEU:HD12	2	0.17	0.03	0.17
(1,335)	1:9:A:PRO:HD3	1:18:A:LEU:HD13	2	0.17	0.03	0.17
(1,351)	1:13:A:ALA:HB2	2:127:B:MET:HE2	2	0.13	0.01	0.13
(1,93)	1:22:A:GLY:HA2	2:117:B:GLU:H	2	0.1	0.0	0.1
(1,93)	1:22:A:GLY:HA3	2:117:B:GLU:H	2	0.1	0.0	0.1

¹Number of violated models, ²Standard deviation

9.5 All violated distance restraints [i](#)

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

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



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

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

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,379)	1:19:A:LEU:HD11	2:165:B:TYR:HD2	2	3.24
(1,379)	1:19:A:LEU:HD12	2:165:B:TYR:HD2	2	3.24
(1,379)	1:19:A:LEU:HD13	2:165:B:TYR:HD2	2	3.24
(1,660)	2:127:B:MET:HA	2:132:B:TYR:HD2	7	3.12
(1,731)	2:151:B:PHE:HD2	2:156:B:PHE:HD2	4	3.08
(1,731)	2:151:B:PHE:HD2	2:156:B:PHE:HD2	5	2.98
(1,731)	2:151:B:PHE:HD2	2:156:B:PHE:HD2	6	2.98
(1,731)	2:151:B:PHE:HD2	2:156:B:PHE:HD2	3	2.85
(1,771)	2:165:B:TYR:HB3	2:169:B:TYR:HD1	9	2.63
(1,784)	2:169:B:TYR:HD2	2:172:B:LEU:HD11	6	2.43
(1,784)	2:169:B:TYR:HD2	2:172:B:LEU:HD12	6	2.43
(1,784)	2:169:B:TYR:HD2	2:172:B:LEU:HD13	6	2.43
(1,731)	2:151:B:PHE:HD2	2:156:B:PHE:HD2	10	2.38
(1,580)	2:106:B:VAL:HB	2:121:B:TYR:HD1	5	2.38
(1,784)	2:169:B:TYR:HD2	2:172:B:LEU:HD11	3	2.34
(1,784)	2:169:B:TYR:HD2	2:172:B:LEU:HD12	3	2.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,784)	2:169:B:TYR:HD2	2:172:B:LEU:HD13	3	2.34
(1,771)	2:165:B:TYR:HB3	2:169:B:TYR:HD1	2	2.3
(1,674)	2:132:B:TYR:HD1	2:137:B:GLN:HB3	7	2.27
(1,771)	2:165:B:TYR:HB3	2:169:B:TYR:HD1	4	2.26
(1,784)	2:169:B:TYR:HD2	2:172:B:LEU:HD11	5	2.25
(1,784)	2:169:B:TYR:HD2	2:172:B:LEU:HD12	5	2.25
(1,784)	2:169:B:TYR:HD2	2:172:B:LEU:HD13	5	2.25
(1,771)	2:165:B:TYR:HB3	2:169:B:TYR:HD1	10	2.22
(1,660)	2:127:B:MET:HA	2:132:B:TYR:HD2	1	2.16
(1,784)	2:169:B:TYR:HD2	2:172:B:LEU:HD11	4	2.15
(1,784)	2:169:B:TYR:HD2	2:172:B:LEU:HD12	4	2.15
(1,784)	2:169:B:TYR:HD2	2:172:B:LEU:HD13	4	2.15
(1,428)	1:31:A:ARG:HB2	1:49:A:TYR:HE2	2	2.14
(1,594)	2:112:B:THR:HA	2:113:B:TYR:HD1	9	2.13
(1,618)	2:117:B:GLU:HB3	2:121:B:TYR:HD2	5	2.12
(1,594)	2:112:B:THR:HA	2:113:B:TYR:HD1	2	2.11
(1,594)	2:112:B:THR:HA	2:113:B:TYR:HD1	7	2.09
(1,594)	2:112:B:THR:HA	2:113:B:TYR:HD1	3	2.08
(1,594)	2:112:B:THR:HA	2:113:B:TYR:HD1	6	2.07
(1,784)	2:169:B:TYR:HD2	2:172:B:LEU:HD11	1	2.06
(1,784)	2:169:B:TYR:HD2	2:172:B:LEU:HD12	1	2.06
(1,784)	2:169:B:TYR:HD2	2:172:B:LEU:HD13	1	2.06
(1,594)	2:112:B:THR:HA	2:113:B:TYR:HD1	8	2.05
(1,771)	2:165:B:TYR:HB3	2:169:B:TYR:HD1	1	2.04
(1,594)	2:112:B:THR:HA	2:113:B:TYR:HD1	5	2.04
(1,771)	2:165:B:TYR:HB3	2:169:B:TYR:HD1	7	2.03
(1,967)	1:5:A:ALA:H	1:16:A:TRP:H	5	2.02
(1,674)	2:132:B:TYR:HD1	2:137:B:GLN:HB3	9	1.99
(1,594)	2:112:B:THR:HA	2:113:B:TYR:HD1	10	1.98
(1,784)	2:169:B:TYR:HD2	2:172:B:LEU:HD11	9	1.97
(1,784)	2:169:B:TYR:HD2	2:172:B:LEU:HD12	9	1.97
(1,784)	2:169:B:TYR:HD2	2:172:B:LEU:HD13	9	1.97
(1,771)	2:165:B:TYR:HB3	2:169:B:TYR:HD1	8	1.94
(1,771)	2:165:B:TYR:HB3	2:169:B:TYR:HD1	5	1.91
(1,660)	2:127:B:MET:HA	2:132:B:TYR:HD2	8	1.89
(1,594)	2:112:B:THR:HA	2:113:B:TYR:HD1	1	1.89
(1,771)	2:165:B:TYR:HB3	2:169:B:TYR:HD1	3	1.86
(1,315)	1:3:A:SER:HB2	1:43:A:ILE:HD11	9	1.81
(1,967)	1:5:A:ALA:H	1:16:A:TRP:H	3	1.8
(1,784)	2:169:B:TYR:HD2	2:172:B:LEU:HD11	8	1.8
(1,784)	2:169:B:TYR:HD2	2:172:B:LEU:HD12	8	1.8
(1,784)	2:169:B:TYR:HD2	2:172:B:LEU:HD13	8	1.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,967)	1:5:A:ALA:H	1:16:A:TRP:H	4	1.79
(1,967)	1:5:A:ALA:H	1:16:A:TRP:H	6	1.79
(1,379)	1:19:A:LEU:HD11	2:165:B:TYR:HD2	10	1.79
(1,379)	1:19:A:LEU:HD12	2:165:B:TYR:HD2	10	1.79
(1,379)	1:19:A:LEU:HD13	2:165:B:TYR:HD2	10	1.79
(1,404)	1:25:A:CYS:HB2	1:41:A:ALA:HB3	7	1.76
(1,967)	1:5:A:ALA:H	1:16:A:TRP:H	1	1.74
(1,967)	1:5:A:ALA:H	1:16:A:TRP:H	2	1.73
(1,967)	1:5:A:ALA:H	1:16:A:TRP:H	9	1.73
(1,674)	2:132:B:TYR:HD1	2:137:B:GLN:HB3	1	1.72
(1,618)	2:117:B:GLU:HB3	2:121:B:TYR:HD2	7	1.7
(1,731)	2:151:B:PHE:HD2	2:156:B:PHE:HD2	9	1.69
(1,745)	2:156:B:PHE:HD1	2:164:B:ILE:HD11	3	1.66
(1,745)	2:156:B:PHE:HD1	2:164:B:ILE:HD12	3	1.66
(1,745)	2:156:B:PHE:HD1	2:164:B:ILE:HD13	3	1.66
(1,404)	1:25:A:CYS:HB2	1:41:A:ALA:HB3	6	1.65
(1,967)	1:5:A:ALA:H	1:16:A:TRP:H	7	1.63
(1,967)	1:5:A:ALA:H	1:16:A:TRP:H	10	1.63
(1,379)	1:19:A:LEU:HD11	2:165:B:TYR:HD2	3	1.63
(1,379)	1:19:A:LEU:HD12	2:165:B:TYR:HD2	3	1.63
(1,379)	1:19:A:LEU:HD13	2:165:B:TYR:HD2	3	1.63
(1,731)	2:151:B:PHE:HD2	2:156:B:PHE:HD2	7	1.62
(1,784)	2:169:B:TYR:HD2	2:172:B:LEU:HD11	7	1.59
(1,784)	2:169:B:TYR:HD2	2:172:B:LEU:HD12	7	1.59
(1,784)	2:169:B:TYR:HD2	2:172:B:LEU:HD13	7	1.59
(1,967)	1:5:A:ALA:H	1:16:A:TRP:H	8	1.55
(1,546)	2:100:B:LEU:HG	2:104:B:LYS:HG3	7	1.53
(1,784)	2:169:B:TYR:HD2	2:172:B:LEU:HD11	10	1.52
(1,784)	2:169:B:TYR:HD2	2:172:B:LEU:HD12	10	1.52
(1,784)	2:169:B:TYR:HD2	2:172:B:LEU:HD13	10	1.52
(1,316)	1:3:A:SER:HB2	1:51:A:GLY:HA3	9	1.52
(1,660)	2:127:B:MET:HA	2:132:B:TYR:HD2	9	1.49
(1,594)	2:112:B:THR:HA	2:113:B:TYR:HD1	4	1.38
(1,581)	2:106:B:VAL:HG11	2:121:B:TYR:HD1	5	1.34
(1,581)	2:106:B:VAL:HG12	2:121:B:TYR:HD1	5	1.34
(1,581)	2:106:B:VAL:HG13	2:121:B:TYR:HD1	5	1.34
(1,580)	2:106:B:VAL:HB	2:121:B:TYR:HD1	7	1.3
(1,301)	1:1:A:SER:HB2	1:24:A:VAL:HA	9	1.3
(1,427)	1:31:A:ARG:HA	1:49:A:TYR:HD2	2	1.26
(1,771)	2:165:B:TYR:HB3	2:169:B:TYR:HD1	6	1.21
(1,790)	2:172:B:LEU:HB2	2:174:B:VAL:HG23	6	1.2
(1,674)	2:132:B:TYR:HD1	2:137:B:GLN:HB3	8	1.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,737)	2:153:B:VAL:HG21	2:156:B:PHE:HD2	7	1.1
(1,737)	2:153:B:VAL:HG22	2:156:B:PHE:HD2	7	1.1
(1,737)	2:153:B:VAL:HG23	2:156:B:PHE:HD2	7	1.1
(1,315)	1:3:A:SER:HB2	1:43:A:ILE:HD11	8	1.09
(1,745)	2:156:B:PHE:HD1	2:164:B:ILE:HD11	9	1.07
(1,745)	2:156:B:PHE:HD1	2:164:B:ILE:HD12	9	1.07
(1,745)	2:156:B:PHE:HD1	2:164:B:ILE:HD13	9	1.07
(1,737)	2:153:B:VAL:HG21	2:156:B:PHE:HD2	9	1.05
(1,737)	2:153:B:VAL:HG22	2:156:B:PHE:HD2	9	1.05
(1,737)	2:153:B:VAL:HG23	2:156:B:PHE:HD2	9	1.05
(1,379)	1:19:A:LEU:HD11	2:165:B:TYR:HD2	5	1.05
(1,379)	1:19:A:LEU:HD12	2:165:B:TYR:HD2	5	1.05
(1,379)	1:19:A:LEU:HD13	2:165:B:TYR:HD2	5	1.05
(1,950)	1:43:A:ILE:H	1:51:A:GLY:H	7	1.03
(1,890)	2:107:B:GLY:H	2:109:B:GLN:H	4	1.02
(1,731)	2:151:B:PHE:HD2	2:156:B:PHE:HD2	2	1.02
(1,763)	2:163:B:LYS:HG2	2:164:B:ILE:HD11	9	1.01
(1,763)	2:163:B:LYS:HG2	2:164:B:ILE:HD12	9	1.01
(1,763)	2:163:B:LYS:HG2	2:164:B:ILE:HD13	9	1.01
(1,349)	1:12:A:PHE:HD2	2:127:B:MET:HB2	5	1.01
(1,958)	1:16:A:TRP:H	1:18:A:LEU:H	5	1.0
(1,737)	2:153:B:VAL:HG21	2:156:B:PHE:HD2	5	1.0
(1,737)	2:153:B:VAL:HG22	2:156:B:PHE:HD2	5	1.0
(1,737)	2:153:B:VAL:HG23	2:156:B:PHE:HD2	5	1.0
(1,305)	1:2:A:GLY:H	1:43:A:ILE:HD12	6	1.0
(1,581)	2:106:B:VAL:HG11	2:121:B:TYR:HD1	7	0.99
(1,581)	2:106:B:VAL:HG12	2:121:B:TYR:HD1	7	0.99
(1,581)	2:106:B:VAL:HG13	2:121:B:TYR:HD1	7	0.99
(1,442)	1:35:A:ASP:HB2	2:120:B:PHE:HD1	9	0.99
(1,790)	2:172:B:LEU:HB2	2:174:B:VAL:HG23	5	0.98
(1,525)	2:98:B:LEU:HD12	2:150:B:LEU:HB3	5	0.98
(1,737)	2:153:B:VAL:HG21	2:156:B:PHE:HD2	6	0.96
(1,737)	2:153:B:VAL:HG22	2:156:B:PHE:HD2	6	0.96
(1,737)	2:153:B:VAL:HG23	2:156:B:PHE:HD2	6	0.96
(1,784)	2:169:B:TYR:HD2	2:172:B:LEU:HD11	2	0.95
(1,784)	2:169:B:TYR:HD2	2:172:B:LEU:HD12	2	0.95
(1,784)	2:169:B:TYR:HD2	2:172:B:LEU:HD13	2	0.95
(1,318)	1:3:A:SER:HB3	1:45:A:ARG:HG2	9	0.95
(1,862)	2:166:B:THR:HG1	2:167:B:MET:H	5	0.94
(1,737)	2:153:B:VAL:HG21	2:156:B:PHE:HD2	4	0.93
(1,737)	2:153:B:VAL:HG22	2:156:B:PHE:HD2	4	0.93
(1,737)	2:153:B:VAL:HG23	2:156:B:PHE:HD2	4	0.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,605)	2:114:B:THR:HG1	2:116:B:LYS:HB3	4	0.9
(1,601)	2:113:B:TYR:HD2	2:117:B:GLU:HB3	6	0.9
(1,890)	2:107:B:GLY:H	2:109:B:GLN:H	6	0.89
(1,723)	2:147:B:LEU:HD12	2:150:B:LEU:HD11	9	0.89
(1,723)	2:147:B:LEU:HD12	2:150:B:LEU:HD12	9	0.89
(1,723)	2:147:B:LEU:HD12	2:150:B:LEU:HD13	9	0.89
(1,444)	1:35:A:ASP:HB2	2:120:B:PHE:HE1	9	0.89
(1,665)	2:129:B:LYS:HB3	2:131:B:LEU:HG	7	0.88
(1,737)	2:153:B:VAL:HG21	2:156:B:PHE:HD2	3	0.86
(1,737)	2:153:B:VAL:HG22	2:156:B:PHE:HD2	3	0.86
(1,737)	2:153:B:VAL:HG23	2:156:B:PHE:HD2	3	0.86
(1,958)	1:16:A:TRP:H	1:18:A:LEU:H	1	0.85
(1,683)	2:135:B:LYS:HB2	2:136:B:GLN:HG3	7	0.85
(1,958)	1:16:A:TRP:H	1:18:A:LEU:H	3	0.83
(1,890)	2:107:B:GLY:H	2:109:B:GLN:H	1	0.83
(1,577)	2:104:B:LYS:HD3	2:109:B:GLN:HA	7	0.82
(1,601)	2:113:B:TYR:HD2	2:117:B:GLU:HB3	3	0.81
(1,890)	2:107:B:GLY:H	2:109:B:GLN:H	9	0.8
(1,370)	1:17:A:ASN:HB3	1:43:A:ILE:HG21	5	0.8
(1,370)	1:17:A:ASN:HB3	1:43:A:ILE:HG22	5	0.8
(1,370)	1:17:A:ASN:HB3	1:43:A:ILE:HG23	5	0.8
(1,601)	2:113:B:TYR:HD2	2:117:B:GLU:HB3	7	0.79
(1,375)	1:19:A:LEU:HB3	1:21:A:ALA:HB2	7	0.79
(1,763)	2:163:B:LYS:HG2	2:164:B:ILE:HD11	3	0.78
(1,763)	2:163:B:LYS:HG2	2:164:B:ILE:HD12	3	0.78
(1,763)	2:163:B:LYS:HG2	2:164:B:ILE:HD13	3	0.78
(1,958)	1:16:A:TRP:H	1:18:A:LEU:H	2	0.77
(1,737)	2:153:B:VAL:HG21	2:156:B:PHE:HD2	2	0.77
(1,737)	2:153:B:VAL:HG22	2:156:B:PHE:HD2	2	0.77
(1,737)	2:153:B:VAL:HG23	2:156:B:PHE:HD2	2	0.77
(1,605)	2:114:B:THR:HG1	2:116:B:LYS:HB3	5	0.77
(1,309)	1:2:A:GLY:HA2	1:43:A:ILE:HD12	10	0.77
(1,790)	2:172:B:LEU:HB2	2:174:B:VAL:HG23	7	0.76
(1,316)	1:3:A:SER:HB2	1:51:A:GLY:HA3	8	0.76
(1,958)	1:16:A:TRP:H	1:18:A:LEU:H	4	0.75
(1,958)	1:16:A:TRP:H	1:18:A:LEU:H	9	0.75
(1,745)	2:156:B:PHE:HD1	2:164:B:ILE:HD11	10	0.74
(1,745)	2:156:B:PHE:HD1	2:164:B:ILE:HD12	10	0.74
(1,745)	2:156:B:PHE:HD1	2:164:B:ILE:HD13	10	0.74
(1,601)	2:113:B:TYR:HD2	2:117:B:GLU:HB3	8	0.74
(1,737)	2:153:B:VAL:HG21	2:156:B:PHE:HD2	10	0.73
(1,737)	2:153:B:VAL:HG22	2:156:B:PHE:HD2	10	0.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,737)	2:153:B:VAL:HG23	2:156:B:PHE:HD2	10	0.73
(1,605)	2:114:B:THR:HG1	2:116:B:LYS:HB3	6	0.73
(1,301)	1:1:A:SER:HB2	1:24:A:VAL:HA	8	0.73
(1,958)	1:16:A:TRP:H	1:18:A:LEU:H	6	0.72
(1,790)	2:172:B:LEU:HB2	2:174:B:VAL:HG23	10	0.71
(1,663)	2:128:B:THR:HA	2:130:B:ARG:HG3	5	0.7
(1,403)	1:25:A:CYS:HA	1:41:A:ALA:HB3	6	0.7
(1,958)	1:16:A:TRP:H	1:18:A:LEU:H	10	0.69
(1,890)	2:107:B:GLY:H	2:109:B:GLN:H	10	0.69
(1,442)	1:35:A:ASP:HB2	2:120:B:PHE:HD1	6	0.69
(1,890)	2:107:B:GLY:H	2:109:B:GLN:H	3	0.68
(1,601)	2:113:B:TYR:HD2	2:117:B:GLU:HB3	2	0.68
(1,406)	1:25:A:CYS:HB3	1:27:A:LYS:HG2	5	0.68
(1,406)	1:25:A:CYS:HB3	1:27:A:LYS:HG3	5	0.68
(1,958)	1:16:A:TRP:H	1:18:A:LEU:H	7	0.67
(1,392)	1:21:A:ALA:HB1	2:119:B:LEU:HD12	6	0.67
(1,403)	1:25:A:CYS:HA	1:41:A:ALA:HB3	7	0.66
(1,958)	1:16:A:TRP:H	1:18:A:LEU:H	8	0.65
(1,663)	2:128:B:THR:HA	2:130:B:ARG:HG3	7	0.65
(1,890)	2:107:B:GLY:H	2:109:B:GLN:H	8	0.64
(1,680)	2:133:B:ASP:HB3	2:139:B:ILE:HB	7	0.64
(1,650)	2:125:B:TYR:HD2	2:147:B:LEU:HD21	7	0.64
(1,650)	2:125:B:TYR:HD2	2:147:B:LEU:HD22	7	0.64
(1,650)	2:125:B:TYR:HD2	2:147:B:LEU:HD23	7	0.64
(1,549)	2:101:B:LYS:HA	2:104:B:LYS:HB2	5	0.64
(1,650)	2:125:B:TYR:HD2	2:147:B:LEU:HD21	9	0.63
(1,650)	2:125:B:TYR:HD2	2:147:B:LEU:HD22	9	0.63
(1,650)	2:125:B:TYR:HD2	2:147:B:LEU:HD23	9	0.63
(1,332)	1:9:A:PRO:HG2	1:14:A:GLU:HB3	5	0.63
(1,301)	1:1:A:SER:HB2	1:24:A:VAL:HA	10	0.63
(1,862)	2:166:B:THR:HG1	2:167:B:MET:H	7	0.62
(1,755)	2:160:B:GLU:HB3	2:163:B:LYS:HD3	5	0.6
(1,561)	2:102:B:LEU:HD11	2:147:B:LEU:HB2	5	0.6
(1,561)	2:102:B:LEU:HD12	2:147:B:LEU:HB2	5	0.6
(1,561)	2:102:B:LEU:HD13	2:147:B:LEU:HB2	5	0.6
(1,561)	2:102:B:LEU:HD11	2:147:B:LEU:HB2	6	0.6
(1,561)	2:102:B:LEU:HD12	2:147:B:LEU:HB2	6	0.6
(1,561)	2:102:B:LEU:HD13	2:147:B:LEU:HB2	6	0.6
(1,304)	1:2:A:GLY:H	1:43:A:ILE:HG23	6	0.6
(1,890)	2:107:B:GLY:H	2:109:B:GLN:H	2	0.59
(1,890)	2:107:B:GLY:H	2:109:B:GLN:H	5	0.59
(1,890)	2:107:B:GLY:H	2:109:B:GLN:H	7	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,790)	2:172:B:LEU:HB2	2:174:B:VAL:HG23	3	0.57
(1,770)	2:165:B:TYR:HA	2:168:B:ILE:HD12	5	0.57
(1,755)	2:160:B:GLU:HB3	2:163:B:LYS:HD3	6	0.57
(1,309)	1:2:A:GLY:HA2	1:43:A:ILE:HD12	4	0.57
(1,953)	1:42:A:CYS:HB2	1:51:A:GLY:H	9	0.56
(1,953)	1:42:A:CYS:HB3	1:51:A:GLY:H	9	0.56
(1,601)	2:113:B:TYR:HD2	2:117:B:GLU:HB3	5	0.56
(1,435)	1:33:A:ARG:HG2	1:34:A:ARG:H	10	0.56
(1,414)	1:28:A:ILE:HG21	1:39:A:PRO:HG3	6	0.56
(1,414)	1:28:A:ILE:HG22	1:39:A:PRO:HG3	6	0.56
(1,414)	1:28:A:ILE:HG23	1:39:A:PRO:HG3	6	0.56
(1,601)	2:113:B:TYR:HD2	2:117:B:GLU:HB3	4	0.55
(1,319)	1:3:A:SER:HB3	1:45:A:ARG:HD3	9	0.53
(1,601)	2:113:B:TYR:HD2	2:117:B:GLU:HB3	10	0.52
(1,370)	1:17:A:ASN:HB3	1:43:A:ILE:HG21	4	0.52
(1,370)	1:17:A:ASN:HB3	1:43:A:ILE:HG22	4	0.52
(1,370)	1:17:A:ASN:HB3	1:43:A:ILE:HG23	4	0.52
(1,346)	1:12:A:PHE:HB2	2:132:B:TYR:HD1	1	0.51
(1,333)	1:9:A:PRO:HG2	1:18:A:LEU:HG	6	0.51
(1,332)	1:9:A:PRO:HG2	1:14:A:GLU:HB3	9	0.51
(1,329)	1:9:A:PRO:HB2	1:11:A:SER:H	6	0.51
(1,302)	1:1:A:SER:HB3	1:25:A:CYS:H	1	0.51
(1,370)	1:17:A:ASN:HB3	1:43:A:ILE:HG21	10	0.5
(1,370)	1:17:A:ASN:HB3	1:43:A:ILE:HG22	10	0.5
(1,370)	1:17:A:ASN:HB3	1:43:A:ILE:HG23	10	0.5
(1,881)	2:159:B:LYS:H	2:160:B:GLU:HB2	8	0.49
(1,881)	2:159:B:LYS:H	2:160:B:GLU:HB3	8	0.49
(1,309)	1:2:A:GLY:HA2	1:43:A:ILE:HD12	1	0.49
(1,442)	1:35:A:ASP:HB2	2:120:B:PHE:HD1	5	0.48
(1,862)	2:166:B:THR:HG1	2:167:B:MET:H	6	0.47
(1,403)	1:25:A:CYS:HA	1:41:A:ALA:HB3	3	0.47
(1,333)	1:9:A:PRO:HG2	1:18:A:LEU:HG	9	0.47
(1,301)	1:1:A:SER:HB2	1:24:A:VAL:HA	7	0.47
(1,879)	2:127:B:MET:H	2:128:B:THR:HG1	8	0.46
(1,647)	2:124:B:GLN:HG3	2:128:B:THR:HG1	9	0.46
(1,392)	1:21:A:ALA:HB1	2:119:B:LEU:HD12	7	0.46
(1,881)	2:159:B:LYS:H	2:160:B:GLU:HB2	7	0.45
(1,881)	2:159:B:LYS:H	2:160:B:GLU:HB3	7	0.45
(1,310)	1:2:A:GLY:HA3	1:20:A:SER:H	9	0.45
(1,679)	2:133:B:ASP:HB3	2:137:B:GLN:HA	7	0.44
(1,745)	2:156:B:PHE:HD1	2:164:B:ILE:HD11	2	0.43
(1,745)	2:156:B:PHE:HD1	2:164:B:ILE:HD12	2	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,745)	2:156:B:PHE:HD1	2:164:B:ILE:HD13	2	0.43
(1,370)	1:17:A:ASN:HB3	1:43:A:ILE:HG21	1	0.43
(1,370)	1:17:A:ASN:HB3	1:43:A:ILE:HG22	1	0.43
(1,370)	1:17:A:ASN:HB3	1:43:A:ILE:HG23	1	0.43
(1,309)	1:2:A:GLY:HA2	1:43:A:ILE:HD12	3	0.43
(1,879)	2:127:B:MET:H	2:128:B:THR:HG1	9	0.42
(1,790)	2:172:B:LEU:HB2	2:174:B:VAL:HG23	1	0.42
(1,370)	1:17:A:ASN:HB3	1:43:A:ILE:HG21	2	0.42
(1,370)	1:17:A:ASN:HB3	1:43:A:ILE:HG22	2	0.42
(1,370)	1:17:A:ASN:HB3	1:43:A:ILE:HG23	2	0.42
(1,898)	2:108:B:ALA:H	2:109:B:GLN:H	4	0.41
(1,879)	2:127:B:MET:H	2:128:B:THR:HG1	1	0.41
(1,879)	2:127:B:MET:H	2:128:B:THR:HG1	10	0.41
(1,442)	1:35:A:ASP:HB2	2:120:B:PHE:HD1	2	0.41
(1,332)	1:9:A:PRO:HG2	1:14:A:GLU:HB3	8	0.41
(1,879)	2:127:B:MET:H	2:128:B:THR:HG1	7	0.4
(1,862)	2:166:B:THR:HG1	2:167:B:MET:H	9	0.4
(1,379)	1:19:A:LEU:HD11	2:165:B:TYR:HD2	7	0.4
(1,379)	1:19:A:LEU:HD12	2:165:B:TYR:HD2	7	0.4
(1,379)	1:19:A:LEU:HD13	2:165:B:TYR:HD2	7	0.4
(1,332)	1:9:A:PRO:HG2	1:14:A:GLU:HB3	4	0.4
(1,315)	1:3:A:SER:HB2	1:43:A:ILE:HD11	2	0.4
(1,309)	1:2:A:GLY:HA2	1:43:A:ILE:HD12	8	0.4
(1,254)	1:49:A:TYR:H	1:49:A:TYR:HD2	7	0.4
(1,979)	1:40:A:GLY:HA2	1:42:A:CYS:H	6	0.39
(1,979)	1:40:A:GLY:HA3	1:42:A:CYS:H	6	0.39
(1,979)	1:40:A:GLY:HA2	1:42:A:CYS:H	8	0.39
(1,979)	1:40:A:GLY:HA3	1:42:A:CYS:H	8	0.39
(1,862)	2:166:B:THR:HG1	2:167:B:MET:H	4	0.39
(1,442)	1:35:A:ASP:HB2	2:120:B:PHE:HD1	7	0.39
(1,370)	1:17:A:ASN:HB3	1:43:A:ILE:HG21	3	0.39
(1,370)	1:17:A:ASN:HB3	1:43:A:ILE:HG22	3	0.39
(1,370)	1:17:A:ASN:HB3	1:43:A:ILE:HG23	3	0.39
(1,332)	1:9:A:PRO:HG2	1:14:A:GLU:HB3	3	0.39
(1,960)	1:45:A:ARG:HA	1:47:A:ASN:H	7	0.38
(1,879)	2:127:B:MET:H	2:128:B:THR:HG1	4	0.38
(1,879)	2:127:B:MET:H	2:128:B:THR:HG1	6	0.38
(1,601)	2:113:B:TYR:HD2	2:117:B:GLU:HB3	1	0.38
(1,590)	2:110:B:LYS:HB2	2:112:B:THR:H	6	0.38
(1,562)	2:102:B:LEU:HD11	2:147:B:LEU:HA	6	0.38
(1,562)	2:102:B:LEU:HD12	2:147:B:LEU:HA	6	0.38
(1,562)	2:102:B:LEU:HD13	2:147:B:LEU:HA	6	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,482)	2:92:B:LEU:HB3	2:113:B:TYR:H	5	0.38
(1,392)	1:21:A:ALA:HB1	2:119:B:LEU:HD12	1	0.38
(1,371)	1:17:A:ASN:HB3	1:43:A:ILE:HG12	9	0.38
(1,371)	1:17:A:ASN:HB3	1:43:A:ILE:HG13	9	0.38
(1,309)	1:2:A:GLY:HA2	1:43:A:ILE:HD12	6	0.38
(1,790)	2:172:B:LEU:HB2	2:174:B:VAL:HG23	2	0.37
(1,562)	2:102:B:LEU:HD11	2:147:B:LEU:HA	5	0.37
(1,562)	2:102:B:LEU:HD12	2:147:B:LEU:HA	5	0.37
(1,562)	2:102:B:LEU:HD13	2:147:B:LEU:HA	5	0.37
(1,463)	1:43:A:ILE:HG12	1:44:A:CYS:H	7	0.36
(1,346)	1:12:A:PHE:HB2	2:132:B:TYR:HD1	9	0.36
(1,332)	1:9:A:PRO:HG2	1:14:A:GLU:HB3	2	0.36
(1,332)	1:9:A:PRO:HG2	1:14:A:GLU:HB3	10	0.36
(1,894)	2:157:B:SER:H	2:159:B:LYS:H	8	0.35
(1,785)	2:169:B:TYR:HD2	2:174:B:VAL:HG21	2	0.35
(1,785)	2:169:B:TYR:HD2	2:174:B:VAL:HG22	2	0.35
(1,785)	2:169:B:TYR:HD2	2:174:B:VAL:HG23	2	0.35
(1,785)	2:169:B:TYR:HD2	2:174:B:VAL:HG21	3	0.35
(1,785)	2:169:B:TYR:HD2	2:174:B:VAL:HG22	3	0.35
(1,785)	2:169:B:TYR:HD2	2:174:B:VAL:HG23	3	0.35
(1,770)	2:165:B:TYR:HA	2:168:B:ILE:HD12	6	0.35
(1,484)	2:92:B:LEU:HD11	2:112:B:THR:HG1	7	0.35
(1,484)	2:92:B:LEU:HD12	2:112:B:THR:HG1	7	0.35
(1,484)	2:92:B:LEU:HD13	2:112:B:THR:HG1	7	0.35
(1,392)	1:21:A:ALA:HB1	2:119:B:LEU:HD12	10	0.35
(1,879)	2:127:B:MET:H	2:128:B:THR:HG1	3	0.34
(1,722)	2:147:B:LEU:HD11	2:150:B:LEU:HG	9	0.34
(1,722)	2:147:B:LEU:HD12	2:150:B:LEU:HG	9	0.34
(1,722)	2:147:B:LEU:HD13	2:150:B:LEU:HG	9	0.34
(1,680)	2:133:B:ASP:HB3	2:139:B:ILE:HB	3	0.34
(1,601)	2:113:B:TYR:HD2	2:117:B:GLU:HB3	9	0.34
(1,463)	1:43:A:ILE:HG12	1:44:A:CYS:H	2	0.34
(1,414)	1:28:A:ILE:HG21	1:39:A:PRO:HG3	9	0.34
(1,414)	1:28:A:ILE:HG22	1:39:A:PRO:HG3	9	0.34
(1,414)	1:28:A:ILE:HG23	1:39:A:PRO:HG3	9	0.34
(1,308)	1:2:A:GLY:HA2	1:43:A:ILE:HG23	6	0.34
(1,526)	2:98:B:LEU:HD13	2:146:B:LEU:HD11	8	0.33
(1,526)	2:98:B:LEU:HD13	2:146:B:LEU:HD12	8	0.33
(1,526)	2:98:B:LEU:HD13	2:146:B:LEU:HD13	8	0.33
(1,370)	1:17:A:ASN:HB3	1:43:A:ILE:HG21	6	0.33
(1,370)	1:17:A:ASN:HB3	1:43:A:ILE:HG22	6	0.33
(1,370)	1:17:A:ASN:HB3	1:43:A:ILE:HG23	6	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,362)	1:15:A:TYR:HB3	2:158:B:VAL:HB	9	0.33
(1,960)	1:45:A:ARG:HA	1:47:A:ASN:H	5	0.32
(1,747)	2:157:B:SER:HB3	2:160:B:GLU:HG3	10	0.32
(1,590)	2:110:B:LYS:HB2	2:112:B:THR:H	7	0.32
(1,463)	1:43:A:ILE:HG12	1:44:A:CYS:H	6	0.32
(1,310)	1:2:A:GLY:HA3	1:20:A:SER:H	5	0.32
(1,428)	1:31:A:ARG:HB2	1:49:A:TYR:HE2	4	0.31
(1,403)	1:25:A:CYS:HA	1:41:A:ALA:HB3	10	0.31
(1,329)	1:9:A:PRO:HB2	1:11:A:SER:H	7	0.31
(1,879)	2:127:B:MET:H	2:128:B:THR:HG1	2	0.3
(1,785)	2:169:B:TYR:HD2	2:174:B:VAL:HG21	7	0.3
(1,785)	2:169:B:TYR:HD2	2:174:B:VAL:HG22	7	0.3
(1,785)	2:169:B:TYR:HD2	2:174:B:VAL:HG23	7	0.3
(1,755)	2:160:B:GLU:HB3	2:163:B:LYS:HD3	4	0.3
(1,655)	2:126:B:ILE:HG21	2:132:B:TYR:HB3	7	0.3
(1,655)	2:126:B:ILE:HG22	2:132:B:TYR:HB3	7	0.3
(1,655)	2:126:B:ILE:HG23	2:132:B:TYR:HB3	7	0.3
(1,463)	1:43:A:ILE:HG12	1:44:A:CYS:H	3	0.3
(1,442)	1:35:A:ASP:HB2	2:120:B:PHE:HD1	3	0.3
(1,371)	1:17:A:ASN:HB3	1:43:A:ILE:HG12	4	0.3
(1,371)	1:17:A:ASN:HB3	1:43:A:ILE:HG13	4	0.3
(1,900)	2:169:B:TYR:H	2:170:B:ARG:HG2	2	0.29
(1,900)	2:169:B:TYR:H	2:170:B:ARG:HG3	2	0.29
(1,895)	2:116:B:LYS:HG2	2:117:B:GLU:H	7	0.29
(1,895)	2:116:B:LYS:HG3	2:117:B:GLU:H	7	0.29
(1,879)	2:127:B:MET:H	2:128:B:THR:HG1	5	0.29
(1,745)	2:156:B:PHE:HD1	2:164:B:ILE:HD11	6	0.29
(1,745)	2:156:B:PHE:HD1	2:164:B:ILE:HD12	6	0.29
(1,745)	2:156:B:PHE:HD1	2:164:B:ILE:HD13	6	0.29
(1,727)	2:150:B:LEU:HD12	2:151:B:PHE:HD1	8	0.29
(1,676)	2:133:B:ASP:HB2	2:139:B:ILE:HB	10	0.29
(1,463)	1:43:A:ILE:HG12	1:44:A:CYS:H	5	0.29
(1,423)	1:30:A:GLN:HB3	1:50:A:CYS:HB2	6	0.29
(1,392)	1:21:A:ALA:HB1	2:119:B:LEU:HD12	9	0.29
(1,302)	1:1:A:SER:HB3	1:25:A:CYS:H	2	0.29
(1,178)	2:110:B:LYS:H	2:110:B:LYS:HE2	5	0.29
(1,178)	2:110:B:LYS:H	2:110:B:LYS:HE3	5	0.29
(1,165)	2:110:B:LYS:H	2:110:B:LYS:HE2	5	0.29
(1,165)	2:110:B:LYS:H	2:110:B:LYS:HE3	5	0.29
(1,564)	2:102:B:LEU:HD21	2:125:B:TYR:HB2	5	0.28
(1,564)	2:102:B:LEU:HD22	2:125:B:TYR:HB2	5	0.28
(1,564)	2:102:B:LEU:HD23	2:125:B:TYR:HB2	5	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,463)	1:43:A:ILE:HG12	1:44:A:CYS:H	1	0.28
(1,444)	1:35:A:ASP:HB2	2:120:B:PHE:HE1	2	0.28
(1,444)	1:35:A:ASP:HB2	2:120:B:PHE:HE1	6	0.28
(1,650)	2:125:B:TYR:HD2	2:147:B:LEU:HD21	1	0.27
(1,650)	2:125:B:TYR:HD2	2:147:B:LEU:HD22	1	0.27
(1,650)	2:125:B:TYR:HD2	2:147:B:LEU:HD23	1	0.27
(1,590)	2:110:B:LYS:HB2	2:112:B:THR:H	5	0.27
(1,450)	1:38:A:CYS:HB3	1:50:A:CYS:HB3	7	0.27
(1,346)	1:12:A:PHE:HB2	2:132:B:TYR:HD1	2	0.27
(1,959)	1:45:A:ARG:HG2	1:47:A:ASN:H	7	0.26
(1,959)	1:45:A:ARG:HG3	1:47:A:ASN:H	7	0.26
(1,874)	2:129:B:LYS:HG2	2:130:B:ARG:H	6	0.26
(1,874)	2:129:B:LYS:HG3	2:130:B:ARG:H	6	0.26
(1,785)	2:169:B:TYR:HD2	2:174:B:VAL:HG21	8	0.26
(1,785)	2:169:B:TYR:HD2	2:174:B:VAL:HG22	8	0.26
(1,785)	2:169:B:TYR:HD2	2:174:B:VAL:HG23	8	0.26
(1,377)	1:19:A:LEU:HG	1:21:A:ALA:HB2	7	0.26
(1,827)	2:112:B:THR:H	2:112:B:THR:HG1	4	0.25
(1,785)	2:169:B:TYR:HD2	2:174:B:VAL:HG21	1	0.25
(1,785)	2:169:B:TYR:HD2	2:174:B:VAL:HG22	1	0.25
(1,785)	2:169:B:TYR:HD2	2:174:B:VAL:HG23	1	0.25
(1,689)	2:138:B:HIS:HB2	2:158:B:VAL:HB	9	0.25
(1,333)	1:9:A:PRO:HG2	1:18:A:LEU:HG	8	0.25
(1,900)	2:169:B:TYR:H	2:170:B:ARG:HG2	3	0.24
(1,900)	2:169:B:TYR:H	2:170:B:ARG:HG3	3	0.24
(1,450)	1:38:A:CYS:HB3	1:50:A:CYS:HB3	5	0.24
(1,414)	1:28:A:ILE:HG21	1:39:A:PRO:HG3	7	0.24
(1,414)	1:28:A:ILE:HG22	1:39:A:PRO:HG3	7	0.24
(1,414)	1:28:A:ILE:HG23	1:39:A:PRO:HG3	7	0.24
(1,403)	1:25:A:CYS:HA	1:41:A:ALA:HB3	1	0.24
(1,332)	1:9:A:PRO:HG2	1:14:A:GLU:HB3	7	0.24
(1,318)	1:3:A:SER:HB3	1:45:A:ARG:HG2	7	0.24
(2,5)	1:33:A:ARG:HE	1:34:A:ARG:H	8	0.23
(1,898)	2:108:B:ALA:H	2:109:B:GLN:H	3	0.23
(1,605)	2:114:B:THR:HG1	2:116:B:LYS:HB3	8	0.23
(1,397)	1:22:A:GLY:HA3	2:116:B:LYS:HB2	7	0.23
(1,310)	1:2:A:GLY:HA3	1:20:A:SER:H	7	0.23
(1,881)	2:159:B:LYS:H	2:160:B:GLU:HB2	3	0.22
(1,881)	2:159:B:LYS:H	2:160:B:GLU:HB3	3	0.22
(1,827)	2:112:B:THR:H	2:112:B:THR:HG1	8	0.22
(1,745)	2:156:B:PHE:HD1	2:164:B:ILE:HD11	4	0.22
(1,745)	2:156:B:PHE:HD1	2:164:B:ILE:HD12	4	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,745)	2:156:B:PHE:HD1	2:164:B:ILE:HD13	4	0.22
(1,722)	2:147:B:LEU:HD11	2:150:B:LEU:HG	7	0.22
(1,722)	2:147:B:LEU:HD12	2:150:B:LEU:HG	7	0.22
(1,722)	2:147:B:LEU:HD13	2:150:B:LEU:HG	7	0.22
(1,332)	1:9:A:PRO:HG2	1:14:A:GLU:HB3	1	0.22
(1,881)	2:159:B:LYS:H	2:160:B:GLU:HB2	1	0.21
(1,881)	2:159:B:LYS:H	2:160:B:GLU:HB3	1	0.21
(1,881)	2:159:B:LYS:H	2:160:B:GLU:HB2	9	0.21
(1,881)	2:159:B:LYS:H	2:160:B:GLU:HB3	9	0.21
(1,869)	2:129:B:LYS:H	2:130:B:ARG:HD2	8	0.21
(1,869)	2:129:B:LYS:H	2:130:B:ARG:HD3	8	0.21
(1,869)	2:129:B:LYS:H	2:130:B:ARG:HD2	9	0.21
(1,869)	2:129:B:LYS:H	2:130:B:ARG:HD3	9	0.21
(1,460)	1:42:A:CYS:HB3	1:51:A:GLY:H	9	0.21
(1,392)	1:21:A:ALA:HB1	2:119:B:LEU:HD12	5	0.21
(1,368)	1:17:A:ASN:HA	1:43:A:ILE:HG21	5	0.21
(1,368)	1:17:A:ASN:HA	1:43:A:ILE:HG22	5	0.21
(1,368)	1:17:A:ASN:HA	1:43:A:ILE:HG23	5	0.21
(1,304)	1:2:A:GLY:H	1:43:A:ILE:HG23	7	0.21
(1,979)	1:40:A:GLY:HA2	1:42:A:CYS:H	1	0.2
(1,979)	1:40:A:GLY:HA3	1:42:A:CYS:H	1	0.2
(1,894)	2:157:B:SER:H	2:159:B:LYS:H	7	0.2
(1,881)	2:159:B:LYS:H	2:160:B:GLU:HB2	5	0.2
(1,881)	2:159:B:LYS:H	2:160:B:GLU:HB3	5	0.2
(1,869)	2:129:B:LYS:H	2:130:B:ARG:HD2	3	0.2
(1,869)	2:129:B:LYS:H	2:130:B:ARG:HD3	3	0.2
(1,827)	2:112:B:THR:H	2:112:B:THR:HG1	2	0.2
(1,526)	2:98:B:LEU:HD13	2:146:B:LEU:HD11	2	0.2
(1,526)	2:98:B:LEU:HD13	2:146:B:LEU:HD12	2	0.2
(1,526)	2:98:B:LEU:HD13	2:146:B:LEU:HD13	2	0.2
(1,514)	2:96:B:LYS:HD2	2:171:B:ASN:HA	10	0.2
(1,335)	1:9:A:PRO:HD3	1:18:A:LEU:HD11	6	0.2
(1,335)	1:9:A:PRO:HD3	1:18:A:LEU:HD12	6	0.2
(1,335)	1:9:A:PRO:HD3	1:18:A:LEU:HD13	6	0.2
(1,979)	1:40:A:GLY:HA2	1:42:A:CYS:H	3	0.19
(1,979)	1:40:A:GLY:HA3	1:42:A:CYS:H	3	0.19
(1,960)	1:45:A:ARG:HA	1:47:A:ASN:H	6	0.19
(1,898)	2:108:B:ALA:H	2:109:B:GLN:H	1	0.19
(1,827)	2:112:B:THR:H	2:112:B:THR:HG1	9	0.19
(1,371)	1:17:A:ASN:HB3	1:43:A:ILE:HG12	10	0.19
(1,371)	1:17:A:ASN:HB3	1:43:A:ILE:HG13	10	0.19
(1,337)	1:10:A:THR:HG21	1:11:A:SER:HB3	9	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,337)	1:10:A:THR:HG22	1:11:A:SER:HB3	9	0.19
(1,337)	1:10:A:THR:HG23	1:11:A:SER:HB3	9	0.19
(1,313)	1:3:A:SER:H	1:43:A:ILE:HD11	2	0.19
(1,302)	1:1:A:SER:HB3	1:25:A:CYS:H	4	0.19
(1,254)	1:49:A:TYR:H	1:49:A:TYR:HD2	3	0.19
(1,254)	1:49:A:TYR:H	1:49:A:TYR:HD2	6	0.19
(1,902)	2:117:B:GLU:HG2	2:118:B:VAL:H	1	0.18
(1,902)	2:117:B:GLU:HG3	2:118:B:VAL:H	1	0.18
(1,898)	2:108:B:ALA:H	2:109:B:GLN:H	2	0.18
(1,898)	2:108:B:ALA:H	2:109:B:GLN:H	10	0.18
(1,577)	2:104:B:LYS:HD3	2:109:B:GLN:HA	5	0.18
(1,333)	1:9:A:PRO:HG2	1:18:A:LEU:HG	4	0.18
(1,333)	1:9:A:PRO:HG2	1:18:A:LEU:HG	7	0.18
(1,304)	1:2:A:GLY:H	1:43:A:ILE:HG23	5	0.18
(1,979)	1:40:A:GLY:HA2	1:42:A:CYS:H	5	0.17
(1,979)	1:40:A:GLY:HA3	1:42:A:CYS:H	5	0.17
(1,898)	2:108:B:ALA:H	2:109:B:GLN:H	8	0.17
(1,862)	2:166:B:THR:HG1	2:167:B:MET:H	8	0.17
(1,674)	2:132:B:TYR:HD1	2:137:B:GLN:HB3	2	0.17
(1,605)	2:114:B:THR:HG1	2:116:B:LYS:HB3	10	0.17
(1,444)	1:35:A:ASP:HB2	2:120:B:PHE:HE1	1	0.17
(1,437)	1:34:A:ARG:HA	1:44:A:CYS:HB3	5	0.17
(1,349)	1:12:A:PHE:HD2	2:127:B:MET:HB2	8	0.17
(1,346)	1:12:A:PHE:HB2	2:132:B:TYR:HD1	5	0.17
(1,333)	1:9:A:PRO:HG2	1:18:A:LEU:HG	10	0.17
(1,979)	1:40:A:GLY:HA2	1:42:A:CYS:H	4	0.16
(1,979)	1:40:A:GLY:HA3	1:42:A:CYS:H	4	0.16
(1,959)	1:45:A:ARG:HG2	1:47:A:ASN:H	6	0.16
(1,959)	1:45:A:ARG:HG3	1:47:A:ASN:H	6	0.16
(1,898)	2:108:B:ALA:H	2:109:B:GLN:H	6	0.16
(1,894)	2:157:B:SER:H	2:159:B:LYS:H	1	0.16
(1,833)	2:94:B:ARG:H	2:94:B:ARG:HD2	5	0.16
(1,833)	2:94:B:ARG:H	2:94:B:ARG:HD3	5	0.16
(1,691)	2:138:B:HIS:HD1	2:139:B:ILE:HG12	1	0.16
(1,691)	2:138:B:HIS:HD1	2:139:B:ILE:HG13	1	0.16
(1,655)	2:126:B:ILE:HG21	2:132:B:TYR:HB3	4	0.16
(1,655)	2:126:B:ILE:HG22	2:132:B:TYR:HB3	4	0.16
(1,655)	2:126:B:ILE:HG23	2:132:B:TYR:HB3	4	0.16
(1,546)	2:100:B:LEU:HG	2:104:B:LYS:HG3	4	0.16
(1,435)	1:33:A:ARG:HG2	1:34:A:ARG:H	2	0.16
(1,427)	1:31:A:ARG:HA	1:49:A:TYR:HD2	4	0.16
(1,423)	1:30:A:GLN:HB3	1:50:A:CYS:HB2	9	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,414)	1:28:A:ILE:HG21	1:39:A:PRO:HG3	4	0.16
(1,414)	1:28:A:ILE:HG22	1:39:A:PRO:HG3	4	0.16
(1,414)	1:28:A:ILE:HG23	1:39:A:PRO:HG3	4	0.16
(1,347)	1:12:A:PHE:HB2	2:137:B:GLN:HB3	7	0.16
(1,337)	1:10:A:THR:HG21	1:11:A:SER:HB3	4	0.16
(1,337)	1:10:A:THR:HG22	1:11:A:SER:HB3	4	0.16
(1,337)	1:10:A:THR:HG23	1:11:A:SER:HB3	4	0.16
(1,332)	1:9:A:PRO:HG2	1:14:A:GLU:HB3	6	0.16
(1,318)	1:3:A:SER:HB3	1:45:A:ARG:HG2	8	0.16
(1,254)	1:49:A:TYR:H	1:49:A:TYR:HD2	9	0.16
(1,96)	2:125:B:TYR:H	2:126:B:ILE:HG12	5	0.16
(1,96)	2:125:B:TYR:H	2:126:B:ILE:HG13	5	0.16
(1,900)	2:169:B:TYR:H	2:170:B:ARG:HG2	9	0.15
(1,900)	2:169:B:TYR:H	2:170:B:ARG:HG3	9	0.15
(1,881)	2:159:B:LYS:H	2:160:B:GLU:HB2	4	0.15
(1,881)	2:159:B:LYS:H	2:160:B:GLU:HB3	4	0.15
(1,881)	2:159:B:LYS:H	2:160:B:GLU:HB2	6	0.15
(1,881)	2:159:B:LYS:H	2:160:B:GLU:HB3	6	0.15
(1,831)	2:94:B:ARG:H	2:94:B:ARG:HG2	10	0.15
(1,831)	2:94:B:ARG:H	2:94:B:ARG:HG3	10	0.15
(1,755)	2:160:B:GLU:HB3	2:163:B:LYS:HD3	7	0.15
(1,577)	2:104:B:LYS:HD3	2:109:B:GLN:HA	1	0.15
(1,403)	1:25:A:CYS:HA	1:41:A:ALA:HB3	2	0.15
(1,346)	1:12:A:PHE:HB2	2:132:B:TYR:HD1	8	0.15
(1,979)	1:40:A:GLY:HA2	1:42:A:CYS:H	2	0.14
(1,979)	1:40:A:GLY:HA3	1:42:A:CYS:H	2	0.14
(1,979)	1:40:A:GLY:HA2	1:42:A:CYS:H	10	0.14
(1,979)	1:40:A:GLY:HA3	1:42:A:CYS:H	10	0.14
(1,959)	1:45:A:ARG:HG2	1:47:A:ASN:H	5	0.14
(1,959)	1:45:A:ARG:HG3	1:47:A:ASN:H	5	0.14
(1,877)	2:164:B:ILE:H	2:166:B:THR:H	2	0.14
(1,862)	2:166:B:THR:HG1	2:167:B:MET:H	10	0.14
(1,663)	2:128:B:THR:HA	2:130:B:ARG:HG3	2	0.14
(1,663)	2:128:B:THR:HA	2:130:B:ARG:HG3	6	0.14
(1,577)	2:104:B:LYS:HD3	2:109:B:GLN:HA	4	0.14
(1,526)	2:98:B:LEU:HD13	2:146:B:LEU:HD11	6	0.14
(1,526)	2:98:B:LEU:HD13	2:146:B:LEU:HD12	6	0.14
(1,526)	2:98:B:LEU:HD13	2:146:B:LEU:HD13	6	0.14
(1,384)	1:19:A:LEU:HD21	1:21:A:ALA:HB2	7	0.14
(1,384)	1:19:A:LEU:HD22	1:21:A:ALA:HB2	7	0.14
(1,384)	1:19:A:LEU:HD23	1:21:A:ALA:HB2	7	0.14
(1,351)	1:13:A:ALA:HB2	2:127:B:MET:HE2	9	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,335)	1:9:A:PRO:HD3	1:18:A:LEU:HD11	9	0.14
(1,335)	1:9:A:PRO:HD3	1:18:A:LEU:HD12	9	0.14
(1,335)	1:9:A:PRO:HD3	1:18:A:LEU:HD13	9	0.14
(1,302)	1:1:A:SER:HB3	1:25:A:CYS:H	3	0.14
(1,254)	1:49:A:TYR:H	1:49:A:TYR:HD2	8	0.14
(1,723)	2:147:B:LEU:HD12	2:150:B:LEU:HD11	7	0.13
(1,723)	2:147:B:LEU:HD12	2:150:B:LEU:HD12	7	0.13
(1,723)	2:147:B:LEU:HD12	2:150:B:LEU:HD13	7	0.13
(1,677)	2:133:B:ASP:HB2	2:139:B:ILE:HG21	10	0.13
(1,677)	2:133:B:ASP:HB2	2:139:B:ILE:HG22	10	0.13
(1,677)	2:133:B:ASP:HB2	2:139:B:ILE:HG23	10	0.13
(1,676)	2:133:B:ASP:HB2	2:139:B:ILE:HB	4	0.13
(1,673)	2:132:B:TYR:HB3	2:140:B:VAL:HG21	4	0.13
(1,673)	2:132:B:TYR:HB3	2:140:B:VAL:HG22	4	0.13
(1,673)	2:132:B:TYR:HB3	2:140:B:VAL:HG23	4	0.13
(1,589)	2:110:B:LYS:HB2	2:111:B:ASP:H	8	0.13
(1,337)	1:10:A:THR:HG21	1:11:A:SER:HB3	7	0.13
(1,337)	1:10:A:THR:HG22	1:11:A:SER:HB3	7	0.13
(1,337)	1:10:A:THR:HG23	1:11:A:SER:HB3	7	0.13
(1,894)	2:157:B:SER:H	2:159:B:LYS:H	5	0.12
(1,894)	2:157:B:SER:H	2:159:B:LYS:H	9	0.12
(1,745)	2:156:B:PHE:HD1	2:164:B:ILE:HD11	5	0.12
(1,745)	2:156:B:PHE:HD1	2:164:B:ILE:HD12	5	0.12
(1,745)	2:156:B:PHE:HD1	2:164:B:ILE:HD13	5	0.12
(1,614)	2:116:B:LYS:HE2	2:120:B:PHE:HB2	10	0.12
(1,440)	1:34:A:ARG:HG3	1:35:A:ASP:H	8	0.12
(1,435)	1:33:A:ARG:HG2	1:34:A:ARG:H	6	0.12
(1,360)	1:15:A:TYR:HB2	2:138:B:HIS:HA	9	0.12
(1,351)	1:13:A:ALA:HB2	2:127:B:MET:HE2	7	0.12
(1,312)	1:2:A:GLY:HA3	1:20:A:SER:HB2	5	0.12
(1,254)	1:49:A:TYR:H	1:49:A:TYR:HD2	1	0.12
(1,954)	1:42:A:CYS:HB2	1:43:A:ILE:H	7	0.11
(1,954)	1:42:A:CYS:HB3	1:43:A:ILE:H	7	0.11
(1,894)	2:157:B:SER:H	2:159:B:LYS:H	6	0.11
(1,874)	2:129:B:LYS:HG2	2:130:B:ARG:H	8	0.11
(1,874)	2:129:B:LYS:HG3	2:130:B:ARG:H	8	0.11
(1,679)	2:133:B:ASP:HB3	2:137:B:GLN:HA	3	0.11
(1,562)	2:102:B:LEU:HD11	2:147:B:LEU:HA	2	0.11
(1,562)	2:102:B:LEU:HD12	2:147:B:LEU:HA	2	0.11
(1,562)	2:102:B:LEU:HD13	2:147:B:LEU:HA	2	0.11
(1,546)	2:100:B:LEU:HG	2:104:B:LYS:HG3	10	0.11
(1,463)	1:43:A:ILE:HG12	1:44:A:CYS:H	10	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,435)	1:33:A:ARG:HG2	1:34:A:ARG:H	7	0.11
(1,370)	1:17:A:ASN:HB3	1:43:A:ILE:HG21	9	0.11
(1,370)	1:17:A:ASN:HB3	1:43:A:ILE:HG22	9	0.11
(1,370)	1:17:A:ASN:HB3	1:43:A:ILE:HG23	9	0.11
(1,333)	1:9:A:PRO:HG2	1:18:A:LEU:HG	1	0.11
(1,926)	1:24:A:VAL:H	1:24:A:VAL:HB	3	0.1
(1,898)	2:108:B:ALA:H	2:109:B:GLN:H	5	0.1
(1,93)	1:22:A:GLY:HA2	2:117:B:GLU:H	6	0.1
(1,93)	1:22:A:GLY:HA3	2:117:B:GLU:H	6	0.1
(1,93)	1:22:A:GLY:HA2	2:117:B:GLU:H	7	0.1
(1,93)	1:22:A:GLY:HA3	2:117:B:GLU:H	7	0.1

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

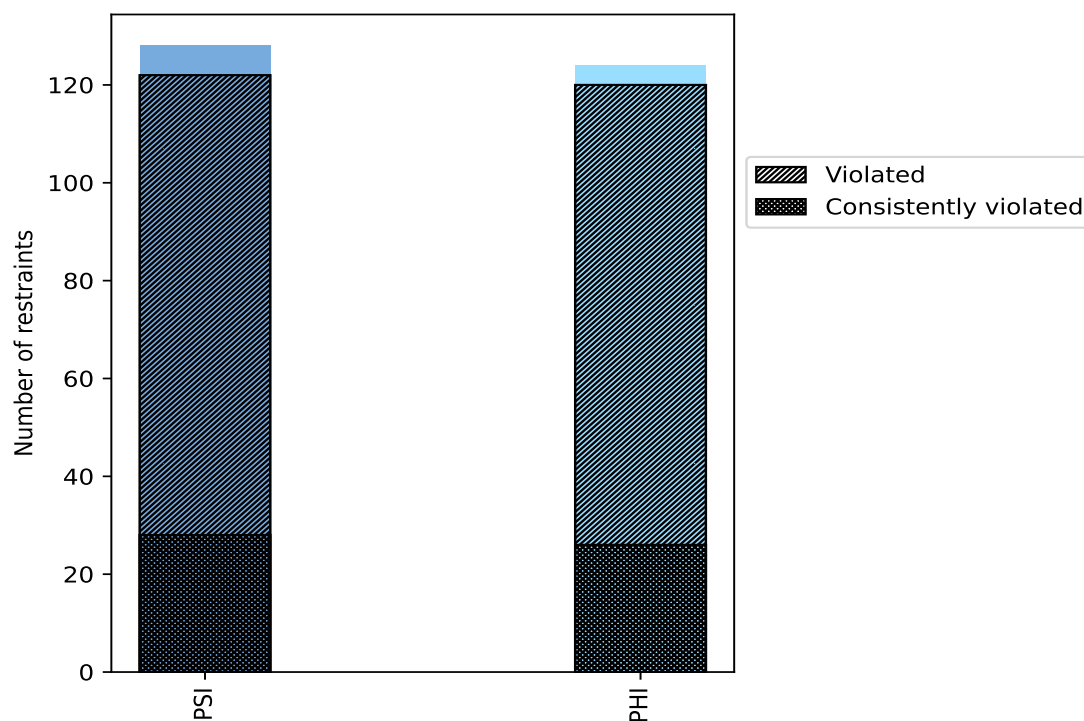
10.1 Summary of dihedral-angle violations [i](#)

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	128	50.8	122	95.3	48.4	28	21.9	11.1
PHI	124	49.2	120	96.8	47.6	26	21.0	10.3
Total	252	100.0	242	96.0	96.0	54	21.4	21.4

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](#)



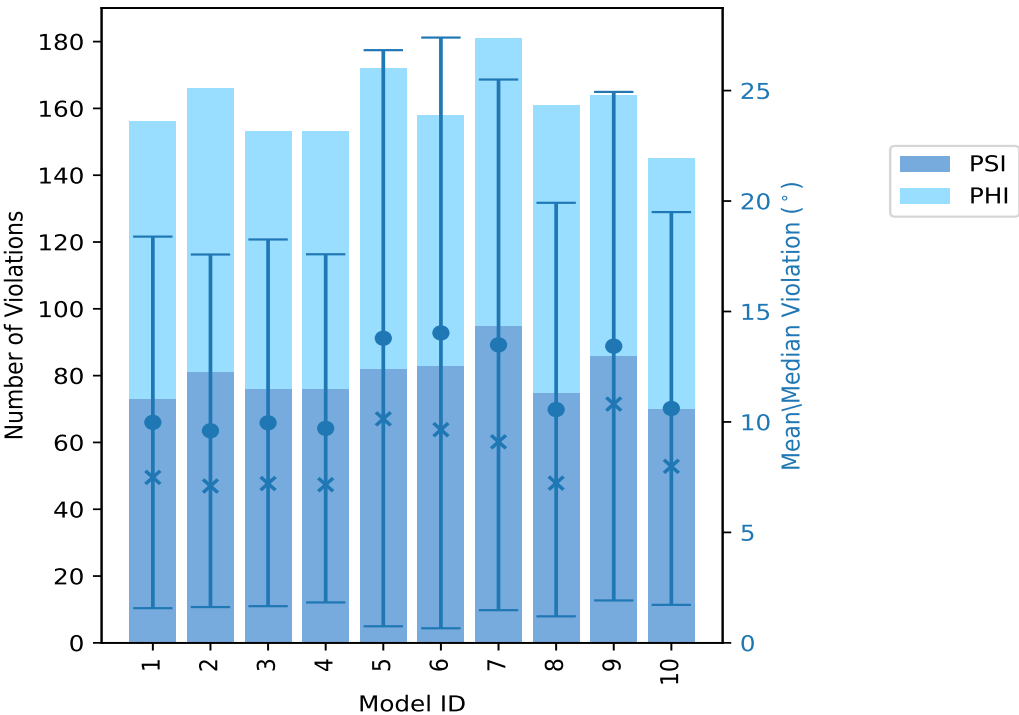
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

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	PHI	Total				
1	73	83	156	9.98	43.71	8.41	7.49
2	81	85	166	9.6	47.83	7.98	7.1
3	76	77	153	9.96	49.36	8.3	7.21
4	76	77	153	9.71	40.28	7.88	7.16
5	82	90	172	13.79	79.94	13.04	10.14
6	83	75	158	14.03	74.47	13.37	9.65
7	95	86	181	13.49	57.07	12.01	9.1
8	75	86	161	10.56	47.63	9.36	7.23
9	86	78	164	13.43	59.23	11.51	10.81
10	70	75	145	10.61	44.49	8.89	7.99

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

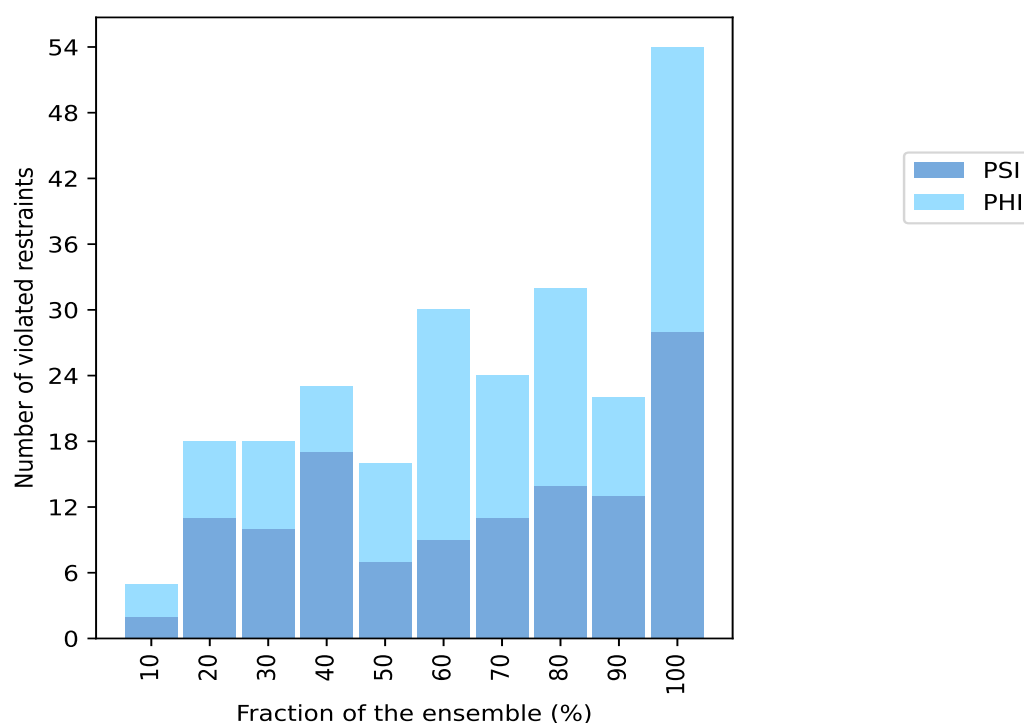
10.3 Dihedral-angle violation statistics for the ensemble [i](#)

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	PHI	Total	Count ¹	%
2	3	5	1	10.0
11	7	18	2	20.0
10	8	18	3	30.0
17	6	23	4	40.0
7	9	16	5	50.0
9	21	30	6	60.0
11	13	24	7	70.0
14	18	32	8	80.0
13	9	22	9	90.0
28	26	54	10	100.0

¹ Number of models with violations

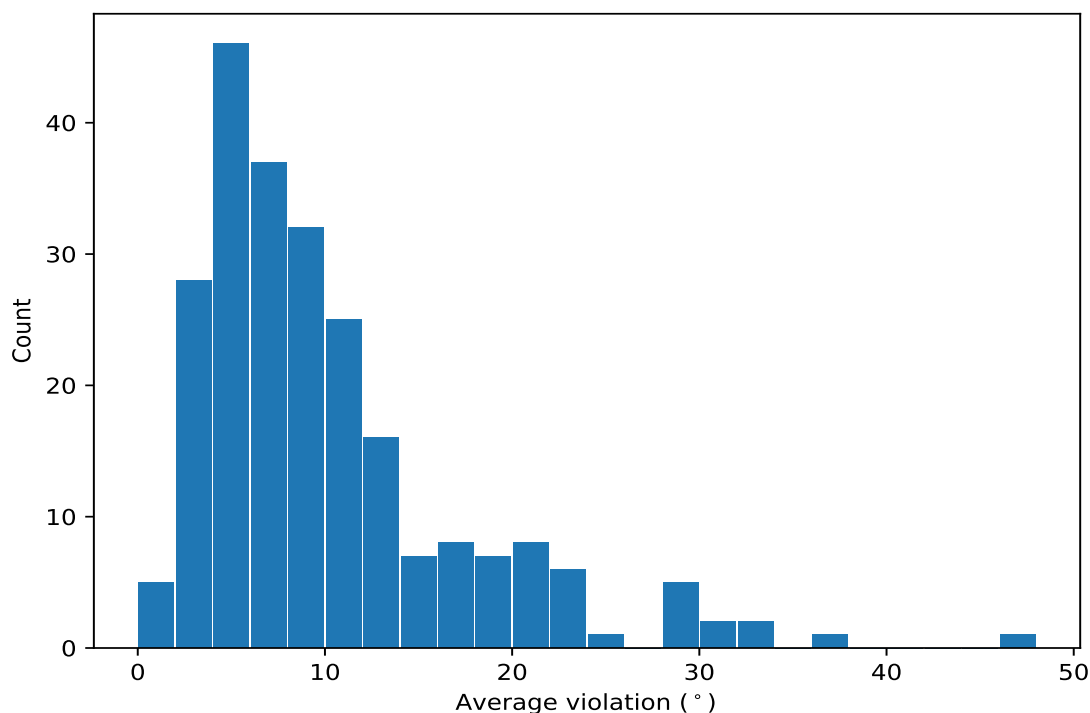
10.3.1 Bar graph : Dihedral-angle Violation statistics for the ensemble [i](#)



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
(1,122)	2:108:B:ALA:N	2:108:B:ALA:CA	2:108:B:ALA:C	2:109:B:GLN:N	10	46.25	6.43	47.3
(1,161)	2:127:B:MET:C	2:128:B:THR:N	2:128:B:THR:CA	2:128:B:THR:C	10	37.5	5.09	35.36
(1,14)	1:10:A:THR:C	1:11:A:SER:N	1:11:A:SER:CA	1:11:A:SER:C	10	33.34	18.61	35.51
(1,205)	2:149:B:ASP:C	2:150:B:LEU:N	2:150:B:LEU:CA	2:150:B:LEU:C	10	31.24	7.89	34.17
(1,3)	1:3:A:SER:N	1:3:A:SER:CA	1:3:A:SER:C	1:4:A:GLY:N	10	30.01	13.28	32.81
(1,204)	2:149:B:ASP:N	2:149:B:ASP:CA	2:149:B:ASP:C	2:150:B:LEU:N	10	29.31	10.75	29.5
(1,197)	2:145:B:ASP:C	2:146:B:LEU:N	2:146:B:LEU:CA	2:146:B:LEU:C	10	28.74	4.85	27.85
(1,164)	2:129:B:LYS:N	2:129:B:LYS:CA	2:129:B:LYS:C	2:130:B:ARG:N	10	28.66	4.54	27.58
(1,97)	2:95:B:PRO:N	2:95:B:PRO:CA	2:95:B:PRO:C	2:96:B:LYS:N	10	24.95	5.2	23.36
(1,67)	1:38:A:CYS:N	1:38:A:CYS:CA	1:38:A:CYS:C	1:39:A:PRO:N	10	23.94	8.46	22.02
(1,165)	2:129:B:LYS:C	2:130:B:ARG:N	2:130:B:ARG:CA	2:130:B:ARG:C	10	22.94	2.33	21.86
(1,4)	1:4:A:GLY:C	1:5:A:ALA:N	1:5:A:ALA:CA	1:5:A:ALA:C	10	22.27	3.59	21.79
(1,240)	2:167:B:MET:C	2:168:B:ILE:N	2:168:B:ILE:CA	2:168:B:ILE:C	10	21.59	7.41	24.46

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,198)	2:146:B:LEU:N	2:146:B:LEU:CA	2:146:B:LEU:C	2:147:B:LEU:N	10	21.37	5.94	19.94
(1,125)	2:109:B:GLN:C	2:110:B:LYS:N	2:110:B:LYS:CA	2:110:B:LYS:C	10	21.27	19.96	15.52
(1,124)	2:109:B:GLN:N	2:109:B:GLN:CA	2:109:B:GLN:C	2:110:B:LYS:N	10	20.59	20.5	15.13
(1,100)	2:97:B:PRO:N	2:97:B:PRO:CA	2:97:B:PRO:C	2:98:B:LEU:N	10	20.48	2.76	20.95
(1,76)	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	1:44:A:CYS:N	10	18.56	2.68	18.61
(1,123)	2:108:B:ALA:C	2:109:B:GLN:N	2:109:B:GLN:CA	2:109:B:GLN:C	10	18.21	4.36	18.81
(1,163)	2:128:B:THR:C	2:129:B:LYS:N	2:129:B:LYS:CA	2:129:B:LYS:C	10	18.15	3.65	17.67
(1,160)	2:127:B:MET:N	2:127:B:MET:CA	2:127:B:MET:C	2:128:B:THR:N	10	17.66	4.29	18.36
(1,162)	2:128:B:THR:N	2:128:B:THR:CA	2:128:B:THR:C	2:129:B:LYS:N	10	17.17	4.72	16.58
(1,159)	2:126:B:ILE:C	2:127:B:MET:N	2:127:B:MET:CA	2:127:B:MET:C	10	16.84	2.27	16.46
(1,40)	1:23:A:GLY:C	1:24:A:VAL:N	1:24:A:VAL:CA	1:24:A:VAL:C	10	16.68	7.4	18.23
(1,191)	2:142:B:CYS:C	2:143:B:SER:N	2:143:B:SER:CA	2:143:B:SER:C	10	15.4	7.29	15.46
(1,69)	1:39:A:PRO:C	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	10	15.11	8.34	11.16
(1,44)	1:26:A:PRO:C	1:27:A:LYS:N	1:27:A:LYS:CA	1:27:A:LYS:C	10	14.2	5.64	13.54
(1,1)	1:1:A:SER:N	1:1:A:SER:CA	1:1:A:SER:C	1:2:A:GLY:N	10	12.85	10.35	9.75
(1,127)	2:110:B:LYS:C	2:111:B:ASP:N	2:111:B:ASP:CA	2:111:B:ASP:C	10	12.83	8.86	11.92
(1,208)	2:151:B:PHE:N	2:151:B:PHE:CA	2:151:B:PHE:C	2:152:B:GLY:N	10	12.67	4.1	13.76
(1,189)	2:141:B:TYR:C	2:142:B:CYS:N	2:142:B:CYS:CA	2:142:B:CYS:C	10	12.65	8.58	13.62
(1,77)	1:43:A:ILE:C	1:44:A:CYS:N	1:44:A:CYS:CA	1:44:A:CYS:C	10	12.55	4.02	14.45
(1,120)	2:107:B:GLY:N	2:107:B:GLY:CA	2:107:B:GLY:C	2:108:B:ALA:N	10	12.29	4.36	12.02
(1,181)	2:137:B:GLN:C	2:138:B:HIS:N	2:138:B:HIS:CA	2:138:B:HIS:C	10	11.96	6.15	11.42
(1,11)	1:8:A:ALA:N	1:8:A:ALA:CA	1:8:A:ALA:C	1:9:A:PRO:N	10	11.54	2.18	11.19
(1,25)	1:16:A:TRP:N	1:16:A:TRP:CA	1:16:A:TRP:C	1:17:A:ASN:N	10	11.46	5.34	10.6
(1,227)	2:161:B:HIS:N	2:161:B:HIS:CA	2:161:B:HIS:C	2:162:B:ARG:N	10	10.82	4.01	10.98
(1,37)	1:22:A:GLY:N	1:22:A:GLY:CA	1:22:A:GLY:C	1:23:A:GLY:N	10	10.67	6.6	12.04
(1,216)	2:155:B:SER:C	2:156:B:PHE:N	2:156:B:PHE:CA	2:156:B:PHE:C	10	10.31	5.52	9.32
(1,186)	2:140:B:VAL:N	2:140:B:VAL:CA	2:140:B:VAL:C	2:141:B:TYR:N	10	9.88	3.38	8.57
(1,21)	1:14:A:GLU:N	1:14:A:GLU:CA	1:14:A:GLU:C	1:15:A:TYR:N	10	9.82	3.87	9.21
(1,46)	1:27:A:LYS:C	1:28:A:ILE:N	1:28:A:ILE:CA	1:28:A:ILE:C	10	8.73	5.69	6.96
(1,115)	2:104:B:LYS:C	2:105:B:SER:N	2:105:B:SER:CA	2:105:B:SER:C	10	8.53	4.21	7.92
(1,223)	2:159:B:LYS:N	2:159:B:LYS:CA	2:159:B:LYS:C	2:160:B:GLU:N	10	8.42	2.13	8.32
(1,203)	2:148:B:GLY:C	2:149:B:ASP:N	2:149:B:ASP:CA	2:149:B:ASP:C	10	7.97	3.56	6.96
(1,174)	2:134:B:GLU:N	2:134:B:GLU:CA	2:134:B:GLU:C	2:135:B:LYS:N	10	7.64	6.73	4.22
(1,109)	2:101:B:LYS:C	2:102:B:LEU:N	2:102:B:LEU:CA	2:102:B:LEU:C	10	7.57	1.68	7.73
(1,209)	2:151:B:PHE:C	2:152:B:GLY:N	2:152:B:GLY:CA	2:152:B:GLY:C	10	7.53	3.47	7.32
(1,196)	2:145:B:ASP:N	2:145:B:ASP:CA	2:145:B:ASP:C	2:146:B:LEU:N	10	7.04	2.47	6.52
(1,23)	1:15:A:TYR:N	1:15:A:TYR:CA	1:15:A:TYR:C	1:16:A:TRP:N	10	6.29	7.28	3.4
(1,170)	2:132:B:TYR:N	2:132:B:TYR:CA	2:132:B:TYR:C	2:133:B:ASP:N	10	6.05	2.94	5.98
(1,148)	2:121:B:TYR:N	2:121:B:TYR:CA	2:121:B:TYR:C	2:122:B:LEU:N	10	6.04	2.59	6.96
(1,226)	2:160:B:GLU:C	2:161:B:HIS:N	2:161:B:HIS:CA	2:161:B:HIS:C	10	4.35	2.35	3.26
(1,106)	2:100:B:LEU:N	2:100:B:LEU:CA	2:100:B:LEU:C	2:101:B:LYS:N	10	4.14	0.94	4.36
(1,239)	2:167:B:MET:N	2:167:B:MET:CA	2:167:B:MET:C	2:168:B:ILE:N	9	21.29	4.99	22.64
(1,247)	2:171:B:ASN:N	2:171:B:ASN:CA	2:171:B:ASN:C	2:172:B:LEU:N	9	19.48	10.63	18.84
(1,190)	2:142:B:CYS:N	2:142:B:CYS:CA	2:142:B:CYS:C	2:143:B:SER:N	9	17.84	12.63	16.98
(1,61)	1:35:A:ASP:N	1:35:A:ASP:CA	1:35:A:ASP:C	1:36:A:SER:N	9	16.68	12.89	11.41
(1,187)	2:140:B:VAL:C	2:141:B:TYR:N	2:141:B:TYR:CA	2:141:B:TYR:C	9	16.47	5.16	16.0
(1,177)	2:135:B:LYS:C	2:136:B:GLN:N	2:136:B:GLN:CA	2:136:B:GLN:C	9	14.24	6.72	13.76
(1,126)	2:110:B:LYS:N	2:110:B:LYS:CA	2:110:B:LYS:C	2:111:B:ASP:N	9	13.9	8.0	10.97
(1,39)	1:23:A:GLY:N	1:23:A:GLY:CA	1:23:A:GLY:C	1:24:A:VAL:N	9	10.38	5.92	8.6
(1,89)	1:49:A:TYR:C	1:50:A:CYS:N	1:50:A:CYS:CA	1:50:A:CYS:C	9	9.79	4.69	8.99
(1,218)	2:156:B:PHE:C	2:157:B:SER:N	2:157:B:SER:CA	2:157:B:SER:C	9	9.76	7.91	7.4

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,16)	1:11:A:SER:C	1:12:A:PHE:N	1:12:A:PHE:CA	1:12:A:PHE:C	9	9.49	4.77	7.76
(1,55)	1:32:A:CYS:N	1:32:A:CYS:CA	1:32:A:CYS:C	1:33:A:ARG:N	9	8.25	11.31	3.04
(1,183)	2:138:B:HIS:C	2:139:B:ILE:N	2:139:B:ILE:CA	2:139:B:ILE:C	9	8.23	3.56	6.8
(1,32)	1:19:A:LEU:C	1:20:A:SER:N	1:20:A:SER:CA	1:20:A:SER:C	9	8.13	5.62	5.83
(1,80)	1:45:A:ARG:N	1:45:A:ARG:CA	1:45:A:ARG:C	1:46:A:GLY:N	9	7.56	3.57	7.28
(1,139)	2:116:B:LYS:C	2:117:B:GLU:N	2:117:B:GLU:CA	2:117:B:GLU:C	9	6.77	3.58	5.01
(1,237)	2:166:B:THR:N	2:166:B:THR:CA	2:166:B:THR:C	2:167:B:MET:N	9	6.68	3.07	6.6
(1,95)	2:93:B:VAL:C	2:94:B:ARG:N	2:94:B:ARG:CA	2:94:B:ARG:C	9	5.72	3.08	5.7
(1,166)	2:130:B:ARG:N	2:130:B:ARG:CA	2:130:B:ARG:C	2:131:B:LEU:N	9	5.37	3.65	4.86
(1,152)	2:123:B:GLY:N	2:123:B:GLY:CA	2:123:B:GLY:C	2:124:B:GLN:N	9	5.27	2.54	4.21
(1,47)	1:28:A:ILE:N	1:28:A:ILE:CA	1:28:A:ILE:C	1:29:A:LEU:N	9	4.98	1.56	5.6
(1,200)	2:147:B:LEU:N	2:147:B:LEU:CA	2:147:B:LEU:C	2:148:B:GLY:N	9	4.93	2.24	4.97
(1,195)	2:144:B:ASN:C	2:145:B:ASP:N	2:145:B:ASP:CA	2:145:B:ASP:C	8	33.01	22.18	23.94
(1,194)	2:144:B:ASN:N	2:144:B:ASN:CA	2:144:B:ASN:C	2:145:B:ASP:N	8	28.58	22.78	21.14
(1,13)	1:10:A:THR:N	1:10:A:THR:CA	1:10:A:THR:C	1:11:A:SER:N	8	23.17	14.71	22.6
(1,91)	1:50:A:CYS:C	1:51:A:GLY:N	1:51:A:GLY:CA	1:51:A:GLY:C	8	23.11	15.1	24.53
(1,130)	2:112:B:THR:N	2:112:B:THR:CA	2:112:B:THR:C	2:113:B:TYR:N	8	19.99	16.55	12.73
(1,75)	1:42:A:CYS:C	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	8	18.48	10.03	23.98
(1,82)	1:46:A:GLY:N	1:46:A:GLY:CA	1:46:A:GLY:C	1:47:A:ASN:N	8	15.2	8.07	12.46
(1,42)	1:24:A:VAL:C	1:25:A:CYS:N	1:25:A:CYS:CA	1:25:A:CYS:C	8	13.85	7.69	13.2
(1,90)	1:50:A:CYS:N	1:50:A:CYS:CA	1:50:A:CYS:C	1:51:A:GLY:N	8	13.62	9.86	11.59
(1,245)	2:170:B:ARG:N	2:170:B:ARG:CA	2:170:B:ARG:C	2:171:B:ASN:N	8	13.5	5.47	15.64
(1,169)	2:131:B:LEU:C	2:132:B:TYR:N	2:132:B:TYR:CA	2:132:B:TYR:C	8	12.53	4.84	11.94
(1,249)	2:172:B:LEU:N	2:172:B:LEU:CA	2:172:B:LEU:C	2:173:B:VAL:N	8	11.6	9.88	8.51
(1,119)	2:106:B:VAL:C	2:107:B:GLY:N	2:107:B:GLY:CA	2:107:B:GLY:C	8	10.65	5.53	10.98
(1,138)	2:116:B:LYS:N	2:116:B:LYS:CA	2:116:B:LYS:C	2:117:B:GLU:N	8	10.36	3.81	11.8
(1,246)	2:170:B:ARG:C	2:171:B:ASN:N	2:171:B:ASN:CA	2:171:B:ASN:C	8	9.57	4.93	11.37
(1,84)	1:47:A:ASN:N	1:47:A:ASN:CA	1:47:A:ASN:C	1:48:A:GLY:N	8	9.4	3.8	8.5
(1,6)	1:5:A:ALA:C	1:6:A:SER:N	1:6:A:SER:CA	1:6:A:SER:C	8	9.34	2.73	9.53
(1,54)	1:31:A:ARG:C	1:32:A:CYS:N	1:32:A:CYS:CA	1:32:A:CYS:C	8	9.09	6.92	7.43
(1,78)	1:44:A:CYS:N	1:44:A:CYS:CA	1:44:A:CYS:C	1:45:A:ARG:N	8	9.06	6.1	9.38
(1,57)	1:33:A:ARG:N	1:33:A:ARG:CA	1:33:A:ARG:C	1:34:A:ARG:N	8	8.18	5.82	6.59
(1,71)	1:40:A:GLY:C	1:41:A:ALA:N	1:41:A:ALA:CA	1:41:A:ALA:C	8	8.12	4.31	7.68
(1,118)	2:106:B:VAL:N	2:106:B:VAL:CA	2:106:B:VAL:C	2:107:B:GLY:N	8	7.62	3.22	8.3
(1,98)	2:95:B:PRO:C	2:96:B:LYS:N	2:96:B:LYS:CA	2:96:B:LYS:C	8	7.49	5.7	5.12
(1,251)	2:173:B:VAL:N	2:173:B:VAL:CA	2:173:B:VAL:C	2:174:B:VAL:N	8	6.63	3.16	6.22
(1,224)	2:159:B:LYS:C	2:160:B:GLU:N	2:160:B:GLU:CA	2:160:B:GLU:C	8	5.3	1.42	4.97
(1,24)	1:15:A:TYR:C	1:16:A:TRP:N	1:16:A:TRP:CA	1:16:A:TRP:C	8	4.9	1.96	5.3
(1,50)	1:29:A:LEU:C	1:30:A:GLN:N	1:30:A:GLN:CA	1:30:A:GLN:C	8	4.63	2.64	3.5
(1,151)	2:122:B:LEU:C	2:123:B:GLY:N	2:123:B:GLY:CA	2:123:B:GLY:C	8	4.23	2.64	3.2
(1,149)	2:121:B:TYR:C	2:122:B:LEU:N	2:122:B:LEU:CA	2:122:B:LEU:C	8	3.67	1.95	3.22
(1,147)	2:120:B:PHE:C	2:121:B:TYR:N	2:121:B:TYR:CA	2:121:B:TYR:C	8	3.64	1.75	3.55
(1,234)	2:164:B:ILE:C	2:165:B:TYR:N	2:165:B:TYR:CA	2:165:B:TYR:C	8	3.48	1.34	3.58
(1,150)	2:122:B:LEU:N	2:122:B:LEU:CA	2:122:B:LEU:C	2:123:B:GLY:N	8	3.23	1.31	2.86
(1,128)	2:111:B:ASP:N	2:111:B:ASP:CA	2:111:B:ASP:C	2:112:B:THR:N	7	22.4	15.71	14.65
(1,168)	2:131:B:LEU:N	2:131:B:LEU:CA	2:131:B:LEU:C	2:132:B:TYR:N	7	14.38	9.1	10.39
(1,58)	1:33:A:ARG:C	1:34:A:ARG:N	1:34:A:ARG:CA	1:34:A:ARG:C	7	13.16	6.83	10.49
(1,12)	1:9:A:PRO:C	1:10:A:THR:N	1:10:A:THR:CA	1:10:A:THR:C	7	12.55	9.34	10.27
(1,8)	1:6:A:SER:C	1:7:A:LYS:N	1:7:A:LYS:CA	1:7:A:LYS:C	7	11.92	5.98	12.71
(1,56)	1:32:A:CYS:C	1:33:A:ARG:N	1:33:A:ARG:CA	1:33:A:ARG:C	7	11.28	8.83	7.98
(1,172)	2:133:B:ASP:N	2:133:B:ASP:CA	2:133:B:ASP:C	2:134:B:GLU:N	7	11.18	7.42	11.38

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,230)	2:162:B:ARG:C	2:163:B:LYS:N	2:163:B:LYS:CA	2:163:B:LYS:C	7	11.18	9.4	8.75
(1,70)	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	1:41:A:ALA:N	7	10.93	10.44	7.76
(1,188)	2:141:B:TYR:N	2:141:B:TYR:CA	2:141:B:TYR:C	2:142:B:CYS:N	7	10.3	4.38	9.72
(1,175)	2:134:B:GLU:C	2:135:B:LYS:N	2:135:B:LYS:CA	2:135:B:LYS:C	7	9.54	7.1	8.99
(1,20)	1:13:A:ALA:C	1:14:A:GLU:N	1:14:A:GLU:CA	1:14:A:GLU:C	7	9.13	5.66	6.01
(1,135)	2:114:B:THR:C	2:115:B:MET:N	2:115:B:MET:CA	2:115:B:MET:C	7	8.62	5.16	7.05
(1,217)	2:156:B:PHE:N	2:156:B:PHE:CA	2:156:B:PHE:C	2:157:B:SER:N	7	8.18	4.83	7.25
(1,9)	1:7:A:LYS:N	1:7:A:LYS:CA	1:7:A:LYS:C	1:8:A:ALA:N	7	7.58	4.84	8.2
(1,64)	1:36:A:SER:C	1:37:A:ASP:N	1:37:A:ASP:CA	1:37:A:ASP:C	7	7.37	5.92	5.16
(1,15)	1:11:A:SER:N	1:11:A:SER:CA	1:11:A:SER:C	1:12:A:PHE:N	7	6.22	4.43	6.03
(1,167)	2:130:B:ARG:C	2:131:B:LEU:N	2:131:B:LEU:CA	2:131:B:LEU:C	7	5.95	2.21	5.6
(1,29)	1:18:A:LEU:N	1:18:A:LEU:CA	1:18:A:LEU:C	1:19:A:LEU:N	7	5.9	1.87	5.94
(1,63)	1:36:A:SER:N	1:36:A:SER:CA	1:36:A:SER:C	1:37:A:ASP:N	7	5.55	3.36	4.46
(1,178)	2:136:B:GLN:N	2:136:B:GLN:CA	2:136:B:GLN:C	2:137:B:GLN:N	7	5.54	3.1	5.45
(1,34)	1:20:A:SER:C	1:21:A:ALA:N	1:21:A:ALA:CA	1:21:A:ALA:C	7	4.97	3.33	3.84
(1,199)	2:146:B:LEU:C	2:147:B:LEU:N	2:147:B:LEU:CA	2:147:B:LEU:C	7	4.84	3.25	3.41
(1,157)	2:125:B:TYR:C	2:126:B:ILE:N	2:126:B:ILE:CA	2:126:B:ILE:C	7	2.43	1.77	1.94
(1,129)	2:111:B:ASP:C	2:112:B:THR:N	2:112:B:THR:CA	2:112:B:THR:C	6	28.62	23.55	26.27
(1,74)	1:42:A:CYS:N	1:42:A:CYS:CA	1:42:A:CYS:C	1:43:A:ILE:N	6	21.6	8.22	23.76
(1,2)	1:2:A:GLY:C	1:3:A:SER:N	1:3:A:SER:CA	1:3:A:SER:C	6	16.75	11.97	15.7
(1,65)	1:37:A:ASP:N	1:37:A:ASP:CA	1:37:A:ASP:C	1:38:A:CYS:N	6	15.15	7.35	16.72
(1,62)	1:35:A:ASP:C	1:36:A:SER:N	1:36:A:SER:CA	1:36:A:SER:C	6	13.28	6.41	12.14
(1,250)	2:172:B:LEU:C	2:173:B:VAL:N	2:173:B:VAL:CA	2:173:B:VAL:C	6	12.98	10.33	8.87
(1,131)	2:112:B:THR:C	2:113:B:TYR:N	2:113:B:TYR:CA	2:113:B:TYR:C	6	11.73	10.47	5.83
(1,83)	1:46:A:GLY:C	1:47:A:ASN:N	1:47:A:ASN:CA	1:47:A:ASN:C	6	9.84	3.59	9.59
(1,7)	1:6:A:SER:N	1:6:A:SER:CA	1:6:A:SER:C	1:7:A:LYS:N	6	9.33	3.45	8.56
(1,244)	2:169:B:TYR:C	2:170:B:ARG:N	2:170:B:ARG:CA	2:170:B:ARG:C	6	8.5	4.24	6.44
(1,219)	2:157:B:SER:N	2:157:B:SER:CA	2:157:B:SER:C	2:158:B:VAL:N	6	8.22	4.71	8.62
(1,248)	2:171:B:ASN:C	2:172:B:LEU:N	2:172:B:LEU:CA	2:172:B:LEU:C	6	8.14	6.38	6.29
(1,81)	1:45:A:ARG:C	1:46:A:GLY:N	1:46:A:GLY:CA	1:46:A:GLY:C	6	7.93	2.98	7.78
(1,31)	1:19:A:LEU:N	1:19:A:LEU:CA	1:19:A:LEU:C	1:20:A:SER:N	6	7.85	2.27	7.87
(1,185)	2:139:B:ILE:C	2:140:B:VAL:N	2:140:B:VAL:CA	2:140:B:VAL:C	6	7.38	4.99	6.66
(1,214)	2:154:B:PRO:C	2:155:B:SER:N	2:155:B:SER:CA	2:155:B:SER:C	6	7.25	7.22	4.79
(1,132)	2:113:B:TYR:N	2:113:B:TYR:CA	2:113:B:TYR:C	2:114:B:THR:N	6	6.85	4.74	5.86
(1,173)	2:133:B:ASP:C	2:134:B:GLU:N	2:134:B:GLU:CA	2:134:B:GLU:C	6	6.69	2.25	5.75
(1,5)	1:5:A:ALA:N	1:5:A:ALA:CA	1:5:A:ALA:C	1:6:A:SER:N	6	5.83	3.64	4.46
(1,66)	1:37:A:ASP:C	1:38:A:CYS:N	1:38:A:CYS:CA	1:38:A:CYS:C	6	5.58	3.05	5.11
(1,38)	1:22:A:GLY:C	1:23:A:GLY:N	1:23:A:GLY:CA	1:23:A:GLY:C	6	5.52	3.92	5.12
(1,22)	1:14:A:GLU:C	1:15:A:TYR:N	1:15:A:TYR:CA	1:15:A:TYR:C	6	5.23	3.77	3.2
(1,79)	1:44:A:CYS:C	1:45:A:ARG:N	1:45:A:ARG:CA	1:45:A:ARG:C	6	4.98	2.68	5.6
(1,193)	2:143:B:SER:C	2:144:B:ASN:N	2:144:B:ASN:CA	2:144:B:ASN:C	6	4.67	2.26	4.5
(1,18)	1:12:A:PHE:C	1:13:A:ALA:N	1:13:A:ALA:CA	1:13:A:ALA:C	6	4.41	2.43	3.44
(1,86)	1:48:A:GLY:N	1:48:A:GLY:CA	1:48:A:GLY:C	1:49:A:TYR:N	6	4.4	2.41	4.05
(1,103)	2:98:B:LEU:C	2:99:B:LEU:N	2:99:B:LEU:CA	2:99:B:LEU:C	6	3.87	2.88	2.82
(1,105)	2:99:B:LEU:C	2:100:B:LEU:N	2:100:B:LEU:CA	2:100:B:LEU:C	6	3.36	0.93	3.36
(1,110)	2:102:B:LEU:N	2:102:B:LEU:CA	2:102:B:LEU:C	2:103:B:LEU:N	6	2.22	1.47	1.65
(1,111)	2:102:B:LEU:C	2:103:B:LEU:N	2:103:B:LEU:CA	2:103:B:LEU:C	6	1.98	0.83	1.5
(1,53)	1:31:A:ARG:N	1:31:A:ARG:CA	1:31:A:ARG:C	1:32:A:CYS:N	5	11.79	6.98	10.03
(1,176)	2:135:B:LYS:N	2:135:B:LYS:CA	2:135:B:LYS:C	2:136:B:GLN:N	5	11.76	6.82	14.02
(1,72)	1:41:A:ALA:N	1:41:A:ALA:CA	1:41:A:ALA:C	1:42:A:CYS:N	5	10.76	4.58	8.55
(1,33)	1:20:A:SER:N	1:20:A:SER:CA	1:20:A:SER:C	1:21:A:ALA:N	5	10.61	7.11	8.28

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,26)	1:16:A:TRP:C	1:17:A:ASN:N	1:17:A:ASN:CA	1:17:A:ASN:C	5	9.38	7.04	6.74
(1,10)	1:7:A:LYS:C	1:8:A:ALA:N	1:8:A:ALA:CA	1:8:A:ALA:C	5	8.85	4.17	11.54
(1,134)	2:114:B:THR:N	2:114:B:THR:CA	2:114:B:THR:C	2:115:B:MET:N	5	8.62	6.56	6.57
(1,143)	2:118:B:VAL:C	2:119:B:LEU:N	2:119:B:LEU:CA	2:119:B:LEU:C	5	8.45	4.82	10.85
(1,73)	1:41:A:ALA:C	1:42:A:CYS:N	1:42:A:CYS:CA	1:42:A:CYS:C	5	7.6	4.58	9.68
(1,121)	2:107:B:GLY:C	2:108:B:ALA:N	2:108:B:ALA:CA	2:108:B:ALA:C	5	5.2	1.33	5.34
(1,220)	2:157:B:SER:C	2:158:B:VAL:N	2:158:B:VAL:CA	2:158:B:VAL:C	5	4.92	3.4	3.94
(1,108)	2:101:B:LYS:N	2:101:B:LYS:CA	2:101:B:LYS:C	2:102:B:LEU:N	5	4.32	1.31	4.44
(1,235)	2:165:B:TYR:N	2:165:B:TYR:CA	2:165:B:TYR:C	2:166:B:THR:N	5	4.16	2.95	2.17
(1,113)	2:103:B:LEU:C	2:104:B:LYS:N	2:104:B:LYS:CA	2:104:B:LYS:C	5	3.72	1.83	3.56
(1,93)	2:92:B:LEU:C	2:93:B:VAL:N	2:93:B:VAL:CA	2:93:B:VAL:C	5	3.07	1.37	2.7
(1,211)	2:152:B:GLY:C	2:153:B:VAL:N	2:153:B:VAL:CA	2:153:B:VAL:C	5	2.89	1.36	2.31
(1,27)	1:17:A:ASN:N	1:17:A:ASN:CA	1:17:A:ASN:C	1:18:A:LEU:N	4	18.02	22.63	6.25
(1,213)	2:154:B:PRO:N	2:154:B:PRO:CA	2:154:B:PRO:C	2:155:B:SER:N	4	12.01	4.55	11.7
(1,142)	2:118:B:VAL:N	2:118:B:VAL:CA	2:118:B:VAL:C	2:119:B:LEU:N	4	11.91	6.54	12.34
(1,229)	2:162:B:ARG:N	2:162:B:ARG:CA	2:162:B:ARG:C	2:163:B:LYS:N	4	10.94	11.26	5.84
(1,45)	1:27:A:LYS:N	1:27:A:LYS:CA	1:27:A:LYS:C	1:28:A:ILE:N	4	7.89	11.02	1.72
(1,96)	2:94:B:ARG:N	2:94:B:ARG:CA	2:94:B:ARG:C	2:95:B:PRO:N	4	7.17	2.06	7.61
(1,49)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	1:30:A:GLN:N	4	6.78	3.62	6.91
(1,17)	1:12:A:PHE:N	1:12:A:PHE:CA	1:12:A:PHE:C	1:13:A:ALA:N	4	6.66	2.43	6.52
(1,243)	2:169:B:TYR:N	2:169:B:TYR:CA	2:169:B:TYR:C	2:170:B:ARG:N	4	6.48	2.66	6.56
(1,60)	1:34:A:ARG:C	1:35:A:ASP:N	1:35:A:ASP:CA	1:35:A:ASP:C	4	6.38	6.8	3.07
(1,133)	2:113:B:TYR:C	2:114:B:THR:N	2:114:B:THR:CA	2:114:B:THR:C	4	6.33	4.65	4.18
(1,87)	1:48:A:GLY:C	1:49:A:TYR:N	1:49:A:TYR:CA	1:49:A:TYR:C	4	5.68	1.52	5.22
(1,51)	1:30:A:GLN:N	1:30:A:GLN:CA	1:30:A:GLN:C	1:31:A:ARG:N	4	4.82	2.28	3.76
(1,114)	2:104:B:LYS:N	2:104:B:LYS:CA	2:104:B:LYS:C	2:105:B:SER:N	4	4.78	1.44	5.15
(1,19)	1:13:A:ALA:N	1:13:A:ALA:CA	1:13:A:ALA:C	1:14:A:GLU:N	4	4.64	1.52	4.81
(1,92)	2:92:B:LEU:N	2:92:B:LEU:CA	2:92:B:LEU:C	2:93:B:VAL:N	4	4.44	1.36	3.9
(1,102)	2:98:B:LEU:N	2:98:B:LEU:CA	2:98:B:LEU:C	2:99:B:LEU:N	4	4.27	2.56	3.72
(1,192)	2:143:B:SER:N	2:143:B:SER:CA	2:143:B:SER:C	2:144:B:ASN:N	4	4.09	1.51	4.3
(1,212)	2:153:B:VAL:N	2:153:B:VAL:CA	2:153:B:VAL:C	2:154:B:PRO:N	4	3.29	1.97	2.96
(1,30)	1:18:A:LEU:C	1:19:A:LEU:N	1:19:A:LEU:CA	1:19:A:LEU:C	4	2.92	2.0	2.14
(1,236)	2:165:B:TYR:C	2:166:B:THR:N	2:166:B:THR:CA	2:166:B:THR:C	4	2.61	1.29	2.16
(1,232)	2:163:B:LYS:C	2:164:B:ILE:N	2:164:B:ILE:CA	2:164:B:ILE:C	4	1.88	0.18	1.83
(1,35)	1:21:A:ALA:N	1:21:A:ALA:CA	1:21:A:ALA:C	1:22:A:GLY:N	4	1.4	0.47	1.2
(1,68)	1:39:A:PRO:N	1:39:A:PRO:CA	1:39:A:PRO:C	1:40:A:GLY:N	3	11.42	4.89	10.13
(1,184)	2:139:B:ILE:N	2:139:B:ILE:CA	2:139:B:ILE:C	2:140:B:VAL:N	3	11.16	4.8	11.04
(1,36)	1:21:A:ALA:C	1:22:A:GLY:N	1:22:A:GLY:CA	1:22:A:GLY:C	3	6.84	0.71	7.29
(1,171)	2:132:B:TYR:C	2:133:B:ASP:N	2:133:B:ASP:CA	2:133:B:ASP:C	3	6.73	5.12	4.94
(1,231)	2:163:B:LYS:N	2:163:B:LYS:CA	2:163:B:LYS:C	2:164:B:ILE:N	3	6.5	2.59	8.02
(1,52)	1:30:A:GLN:C	1:31:A:ARG:N	1:31:A:ARG:CA	1:31:A:ARG:C	3	5.58	1.55	5.75
(1,180)	2:137:B:GLN:N	2:137:B:GLN:CA	2:137:B:GLN:C	2:138:B:HIS:N	3	5.24	2.7	5.36
(1,252)	2:173:B:VAL:C	2:174:B:VAL:N	2:174:B:VAL:CA	2:174:B:VAL:C	3	4.18	1.15	3.44
(1,221)	2:158:B:VAL:N	2:158:B:VAL:CA	2:158:B:VAL:C	2:159:B:LYS:N	3	4.08	2.73	2.65
(1,88)	1:49:A:TYR:N	1:49:A:TYR:CA	1:49:A:TYR:C	1:50:A:CYS:N	3	3.61	1.43	3.59
(1,94)	2:93:B:VAL:N	2:93:B:VAL:CA	2:93:B:VAL:C	2:94:B:ARG:N	3	3.4	2.21	2.22
(1,222)	2:158:B:VAL:C	2:159:B:LYS:N	2:159:B:LYS:CA	2:159:B:LYS:C	3	3.29	2.34	2.31
(1,145)	2:119:B:LEU:C	2:120:B:PHE:N	2:120:B:PHE:CA	2:120:B:PHE:C	3	2.83	0.3	3.03
(1,112)	2:103:B:LEU:N	2:103:B:LEU:CA	2:103:B:LEU:C	2:104:B:LYS:N	3	2.48	0.78	2.66
(1,117)	2:105:B:SER:C	2:106:B:VAL:N	2:106:B:VAL:CA	2:106:B:VAL:C	3	2.36	0.97	2.56
(1,107)	2:100:B:LEU:C	2:101:B:LYS:N	2:101:B:LYS:CA	2:101:B:LYS:C	3	2.11	0.5	2.08

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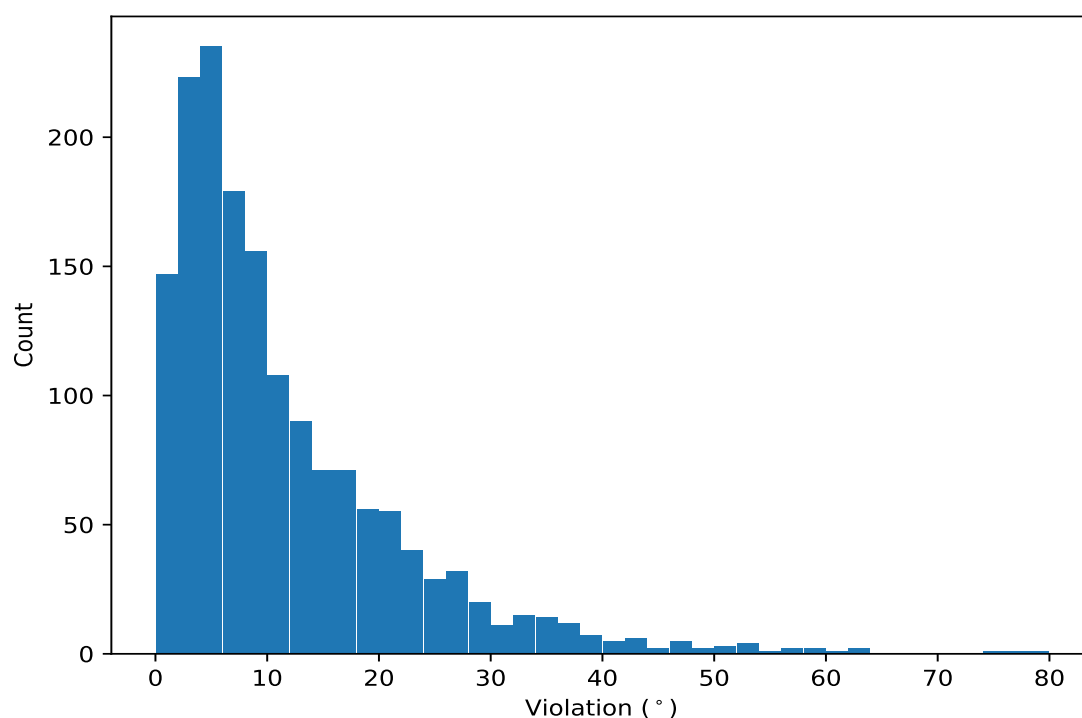
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,144)	2:119:B:LEU:N	2:119:B:LEU:CA	2:119:B:LEU:C	2:120:B:PHE:N	3	1.83	0.19	1.84
(1,158)	2:126:B:ILE:N	2:126:B:ILE:CA	2:126:B:ILE:C	2:127:B:MET:N	3	1.62	0.6	1.24
(1,41)	1:24:A:VAL:N	1:24:A:VAL:CA	1:24:A:VAL:C	1:25:A:CYS:N	2	21.17	10.84	21.17
(1,140)	2:117:B:GLU:N	2:117:B:GLU:CA	2:117:B:GLU:C	2:118:B:VAL:N	2	9.11	2.55	9.11
(1,43)	1:25:A:CYS:N	1:25:A:CYS:CA	1:25:A:CYS:C	1:26:A:PRO:N	2	7.7	3.19	7.7
(1,228)	2:161:B:HIS:C	2:162:B:ARG:N	2:162:B:ARG:CA	2:162:B:ARG:C	2	6.9	2.36	6.9
(1,85)	1:47:A:ASN:C	1:48:A:GLY:N	1:48:A:GLY:CA	1:48:A:GLY:C	2	6.64	3.44	6.64
(1,242)	2:168:B:ILE:C	2:169:B:TYR:N	2:169:B:TYR:CA	2:169:B:TYR:C	2	5.49	0.78	5.49
(1,225)	2:160:B:GLU:N	2:160:B:GLU:CA	2:160:B:GLU:C	2:161:B:HIS:N	2	5.24	3.86	5.24
(1,182)	2:138:B:HIS:N	2:138:B:HIS:CA	2:138:B:HIS:C	2:139:B:ILE:N	2	5.04	1.45	5.04
(1,59)	1:34:A:ARG:N	1:34:A:ARG:CA	1:34:A:ARG:C	1:35:A:ASP:N	2	4.89	3.5	4.89
(1,207)	2:150:B:LEU:C	2:151:B:PHE:N	2:151:B:PHE:CA	2:151:B:PHE:C	2	4.41	1.89	4.41
(1,201)	2:147:B:LEU:C	2:148:B:GLY:N	2:148:B:GLY:CA	2:148:B:GLY:C	2	4.24	1.68	4.24
(1,154)	2:124:B:GLN:N	2:124:B:GLN:CA	2:124:B:GLN:C	2:125:B:TYR:N	2	3.43	1.43	3.43
(1,238)	2:166:B:THR:C	2:167:B:MET:N	2:167:B:MET:CA	2:167:B:MET:C	2	3.16	0.4	3.16
(1,202)	2:148:B:GLY:N	2:148:B:GLY:CA	2:148:B:GLY:C	2:149:B:ASP:N	2	2.94	1.46	2.94
(1,206)	2:150:B:LEU:N	2:150:B:LEU:CA	2:150:B:LEU:C	2:151:B:PHE:N	2	2.7	1.64	2.7
(1,48)	1:28:A:ILE:C	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	2	2.5	1.05	2.5
(1,215)	2:155:B:SER:N	2:155:B:SER:CA	2:155:B:SER:C	2:156:B:PHE:N	2	2.48	0.98	2.48
(1,210)	2:152:B:GLY:N	2:152:B:GLY:CA	2:152:B:GLY:C	2:153:B:VAL:N	2	2.43	1.03	2.43

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

10.5 All violated dihedral-angle restraints ⓘ

10.5.1 Histogram : Distribution of violations ⓘ

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 (°)
(1,124)	2:109:B:GLN:N	2:109:B:GLN:CA	2:109:B:GLN:C	2:110:B:LYS:N	5	79.94
(1,125)	2:109:B:GLN:C	2:110:B:LYS:N	2:110:B:LYS:CA	2:110:B:LYS:C	5	77.76
(1,14)	1:10:A:THR:C	1:11:A:SER:N	1:11:A:SER:CA	1:11:A:SER:C	6	74.47
(1,195)	2:144:B:ASN:C	2:145:B:ASP:N	2:145:B:ASP:CA	2:145:B:ASP:C	6	63.74
(1,129)	2:111:B:ASP:C	2:112:B:THR:N	2:112:B:THR:CA	2:112:B:THR:C	6	62.8
(1,194)	2:144:B:ASN:N	2:144:B:ASN:CA	2:144:B:ASN:C	2:145:B:ASP:N	6	61.26
(1,195)	2:144:B:ASN:C	2:145:B:ASP:N	2:145:B:ASP:CA	2:145:B:ASP:C	9	59.23
(1,195)	2:144:B:ASN:C	2:145:B:ASP:N	2:145:B:ASP:CA	2:145:B:ASP:C	5	58.01
(1,27)	1:17:A:ASN:N	1:17:A:ASN:CA	1:17:A:ASN:C	1:18:A:LEU:N	7	57.07
(1,194)	2:144:B:ASN:N	2:144:B:ASN:CA	2:144:B:ASN:C	2:145:B:ASP:N	9	56.42
(1,13)	1:10:A:THR:N	1:10:A:THR:CA	1:10:A:THR:C	1:11:A:SER:N	6	54.4
(1,122)	2:108:B:ALA:N	2:108:B:ALA:CA	2:108:B:ALA:C	2:109:B:GLN:N	7	53.62
(1,122)	2:108:B:ALA:N	2:108:B:ALA:CA	2:108:B:ALA:C	2:109:B:GLN:N	9	52.9
(1,122)	2:108:B:ALA:N	2:108:B:ALA:CA	2:108:B:ALA:C	2:109:B:GLN:N	5	52.51
(1,194)	2:144:B:ASN:N	2:144:B:ASN:CA	2:144:B:ASN:C	2:145:B:ASP:N	5	52.31
(1,161)	2:127:B:MET:C	2:128:B:THR:N	2:128:B:THR:CA	2:128:B:THR:C	7	50.57
(1,129)	2:111:B:ASP:C	2:112:B:THR:N	2:112:B:THR:CA	2:112:B:THR:C	7	50.25
(1,3)	1:3:A:SER:N	1:3:A:SER:CA	1:3:A:SER:C	1:4:A:GLY:N	7	50.19
(1,14)	1:10:A:THR:C	1:11:A:SER:N	1:11:A:SER:CA	1:11:A:SER:C	3	49.36
(1,130)	2:112:B:THR:N	2:112:B:THR:CA	2:112:B:THR:C	2:113:B:TYR:N	5	49.28
(1,122)	2:108:B:ALA:N	2:108:B:ALA:CA	2:108:B:ALA:C	2:109:B:GLN:N	2	47.83

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,122)	2:108:B:ALA:N	2:108:B:ALA:CA	2:108:B:ALA:C	2:109:B:GLN:N	8	47.63
(1,204)	2:149:B:ASP:N	2:149:B:ASP:CA	2:149:B:ASP:C	2:150:B:LEU:N	9	47.2
(1,122)	2:108:B:ALA:N	2:108:B:ALA:CA	2:108:B:ALA:C	2:109:B:GLN:N	6	46.98
(1,128)	2:111:B:ASP:N	2:111:B:ASP:CA	2:111:B:ASP:C	2:112:B:THR:N	6	46.94
(1,91)	1:50:A:CYS:C	1:51:A:GLY:N	1:51:A:GLY:CA	1:51:A:GLY:C	7	45.73
(1,122)	2:108:B:ALA:N	2:108:B:ALA:CA	2:108:B:ALA:C	2:109:B:GLN:N	10	44.49
(1,122)	2:108:B:ALA:N	2:108:B:ALA:CA	2:108:B:ALA:C	2:109:B:GLN:N	1	43.71
(1,61)	1:35:A:ASP:N	1:35:A:ASP:CA	1:35:A:ASP:C	1:36:A:SER:N	8	42.73
(1,161)	2:127:B:MET:C	2:128:B:THR:N	2:128:B:THR:CA	2:128:B:THR:C	8	42.66
(1,122)	2:108:B:ALA:N	2:108:B:ALA:CA	2:108:B:ALA:C	2:109:B:GLN:N	3	42.26
(1,190)	2:142:B:CYS:N	2:142:B:CYS:CA	2:142:B:CYS:C	2:143:B:SER:N	7	42.11
(1,204)	2:149:B:ASP:N	2:149:B:ASP:CA	2:149:B:ASP:C	2:150:B:LEU:N	7	42.1
(1,130)	2:112:B:THR:N	2:112:B:THR:CA	2:112:B:THR:C	2:113:B:TYR:N	6	41.06
(1,205)	2:149:B:ASP:C	2:150:B:LEU:N	2:150:B:LEU:CA	2:150:B:LEU:C	6	40.78
(1,197)	2:145:B:ASP:C	2:146:B:LEU:N	2:146:B:LEU:CA	2:146:B:LEU:C	7	40.77
(1,3)	1:3:A:SER:N	1:3:A:SER:CA	1:3:A:SER:C	1:4:A:GLY:N	10	40.52
(1,3)	1:3:A:SER:N	1:3:A:SER:CA	1:3:A:SER:C	1:4:A:GLY:N	4	40.28
(1,129)	2:111:B:ASP:C	2:112:B:THR:N	2:112:B:THR:CA	2:112:B:THR:C	5	39.82
(1,14)	1:10:A:THR:C	1:11:A:SER:N	1:11:A:SER:CA	1:11:A:SER:C	10	39.58
(1,205)	2:149:B:ASP:C	2:150:B:LEU:N	2:150:B:LEU:CA	2:150:B:LEU:C	5	38.75
(1,161)	2:127:B:MET:C	2:128:B:THR:N	2:128:B:THR:CA	2:128:B:THR:C	10	38.74
(1,91)	1:50:A:CYS:C	1:51:A:GLY:N	1:51:A:GLY:CA	1:51:A:GLY:C	9	38.71
(1,1)	1:1:A:SER:N	1:1:A:SER:CA	1:1:A:SER:C	1:2:A:GLY:N	6	38.53
(1,14)	1:10:A:THR:C	1:11:A:SER:N	1:11:A:SER:CA	1:11:A:SER:C	7	38.09
(1,97)	2:95:B:PRO:N	2:95:B:PRO:CA	2:95:B:PRO:C	2:96:B:LYS:N	9	37.52
(1,205)	2:149:B:ASP:C	2:150:B:LEU:N	2:150:B:LEU:CA	2:150:B:LEU:C	9	37.45
(1,14)	1:10:A:THR:C	1:11:A:SER:N	1:11:A:SER:CA	1:11:A:SER:C	2	37.38
(1,55)	1:32:A:CYS:N	1:32:A:CYS:CA	1:32:A:CYS:C	1:33:A:ARG:N	9	37.37
(1,204)	2:149:B:ASP:N	2:149:B:ASP:CA	2:149:B:ASP:C	2:150:B:LEU:N	5	37.11
(1,205)	2:149:B:ASP:C	2:150:B:LEU:N	2:150:B:LEU:CA	2:150:B:LEU:C	7	37.1
(1,247)	2:171:B:ASN:N	2:171:B:ASN:CA	2:171:B:ASN:C	2:172:B:LEU:N	5	36.91
(1,164)	2:129:B:LYS:N	2:129:B:LYS:CA	2:129:B:LYS:C	2:130:B:ARG:N	2	36.62
(1,128)	2:111:B:ASP:N	2:111:B:ASP:CA	2:111:B:ASP:C	2:112:B:THR:N	5	36.53
(1,205)	2:149:B:ASP:C	2:150:B:LEU:N	2:150:B:LEU:CA	2:150:B:LEU:C	10	36.45
(1,2)	1:2:A:GLY:C	1:3:A:SER:N	1:3:A:SER:CA	1:3:A:SER:C	8	36.13
(1,161)	2:127:B:MET:C	2:128:B:THR:N	2:128:B:THR:CA	2:128:B:THR:C	6	36.05
(1,249)	2:172:B:LEU:N	2:172:B:LEU:CA	2:172:B:LEU:C	2:173:B:VAL:N	9	35.73
(1,128)	2:111:B:ASP:N	2:111:B:ASP:CA	2:111:B:ASP:C	2:112:B:THR:N	7	35.51
(1,161)	2:127:B:MET:C	2:128:B:THR:N	2:128:B:THR:CA	2:128:B:THR:C	1	35.47
(1,28)	1:17:A:ASN:C	1:18:A:LEU:N	1:18:A:LEU:CA	1:18:A:LEU:C	7	35.42
(1,70)	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	1:41:A:ALA:N	7	35.41
(1,164)	2:129:B:LYS:N	2:129:B:LYS:CA	2:129:B:LYS:C	2:130:B:ARG:N	5	35.39
(1,161)	2:127:B:MET:C	2:128:B:THR:N	2:128:B:THR:CA	2:128:B:THR:C	5	35.24
(1,198)	2:146:B:LEU:N	2:146:B:LEU:CA	2:146:B:LEU:C	2:147:B:LEU:N	9	35.21
(1,67)	1:38:A:CYS:N	1:38:A:CYS:CA	1:38:A:CYS:C	1:39:A:PRO:N	6	35.12
(1,204)	2:149:B:ASP:N	2:149:B:ASP:CA	2:149:B:ASP:C	2:150:B:LEU:N	6	35.1
(1,3)	1:3:A:SER:N	1:3:A:SER:CA	1:3:A:SER:C	1:4:A:GLY:N	1	34.99
(1,161)	2:127:B:MET:C	2:128:B:THR:N	2:128:B:THR:CA	2:128:B:THR:C	9	34.97
(1,247)	2:171:B:ASN:N	2:171:B:ASN:CA	2:171:B:ASN:C	2:172:B:LEU:N	7	34.44
(1,161)	2:127:B:MET:C	2:128:B:THR:N	2:128:B:THR:CA	2:128:B:THR:C	4	34.34
(1,67)	1:38:A:CYS:N	1:38:A:CYS:CA	1:38:A:CYS:C	1:39:A:PRO:N	9	33.91

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,91)	1:50:A:CYS:C	1:51:A:GLY:N	1:51:A:GLY:CA	1:51:A:GLY:C	8	33.68
(1,14)	1:10:A:THR:C	1:11:A:SER:N	1:11:A:SER:CA	1:11:A:SER:C	9	33.64
(1,161)	2:127:B:MET:C	2:128:B:THR:N	2:128:B:THR:CA	2:128:B:THR:C	3	33.6
(1,161)	2:127:B:MET:C	2:128:B:THR:N	2:128:B:THR:CA	2:128:B:THR:C	2	33.32
(1,67)	1:38:A:CYS:N	1:38:A:CYS:CA	1:38:A:CYS:C	1:39:A:PRO:N	7	33.17
(1,3)	1:3:A:SER:N	1:3:A:SER:CA	1:3:A:SER:C	1:4:A:GLY:N	3	33.15
(1,69)	1:39:A:PRO:C	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	7	32.99
(1,67)	1:38:A:CYS:N	1:38:A:CYS:CA	1:38:A:CYS:C	1:39:A:PRO:N	5	32.74
(1,3)	1:3:A:SER:N	1:3:A:SER:CA	1:3:A:SER:C	1:4:A:GLY:N	2	32.47
(1,12)	1:9:A:PRO:C	1:10:A:THR:N	1:10:A:THR:CA	1:10:A:THR:C	10	32.46
(1,230)	2:162:B:ARG:C	2:163:B:LYS:N	2:163:B:LYS:CA	2:163:B:LYS:C	5	32.18
(1,74)	1:42:A:CYS:N	1:42:A:CYS:CA	1:42:A:CYS:C	1:43:A:ILE:N	7	32.18
(1,197)	2:145:B:ASP:C	2:146:B:LEU:N	2:146:B:LEU:CA	2:146:B:LEU:C	10	32.07
(1,41)	1:24:A:VAL:N	1:24:A:VAL:CA	1:24:A:VAL:C	1:25:A:CYS:N	9	32.01
(1,13)	1:10:A:THR:N	1:10:A:THR:CA	1:10:A:THR:C	1:11:A:SER:N	3	31.94
(1,205)	2:149:B:ASP:C	2:150:B:LEU:N	2:150:B:LEU:CA	2:150:B:LEU:C	8	31.89
(1,56)	1:32:A:CYS:C	1:33:A:ARG:N	1:33:A:ARG:CA	1:33:A:ARG:C	9	31.71
(1,164)	2:129:B:LYS:N	2:129:B:LYS:CA	2:129:B:LYS:C	2:130:B:ARG:N	6	31.5
(1,97)	2:95:B:PRO:N	2:95:B:PRO:CA	2:95:B:PRO:C	2:96:B:LYS:N	1	31.26
(1,164)	2:129:B:LYS:N	2:129:B:LYS:CA	2:129:B:LYS:C	2:130:B:ARG:N	1	30.92
(1,191)	2:142:B:CYS:C	2:143:B:SER:N	2:143:B:SER:CA	2:143:B:SER:C	7	30.81
(1,197)	2:145:B:ASP:C	2:146:B:LEU:N	2:146:B:LEU:CA	2:146:B:LEU:C	9	30.64
(1,122)	2:108:B:ALA:N	2:108:B:ALA:CA	2:108:B:ALA:C	2:109:B:GLN:N	4	30.58
(1,168)	2:131:B:LEU:N	2:131:B:LEU:CA	2:131:B:LEU:C	2:132:B:TYR:N	7	30.22
(1,204)	2:149:B:ASP:N	2:149:B:ASP:CA	2:149:B:ASP:C	2:150:B:LEU:N	10	30.04
(1,229)	2:162:B:ARG:N	2:162:B:ARG:CA	2:162:B:ARG:C	2:163:B:LYS:N	5	29.94
(1,90)	1:50:A:CYS:N	1:50:A:CYS:CA	1:50:A:CYS:C	1:51:A:GLY:N	8	29.91
(1,131)	2:112:B:THR:C	2:113:B:TYR:N	2:113:B:TYR:CA	2:113:B:TYR:C	5	29.88
(1,91)	1:50:A:CYS:C	1:51:A:GLY:N	1:51:A:GLY:CA	1:51:A:GLY:C	6	29.87
(1,127)	2:110:B:LYS:C	2:111:B:ASP:N	2:111:B:ASP:CA	2:111:B:ASP:C	5	29.81
(1,218)	2:156:B:PHE:C	2:157:B:SER:N	2:157:B:SER:CA	2:157:B:SER:C	10	29.68
(1,177)	2:135:B:LYS:C	2:136:B:GLN:N	2:136:B:GLN:CA	2:136:B:GLN:C	10	29.47
(1,130)	2:112:B:THR:N	2:112:B:THR:CA	2:112:B:THR:C	2:113:B:TYR:N	7	29.34
(1,205)	2:149:B:ASP:C	2:150:B:LEU:N	2:150:B:LEU:CA	2:150:B:LEU:C	2	29.22
(1,75)	1:42:A:CYS:C	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	4	29.08
(1,126)	2:110:B:LYS:N	2:110:B:LYS:CA	2:110:B:LYS:C	2:111:B:ASP:N	5	29.0
(1,204)	2:149:B:ASP:N	2:149:B:ASP:CA	2:149:B:ASP:C	2:150:B:LEU:N	8	28.97
(1,190)	2:142:B:CYS:N	2:142:B:CYS:CA	2:142:B:CYS:C	2:143:B:SER:N	9	28.94
(1,40)	1:23:A:GLY:C	1:24:A:VAL:N	1:24:A:VAL:CA	1:24:A:VAL:C	9	28.91
(1,240)	2:167:B:MET:C	2:168:B:ILE:N	2:168:B:ILE:CA	2:168:B:ILE:C	5	28.51
(1,61)	1:35:A:ASP:N	1:35:A:ASP:CA	1:35:A:ASP:C	1:36:A:SER:N	1	28.33
(1,198)	2:146:B:LEU:N	2:146:B:LEU:CA	2:146:B:LEU:C	2:147:B:LEU:N	7	28.26
(1,127)	2:110:B:LYS:C	2:111:B:ASP:N	2:111:B:ASP:CA	2:111:B:ASP:C	8	28.26
(1,164)	2:129:B:LYS:N	2:129:B:LYS:CA	2:129:B:LYS:C	2:130:B:ARG:N	4	28.24
(1,74)	1:42:A:CYS:N	1:42:A:CYS:CA	1:42:A:CYS:C	1:43:A:ILE:N	8	28.11
(1,197)	2:145:B:ASP:C	2:146:B:LEU:N	2:146:B:LEU:CA	2:146:B:LEU:C	3	27.93
(1,197)	2:145:B:ASP:C	2:146:B:LEU:N	2:146:B:LEU:CA	2:146:B:LEU:C	4	27.9
(1,197)	2:145:B:ASP:C	2:146:B:LEU:N	2:146:B:LEU:CA	2:146:B:LEU:C	6	27.8
(1,4)	1:4:A:GLY:C	1:5:A:ALA:N	1:5:A:ALA:CA	1:5:A:ALA:C	1	27.78
(1,82)	1:46:A:GLY:N	1:46:A:GLY:CA	1:46:A:GLY:C	1:47:A:ASN:N	1	27.73
(1,250)	2:172:B:LEU:C	2:173:B:VAL:N	2:173:B:VAL:CA	2:173:B:VAL:C	9	27.66

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,3)	1:3:A:SER:N	1:3:A:SER:CA	1:3:A:SER:C	1:4:A:GLY:N	6	27.48
(1,44)	1:26:A:PRO:C	1:27:A:LYS:N	1:27:A:LYS:CA	1:27:A:LYS:C	7	27.42
(1,189)	2:141:B:TYR:C	2:142:B:CYS:N	2:142:B:CYS:CA	2:142:B:CYS:C	9	27.41
(1,240)	2:167:B:MET:C	2:168:B:ILE:N	2:168:B:ILE:CA	2:168:B:ILE:C	4	27.33
(1,197)	2:145:B:ASP:C	2:146:B:LEU:N	2:146:B:LEU:CA	2:146:B:LEU:C	8	27.07
(1,165)	2:129:B:LYS:C	2:130:B:ARG:N	2:130:B:ARG:CA	2:130:B:ARG:C	5	27.04
(1,90)	1:50:A:CYS:N	1:50:A:CYS:CA	1:50:A:CYS:C	1:51:A:GLY:N	9	27.02
(1,240)	2:167:B:MET:C	2:168:B:ILE:N	2:168:B:ILE:CA	2:168:B:ILE:C	6	26.99
(1,45)	1:27:A:LYS:N	1:27:A:LYS:CA	1:27:A:LYS:C	1:28:A:ILE:N	7	26.97
(1,23)	1:15:A:TYR:N	1:15:A:TYR:CA	1:15:A:TYR:C	1:16:A:TRP:N	6	26.97
(1,239)	2:167:B:MET:N	2:167:B:MET:CA	2:167:B:MET:C	2:168:B:ILE:N	1	26.95
(1,195)	2:144:B:ASN:C	2:145:B:ASP:N	2:145:B:ASP:CA	2:145:B:ASP:C	2	26.94
(1,164)	2:129:B:LYS:N	2:129:B:LYS:CA	2:129:B:LYS:C	2:130:B:ARG:N	3	26.92
(1,240)	2:167:B:MET:C	2:168:B:ILE:N	2:168:B:ILE:CA	2:168:B:ILE:C	7	26.9
(1,197)	2:145:B:ASP:C	2:146:B:LEU:N	2:146:B:LEU:CA	2:146:B:LEU:C	2	26.73
(1,75)	1:42:A:CYS:C	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	8	26.73
(1,58)	1:33:A:ARG:C	1:34:A:ARG:N	1:34:A:ARG:CA	1:34:A:ARG:C	9	26.64
(1,69)	1:39:A:PRO:C	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	6	26.6
(1,75)	1:42:A:CYS:C	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	6	26.57
(1,126)	2:110:B:LYS:N	2:110:B:LYS:CA	2:110:B:LYS:C	2:111:B:ASP:N	8	26.44
(1,125)	2:109:B:GLN:C	2:110:B:LYS:N	2:110:B:LYS:CA	2:110:B:LYS:C	8	26.44
(1,3)	1:3:A:SER:N	1:3:A:SER:CA	1:3:A:SER:C	1:4:A:GLY:N	5	26.44
(1,4)	1:4:A:GLY:C	1:5:A:ALA:N	1:5:A:ALA:CA	1:5:A:ALA:C	9	26.4
(1,250)	2:172:B:LEU:C	2:173:B:VAL:N	2:173:B:VAL:CA	2:173:B:VAL:C	6	26.34
(1,42)	1:24:A:VAL:C	1:25:A:CYS:N	1:25:A:CYS:CA	1:25:A:CYS:C	1	26.31
(1,239)	2:167:B:MET:N	2:167:B:MET:CA	2:167:B:MET:C	2:168:B:ILE:N	7	26.21
(1,75)	1:42:A:CYS:C	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	7	25.99
(1,13)	1:10:A:THR:N	1:10:A:THR:CA	1:10:A:THR:C	1:11:A:SER:N	10	25.97
(1,239)	2:167:B:MET:N	2:167:B:MET:CA	2:167:B:MET:C	2:168:B:ILE:N	6	25.96
(1,65)	1:37:A:ASP:N	1:37:A:ASP:CA	1:37:A:ASP:C	1:38:A:CYS:N	9	25.94
(1,13)	1:10:A:THR:N	1:10:A:THR:CA	1:10:A:THR:C	1:11:A:SER:N	7	25.91
(1,162)	2:128:B:THR:N	2:128:B:THR:CA	2:128:B:THR:C	2:129:B:LYS:N	8	25.83
(1,165)	2:129:B:LYS:C	2:130:B:ARG:N	2:130:B:ARG:CA	2:130:B:ARG:C	6	25.72
(1,4)	1:4:A:GLY:C	1:5:A:ALA:N	1:5:A:ALA:CA	1:5:A:ALA:C	8	25.71
(1,164)	2:129:B:LYS:N	2:129:B:LYS:CA	2:129:B:LYS:C	2:130:B:ARG:N	10	25.65
(1,100)	2:97:B:PRO:N	2:97:B:PRO:CA	2:97:B:PRO:C	2:98:B:LEU:N	3	25.41
(1,187)	2:140:B:VAL:C	2:141:B:TYR:N	2:141:B:TYR:CA	2:141:B:TYR:C	9	25.28
(1,97)	2:95:B:PRO:N	2:95:B:PRO:CA	2:95:B:PRO:C	2:96:B:LYS:N	10	25.24
(1,190)	2:142:B:CYS:N	2:142:B:CYS:CA	2:142:B:CYS:C	2:143:B:SER:N	4	25.22
(1,190)	2:142:B:CYS:N	2:142:B:CYS:CA	2:142:B:CYS:C	2:143:B:SER:N	6	25.15
(1,62)	1:35:A:ASP:C	1:36:A:SER:N	1:36:A:SER:CA	1:36:A:SER:C	5	25.05
(1,197)	2:145:B:ASP:C	2:146:B:LEU:N	2:146:B:LEU:CA	2:146:B:LEU:C	5	25.04
(1,240)	2:167:B:MET:C	2:168:B:ILE:N	2:168:B:ILE:CA	2:168:B:ILE:C	1	25.0
(1,97)	2:95:B:PRO:N	2:95:B:PRO:CA	2:95:B:PRO:C	2:96:B:LYS:N	5	24.92
(1,165)	2:129:B:LYS:C	2:130:B:ARG:N	2:130:B:ARG:CA	2:130:B:ARG:C	1	24.85
(1,247)	2:171:B:ASN:N	2:171:B:ASN:CA	2:171:B:ASN:C	2:172:B:LEU:N	1	24.78
(1,239)	2:167:B:MET:N	2:167:B:MET:CA	2:167:B:MET:C	2:168:B:ILE:N	5	24.71
(1,164)	2:129:B:LYS:N	2:129:B:LYS:CA	2:129:B:LYS:C	2:130:B:ARG:N	7	24.65
(1,165)	2:129:B:LYS:C	2:130:B:ARG:N	2:130:B:ARG:CA	2:130:B:ARG:C	2	24.61
(1,82)	1:46:A:GLY:N	1:46:A:GLY:CA	1:46:A:GLY:C	1:47:A:ASN:N	3	24.51
(1,39)	1:23:A:GLY:N	1:23:A:GLY:CA	1:23:A:GLY:C	1:24:A:VAL:N	9	24.34

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,123)	2:108:B:ALA:C	2:109:B:GLN:N	2:109:B:GLN:CA	2:109:B:GLN:C	5	24.32
(1,163)	2:128:B:THR:C	2:129:B:LYS:N	2:129:B:LYS:CA	2:129:B:LYS:C	5	24.26
(1,125)	2:109:B:GLN:C	2:110:B:LYS:N	2:110:B:LYS:CA	2:110:B:LYS:C	4	24.12
(1,61)	1:35:A:ASP:N	1:35:A:ASP:CA	1:35:A:ASP:C	1:36:A:SER:N	2	24.05
(1,74)	1:42:A:CYS:N	1:42:A:CYS:CA	1:42:A:CYS:C	1:43:A:ILE:N	6	23.94
(1,2)	1:2:A:GLY:C	1:3:A:SER:N	1:3:A:SER:CA	1:3:A:SER:C	9	23.94
(1,240)	2:167:B:MET:C	2:168:B:ILE:N	2:168:B:ILE:CA	2:168:B:ILE:C	3	23.93
(1,97)	2:95:B:PRO:N	2:95:B:PRO:CA	2:95:B:PRO:C	2:96:B:LYS:N	6	23.92
(1,1)	1:1:A:SER:N	1:1:A:SER:CA	1:1:A:SER:C	1:2:A:GLY:N	9	23.92
(1,181)	2:137:B:GLN:C	2:138:B:HIS:N	2:138:B:HIS:CA	2:138:B:HIS:C	7	23.82
(1,164)	2:129:B:LYS:N	2:129:B:LYS:CA	2:129:B:LYS:C	2:130:B:ARG:N	9	23.76
(1,198)	2:146:B:LEU:N	2:146:B:LEU:CA	2:146:B:LEU:C	2:147:B:LEU:N	4	23.74
(1,74)	1:42:A:CYS:N	1:42:A:CYS:CA	1:42:A:CYS:C	1:43:A:ILE:N	4	23.57
(1,46)	1:27:A:LYS:C	1:28:A:ILE:N	1:28:A:ILE:CA	1:28:A:ILE:C	7	23.53
(1,100)	2:97:B:PRO:N	2:97:B:PRO:CA	2:97:B:PRO:C	2:98:B:LEU:N	10	23.47
(1,4)	1:4:A:GLY:C	1:5:A:ALA:N	1:5:A:ALA:CA	1:5:A:ALA:C	7	23.39
(1,2)	1:2:A:GLY:C	1:3:A:SER:N	1:3:A:SER:CA	1:3:A:SER:C	7	23.36
(1,160)	2:127:B:MET:N	2:127:B:MET:CA	2:127:B:MET:C	2:128:B:THR:N	7	23.33
(1,160)	2:127:B:MET:N	2:127:B:MET:CA	2:127:B:MET:C	2:128:B:THR:N	8	23.24
(1,175)	2:134:B:GLU:C	2:135:B:LYS:N	2:135:B:LYS:CA	2:135:B:LYS:C	1	23.16
(1,53)	1:31:A:ARG:N	1:31:A:ARG:CA	1:31:A:ARG:C	1:32:A:CYS:N	6	23.08
(1,214)	2:154:B:PRO:C	2:155:B:SER:N	2:155:B:SER:CA	2:155:B:SER:C	7	23.02
(1,164)	2:129:B:LYS:N	2:129:B:LYS:CA	2:129:B:LYS:C	2:130:B:ARG:N	8	22.97
(1,54)	1:31:A:ARG:C	1:32:A:CYS:N	1:32:A:CYS:CA	1:32:A:CYS:C	6	22.97
(1,26)	1:16:A:TRP:C	1:17:A:ASN:N	1:17:A:ASN:CA	1:17:A:ASN:C	7	22.96
(1,204)	2:149:B:ASP:N	2:149:B:ASP:CA	2:149:B:ASP:C	2:150:B:LEU:N	2	22.94
(1,61)	1:35:A:ASP:N	1:35:A:ASP:CA	1:35:A:ASP:C	1:36:A:SER:N	6	22.93
(1,14)	1:10:A:THR:C	1:11:A:SER:N	1:11:A:SER:CA	1:11:A:SER:C	5	22.89
(1,97)	2:95:B:PRO:N	2:95:B:PRO:CA	2:95:B:PRO:C	2:96:B:LYS:N	7	22.81
(1,205)	2:149:B:ASP:C	2:150:B:LEU:N	2:150:B:LEU:CA	2:150:B:LEU:C	1	22.65
(1,239)	2:167:B:MET:N	2:167:B:MET:CA	2:167:B:MET:C	2:168:B:ILE:N	4	22.64
(1,162)	2:128:B:THR:N	2:128:B:THR:CA	2:128:B:THR:C	2:129:B:LYS:N	9	22.57
(1,42)	1:24:A:VAL:C	1:25:A:CYS:N	1:25:A:CYS:CA	1:25:A:CYS:C	5	22.49
(1,194)	2:144:B:ASN:N	2:144:B:ASN:CA	2:144:B:ASN:C	2:145:B:ASP:N	1	22.45
(1,67)	1:38:A:CYS:N	1:38:A:CYS:CA	1:38:A:CYS:C	1:39:A:PRO:N	4	22.43
(1,33)	1:20:A:SER:N	1:20:A:SER:CA	1:20:A:SER:C	1:21:A:ALA:N	4	22.39
(1,163)	2:128:B:THR:C	2:129:B:LYS:N	2:129:B:LYS:CA	2:129:B:LYS:C	2	22.37
(1,97)	2:95:B:PRO:N	2:95:B:PRO:CA	2:95:B:PRO:C	2:96:B:LYS:N	8	22.37
(1,4)	1:4:A:GLY:C	1:5:A:ALA:N	1:5:A:ALA:CA	1:5:A:ALA:C	3	22.34
(1,187)	2:140:B:VAL:C	2:141:B:TYR:N	2:141:B:TYR:CA	2:141:B:TYR:C	8	22.27
(1,131)	2:112:B:THR:C	2:113:B:TYR:N	2:113:B:TYR:CA	2:113:B:TYR:C	6	22.2
(1,204)	2:149:B:ASP:N	2:149:B:ASP:CA	2:149:B:ASP:C	2:150:B:LEU:N	1	22.12
(1,82)	1:46:A:GLY:N	1:46:A:GLY:CA	1:46:A:GLY:C	1:47:A:ASN:N	8	22.1
(1,100)	2:97:B:PRO:N	2:97:B:PRO:CA	2:97:B:PRO:C	2:98:B:LEU:N	2	22.07
(1,165)	2:129:B:LYS:C	2:130:B:ARG:N	2:130:B:ARG:CA	2:130:B:ARG:C	7	21.99
(1,76)	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	1:44:A:CYS:N	7	21.99
(1,75)	1:42:A:CYS:C	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	9	21.97
(1,40)	1:23:A:GLY:C	1:24:A:VAL:N	1:24:A:VAL:CA	1:24:A:VAL:C	8	21.91
(1,216)	2:155:B:SER:C	2:156:B:PHE:N	2:156:B:PHE:CA	2:156:B:PHE:C	5	21.88
(1,165)	2:129:B:LYS:C	2:130:B:ARG:N	2:130:B:ARG:CA	2:130:B:ARG:C	4	21.74
(1,100)	2:97:B:PRO:N	2:97:B:PRO:CA	2:97:B:PRO:C	2:98:B:LEU:N	7	21.69

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,165)	2:129:B:LYS:C	2:130:B:ARG:N	2:130:B:ARG:CA	2:130:B:ARG:C	3	21.68
(1,176)	2:135:B:LYS:N	2:135:B:LYS:CA	2:135:B:LYS:C	2:136:B:GLN:N	10	21.6
(1,67)	1:38:A:CYS:N	1:38:A:CYS:CA	1:38:A:CYS:C	1:39:A:PRO:N	3	21.6
(1,165)	2:129:B:LYS:C	2:130:B:ARG:N	2:130:B:ARG:CA	2:130:B:ARG:C	10	21.52
(1,197)	2:145:B:ASP:C	2:146:B:LEU:N	2:146:B:LEU:CA	2:146:B:LEU:C	1	21.49
(1,134)	2:114:B:THR:N	2:114:B:THR:CA	2:114:B:THR:C	2:115:B:MET:N	9	21.47
(1,76)	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	1:44:A:CYS:N	3	21.46
(1,123)	2:108:B:ALA:C	2:109:B:GLN:N	2:109:B:GLN:CA	2:109:B:GLN:C	10	21.43
(1,40)	1:23:A:GLY:C	1:24:A:VAL:N	1:24:A:VAL:CA	1:24:A:VAL:C	5	21.42
(1,76)	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	1:44:A:CYS:N	2	21.38
(1,172)	2:133:B:ASP:N	2:133:B:ASP:CA	2:133:B:ASP:C	2:134:B:GLU:N	5	21.37
(1,123)	2:108:B:ALA:C	2:109:B:GLN:N	2:109:B:GLN:CA	2:109:B:GLN:C	7	21.33
(1,198)	2:146:B:LEU:N	2:146:B:LEU:CA	2:146:B:LEU:C	2:147:B:LEU:N	3	21.31
(1,168)	2:131:B:LEU:N	2:131:B:LEU:CA	2:131:B:LEU:C	2:132:B:TYR:N	5	21.25
(1,208)	2:151:B:PHE:N	2:151:B:PHE:CA	2:151:B:PHE:C	2:152:B:GLY:N	7	21.24
(1,4)	1:4:A:GLY:C	1:5:A:ALA:N	1:5:A:ALA:CA	1:5:A:ALA:C	2	21.24
(1,181)	2:137:B:GLN:C	2:138:B:HIS:N	2:138:B:HIS:CA	2:138:B:HIS:C	9	21.21
(1,168)	2:131:B:LEU:N	2:131:B:LEU:CA	2:131:B:LEU:C	2:132:B:TYR:N	6	21.2
(1,40)	1:23:A:GLY:C	1:24:A:VAL:N	1:24:A:VAL:CA	1:24:A:VAL:C	1	21.17
(1,57)	1:33:A:ARG:N	1:33:A:ARG:CA	1:33:A:ARG:C	1:34:A:ARG:N	10	21.15
(1,165)	2:129:B:LYS:C	2:130:B:ARG:N	2:130:B:ARG:CA	2:130:B:ARG:C	9	21.11
(1,189)	2:141:B:TYR:C	2:142:B:CYS:N	2:142:B:CYS:CA	2:142:B:CYS:C	6	21.1
(1,124)	2:109:B:GLN:N	2:109:B:GLN:CA	2:109:B:GLN:C	2:110:B:LYS:N	4	21.07
(1,97)	2:95:B:PRO:N	2:95:B:PRO:CA	2:95:B:PRO:C	2:96:B:LYS:N	4	21.03
(1,100)	2:97:B:PRO:N	2:97:B:PRO:CA	2:97:B:PRO:C	2:98:B:LEU:N	6	21.02
(1,162)	2:128:B:THR:N	2:128:B:THR:CA	2:128:B:THR:C	2:129:B:LYS:N	5	20.95
(1,195)	2:144:B:ASN:C	2:145:B:ASP:N	2:145:B:ASP:CA	2:145:B:ASP:C	8	20.94
(1,163)	2:128:B:THR:C	2:129:B:LYS:N	2:129:B:LYS:CA	2:129:B:LYS:C	9	20.94
(1,4)	1:4:A:GLY:C	1:5:A:ALA:N	1:5:A:ALA:CA	1:5:A:ALA:C	10	20.91
(1,195)	2:144:B:ASN:C	2:145:B:ASP:N	2:145:B:ASP:CA	2:145:B:ASP:C	1	20.88
(1,100)	2:97:B:PRO:N	2:97:B:PRO:CA	2:97:B:PRO:C	2:98:B:LEU:N	8	20.88
(1,37)	1:22:A:GLY:N	1:22:A:GLY:CA	1:22:A:GLY:C	1:23:A:GLY:N	6	20.87
(1,240)	2:167:B:MET:C	2:168:B:ILE:N	2:168:B:ILE:CA	2:168:B:ILE:C	9	20.77
(1,97)	2:95:B:PRO:N	2:95:B:PRO:CA	2:95:B:PRO:C	2:96:B:LYS:N	3	20.73
(1,198)	2:146:B:LEU:N	2:146:B:LEU:CA	2:146:B:LEU:C	2:147:B:LEU:N	6	20.66
(1,4)	1:4:A:GLY:C	1:5:A:ALA:N	1:5:A:ALA:CA	1:5:A:ALA:C	5	20.65
(1,124)	2:109:B:GLN:N	2:109:B:GLN:CA	2:109:B:GLN:C	2:110:B:LYS:N	2	20.64
(1,124)	2:109:B:GLN:N	2:109:B:GLN:CA	2:109:B:GLN:C	2:110:B:LYS:N	9	20.56
(1,25)	1:16:A:TRP:N	1:16:A:TRP:CA	1:16:A:TRP:C	1:17:A:ASN:N	6	20.52
(1,32)	1:19:A:LEU:C	1:20:A:SER:N	1:20:A:SER:CA	1:20:A:SER:C	4	20.44
(1,123)	2:108:B:ALA:C	2:109:B:GLN:N	2:109:B:GLN:CA	2:109:B:GLN:C	3	20.42
(1,64)	1:36:A:SER:C	1:37:A:ASP:N	1:37:A:ASP:CA	1:37:A:ASP:C	8	20.37
(1,172)	2:133:B:ASP:N	2:133:B:ASP:CA	2:133:B:ASP:C	2:134:B:GLU:N	4	20.33
(1,239)	2:167:B:MET:N	2:167:B:MET:CA	2:167:B:MET:C	2:168:B:ILE:N	3	20.25
(1,142)	2:118:B:VAL:N	2:118:B:VAL:CA	2:118:B:VAL:C	2:119:B:LEU:N	9	20.19
(1,159)	2:126:B:ILE:C	2:127:B:MET:N	2:127:B:MET:CA	2:127:B:MET:C	6	20.12
(1,76)	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	1:44:A:CYS:N	1	20.08
(1,37)	1:22:A:GLY:N	1:22:A:GLY:CA	1:22:A:GLY:C	1:23:A:GLY:N	7	20.04
(1,159)	2:126:B:ILE:C	2:127:B:MET:N	2:127:B:MET:CA	2:127:B:MET:C	8	19.98
(1,194)	2:144:B:ASN:N	2:144:B:ASN:CA	2:144:B:ASN:C	2:145:B:ASP:N	2	19.82
(1,97)	2:95:B:PRO:N	2:95:B:PRO:CA	2:95:B:PRO:C	2:96:B:LYS:N	2	19.74

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,160)	2:127:B:MET:N	2:127:B:MET:CA	2:127:B:MET:C	2:128:B:THR:N	1	19.67
(1,247)	2:171:B:ASN:N	2:171:B:ASN:CA	2:171:B:ASN:C	2:172:B:LEU:N	4	19.64
(1,187)	2:140:B:VAL:C	2:141:B:TYR:N	2:141:B:TYR:CA	2:141:B:TYR:C	1	19.61
(1,120)	2:107:B:GLY:N	2:107:B:GLY:CA	2:107:B:GLY:C	2:108:B:ALA:N	2	19.61
(1,163)	2:128:B:THR:C	2:129:B:LYS:N	2:129:B:LYS:CA	2:129:B:LYS:C	6	19.6
(1,65)	1:37:A:ASP:N	1:37:A:ASP:CA	1:37:A:ASP:C	1:38:A:CYS:N	8	19.59
(1,205)	2:149:B:ASP:C	2:150:B:LEU:N	2:150:B:LEU:CA	2:150:B:LEU:C	4	19.51
(1,21)	1:14:A:GLU:N	1:14:A:GLU:CA	1:14:A:GLU:C	1:15:A:TYR:N	6	19.48
(1,123)	2:108:B:ALA:C	2:109:B:GLN:N	2:109:B:GLN:CA	2:109:B:GLN:C	8	19.43
(1,4)	1:4:A:GLY:C	1:5:A:ALA:N	1:5:A:ALA:CA	1:5:A:ALA:C	4	19.42
(1,13)	1:10:A:THR:N	1:10:A:THR:CA	1:10:A:THR:C	1:11:A:SER:N	2	19.29
(1,89)	1:49:A:TYR:C	1:50:A:CYS:N	1:50:A:CYS:CA	1:50:A:CYS:C	3	19.26
(1,98)	2:95:B:PRO:C	2:96:B:LYS:N	2:96:B:LYS:CA	2:96:B:LYS:C	9	19.23
(1,191)	2:142:B:CYS:C	2:143:B:SER:N	2:143:B:SER:CA	2:143:B:SER:C	9	19.22
(1,198)	2:146:B:LEU:N	2:146:B:LEU:CA	2:146:B:LEU:C	2:147:B:LEU:N	5	19.21
(1,91)	1:50:A:CYS:C	1:51:A:GLY:N	1:51:A:GLY:CA	1:51:A:GLY:C	3	19.19
(1,165)	2:129:B:LYS:C	2:130:B:ARG:N	2:130:B:ARG:CA	2:130:B:ARG:C	8	19.18
(1,76)	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	1:44:A:CYS:N	9	19.12
(1,84)	1:47:A:ASN:N	1:47:A:ASN:CA	1:47:A:ASN:C	1:48:A:GLY:N	7	19.09
(1,245)	2:170:B:ARG:N	2:170:B:ARG:CA	2:170:B:ARG:C	2:171:B:ASN:N	7	19.06
(1,135)	2:114:B:THR:C	2:115:B:MET:N	2:115:B:MET:CA	2:115:B:MET:C	9	19.06
(1,69)	1:39:A:PRO:C	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	9	19.01
(1,187)	2:140:B:VAL:C	2:141:B:TYR:N	2:141:B:TYR:CA	2:141:B:TYR:C	3	18.98
(1,191)	2:142:B:CYS:C	2:143:B:SER:N	2:143:B:SER:CA	2:143:B:SER:C	6	18.96
(1,160)	2:127:B:MET:N	2:127:B:MET:CA	2:127:B:MET:C	2:128:B:THR:N	4	18.9
(1,189)	2:141:B:TYR:C	2:142:B:CYS:N	2:142:B:CYS:CA	2:142:B:CYS:C	5	18.85
(1,247)	2:171:B:ASN:N	2:171:B:ASN:CA	2:171:B:ASN:C	2:172:B:LEU:N	3	18.84
(1,8)	1:6:A:SER:C	1:7:A:LYS:N	1:7:A:LYS:CA	1:7:A:LYS:C	4	18.78
(1,120)	2:107:B:GLY:N	2:107:B:GLY:CA	2:107:B:GLY:C	2:108:B:ALA:N	8	18.77
(1,213)	2:154:B:PRO:N	2:154:B:PRO:CA	2:154:B:PRO:C	2:155:B:SER:N	6	18.72
(1,169)	2:131:B:LEU:C	2:132:B:TYR:N	2:132:B:TYR:CA	2:132:B:TYR:C	6	18.66
(1,205)	2:149:B:ASP:C	2:150:B:LEU:N	2:150:B:LEU:CA	2:150:B:LEU:C	3	18.61
(1,58)	1:33:A:ARG:C	1:34:A:ARG:N	1:34:A:ARG:CA	1:34:A:ARG:C	5	18.59
(1,159)	2:126:B:ILE:C	2:127:B:MET:N	2:127:B:MET:CA	2:127:B:MET:C	1	18.57
(1,160)	2:127:B:MET:N	2:127:B:MET:CA	2:127:B:MET:C	2:128:B:THR:N	10	18.45
(1,159)	2:126:B:ILE:C	2:127:B:MET:N	2:127:B:MET:CA	2:127:B:MET:C	3	18.45
(1,100)	2:97:B:PRO:N	2:97:B:PRO:CA	2:97:B:PRO:C	2:98:B:LEU:N	4	18.43
(1,40)	1:23:A:GLY:C	1:24:A:VAL:N	1:24:A:VAL:CA	1:24:A:VAL:C	4	18.43
(1,25)	1:16:A:TRP:N	1:16:A:TRP:CA	1:16:A:TRP:C	1:17:A:ASN:N	8	18.4
(1,100)	2:97:B:PRO:N	2:97:B:PRO:CA	2:97:B:PRO:C	2:98:B:LEU:N	1	18.38
(1,119)	2:106:B:VAL:C	2:107:B:GLY:N	2:107:B:GLY:CA	2:107:B:GLY:C	2	18.37
(1,125)	2:109:B:GLN:C	2:110:B:LYS:N	2:110:B:LYS:CA	2:110:B:LYS:C	10	18.32
(1,160)	2:127:B:MET:N	2:127:B:MET:CA	2:127:B:MET:C	2:128:B:THR:N	3	18.27
(1,65)	1:37:A:ASP:N	1:37:A:ASP:CA	1:37:A:ASP:C	1:38:A:CYS:N	2	18.26
(1,123)	2:108:B:ALA:C	2:109:B:GLN:N	2:109:B:GLN:CA	2:109:B:GLN:C	2	18.2
(1,162)	2:128:B:THR:N	2:128:B:THR:CA	2:128:B:THR:C	2:129:B:LYS:N	3	18.18
(1,160)	2:127:B:MET:N	2:127:B:MET:CA	2:127:B:MET:C	2:128:B:THR:N	6	18.11
(1,76)	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	1:44:A:CYS:N	4	18.1
(1,240)	2:167:B:MET:C	2:168:B:ILE:N	2:168:B:ILE:CA	2:168:B:ILE:C	10	18.06
(1,42)	1:24:A:VAL:C	1:25:A:CYS:N	1:25:A:CYS:CA	1:25:A:CYS:C	3	18.05
(1,8)	1:6:A:SER:C	1:7:A:LYS:N	1:7:A:LYS:CA	1:7:A:LYS:C	6	18.05

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,60)	1:34:A:ARG:C	1:35:A:ASP:N	1:35:A:ASP:CA	1:35:A:ASP:C	8	18.04
(1,40)	1:23:A:GLY:C	1:24:A:VAL:N	1:24:A:VAL:CA	1:24:A:VAL:C	3	18.02
(1,78)	1:44:A:CYS:N	1:44:A:CYS:CA	1:44:A:CYS:C	1:45:A:ARG:N	7	17.95
(1,68)	1:39:A:PRO:N	1:39:A:PRO:CA	1:39:A:PRO:C	1:40:A:GLY:N	7	17.95
(1,216)	2:155:B:SER:C	2:156:B:PHE:N	2:156:B:PHE:CA	2:156:B:PHE:C	6	17.93
(1,177)	2:135:B:LYS:C	2:136:B:GLN:N	2:136:B:GLN:CA	2:136:B:GLN:C	4	17.93
(1,44)	1:26:A:PRO:C	1:27:A:LYS:N	1:27:A:LYS:CA	1:27:A:LYS:C	9	17.92
(1,174)	2:134:B:GLU:N	2:134:B:GLU:CA	2:134:B:GLU:C	2:135:B:LYS:N	5	17.9
(1,189)	2:141:B:TYR:C	2:142:B:CYS:N	2:142:B:CYS:CA	2:142:B:CYS:C	4	17.87
(1,163)	2:128:B:THR:C	2:129:B:LYS:N	2:129:B:LYS:CA	2:129:B:LYS:C	8	17.86
(1,174)	2:134:B:GLU:N	2:134:B:GLU:CA	2:134:B:GLU:C	2:135:B:LYS:N	1	17.77
(1,169)	2:131:B:LEU:C	2:132:B:TYR:N	2:132:B:TYR:CA	2:132:B:TYR:C	1	17.71
(1,67)	1:38:A:CYS:N	1:38:A:CYS:CA	1:38:A:CYS:C	1:39:A:PRO:N	2	17.71
(1,16)	1:11:A:SER:C	1:12:A:PHE:N	1:12:A:PHE:CA	1:12:A:PHE:C	6	17.65
(1,20)	1:13:A:ALA:C	1:14:A:GLU:N	1:14:A:GLU:CA	1:14:A:GLU:C	6	17.63
(1,123)	2:108:B:ALA:C	2:109:B:GLN:N	2:109:B:GLN:CA	2:109:B:GLN:C	1	17.62
(1,189)	2:141:B:TYR:C	2:142:B:CYS:N	2:142:B:CYS:CA	2:142:B:CYS:C	3	17.61
(1,123)	2:108:B:ALA:C	2:109:B:GLN:N	2:109:B:GLN:CA	2:109:B:GLN:C	9	17.61
(1,55)	1:32:A:CYS:N	1:32:A:CYS:CA	1:32:A:CYS:C	1:33:A:ARG:N	5	17.61
(1,227)	2:161:B:HIS:N	2:161:B:HIS:CA	2:161:B:HIS:C	2:162:B:ARG:N	10	17.54
(1,100)	2:97:B:PRO:N	2:97:B:PRO:CA	2:97:B:PRO:C	2:98:B:LEU:N	5	17.54
(1,78)	1:44:A:CYS:N	1:44:A:CYS:CA	1:44:A:CYS:C	1:45:A:ARG:N	5	17.51
(1,246)	2:170:B:ARG:C	2:171:B:ASN:N	2:171:B:ASN:CA	2:171:B:ASN:C	2	17.5
(1,163)	2:128:B:THR:C	2:129:B:LYS:N	2:129:B:LYS:CA	2:129:B:LYS:C	4	17.48
(1,76)	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	1:44:A:CYS:N	8	17.44
(1,244)	2:169:B:TYR:C	2:170:B:ARG:N	2:170:B:ARG:CA	2:170:B:ARG:C	5	17.4
(1,188)	2:141:B:TYR:N	2:141:B:TYR:CA	2:141:B:TYR:C	2:142:B:CYS:N	5	17.36
(1,16)	1:11:A:SER:C	1:12:A:PHE:N	1:12:A:PHE:CA	1:12:A:PHE:C	9	17.34
(1,169)	2:131:B:LEU:C	2:132:B:TYR:N	2:132:B:TYR:CA	2:132:B:TYR:C	7	17.29
(1,163)	2:128:B:THR:C	2:129:B:LYS:N	2:129:B:LYS:CA	2:129:B:LYS:C	10	17.29
(1,44)	1:26:A:PRO:C	1:27:A:LYS:N	1:27:A:LYS:CA	1:27:A:LYS:C	5	17.29
(1,198)	2:146:B:LEU:N	2:146:B:LEU:CA	2:146:B:LEU:C	2:147:B:LEU:N	1	17.22
(1,14)	1:10:A:THR:C	1:11:A:SER:N	1:11:A:SER:CA	1:11:A:SER:C	8	17.19
(1,174)	2:134:B:GLU:N	2:134:B:GLU:CA	2:134:B:GLU:C	2:135:B:LYS:N	3	17.16
(1,71)	1:40:A:GLY:C	1:41:A:ALA:N	1:41:A:ALA:CA	1:41:A:ALA:C	8	17.13
(1,8)	1:6:A:SER:C	1:7:A:LYS:N	1:7:A:LYS:CA	1:7:A:LYS:C	7	17.1
(1,184)	2:139:B:ILE:N	2:139:B:ILE:CA	2:139:B:ILE:C	2:140:B:VAL:N	9	17.09
(1,191)	2:142:B:CYS:C	2:143:B:SER:N	2:143:B:SER:CA	2:143:B:SER:C	4	17.06
(1,248)	2:171:B:ASN:C	2:172:B:LEU:N	2:172:B:LEU:CA	2:172:B:LEU:C	7	17.05
(1,190)	2:142:B:CYS:N	2:142:B:CYS:CA	2:142:B:CYS:C	2:143:B:SER:N	5	16.98
(1,198)	2:146:B:LEU:N	2:146:B:LEU:CA	2:146:B:LEU:C	2:147:B:LEU:N	2	16.82
(1,177)	2:135:B:LYS:C	2:136:B:GLN:N	2:136:B:GLN:CA	2:136:B:GLN:C	5	16.79
(1,76)	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	1:44:A:CYS:N	6	16.79
(1,72)	1:41:A:ALA:N	1:41:A:ALA:CA	1:41:A:ALA:C	1:42:A:CYS:N	7	16.78
(1,69)	1:39:A:PRO:C	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	8	16.76
(1,162)	2:128:B:THR:N	2:128:B:THR:CA	2:128:B:THR:C	2:129:B:LYS:N	10	16.65
(1,83)	1:46:A:GLY:C	1:47:A:ASN:N	1:47:A:ASN:CA	1:47:A:ASN:C	7	16.65
(1,77)	1:43:A:ILE:C	1:44:A:CYS:N	1:44:A:CYS:CA	1:44:A:CYS:C	9	16.54
(1,42)	1:24:A:VAL:C	1:25:A:CYS:N	1:25:A:CYS:CA	1:25:A:CYS:C	9	16.54
(1,239)	2:167:B:MET:N	2:167:B:MET:CA	2:167:B:MET:C	2:168:B:ILE:N	2	16.51
(1,162)	2:128:B:THR:N	2:128:B:THR:CA	2:128:B:THR:C	2:129:B:LYS:N	6	16.5

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,159)	2:126:B:ILE:C	2:127:B:MET:N	2:127:B:MET:CA	2:127:B:MET:C	7	16.49
(1,25)	1:16:A:TRP:N	1:16:A:TRP:CA	1:16:A:TRP:C	1:17:A:ASN:N	10	16.48
(1,245)	2:170:B:ARG:N	2:170:B:ARG:CA	2:170:B:ARG:C	2:171:B:ASN:N	4	16.45
(1,159)	2:126:B:ILE:C	2:127:B:MET:N	2:127:B:MET:CA	2:127:B:MET:C	4	16.44
(1,248)	2:171:B:ASN:C	2:172:B:LEU:N	2:172:B:LEU:CA	2:172:B:LEU:C	5	16.37
(1,82)	1:46:A:GLY:N	1:46:A:GLY:CA	1:46:A:GLY:C	1:47:A:ASN:N	9	16.37
(1,90)	1:50:A:CYS:N	1:50:A:CYS:CA	1:50:A:CYS:C	1:51:A:GLY:N	2	16.36
(1,76)	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	1:44:A:CYS:N	10	16.34
(1,90)	1:50:A:CYS:N	1:50:A:CYS:CA	1:50:A:CYS:C	1:51:A:GLY:N	1	16.33
(1,44)	1:26:A:PRO:C	1:27:A:LYS:N	1:27:A:LYS:CA	1:27:A:LYS:C	3	16.3
(1,77)	1:43:A:ILE:C	1:44:A:CYS:N	1:44:A:CYS:CA	1:44:A:CYS:C	2	16.29
(1,62)	1:35:A:ASP:C	1:36:A:SER:N	1:36:A:SER:CA	1:36:A:SER:C	7	16.28
(1,159)	2:126:B:ILE:C	2:127:B:MET:N	2:127:B:MET:CA	2:127:B:MET:C	2	16.24
(1,245)	2:170:B:ARG:N	2:170:B:ARG:CA	2:170:B:ARG:C	2:171:B:ASN:N	1	16.23
(1,125)	2:109:B:GLN:C	2:110:B:LYS:N	2:110:B:LYS:CA	2:110:B:LYS:C	2	16.13
(1,1)	1:1:A:SER:N	1:1:A:SER:CA	1:1:A:SER:C	1:2:A:GLY:N	7	16.09
(1,239)	2:167:B:MET:N	2:167:B:MET:CA	2:167:B:MET:C	2:168:B:ILE:N	10	16.08
(1,11)	1:8:A:ALA:N	1:8:A:ALA:CA	1:8:A:ALA:C	1:9:A:PRO:N	9	16.06
(1,119)	2:106:B:VAL:C	2:107:B:GLY:N	2:107:B:GLY:CA	2:107:B:GLY:C	4	16.05
(1,160)	2:127:B:MET:N	2:127:B:MET:CA	2:127:B:MET:C	2:128:B:THR:N	2	16.02
(1,198)	2:146:B:LEU:N	2:146:B:LEU:CA	2:146:B:LEU:C	2:147:B:LEU:N	10	16.01
(1,187)	2:140:B:VAL:C	2:141:B:TYR:N	2:141:B:TYR:CA	2:141:B:TYR:C	2	16.0
(1,177)	2:135:B:LYS:C	2:136:B:GLN:N	2:136:B:GLN:CA	2:136:B:GLN:C	6	15.93
(1,40)	1:23:A:GLY:C	1:24:A:VAL:N	1:24:A:VAL:CA	1:24:A:VAL:C	10	15.93
(1,77)	1:43:A:ILE:C	1:44:A:CYS:N	1:44:A:CYS:CA	1:44:A:CYS:C	3	15.88
(1,100)	2:97:B:PRO:N	2:97:B:PRO:CA	2:97:B:PRO:C	2:98:B:LEU:N	9	15.87
(1,162)	2:128:B:THR:N	2:128:B:THR:CA	2:128:B:THR:C	2:129:B:LYS:N	7	15.86
(1,77)	1:43:A:ILE:C	1:44:A:CYS:N	1:44:A:CYS:CA	1:44:A:CYS:C	1	15.74
(1,191)	2:142:B:CYS:C	2:143:B:SER:N	2:143:B:SER:CA	2:143:B:SER:C	3	15.72
(1,12)	1:9:A:PRO:C	1:10:A:THR:N	1:10:A:THR:CA	1:10:A:THR:C	5	15.72
(1,245)	2:170:B:ARG:N	2:170:B:ARG:CA	2:170:B:ARG:C	2:171:B:ASN:N	8	15.7
(1,163)	2:128:B:THR:C	2:129:B:LYS:N	2:129:B:LYS:CA	2:129:B:LYS:C	1	15.66
(1,53)	1:31:A:ARG:N	1:31:A:ARG:CA	1:31:A:ARG:C	1:32:A:CYS:N	5	15.63
(1,245)	2:170:B:ARG:N	2:170:B:ARG:CA	2:170:B:ARG:C	2:171:B:ASN:N	5	15.59
(1,77)	1:43:A:ILE:C	1:44:A:CYS:N	1:44:A:CYS:CA	1:44:A:CYS:C	8	15.51
(1,188)	2:141:B:TYR:N	2:141:B:TYR:CA	2:141:B:TYR:C	2:142:B:CYS:N	7	15.5
(1,120)	2:107:B:GLY:N	2:107:B:GLY:CA	2:107:B:GLY:C	2:108:B:ALA:N	7	15.41
(1,72)	1:41:A:ALA:N	1:41:A:ALA:CA	1:41:A:ALA:C	1:42:A:CYS:N	6	15.41
(1,142)	2:118:B:VAL:N	2:118:B:VAL:CA	2:118:B:VAL:C	2:119:B:LEU:N	5	15.39
(1,185)	2:139:B:ILE:C	2:140:B:VAL:N	2:140:B:VAL:CA	2:140:B:VAL:C	6	15.38
(1,245)	2:170:B:ARG:N	2:170:B:ARG:CA	2:170:B:ARG:C	2:171:B:ASN:N	10	15.37
(1,119)	2:106:B:VAL:C	2:107:B:GLY:N	2:107:B:GLY:CA	2:107:B:GLY:C	8	15.37
(1,198)	2:146:B:LEU:N	2:146:B:LEU:CA	2:146:B:LEU:C	2:147:B:LEU:N	8	15.3
(1,203)	2:148:B:GLY:C	2:149:B:ASP:N	2:149:B:ASP:CA	2:149:B:ASP:C	1	15.27
(1,20)	1:13:A:ALA:C	1:14:A:GLU:N	1:14:A:GLU:CA	1:14:A:GLU:C	10	15.26
(1,240)	2:167:B:MET:C	2:168:B:ILE:N	2:168:B:ILE:CA	2:168:B:ILE:C	2	15.25
(1,186)	2:140:B:VAL:N	2:140:B:VAL:CA	2:140:B:VAL:C	2:141:B:TYR:N	7	15.25
(1,32)	1:19:A:LEU:C	1:20:A:SER:N	1:20:A:SER:CA	1:20:A:SER:C	7	15.25
(1,115)	2:104:B:LYS:C	2:105:B:SER:N	2:105:B:SER:CA	2:105:B:SER:C	5	15.24
(1,124)	2:109:B:GLN:N	2:109:B:GLN:CA	2:109:B:GLN:C	2:110:B:LYS:N	8	15.23
(1,208)	2:151:B:PHE:N	2:151:B:PHE:CA	2:151:B:PHE:C	2:152:B:GLY:N	4	15.21

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,191)	2:142:B:CYS:C	2:143:B:SER:N	2:143:B:SER:CA	2:143:B:SER:C	8	15.21
(1,54)	1:31:A:ARG:C	1:32:A:CYS:N	1:32:A:CYS:CA	1:32:A:CYS:C	9	15.19
(1,65)	1:37:A:ASP:N	1:37:A:ASP:CA	1:37:A:ASP:C	1:38:A:CYS:N	1	15.17
(1,175)	2:134:B:GLU:C	2:135:B:LYS:N	2:135:B:LYS:CA	2:135:B:LYS:C	3	15.11
(1,217)	2:156:B:PHE:N	2:156:B:PHE:CA	2:156:B:PHE:C	2:157:B:SER:N	10	15.08
(1,163)	2:128:B:THR:C	2:129:B:LYS:N	2:129:B:LYS:CA	2:129:B:LYS:C	3	15.06
(1,124)	2:109:B:GLN:N	2:109:B:GLN:CA	2:109:B:GLN:C	2:110:B:LYS:N	10	15.03
(1,176)	2:135:B:LYS:N	2:135:B:LYS:CA	2:135:B:LYS:C	2:136:B:GLN:N	4	14.97
(1,125)	2:109:B:GLN:C	2:110:B:LYS:N	2:110:B:LYS:CA	2:110:B:LYS:C	9	14.91
(1,4)	1:4:A:GLY:C	1:5:A:ALA:N	1:5:A:ALA:CA	1:5:A:ALA:C	6	14.89
(1,218)	2:156:B:PHE:C	2:157:B:SER:N	2:157:B:SER:CA	2:157:B:SER:C	5	14.84
(1,230)	2:162:B:ARG:C	2:163:B:LYS:N	2:163:B:LYS:CA	2:163:B:LYS:C	1	14.75
(1,159)	2:126:B:ILE:C	2:127:B:MET:N	2:127:B:MET:CA	2:127:B:MET:C	10	14.74
(1,9)	1:7:A:LYS:N	1:7:A:LYS:CA	1:7:A:LYS:C	1:8:A:ALA:N	5	14.71
(1,128)	2:111:B:ASP:N	2:111:B:ASP:CA	2:111:B:ASP:C	2:112:B:THR:N	1	14.65
(1,33)	1:20:A:SER:N	1:20:A:SER:CA	1:20:A:SER:C	1:21:A:ALA:N	9	14.63
(1,208)	2:151:B:PHE:N	2:151:B:PHE:CA	2:151:B:PHE:C	2:152:B:GLY:N	2	14.6
(1,44)	1:26:A:PRO:C	1:27:A:LYS:N	1:27:A:LYS:CA	1:27:A:LYS:C	2	14.58
(1,208)	2:151:B:PHE:N	2:151:B:PHE:CA	2:151:B:PHE:C	2:152:B:GLY:N	1	14.55
(1,138)	2:116:B:LYS:N	2:116:B:LYS:CA	2:116:B:LYS:C	2:117:B:GLU:N	6	14.53
(1,37)	1:22:A:GLY:N	1:22:A:GLY:CA	1:22:A:GLY:C	1:23:A:GLY:N	5	14.52
(1,227)	2:161:B:HIS:N	2:161:B:HIS:CA	2:161:B:HIS:C	2:162:B:ARG:N	2	14.49
(1,186)	2:140:B:VAL:N	2:140:B:VAL:CA	2:140:B:VAL:C	2:141:B:TYR:N	9	14.49
(1,162)	2:128:B:THR:N	2:128:B:THR:CA	2:128:B:THR:C	2:129:B:LYS:N	2	14.47
(1,67)	1:38:A:CYS:N	1:38:A:CYS:CA	1:38:A:CYS:C	1:39:A:PRO:N	8	14.43
(1,187)	2:140:B:VAL:C	2:141:B:TYR:N	2:141:B:TYR:CA	2:141:B:TYR:C	5	14.42
(1,98)	2:95:B:PRO:C	2:96:B:LYS:N	2:96:B:LYS:CA	2:96:B:LYS:C	1	14.4
(1,126)	2:110:B:LYS:N	2:110:B:LYS:CA	2:110:B:LYS:C	2:111:B:ASP:N	3	14.36
(1,67)	1:38:A:CYS:N	1:38:A:CYS:CA	1:38:A:CYS:C	1:39:A:PRO:N	1	14.34
(1,247)	2:171:B:ASN:N	2:171:B:ASN:CA	2:171:B:ASN:C	2:172:B:LEU:N	10	14.31
(1,217)	2:156:B:PHE:N	2:156:B:PHE:CA	2:156:B:PHE:C	2:157:B:SER:N	5	14.29
(1,169)	2:131:B:LEU:C	2:132:B:TYR:N	2:132:B:TYR:CA	2:132:B:TYR:C	5	14.22
(1,172)	2:133:B:ASP:N	2:133:B:ASP:CA	2:133:B:ASP:C	2:134:B:GLU:N	10	14.21
(1,133)	2:113:B:TYR:C	2:114:B:THR:N	2:114:B:THR:CA	2:114:B:THR:C	7	14.19
(1,191)	2:142:B:CYS:C	2:143:B:SER:N	2:143:B:SER:CA	2:143:B:SER:C	2	14.11
(1,181)	2:137:B:GLN:C	2:138:B:HIS:N	2:138:B:HIS:CA	2:138:B:HIS:C	1	14.1
(1,39)	1:23:A:GLY:N	1:23:A:GLY:CA	1:23:A:GLY:C	1:24:A:VAL:N	4	14.1
(1,7)	1:6:A:SER:N	1:6:A:SER:CA	1:6:A:SER:C	1:7:A:LYS:N	3	14.09
(1,204)	2:149:B:ASP:N	2:149:B:ASP:CA	2:149:B:ASP:C	2:150:B:LEU:N	4	14.07
(1,6)	1:5:A:ALA:C	1:6:A:SER:N	1:6:A:SER:CA	1:6:A:SER:C	5	14.05
(1,176)	2:135:B:LYS:N	2:135:B:LYS:CA	2:135:B:LYS:C	2:136:B:GLN:N	5	14.02
(1,191)	2:142:B:CYS:C	2:143:B:SER:N	2:143:B:SER:CA	2:143:B:SER:C	5	14.0
(1,249)	2:172:B:LEU:N	2:172:B:LEU:CA	2:172:B:LEU:C	2:173:B:VAL:N	6	13.98
(1,159)	2:126:B:ILE:C	2:127:B:MET:N	2:127:B:MET:CA	2:127:B:MET:C	5	13.96
(1,67)	1:38:A:CYS:N	1:38:A:CYS:CA	1:38:A:CYS:C	1:39:A:PRO:N	10	13.96
(1,15)	1:11:A:SER:N	1:11:A:SER:CA	1:11:A:SER:C	1:12:A:PHE:N	7	13.96
(1,13)	1:10:A:THR:N	1:10:A:THR:CA	1:10:A:THR:C	1:11:A:SER:N	5	13.89
(1,58)	1:33:A:ARG:C	1:34:A:ARG:N	1:34:A:ARG:CA	1:34:A:ARG:C	3	13.88
(1,25)	1:16:A:TRP:N	1:16:A:TRP:CA	1:16:A:TRP:C	1:17:A:ASN:N	4	13.88
(1,219)	2:157:B:SER:N	2:157:B:SER:CA	2:157:B:SER:C	2:158:B:VAL:N	9	13.85
(1,208)	2:151:B:PHE:N	2:151:B:PHE:CA	2:151:B:PHE:C	2:152:B:GLY:N	8	13.82

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,123)	2:108:B:ALA:C	2:109:B:GLN:N	2:109:B:GLN:CA	2:109:B:GLN:C	6	13.78
(1,177)	2:135:B:LYS:C	2:136:B:GLN:N	2:136:B:GLN:CA	2:136:B:GLN:C	2	13.76
(1,132)	2:113:B:TYR:N	2:113:B:TYR:CA	2:113:B:TYR:C	2:114:B:THR:N	9	13.75
(1,208)	2:151:B:PHE:N	2:151:B:PHE:CA	2:151:B:PHE:C	2:152:B:GLY:N	6	13.71
(1,171)	2:132:B:TYR:C	2:133:B:ASP:N	2:133:B:ASP:CA	2:133:B:ASP:C	7	13.7
(1,12)	1:9:A:PRO:C	1:10:A:THR:N	1:10:A:THR:CA	1:10:A:THR:C	9	13.68
(1,127)	2:110:B:LYS:C	2:111:B:ASP:N	2:111:B:ASP:CA	2:111:B:ASP:C	2	13.56
(1,126)	2:110:B:LYS:N	2:110:B:LYS:CA	2:110:B:LYS:C	2:111:B:ASP:N	10	13.56
(1,37)	1:22:A:GLY:N	1:22:A:GLY:CA	1:22:A:GLY:C	1:23:A:GLY:N	1	13.55
(1,247)	2:171:B:ASN:N	2:171:B:ASN:CA	2:171:B:ASN:C	2:172:B:LEU:N	9	13.44
(1,204)	2:149:B:ASP:N	2:149:B:ASP:CA	2:149:B:ASP:C	2:150:B:LEU:N	3	13.44
(1,81)	1:45:A:ARG:C	1:46:A:GLY:N	1:46:A:GLY:CA	1:46:A:GLY:C	5	13.4
(1,77)	1:43:A:ILE:C	1:44:A:CYS:N	1:44:A:CYS:CA	1:44:A:CYS:C	7	13.39
(1,209)	2:151:B:PHE:C	2:152:B:GLY:N	2:152:B:GLY:CA	2:152:B:GLY:C	7	13.36
(1,159)	2:126:B:ILE:C	2:127:B:MET:N	2:127:B:MET:CA	2:127:B:MET:C	9	13.36
(1,74)	1:42:A:CYS:N	1:42:A:CYS:CA	1:42:A:CYS:C	1:43:A:ILE:N	9	13.36
(1,37)	1:22:A:GLY:N	1:22:A:GLY:CA	1:22:A:GLY:C	1:23:A:GLY:N	8	13.36
(1,11)	1:8:A:ALA:N	1:8:A:ALA:CA	1:8:A:ALA:C	1:9:A:PRO:N	8	13.3
(1,183)	2:138:B:HIS:C	2:139:B:ILE:N	2:139:B:ILE:CA	2:139:B:ILE:C	1	13.29
(1,115)	2:104:B:LYS:C	2:105:B:SER:N	2:105:B:SER:CA	2:105:B:SER:C	9	13.28
(1,20)	1:13:A:ALA:C	1:14:A:GLU:N	1:14:A:GLU:CA	1:14:A:GLU:C	1	13.26
(1,120)	2:107:B:GLY:N	2:107:B:GLY:CA	2:107:B:GLY:C	2:108:B:ALA:N	9	13.23
(1,143)	2:118:B:VAL:C	2:119:B:LEU:N	2:119:B:LEU:CA	2:119:B:LEU:C	5	13.2
(1,166)	2:130:B:ARG:N	2:130:B:ARG:CA	2:130:B:ARG:C	2:131:B:LEU:N	6	13.17
(1,138)	2:116:B:LYS:N	2:116:B:LYS:CA	2:116:B:LYS:C	2:117:B:GLU:N	7	13.17
(1,7)	1:6:A:SER:N	1:6:A:SER:CA	1:6:A:SER:C	1:7:A:LYS:N	5	13.15
(1,80)	1:45:A:ARG:N	1:45:A:ARG:CA	1:45:A:ARG:C	1:46:A:GLY:N	9	13.11
(1,62)	1:35:A:ASP:C	1:36:A:SER:N	1:36:A:SER:CA	1:36:A:SER:C	4	13.06
(1,183)	2:138:B:HIS:C	2:139:B:ILE:N	2:139:B:ILE:CA	2:139:B:ILE:C	10	13.04
(1,39)	1:23:A:GLY:N	1:23:A:GLY:CA	1:23:A:GLY:C	1:24:A:VAL:N	2	13.03
(1,249)	2:172:B:LEU:N	2:172:B:LEU:CA	2:172:B:LEU:C	2:173:B:VAL:N	5	13.01
(1,14)	1:10:A:THR:C	1:11:A:SER:N	1:11:A:SER:CA	1:11:A:SER:C	1	13.01
(1,130)	2:112:B:THR:N	2:112:B:THR:CA	2:112:B:THR:C	2:113:B:TYR:N	10	12.99
(1,9)	1:7:A:LYS:N	1:7:A:LYS:CA	1:7:A:LYS:C	1:8:A:ALA:N	7	12.96
(1,115)	2:104:B:LYS:C	2:105:B:SER:N	2:105:B:SER:CA	2:105:B:SER:C	3	12.92
(1,76)	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	1:44:A:CYS:N	5	12.92
(1,138)	2:116:B:LYS:N	2:116:B:LYS:CA	2:116:B:LYS:C	2:117:B:GLU:N	1	12.9
(1,11)	1:8:A:ALA:N	1:8:A:ALA:CA	1:8:A:ALA:C	1:9:A:PRO:N	6	12.87
(1,186)	2:140:B:VAL:N	2:140:B:VAL:CA	2:140:B:VAL:C	2:141:B:TYR:N	4	12.86
(1,46)	1:27:A:LYS:C	1:28:A:ILE:N	1:28:A:ILE:CA	1:28:A:ILE:C	5	12.86
(1,63)	1:36:A:SER:N	1:36:A:SER:CA	1:36:A:SER:C	1:37:A:ASP:N	8	12.84
(1,11)	1:8:A:ALA:N	1:8:A:ALA:CA	1:8:A:ALA:C	1:9:A:PRO:N	7	12.83
(1,128)	2:111:B:ASP:N	2:111:B:ASP:CA	2:111:B:ASP:C	2:112:B:THR:N	4	12.79
(1,73)	1:41:A:ALA:C	1:42:A:CYS:N	1:42:A:CYS:CA	1:42:A:CYS:C	4	12.78
(1,10)	1:7:A:LYS:C	1:8:A:ALA:N	1:8:A:ALA:CA	1:8:A:ALA:C	5	12.78
(1,246)	2:170:B:ARG:C	2:171:B:ASN:N	2:171:B:ASN:CA	2:171:B:ASN:C	10	12.74
(1,139)	2:116:B:LYS:C	2:117:B:GLU:N	2:117:B:GLU:CA	2:117:B:GLU:C	6	12.73
(1,69)	1:39:A:PRO:C	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	5	12.73
(1,129)	2:111:B:ASP:C	2:112:B:THR:N	2:112:B:THR:CA	2:112:B:THR:C	1	12.72
(1,8)	1:6:A:SER:C	1:7:A:LYS:N	1:7:A:LYS:CA	1:7:A:LYS:C	9	12.71
(1,143)	2:118:B:VAL:C	2:119:B:LEU:N	2:119:B:LEU:CA	2:119:B:LEU:C	9	12.68

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,216)	2:155:B:SER:C	2:156:B:PHE:N	2:156:B:PHE:CA	2:156:B:PHE:C	3	12.56
(1,56)	1:32:A:CYS:C	1:33:A:ARG:N	1:33:A:ARG:CA	1:33:A:ARG:C	5	12.55
(1,246)	2:170:B:ARG:C	2:171:B:ASN:N	2:171:B:ASN:CA	2:171:B:ASN:C	4	12.54
(1,203)	2:148:B:GLY:C	2:149:B:ASP:N	2:149:B:ASP:CA	2:149:B:ASP:C	7	12.52
(1,89)	1:49:A:TYR:C	1:50:A:CYS:N	1:50:A:CYS:CA	1:50:A:CYS:C	9	12.51
(1,44)	1:26:A:PRO:C	1:27:A:LYS:N	1:27:A:LYS:CA	1:27:A:LYS:C	8	12.51
(1,127)	2:110:B:LYS:C	2:111:B:ASP:N	2:111:B:ASP:CA	2:111:B:ASP:C	7	12.48
(1,125)	2:109:B:GLN:C	2:110:B:LYS:N	2:110:B:LYS:CA	2:110:B:LYS:C	3	12.48
(1,181)	2:137:B:GLN:C	2:138:B:HIS:N	2:138:B:HIS:CA	2:138:B:HIS:C	10	12.47
(1,130)	2:112:B:THR:N	2:112:B:THR:CA	2:112:B:THR:C	2:113:B:TYR:N	8	12.46
(1,219)	2:157:B:SER:N	2:157:B:SER:CA	2:157:B:SER:C	2:158:B:VAL:N	10	12.44
(1,186)	2:140:B:VAL:N	2:140:B:VAL:CA	2:140:B:VAL:C	2:141:B:TYR:N	3	12.44
(1,132)	2:113:B:TYR:N	2:113:B:TYR:CA	2:113:B:TYR:C	2:114:B:THR:N	7	12.37
(1,120)	2:107:B:GLY:N	2:107:B:GLY:CA	2:107:B:GLY:C	2:108:B:ALA:N	4	12.36
(1,40)	1:23:A:GLY:C	1:24:A:VAL:N	1:24:A:VAL:CA	1:24:A:VAL:C	2	12.35
(1,38)	1:22:A:GLY:C	1:23:A:GLY:N	1:23:A:GLY:CA	1:23:A:GLY:C	5	12.33
(1,239)	2:167:B:MET:N	2:167:B:MET:CA	2:167:B:MET:C	2:168:B:ILE:N	9	12.28
(1,183)	2:138:B:HIS:C	2:139:B:ILE:N	2:139:B:ILE:CA	2:139:B:ILE:C	9	12.26
(1,246)	2:170:B:ARG:C	2:171:B:ASN:N	2:171:B:ASN:CA	2:171:B:ASN:C	6	12.19
(1,127)	2:110:B:LYS:C	2:111:B:ASP:N	2:111:B:ASP:CA	2:111:B:ASP:C	3	12.19
(1,213)	2:154:B:PRO:N	2:154:B:PRO:CA	2:154:B:PRO:C	2:155:B:SER:N	7	12.17
(1,80)	1:45:A:ARG:N	1:45:A:ARG:CA	1:45:A:ARG:C	1:46:A:GLY:N	8	12.17
(1,10)	1:7:A:LYS:C	1:8:A:ALA:N	1:8:A:ALA:CA	1:8:A:ALA:C	8	12.17
(1,16)	1:11:A:SER:C	1:12:A:PHE:N	1:12:A:PHE:CA	1:12:A:PHE:C	1	12.16
(1,3)	1:3:A:SER:N	1:3:A:SER:CA	1:3:A:SER:C	1:4:A:GLY:N	8	12.11
(1,227)	2:161:B:HIS:N	2:161:B:HIS:CA	2:161:B:HIS:C	2:162:B:ARG:N	9	12.08
(1,138)	2:116:B:LYS:N	2:116:B:LYS:CA	2:116:B:LYS:C	2:117:B:GLU:N	8	12.07
(1,89)	1:49:A:TYR:C	1:50:A:CYS:N	1:50:A:CYS:CA	1:50:A:CYS:C	4	12.05
(1,89)	1:49:A:TYR:C	1:50:A:CYS:N	1:50:A:CYS:CA	1:50:A:CYS:C	5	12.05
(1,185)	2:139:B:ILE:C	2:140:B:VAL:N	2:140:B:VAL:CA	2:140:B:VAL:C	9	12.01
(1,119)	2:106:B:VAL:C	2:107:B:GLY:N	2:107:B:GLY:CA	2:107:B:GLY:C	3	11.98
(1,247)	2:171:B:ASN:N	2:171:B:ASN:CA	2:171:B:ASN:C	2:172:B:LEU:N	8	11.94
(1,178)	2:136:B:GLN:N	2:136:B:GLN:CA	2:136:B:GLN:C	2:137:B:GLN:N	8	11.94
(1,187)	2:140:B:VAL:C	2:141:B:TYR:N	2:141:B:TYR:CA	2:141:B:TYR:C	4	11.87
(1,95)	2:93:B:VAL:C	2:94:B:ARG:N	2:94:B:ARG:CA	2:94:B:ARG:C	5	11.84
(1,54)	1:31:A:ARG:C	1:32:A:CYS:N	1:32:A:CYS:CA	1:32:A:CYS:C	5	11.8
(1,219)	2:157:B:SER:N	2:157:B:SER:CA	2:157:B:SER:C	2:158:B:VAL:N	2	11.76
(1,120)	2:107:B:GLY:N	2:107:B:GLY:CA	2:107:B:GLY:C	2:108:B:ALA:N	6	11.69
(1,227)	2:161:B:HIS:N	2:161:B:HIS:CA	2:161:B:HIS:C	2:162:B:ARG:N	1	11.68
(1,140)	2:117:B:GLU:N	2:117:B:GLU:CA	2:117:B:GLU:C	2:118:B:VAL:N	7	11.66
(1,135)	2:114:B:THR:C	2:115:B:MET:N	2:115:B:MET:CA	2:115:B:MET:C	3	11.65
(1,127)	2:110:B:LYS:C	2:111:B:ASP:N	2:111:B:ASP:CA	2:111:B:ASP:C	10	11.65
(1,209)	2:151:B:PHE:C	2:152:B:GLY:N	2:152:B:GLY:CA	2:152:B:GLY:C	1	11.63
(1,5)	1:5:A:ALA:N	1:5:A:ALA:CA	1:5:A:ALA:C	1:6:A:SER:N	6	11.59
(1,49)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	1:30:A:GLN:N	7	11.58
(1,251)	2:173:B:VAL:N	2:173:B:VAL:CA	2:173:B:VAL:C	2:174:B:VAL:N	5	11.54
(1,10)	1:7:A:LYS:C	1:8:A:ALA:N	1:8:A:ALA:CA	1:8:A:ALA:C	1	11.54
(1,138)	2:116:B:LYS:N	2:116:B:LYS:CA	2:116:B:LYS:C	2:117:B:GLU:N	3	11.53
(1,118)	2:106:B:VAL:N	2:106:B:VAL:CA	2:106:B:VAL:C	2:107:B:GLY:N	2	11.52
(1,66)	1:37:A:ASP:C	1:38:A:CYS:N	1:38:A:CYS:CA	1:38:A:CYS:C	9	11.5
(1,21)	1:14:A:GLU:N	1:14:A:GLU:CA	1:14:A:GLU:C	1:15:A:TYR:N	7	11.49

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,21)	1:14:A:GLU:N	1:14:A:GLU:CA	1:14:A:GLU:C	1:15:A:TYR:N	9	11.49
(1,181)	2:137:B:GLN:C	2:138:B:HIS:N	2:138:B:HIS:CA	2:138:B:HIS:C	2	11.47
(1,223)	2:159:B:LYS:N	2:159:B:LYS:CA	2:159:B:LYS:C	2:160:B:GLU:N	2	11.42
(1,61)	1:35:A:ASP:N	1:35:A:ASP:CA	1:35:A:ASP:C	1:36:A:SER:N	9	11.41
(1,250)	2:172:B:LEU:C	2:173:B:VAL:N	2:173:B:VAL:CA	2:173:B:VAL:C	1	11.39
(1,22)	1:14:A:GLU:C	1:15:A:TYR:N	1:15:A:TYR:CA	1:15:A:TYR:C	6	11.39
(1,172)	2:133:B:ASP:N	2:133:B:ASP:CA	2:133:B:ASP:C	2:134:B:GLU:N	6	11.38
(1,160)	2:127:B:MET:N	2:127:B:MET:CA	2:127:B:MET:C	2:128:B:THR:N	5	11.38
(1,78)	1:44:A:CYS:N	1:44:A:CYS:CA	1:44:A:CYS:C	1:45:A:ARG:N	9	11.38
(1,181)	2:137:B:GLN:C	2:138:B:HIS:N	2:138:B:HIS:CA	2:138:B:HIS:C	3	11.37
(1,11)	1:8:A:ALA:N	1:8:A:ALA:CA	1:8:A:ALA:C	1:9:A:PRO:N	10	11.36
(1,237)	2:166:B:THR:N	2:166:B:THR:CA	2:166:B:THR:C	2:167:B:MET:N	7	11.34
(1,56)	1:32:A:CYS:C	1:33:A:ARG:N	1:33:A:ARG:CA	1:33:A:ARG:C	7	11.34
(1,196)	2:145:B:ASP:N	2:145:B:ASP:CA	2:145:B:ASP:C	2:146:B:LEU:N	10	11.3
(1,124)	2:109:B:GLN:N	2:109:B:GLN:CA	2:109:B:GLN:C	2:110:B:LYS:N	1	11.3
(1,13)	1:10:A:THR:N	1:10:A:THR:CA	1:10:A:THR:C	1:11:A:SER:N	9	11.3
(1,57)	1:33:A:ARG:N	1:33:A:ARG:CA	1:33:A:ARG:C	1:34:A:ARG:N	1	11.28
(1,73)	1:41:A:ALA:C	1:42:A:CYS:N	1:42:A:CYS:CA	1:42:A:CYS:C	7	11.25
(1,213)	2:154:B:PRO:N	2:154:B:PRO:CA	2:154:B:PRO:C	2:155:B:SER:N	5	11.23
(1,62)	1:35:A:ASP:C	1:36:A:SER:N	1:36:A:SER:CA	1:36:A:SER:C	3	11.22
(1,77)	1:43:A:ILE:C	1:44:A:CYS:N	1:44:A:CYS:CA	1:44:A:CYS:C	6	11.19
(1,70)	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	1:41:A:ALA:N	10	11.16
(1,227)	2:161:B:HIS:N	2:161:B:HIS:CA	2:161:B:HIS:C	2:162:B:ARG:N	4	11.14
(1,34)	1:20:A:SER:C	1:21:A:ALA:N	1:21:A:ALA:CA	1:21:A:ALA:C	2	11.14
(1,209)	2:151:B:PHE:C	2:152:B:GLY:N	2:152:B:GLY:CA	2:152:B:GLY:C	4	11.12
(1,223)	2:159:B:LYS:N	2:159:B:LYS:CA	2:159:B:LYS:C	2:160:B:GLU:N	3	11.06
(1,83)	1:46:A:GLY:C	1:47:A:ASN:N	1:47:A:ASN:CA	1:47:A:ASN:C	1	11.05
(1,203)	2:148:B:GLY:C	2:149:B:ASP:N	2:149:B:ASP:CA	2:149:B:ASP:C	9	11.04
(1,184)	2:139:B:ILE:N	2:139:B:ILE:CA	2:139:B:ILE:C	2:140:B:VAL:N	6	11.04
(1,31)	1:19:A:LEU:N	1:19:A:LEU:CA	1:19:A:LEU:C	1:20:A:SER:N	2	11.04
(1,118)	2:106:B:VAL:N	2:106:B:VAL:CA	2:106:B:VAL:C	2:107:B:GLY:N	4	11.02
(1,11)	1:8:A:ALA:N	1:8:A:ALA:CA	1:8:A:ALA:C	1:9:A:PRO:N	4	11.02
(1,163)	2:128:B:THR:C	2:129:B:LYS:N	2:129:B:LYS:CA	2:129:B:LYS:C	7	11.01
(1,170)	2:132:B:TYR:N	2:132:B:TYR:CA	2:132:B:TYR:C	2:133:B:ASP:N	9	10.99
(1,126)	2:110:B:LYS:N	2:110:B:LYS:CA	2:110:B:LYS:C	2:111:B:ASP:N	9	10.97
(1,21)	1:14:A:GLU:N	1:14:A:GLU:CA	1:14:A:GLU:C	1:15:A:TYR:N	2	10.93
(1,11)	1:8:A:ALA:N	1:8:A:ALA:CA	1:8:A:ALA:C	1:9:A:PRO:N	1	10.92
(1,6)	1:5:A:ALA:C	1:6:A:SER:N	1:6:A:SER:CA	1:6:A:SER:C	7	10.89
(1,43)	1:25:A:CYS:N	1:25:A:CYS:CA	1:25:A:CYS:C	1:26:A:PRO:N	5	10.88
(1,199)	2:146:B:LEU:C	2:147:B:LEU:N	2:147:B:LEU:CA	2:147:B:LEU:C	9	10.87
(1,143)	2:118:B:VAL:C	2:119:B:LEU:N	2:119:B:LEU:CA	2:119:B:LEU:C	7	10.85
(1,139)	2:116:B:LYS:C	2:117:B:GLU:N	2:117:B:GLU:CA	2:117:B:GLU:C	8	10.84
(1,25)	1:16:A:TRP:N	1:16:A:TRP:CA	1:16:A:TRP:C	1:17:A:ASN:N	9	10.84
(1,227)	2:161:B:HIS:N	2:161:B:HIS:CA	2:161:B:HIS:C	2:162:B:ARG:N	5	10.82
(1,162)	2:128:B:THR:N	2:128:B:THR:CA	2:128:B:THR:C	2:129:B:LYS:N	4	10.8
(1,218)	2:156:B:PHE:C	2:157:B:SER:N	2:157:B:SER:CA	2:157:B:SER:C	9	10.78
(1,57)	1:33:A:ARG:N	1:33:A:ARG:CA	1:33:A:ARG:C	1:34:A:ARG:N	2	10.76
(1,64)	1:36:A:SER:C	1:37:A:ASP:N	1:37:A:ASP:CA	1:37:A:ASP:C	2	10.73
(1,37)	1:22:A:GLY:N	1:22:A:GLY:CA	1:22:A:GLY:C	1:23:A:GLY:N	3	10.73
(1,177)	2:135:B:LYS:C	2:136:B:GLN:N	2:136:B:GLN:CA	2:136:B:GLN:C	8	10.72
(1,46)	1:27:A:LYS:C	1:28:A:ILE:N	1:28:A:ILE:CA	1:28:A:ILE:C	9	10.69

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,21)	1:14:A:GLU:N	1:14:A:GLU:CA	1:14:A:GLU:C	1:15:A:TYR:N	3	10.67
(1,23)	1:15:A:TYR:N	1:15:A:TYR:CA	1:15:A:TYR:C	1:16:A:TRP:N	9	10.64
(1,1)	1:1:A:SER:N	1:1:A:SER:CA	1:1:A:SER:C	1:2:A:GLY:N	5	10.64
(1,70)	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	1:41:A:ALA:N	6	10.63
(1,6)	1:5:A:ALA:C	1:6:A:SER:N	1:6:A:SER:CA	1:6:A:SER:C	2	10.61
(1,173)	2:133:B:ASP:C	2:134:B:GLU:N	2:134:B:GLU:CA	2:134:B:GLU:C	1	10.58
(1,1)	1:1:A:SER:N	1:1:A:SER:CA	1:1:A:SER:C	1:2:A:GLY:N	10	10.57
(1,246)	2:170:B:ARG:C	2:171:B:ASN:N	2:171:B:ASN:CA	2:171:B:ASN:C	8	10.55
(1,126)	2:110:B:LYS:N	2:110:B:LYS:CA	2:110:B:LYS:C	2:111:B:ASP:N	4	10.5
(1,58)	1:33:A:ARG:C	1:34:A:ARG:N	1:34:A:ARG:CA	1:34:A:ARG:C	7	10.49
(1,223)	2:159:B:LYS:N	2:159:B:LYS:CA	2:159:B:LYS:C	2:160:B:GLU:N	5	10.47
(1,78)	1:44:A:CYS:N	1:44:A:CYS:CA	1:44:A:CYS:C	1:45:A:ARG:N	6	10.45
(1,170)	2:132:B:TYR:N	2:132:B:TYR:CA	2:132:B:TYR:C	2:133:B:ASP:N	7	10.44
(1,125)	2:109:B:GLN:C	2:110:B:LYS:N	2:110:B:LYS:CA	2:110:B:LYS:C	7	10.4
(1,168)	2:131:B:LEU:N	2:131:B:LEU:CA	2:131:B:LEU:C	2:132:B:TYR:N	1	10.39
(1,25)	1:16:A:TRP:N	1:16:A:TRP:CA	1:16:A:TRP:C	1:17:A:ASN:N	1	10.35
(1,115)	2:104:B:LYS:C	2:105:B:SER:N	2:105:B:SER:CA	2:105:B:SER:C	1	10.34
(1,41)	1:24:A:VAL:N	1:24:A:VAL:CA	1:24:A:VAL:C	1:25:A:CYS:N	1	10.34
(1,217)	2:156:B:PHE:N	2:156:B:PHE:CA	2:156:B:PHE:C	2:157:B:SER:N	6	10.32
(1,12)	1:9:A:PRO:C	1:10:A:THR:N	1:10:A:THR:CA	1:10:A:THR:C	3	10.27
(1,177)	2:135:B:LYS:C	2:136:B:GLN:N	2:136:B:GLN:CA	2:136:B:GLN:C	7	10.26
(1,71)	1:40:A:GLY:C	1:41:A:ALA:N	1:41:A:ALA:CA	1:41:A:ALA:C	6	10.25
(1,230)	2:162:B:ARG:C	2:163:B:LYS:N	2:163:B:LYS:CA	2:163:B:LYS:C	6	10.24
(1,44)	1:26:A:PRO:C	1:27:A:LYS:N	1:27:A:LYS:CA	1:27:A:LYS:C	1	10.23
(1,227)	2:161:B:HIS:N	2:161:B:HIS:CA	2:161:B:HIS:C	2:162:B:ARG:N	3	10.2
(1,138)	2:116:B:LYS:N	2:116:B:LYS:CA	2:116:B:LYS:C	2:117:B:GLU:N	5	10.2
(1,71)	1:40:A:GLY:C	1:41:A:ALA:N	1:41:A:ALA:CA	1:41:A:ALA:C	1	10.2
(1,227)	2:161:B:HIS:N	2:161:B:HIS:CA	2:161:B:HIS:C	2:162:B:ARG:N	7	10.17
(1,68)	1:39:A:PRO:N	1:39:A:PRO:CA	1:39:A:PRO:C	1:40:A:GLY:N	6	10.13
(1,15)	1:11:A:SER:N	1:11:A:SER:CA	1:11:A:SER:C	1:12:A:PHE:N	9	10.13
(1,243)	2:169:B:TYR:N	2:169:B:TYR:CA	2:169:B:TYR:C	2:170:B:ARG:N	2	10.1
(1,58)	1:33:A:ARG:C	1:34:A:ARG:N	1:34:A:ARG:CA	1:34:A:ARG:C	6	10.1
(1,85)	1:47:A:ASN:C	1:48:A:GLY:N	1:48:A:GLY:CA	1:48:A:GLY:C	5	10.08
(1,39)	1:23:A:GLY:N	1:23:A:GLY:CA	1:23:A:GLY:C	1:24:A:VAL:N	1	10.04
(1,17)	1:12:A:PHE:N	1:12:A:PHE:CA	1:12:A:PHE:C	1:13:A:ALA:N	6	10.04
(1,53)	1:31:A:ARG:N	1:31:A:ARG:CA	1:31:A:ARG:C	1:32:A:CYS:N	9	10.03
(1,119)	2:106:B:VAL:C	2:107:B:GLY:N	2:107:B:GLY:CA	2:107:B:GLY:C	10	9.98
(1,187)	2:140:B:VAL:C	2:141:B:TYR:N	2:141:B:TYR:CA	2:141:B:TYR:C	10	9.94
(1,5)	1:5:A:ALA:N	1:5:A:ALA:CA	1:5:A:ALA:C	1:6:A:SER:N	5	9.93
(1,162)	2:128:B:THR:N	2:128:B:THR:CA	2:128:B:THR:C	2:129:B:LYS:N	1	9.92
(1,12)	1:9:A:PRO:C	1:10:A:THR:N	1:10:A:THR:CA	1:10:A:THR:C	2	9.92
(1,95)	2:93:B:VAL:C	2:94:B:ARG:N	2:94:B:ARG:CA	2:94:B:ARG:C	6	9.91
(1,208)	2:151:B:PHE:N	2:151:B:PHE:CA	2:151:B:PHE:C	2:152:B:GLY:N	5	9.9
(1,62)	1:35:A:ASP:C	1:36:A:SER:N	1:36:A:SER:CA	1:36:A:SER:C	10	9.9
(1,187)	2:140:B:VAL:C	2:141:B:TYR:N	2:141:B:TYR:CA	2:141:B:TYR:C	6	9.87
(1,249)	2:172:B:LEU:N	2:172:B:LEU:CA	2:172:B:LEU:C	2:173:B:VAL:N	3	9.86
(1,42)	1:24:A:VAL:C	1:25:A:CYS:N	1:25:A:CYS:CA	1:25:A:CYS:C	4	9.86
(1,216)	2:155:B:SER:C	2:156:B:PHE:N	2:156:B:PHE:CA	2:156:B:PHE:C	10	9.84
(1,80)	1:45:A:ARG:N	1:45:A:ARG:CA	1:45:A:ARG:C	1:46:A:GLY:N	2	9.84
(1,31)	1:19:A:LEU:N	1:19:A:LEU:CA	1:19:A:LEU:C	1:20:A:SER:N	7	9.83
(1,188)	2:141:B:TYR:N	2:141:B:TYR:CA	2:141:B:TYR:C	2:142:B:CYS:N	4	9.82

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,109)	2:101:B:LYS:C	2:102:B:LEU:N	2:102:B:LEU:CA	2:102:B:LEU:C	7	9.81
(1,83)	1:46:A:GLY:C	1:47:A:ASN:N	1:47:A:ASN:CA	1:47:A:ASN:C	3	9.81
(1,54)	1:31:A:ARG:C	1:32:A:CYS:N	1:32:A:CYS:CA	1:32:A:CYS:C	4	9.81
(1,196)	2:145:B:ASP:N	2:145:B:ASP:CA	2:145:B:ASP:C	2:146:B:LEU:N	2	9.79
(1,50)	1:29:A:LEU:C	1:30:A:GLN:N	1:30:A:GLN:CA	1:30:A:GLN:C	5	9.79
(1,196)	2:145:B:ASP:N	2:145:B:ASP:CA	2:145:B:ASP:C	2:146:B:LEU:N	8	9.78
(1,6)	1:5:A:ALA:C	1:6:A:SER:N	1:6:A:SER:CA	1:6:A:SER:C	3	9.75
(1,195)	2:144:B:ASN:C	2:145:B:ASP:N	2:145:B:ASP:CA	2:145:B:ASP:C	10	9.74
(1,139)	2:116:B:LYS:C	2:117:B:GLU:N	2:117:B:GLU:CA	2:117:B:GLU:C	1	9.74
(1,220)	2:157:B:SER:C	2:158:B:VAL:N	2:158:B:VAL:CA	2:158:B:VAL:C	10	9.73
(1,148)	2:121:B:TYR:N	2:121:B:TYR:CA	2:121:B:TYR:C	2:122:B:LEU:N	4	9.73
(1,244)	2:169:B:TYR:C	2:170:B:ARG:N	2:170:B:ARG:CA	2:170:B:ARG:C	3	9.72
(1,188)	2:141:B:TYR:N	2:141:B:TYR:CA	2:141:B:TYR:C	2:142:B:CYS:N	3	9.72
(1,126)	2:110:B:LYS:N	2:110:B:LYS:CA	2:110:B:LYS:C	2:111:B:ASP:N	2	9.7
(1,188)	2:141:B:TYR:N	2:141:B:TYR:CA	2:141:B:TYR:C	2:142:B:CYS:N	6	9.69
(1,251)	2:173:B:VAL:N	2:173:B:VAL:CA	2:173:B:VAL:C	2:174:B:VAL:N	10	9.68
(1,73)	1:41:A:ALA:C	1:42:A:CYS:N	1:42:A:CYS:CA	1:42:A:CYS:C	9	9.68
(1,169)	2:131:B:LEU:C	2:132:B:TYR:N	2:132:B:TYR:CA	2:132:B:TYR:C	8	9.67
(1,11)	1:8:A:ALA:N	1:8:A:ALA:CA	1:8:A:ALA:C	1:9:A:PRO:N	5	9.66
(1,189)	2:141:B:TYR:C	2:142:B:CYS:N	2:142:B:CYS:CA	2:142:B:CYS:C	8	9.64
(1,32)	1:19:A:LEU:C	1:20:A:SER:N	1:20:A:SER:CA	1:20:A:SER:C	6	9.62
(1,69)	1:39:A:PRO:C	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	2	9.59
(1,251)	2:173:B:VAL:N	2:173:B:VAL:CA	2:173:B:VAL:C	2:174:B:VAL:N	7	9.58
(1,166)	2:130:B:ARG:N	2:130:B:ARG:CA	2:130:B:ARG:C	2:131:B:LEU:N	9	9.58
(1,175)	2:134:B:GLU:C	2:135:B:LYS:N	2:135:B:LYS:CA	2:135:B:LYS:C	10	9.57
(1,151)	2:122:B:LEU:C	2:123:B:GLY:N	2:123:B:GLY:CA	2:123:B:GLY:C	9	9.54
(1,169)	2:131:B:LEU:C	2:132:B:TYR:N	2:132:B:TYR:CA	2:132:B:TYR:C	10	9.53
(1,125)	2:109:B:GLN:C	2:110:B:LYS:N	2:110:B:LYS:CA	2:110:B:LYS:C	1	9.52
(1,22)	1:14:A:GLU:C	1:15:A:TYR:N	1:15:A:TYR:CA	1:15:A:TYR:C	10	9.52
(1,109)	2:101:B:LYS:C	2:102:B:LEU:N	2:102:B:LEU:CA	2:102:B:LEU:C	4	9.5
(1,237)	2:166:B:THR:N	2:166:B:THR:CA	2:166:B:THR:C	2:167:B:MET:N	6	9.48
(1,216)	2:155:B:SER:C	2:156:B:PHE:N	2:156:B:PHE:CA	2:156:B:PHE:C	9	9.48
(1,118)	2:106:B:VAL:N	2:106:B:VAL:CA	2:106:B:VAL:C	2:107:B:GLY:N	3	9.47
(1,84)	1:47:A:ASN:N	1:47:A:ASN:CA	1:47:A:ASN:C	1:48:A:GLY:N	6	9.47
(1,29)	1:18:A:LEU:N	1:18:A:LEU:CA	1:18:A:LEU:C	1:19:A:LEU:N	4	9.42
(1,9)	1:7:A:LYS:N	1:7:A:LYS:CA	1:7:A:LYS:C	1:8:A:ALA:N	3	9.39
(1,83)	1:46:A:GLY:C	1:47:A:ASN:N	1:47:A:ASN:CA	1:47:A:ASN:C	6	9.37
(1,44)	1:26:A:PRO:C	1:27:A:LYS:N	1:27:A:LYS:CA	1:27:A:LYS:C	10	9.34
(1,186)	2:140:B:VAL:N	2:140:B:VAL:CA	2:140:B:VAL:C	2:141:B:TYR:N	8	9.31
(1,6)	1:5:A:ALA:C	1:6:A:SER:N	1:6:A:SER:CA	1:6:A:SER:C	9	9.31
(1,142)	2:118:B:VAL:N	2:118:B:VAL:CA	2:118:B:VAL:C	2:119:B:LEU:N	7	9.29
(1,228)	2:161:B:HIS:C	2:162:B:ARG:N	2:162:B:ARG:CA	2:162:B:ARG:C	5	9.26
(1,103)	2:98:B:LEU:C	2:99:B:LEU:N	2:99:B:LEU:CA	2:99:B:LEU:C	2	9.26
(1,135)	2:114:B:THR:C	2:115:B:MET:N	2:115:B:MET:CA	2:115:B:MET:C	10	9.25
(1,69)	1:39:A:PRO:C	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	1	9.22
(1,120)	2:107:B:GLY:N	2:107:B:GLY:CA	2:107:B:GLY:C	2:108:B:ALA:N	3	9.21
(1,160)	2:127:B:MET:N	2:127:B:MET:CA	2:127:B:MET:C	2:128:B:THR:N	9	9.2
(1,118)	2:106:B:VAL:N	2:106:B:VAL:CA	2:106:B:VAL:C	2:107:B:GLY:N	8	9.18
(1,96)	2:94:B:ARG:N	2:94:B:ARG:CA	2:94:B:ARG:C	2:95:B:PRO:N	6	9.17
(1,216)	2:155:B:SER:C	2:156:B:PHE:N	2:156:B:PHE:CA	2:156:B:PHE:C	4	9.16
(1,69)	1:39:A:PRO:C	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	4	9.13

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,200)	2:147:B:LEU:N	2:147:B:LEU:CA	2:147:B:LEU:C	2:148:B:GLY:N	6	9.12
(1,7)	1:6:A:SER:N	1:6:A:SER:CA	1:6:A:SER:C	1:7:A:LYS:N	2	9.12
(1,225)	2:160:B:GLU:N	2:160:B:GLU:CA	2:160:B:GLU:C	2:161:B:HIS:N	7	9.1
(1,96)	2:94:B:ARG:N	2:94:B:ARG:CA	2:94:B:ARG:C	2:95:B:PRO:N	9	9.09
(1,71)	1:40:A:GLY:C	1:41:A:ALA:N	1:41:A:ALA:CA	1:41:A:ALA:C	3	9.07
(1,69)	1:39:A:PRO:C	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	3	9.05
(1,44)	1:26:A:PRO:C	1:27:A:LYS:N	1:27:A:LYS:CA	1:27:A:LYS:C	4	9.05
(1,81)	1:45:A:ARG:C	1:46:A:GLY:N	1:46:A:GLY:CA	1:46:A:GLY:C	8	9.04
(1,227)	2:161:B:HIS:N	2:161:B:HIS:CA	2:161:B:HIS:C	2:162:B:ARG:N	8	9.01
(1,237)	2:166:B:THR:N	2:166:B:THR:CA	2:166:B:THR:C	2:167:B:MET:N	5	9.0
(1,208)	2:151:B:PHE:N	2:151:B:PHE:CA	2:151:B:PHE:C	2:152:B:GLY:N	9	8.99
(1,175)	2:134:B:GLU:C	2:135:B:LYS:N	2:135:B:LYS:CA	2:135:B:LYS:C	5	8.99
(1,89)	1:49:A:TYR:C	1:50:A:CYS:N	1:50:A:CYS:CA	1:50:A:CYS:C	1	8.99
(1,124)	2:109:B:GLN:N	2:109:B:GLN:CA	2:109:B:GLN:C	2:110:B:LYS:N	3	8.96
(1,1)	1:1:A:SER:N	1:1:A:SER:CA	1:1:A:SER:C	1:2:A:GLY:N	3	8.93
(1,11)	1:8:A:ALA:N	1:8:A:ALA:CA	1:8:A:ALA:C	1:9:A:PRO:N	2	8.91
(1,84)	1:47:A:ASN:N	1:47:A:ASN:CA	1:47:A:ASN:C	1:48:A:GLY:N	3	8.9
(1,120)	2:107:B:GLY:N	2:107:B:GLY:CA	2:107:B:GLY:C	2:108:B:ALA:N	10	8.87
(1,81)	1:45:A:ARG:C	1:46:A:GLY:N	1:46:A:GLY:CA	1:46:A:GLY:C	7	8.86
(1,223)	2:159:B:LYS:N	2:159:B:LYS:CA	2:159:B:LYS:C	2:160:B:GLU:N	10	8.85
(1,173)	2:133:B:ASP:C	2:134:B:GLU:N	2:134:B:GLU:CA	2:134:B:GLU:C	3	8.85
(1,109)	2:101:B:LYS:C	2:102:B:LEU:N	2:102:B:LEU:CA	2:102:B:LEU:C	1	8.85
(1,237)	2:166:B:THR:N	2:166:B:THR:CA	2:166:B:THR:C	2:167:B:MET:N	10	8.83
(1,31)	1:19:A:LEU:N	1:19:A:LEU:CA	1:19:A:LEU:C	1:20:A:SER:N	4	8.83
(1,179)	2:136:B:GLN:C	2:137:B:GLN:N	2:137:B:GLN:CA	2:137:B:GLN:C	8	8.81
(1,152)	2:123:B:GLY:N	2:123:B:GLY:CA	2:123:B:GLY:C	2:124:B:GLN:N	3	8.81
(1,80)	1:45:A:ARG:N	1:45:A:ARG:CA	1:45:A:ARG:C	1:46:A:GLY:N	1	8.8
(1,61)	1:35:A:ASP:N	1:35:A:ASP:CA	1:35:A:ASP:C	1:36:A:SER:N	4	8.8
(1,229)	2:162:B:ARG:N	2:162:B:ARG:CA	2:162:B:ARG:C	2:163:B:LYS:N	1	8.79
(1,169)	2:131:B:LEU:C	2:132:B:TYR:N	2:132:B:TYR:CA	2:132:B:TYR:C	3	8.79
(1,109)	2:101:B:LYS:C	2:102:B:LEU:N	2:102:B:LEU:CA	2:102:B:LEU:C	10	8.79
(1,230)	2:162:B:ARG:C	2:163:B:LYS:N	2:163:B:LYS:CA	2:163:B:LYS:C	9	8.75
(1,51)	1:30:A:GLN:N	1:30:A:GLN:CA	1:30:A:GLN:C	1:31:A:ARG:N	2	8.74
(1,194)	2:144:B:ASN:N	2:144:B:ASN:CA	2:144:B:ASN:C	2:145:B:ASP:N	7	8.73
(1,77)	1:43:A:ILE:C	1:44:A:CYS:N	1:44:A:CYS:CA	1:44:A:CYS:C	5	8.69
(1,177)	2:135:B:LYS:C	2:136:B:GLN:N	2:136:B:GLN:CA	2:136:B:GLN:C	9	8.67
(1,6)	1:5:A:ALA:C	1:6:A:SER:N	1:6:A:SER:CA	1:6:A:SER:C	6	8.66
(1,167)	2:130:B:ARG:C	2:131:B:LEU:N	2:131:B:LEU:CA	2:131:B:LEU:C	3	8.64
(1,231)	2:163:B:LYS:N	2:163:B:LYS:CA	2:163:B:LYS:C	2:164:B:ILE:N	6	8.63
(1,148)	2:121:B:TYR:N	2:121:B:TYR:CA	2:121:B:TYR:C	2:122:B:LEU:N	2	8.63
(1,109)	2:101:B:LYS:C	2:102:B:LEU:N	2:102:B:LEU:CA	2:102:B:LEU:C	8	8.63
(1,39)	1:23:A:GLY:N	1:23:A:GLY:CA	1:23:A:GLY:C	1:24:A:VAL:N	6	8.6
(1,26)	1:16:A:TRP:C	1:17:A:ASN:N	1:17:A:ASN:CA	1:17:A:ASN:C	10	8.59
(1,84)	1:47:A:ASN:N	1:47:A:ASN:CA	1:47:A:ASN:C	1:48:A:GLY:N	2	8.58
(1,245)	2:170:B:ARG:N	2:170:B:ARG:CA	2:170:B:ARG:C	2:171:B:ASN:N	2	8.57
(1,139)	2:116:B:LYS:C	2:117:B:GLU:N	2:117:B:GLU:CA	2:117:B:GLU:C	4	8.56
(1,127)	2:110:B:LYS:C	2:111:B:ASP:N	2:111:B:ASP:CA	2:111:B:ASP:C	6	8.56
(1,183)	2:138:B:HIS:C	2:139:B:ILE:N	2:139:B:ILE:CA	2:139:B:ILE:C	4	8.55
(1,181)	2:137:B:GLN:C	2:138:B:HIS:N	2:138:B:HIS:CA	2:138:B:HIS:C	8	8.55
(1,72)	1:41:A:ALA:N	1:41:A:ALA:CA	1:41:A:ALA:C	1:42:A:CYS:N	4	8.55
(1,82)	1:46:A:GLY:N	1:46:A:GLY:CA	1:46:A:GLY:C	1:47:A:ASN:N	2	8.54

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,8)	1:6:A:SER:C	1:7:A:LYS:N	1:7:A:LYS:CA	1:7:A:LYS:C	8	8.5
(1,11)	1:8:A:ALA:N	1:8:A:ALA:CA	1:8:A:ALA:C	1:9:A:PRO:N	3	8.49
(1,180)	2:137:B:GLN:N	2:137:B:GLN:CA	2:137:B:GLN:C	2:138:B:HIS:N	6	8.48
(1,223)	2:159:B:LYS:N	2:159:B:LYS:CA	2:159:B:LYS:C	2:160:B:GLU:N	9	8.45
(1,39)	1:23:A:GLY:N	1:23:A:GLY:CA	1:23:A:GLY:C	1:24:A:VAL:N	8	8.43
(1,84)	1:47:A:ASN:N	1:47:A:ASN:CA	1:47:A:ASN:C	1:48:A:GLY:N	4	8.41
(1,74)	1:42:A:CYS:N	1:42:A:CYS:CA	1:42:A:CYS:C	1:43:A:ILE:N	10	8.41
(1,199)	2:146:B:LEU:C	2:147:B:LEU:N	2:147:B:LEU:CA	2:147:B:LEU:C	7	8.39
(1,59)	1:34:A:ARG:N	1:34:A:ARG:CA	1:34:A:ARG:C	1:35:A:ASP:N	7	8.38
(1,72)	1:41:A:ALA:N	1:41:A:ALA:CA	1:41:A:ALA:C	1:42:A:CYS:N	10	8.37
(1,170)	2:132:B:TYR:N	2:132:B:TYR:CA	2:132:B:TYR:C	2:133:B:ASP:N	1	8.36
(1,167)	2:130:B:ARG:C	2:131:B:LEU:N	2:131:B:LEU:CA	2:131:B:LEU:C	2	8.32
(1,78)	1:44:A:CYS:N	1:44:A:CYS:CA	1:44:A:CYS:C	1:45:A:ARG:N	8	8.32
(1,42)	1:24:A:VAL:C	1:25:A:CYS:N	1:25:A:CYS:CA	1:25:A:CYS:C	8	8.32
(1,181)	2:137:B:GLN:C	2:138:B:HIS:N	2:138:B:HIS:CA	2:138:B:HIS:C	4	8.31
(1,196)	2:145:B:ASP:N	2:145:B:ASP:CA	2:145:B:ASP:C	2:146:B:LEU:N	6	8.28
(1,33)	1:20:A:SER:N	1:20:A:SER:CA	1:20:A:SER:C	1:21:A:ALA:N	3	8.28
(1,49)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	1:30:A:GLN:N	3	8.26
(1,89)	1:49:A:TYR:C	1:50:A:CYS:N	1:50:A:CYS:CA	1:50:A:CYS:C	2	8.23
(1,82)	1:46:A:GLY:N	1:46:A:GLY:CA	1:46:A:GLY:C	1:47:A:ASN:N	7	8.2
(1,9)	1:7:A:LYS:N	1:7:A:LYS:CA	1:7:A:LYS:C	1:8:A:ALA:N	9	8.2
(1,223)	2:159:B:LYS:N	2:159:B:LYS:CA	2:159:B:LYS:C	2:160:B:GLU:N	7	8.19
(1,102)	2:98:B:LEU:N	2:98:B:LEU:CA	2:98:B:LEU:C	2:99:B:LEU:N	2	8.14
(1,224)	2:159:B:LYS:C	2:160:B:GLU:N	2:160:B:GLU:CA	2:160:B:GLU:C	10	8.13
(1,124)	2:109:B:GLN:N	2:109:B:GLN:CA	2:109:B:GLN:C	2:110:B:LYS:N	7	8.12
(1,152)	2:123:B:GLY:N	2:123:B:GLY:CA	2:123:B:GLY:C	2:124:B:GLN:N	2	8.11
(1,65)	1:37:A:ASP:N	1:37:A:ASP:CA	1:37:A:ASP:C	1:38:A:CYS:N	10	8.09
(1,16)	1:11:A:SER:C	1:12:A:PHE:N	1:12:A:PHE:CA	1:12:A:PHE:C	10	8.09
(1,38)	1:22:A:GLY:C	1:23:A:GLY:N	1:23:A:GLY:CA	1:23:A:GLY:C	7	8.07
(1,87)	1:48:A:GLY:C	1:49:A:TYR:N	1:49:A:TYR:CA	1:49:A:TYR:C	7	8.06
(1,120)	2:107:B:GLY:N	2:107:B:GLY:CA	2:107:B:GLY:C	2:108:B:ALA:N	1	8.05
(1,216)	2:155:B:SER:C	2:156:B:PHE:N	2:156:B:PHE:CA	2:156:B:PHE:C	8	8.04
(1,82)	1:46:A:GLY:N	1:46:A:GLY:CA	1:46:A:GLY:C	1:47:A:ASN:N	4	8.04
(1,27)	1:17:A:ASN:N	1:17:A:ASN:CA	1:17:A:ASN:C	1:18:A:LEU:N	8	8.04
(1,2)	1:2:A:GLY:C	1:3:A:SER:N	1:3:A:SER:CA	1:3:A:SER:C	10	8.04
(1,231)	2:163:B:LYS:N	2:163:B:LYS:CA	2:163:B:LYS:C	2:164:B:ILE:N	2	8.02
(1,220)	2:157:B:SER:C	2:158:B:VAL:N	2:158:B:VAL:CA	2:158:B:VAL:C	2	8.01
(1,115)	2:104:B:LYS:C	2:105:B:SER:N	2:105:B:SER:CA	2:105:B:SER:C	6	8.01
(1,86)	1:48:A:GLY:N	1:48:A:GLY:CA	1:48:A:GLY:C	1:49:A:TYR:N	9	8.0
(1,7)	1:6:A:SER:N	1:6:A:SER:CA	1:6:A:SER:C	1:7:A:LYS:N	10	7.99
(1,56)	1:32:A:CYS:C	1:33:A:ARG:N	1:33:A:ARG:CA	1:33:A:ARG:C	4	7.98
(1,130)	2:112:B:THR:N	2:112:B:THR:CA	2:112:B:THR:C	2:113:B:TYR:N	4	7.94
(1,79)	1:44:A:CYS:C	1:45:A:ARG:N	1:45:A:ARG:CA	1:45:A:ARG:C	7	7.94
(1,15)	1:11:A:SER:N	1:11:A:SER:CA	1:11:A:SER:C	1:12:A:PHE:N	6	7.93
(1,218)	2:156:B:PHE:C	2:157:B:SER:N	2:157:B:SER:CA	2:157:B:SER:C	2	7.92
(1,123)	2:108:B:ALA:C	2:109:B:GLN:N	2:109:B:GLN:CA	2:109:B:GLN:C	4	7.91
(1,221)	2:158:B:VAL:N	2:158:B:VAL:CA	2:158:B:VAL:C	2:159:B:LYS:N	7	7.9
(1,235)	2:165:B:TYR:N	2:165:B:TYR:CA	2:165:B:TYR:C	2:166:B:THR:N	2	7.88
(1,226)	2:160:B:GLU:C	2:161:B:HIS:N	2:161:B:HIS:CA	2:161:B:HIS:C	10	7.84
(1,208)	2:151:B:PHE:N	2:151:B:PHE:CA	2:151:B:PHE:C	2:152:B:GLY:N	10	7.84
(1,115)	2:104:B:LYS:C	2:105:B:SER:N	2:105:B:SER:CA	2:105:B:SER:C	4	7.83

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,186)	2:140:B:VAL:N	2:140:B:VAL:CA	2:140:B:VAL:C	2:141:B:TYR:N	5	7.82
(1,7)	1:6:A:SER:N	1:6:A:SER:CA	1:6:A:SER:C	1:7:A:LYS:N	4	7.82
(1,186)	2:140:B:VAL:N	2:140:B:VAL:CA	2:140:B:VAL:C	2:141:B:TYR:N	2	7.81
(1,152)	2:123:B:GLY:N	2:123:B:GLY:CA	2:123:B:GLY:C	2:124:B:GLN:N	5	7.79
(1,14)	1:10:A:THR:C	1:11:A:SER:N	1:11:A:SER:CA	1:11:A:SER:C	4	7.78
(1,18)	1:12:A:PHE:C	1:13:A:ALA:N	1:13:A:ALA:CA	1:13:A:ALA:C	6	7.77
(1,190)	2:142:B:CYS:N	2:142:B:CYS:CA	2:142:B:CYS:C	2:143:B:SER:N	8	7.76
(1,70)	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	1:41:A:ALA:N	5	7.76
(1,16)	1:11:A:SER:C	1:12:A:PHE:N	1:12:A:PHE:CA	1:12:A:PHE:C	7	7.76
(1,21)	1:14:A:GLU:N	1:14:A:GLU:CA	1:14:A:GLU:C	1:15:A:TYR:N	1	7.75
(1,191)	2:142:B:CYS:C	2:143:B:SER:N	2:143:B:SER:CA	2:143:B:SER:C	10	7.74
(1,79)	1:44:A:CYS:C	1:45:A:ARG:N	1:45:A:ARG:CA	1:45:A:ARG:C	8	7.74
(1,203)	2:148:B:GLY:C	2:149:B:ASP:N	2:149:B:ASP:CA	2:149:B:ASP:C	5	7.73
(1,167)	2:130:B:ARG:C	2:131:B:LEU:N	2:131:B:LEU:CA	2:131:B:LEU:C	5	7.7
(1,226)	2:160:B:GLU:C	2:161:B:HIS:N	2:161:B:HIS:CA	2:161:B:HIS:C	7	7.69
(1,46)	1:27:A:LYS:C	1:28:A:ILE:N	1:28:A:ILE:CA	1:28:A:ILE:C	8	7.69
(1,223)	2:159:B:LYS:N	2:159:B:LYS:CA	2:159:B:LYS:C	2:160:B:GLU:N	1	7.67
(1,209)	2:151:B:PHE:C	2:152:B:GLY:N	2:152:B:GLY:CA	2:152:B:GLY:C	6	7.67
(1,193)	2:143:B:SER:C	2:144:B:ASN:N	2:144:B:ASN:CA	2:144:B:ASN:C	8	7.67
(1,17)	1:12:A:PHE:N	1:12:A:PHE:CA	1:12:A:PHE:C	1:13:A:ALA:N	1	7.67
(1,91)	1:50:A:CYS:C	1:51:A:GLY:N	1:51:A:GLY:CA	1:51:A:GLY:C	2	7.66
(1,235)	2:165:B:TYR:N	2:165:B:TYR:CA	2:165:B:TYR:C	2:166:B:THR:N	3	7.64
(1,24)	1:15:A:TYR:C	1:16:A:TRP:N	1:16:A:TRP:CA	1:16:A:TRP:C	7	7.64
(1,57)	1:33:A:ARG:N	1:33:A:ARG:CA	1:33:A:ARG:C	1:34:A:ARG:N	6	7.61
(1,18)	1:12:A:PHE:C	1:13:A:ALA:N	1:13:A:ALA:CA	1:13:A:ALA:C	1	7.6
(1,148)	2:121:B:TYR:N	2:121:B:TYR:CA	2:121:B:TYR:C	2:122:B:LEU:N	10	7.57
(1,148)	2:121:B:TYR:N	2:121:B:TYR:CA	2:121:B:TYR:C	2:122:B:LEU:N	7	7.56
(1,6)	1:5:A:ALA:C	1:6:A:SER:N	1:6:A:SER:CA	1:6:A:SER:C	10	7.55
(1,21)	1:14:A:GLU:N	1:14:A:GLU:CA	1:14:A:GLU:C	1:15:A:TYR:N	10	7.54
(1,75)	1:42:A:CYS:C	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	5	7.53
(1,209)	2:151:B:PHE:C	2:152:B:GLY:N	2:152:B:GLY:CA	2:152:B:GLY:C	5	7.42
(1,118)	2:106:B:VAL:N	2:106:B:VAL:CA	2:106:B:VAL:C	2:107:B:GLY:N	5	7.42
(1,50)	1:29:A:LEU:C	1:30:A:GLN:N	1:30:A:GLN:CA	1:30:A:GLN:C	2	7.42
(1,44)	1:26:A:PRO:C	1:27:A:LYS:N	1:27:A:LYS:CA	1:27:A:LYS:C	6	7.41
(1,218)	2:156:B:PHE:C	2:157:B:SER:N	2:157:B:SER:CA	2:157:B:SER:C	7	7.4
(1,84)	1:47:A:ASN:N	1:47:A:ASN:CA	1:47:A:ASN:C	1:48:A:GLY:N	1	7.39
(1,36)	1:21:A:ALA:C	1:22:A:GLY:N	1:22:A:GLY:CA	1:22:A:GLY:C	7	7.39
(1,119)	2:106:B:VAL:C	2:107:B:GLY:N	2:107:B:GLY:CA	2:107:B:GLY:C	5	7.38
(1,52)	1:30:A:GLN:C	1:31:A:ARG:N	1:31:A:ARG:CA	1:31:A:ARG:C	2	7.38
(1,128)	2:111:B:ASP:N	2:111:B:ASP:CA	2:111:B:ASP:C	2:112:B:THR:N	2	7.37
(1,47)	1:28:A:ILE:N	1:28:A:ILE:CA	1:28:A:ILE:C	1:29:A:LEU:N	1	7.36
(1,98)	2:95:B:PRO:C	2:96:B:LYS:N	2:96:B:LYS:CA	2:96:B:LYS:C	2	7.31
(1,84)	1:47:A:ASN:N	1:47:A:ASN:CA	1:47:A:ASN:C	1:48:A:GLY:N	9	7.31
(1,36)	1:21:A:ALA:C	1:22:A:GLY:N	1:22:A:GLY:CA	1:22:A:GLY:C	2	7.29
(1,80)	1:45:A:ARG:N	1:45:A:ARG:CA	1:45:A:ARG:C	1:46:A:GLY:N	3	7.28
(1,223)	2:159:B:LYS:N	2:159:B:LYS:CA	2:159:B:LYS:C	2:160:B:GLU:N	8	7.27
(1,200)	2:147:B:LEU:N	2:147:B:LEU:CA	2:147:B:LEU:C	2:148:B:GLY:N	7	7.27
(1,217)	2:156:B:PHE:N	2:156:B:PHE:CA	2:156:B:PHE:C	2:157:B:SER:N	7	7.25
(1,53)	1:31:A:ARG:N	1:31:A:ARG:CA	1:31:A:ARG:C	1:32:A:CYS:N	7	7.24
(1,243)	2:169:B:TYR:N	2:169:B:TYR:CA	2:169:B:TYR:C	2:170:B:ARG:N	8	7.23
(1,203)	2:148:B:GLY:C	2:149:B:ASP:N	2:149:B:ASP:CA	2:149:B:ASP:C	6	7.23

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,149)	2:121:B:TYR:C	2:122:B:LEU:N	2:122:B:LEU:CA	2:122:B:LEU:C	7	7.22
(1,209)	2:151:B:PHE:C	2:152:B:GLY:N	2:152:B:GLY:CA	2:152:B:GLY:C	3	7.21
(1,174)	2:134:B:GLU:N	2:134:B:GLU:CA	2:134:B:GLU:C	2:135:B:LYS:N	10	7.21
(1,134)	2:114:B:THR:N	2:114:B:THR:CA	2:114:B:THR:C	2:115:B:MET:N	10	7.21
(1,148)	2:121:B:TYR:N	2:121:B:TYR:CA	2:121:B:TYR:C	2:122:B:LEU:N	8	7.2
(1,21)	1:14:A:GLU:N	1:14:A:GLU:CA	1:14:A:GLU:C	1:15:A:TYR:N	8	7.2
(1,16)	1:11:A:SER:C	1:12:A:PHE:N	1:12:A:PHE:CA	1:12:A:PHE:C	2	7.2
(1,249)	2:172:B:LEU:N	2:172:B:LEU:CA	2:172:B:LEU:C	2:173:B:VAL:N	1	7.16
(1,2)	1:2:A:GLY:C	1:3:A:SER:N	1:3:A:SER:CA	1:3:A:SER:C	4	7.16
(1,193)	2:143:B:SER:C	2:144:B:ASN:N	2:144:B:ASN:CA	2:144:B:ASN:C	1	7.15
(1,196)	2:145:B:ASP:N	2:145:B:ASP:CA	2:145:B:ASP:C	2:146:B:LEU:N	1	7.13
(1,172)	2:133:B:ASP:N	2:133:B:ASP:CA	2:133:B:ASP:C	2:134:B:GLU:N	9	7.13
(1,34)	1:20:A:SER:C	1:21:A:ALA:N	1:21:A:ALA:CA	1:21:A:ALA:C	7	7.09
(1,58)	1:33:A:ARG:C	1:34:A:ARG:N	1:34:A:ARG:CA	1:34:A:ARG:C	10	7.08
(1,25)	1:16:A:TRP:N	1:16:A:TRP:CA	1:16:A:TRP:C	1:17:A:ASN:N	5	7.08
(1,135)	2:114:B:THR:C	2:115:B:MET:N	2:115:B:MET:CA	2:115:B:MET:C	4	7.05
(1,34)	1:20:A:SER:C	1:21:A:ALA:N	1:21:A:ALA:CA	1:21:A:ALA:C	6	7.02
(1,115)	2:104:B:LYS:C	2:105:B:SER:N	2:105:B:SER:CA	2:105:B:SER:C	2	7.01
(1,46)	1:27:A:LYS:C	1:28:A:ILE:N	1:28:A:ILE:CA	1:28:A:ILE:C	3	7.01
(1,223)	2:159:B:LYS:N	2:159:B:LYS:CA	2:159:B:LYS:C	2:160:B:GLU:N	6	7.0
(1,89)	1:49:A:TYR:C	1:50:A:CYS:N	1:50:A:CYS:CA	1:50:A:CYS:C	6	6.99
(1,135)	2:114:B:THR:C	2:115:B:MET:N	2:115:B:MET:CA	2:115:B:MET:C	2	6.98
(1,185)	2:139:B:ILE:C	2:140:B:VAL:N	2:140:B:VAL:CA	2:140:B:VAL:C	5	6.94
(1,75)	1:42:A:CYS:C	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	2	6.93
(1,86)	1:48:A:GLY:N	1:48:A:GLY:CA	1:48:A:GLY:C	1:49:A:TYR:N	2	6.92
(1,77)	1:43:A:ILE:C	1:44:A:CYS:N	1:44:A:CYS:CA	1:44:A:CYS:C	4	6.92
(1,46)	1:27:A:LYS:C	1:28:A:ILE:N	1:28:A:ILE:CA	1:28:A:ILE:C	10	6.91
(1,31)	1:19:A:LEU:N	1:19:A:LEU:CA	1:19:A:LEU:C	1:20:A:SER:N	6	6.91
(1,63)	1:36:A:SER:N	1:36:A:SER:CA	1:36:A:SER:C	1:37:A:ASP:N	9	6.9
(1,152)	2:123:B:GLY:N	2:123:B:GLY:CA	2:123:B:GLY:C	2:124:B:GLN:N	6	6.89
(1,121)	2:107:B:GLY:C	2:108:B:ALA:N	2:108:B:ALA:CA	2:108:B:ALA:C	6	6.88
(1,175)	2:134:B:GLU:C	2:135:B:LYS:N	2:135:B:LYS:CA	2:135:B:LYS:C	4	6.86
(1,83)	1:46:A:GLY:C	1:47:A:ASN:N	1:47:A:ASN:CA	1:47:A:ASN:C	8	6.86
(1,90)	1:50:A:CYS:N	1:50:A:CYS:CA	1:50:A:CYS:C	1:51:A:GLY:N	10	6.85
(1,216)	2:155:B:SER:C	2:156:B:PHE:N	2:156:B:PHE:CA	2:156:B:PHE:C	7	6.84
(1,109)	2:101:B:LYS:C	2:102:B:LEU:N	2:102:B:LEU:CA	2:102:B:LEU:C	3	6.83
(1,168)	2:131:B:LEU:N	2:131:B:LEU:CA	2:131:B:LEU:C	2:132:B:TYR:N	3	6.82
(1,208)	2:151:B:PHE:N	2:151:B:PHE:CA	2:151:B:PHE:C	2:152:B:GLY:N	3	6.81
(1,251)	2:173:B:VAL:N	2:173:B:VAL:CA	2:173:B:VAL:C	2:174:B:VAL:N	6	6.8
(1,183)	2:138:B:HIS:C	2:139:B:ILE:N	2:139:B:ILE:CA	2:139:B:ILE:C	5	6.8
(1,147)	2:120:B:PHE:C	2:121:B:TYR:N	2:121:B:TYR:CA	2:121:B:TYR:C	6	6.78
(1,226)	2:160:B:GLU:C	2:161:B:HIS:N	2:161:B:HIS:CA	2:161:B:HIS:C	2	6.75
(1,26)	1:16:A:TRP:C	1:17:A:ASN:N	1:17:A:ASN:CA	1:17:A:ASN:C	6	6.74
(1,183)	2:138:B:HIS:C	2:139:B:ILE:N	2:139:B:ILE:CA	2:139:B:ILE:C	2	6.71
(1,148)	2:121:B:TYR:N	2:121:B:TYR:CA	2:121:B:TYR:C	2:122:B:LEU:N	6	6.71
(1,203)	2:148:B:GLY:C	2:149:B:ASP:N	2:149:B:ASP:CA	2:149:B:ASP:C	10	6.69
(1,186)	2:140:B:VAL:N	2:140:B:VAL:CA	2:140:B:VAL:C	2:141:B:TYR:N	6	6.69
(1,92)	2:92:B:LEU:N	2:92:B:LEU:CA	2:92:B:LEU:C	2:93:B:VAL:N	2	6.69
(1,81)	1:45:A:ARG:C	1:46:A:GLY:N	1:46:A:GLY:CA	1:46:A:GLY:C	1	6.69
(1,157)	2:125:B:TYR:C	2:126:B:ILE:N	2:126:B:ILE:CA	2:126:B:ILE:C	7	6.68
(1,224)	2:159:B:LYS:C	2:160:B:GLU:N	2:160:B:GLU:CA	2:160:B:GLU:C	9	6.66

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,25)	1:16:A:TRP:N	1:16:A:TRP:CA	1:16:A:TRP:C	1:17:A:ASN:N	3	6.65
(1,24)	1:15:A:TYR:C	1:16:A:TRP:N	1:16:A:TRP:CA	1:16:A:TRP:C	5	6.65
(1,218)	2:156:B:PHE:C	2:157:B:SER:N	2:157:B:SER:CA	2:157:B:SER:C	6	6.64
(1,237)	2:166:B:THR:N	2:166:B:THR:CA	2:166:B:THR:C	2:167:B:MET:N	3	6.6
(1,79)	1:44:A:CYS:C	1:45:A:ARG:N	1:45:A:ARG:CA	1:45:A:ARG:C	9	6.59
(1,134)	2:114:B:THR:N	2:114:B:THR:CA	2:114:B:THR:C	2:115:B:MET:N	7	6.57
(1,140)	2:117:B:GLU:N	2:117:B:GLU:CA	2:117:B:GLU:C	2:118:B:VAL:N	10	6.56
(1,248)	2:171:B:ASN:C	2:172:B:LEU:N	2:172:B:LEU:CA	2:172:B:LEU:C	1	6.55
(1,89)	1:49:A:TYR:C	1:50:A:CYS:N	1:50:A:CYS:CA	1:50:A:CYS:C	7	6.55
(1,222)	2:158:B:VAL:C	2:159:B:LYS:N	2:159:B:LYS:CA	2:159:B:LYS:C	2	6.52
(1,126)	2:110:B:LYS:N	2:110:B:LYS:CA	2:110:B:LYS:C	2:111:B:ASP:N	7	6.52
(1,61)	1:35:A:ASP:N	1:35:A:ASP:CA	1:35:A:ASP:C	1:36:A:SER:N	10	6.52
(1,94)	2:93:B:VAL:N	2:93:B:VAL:CA	2:93:B:VAL:C	2:94:B:ARG:N	6	6.49
(1,66)	1:37:A:ASP:C	1:38:A:CYS:N	1:38:A:CYS:CA	1:38:A:CYS:C	5	6.49
(1,182)	2:138:B:HIS:N	2:138:B:HIS:CA	2:138:B:HIS:C	2:139:B:ILE:N	10	6.48
(1,19)	1:13:A:ALA:N	1:13:A:ALA:CA	1:13:A:ALA:C	1:14:A:GLU:N	9	6.47
(1,170)	2:132:B:TYR:N	2:132:B:TYR:CA	2:132:B:TYR:C	2:133:B:ASP:N	6	6.46
(1,113)	2:103:B:LEU:C	2:104:B:LYS:N	2:104:B:LYS:CA	2:104:B:LYS:C	2	6.46
(1,29)	1:18:A:LEU:N	1:18:A:LEU:CA	1:18:A:LEU:C	1:19:A:LEU:N	2	6.45
(1,244)	2:169:B:TYR:C	2:170:B:ARG:N	2:170:B:ARG:CA	2:170:B:ARG:C	2	6.44
(1,244)	2:169:B:TYR:C	2:170:B:ARG:N	2:170:B:ARG:CA	2:170:B:ARG:C	7	6.43
(1,151)	2:122:B:LEU:C	2:123:B:GLY:N	2:123:B:GLY:CA	2:123:B:GLY:C	3	6.43
(1,39)	1:23:A:GLY:N	1:23:A:GLY:CA	1:23:A:GLY:C	1:24:A:VAL:N	5	6.42
(1,109)	2:101:B:LYS:C	2:102:B:LEU:N	2:102:B:LEU:CA	2:102:B:LEU:C	2	6.41
(1,21)	1:14:A:GLU:N	1:14:A:GLU:CA	1:14:A:GLU:C	1:15:A:TYR:N	4	6.41
(1,185)	2:139:B:ILE:C	2:140:B:VAL:N	2:140:B:VAL:CA	2:140:B:VAL:C	8	6.37
(1,91)	1:50:A:CYS:C	1:51:A:GLY:N	1:51:A:GLY:CA	1:51:A:GLY:C	1	6.37
(1,250)	2:172:B:LEU:C	2:173:B:VAL:N	2:173:B:VAL:CA	2:173:B:VAL:C	5	6.35
(1,194)	2:144:B:ASN:N	2:144:B:ASN:CA	2:144:B:ASN:C	2:145:B:ASP:N	8	6.35
(1,114)	2:104:B:LYS:N	2:104:B:LYS:CA	2:104:B:LYS:C	2:105:B:SER:N	7	6.35
(1,109)	2:101:B:LYS:C	2:102:B:LEU:N	2:102:B:LEU:CA	2:102:B:LEU:C	9	6.34
(1,46)	1:27:A:LYS:C	1:28:A:ILE:N	1:28:A:ILE:CA	1:28:A:ILE:C	6	6.31
(1,207)	2:150:B:LEU:C	2:151:B:PHE:N	2:151:B:PHE:CA	2:151:B:PHE:C	2	6.3
(1,38)	1:22:A:GLY:C	1:23:A:GLY:N	1:23:A:GLY:CA	1:23:A:GLY:C	10	6.3
(1,71)	1:40:A:GLY:C	1:41:A:ALA:N	1:41:A:ALA:CA	1:41:A:ALA:C	2	6.29
(1,30)	1:18:A:LEU:C	1:19:A:LEU:N	1:19:A:LEU:CA	1:19:A:LEU:C	4	6.29
(1,132)	2:113:B:TYR:N	2:113:B:TYR:CA	2:113:B:TYR:C	2:114:B:THR:N	3	6.28
(1,242)	2:168:B:ILE:C	2:169:B:TYR:N	2:169:B:TYR:CA	2:169:B:TYR:C	2	6.27
(1,178)	2:136:B:GLN:N	2:136:B:GLN:CA	2:136:B:GLN:C	2:137:B:GLN:N	5	6.26
(1,121)	2:107:B:GLY:C	2:108:B:ALA:N	2:108:B:ALA:CA	2:108:B:ALA:C	9	6.21
(1,178)	2:136:B:GLN:N	2:136:B:GLN:CA	2:136:B:GLN:C	2:137:B:GLN:N	2	6.2
(1,32)	1:19:A:LEU:C	1:20:A:SER:N	1:20:A:SER:CA	1:20:A:SER:C	9	6.19
(1,68)	1:39:A:PRO:N	1:39:A:PRO:CA	1:39:A:PRO:C	1:40:A:GLY:N	8	6.17
(1,46)	1:27:A:LYS:C	1:28:A:ILE:N	1:28:A:ILE:CA	1:28:A:ILE:C	2	6.15
(1,96)	2:94:B:ARG:N	2:94:B:ARG:CA	2:94:B:ARG:C	2:95:B:PRO:N	5	6.13
(1,66)	1:37:A:ASP:C	1:38:A:CYS:N	1:38:A:CYS:CA	1:38:A:CYS:C	8	6.13
(1,200)	2:147:B:LEU:N	2:147:B:LEU:CA	2:147:B:LEU:C	2:148:B:GLY:N	5	6.12
(1,214)	2:154:B:PRO:C	2:155:B:SER:N	2:155:B:SER:CA	2:155:B:SER:C	9	6.1
(1,118)	2:106:B:VAL:N	2:106:B:VAL:CA	2:106:B:VAL:C	2:107:B:GLY:N	10	6.1
(1,82)	1:46:A:GLY:N	1:46:A:GLY:CA	1:46:A:GLY:C	1:47:A:ASN:N	5	6.08
(1,29)	1:18:A:LEU:N	1:18:A:LEU:CA	1:18:A:LEU:C	1:19:A:LEU:N	1	6.08

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,226)	2:160:B:GLU:C	2:161:B:HIS:N	2:161:B:HIS:CA	2:161:B:HIS:C	8	6.07
(1,24)	1:15:A:TYR:C	1:16:A:TRP:N	1:16:A:TRP:CA	1:16:A:TRP:C	8	6.07
(1,189)	2:141:B:TYR:C	2:142:B:CYS:N	2:142:B:CYS:CA	2:142:B:CYS:C	2	6.06
(1,186)	2:140:B:VAL:N	2:140:B:VAL:CA	2:140:B:VAL:C	2:141:B:TYR:N	10	6.06
(1,109)	2:101:B:LYS:C	2:102:B:LEU:N	2:102:B:LEU:CA	2:102:B:LEU:C	5	6.06
(1,84)	1:47:A:ASN:N	1:47:A:ASN:CA	1:47:A:ASN:C	1:48:A:GLY:N	8	6.05
(1,170)	2:132:B:TYR:N	2:132:B:TYR:CA	2:132:B:TYR:C	2:133:B:ASP:N	3	6.04
(1,248)	2:171:B:ASN:C	2:172:B:LEU:N	2:172:B:LEU:CA	2:172:B:LEU:C	6	6.03
(1,186)	2:140:B:VAL:N	2:140:B:VAL:CA	2:140:B:VAL:C	2:141:B:TYR:N	1	6.03
(1,31)	1:19:A:LEU:N	1:19:A:LEU:CA	1:19:A:LEU:C	1:20:A:SER:N	8	6.03
(1,15)	1:11:A:SER:N	1:11:A:SER:CA	1:11:A:SER:C	1:12:A:PHE:N	10	6.03
(1,47)	1:28:A:ILE:N	1:28:A:ILE:CA	1:28:A:ILE:C	1:29:A:LEU:N	5	6.01
(1,20)	1:13:A:ALA:C	1:14:A:GLU:N	1:14:A:GLU:CA	1:14:A:GLU:C	3	6.01
(1,234)	2:164:B:ILE:C	2:165:B:TYR:N	2:165:B:TYR:CA	2:165:B:TYR:C	4	6.0
(1,69)	1:39:A:PRO:C	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	10	5.99
(1,25)	1:16:A:TRP:N	1:16:A:TRP:CA	1:16:A:TRP:C	1:17:A:ASN:N	7	5.98
(1,8)	1:6:A:SER:C	1:7:A:LYS:N	1:7:A:LYS:CA	1:7:A:LYS:C	1	5.98
(1,244)	2:169:B:TYR:C	2:170:B:ARG:N	2:170:B:ARG:CA	2:170:B:ARG:C	4	5.97
(1,212)	2:153:B:VAL:N	2:153:B:VAL:CA	2:153:B:VAL:C	2:154:B:PRO:N	6	5.97
(1,95)	2:93:B:VAL:C	2:94:B:ARG:N	2:94:B:ARG:CA	2:94:B:ARG:C	7	5.97
(1,1)	1:1:A:SER:N	1:1:A:SER:CA	1:1:A:SER:C	1:2:A:GLY:N	8	5.97
(1,29)	1:18:A:LEU:N	1:18:A:LEU:CA	1:18:A:LEU:C	1:19:A:LEU:N	7	5.94
(1,170)	2:132:B:TYR:N	2:132:B:TYR:CA	2:132:B:TYR:C	2:133:B:ASP:N	4	5.93
(1,29)	1:18:A:LEU:N	1:18:A:LEU:CA	1:18:A:LEU:C	1:19:A:LEU:N	3	5.93
(1,201)	2:147:B:LEU:C	2:148:B:GLY:N	2:148:B:GLY:CA	2:148:B:GLY:C	1	5.92
(1,196)	2:145:B:ASP:N	2:145:B:ASP:CA	2:145:B:ASP:C	2:146:B:LEU:N	7	5.92
(1,64)	1:36:A:SER:C	1:37:A:ASP:N	1:37:A:ASP:CA	1:37:A:ASP:C	3	5.92
(1,213)	2:154:B:PRO:N	2:154:B:PRO:CA	2:154:B:PRO:C	2:155:B:SER:N	10	5.91
(1,249)	2:172:B:LEU:N	2:172:B:LEU:CA	2:172:B:LEU:C	2:173:B:VAL:N	2	5.9
(1,243)	2:169:B:TYR:N	2:169:B:TYR:CA	2:169:B:TYR:C	2:170:B:ARG:N	1	5.9
(1,173)	2:133:B:ASP:C	2:134:B:GLU:N	2:134:B:GLU:CA	2:134:B:GLU:C	5	5.9
(1,87)	1:48:A:GLY:C	1:49:A:TYR:N	1:49:A:TYR:CA	1:49:A:TYR:C	4	5.9
(1,209)	2:151:B:PHE:C	2:152:B:GLY:N	2:152:B:GLY:CA	2:152:B:GLY:C	8	5.88
(1,103)	2:98:B:LEU:C	2:99:B:LEU:N	2:99:B:LEU:CA	2:99:B:LEU:C	3	5.88
(1,50)	1:29:A:LEU:C	1:30:A:GLN:N	1:30:A:GLN:CA	1:30:A:GLN:C	7	5.88
(1,151)	2:122:B:LEU:C	2:123:B:GLY:N	2:123:B:GLY:CA	2:123:B:GLY:C	5	5.87
(1,131)	2:112:B:THR:C	2:113:B:TYR:N	2:113:B:TYR:CA	2:113:B:TYR:C	10	5.86
(1,168)	2:131:B:LEU:N	2:131:B:LEU:CA	2:131:B:LEU:C	2:132:B:TYR:N	8	5.85
(1,108)	2:101:B:LYS:N	2:101:B:LYS:CA	2:101:B:LYS:C	2:102:B:LEU:N	5	5.85
(1,56)	1:32:A:CYS:C	1:33:A:ARG:N	1:33:A:ARG:CA	1:33:A:ARG:C	8	5.85
(1,190)	2:142:B:CYS:N	2:142:B:CYS:CA	2:142:B:CYS:C	2:143:B:SER:N	10	5.84
(1,150)	2:122:B:LEU:N	2:122:B:LEU:CA	2:122:B:LEU:C	2:123:B:GLY:N	6	5.84
(1,47)	1:28:A:ILE:N	1:28:A:ILE:CA	1:28:A:ILE:C	1:29:A:LEU:N	7	5.83
(1,36)	1:21:A:ALA:C	1:22:A:GLY:N	1:22:A:GLY:CA	1:22:A:GLY:C	5	5.83
(1,32)	1:19:A:LEU:C	1:20:A:SER:N	1:20:A:SER:CA	1:20:A:SER:C	8	5.83
(1,252)	2:173:B:VAL:C	2:174:B:VAL:N	2:174:B:VAL:CA	2:174:B:VAL:C	1	5.81
(1,149)	2:121:B:TYR:C	2:122:B:LEU:N	2:122:B:LEU:CA	2:122:B:LEU:C	2	5.81
(1,1)	1:1:A:SER:N	1:1:A:SER:CA	1:1:A:SER:C	1:2:A:GLY:N	1	5.81
(1,131)	2:112:B:THR:C	2:113:B:TYR:N	2:113:B:TYR:CA	2:113:B:TYR:C	7	5.8
(1,56)	1:32:A:CYS:C	1:33:A:ARG:N	1:33:A:ARG:CA	1:33:A:ARG:C	3	5.76
(1,26)	1:16:A:TRP:C	1:17:A:ASN:N	1:17:A:ASN:CA	1:17:A:ASN:C	4	5.76

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,52)	1:30:A:GLN:C	1:31:A:ARG:N	1:31:A:ARG:CA	1:31:A:ARG:C	4	5.75
(1,147)	2:120:B:PHE:C	2:121:B:TYR:N	2:121:B:TYR:CA	2:121:B:TYR:C	9	5.74
(1,95)	2:93:B:VAL:C	2:94:B:ARG:N	2:94:B:ARG:CA	2:94:B:ARG:C	3	5.73
(1,138)	2:116:B:LYS:N	2:116:B:LYS:CA	2:116:B:LYS:C	2:117:B:GLU:N	2	5.71
(1,95)	2:93:B:VAL:C	2:94:B:ARG:N	2:94:B:ARG:CA	2:94:B:ARG:C	8	5.7
(1,200)	2:147:B:LEU:N	2:147:B:LEU:CA	2:147:B:LEU:C	2:148:B:GLY:N	2	5.68
(1,192)	2:143:B:SER:N	2:143:B:SER:CA	2:143:B:SER:C	2:144:B:ASN:N	8	5.68
(1,47)	1:28:A:ILE:N	1:28:A:ILE:CA	1:28:A:ILE:C	1:29:A:LEU:N	4	5.67
(1,120)	2:107:B:GLY:N	2:107:B:GLY:CA	2:107:B:GLY:C	2:108:B:ALA:N	5	5.66
(1,93)	2:92:B:LEU:C	2:93:B:VAL:N	2:93:B:VAL:CA	2:93:B:VAL:C	3	5.66
(1,63)	1:36:A:SER:N	1:36:A:SER:CA	1:36:A:SER:C	1:37:A:ASP:N	3	5.66
(1,251)	2:173:B:VAL:N	2:173:B:VAL:CA	2:173:B:VAL:C	2:174:B:VAL:N	3	5.65
(1,224)	2:159:B:LYS:C	2:160:B:GLU:N	2:160:B:GLU:CA	2:160:B:GLU:C	8	5.64
(1,115)	2:104:B:LYS:C	2:105:B:SER:N	2:105:B:SER:CA	2:105:B:SER:C	10	5.62
(1,173)	2:133:B:ASP:C	2:134:B:GLU:N	2:134:B:GLU:CA	2:134:B:GLU:C	8	5.6
(1,167)	2:130:B:ARG:C	2:131:B:LEU:N	2:131:B:LEU:CA	2:131:B:LEU:C	10	5.6
(1,47)	1:28:A:ILE:N	1:28:A:ILE:CA	1:28:A:ILE:C	1:29:A:LEU:N	2	5.6
(1,183)	2:138:B:HIS:C	2:139:B:ILE:N	2:139:B:ILE:CA	2:139:B:ILE:C	8	5.59
(1,106)	2:100:B:LEU:N	2:100:B:LEU:CA	2:100:B:LEU:C	2:101:B:LYS:N	7	5.57
(1,57)	1:33:A:ARG:N	1:33:A:ARG:CA	1:33:A:ARG:C	1:34:A:ARG:N	9	5.57
(1,49)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	1:30:A:GLN:N	5	5.56
(1,224)	2:159:B:LYS:C	2:160:B:GLU:N	2:160:B:GLU:CA	2:160:B:GLU:C	2	5.54
(1,190)	2:142:B:CYS:N	2:142:B:CYS:CA	2:142:B:CYS:C	2:143:B:SER:N	3	5.54
(1,19)	1:13:A:ALA:N	1:13:A:ALA:CA	1:13:A:ALA:C	1:14:A:GLU:N	5	5.54
(1,114)	2:104:B:LYS:N	2:104:B:LYS:CA	2:104:B:LYS:C	2:105:B:SER:N	5	5.53
(1,16)	1:11:A:SER:C	1:12:A:PHE:N	1:12:A:PHE:CA	1:12:A:PHE:C	8	5.52
(1,24)	1:15:A:TYR:C	1:16:A:TRP:N	1:16:A:TRP:CA	1:16:A:TRP:C	4	5.49
(1,230)	2:162:B:ARG:C	2:163:B:LYS:N	2:163:B:LYS:CA	2:163:B:LYS:C	2	5.48
(1,219)	2:157:B:SER:N	2:157:B:SER:CA	2:157:B:SER:C	2:158:B:VAL:N	8	5.48
(1,148)	2:121:B:TYR:N	2:121:B:TYR:CA	2:121:B:TYR:C	2:122:B:LEU:N	5	5.46
(1,203)	2:148:B:GLY:C	2:149:B:ASP:N	2:149:B:ASP:CA	2:149:B:ASP:C	4	5.45
(1,178)	2:136:B:GLN:N	2:136:B:GLN:CA	2:136:B:GLN:C	2:137:B:GLN:N	9	5.45
(1,132)	2:113:B:TYR:N	2:113:B:TYR:CA	2:113:B:TYR:C	2:114:B:THR:N	2	5.45
(1,80)	1:45:A:ARG:N	1:45:A:ARG:CA	1:45:A:ARG:C	1:46:A:GLY:N	4	5.45
(1,110)	2:102:B:LEU:N	2:102:B:LEU:CA	2:102:B:LEU:C	2:103:B:LEU:N	9	5.44
(1,249)	2:172:B:LEU:N	2:172:B:LEU:CA	2:172:B:LEU:C	2:173:B:VAL:N	4	5.43
(1,166)	2:130:B:ARG:N	2:130:B:ARG:CA	2:130:B:ARG:C	2:131:B:LEU:N	1	5.43
(1,217)	2:156:B:PHE:N	2:156:B:PHE:CA	2:156:B:PHE:C	2:157:B:SER:N	2	5.42
(1,106)	2:100:B:LEU:N	2:100:B:LEU:CA	2:100:B:LEU:C	2:101:B:LYS:N	3	5.42
(1,16)	1:11:A:SER:C	1:12:A:PHE:N	1:12:A:PHE:CA	1:12:A:PHE:C	5	5.41
(1,214)	2:154:B:PRO:C	2:155:B:SER:N	2:155:B:SER:CA	2:155:B:SER:C	2	5.4
(1,192)	2:143:B:SER:N	2:143:B:SER:CA	2:143:B:SER:C	2:144:B:ASN:N	1	5.4
(1,166)	2:130:B:ARG:N	2:130:B:ARG:CA	2:130:B:ARG:C	2:131:B:LEU:N	7	5.4
(1,88)	1:49:A:TYR:N	1:49:A:TYR:CA	1:49:A:TYR:C	1:50:A:CYS:N	9	5.38
(1,17)	1:12:A:PHE:N	1:12:A:PHE:CA	1:12:A:PHE:C	1:13:A:ALA:N	7	5.38
(1,180)	2:137:B:GLN:N	2:137:B:GLN:CA	2:137:B:GLN:C	2:138:B:HIS:N	7	5.36
(1,167)	2:130:B:ARG:C	2:131:B:LEU:N	2:131:B:LEU:CA	2:131:B:LEU:C	8	5.36
(1,98)	2:95:B:PRO:C	2:96:B:LYS:N	2:96:B:LYS:CA	2:96:B:LYS:C	8	5.36
(1,80)	1:45:A:ARG:N	1:45:A:ARG:CA	1:45:A:ARG:C	1:46:A:GLY:N	10	5.36
(1,184)	2:139:B:ILE:N	2:139:B:ILE:CA	2:139:B:ILE:C	2:140:B:VAL:N	5	5.34
(1,121)	2:107:B:GLY:C	2:108:B:ALA:N	2:108:B:ALA:CA	2:108:B:ALA:C	2	5.34

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,71)	1:40:A:GLY:C	1:41:A:ALA:N	1:41:A:ALA:CA	1:41:A:ALA:C	5	5.34
(1,58)	1:33:A:ARG:C	1:34:A:ARG:N	1:34:A:ARG:CA	1:34:A:ARG:C	4	5.34
(1,83)	1:46:A:GLY:C	1:47:A:ASN:N	1:47:A:ASN:CA	1:47:A:ASN:C	5	5.33
(1,77)	1:43:A:ILE:C	1:44:A:CYS:N	1:44:A:CYS:CA	1:44:A:CYS:C	10	5.33
(1,237)	2:166:B:THR:N	2:166:B:THR:CA	2:166:B:THR:C	2:167:B:MET:N	4	5.32
(1,133)	2:113:B:TYR:C	2:114:B:THR:N	2:114:B:THR:CA	2:114:B:THR:C	1	5.32
(1,237)	2:166:B:THR:N	2:166:B:THR:CA	2:166:B:THR:C	2:167:B:MET:N	1	5.31
(1,10)	1:7:A:LYS:C	1:8:A:ALA:N	1:8:A:ALA:CA	1:8:A:ALA:C	4	5.3
(1,176)	2:135:B:LYS:N	2:135:B:LYS:CA	2:135:B:LYS:C	2:136:B:GLN:N	2	5.28
(1,188)	2:141:B:TYR:N	2:141:B:TYR:CA	2:141:B:TYR:C	2:142:B:CYS:N	1	5.24
(1,20)	1:13:A:ALA:C	1:14:A:GLU:N	1:14:A:GLU:CA	1:14:A:GLU:C	7	5.23
(1,21)	1:14:A:GLU:N	1:14:A:GLU:CA	1:14:A:GLU:C	1:15:A:TYR:N	5	5.21
(1,209)	2:151:B:PHE:C	2:152:B:GLY:N	2:152:B:GLY:CA	2:152:B:GLY:C	2	5.19
(1,230)	2:162:B:ARG:C	2:163:B:LYS:N	2:163:B:LYS:CA	2:163:B:LYS:C	7	5.17
(1,131)	2:112:B:THR:C	2:113:B:TYR:N	2:113:B:TYR:CA	2:113:B:TYR:C	8	5.17
(1,64)	1:36:A:SER:C	1:37:A:ASP:N	1:37:A:ASP:CA	1:37:A:ASP:C	4	5.16
(1,90)	1:50:A:CYS:N	1:50:A:CYS:CA	1:50:A:CYS:C	1:51:A:GLY:N	4	5.15
(1,203)	2:148:B:GLY:C	2:149:B:ASP:N	2:149:B:ASP:CA	2:149:B:ASP:C	3	5.14
(1,24)	1:15:A:TYR:C	1:16:A:TRP:N	1:16:A:TRP:CA	1:16:A:TRP:C	10	5.11
(1,196)	2:145:B:ASP:N	2:145:B:ASP:CA	2:145:B:ASP:C	2:146:B:LEU:N	3	5.09
(1,211)	2:152:B:GLY:C	2:153:B:VAL:N	2:153:B:VAL:CA	2:153:B:VAL:C	7	5.08
(1,218)	2:156:B:PHE:C	2:157:B:SER:N	2:157:B:SER:CA	2:157:B:SER:C	8	5.07
(1,39)	1:23:A:GLY:N	1:23:A:GLY:CA	1:23:A:GLY:C	1:24:A:VAL:N	7	5.06
(1,70)	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	1:41:A:ALA:N	9	5.04
(1,54)	1:31:A:ARG:C	1:32:A:CYS:N	1:32:A:CYS:CA	1:32:A:CYS:C	10	5.04
(1,118)	2:106:B:VAL:N	2:106:B:VAL:CA	2:106:B:VAL:C	2:107:B:GLY:N	9	5.03
(1,244)	2:169:B:TYR:C	2:170:B:ARG:N	2:170:B:ARG:CA	2:170:B:ARG:C	9	5.02
(1,124)	2:109:B:GLN:N	2:109:B:GLN:CA	2:109:B:GLN:C	2:110:B:LYS:N	6	5.02
(1,113)	2:103:B:LEU:C	2:104:B:LYS:N	2:104:B:LYS:CA	2:104:B:LYS:C	7	5.02
(1,139)	2:116:B:LYS:C	2:117:B:GLU:N	2:117:B:GLU:CA	2:117:B:GLU:C	5	5.01
(1,129)	2:111:B:ASP:C	2:112:B:THR:N	2:112:B:THR:CA	2:112:B:THR:C	4	5.01
(1,108)	2:101:B:LYS:N	2:101:B:LYS:CA	2:101:B:LYS:C	2:102:B:LEU:N	6	5.01
(1,42)	1:24:A:VAL:C	1:25:A:CYS:N	1:25:A:CYS:CA	1:25:A:CYS:C	2	4.98
(1,200)	2:147:B:LEU:N	2:147:B:LEU:CA	2:147:B:LEU:C	2:148:B:GLY:N	10	4.97
(1,171)	2:132:B:TYR:C	2:133:B:ASP:N	2:133:B:ASP:CA	2:133:B:ASP:C	2	4.94
(1,139)	2:116:B:LYS:C	2:117:B:GLU:N	2:117:B:GLU:CA	2:117:B:GLU:C	3	4.94
(1,174)	2:134:B:GLU:N	2:134:B:GLU:CA	2:134:B:GLU:C	2:135:B:LYS:N	4	4.92
(1,168)	2:131:B:LEU:N	2:131:B:LEU:CA	2:131:B:LEU:C	2:132:B:TYR:N	10	4.92
(1,81)	1:45:A:ARG:C	1:46:A:GLY:N	1:46:A:GLY:CA	1:46:A:GLY:C	9	4.92
(1,47)	1:28:A:ILE:N	1:28:A:ILE:CA	1:28:A:ILE:C	1:29:A:LEU:N	10	4.91
(1,102)	2:98:B:LEU:N	2:98:B:LEU:CA	2:98:B:LEU:C	2:99:B:LEU:N	3	4.9
(1,98)	2:95:B:PRO:C	2:96:B:LYS:N	2:96:B:LYS:CA	2:96:B:LYS:C	10	4.89
(1,166)	2:130:B:ARG:N	2:130:B:ARG:CA	2:130:B:ARG:C	2:131:B:LEU:N	10	4.86
(1,154)	2:124:B:GLN:N	2:124:B:GLN:CA	2:124:B:GLN:C	2:125:B:TYR:N	5	4.86
(1,29)	1:18:A:LEU:N	1:18:A:LEU:CA	1:18:A:LEU:C	1:19:A:LEU:N	8	4.84
(1,178)	2:136:B:GLN:N	2:136:B:GLN:CA	2:136:B:GLN:C	2:137:B:GLN:N	3	4.82
(1,106)	2:100:B:LEU:N	2:100:B:LEU:CA	2:100:B:LEU:C	2:101:B:LYS:N	1	4.8
(1,199)	2:146:B:LEU:C	2:147:B:LEU:N	2:147:B:LEU:CA	2:147:B:LEU:C	2	4.79
(1,114)	2:104:B:LYS:N	2:104:B:LYS:CA	2:104:B:LYS:C	2:105:B:SER:N	8	4.77
(1,188)	2:141:B:TYR:N	2:141:B:TYR:CA	2:141:B:TYR:C	2:142:B:CYS:N	9	4.76
(1,40)	1:23:A:GLY:C	1:24:A:VAL:N	1:24:A:VAL:CA	1:24:A:VAL:C	6	4.76

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,236)	2:165:B:TYR:C	2:166:B:THR:N	2:166:B:THR:CA	2:166:B:THR:C	10	4.75
(1,219)	2:157:B:SER:N	2:157:B:SER:CA	2:157:B:SER:C	2:158:B:VAL:N	7	4.73
(1,196)	2:145:B:ASP:N	2:145:B:ASP:CA	2:145:B:ASP:C	2:146:B:LEU:N	5	4.72
(1,173)	2:133:B:ASP:C	2:134:B:GLU:N	2:134:B:GLU:CA	2:134:B:GLU:C	2	4.72
(1,242)	2:168:B:ILE:C	2:169:B:TYR:N	2:169:B:TYR:CA	2:169:B:TYR:C	8	4.71
(1,72)	1:41:A:ALA:N	1:41:A:ALA:CA	1:41:A:ALA:C	1:42:A:CYS:N	3	4.71
(1,33)	1:20:A:SER:N	1:20:A:SER:CA	1:20:A:SER:C	1:21:A:ALA:N	1	4.71
(1,81)	1:45:A:ARG:C	1:46:A:GLY:N	1:46:A:GLY:CA	1:46:A:GLY:C	3	4.69
(1,251)	2:173:B:VAL:N	2:173:B:VAL:CA	2:173:B:VAL:C	2:174:B:VAL:N	1	4.66
(1,32)	1:19:A:LEU:C	1:20:A:SER:N	1:20:A:SER:CA	1:20:A:SER:C	5	4.66
(1,193)	2:143:B:SER:C	2:144:B:ASN:N	2:144:B:ASN:CA	2:144:B:ASN:C	5	4.65
(1,177)	2:135:B:LYS:C	2:136:B:GLN:N	2:136:B:GLN:CA	2:136:B:GLN:C	1	4.62
(1,90)	1:50:A:CYS:N	1:50:A:CYS:CA	1:50:A:CYS:C	1:51:A:GLY:N	3	4.62
(1,195)	2:144:B:ASN:C	2:145:B:ASP:N	2:145:B:ASP:CA	2:145:B:ASP:C	3	4.61
(1,80)	1:45:A:ARG:N	1:45:A:ARG:CA	1:45:A:ARG:C	1:46:A:GLY:N	6	4.61
(1,149)	2:121:B:TYR:C	2:122:B:LEU:N	2:122:B:LEU:CA	2:122:B:LEU:C	4	4.6
(1,119)	2:106:B:VAL:C	2:107:B:GLY:N	2:107:B:GLY:CA	2:107:B:GLY:C	1	4.6
(1,105)	2:99:B:LEU:C	2:100:B:LEU:N	2:100:B:LEU:CA	2:100:B:LEU:C	4	4.6
(1,79)	1:44:A:CYS:C	1:45:A:ARG:N	1:45:A:ARG:CA	1:45:A:ARG:C	5	4.6
(1,86)	1:48:A:GLY:N	1:48:A:GLY:CA	1:48:A:GLY:C	1:49:A:TYR:N	5	4.58
(1,47)	1:28:A:ILE:N	1:28:A:ILE:CA	1:28:A:ILE:C	1:29:A:LEU:N	3	4.57
(1,20)	1:13:A:ALA:C	1:14:A:GLU:N	1:14:A:GLU:CA	1:14:A:GLU:C	2	4.56
(1,228)	2:161:B:HIS:C	2:162:B:ARG:N	2:162:B:ARG:CA	2:162:B:ARG:C	10	4.55
(1,135)	2:114:B:THR:C	2:115:B:MET:N	2:115:B:MET:CA	2:115:B:MET:C	8	4.54
(1,87)	1:48:A:GLY:C	1:49:A:TYR:N	1:49:A:TYR:CA	1:49:A:TYR:C	3	4.53
(1,43)	1:25:A:CYS:N	1:25:A:CYS:CA	1:25:A:CYS:C	1:26:A:PRO:N	9	4.51
(1,5)	1:5:A:ALA:N	1:5:A:ALA:CA	1:5:A:ALA:C	1:6:A:SER:N	10	4.5
(1,209)	2:151:B:PHE:C	2:152:B:GLY:N	2:152:B:GLY:CA	2:152:B:GLY:C	9	4.49
(1,9)	1:7:A:LYS:N	1:7:A:LYS:CA	1:7:A:LYS:C	1:8:A:ALA:N	2	4.49
(1,173)	2:133:B:ASP:C	2:134:B:GLU:N	2:134:B:GLU:CA	2:134:B:GLU:C	7	4.48
(1,121)	2:107:B:GLY:C	2:108:B:ALA:N	2:108:B:ALA:CA	2:108:B:ALA:C	7	4.48
(1,109)	2:101:B:LYS:C	2:102:B:LEU:N	2:102:B:LEU:CA	2:102:B:LEU:C	6	4.48
(1,106)	2:100:B:LEU:N	2:100:B:LEU:CA	2:100:B:LEU:C	2:101:B:LYS:N	4	4.48
(1,27)	1:17:A:ASN:N	1:17:A:ASN:CA	1:17:A:ASN:C	1:18:A:LEU:N	9	4.47
(1,23)	1:15:A:TYR:N	1:15:A:TYR:CA	1:15:A:TYR:C	1:16:A:TRP:N	5	4.47
(1,63)	1:36:A:SER:N	1:36:A:SER:CA	1:36:A:SER:C	1:37:A:ASP:N	1	4.46
(1,108)	2:101:B:LYS:N	2:101:B:LYS:CA	2:101:B:LYS:C	2:102:B:LEU:N	7	4.44
(1,31)	1:19:A:LEU:N	1:19:A:LEU:CA	1:19:A:LEU:C	1:20:A:SER:N	5	4.44
(1,203)	2:148:B:GLY:C	2:149:B:ASP:N	2:149:B:ASP:CA	2:149:B:ASP:C	2	4.43
(1,25)	1:16:A:TRP:N	1:16:A:TRP:CA	1:16:A:TRP:C	1:17:A:ASN:N	2	4.43
(1,5)	1:5:A:ALA:N	1:5:A:ALA:CA	1:5:A:ALA:C	1:6:A:SER:N	9	4.43
(1,250)	2:172:B:LEU:C	2:173:B:VAL:N	2:173:B:VAL:CA	2:173:B:VAL:C	3	4.42
(1,224)	2:159:B:LYS:C	2:160:B:GLU:N	2:160:B:GLU:CA	2:160:B:GLU:C	3	4.41
(1,202)	2:148:B:GLY:N	2:148:B:GLY:CA	2:148:B:GLY:C	2:149:B:ASP:N	1	4.41
(1,183)	2:138:B:HIS:C	2:139:B:ILE:N	2:139:B:ILE:CA	2:139:B:ILE:C	6	4.41
(1,130)	2:112:B:THR:N	2:112:B:THR:CA	2:112:B:THR:C	2:113:B:TYR:N	9	4.39
(1,106)	2:100:B:LEU:N	2:100:B:LEU:CA	2:100:B:LEU:C	2:101:B:LYS:N	2	4.39
(1,64)	1:36:A:SER:C	1:37:A:ASP:N	1:37:A:ASP:CA	1:37:A:ASP:C	10	4.39
(1,24)	1:15:A:TYR:C	1:16:A:TRP:N	1:16:A:TRP:CA	1:16:A:TRP:C	6	4.39
(1,212)	2:153:B:VAL:N	2:153:B:VAL:CA	2:153:B:VAL:C	2:154:B:PRO:N	5	4.38
(1,169)	2:131:B:LEU:C	2:132:B:TYR:N	2:132:B:TYR:CA	2:132:B:TYR:C	2	4.38

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,108)	2:101:B:LYS:N	2:101:B:LYS:CA	2:101:B:LYS:C	2:102:B:LEU:N	9	4.37
(1,63)	1:36:A:SER:N	1:36:A:SER:CA	1:36:A:SER:C	1:37:A:ASP:N	6	4.37
(1,1)	1:1:A:SER:N	1:1:A:SER:CA	1:1:A:SER:C	1:2:A:GLY:N	4	4.36
(1,206)	2:150:B:LEU:N	2:150:B:LEU:CA	2:150:B:LEU:C	2:151:B:PHE:N	7	4.34
(1,193)	2:143:B:SER:C	2:144:B:ASN:N	2:144:B:ASN:CA	2:144:B:ASN:C	6	4.34
(1,106)	2:100:B:LEU:N	2:100:B:LEU:CA	2:100:B:LEU:C	2:101:B:LYS:N	9	4.33
(1,37)	1:22:A:GLY:N	1:22:A:GLY:CA	1:22:A:GLY:C	1:23:A:GLY:N	10	4.33
(1,127)	2:110:B:LYS:C	2:111:B:ASP:N	2:111:B:ASP:CA	2:111:B:ASP:C	9	4.32
(1,16)	1:11:A:SER:C	1:12:A:PHE:N	1:12:A:PHE:CA	1:12:A:PHE:C	3	4.32
(1,12)	1:9:A:PRO:C	1:10:A:THR:N	1:10:A:THR:CA	1:10:A:THR:C	8	4.31
(1,150)	2:122:B:LEU:N	2:122:B:LEU:CA	2:122:B:LEU:C	2:123:B:GLY:N	4	4.3
(1,143)	2:118:B:VAL:C	2:119:B:LEU:N	2:119:B:LEU:CA	2:119:B:LEU:C	3	4.3
(1,96)	2:94:B:ARG:N	2:94:B:ARG:CA	2:94:B:ARG:C	2:95:B:PRO:N	7	4.3
(1,92)	2:92:B:LEU:N	2:92:B:LEU:CA	2:92:B:LEU:C	2:93:B:VAL:N	4	4.3
(1,196)	2:145:B:ASP:N	2:145:B:ASP:CA	2:145:B:ASP:C	2:146:B:LEU:N	4	4.27
(1,224)	2:159:B:LYS:C	2:160:B:GLU:N	2:160:B:GLU:CA	2:160:B:GLU:C	7	4.24
(1,181)	2:137:B:GLN:C	2:138:B:HIS:N	2:138:B:HIS:CA	2:138:B:HIS:C	6	4.24
(1,170)	2:132:B:TYR:N	2:132:B:TYR:CA	2:132:B:TYR:C	2:133:B:ASP:N	5	4.24
(1,139)	2:116:B:LYS:C	2:117:B:GLU:N	2:117:B:GLU:CA	2:117:B:GLU:C	7	4.23
(1,134)	2:114:B:THR:N	2:114:B:THR:CA	2:114:B:THR:C	2:115:B:MET:N	3	4.22
(1,42)	1:24:A:VAL:C	1:25:A:CYS:N	1:25:A:CYS:CA	1:25:A:CYS:C	10	4.22
(1,152)	2:123:B:GLY:N	2:123:B:GLY:CA	2:123:B:GLY:C	2:124:B:GLN:N	8	4.21
(1,87)	1:48:A:GLY:C	1:49:A:TYR:N	1:49:A:TYR:CA	1:49:A:TYR:C	5	4.21
(1,203)	2:148:B:GLY:C	2:149:B:ASP:N	2:149:B:ASP:CA	2:149:B:ASP:C	8	4.19
(1,152)	2:123:B:GLY:N	2:123:B:GLY:CA	2:123:B:GLY:C	2:124:B:GLN:N	4	4.19
(1,71)	1:40:A:GLY:C	1:41:A:ALA:N	1:41:A:ALA:CA	1:41:A:ALA:C	7	4.19
(1,214)	2:154:B:PRO:C	2:155:B:SER:N	2:155:B:SER:CA	2:155:B:SER:C	1	4.18
(1,224)	2:159:B:LYS:C	2:160:B:GLU:N	2:160:B:GLU:CA	2:160:B:GLU:C	5	4.17
(1,70)	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	1:41:A:ALA:N	3	4.17
(1,62)	1:35:A:ASP:C	1:36:A:SER:N	1:36:A:SER:CA	1:36:A:SER:C	6	4.17
(1,105)	2:99:B:LEU:C	2:100:B:LEU:N	2:100:B:LEU:CA	2:100:B:LEU:C	3	4.16
(1,196)	2:145:B:ASP:N	2:145:B:ASP:CA	2:145:B:ASP:C	2:146:B:LEU:N	9	4.15
(1,234)	2:164:B:ILE:C	2:165:B:TYR:N	2:165:B:TYR:CA	2:165:B:TYR:C	7	4.14
(1,234)	2:164:B:ILE:C	2:165:B:TYR:N	2:165:B:TYR:CA	2:165:B:TYR:C	3	4.11
(1,181)	2:137:B:GLN:C	2:138:B:HIS:N	2:138:B:HIS:CA	2:138:B:HIS:C	5	4.09
(1,66)	1:37:A:ASP:C	1:38:A:CYS:N	1:38:A:CYS:CA	1:38:A:CYS:C	2	4.09
(1,19)	1:13:A:ALA:N	1:13:A:ALA:CA	1:13:A:ALA:C	1:14:A:GLU:N	8	4.09
(1,23)	1:15:A:TYR:N	1:15:A:TYR:CA	1:15:A:TYR:C	1:16:A:TRP:N	2	4.08
(1,246)	2:170:B:ARG:C	2:171:B:ASN:N	2:171:B:ASN:CA	2:171:B:ASN:C	9	4.06
(1,216)	2:155:B:SER:C	2:156:B:PHE:N	2:156:B:PHE:CA	2:156:B:PHE:C	2	4.05
(1,37)	1:22:A:GLY:N	1:22:A:GLY:CA	1:22:A:GLY:C	1:23:A:GLY:N	4	4.05
(1,32)	1:19:A:LEU:C	1:20:A:SER:N	1:20:A:SER:CA	1:20:A:SER:C	1	4.05
(1,126)	2:110:B:LYS:N	2:110:B:LYS:CA	2:110:B:LYS:C	2:111:B:ASP:N	1	4.01
(1,18)	1:12:A:PHE:C	1:13:A:ALA:N	1:13:A:ALA:CA	1:13:A:ALA:C	4	4.01
(1,150)	2:122:B:LEU:N	2:122:B:LEU:CA	2:122:B:LEU:C	2:123:B:GLY:N	2	4.0
(1,127)	2:110:B:LYS:C	2:111:B:ASP:N	2:111:B:ASP:CA	2:111:B:ASP:C	1	3.96
(1,40)	1:23:A:GLY:C	1:24:A:VAL:N	1:24:A:VAL:CA	1:24:A:VAL:C	7	3.95
(1,220)	2:157:B:SER:C	2:158:B:VAL:N	2:158:B:VAL:CA	2:158:B:VAL:C	8	3.94
(1,105)	2:99:B:LEU:C	2:100:B:LEU:N	2:100:B:LEU:CA	2:100:B:LEU:C	10	3.94
(1,38)	1:22:A:GLY:C	1:23:A:GLY:N	1:23:A:GLY:CA	1:23:A:GLY:C	9	3.94
(1,189)	2:141:B:TYR:C	2:142:B:CYS:N	2:142:B:CYS:CA	2:142:B:CYS:C	10	3.93

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,60)	1:34:A:ARG:C	1:35:A:ASP:N	1:35:A:ASP:CA	1:35:A:ASP:C	10	3.93
(1,149)	2:121:B:TYR:C	2:122:B:LEU:N	2:122:B:LEU:CA	2:122:B:LEU:C	10	3.91
(1,6)	1:5:A:ALA:C	1:6:A:SER:N	1:6:A:SER:CA	1:6:A:SER:C	1	3.91
(1,200)	2:147:B:LEU:N	2:147:B:LEU:CA	2:147:B:LEU:C	2:148:B:GLY:N	8	3.89
(1,166)	2:130:B:ARG:N	2:130:B:ARG:CA	2:130:B:ARG:C	2:131:B:LEU:N	8	3.88
(1,95)	2:93:B:VAL:C	2:94:B:ARG:N	2:94:B:ARG:CA	2:94:B:ARG:C	1	3.86
(1,147)	2:120:B:PHE:C	2:121:B:TYR:N	2:121:B:TYR:CA	2:121:B:TYR:C	5	3.84
(1,34)	1:20:A:SER:C	1:21:A:ALA:N	1:21:A:ALA:CA	1:21:A:ALA:C	4	3.84
(1,32)	1:19:A:LEU:C	1:20:A:SER:N	1:20:A:SER:CA	1:20:A:SER:C	2	3.84
(1,7)	1:6:A:SER:N	1:6:A:SER:CA	1:6:A:SER:C	1:7:A:LYS:N	1	3.84
(1,223)	2:159:B:LYS:N	2:159:B:LYS:CA	2:159:B:LYS:C	2:160:B:GLU:N	4	3.83
(1,148)	2:121:B:TYR:N	2:121:B:TYR:CA	2:121:B:TYR:C	2:122:B:LEU:N	3	3.83
(1,65)	1:37:A:ASP:N	1:37:A:ASP:CA	1:37:A:ASP:C	1:38:A:CYS:N	6	3.83
(1,115)	2:104:B:LYS:C	2:105:B:SER:N	2:105:B:SER:CA	2:105:B:SER:C	7	3.82
(1,51)	1:30:A:GLN:N	1:30:A:GLN:CA	1:30:A:GLN:C	1:31:A:ARG:N	4	3.82
(1,211)	2:152:B:GLY:C	2:153:B:VAL:N	2:153:B:VAL:CA	2:153:B:VAL:C	10	3.79
(1,56)	1:32:A:CYS:C	1:33:A:ARG:N	1:33:A:ARG:CA	1:33:A:ARG:C	6	3.79
(1,166)	2:130:B:ARG:N	2:130:B:ARG:CA	2:130:B:ARG:C	2:131:B:LEU:N	5	3.78
(1,147)	2:120:B:PHE:C	2:121:B:TYR:N	2:121:B:TYR:CA	2:121:B:TYR:C	3	3.74
(1,234)	2:164:B:ILE:C	2:165:B:TYR:N	2:165:B:TYR:CA	2:165:B:TYR:C	9	3.73
(1,111)	2:102:B:LEU:C	2:103:B:LEU:N	2:103:B:LEU:CA	2:103:B:LEU:C	3	3.71
(1,91)	1:50:A:CYS:C	1:51:A:GLY:N	1:51:A:GLY:CA	1:51:A:GLY:C	5	3.7
(1,61)	1:35:A:ASP:N	1:35:A:ASP:CA	1:35:A:ASP:C	1:36:A:SER:N	7	3.7
(1,51)	1:30:A:GLN:N	1:30:A:GLN:CA	1:30:A:GLN:C	1:31:A:ARG:N	1	3.69
(1,55)	1:32:A:CYS:N	1:32:A:CYS:CA	1:32:A:CYS:C	1:33:A:ARG:N	10	3.68
(1,22)	1:14:A:GLU:C	1:15:A:TYR:N	1:15:A:TYR:CA	1:15:A:TYR:C	1	3.67
(1,1)	1:1:A:SER:N	1:1:A:SER:CA	1:1:A:SER:C	1:2:A:GLY:N	2	3.66
(1,134)	2:114:B:THR:N	2:114:B:THR:CA	2:114:B:THR:C	2:115:B:MET:N	6	3.64
(1,23)	1:15:A:TYR:N	1:15:A:TYR:CA	1:15:A:TYR:C	1:16:A:TRP:N	7	3.62
(1,50)	1:29:A:LEU:C	1:30:A:GLN:N	1:30:A:GLN:CA	1:30:A:GLN:C	1	3.61
(1,224)	2:159:B:LYS:C	2:160:B:GLU:N	2:160:B:GLU:CA	2:160:B:GLU:C	4	3.6
(1,54)	1:31:A:ARG:C	1:32:A:CYS:N	1:32:A:CYS:CA	1:32:A:CYS:C	7	3.6
(1,52)	1:30:A:GLN:C	1:31:A:ARG:N	1:31:A:ARG:CA	1:31:A:ARG:C	1	3.6
(1,246)	2:170:B:ARG:C	2:171:B:ASN:N	2:171:B:ASN:CA	2:171:B:ASN:C	7	3.59
(1,214)	2:154:B:PRO:C	2:155:B:SER:N	2:155:B:SER:CA	2:155:B:SER:C	8	3.59
(1,182)	2:138:B:HIS:N	2:138:B:HIS:CA	2:138:B:HIS:C	2:139:B:ILE:N	9	3.59
(1,88)	1:49:A:TYR:N	1:49:A:TYR:CA	1:49:A:TYR:C	1:50:A:CYS:N	3	3.59
(1,46)	1:27:A:LYS:C	1:28:A:ILE:N	1:28:A:ILE:CA	1:28:A:ILE:C	4	3.58
(1,17)	1:12:A:PHE:N	1:12:A:PHE:CA	1:12:A:PHE:C	1:13:A:ALA:N	9	3.57
(1,152)	2:123:B:GLY:N	2:123:B:GLY:CA	2:123:B:GLY:C	2:124:B:GLN:N	10	3.56
(1,113)	2:103:B:LEU:C	2:104:B:LYS:N	2:104:B:LYS:CA	2:104:B:LYS:C	5	3.56
(1,238)	2:166:B:THR:C	2:167:B:MET:N	2:167:B:MET:CA	2:167:B:MET:C	6	3.55
(1,48)	1:28:A:ILE:C	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	9	3.55
(1,174)	2:134:B:GLU:N	2:134:B:GLU:CA	2:134:B:GLU:C	2:135:B:LYS:N	6	3.52
(1,127)	2:110:B:LYS:C	2:111:B:ASP:N	2:111:B:ASP:CA	2:111:B:ASP:C	4	3.52
(1,86)	1:48:A:GLY:N	1:48:A:GLY:CA	1:48:A:GLY:C	1:49:A:TYR:N	8	3.52
(1,151)	2:122:B:LEU:C	2:123:B:GLY:N	2:123:B:GLY:CA	2:123:B:GLY:C	4	3.51
(1,92)	2:92:B:LEU:N	2:92:B:LEU:CA	2:92:B:LEU:C	2:93:B:VAL:N	8	3.5
(1,215)	2:155:B:SER:N	2:155:B:SER:CA	2:155:B:SER:C	2:156:B:PHE:N	7	3.46
(1,210)	2:152:B:GLY:N	2:152:B:GLY:CA	2:152:B:GLY:C	2:153:B:VAL:N	7	3.46
(1,252)	2:173:B:VAL:C	2:174:B:VAL:N	2:174:B:VAL:CA	2:174:B:VAL:C	3	3.44

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,234)	2:164:B:ILE:C	2:165:B:TYR:N	2:165:B:TYR:CA	2:165:B:TYR:C	8	3.44
(1,183)	2:138:B:HIS:C	2:139:B:ILE:N	2:139:B:ILE:CA	2:139:B:ILE:C	3	3.44
(1,167)	2:130:B:ARG:C	2:131:B:LEU:N	2:131:B:LEU:CA	2:131:B:LEU:C	4	3.44
(1,117)	2:105:B:SER:C	2:106:B:VAL:N	2:106:B:VAL:CA	2:106:B:VAL:C	7	3.44
(1,106)	2:100:B:LEU:N	2:100:B:LEU:CA	2:100:B:LEU:C	2:101:B:LYS:N	8	3.42
(1,199)	2:146:B:LEU:C	2:147:B:LEU:N	2:147:B:LEU:CA	2:147:B:LEU:C	4	3.41
(1,95)	2:93:B:VAL:C	2:94:B:ARG:N	2:94:B:ARG:CA	2:94:B:ARG:C	2	3.41
(1,39)	1:23:A:GLY:N	1:23:A:GLY:CA	1:23:A:GLY:C	1:24:A:VAL:N	3	3.4
(1,95)	2:93:B:VAL:C	2:94:B:ARG:N	2:94:B:ARG:CA	2:94:B:ARG:C	9	3.39
(1,50)	1:29:A:LEU:C	1:30:A:GLN:N	1:30:A:GLN:CA	1:30:A:GLN:C	10	3.39
(1,226)	2:160:B:GLU:C	2:161:B:HIS:N	2:161:B:HIS:CA	2:161:B:HIS:C	4	3.37
(1,246)	2:170:B:ARG:C	2:171:B:ASN:N	2:171:B:ASN:CA	2:171:B:ASN:C	1	3.36
(1,147)	2:120:B:PHE:C	2:121:B:TYR:N	2:121:B:TYR:CA	2:121:B:TYR:C	4	3.36
(1,216)	2:155:B:SER:C	2:156:B:PHE:N	2:156:B:PHE:CA	2:156:B:PHE:C	1	3.34
(1,64)	1:36:A:SER:C	1:37:A:ASP:N	1:37:A:ASP:CA	1:37:A:ASP:C	1	3.34
(1,112)	2:103:B:LEU:N	2:103:B:LEU:CA	2:103:B:LEU:C	2:104:B:LYS:N	4	3.33
(1,218)	2:156:B:PHE:C	2:157:B:SER:N	2:157:B:SER:CA	2:157:B:SER:C	3	3.3
(1,252)	2:173:B:VAL:C	2:174:B:VAL:N	2:174:B:VAL:CA	2:174:B:VAL:C	10	3.29
(1,57)	1:33:A:ARG:N	1:33:A:ARG:CA	1:33:A:ARG:C	1:34:A:ARG:N	5	3.28
(1,54)	1:31:A:ARG:C	1:32:A:CYS:N	1:32:A:CYS:CA	1:32:A:CYS:C	3	3.28
(1,78)	1:44:A:CYS:N	1:44:A:CYS:CA	1:44:A:CYS:C	1:45:A:ARG:N	3	3.26
(1,92)	2:92:B:LEU:N	2:92:B:LEU:CA	2:92:B:LEU:C	2:93:B:VAL:N	7	3.25
(1,32)	1:19:A:LEU:C	1:20:A:SER:N	1:20:A:SER:CA	1:20:A:SER:C	3	3.25
(1,234)	2:164:B:ILE:C	2:165:B:TYR:N	2:165:B:TYR:CA	2:165:B:TYR:C	2	3.21
(1,174)	2:134:B:GLU:N	2:134:B:GLU:CA	2:134:B:GLU:C	2:135:B:LYS:N	2	3.21
(1,192)	2:143:B:SER:N	2:143:B:SER:CA	2:143:B:SER:C	2:144:B:ASN:N	3	3.2
(1,116)	2:105:B:SER:N	2:105:B:SER:CA	2:105:B:SER:C	2:106:B:VAL:N	2	3.2
(1,85)	1:47:A:ASN:C	1:48:A:GLY:N	1:48:A:GLY:CA	1:48:A:GLY:C	7	3.2
(1,103)	2:98:B:LEU:C	2:99:B:LEU:N	2:99:B:LEU:CA	2:99:B:LEU:C	4	3.18
(1,23)	1:15:A:TYR:N	1:15:A:TYR:CA	1:15:A:TYR:C	1:16:A:TRP:N	10	3.17
(1,139)	2:116:B:LYS:C	2:117:B:GLU:N	2:117:B:GLU:CA	2:117:B:GLU:C	2	3.16
(1,240)	2:167:B:MET:C	2:168:B:ILE:N	2:168:B:ILE:CA	2:168:B:ILE:C	8	3.15
(1,193)	2:143:B:SER:C	2:144:B:ASN:N	2:144:B:ASN:CA	2:144:B:ASN:C	3	3.15
(1,57)	1:33:A:ARG:N	1:33:A:ARG:CA	1:33:A:ARG:C	1:34:A:ARG:N	7	3.15
(1,226)	2:160:B:GLU:C	2:161:B:HIS:N	2:161:B:HIS:CA	2:161:B:HIS:C	6	3.14
(1,23)	1:15:A:TYR:N	1:15:A:TYR:CA	1:15:A:TYR:C	1:16:A:TRP:N	4	3.14
(1,50)	1:29:A:LEU:C	1:30:A:GLN:N	1:30:A:GLN:CA	1:30:A:GLN:C	9	3.13
(1,121)	2:107:B:GLY:C	2:108:B:ALA:N	2:108:B:ALA:CA	2:108:B:ALA:C	8	3.09
(1,55)	1:32:A:CYS:N	1:32:A:CYS:CA	1:32:A:CYS:C	1:33:A:ARG:N	6	3.08
(1,75)	1:42:A:CYS:C	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	1	3.07
(1,190)	2:142:B:CYS:N	2:142:B:CYS:CA	2:142:B:CYS:C	2:143:B:SER:N	2	3.06
(1,145)	2:119:B:LEU:C	2:120:B:PHE:N	2:120:B:PHE:CA	2:120:B:PHE:C	8	3.05
(1,51)	1:30:A:GLN:N	1:30:A:GLN:CA	1:30:A:GLN:C	1:31:A:ARG:N	10	3.05
(1,133)	2:113:B:TYR:C	2:114:B:THR:N	2:114:B:THR:CA	2:114:B:THR:C	10	3.04
(1,55)	1:32:A:CYS:N	1:32:A:CYS:CA	1:32:A:CYS:C	1:33:A:ARG:N	3	3.04
(1,145)	2:119:B:LEU:C	2:120:B:PHE:N	2:120:B:PHE:CA	2:120:B:PHE:C	1	3.03
(1,106)	2:100:B:LEU:N	2:100:B:LEU:CA	2:100:B:LEU:C	2:101:B:LYS:N	5	3.03
(1,106)	2:100:B:LEU:N	2:100:B:LEU:CA	2:100:B:LEU:C	2:101:B:LYS:N	6	3.03
(1,55)	1:32:A:CYS:N	1:32:A:CYS:CA	1:32:A:CYS:C	1:33:A:ARG:N	2	3.02
(1,33)	1:20:A:SER:N	1:20:A:SER:CA	1:20:A:SER:C	1:21:A:ALA:N	2	3.02
(1,128)	2:111:B:ASP:N	2:111:B:ASP:CA	2:111:B:ASP:C	2:112:B:THR:N	10	3.01

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,47)	1:28:A:ILE:N	1:28:A:ILE:CA	1:28:A:ILE:C	1:29:A:LEU:N	8	3.01
(1,53)	1:31:A:ARG:N	1:31:A:ARG:CA	1:31:A:ARG:C	1:32:A:CYS:N	4	2.98
(1,98)	2:95:B:PRO:C	2:96:B:LYS:N	2:96:B:LYS:CA	2:96:B:LYS:C	4	2.97
(1,170)	2:132:B:TYR:N	2:132:B:TYR:CA	2:132:B:TYR:C	2:133:B:ASP:N	10	2.96
(1,150)	2:122:B:LEU:N	2:122:B:LEU:CA	2:122:B:LEU:C	2:123:B:GLY:N	5	2.96
(1,136)	2:115:B:MET:N	2:115:B:MET:CA	2:115:B:MET:C	2:116:B:LYS:N	7	2.95
(1,55)	1:32:A:CYS:N	1:32:A:CYS:CA	1:32:A:CYS:C	1:33:A:ARG:N	1	2.95
(1,176)	2:135:B:LYS:N	2:135:B:LYS:CA	2:135:B:LYS:C	2:136:B:GLN:N	7	2.92
(1,106)	2:100:B:LEU:N	2:100:B:LEU:CA	2:100:B:LEU:C	2:101:B:LYS:N	10	2.91
(1,98)	2:95:B:PRO:C	2:96:B:LYS:N	2:96:B:LYS:CA	2:96:B:LYS:C	5	2.91
(1,229)	2:162:B:ARG:N	2:162:B:ARG:CA	2:162:B:ARG:C	2:163:B:LYS:N	6	2.9
(1,151)	2:122:B:LEU:C	2:123:B:GLY:N	2:123:B:GLY:CA	2:123:B:GLY:C	6	2.89
(1,189)	2:141:B:TYR:C	2:142:B:CYS:N	2:142:B:CYS:CA	2:142:B:CYS:C	1	2.88
(1,18)	1:12:A:PHE:C	1:13:A:ALA:N	1:13:A:ALA:CA	1:13:A:ALA:C	9	2.87
(1,98)	2:95:B:PRO:C	2:96:B:LYS:N	2:96:B:LYS:CA	2:96:B:LYS:C	3	2.86
(1,231)	2:163:B:LYS:N	2:163:B:LYS:CA	2:163:B:LYS:C	2:164:B:ILE:N	5	2.85
(1,63)	1:36:A:SER:N	1:36:A:SER:CA	1:36:A:SER:C	1:37:A:ASP:N	2	2.85
(1,26)	1:16:A:TRP:C	1:17:A:ASN:N	1:17:A:ASN:CA	1:17:A:ASN:C	1	2.85
(1,18)	1:12:A:PHE:C	1:13:A:ALA:N	1:13:A:ALA:CA	1:13:A:ALA:C	8	2.83
(1,172)	2:133:B:ASP:N	2:133:B:ASP:CA	2:133:B:ASP:C	2:134:B:GLU:N	2	2.82
(1,66)	1:37:A:ASP:C	1:38:A:CYS:N	1:38:A:CYS:CA	1:38:A:CYS:C	4	2.81
(1,200)	2:147:B:LEU:N	2:147:B:LEU:CA	2:147:B:LEU:C	2:148:B:GLY:N	4	2.79
(1,23)	1:15:A:TYR:N	1:15:A:TYR:CA	1:15:A:TYR:C	1:16:A:TRP:N	1	2.79
(1,226)	2:160:B:GLU:C	2:161:B:HIS:N	2:161:B:HIS:CA	2:161:B:HIS:C	1	2.78
(1,93)	2:92:B:LEU:C	2:93:B:VAL:N	2:93:B:VAL:CA	2:93:B:VAL:C	5	2.78
(1,142)	2:118:B:VAL:N	2:118:B:VAL:CA	2:118:B:VAL:C	2:119:B:LEU:N	3	2.77
(1,105)	2:99:B:LEU:C	2:100:B:LEU:N	2:100:B:LEU:CA	2:100:B:LEU:C	1	2.77
(1,238)	2:166:B:THR:C	2:167:B:MET:N	2:167:B:MET:CA	2:167:B:MET:C	8	2.76
(1,133)	2:113:B:TYR:C	2:114:B:THR:N	2:114:B:THR:CA	2:114:B:THR:C	4	2.76
(1,150)	2:122:B:LEU:N	2:122:B:LEU:CA	2:122:B:LEU:C	2:123:B:GLY:N	10	2.75
(1,107)	2:100:B:LEU:C	2:101:B:LYS:N	2:101:B:LYS:CA	2:101:B:LYS:C	3	2.74
(1,105)	2:99:B:LEU:C	2:100:B:LEU:N	2:100:B:LEU:CA	2:100:B:LEU:C	2	2.74
(1,152)	2:123:B:GLY:N	2:123:B:GLY:CA	2:123:B:GLY:C	2:124:B:GLN:N	9	2.73
(1,138)	2:116:B:LYS:N	2:116:B:LYS:CA	2:116:B:LYS:C	2:117:B:GLU:N	4	2.73
(1,73)	1:41:A:ALA:C	1:42:A:CYS:N	1:42:A:CYS:CA	1:42:A:CYS:C	2	2.73
(1,22)	1:14:A:GLU:C	1:15:A:TYR:N	1:15:A:TYR:CA	1:15:A:TYR:C	8	2.73
(1,217)	2:156:B:PHE:N	2:156:B:PHE:CA	2:156:B:PHE:C	2:157:B:SER:N	9	2.72
(1,93)	2:92:B:LEU:C	2:93:B:VAL:N	2:93:B:VAL:CA	2:93:B:VAL:C	1	2.7
(1,93)	2:92:B:LEU:C	2:93:B:VAL:N	2:93:B:VAL:CA	2:93:B:VAL:C	9	2.7
(1,90)	1:50:A:CYS:N	1:50:A:CYS:CA	1:50:A:CYS:C	1:51:A:GLY:N	6	2.7
(1,243)	2:169:B:TYR:N	2:169:B:TYR:CA	2:169:B:TYR:C	2:170:B:ARG:N	3	2.69
(1,147)	2:120:B:PHE:C	2:121:B:TYR:N	2:121:B:TYR:CA	2:121:B:TYR:C	8	2.68
(1,57)	1:33:A:ARG:N	1:33:A:ARG:CA	1:33:A:ARG:C	1:34:A:ARG:N	8	2.67
(1,112)	2:103:B:LEU:N	2:103:B:LEU:CA	2:103:B:LEU:C	2:104:B:LYS:N	6	2.66
(1,29)	1:18:A:LEU:N	1:18:A:LEU:CA	1:18:A:LEU:C	1:19:A:LEU:N	9	2.66
(1,221)	2:158:B:VAL:N	2:158:B:VAL:CA	2:158:B:VAL:C	2:159:B:LYS:N	9	2.65
(1,199)	2:146:B:LEU:C	2:147:B:LEU:N	2:147:B:LEU:CA	2:147:B:LEU:C	3	2.65
(1,251)	2:173:B:VAL:N	2:173:B:VAL:CA	2:173:B:VAL:C	2:174:B:VAL:N	4	2.63
(1,170)	2:132:B:TYR:N	2:132:B:TYR:CA	2:132:B:TYR:C	2:133:B:ASP:N	2	2.63
(1,15)	1:11:A:SER:N	1:11:A:SER:CA	1:11:A:SER:C	1:12:A:PHE:N	2	2.63
(1,13)	1:10:A:THR:N	1:10:A:THR:CA	1:10:A:THR:C	1:11:A:SER:N	4	2.63

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,37)	1:22:A:GLY:N	1:22:A:GLY:CA	1:22:A:GLY:C	1:23:A:GLY:N	2	2.62
(1,5)	1:5:A:ALA:N	1:5:A:ALA:CA	1:5:A:ALA:C	1:6:A:SER:N	3	2.62
(1,226)	2:160:B:GLU:C	2:161:B:HIS:N	2:161:B:HIS:CA	2:161:B:HIS:C	9	2.6
(1,200)	2:147:B:LEU:N	2:147:B:LEU:CA	2:147:B:LEU:C	2:148:B:GLY:N	9	2.6
(1,151)	2:122:B:LEU:C	2:123:B:GLY:N	2:123:B:GLY:CA	2:123:B:GLY:C	8	2.6
(1,37)	1:22:A:GLY:N	1:22:A:GLY:CA	1:22:A:GLY:C	1:23:A:GLY:N	9	2.6
(1,46)	1:27:A:LYS:C	1:28:A:ILE:N	1:28:A:ILE:CA	1:28:A:ILE:C	1	2.59
(1,167)	2:130:B:ARG:C	2:131:B:LEU:N	2:131:B:LEU:CA	2:131:B:LEU:C	6	2.58
(1,125)	2:109:B:GLN:C	2:110:B:LYS:N	2:110:B:LYS:CA	2:110:B:LYS:C	6	2.58
(1,201)	2:147:B:LEU:C	2:148:B:GLY:N	2:148:B:GLY:CA	2:148:B:GLY:C	5	2.57
(1,117)	2:105:B:SER:C	2:106:B:VAL:N	2:106:B:VAL:CA	2:106:B:VAL:C	9	2.56
(1,34)	1:20:A:SER:C	1:21:A:ALA:N	1:21:A:ALA:CA	1:21:A:ALA:C	10	2.56
(1,178)	2:136:B:GLN:N	2:136:B:GLN:CA	2:136:B:GLN:C	2:137:B:GLN:N	10	2.55
(1,149)	2:121:B:TYR:C	2:122:B:LEU:N	2:122:B:LEU:CA	2:122:B:LEU:C	1	2.54
(1,102)	2:98:B:LEU:N	2:98:B:LEU:CA	2:98:B:LEU:C	2:99:B:LEU:N	9	2.54
(1,251)	2:173:B:VAL:N	2:173:B:VAL:CA	2:173:B:VAL:C	2:174:B:VAL:N	9	2.53
(1,207)	2:150:B:LEU:C	2:151:B:PHE:N	2:151:B:PHE:CA	2:151:B:PHE:C	1	2.52
(1,150)	2:122:B:LEU:N	2:122:B:LEU:CA	2:122:B:LEU:C	2:123:B:GLY:N	8	2.52
(1,71)	1:40:A:GLY:C	1:41:A:ALA:N	1:41:A:ALA:CA	1:41:A:ALA:C	10	2.52
(1,24)	1:15:A:TYR:C	1:16:A:TRP:N	1:16:A:TRP:CA	1:16:A:TRP:C	3	2.5
(1,27)	1:17:A:ASN:N	1:17:A:ASN:CA	1:17:A:ASN:C	1:18:A:LEU:N	6	2.49
(1,114)	2:104:B:LYS:N	2:104:B:LYS:CA	2:104:B:LYS:C	2:105:B:SER:N	3	2.48
(1,10)	1:7:A:LYS:C	1:8:A:ALA:N	1:8:A:ALA:CA	1:8:A:ALA:C	6	2.48
(1,158)	2:126:B:ILE:N	2:126:B:ILE:CA	2:126:B:ILE:C	2:127:B:MET:N	1	2.47
(1,130)	2:112:B:THR:N	2:112:B:THR:CA	2:112:B:THR:C	2:113:B:TYR:N	3	2.47
(1,78)	1:44:A:CYS:N	1:44:A:CYS:CA	1:44:A:CYS:C	1:45:A:ARG:N	2	2.47
(1,170)	2:132:B:TYR:N	2:132:B:TYR:CA	2:132:B:TYR:C	2:133:B:ASP:N	8	2.46
(1,19)	1:13:A:ALA:N	1:13:A:ALA:CA	1:13:A:ALA:C	1:14:A:GLU:N	4	2.46
(1,3)	1:3:A:SER:N	1:3:A:SER:CA	1:3:A:SER:C	1:4:A:GLY:N	9	2.46
(1,236)	2:165:B:TYR:C	2:166:B:THR:N	2:166:B:THR:CA	2:166:B:THR:C	7	2.45
(1,103)	2:98:B:LEU:C	2:99:B:LEU:N	2:99:B:LEU:CA	2:99:B:LEU:C	5	2.45
(1,199)	2:146:B:LEU:C	2:147:B:LEU:N	2:147:B:LEU:CA	2:147:B:LEU:C	10	2.44
(1,66)	1:37:A:ASP:C	1:38:A:CYS:N	1:38:A:CYS:CA	1:38:A:CYS:C	3	2.44
(1,145)	2:119:B:LEU:C	2:120:B:PHE:N	2:120:B:PHE:CA	2:120:B:PHE:C	5	2.41
(1,23)	1:15:A:TYR:N	1:15:A:TYR:CA	1:15:A:TYR:C	1:16:A:TRP:N	8	2.41
(1,30)	1:18:A:LEU:C	1:19:A:LEU:N	1:19:A:LEU:CA	1:19:A:LEU:C	7	2.4
(1,70)	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	1:41:A:ALA:N	2	2.35
(1,8)	1:6:A:SER:C	1:7:A:LYS:N	1:7:A:LYS:CA	1:7:A:LYS:C	2	2.35
(1,222)	2:158:B:VAL:C	2:159:B:LYS:N	2:159:B:LYS:CA	2:159:B:LYS:C	10	2.31
(1,211)	2:152:B:GLY:C	2:153:B:VAL:N	2:153:B:VAL:CA	2:153:B:VAL:C	1	2.31
(1,111)	2:102:B:LEU:C	2:103:B:LEU:N	2:103:B:LEU:CA	2:103:B:LEU:C	5	2.31
(1,237)	2:166:B:THR:N	2:166:B:THR:CA	2:166:B:THR:C	2:167:B:MET:N	8	2.23
(1,218)	2:156:B:PHE:C	2:157:B:SER:N	2:157:B:SER:CA	2:157:B:SER:C	4	2.23
(1,94)	2:93:B:VAL:N	2:93:B:VAL:CA	2:93:B:VAL:C	2:94:B:ARG:N	7	2.22
(1,217)	2:156:B:PHE:N	2:156:B:PHE:CA	2:156:B:PHE:C	2:157:B:SER:N	4	2.21
(1,60)	1:34:A:ARG:C	1:35:A:ASP:N	1:35:A:ASP:CA	1:35:A:ASP:C	1	2.2
(1,35)	1:21:A:ALA:N	1:21:A:ALA:CA	1:21:A:ALA:C	1:22:A:GLY:N	1	2.19
(1,235)	2:165:B:TYR:N	2:165:B:TYR:CA	2:165:B:TYR:C	2:166:B:THR:N	8	2.17
(1,232)	2:163:B:LYS:C	2:164:B:ILE:N	2:164:B:ILE:CA	2:164:B:ILE:C	2	2.17
(1,226)	2:160:B:GLU:C	2:161:B:HIS:N	2:161:B:HIS:CA	2:161:B:HIS:C	3	2.17
(1,34)	1:20:A:SER:C	1:21:A:ALA:N	1:21:A:ALA:CA	1:21:A:ALA:C	8	2.17

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,229)	2:162:B:ARG:N	2:162:B:ARG:CA	2:162:B:ARG:C	2:163:B:LYS:N	7	2.15
(1,157)	2:125:B:TYR:C	2:126:B:ILE:N	2:126:B:ILE:CA	2:126:B:ILE:C	9	2.12
(1,55)	1:32:A:CYS:N	1:32:A:CYS:CA	1:32:A:CYS:C	1:33:A:ARG:N	7	2.1
(1,148)	2:121:B:TYR:N	2:121:B:TYR:CA	2:121:B:TYR:C	2:122:B:LEU:N	1	2.09
(1,107)	2:100:B:LEU:C	2:101:B:LYS:N	2:101:B:LYS:CA	2:101:B:LYS:C	7	2.08
(1,192)	2:143:B:SER:N	2:143:B:SER:CA	2:143:B:SER:C	2:144:B:ASN:N	9	2.07
(1,22)	1:14:A:GLU:C	1:15:A:TYR:N	1:15:A:TYR:CA	1:15:A:TYR:C	9	2.07
(1,144)	2:119:B:LEU:N	2:119:B:LEU:CA	2:119:B:LEU:C	2:120:B:PHE:N	6	2.05
(1,50)	1:29:A:LEU:C	1:30:A:GLN:N	1:30:A:GLN:CA	1:30:A:GLN:C	4	2.05
(1,237)	2:166:B:THR:N	2:166:B:THR:CA	2:166:B:THR:C	2:167:B:MET:N	2	2.04
(1,110)	2:102:B:LEU:N	2:102:B:LEU:CA	2:102:B:LEU:C	2:103:B:LEU:N	2	2.03
(1,22)	1:14:A:GLU:C	1:15:A:TYR:N	1:15:A:TYR:CA	1:15:A:TYR:C	4	2.01
(1,154)	2:124:B:GLN:N	2:124:B:GLN:CA	2:124:B:GLN:C	2:125:B:TYR:N	7	2.0
(1,105)	2:99:B:LEU:C	2:100:B:LEU:N	2:100:B:LEU:CA	2:100:B:LEU:C	8	1.98
(1,45)	1:27:A:LYS:N	1:27:A:LYS:CA	1:27:A:LYS:C	1:28:A:ILE:N	2	1.96
(1,200)	2:147:B:LEU:N	2:147:B:LEU:CA	2:147:B:LEU:C	2:148:B:GLY:N	1	1.95
(1,157)	2:125:B:TYR:C	2:126:B:ILE:N	2:126:B:ILE:CA	2:126:B:ILE:C	5	1.95
(1,157)	2:125:B:TYR:C	2:126:B:ILE:N	2:126:B:ILE:CA	2:126:B:ILE:C	4	1.94
(1,20)	1:13:A:ALA:C	1:14:A:GLU:N	1:14:A:GLU:CA	1:14:A:GLU:C	9	1.94
(1,149)	2:121:B:TYR:C	2:122:B:LEU:N	2:122:B:LEU:CA	2:122:B:LEU:C	8	1.93
(1,211)	2:152:B:GLY:C	2:153:B:VAL:N	2:153:B:VAL:CA	2:153:B:VAL:C	2	1.92
(1,108)	2:101:B:LYS:N	2:101:B:LYS:CA	2:101:B:LYS:C	2:102:B:LEU:N	4	1.91
(1,47)	1:28:A:ILE:N	1:28:A:ILE:CA	1:28:A:ILE:C	1:29:A:LEU:N	6	1.9
(1,5)	1:5:A:ALA:N	1:5:A:ALA:CA	1:5:A:ALA:C	1:6:A:SER:N	2	1.9
(1,132)	2:113:B:TYR:N	2:113:B:TYR:CA	2:113:B:TYR:C	2:114:B:THR:N	10	1.89
(1,30)	1:18:A:LEU:C	1:19:A:LEU:N	1:19:A:LEU:CA	1:19:A:LEU:C	2	1.89
(1,9)	1:7:A:LYS:N	1:7:A:LYS:CA	1:7:A:LYS:C	1:8:A:ALA:N	10	1.89
(1,2)	1:2:A:GLY:C	1:3:A:SER:N	1:3:A:SER:CA	1:3:A:SER:C	5	1.88
(1,236)	2:165:B:TYR:C	2:166:B:THR:N	2:166:B:THR:CA	2:166:B:THR:C	1	1.87
(1,234)	2:164:B:ILE:C	2:165:B:TYR:N	2:165:B:TYR:CA	2:165:B:TYR:C	5	1.87
(1,180)	2:137:B:GLN:N	2:137:B:GLN:CA	2:137:B:GLN:C	2:138:B:HIS:N	4	1.87
(1,88)	1:49:A:TYR:N	1:49:A:TYR:CA	1:49:A:TYR:C	1:50:A:CYS:N	2	1.87
(1,232)	2:163:B:LYS:C	2:164:B:ILE:N	2:164:B:ILE:CA	2:164:B:ILE:C	8	1.86
(1,174)	2:134:B:GLU:N	2:134:B:GLU:CA	2:134:B:GLU:C	2:135:B:LYS:N	7	1.84
(1,144)	2:119:B:LEU:N	2:119:B:LEU:CA	2:119:B:LEU:C	2:120:B:PHE:N	7	1.84
(1,185)	2:139:B:ILE:C	2:140:B:VAL:N	2:140:B:VAL:CA	2:140:B:VAL:C	7	1.83
(1,135)	2:114:B:THR:C	2:115:B:MET:N	2:115:B:MET:CA	2:115:B:MET:C	7	1.83
(1,110)	2:102:B:LEU:N	2:102:B:LEU:CA	2:102:B:LEU:C	2:103:B:LEU:N	7	1.82
(1,248)	2:171:B:ASN:C	2:172:B:LEU:N	2:172:B:LEU:CA	2:172:B:LEU:C	3	1.8
(1,232)	2:163:B:LYS:C	2:164:B:ILE:N	2:164:B:ILE:CA	2:164:B:ILE:C	4	1.8
(1,113)	2:103:B:LEU:C	2:104:B:LYS:N	2:104:B:LYS:CA	2:104:B:LYS:C	8	1.8
(1,63)	1:36:A:SER:N	1:36:A:SER:CA	1:36:A:SER:C	1:37:A:ASP:N	4	1.79
(1,50)	1:29:A:LEU:C	1:30:A:GLN:N	1:30:A:GLN:CA	1:30:A:GLN:C	8	1.77
(1,150)	2:122:B:LEU:N	2:122:B:LEU:CA	2:122:B:LEU:C	2:123:B:GLY:N	1	1.76
(1,185)	2:139:B:ILE:C	2:140:B:VAL:N	2:140:B:VAL:CA	2:140:B:VAL:C	3	1.75
(1,139)	2:116:B:LYS:C	2:117:B:GLU:N	2:117:B:GLU:CA	2:117:B:GLU:C	10	1.75
(1,150)	2:122:B:LEU:N	2:122:B:LEU:CA	2:122:B:LEU:C	2:123:B:GLY:N	3	1.74
(1,113)	2:103:B:LEU:C	2:104:B:LYS:N	2:104:B:LYS:CA	2:104:B:LYS:C	6	1.74
(1,86)	1:48:A:GLY:N	1:48:A:GLY:CA	1:48:A:GLY:C	1:49:A:TYR:N	7	1.74
(1,250)	2:172:B:LEU:C	2:173:B:VAL:N	2:173:B:VAL:CA	2:173:B:VAL:C	10	1.72
(1,230)	2:162:B:ARG:C	2:163:B:LYS:N	2:163:B:LYS:CA	2:163:B:LYS:C	10	1.72

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,175)	2:134:B:GLU:C	2:135:B:LYS:N	2:135:B:LYS:CA	2:135:B:LYS:C	6	1.72
(1,174)	2:134:B:GLU:N	2:134:B:GLU:CA	2:134:B:GLU:C	2:135:B:LYS:N	8	1.72
(1,157)	2:125:B:TYR:C	2:126:B:ILE:N	2:126:B:ILE:CA	2:126:B:ILE:C	1	1.71
(1,95)	2:93:B:VAL:C	2:94:B:ARG:N	2:94:B:ARG:CA	2:94:B:ARG:C	4	1.71
(1,249)	2:172:B:LEU:N	2:172:B:LEU:CA	2:172:B:LEU:C	2:173:B:VAL:N	8	1.7
(1,221)	2:158:B:VAL:N	2:158:B:VAL:CA	2:158:B:VAL:C	2:159:B:LYS:N	8	1.7
(1,79)	1:44:A:CYS:C	1:45:A:ARG:N	1:45:A:ARG:CA	1:45:A:ARG:C	1	1.7
(1,49)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	1:30:A:GLN:N	2	1.7
(1,232)	2:163:B:LYS:C	2:164:B:ILE:N	2:164:B:ILE:CA	2:164:B:ILE:C	10	1.67
(1,151)	2:122:B:LEU:C	2:123:B:GLY:N	2:123:B:GLY:CA	2:123:B:GLY:C	2	1.67
(1,149)	2:121:B:TYR:C	2:122:B:LEU:N	2:122:B:LEU:CA	2:122:B:LEU:C	6	1.67
(1,235)	2:165:B:TYR:N	2:165:B:TYR:CA	2:165:B:TYR:C	2:166:B:THR:N	4	1.66
(1,149)	2:121:B:TYR:C	2:122:B:LEU:N	2:122:B:LEU:CA	2:122:B:LEU:C	5	1.66
(1,64)	1:36:A:SER:C	1:37:A:ASP:N	1:37:A:ASP:CA	1:37:A:ASP:C	6	1.65
(1,15)	1:11:A:SER:N	1:11:A:SER:CA	1:11:A:SER:C	1:12:A:PHE:N	5	1.64
(1,148)	2:121:B:TYR:N	2:121:B:TYR:CA	2:121:B:TYR:C	2:122:B:LEU:N	9	1.63
(1,86)	1:48:A:GLY:N	1:48:A:GLY:CA	1:48:A:GLY:C	1:49:A:TYR:N	1	1.62
(1,61)	1:35:A:ASP:N	1:35:A:ASP:CA	1:35:A:ASP:C	1:36:A:SER:N	3	1.62
(1,23)	1:15:A:TYR:N	1:15:A:TYR:CA	1:15:A:TYR:C	1:16:A:TRP:N	3	1.62
(1,220)	2:157:B:SER:C	2:158:B:VAL:N	2:158:B:VAL:CA	2:158:B:VAL:C	5	1.61
(1,157)	2:125:B:TYR:C	2:126:B:ILE:N	2:126:B:ILE:CA	2:126:B:ILE:C	10	1.59
(1,144)	2:119:B:LEU:N	2:119:B:LEU:CA	2:119:B:LEU:C	2:120:B:PHE:N	8	1.59
(1,178)	2:136:B:GLN:N	2:136:B:GLN:CA	2:136:B:GLN:C	2:137:B:GLN:N	1	1.57
(1,147)	2:120:B:PHE:C	2:121:B:TYR:N	2:121:B:TYR:CA	2:121:B:TYR:C	1	1.57
(1,111)	2:102:B:LEU:C	2:103:B:LEU:N	2:103:B:LEU:CA	2:103:B:LEU:C	7	1.56
(1,73)	1:41:A:ALA:C	1:42:A:CYS:N	1:42:A:CYS:CA	1:42:A:CYS:C	8	1.56
(1,212)	2:153:B:VAL:N	2:153:B:VAL:CA	2:153:B:VAL:C	2:154:B:PRO:N	9	1.54
(1,171)	2:132:B:TYR:C	2:133:B:ASP:N	2:133:B:ASP:CA	2:133:B:ASP:C	8	1.54
(1,93)	2:92:B:LEU:C	2:93:B:VAL:N	2:93:B:VAL:CA	2:93:B:VAL:C	6	1.53
(1,107)	2:100:B:LEU:C	2:101:B:LYS:N	2:101:B:LYS:CA	2:101:B:LYS:C	4	1.51
(1,215)	2:155:B:SER:N	2:155:B:SER:CA	2:155:B:SER:C	2:156:B:PHE:N	4	1.5
(1,119)	2:106:B:VAL:C	2:107:B:GLY:N	2:107:B:GLY:CA	2:107:B:GLY:C	9	1.5
(1,45)	1:27:A:LYS:N	1:27:A:LYS:CA	1:27:A:LYS:C	1:28:A:ILE:N	3	1.49
(1,12)	1:9:A:PRO:C	1:10:A:THR:N	1:10:A:THR:CA	1:10:A:THR:C	7	1.49
(1,202)	2:148:B:GLY:N	2:148:B:GLY:CA	2:148:B:GLY:C	2:149:B:ASP:N	9	1.48
(1,110)	2:102:B:LEU:N	2:102:B:LEU:CA	2:102:B:LEU:C	2:103:B:LEU:N	8	1.48
(1,102)	2:98:B:LEU:N	2:98:B:LEU:CA	2:98:B:LEU:C	2:99:B:LEU:N	4	1.48
(1,94)	2:93:B:VAL:N	2:93:B:VAL:CA	2:93:B:VAL:C	2:94:B:ARG:N	4	1.48
(1,89)	1:49:A:TYR:C	1:50:A:CYS:N	1:50:A:CYS:CA	1:50:A:CYS:C	8	1.47
(1,235)	2:165:B:TYR:N	2:165:B:TYR:CA	2:165:B:TYR:C	2:166:B:THR:N	1	1.46
(1,131)	2:112:B:THR:C	2:113:B:TYR:N	2:113:B:TYR:CA	2:113:B:TYR:C	4	1.46
(1,111)	2:102:B:LEU:C	2:103:B:LEU:N	2:103:B:LEU:CA	2:103:B:LEU:C	9	1.45
(1,110)	2:102:B:LEU:N	2:102:B:LEU:CA	2:102:B:LEU:C	2:103:B:LEU:N	4	1.45
(1,48)	1:28:A:ILE:C	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	5	1.45
(1,112)	2:103:B:LEU:N	2:103:B:LEU:CA	2:103:B:LEU:C	2:104:B:LYS:N	7	1.44
(1,111)	2:102:B:LEU:C	2:103:B:LEU:N	2:103:B:LEU:CA	2:103:B:LEU:C	8	1.44
(1,147)	2:120:B:PHE:C	2:121:B:TYR:N	2:121:B:TYR:CA	2:121:B:TYR:C	2	1.43
(1,111)	2:102:B:LEU:C	2:103:B:LEU:N	2:103:B:LEU:CA	2:103:B:LEU:C	2	1.42
(1,38)	1:22:A:GLY:C	1:23:A:GLY:N	1:23:A:GLY:CA	1:23:A:GLY:C	3	1.42
(1,210)	2:152:B:GLY:N	2:152:B:GLY:CA	2:152:B:GLY:C	2:153:B:VAL:N	8	1.4
(1,18)	1:12:A:PHE:C	1:13:A:ALA:N	1:13:A:ALA:CA	1:13:A:ALA:C	5	1.4

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,225)	2:160:B:GLU:N	2:160:B:GLU:CA	2:160:B:GLU:C	2:161:B:HIS:N	4	1.39
(1,80)	1:45:A:ARG:N	1:45:A:ARG:CA	1:45:A:ARG:C	1:46:A:GLY:N	5	1.39
(1,59)	1:34:A:ARG:N	1:34:A:ARG:CA	1:34:A:ARG:C	1:35:A:ASP:N	6	1.39
(1,9)	1:7:A:LYS:N	1:7:A:LYS:CA	1:7:A:LYS:C	1:8:A:ALA:N	6	1.39
(1,141)	2:117:B:GLU:C	2:118:B:VAL:N	2:118:B:VAL:CA	2:118:B:VAL:C	9	1.38
(1,132)	2:113:B:TYR:N	2:113:B:TYR:CA	2:113:B:TYR:C	2:114:B:THR:N	8	1.38
(1,24)	1:15:A:TYR:C	1:16:A:TRP:N	1:16:A:TRP:CA	1:16:A:TRP:C	1	1.38
(1,236)	2:165:B:TYR:C	2:166:B:THR:N	2:166:B:THR:CA	2:166:B:THR:C	5	1.37
(1,55)	1:32:A:CYS:N	1:32:A:CYS:CA	1:32:A:CYS:C	1:33:A:ARG:N	8	1.37
(1,234)	2:164:B:ILE:C	2:165:B:TYR:N	2:165:B:TYR:CA	2:165:B:TYR:C	1	1.36
(1,60)	1:34:A:ARG:C	1:35:A:ASP:N	1:35:A:ASP:CA	1:35:A:ASP:C	6	1.35
(1,211)	2:152:B:GLY:C	2:153:B:VAL:N	2:153:B:VAL:CA	2:153:B:VAL:C	6	1.34
(1,175)	2:134:B:GLU:C	2:135:B:LYS:N	2:135:B:LYS:CA	2:135:B:LYS:C	7	1.34
(1,151)	2:122:B:LEU:C	2:123:B:GLY:N	2:123:B:GLY:CA	2:123:B:GLY:C	1	1.33
(1,79)	1:44:A:CYS:C	1:45:A:ARG:N	1:45:A:ARG:CA	1:45:A:ARG:C	2	1.33
(1,199)	2:146:B:LEU:C	2:147:B:LEU:N	2:147:B:LEU:CA	2:147:B:LEU:C	6	1.32
(1,103)	2:98:B:LEU:C	2:99:B:LEU:N	2:99:B:LEU:CA	2:99:B:LEU:C	1	1.31
(1,35)	1:21:A:ALA:N	1:21:A:ALA:CA	1:21:A:ALA:C	1:22:A:GLY:N	3	1.31
(1,194)	2:144:B:ASN:N	2:144:B:ASN:CA	2:144:B:ASN:C	2:145:B:ASP:N	3	1.3
(1,220)	2:157:B:SER:C	2:158:B:VAL:N	2:158:B:VAL:CA	2:158:B:VAL:C	1	1.29
(1,209)	2:151:B:PHE:C	2:152:B:GLY:N	2:152:B:GLY:CA	2:152:B:GLY:C	10	1.29
(1,212)	2:153:B:VAL:N	2:153:B:VAL:CA	2:153:B:VAL:C	2:154:B:PRO:N	7	1.26
(1,115)	2:104:B:LYS:C	2:105:B:SER:N	2:105:B:SER:CA	2:105:B:SER:C	8	1.25
(1,158)	2:126:B:ILE:N	2:126:B:ILE:CA	2:126:B:ILE:C	2:127:B:MET:N	9	1.24
(1,214)	2:154:B:PRO:C	2:155:B:SER:N	2:155:B:SER:CA	2:155:B:SER:C	10	1.23
(1,143)	2:118:B:VAL:C	2:119:B:LEU:N	2:119:B:LEU:CA	2:119:B:LEU:C	1	1.2
(1,15)	1:11:A:SER:N	1:11:A:SER:CA	1:11:A:SER:C	1:12:A:PHE:N	1	1.2
(1,191)	2:142:B:CYS:C	2:143:B:SER:N	2:143:B:SER:CA	2:143:B:SER:C	1	1.19
(1,166)	2:130:B:ARG:N	2:130:B:ARG:CA	2:130:B:ARG:C	2:131:B:LEU:N	4	1.19
(1,118)	2:106:B:VAL:N	2:106:B:VAL:CA	2:106:B:VAL:C	2:107:B:GLY:N	1	1.19
(1,174)	2:134:B:GLU:N	2:134:B:GLU:CA	2:134:B:GLU:C	2:135:B:LYS:N	9	1.18
(1,152)	2:123:B:GLY:N	2:123:B:GLY:CA	2:123:B:GLY:C	2:124:B:GLN:N	7	1.18
(1,189)	2:141:B:TYR:C	2:142:B:CYS:N	2:142:B:CYS:CA	2:142:B:CYS:C	7	1.16
(1,158)	2:126:B:ILE:N	2:126:B:ILE:CA	2:126:B:ILE:C	2:127:B:MET:N	6	1.15
(1,226)	2:160:B:GLU:C	2:161:B:HIS:N	2:161:B:HIS:CA	2:161:B:HIS:C	5	1.14
(1,78)	1:44:A:CYS:N	1:44:A:CYS:CA	1:44:A:CYS:C	1:45:A:ARG:N	10	1.14
(1,129)	2:111:B:ASP:C	2:112:B:THR:N	2:112:B:THR:CA	2:112:B:THR:C	9	1.13
(1,103)	2:98:B:LEU:C	2:99:B:LEU:N	2:99:B:LEU:CA	2:99:B:LEU:C	10	1.13
(1,45)	1:27:A:LYS:N	1:27:A:LYS:CA	1:27:A:LYS:C	1:28:A:ILE:N	5	1.13
(1,30)	1:18:A:LEU:C	1:19:A:LEU:N	1:19:A:LEU:CA	1:19:A:LEU:C	8	1.1
(1,38)	1:22:A:GLY:C	1:23:A:GLY:N	1:23:A:GLY:CA	1:23:A:GLY:C	2	1.09
(1,35)	1:21:A:ALA:N	1:21:A:ALA:CA	1:21:A:ALA:C	1:22:A:GLY:N	7	1.09
(1,117)	2:105:B:SER:C	2:106:B:VAL:N	2:106:B:VAL:CA	2:106:B:VAL:C	2	1.08
(1,110)	2:102:B:LEU:N	2:102:B:LEU:CA	2:102:B:LEU:C	2:103:B:LEU:N	1	1.08
(1,219)	2:157:B:SER:N	2:157:B:SER:CA	2:157:B:SER:C	2:158:B:VAL:N	1	1.07
(1,193)	2:143:B:SER:C	2:144:B:ASN:N	2:144:B:ASN:CA	2:144:B:ASN:C	9	1.07
(1,248)	2:171:B:ASN:C	2:172:B:LEU:N	2:172:B:LEU:CA	2:172:B:LEU:C	2	1.06
(1,222)	2:158:B:VAL:C	2:159:B:LYS:N	2:159:B:LYS:CA	2:159:B:LYS:C	4	1.05
(1,206)	2:150:B:LEU:N	2:150:B:LEU:CA	2:150:B:LEU:C	2:151:B:PHE:N	5	1.05
(1,172)	2:133:B:ASP:N	2:133:B:ASP:CA	2:133:B:ASP:C	2:134:B:GLU:N	8	1.05
(1,245)	2:170:B:ARG:N	2:170:B:ARG:CA	2:170:B:ARG:C	2:171:B:ASN:N	3	1.04

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,227)	2:161:B:HIS:N	2:161:B:HIS:CA	2:161:B:HIS:C	2:162:B:ARG:N	6	1.04
(1,54)	1:31:A:ARG:C	1:32:A:CYS:N	1:32:A:CYS:CA	1:32:A:CYS:C	8	1.04
(1,166)	2:130:B:ARG:N	2:130:B:ARG:CA	2:130:B:ARG:C	2:131:B:LEU:N	3	1.03
(1,35)	1:21:A:ALA:N	1:21:A:ALA:CA	1:21:A:ALA:C	1:22:A:GLY:N	2	1.02
(1,247)	2:171:B:ASN:N	2:171:B:ASN:CA	2:171:B:ASN:C	2:172:B:LEU:N	6	1.01
(1,157)	2:125:B:TYR:C	2:126:B:ILE:N	2:126:B:ILE:CA	2:126:B:ILE:C	2	1.01
(1,34)	1:20:A:SER:C	1:21:A:ALA:N	1:21:A:ALA:CA	1:21:A:ALA:C	3	1.0