



Full wwPDB NMR Structure Validation Report ⓘ

Feb 28, 2026 – 10:32 PM UTC

PDB ID : 4BS2 / pdb_00004bs2
BMRB ID : 19290
Title : NMR structure of human TDP-43 tandem RRM_s in complex with UG-rich RNA
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Deposited on : 2013-06-06

This is a Full wwPDB NMR Structure Validation Report for a publicly released PDB entry.

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

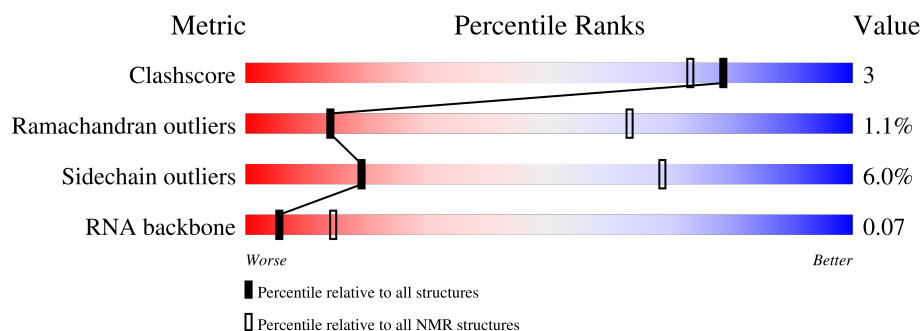
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 92%.

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
RNA backbone	8273	777

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	174	
2	B	12	

2 Ensemble composition and analysis

This entry contains 20 models. Model 4 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative.

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:101-A:138, A:145-A:261 (155)	0.44	4

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

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

The models can be grouped into 4 clusters and 7 single-model clusters were found.

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

3 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 3143 atoms, of which 1485 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called TAR DNA-BINDING PROTEIN 43.

Mol	Chain	Residues	Atoms						Trace
1	A	174	Total	C	H	N	O	S	0
			2774	885	1373	241	265	10	

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	96	GLY	-	expression tag	UNP Q13148
A	97	SER	-	expression tag	UNP Q13148
A	98	HIS	-	expression tag	UNP Q13148
A	99	MET	-	expression tag	UNP Q13148
A	100	ALA	-	expression tag	UNP Q13148
A	101	SER	-	expression tag	UNP Q13148

- Molecule 2 is a RNA chain called 5'-R(*GP*UP*GP*UP*GP*AP*AP*UP*GP*AP*AP*U P)-3'.

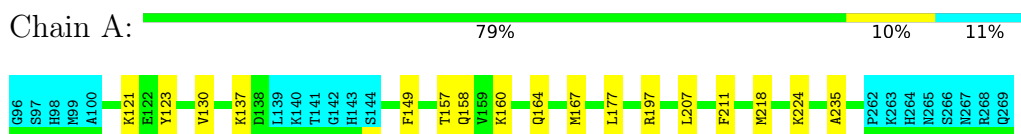
Mol	Chain	Residues	Atoms						Trace
2	B	12	Total	C	H	N	O	P	0
			369	116	112	48	82	11	

4 Residue-property plots

4.1 Average score per residue in the NMR ensemble

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

- Molecule 1: TAR DNA-BINDING PROTEIN 43



- Molecule 2: 5'-R(*GP*UP*GP*UP*GP*AP*AP*UP*GP*AP*AP*UP)-3'

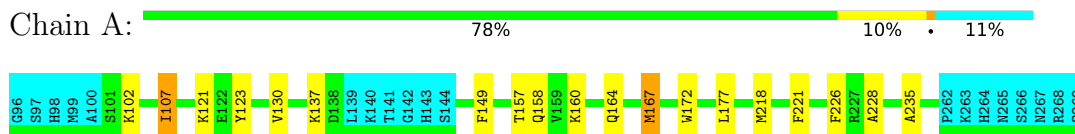


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

- Molecule 1: TAR DNA-BINDING PROTEIN 43

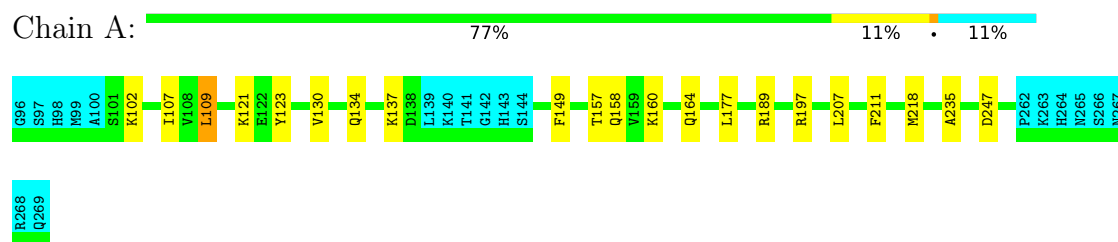


- Molecule 2: 5'-R(*GP*UP*GP*UP*GP*AP*AP*UP*GP*AP*AP*UP)-3'

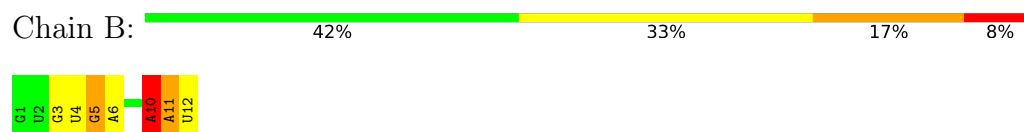


4.2.2 Score per residue for model 2

- Molecule 1: TAR DNA-BINDING PROTEIN 43

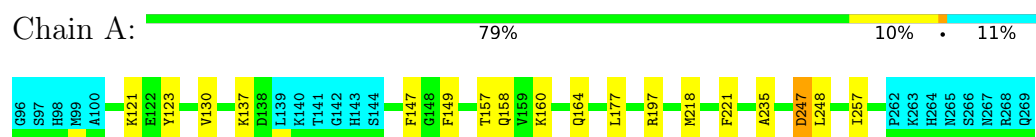


- Molecule 2: 5'-R(*GP*UP*GP*UP*GP*AP*AP*UP*GP*AP*AP*UP)-3'



4.2.3 Score per residue for model 3

- Molecule 1: TAR DNA-BINDING PROTEIN 43

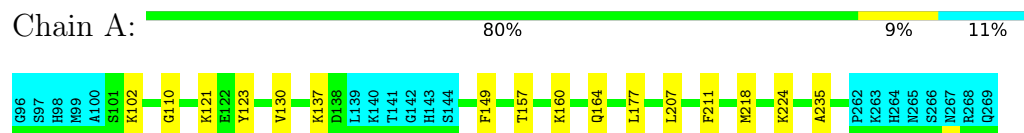


- Molecule 2: 5'-R(*GP*UP*GP*UP*GP*AP*AP*UP*GP*AP*AP*UP)-3'



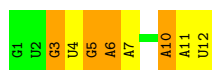
4.2.4 Score per residue for model 4 (medoid)

- Molecule 1: TAR DNA-BINDING PROTEIN 43



- Molecule 2: 5'-R(*GP*UP*GP*UP*GP*AP*AP*UP*GP*AP*AP*UP)-3'





4.2.5 Score per residue for model 5

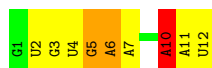
- Molecule 1: TAR DNA-BINDING PROTEIN 43

Chain A: 78% 10% 11%



- Molecule 2: 5'-R(*GP*UP*GP*UP*GP*AP*AP*UP*GP*AP*AP*UP)-3'

Chain B: 25% 50% 17% 8%



4.2.6 Score per residue for model 6

- Molecule 1: TAR DNA-BINDING PROTEIN 43

Chain A: 77% 11% 11%



- Molecule 2: 5'-R(*GP*UP*GP*UP*GP*AP*AP*UP*GP*AP*AP*UP)-3'

Chain B: 25% 50% 17% 8%



4.2.7 Score per residue for model 7

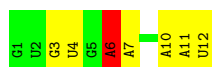
- Molecule 1: TAR DNA-BINDING PROTEIN 43

Chain A: 81% 8% 11%



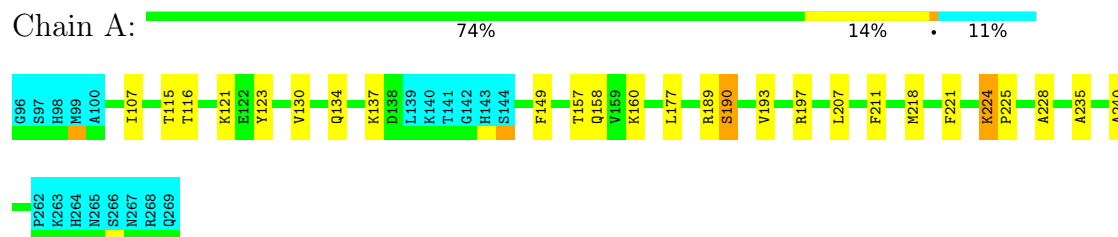
- Molecule 2: 5'-R(*GP*UP*GP*UP*GP*AP*AP*UP*GP*AP*AP*UP)-3'

Chain B: 42% 50% 8%



4.2.8 Score per residue for model 8

- Molecule 1: TAR DNA-BINDING PROTEIN 43

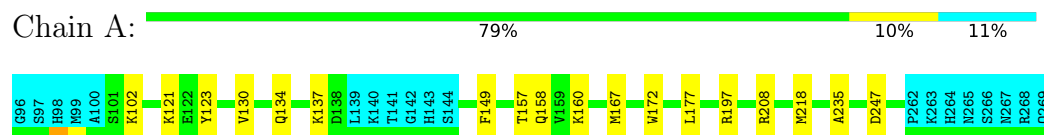


- Molecule 2: 5'-R(*GP*UP*GP*UP*GP*AP*AP*UP*GP*AP*AP*UP)-3'



4.2.9 Score per residue for model 9

- Molecule 1: TAR DNA-BINDING PROTEIN 43

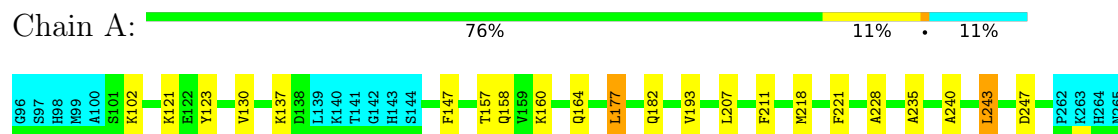


- Molecule 2: 5'-R(*GP*UP*GP*UP*GP*AP*AP*UP*GP*AP*AP*UP)-3'



4.2.10 Score per residue for model 10

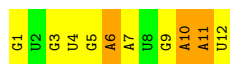
- Molecule 1: TAR DNA-BINDING PROTEIN 43





- Molecule 2: 5'-R(*GP*UP*GP*UP*GP*AP*AP*UP*GP*AP*AP*UP)-3'

Chain B: 17% 58% 25%



4.2.11 Score per residue for model 11

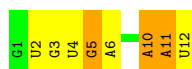
- Molecule 1: TAR DNA-BINDING PROTEIN 43

Chain A: 78% 11% 11%



- Molecule 2: 5'-R(*GP*UP*GP*UP*GP*AP*AP*UP*GP*AP*AP*UP)-3'

Chain B: 33% 42% 25%



4.2.12 Score per residue for model 12

- Molecule 1: TAR DNA-BINDING PROTEIN 43

Chain A: 77% 10% 11%



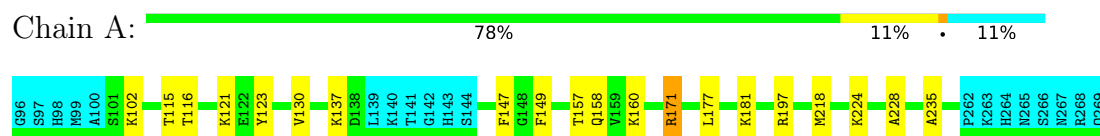
- Molecule 2: 5'-R(*GP*UP*GP*UP*GP*AP*AP*UP*GP*AP*AP*UP)-3'

Chain B: 17% 75% 8%



4.2.13 Score per residue for model 13

- Molecule 1: TAR DNA-BINDING PROTEIN 43

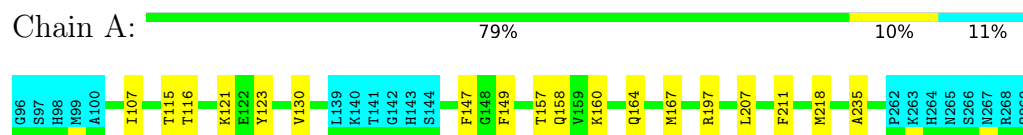


- Molecule 2: 5'-R(*GP*UP*GP*UP*GP*AP*AP*UP*GP*AP*AP*UP)-3'



4.2.14 Score per residue for model 14

- Molecule 1: TAR DNA-BINDING PROTEIN 43

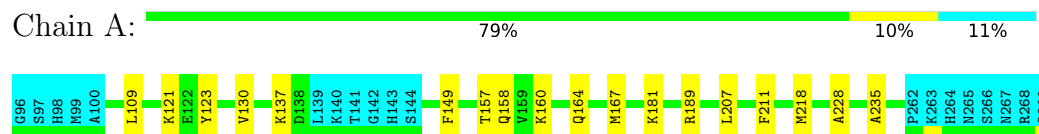


- Molecule 2: 5'-R(*GP*UP*GP*UP*GP*AP*AP*UP*GP*AP*AP*UP)-3'

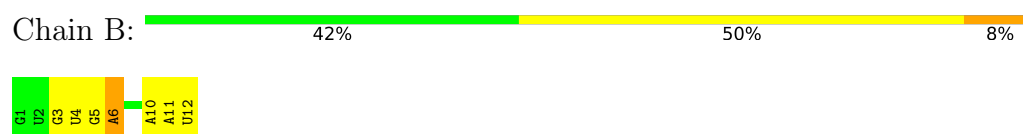


4.2.15 Score per residue for model 15

- Molecule 1: TAR DNA-BINDING PROTEIN 43

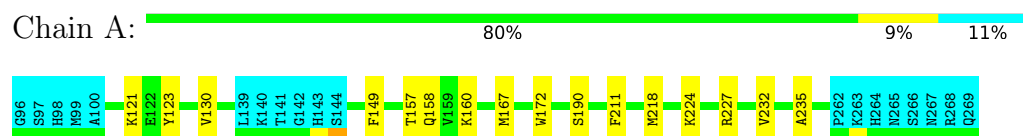


- Molecule 2: 5'-R(*GP*UP*GP*UP*GP*AP*AP*UP*GP*AP*AP*UP)-3'

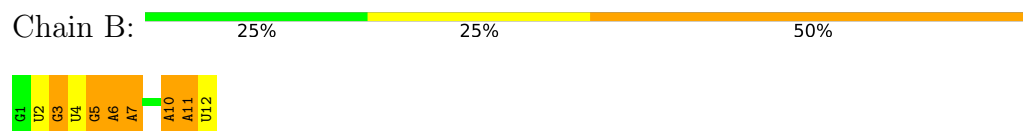


4.2.16 Score per residue for model 16

- Molecule 1: TAR DNA-BINDING PROTEIN 43

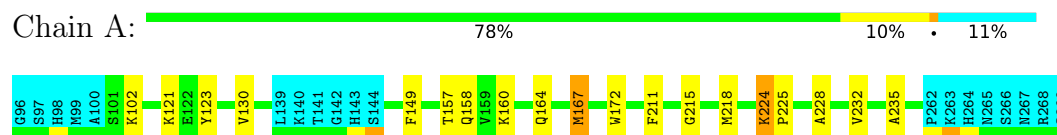


- Molecule 2: 5'-R(*GP*UP*GP*UP*GP*AP*AP*UP*GP*AP*AP*UP)-3'



4.2.17 Score per residue for model 17

- Molecule 1: TAR DNA-BINDING PROTEIN 43

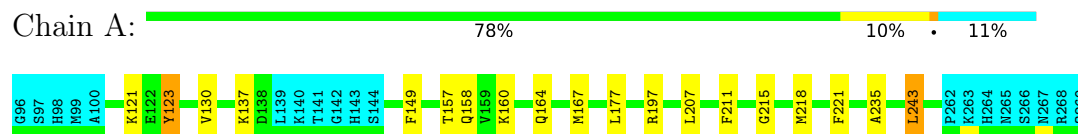


- Molecule 2: 5'-R(*GP*UP*GP*UP*GP*AP*AP*UP*GP*AP*AP*UP)-3'

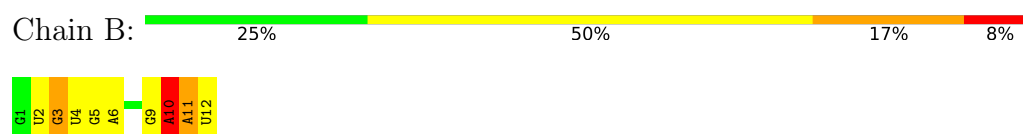


4.2.18 Score per residue for model 18

- Molecule 1: TAR DNA-BINDING PROTEIN 43

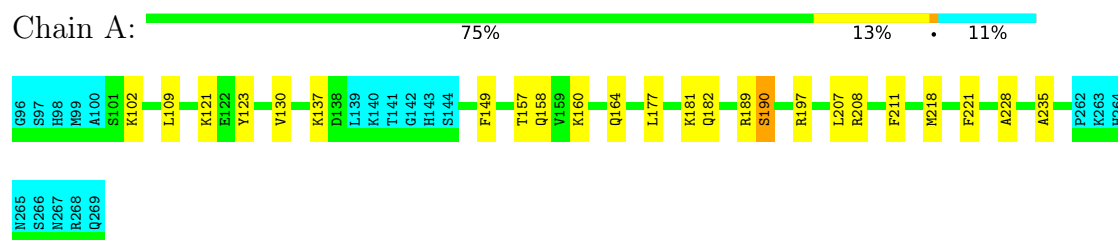


- Molecule 2: 5'-R(*GP*UP*GP*UP*GP*AP*AP*UP*GP*AP*AP*UP)-3'

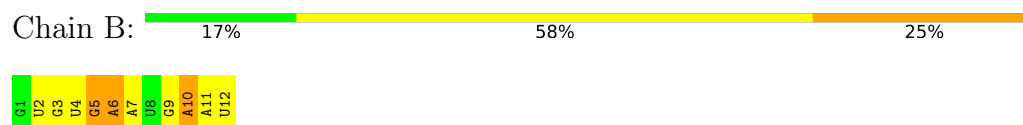


4.2.19 Score per residue for model 19

- Molecule 1: TAR DNA-BINDING PROTEIN 43

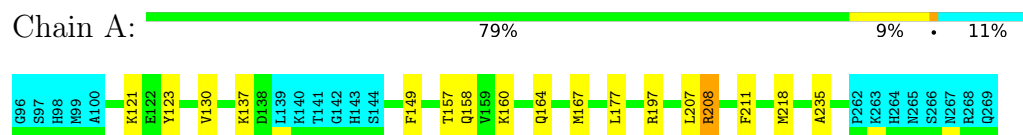


- Molecule 2: 5'-R(*GP*UP*GP*UP*GP*AP*AP*UP*GP*AP*AP*UP)-3'



4.2.20 Score per residue for model 20

- Molecule 1: TAR DNA-BINDING PROTEIN 43



- Molecule 2: 5'-R(*GP*UP*GP*UP*GP*AP*AP*UP*GP*AP*AP*UP)-3'



5 Refinement protocol and experimental data overview

The models were refined using the following method: *SIMULATED ANNEALING COMBINED WITH MOLECULAR DYNAMICS IN TORSION ANGLE SPACE*.

Of the 50 calculated structures, 20 were deposited, based on the following criterion: *LOWEST ENERGY AND RESTRAINT VIOLATION*.

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

Software name	Classification	Version
Amber	refinement	
CYANA	structure solution	

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

Chemical shift file(s)	working_cs.cif
Number of chemical shift lists	2
Total number of shifts	2382
Number of shifts mapped to atoms	2375
Number of unparsed shifts	0
Number of shifts with mapping errors	7
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	92%

6 Model quality

6.1 Standard geometry

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	0.49±0.00	0±0/1283 (0.0± 0.0%)	0.93±0.01	0±0/1728 (0.0± 0.0%)
2	B	0.73±0.01	0±0/288 (0.0± 0.0%)	1.14±0.04	1±1/448 (0.3± 0.2%)
All	All	0.54	0/31420 (0.0%)	0.98	24/43520 (0.1%)

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
2	B	0.0±0.0	0.2±0.4
All	All	0	5

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
2	B	10	A	C5'-C4'-C3'	-6.05	106.93	116.00	2	5
2	B	5	G	C3'-C2'-C1'	-5.63	95.87	101.50	1	4
2	B	10	A	O4'-C4'-C3'	5.52	109.52	104.00	18	2
2	B	3	G	C1'-O4'-C4'	-5.36	104.34	109.70	3	5
2	B	5	G	C5'-C4'-C3'	-5.23	108.16	116.00	4	2
2	B	5	G	C1'-O4'-C4'	-5.16	104.75	109.90	17	4
2	B	6	A	O4'-C4'-C3'	5.08	109.08	104.00	14	1
2	B	9	G	C5'-C4'-C3'	-5.07	108.40	116.00	13	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)
2	B	6	A	Sidechain	3
2	B	9	G	Sidechain	2

6.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	1256	1232	1231	7±2
2	B	257	112	130	3±1
All	All	30260	26880	27220	160

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 3.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:228:ALA:HB2	2:B:6:A:C4	0.64	2.27	12	2
1:A:247:ASP:C	1:A:248:LEU:HD12	0.62	2.19	3	1
1:A:218:MET:HE3	1:A:235:ALA:HB2	0.56	1.78	13	20
2:B:6:A:H1'	2:B:7:A:C8	0.56	2.36	12	5
1:A:149:PHE:CZ	2:B:5:G:C4	0.53	2.97	20	15
1:A:243:LEU:HD12	1:A:243:LEU:C	0.51	2.31	5	5
1:A:207:LEU:HD22	1:A:211:PHE:CE1	0.48	2.42	19	6
2:B:10:A:C8	2:B:10:A:H5''	0.48	2.42	1	6
1:A:171:ARG:HD3	1:A:171:ARG:C	0.48	2.34	5	2
1:A:224:LYS:HA	1:A:225:PRO:C	0.48	2.34	8	4
1:A:221:PHE:CE2	2:B:9:G:H1'	0.47	2.43	8	4
1:A:207:LEU:HD22	1:A:211:PHE:CE2	0.46	2.44	14	7
2:B:6:A:H2'	2:B:7:A:C8	0.46	2.46	10	1
1:A:181:LYS:HE3	2:B:5:G:C5	0.45	2.45	6	1
2:B:10:A:C2	2:B:11:A:C4	0.45	3.04	6	2
1:A:221:PHE:CE1	2:B:9:G:H1'	0.45	2.46	19	2
1:A:157:THR:HA	1:A:160:LYS:HE2	0.45	1.89	15	19
1:A:218:MET:HE2	1:A:218:MET:HA	0.44	1.89	1	9
2:B:10:A:N3	2:B:11:A:C8	0.44	2.86	2	2
2:B:9:G:C5'	2:B:9:G:N3	0.44	2.81	18	2
1:A:115:THR:HG22	1:A:116:THR:N	0.44	2.28	11	6

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:123:TYR:CD2	1:A:123:TYR:C	0.43	2.96	18	1
1:A:109:LEU:H	1:A:109:LEU:HD22	0.43	1.72	2	1
1:A:228:ALA:HB2	2:B:6:A:C6	0.43	2.49	8	2
1:A:189:ARG:O	1:A:190:SER:CB	0.43	2.67	8	2
1:A:197:ARG:HD2	2:B:5:G:H1'	0.43	1.91	11	1
1:A:227:ARG:HG2	2:B:7:A:C2	0.42	2.50	16	1
1:A:107:ILE:HG22	1:A:149:PHE:CE2	0.42	2.50	1	1
1:A:147:PHE:CZ	2:B:5:G:C5'	0.42	3.02	3	1
1:A:229:PHE:CE2	2:B:8:U:H4'	0.42	2.50	6	1
1:A:211:PHE:CE1	1:A:232:VAL:HG21	0.41	2.50	7	3
1:A:193:VAL:CG1	1:A:240:ALA:HB1	0.41	2.44	8	2
2:B:10:A:C2	2:B:11:A:C8	0.41	3.08	11	2
1:A:107:ILE:CG2	1:A:149:PHE:CE2	0.41	3.04	2	1
1:A:177:LEU:CD2	1:A:182:GLN:NE2	0.41	2.84	10	1
1:A:181:LYS:HE2	1:A:181:LYS:HA	0.41	1.92	13	1
1:A:167:MET:HE3	1:A:172:TRP:CD2	0.41	2.50	1	5
1:A:149:PHE:CE2	2:B:5:G:C5	0.41	3.09	1	2
1:A:248:LEU:HD13	1:A:257:ILE:HG12	0.41	1.93	3	1
1:A:107:ILE:HG22	1:A:149:PHE:CZ	0.41	2.50	8	1
1:A:193:VAL:HG13	1:A:240:ALA:HB1	0.41	1.92	12	1
1:A:194:PHE:CE2	2:B:8:U:C6	0.41	3.09	12	1
2:B:6:A:H2'	2:B:7:A:N7	0.41	2.30	7	1
1:A:110:GLY:HA2	2:B:3:G:C5	0.40	2.51	4	1
2:B:9:G:N3	2:B:9:G:H5''	0.40	2.32	18	1
1:A:208:ARG:HD3	1:A:208:ARG:C	0.40	2.41	19	2
2:B:10:A:N3	2:B:10:A:H2'	0.40	2.32	2	1
1:A:149:PHE:CZ	2:B:5:G:C5	0.40	3.09	8	1

6.3 Torsion angles ⓘ

6.3.1 Protein backbone ⓘ

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	155/174 (89%)	138±1 (89±1%)	15±2 (10±1%)	2±1 (1±0%)	14	63
All	All	3100/3480 (89%)	2761 (89%)	304 (10%)	35 (1%)	14	63

All 5 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	130	VAL	20
1	A	228	ALA	5
1	A	247	ASP	5
1	A	190	SER	3
1	A	215	GLY	2

6.3.2 Protein sidechains ⓘ

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	141/157 (90%)	133±2 (94±1%)	8±2 (6±1%)	19	68
All	All	2820/3140 (90%)	2651 (94%)	169 (6%)	19	68

All 22 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	121	LYS	20
1	A	123	TYR	20
1	A	158	GLN	19
1	A	137	LYS	16
1	A	164	GLN	14
1	A	177	LEU	14
1	A	197	ARG	13
1	A	102	LYS	10
1	A	167	MET	8
1	A	224	LYS	7
1	A	109	LEU	4
1	A	134	GLN	4
1	A	107	ILE	3
1	A	147	PHE	3
1	A	243	LEU	3
1	A	189	ARG	2
1	A	171	ARG	2
1	A	208	ARG	2
1	A	181	LYS	2

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Mol	Chain	Res	Type	Models (Total)
1	A	226	PHE	1
1	A	236	ASP	1
1	A	182	GLN	1

6.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers	Suiteness
2	B	11/12 (92%)	6±0 (55±0%)	3±1 (27±11%)	0.08±0.00
All	All	221/240 (92%)	120 (54%)	60 (27%)	0.08

The overall RNA backbone suiteness is 0.07.

All unique RNA backbone outliers are listed below:

Mol	Chain	Res	Type	Models (Total)
2	B	3	G	20
2	B	4	U	20
2	B	6	A	20
2	B	10	A	20
2	B	11	A	20
2	B	12	U	20

All unique RNA pucker outliers are listed below:

Mol	Chain	Res	Type	Models (Total)
2	B	10	A	19
2	B	3	G	14
2	B	2	U	13
2	B	6	A	5
2	B	4	U	4
2	B	7	A	2
2	B	9	G	2
2	B	1	G	1

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

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

6.5 Carbohydrates [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 92% for the well-defined parts and 90% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *YP597CN-aug12.1_withRNA2_protein2.str.csh*

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	2197
Number of shifts mapped to atoms	2197
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	4

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction $\pm$ precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	172	0.06 ± 0.14	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	162	0.03 ± 0.10	None needed (< 0.5 ppm)
$^{13}\text{C}'$	158	0.25 ± 0.12	None needed (< 0.5 ppm)
^{15}N	159	0.24 ± 0.32	None needed (< 0.5 ppm)

7.1.3 Completeness of resonance assignments

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 85%, i.e. 2002 atoms were assigned a chemical shift out of a possible 2368. 0 out of 23 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	758/774 (98%)	311/314 (99%)	300/310 (97%)	147/150 (98%)
Sidechain	1058/1178 (90%)	716/759 (94%)	324/372 (87%)	18/47 (38%)

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	Total	¹H	¹³C	¹⁵N
Aromatic	186/196 (95%)	93/97 (96%)	91/94 (97%)	2/5 (40%)
Sugar	0/132 (0%)	0/72 (0%)	0/60 (0%)	0/0 (—%)
Base	0/88 (0%)	0/56 (0%)	0/20 (0%)	0/12 (0%)
Overall	2002/2368 (85%)	1120/1298 (86%)	715/856 (84%)	167/214 (78%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 84%, i.e. 2197 atoms were assigned a chemical shift out of a possible 2613. 0 out of 24 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹H	¹³C	¹⁵N
Backbone	831/869 (96%)	342/353 (97%)	330/348 (95%)	159/168 (95%)
Sidechain	1168/1306 (89%)	790/841 (94%)	357/410 (87%)	21/55 (38%)
Aromatic	198/218 (91%)	99/109 (91%)	97/100 (97%)	2/9 (22%)
Sugar	0/132 (0%)	0/72 (0%)	0/60 (0%)	0/0 (—%)
Base	0/88 (0%)	0/56 (0%)	0/20 (0%)	0/12 (0%)
Overall	2197/2613 (84%)	1231/1431 (86%)	784/938 (84%)	182/244 (75%)

7.1.4 Statistically unusual chemical shifts ⓘ

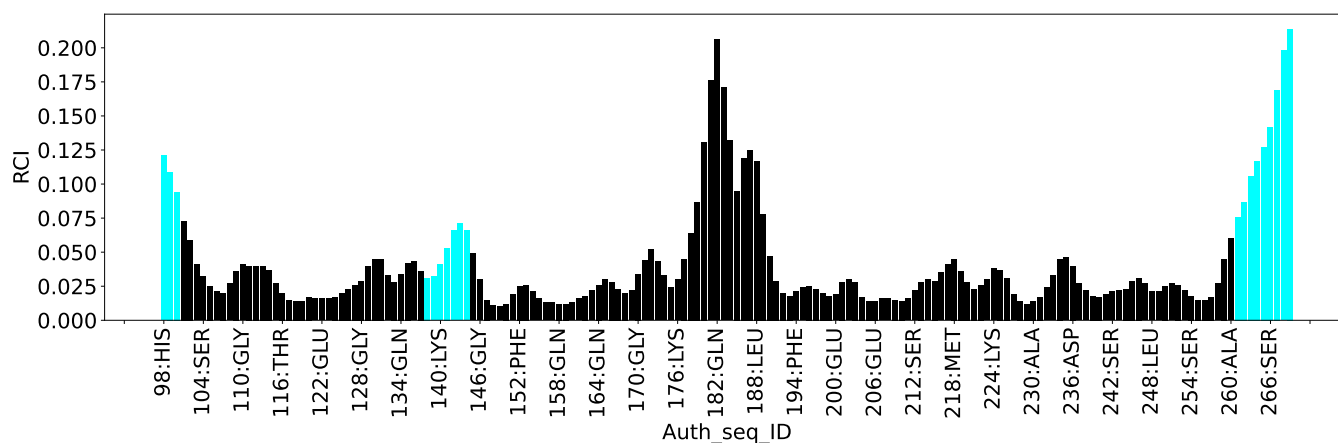
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	250	ILE	HG13	-1.28	-0.82 – 3.23	-6.1
1	A	167	MET	HB3	0.05	0.33 – 3.66	-5.8
1	A	168	ILE	HG13	-0.86	-0.82 – 3.23	-5.1
1	A	200	GLU	HB3	0.93	0.95 – 3.05	-5.1

7.1.5 Random Coil Index (RCI) plots ⓘ

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:



7.2 Chemical shift list 2

File name: working_cs.cif

Chemical shift list name: *YP597CN-aug12.1_withRNA2_RNA2.str.csh*

7.2.1 Bookkeeping [i](#)

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

Total number of shifts	185
Number of shifts mapped to atoms	178
Number of unparsed shifts	0
Number of shifts with mapping errors	7
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	3

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

- No matching atom found in the structure. All 7 occurrences are reported below.

List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
2	B	5	G	H1	12.173	0.020	1
2	B	5	G	H22	5.568	0.020	1
2	B	6	A	H2	7.805	0.020	1
2	B	7	A	H2	8.156	0.020	1
2	B	9	G	H1	10.046	0.020	1
2	B	10	A	H2	7.892	0.020	1
2	B	11	A	H2	8.104	0.020	1

7.2.2 Chemical shift referencing [i](#)

No chemical shift referencing corrections were calculated (not enough data).

7.2.3 Completeness of resonance assignments [i](#)

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 7%, i.e. 166 atoms were assigned a chemical shift out of a possible 2368. 0 out of 23 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	0/774 (0%)	0/314 (0%)	0/310 (0%)	0/150 (0%)
Sidechain	0/1178 (0%)	0/759 (0%)	0/372 (0%)	0/47 (0%)
Aromatic	0/196 (0%)	0/97 (0%)	0/94 (0%)	0/5 (0%)
Sugar	131/132 (99%)	71/72 (99%)	60/60 (100%)	0/0 (—%)
Base	35/88 (40%)	19/56 (34%)	16/20 (80%)	0/12 (0%)
Overall	166/2368 (7%)	90/1298 (7%)	76/856 (9%)	0/214 (0%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 6%, i.e. 166 atoms were assigned a chemical shift out of a possible 2613. 0 out of 24 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	0/869 (0%)	0/353 (0%)	0/348 (0%)	0/168 (0%)
Sidechain	0/1306 (0%)	0/841 (0%)	0/410 (0%)	0/55 (0%)
Aromatic	0/218 (0%)	0/109 (0%)	0/100 (0%)	0/9 (0%)
Sugar	131/132 (99%)	71/72 (99%)	60/60 (100%)	0/0 (—%)
Base	35/88 (40%)	19/56 (34%)	16/20 (80%)	0/12 (0%)
Overall	166/2613 (6%)	90/1431 (6%)	76/938 (8%)	0/244 (0%)

7.2.4 Statistically unusual chemical shifts [i](#)

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

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
2	B	4	U	H4'	3.09	3.44 – 5.28	-6.9
2	B	4	U	H5''	3.01	3.05 – 5.24	-5.2
2	B	9	G	H5'	5.42	3.12 – 5.42	5.0

7.2.5 Random Coil Index (RCI) plots

No *random coil index*(RCI) plot could be generated from the current chemical shift list. RCI is only applicable to proteins

8 NMR restraints analysis [i](#)

8.1 Conformationally restricting restraints [i](#)

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	5131
Intra-residue ($ i-j =0$)	1060
Sequential ($ i-j =1$)	1256
Medium range ($ i-j >1$ and $ i-j <5$)	791
Long range ($ i-j \geq 5$)	1698
Inter-chain	214
Hydrogen bond restraints	112
Disulfide bond restraints	0
Total dihedral-angle restraints	686
Number of unmapped restraints	0
Number of restraints per residue	31.3
Number of long range restraints per residue ¹	9.4

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

8.2 Residual restraint violations [i](#)

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 [i](#)

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)	25.4	0.2
0.2-0.5 (Medium)	4.2	0.31
>0.5 (Large)	1.0	1.67

8.2.2 Average number of dihedral-angle violations per model [i](#)

Dihedral-angle violations less than 1° are not included in the calculation.

Bins (°)	Average number of violations per model	Max (°)
1.0-10.0 (Small)	0.7	3.31
10.0-20.0 (Medium)	None	None
>20.0 (Large)	169.0	109.61

9 Distance violation analysis ⓘ

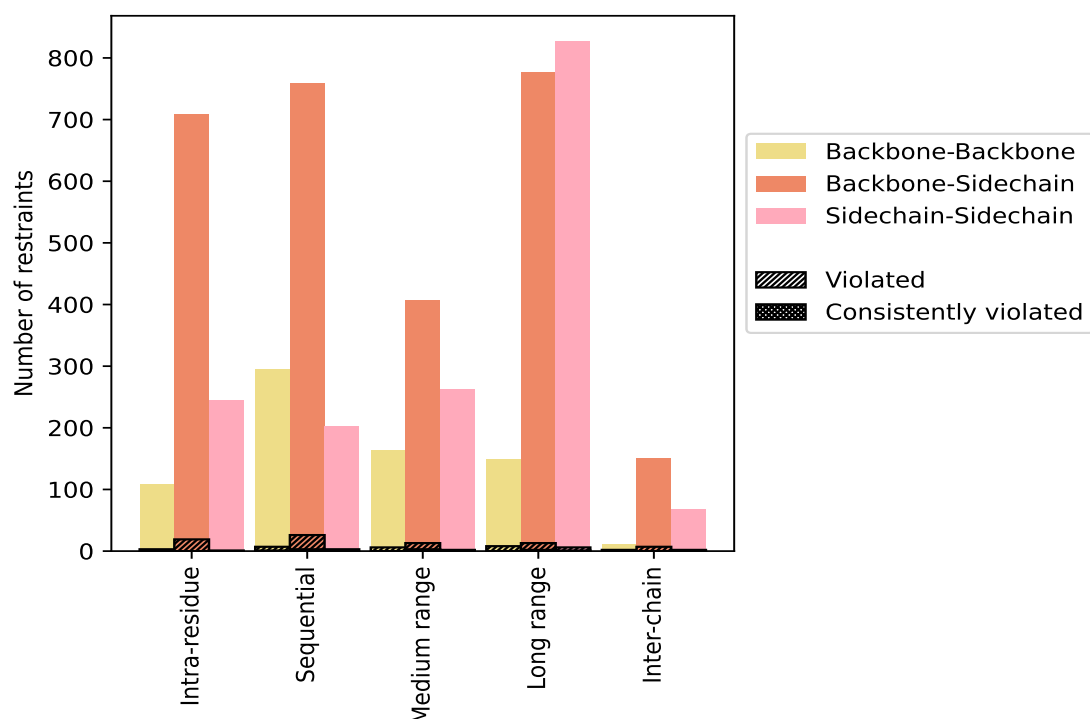
9.1 Summary of distance violations ⓘ

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

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue ($i-j =0$)	1060	20.7	23	2.2	0.4	0	0.0	0.0
Backbone-Backbone	108	2.1	3	2.8	0.1	0	0.0	0.0
Backbone-Sidechain	708	13.8	19	2.7	0.4	0	0.0	0.0
Sidechain-Sidechain	244	4.8	1	0.4	0.0	0	0.0	0.0
Sequential ($i-j =1$)	1256	24.5	36	2.9	0.7	4	0.3	0.1
Backbone-Backbone	295	5.7	7	2.4	0.1	1	0.3	0.0
Backbone-Sidechain	759	14.8	26	3.4	0.5	3	0.4	0.1
Sidechain-Sidechain	202	3.9	3	1.5	0.1	0	0.0	0.0
Medium range ($i-j >1$ & $i-j <5$)	791	15.4	19	2.4	0.4	1	0.1	0.0
Backbone-Backbone	163	3.2	6	3.7	0.1	0	0.0	0.0
Backbone-Sidechain	365	7.1	11	3.0	0.2	1	0.3	0.0
Sidechain-Sidechain	263	5.1	2	0.8	0.0	0	0.0	0.0
Long range ($i-j \geq 5$)	1698	33.1	21	1.2	0.4	3	0.2	0.1
Backbone-Backbone	148	2.9	8	5.4	0.2	0	0.0	0.0
Backbone-Sidechain	723	14.1	7	1.0	0.1	2	0.3	0.0
Sidechain-Sidechain	827	16.1	6	0.7	0.1	1	0.1	0.0
Inter-chain	214	4.2	9	4.2	0.2	0	0.0	0.0
Backbone-Backbone	11	0.2	2	18.2	0.0	0	0.0	0.0
Backbone-Sidechain	147	2.9	6	4.1	0.1	0	0.0	0.0
Sidechain-Sidechain	56	1.1	1	1.8	0.0	0	0.0	0.0
Hydrogen bond	112	2.2	10	8.9	0.2	3	2.7	0.1
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	5131	100.0	118	2.3	2.3	11	0.2	0.2
Backbone-Backbone	725	14.1	26	3.6	0.5	1	0.1	0.0
Backbone-Sidechain	2802	54.6	78	2.8	1.5	8	0.3	0.2
Sidechain-Sidechain	1604	31.3	14	0.9	0.3	2	0.1	0.0

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

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



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

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

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

Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
1	7	8	4	9	3	31	0.19	1.21	0.19	0.14
2	8	9	4	7	5	33	0.2	1.67	0.26	0.15
3	3	8	5	8	7	31	0.19	1.36	0.22	0.13
4	1	9	7	8	7	32	0.18	1.18	0.18	0.15
5	5	13	6	8	7	39	0.18	1.54	0.22	0.13
6	6	11	7	9	4	37	0.18	1.67	0.25	0.13
7	6	12	3	9	2	32	0.2	1.65	0.27	0.14
8	7	10	7	9	5	38	0.18	1.53	0.23	0.12
9	8	7	5	8	7	35	0.17	1.21	0.18	0.13
10	5	9	8	6	3	31	0.19	1.18	0.19	0.16

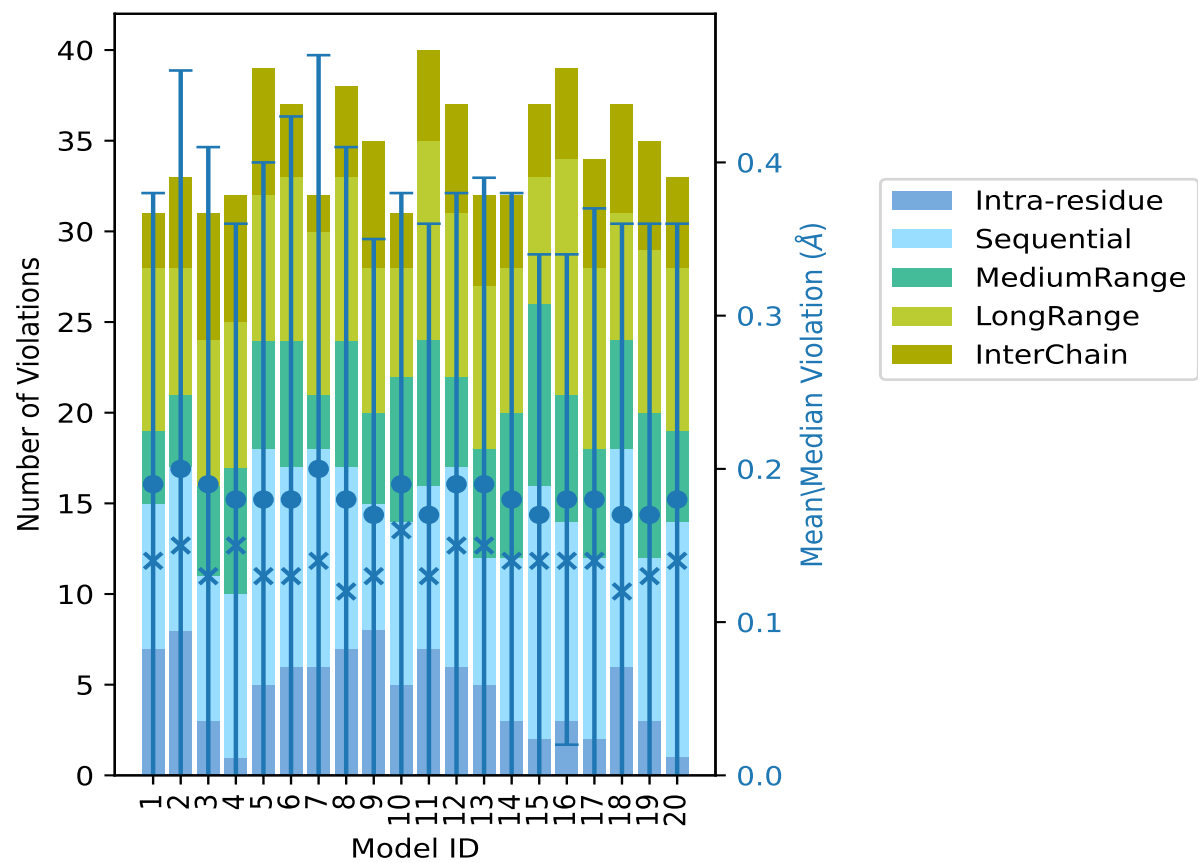
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Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
11	7	9	8	11	5	40	0.17	1.31	0.19	0.13
12	6	11	5	9	6	37	0.19	1.3	0.19	0.15
13	5	7	6	9	5	32	0.19	1.28	0.2	0.15
14	3	9	8	8	4	32	0.18	1.29	0.2	0.14
15	2	14	10	7	4	37	0.17	1.19	0.17	0.14
16	3	11	7	13	5	39	0.18	1.15	0.16	0.14
17	2	10	6	10	6	34	0.18	1.25	0.19	0.14
18	6	12	6	7	6	37	0.17	1.29	0.19	0.12
19	3	9	8	9	6	35	0.17	1.24	0.19	0.13
20	1	13	5	9	5	33	0.18	1.2	0.18	0.14

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

9.2.1 Bar graph : Distance Violation statistics for each model ⓘ



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

9.3 Distance violation statistics for the ensemble

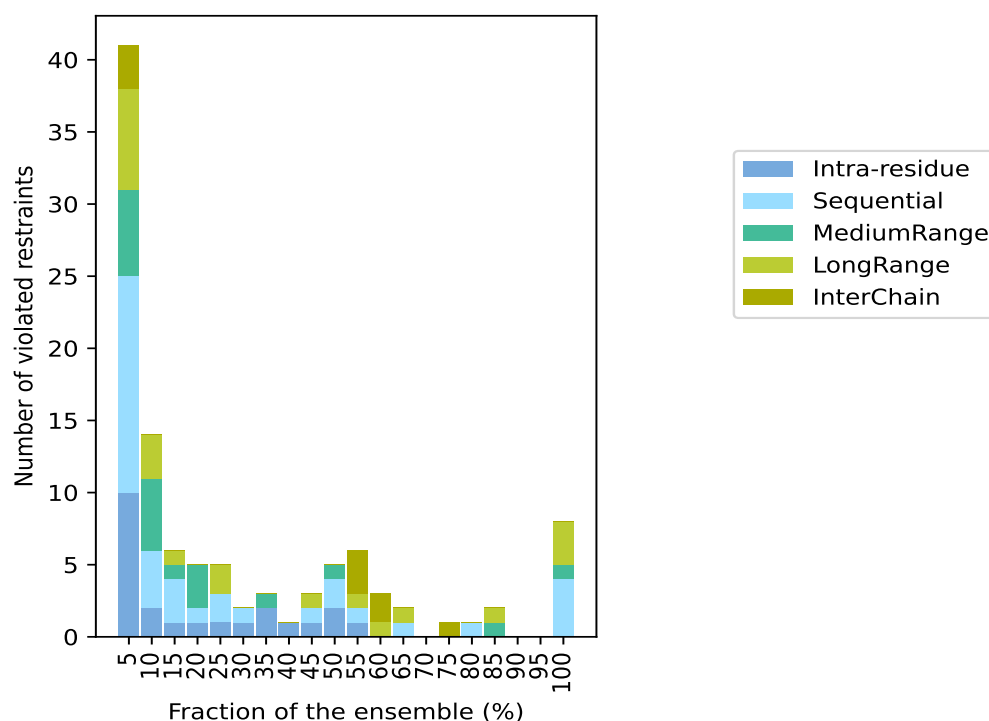
Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 4911(IR:1037, SQ:1220, MR:772, LR:1677, IC:205) restraints 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	%
10	15	6	7	3	41	1	5.0
2	4	5	3	0	14	2	10.0
1	3	1	1	0	6	3	15.0
1	1	3	0	0	5	4	20.0
1	2	0	2	0	5	5	25.0
1	1	0	0	0	2	6	30.0
2	0	1	0	0	3	7	35.0
1	0	0	0	0	1	8	40.0
1	1	0	1	0	3	9	45.0
2	2	1	0	0	5	10	50.0
1	1	0	1	3	6	11	55.0
0	0	0	1	2	3	12	60.0
0	1	0	1	0	2	13	65.0
0	0	0	0	0	0	14	70.0
0	0	0	0	1	1	15	75.0
0	1	0	0	0	1	16	80.0
0	0	1	1	0	2	17	85.0
0	0	0	0	0	0	18	90.0
0	0	0	0	0	0	19	95.0
0	4	1	3	0	8	20	100.0

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

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

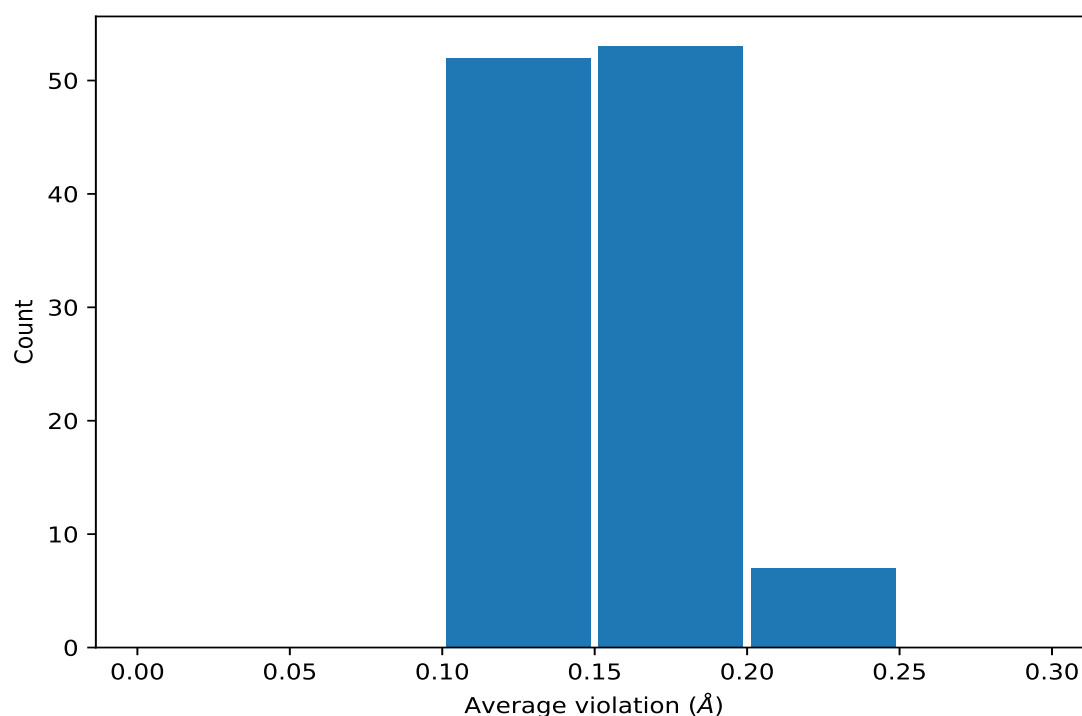
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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

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

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



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

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

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,2)	1:121:A:LYS:H	1:117:A:GLU:O	20	0.23	0.02	0.23
(1,1877)	1:119:A:ASP:H	1:122:A:GLU:HG2	20	0.21	0.01	0.21
(1,2077)	1:140:A:LYS:HB2	1:141:A:THR:H	20	0.2	0.02	0.19
(1,813)	1:153:A:THR:HB	1:154:A:GLU:H	20	0.17	0.01	0.17
(3,12)	1:121:A:LYS:N	1:117:A:GLU:O	20	0.17	0.02	0.17
(1,2041)	1:208:A:ARG:HD2	1:217:A:VAL:HB	20	0.17	0.02	0.17
(1,791)	1:202:A:MET:H	1:253:A:ILE:HG13	20	0.16	0.01	0.16
(1,222)	1:135:A:VAL:H	1:136:A:LYS:H	20	0.15	0.01	0.16
(1,2144)	1:154:A:GLU:HB2	1:155:A:TYR:HA	20	0.13	0.01	0.13
(1,4740)	1:166:A:HIS:HE1	1:161:A:VAL:H	20	0.12	0.02	0.12
(1,2362)	1:207:A:LEU:HG	1:211:A:PHE:HZ	17	0.18	0.01	0.17
(1,2161)	1:127:A:PHE:HZ	1:161:A:VAL:HB	17	0.17	0.06	0.21
(1,177)	1:260:A:ALA:H	1:261:A:GLU:H	16	0.2	0.01	0.2
(1,4521)	2:8:B:U:H5	1:259:A:ASN:H	15	0.13	0.02	0.13
(1,2240)	1:209:A:GLU:HB3	1:210:A:PHE:H	13	0.12	0.02	0.12
(1,506)	1:208:A:ARG:H	1:219:A:ASP:HA	13	0.11	0.01	0.11

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,33)	1:147:A:PHE:H	1:136:A:LYS:O	12	0.17	0.07	0.16
(1,4523)	2:8:B:U:H1'	1:263:A:LYS:H	12	0.15	0.03	0.14
(1,4520)	2:8:B:U:H4'	1:230:A:ALA:H	12	0.14	0.03	0.13
(1,218)	1:117:A:GLU:HG2	1:135:A:VAL:H	12	0.11	0.01	0.11
(1,4919)	2:8:B:U:H5	2:8:B:U:H3'	11	0.15	0.05	0.13
(1,4673)	2:9:B:G:H4'	1:231:A:PHE:HZ	11	0.14	0.02	0.14
(1,4567)	2:5:B:G:H5'	1:197:A:ARG:HD3	11	0.13	0.02	0.12
(1,4699)	2:4:B:U:H3	1:178:A:PRO:HA	11	0.12	0.01	0.11
(1,392)	1:221:A:PHE:H	1:233:A:THR:H	11	0.11	0.01	0.11
(1,4878)	2:5:B:G:H8	2:5:B:G:H4'	10	0.2	0.04	0.2
(1,749)	1:117:A:GLU:H	1:119:A:ASP:H	10	0.12	0.01	0.12
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG12	10	0.11	0.01	0.11
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG13	10	0.11	0.01	0.11
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG21	10	0.11	0.01	0.11
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG22	10	0.11	0.01	0.11
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG23	10	0.11	0.01	0.11
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG11	10	0.11	0.01	0.11
(1,1679)	1:206:A:GLU:HB3	1:207:A:LEU:HB3	10	0.11	0.01	0.11
(1,4990)	2:11:B:A:H3'	2:12:B:U:H6	9	0.12	0.01	0.12
(1,4738)	1:166:A:HIS:HD2	1:161:A:VAL:HB	9	0.12	0.01	0.12
(1,4785)	2:2:B:U:H4'	2:2:B:U:H3'	9	0.11	0.01	0.11
(1,496)	1:158:A:GLN:H	1:158:A:GLN:HG2	8	0.11	0.0	0.11
(1,4973)	2:11:B:A:H4'	2:11:B:A:H1'	7	0.13	0.03	0.12
(1,4826)	2:3:B:G:H8	2:3:B:G:H5''	7	0.11	0.01	0.11
(1,2461)	1:241:A:GLN:HA	1:244:A:CYS:HB3	7	0.11	0.01	0.1
(3,105)	2:5:B:G:O6	1:105:A:ASP:H	7	0.1	0.0	0.1
(1,357)	1:102:A:LYS:H	1:102:A:LYS:HD3	6	0.18	0.03	0.18
(1,357)	1:102:A:LYS:H	1:102:A:LYS:HD2	6	0.18	0.03	0.18
(3,78)	1:147:A:PHE:N	1:136:A:LYS:O	6	0.16	0.01	0.16
(1,1994)	1:208:A:ARG:H	1:232:A:VAL:HB	5	0.21	0.01	0.22
(1,4327)	1:220:A:VAL:HG11	1:232:A:VAL:HG11	5	0.19	0.01	0.19
(1,4327)	1:220:A:VAL:HG11	1:232:A:VAL:HG12	5	0.19	0.01	0.19
(1,4327)	1:220:A:VAL:HG11	1:232:A:VAL:HG13	5	0.19	0.01	0.19
(1,4327)	1:220:A:VAL:HG11	1:232:A:VAL:HG21	5	0.19	0.01	0.19
(1,4327)	1:220:A:VAL:HG11	1:232:A:VAL:HG22	5	0.19	0.01	0.19
(1,4327)	1:220:A:VAL:HG11	1:232:A:VAL:HG23	5	0.19	0.01	0.19
(1,4327)	1:220:A:VAL:HG12	1:232:A:VAL:HG11	5	0.19	0.01	0.19
(1,4327)	1:220:A:VAL:HG12	1:232:A:VAL:HG12	5	0.19	0.01	0.19
(1,4327)	1:220:A:VAL:HG12	1:232:A:VAL:HG13	5	0.19	0.01	0.19
(1,4327)	1:220:A:VAL:HG12	1:232:A:VAL:HG21	5	0.19	0.01	0.19
(1,4327)	1:220:A:VAL:HG12	1:232:A:VAL:HG22	5	0.19	0.01	0.19
(1,4327)	1:220:A:VAL:HG12	1:232:A:VAL:HG23	5	0.19	0.01	0.19

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,4327)	1:220:A:VAL:HG13	1:232:A:VAL:HG11	5	0.19	0.01	0.19
(1,4327)	1:220:A:VAL:HG13	1:232:A:VAL:HG12	5	0.19	0.01	0.19
(1,4327)	1:220:A:VAL:HG13	1:232:A:VAL:HG13	5	0.19	0.01	0.19
(1,4327)	1:220:A:VAL:HG13	1:232:A:VAL:HG21	5	0.19	0.01	0.19
(1,4327)	1:220:A:VAL:HG13	1:232:A:VAL:HG22	5	0.19	0.01	0.19
(1,4327)	1:220:A:VAL:HG13	1:232:A:VAL:HG23	5	0.19	0.01	0.19
(1,4327)	1:220:A:VAL:HG21	1:232:A:VAL:HG11	5	0.19	0.01	0.19
(1,4327)	1:220:A:VAL:HG21	1:232:A:VAL:HG12	5	0.19	0.01	0.19
(1,4327)	1:220:A:VAL:HG21	1:232:A:VAL:HG13	5	0.19	0.01	0.19
(1,4327)	1:220:A:VAL:HG21	1:232:A:VAL:HG21	5	0.19	0.01	0.19
(1,4327)	1:220:A:VAL:HG21	1:232:A:VAL:HG22	5	0.19	0.01	0.19
(1,4327)	1:220:A:VAL:HG21	1:232:A:VAL:HG23	5	0.19	0.01	0.19
(1,4327)	1:220:A:VAL:HG22	1:232:A:VAL:HG11	5	0.19	0.01	0.19
(1,4327)	1:220:A:VAL:HG22	1:232:A:VAL:HG12	5	0.19	0.01	0.19
(1,4327)	1:220:A:VAL:HG22	1:232:A:VAL:HG13	5	0.19	0.01	0.19
(1,4327)	1:220:A:VAL:HG22	1:232:A:VAL:HG21	5	0.19	0.01	0.19
(1,4327)	1:220:A:VAL:HG22	1:232:A:VAL:HG22	5	0.19	0.01	0.19
(1,4327)	1:220:A:VAL:HG22	1:232:A:VAL:HG23	5	0.19	0.01	0.19
(1,4327)	1:220:A:VAL:HG23	1:232:A:VAL:HG11	5	0.19	0.01	0.19
(1,4327)	1:220:A:VAL:HG23	1:232:A:VAL:HG12	5	0.19	0.01	0.19
(1,4327)	1:220:A:VAL:HG23	1:232:A:VAL:HG13	5	0.19	0.01	0.19
(1,4327)	1:220:A:VAL:HG23	1:232:A:VAL:HG21	5	0.19	0.01	0.19
(1,4327)	1:220:A:VAL:HG23	1:232:A:VAL:HG22	5	0.19	0.01	0.19
(1,4327)	1:220:A:VAL:HG23	1:232:A:VAL:HG23	5	0.19	0.01	0.19
(1,4952)	2:10:B:A:H5'	2:10:B:A:H4'	5	0.13	0.03	0.12
(1,4827)	2:3:B:G:H1'	2:4:B:U:H5	5	0.13	0.02	0.14
(1,1383)	1:164:A:GLN:HE22	1:165:A:ARG:H	5	0.11	0.01	0.11
(1,2636)	1:224:A:LYS:HG3	1:225:A:PRO:HA	4	0.16	0.03	0.16
(1,3501)	1:107:A:ILE:H	1:107:A:ILE:HG12	4	0.12	0.01	0.12
(1,3501)	1:107:A:ILE:H	1:107:A:ILE:HG13	4	0.12	0.01	0.12
(1,725)	1:207:A:LEU:HB2	1:209:A:GLU:H	4	0.11	0.01	0.11
(1,1652)	1:157:A:THR:HA	1:160:A:LYS:HE2	4	0.11	0.01	0.11
(1,1652)	1:157:A:THR:HA	1:160:A:LYS:HE3	4	0.11	0.01	0.11
(1,2641)	1:174:A:ASP:HB2	1:176:A:LYS:HG3	4	0.11	0.01	0.1
(1,674)	1:207:A:LEU:H	1:207:A:LEU:HG	3	0.24	0.02	0.24
(1,649)	1:239:A:ILE:HA	1:243:A:LEU:H	3	0.12	0.01	0.12
(1,1734)	1:168:A:ILE:HA	1:169:A:ASP:HB2	3	0.12	0.02	0.11
(1,4899)	2:6:B:A:H8	2:7:B:A:H8	3	0.11	0.0	0.11
(3,44)	1:197:A:ARG:H	1:228:A:ALA:O	3	0.11	0.0	0.11
(1,48)	1:193:A:VAL:H	1:234:A:PHE:H	3	0.11	0.0	0.11
(1,1073)	1:243:A:LEU:HB3	1:244:A:CYS:H	3	0.11	0.0	0.11
(1,4880)	2:5:B:G:H1'	2:6:B:A:H8	2	0.16	0.04	0.16

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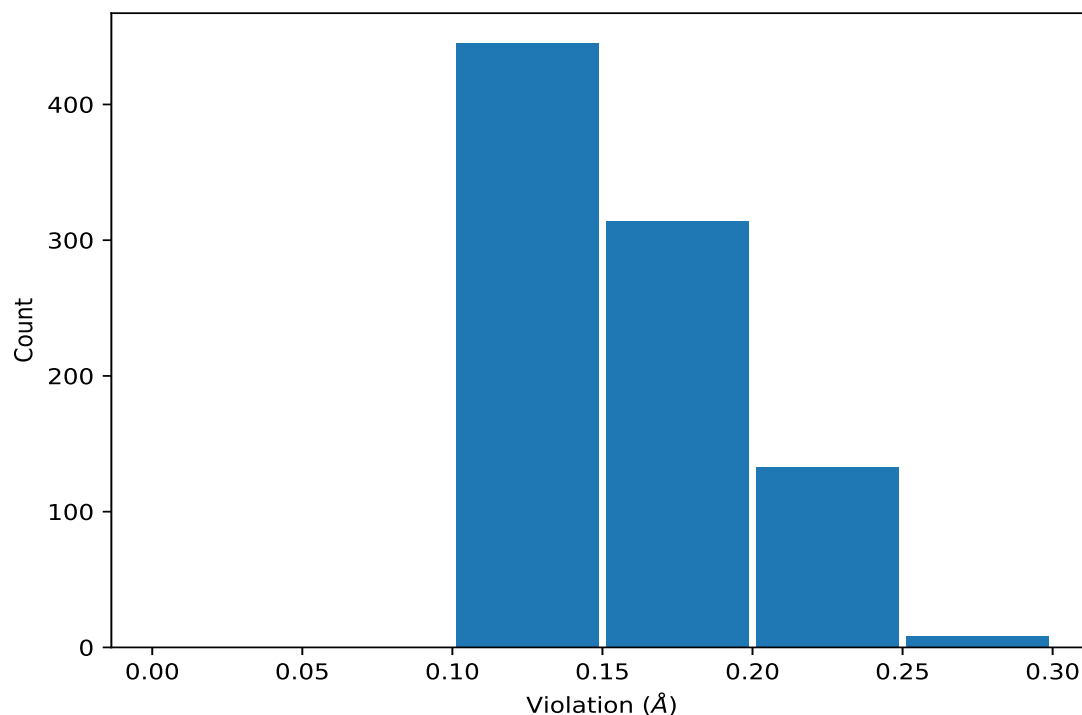
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,4967)	2:10:B:A:H5'	2:11:B:A:H8	2	0.16	0.02	0.16
(1,2582)	1:111:A:LEU:HA	1:111:A:LEU:HG	2	0.15	0.0	0.15
(1,280)	1:137:A:LYS:HA	1:145:A:LYS:H	2	0.14	0.01	0.14
(1,2111)	1:262:A:PRO:HB2	1:263:A:LYS:HA	2	0.13	0.01	0.13
(1,989)	1:205:A:ASP:H	1:208:A:ARG:HD2	2	0.12	0.01	0.12
(1,4941)	2:9:B:G:H1'	2:10:B:A:H1'	2	0.12	0.02	0.12
(3,22)	1:176:A:LYS:H	1:107:A:ILE:O	2	0.12	0.0	0.12
(1,1240)	1:104:A:SER:H	1:155:A:TYR:HA	2	0.11	0.01	0.11
(1,4877)	2:5:B:G:H8	2:5:B:G:H3'	2	0.11	0.01	0.11
(1,54)	1:168:A:ILE:H	1:172:A:TRP:HE3	2	0.11	0.0	0.11
(1,1314)	1:103:A:THR:H	1:182:A:GLN:H	2	0.11	0.0	0.11
(1,1113)	1:162:A:MET:H	1:164:A:GLN: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)
(3,33)	1:147:A:PHE:H	1:136:A:LYS:O	6	0.27
(3,33)	1:147:A:PHE:H	1:136:A:LYS:O	12	0.26
(1,674)	1:207:A:LEU:H	1:207:A:LEU:HG	7	0.26
(3,2)	1:121:A:LYS:H	1:117:A:GLU:O	1	0.25
(3,2)	1:121:A:LYS:H	1:117:A:GLU:O	2	0.25
(3,2)	1:121:A:LYS:H	1:117:A:GLU:O	7	0.25
(3,2)	1:121:A:LYS:H	1:117:A:GLU:O	18	0.25
(1,4878)	2:5:B:G:H8	2:5:B:G:H4'	13	0.25
(3,33)	1:147:A:PHE:H	1:136:A:LYS:O	8	0.24
(3,2)	1:121:A:LYS:H	1:117:A:GLU:O	9	0.24
(3,2)	1:121:A:LYS:H	1:117:A:GLU:O	10	0.24
(3,2)	1:121:A:LYS:H	1:117:A:GLU:O	17	0.24
(1,4878)	2:5:B:G:H8	2:5:B:G:H4'	11	0.24
(1,2161)	1:127:A:PHE:HZ	1:161:A:VAL:HB	3	0.24
(1,2161)	1:127:A:PHE:HZ	1:161:A:VAL:HB	12	0.24
(1,2161)	1:127:A:PHE:HZ	1:161:A:VAL:HB	14	0.24
(1,674)	1:207:A:LEU:H	1:207:A:LEU:HG	9	0.24
(3,33)	1:147:A:PHE:H	1:136:A:LYS:O	16	0.23
(3,2)	1:121:A:LYS:H	1:117:A:GLU:O	4	0.23
(3,2)	1:121:A:LYS:H	1:117:A:GLU:O	13	0.23
(3,2)	1:121:A:LYS:H	1:117:A:GLU:O	15	0.23
(3,2)	1:121:A:LYS:H	1:117:A:GLU:O	20	0.23
(1,4919)	2:8:B:U:H5	2:8:B:U:H3'	5	0.23
(1,2161)	1:127:A:PHE:HZ	1:161:A:VAL:HB	1	0.23
(1,2161)	1:127:A:PHE:HZ	1:161:A:VAL:HB	4	0.23
(1,2161)	1:127:A:PHE:HZ	1:161:A:VAL:HB	20	0.23
(1,2077)	1:140:A:LYS:HB2	1:141:A:THR:H	9	0.23
(1,2077)	1:140:A:LYS:HB2	1:141:A:THR:H	10	0.23
(1,1994)	1:208:A:ARG:H	1:232:A:VAL:HB	13	0.23
(1,1877)	1:119:A:ASP:H	1:122:A:GLU:HG2	13	0.23
(1,1877)	1:119:A:ASP:H	1:122:A:GLU:HG2	16	0.23
(1,177)	1:260:A:ALA:H	1:261:A:GLU:H	1	0.23
(3,33)	1:147:A:PHE:H	1:136:A:LYS:O	11	0.22
(3,33)	1:147:A:PHE:H	1:136:A:LYS:O	17	0.22
(3,2)	1:121:A:LYS:H	1:117:A:GLU:O	3	0.22
(3,2)	1:121:A:LYS:H	1:117:A:GLU:O	5	0.22
(3,2)	1:121:A:LYS:H	1:117:A:GLU:O	16	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2)	1:121:A:LYS:H	1:117:A:GLU:O	19	0.22
(1,4878)	2:5:B:G:H8	2:5:B:G:H4'	1	0.22
(1,4878)	2:5:B:G:H8	2:5:B:G:H4'	8	0.22
(1,4878)	2:5:B:G:H8	2:5:B:G:H4'	14	0.22
(1,4561)	2:5:B:G:H8	1:197:A:ARG:HD3	12	0.22
(1,2161)	1:127:A:PHE:HZ	1:161:A:VAL:HB	10	0.22
(1,2161)	1:127:A:PHE:HZ	1:161:A:VAL:HB	19	0.22
(1,2077)	1:140:A:LYS:HB2	1:141:A:THR:H	2	0.22
(1,2077)	1:140:A:LYS:HB2	1:141:A:THR:H	3	0.22
(1,2077)	1:140:A:LYS:HB2	1:141:A:THR:H	4	0.22
(1,2077)	1:140:A:LYS:HB2	1:141:A:THR:H	18	0.22
(1,2077)	1:140:A:LYS:HB2	1:141:A:THR:H	20	0.22
(1,1994)	1:208:A:ARG:H	1:232:A:VAL:HB	7	0.22
(1,1994)	1:208:A:ARG:H	1:232:A:VAL:HB	16	0.22
(1,1877)	1:119:A:ASP:H	1:122:A:GLU:HG2	12	0.22
(1,1877)	1:119:A:ASP:H	1:122:A:GLU:HG2	14	0.22
(1,1877)	1:119:A:ASP:H	1:122:A:GLU:HG2	17	0.22
(1,1877)	1:119:A:ASP:H	1:122:A:GLU:HG2	19	0.22
(1,177)	1:260:A:ALA:H	1:261:A:GLU:H	12	0.22
(3,2)	1:121:A:LYS:H	1:117:A:GLU:O	11	0.21
(3,2)	1:121:A:LYS:H	1:117:A:GLU:O	14	0.21
(1,4919)	2:8:B:U:H5	2:8:B:U:H3'	4	0.21
(1,4523)	2:8:B:U:H1'	1:263:A:LYS:H	13	0.21
(1,4520)	2:8:B:U:H4'	1:230:A:ALA:H	9	0.21
(1,2362)	1:207:A:LEU:HG	1:211:A:PHE:HZ	16	0.21
(1,2362)	1:207:A:LEU:HG	1:211:A:PHE:HZ	17	0.21
(1,2161)	1:127:A:PHE:HZ	1:161:A:VAL:HB	15	0.21
(1,2077)	1:140:A:LYS:HB2	1:141:A:THR:H	11	0.21
(1,1877)	1:119:A:ASP:H	1:122:A:GLU:HG2	1	0.21
(1,1877)	1:119:A:ASP:H	1:122:A:GLU:HG2	2	0.21
(1,1877)	1:119:A:ASP:H	1:122:A:GLU:HG2	3	0.21
(1,1877)	1:119:A:ASP:H	1:122:A:GLU:HG2	6	0.21
(1,1877)	1:119:A:ASP:H	1:122:A:GLU:HG2	7	0.21
(1,1877)	1:119:A:ASP:H	1:122:A:GLU:HG2	10	0.21
(1,1877)	1:119:A:ASP:H	1:122:A:GLU:HG2	11	0.21
(1,1877)	1:119:A:ASP:H	1:122:A:GLU:HG2	15	0.21
(1,674)	1:207:A:LEU:H	1:207:A:LEU:HG	1	0.21
(1,357)	1:102:A:LYS:H	1:102:A:LYS:HD3	12	0.21
(1,357)	1:102:A:LYS:H	1:102:A:LYS:HD2	12	0.21
(1,177)	1:260:A:ALA:H	1:261:A:GLU:H	4	0.21
(1,177)	1:260:A:ALA:H	1:261:A:GLU:H	8	0.21
(3,12)	1:121:A:LYS:N	1:117:A:GLU:O	1	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,12)	1:121:A:LYS:N	1:117:A:GLU:O	2	0.2
(3,12)	1:121:A:LYS:N	1:117:A:GLU:O	18	0.2
(3,2)	1:121:A:LYS:H	1:117:A:GLU:O	8	0.2
(3,2)	1:121:A:LYS:H	1:117:A:GLU:O	12	0.2
(1,4919)	2:8:B:U:H5	2:8:B:U:H3'	9	0.2
(1,4880)	2:5:B:G:H1'	2:6:B:A:H8	10	0.2
(1,4523)	2:8:B:U:H1'	1:263:A:LYS:H	20	0.2
(1,4327)	1:220:A:VAL:HG11	1:232:A:VAL:HG11	16	0.2
(1,4327)	1:220:A:VAL:HG11	1:232:A:VAL:HG12	16	0.2
(1,4327)	1:220:A:VAL:HG11	1:232:A:VAL:HG13	16	0.2
(1,4327)	1:220:A:VAL:HG11	1:232:A:VAL:HG21	16	0.2
(1,4327)	1:220:A:VAL:HG11	1:232:A:VAL:HG22	16	0.2
(1,4327)	1:220:A:VAL:HG11	1:232:A:VAL:HG23	16	0.2
(1,4327)	1:220:A:VAL:HG12	1:232:A:VAL:HG11	16	0.2
(1,4327)	1:220:A:VAL:HG12	1:232:A:VAL:HG12	16	0.2
(1,4327)	1:220:A:VAL:HG12	1:232:A:VAL:HG13	16	0.2
(1,4327)	1:220:A:VAL:HG12	1:232:A:VAL:HG21	16	0.2
(1,4327)	1:220:A:VAL:HG12	1:232:A:VAL:HG22	16	0.2
(1,4327)	1:220:A:VAL:HG12	1:232:A:VAL:HG23	16	0.2
(1,4327)	1:220:A:VAL:HG13	1:232:A:VAL:HG11	16	0.2
(1,4327)	1:220:A:VAL:HG13	1:232:A:VAL:HG12	16	0.2
(1,4327)	1:220:A:VAL:HG13	1:232:A:VAL:HG13	16	0.2
(1,4327)	1:220:A:VAL:HG13	1:232:A:VAL:HG21	16	0.2
(1,4327)	1:220:A:VAL:HG13	1:232:A:VAL:HG22	16	0.2
(1,4327)	1:220:A:VAL:HG13	1:232:A:VAL:HG23	16	0.2
(1,4327)	1:220:A:VAL:HG21	1:232:A:VAL:HG11	16	0.2
(1,4327)	1:220:A:VAL:HG21	1:232:A:VAL:HG12	16	0.2
(1,4327)	1:220:A:VAL:HG21	1:232:A:VAL:HG13	16	0.2
(1,4327)	1:220:A:VAL:HG21	1:232:A:VAL:HG21	16	0.2
(1,4327)	1:220:A:VAL:HG21	1:232:A:VAL:HG22	16	0.2
(1,4327)	1:220:A:VAL:HG21	1:232:A:VAL:HG23	16	0.2
(1,4327)	1:220:A:VAL:HG22	1:232:A:VAL:HG11	16	0.2
(1,4327)	1:220:A:VAL:HG22	1:232:A:VAL:HG12	16	0.2
(1,4327)	1:220:A:VAL:HG22	1:232:A:VAL:HG13	16	0.2
(1,4327)	1:220:A:VAL:HG22	1:232:A:VAL:HG21	16	0.2
(1,4327)	1:220:A:VAL:HG22	1:232:A:VAL:HG22	16	0.2
(1,4327)	1:220:A:VAL:HG22	1:232:A:VAL:HG23	16	0.2
(1,4327)	1:220:A:VAL:HG23	1:232:A:VAL:HG11	16	0.2
(1,4327)	1:220:A:VAL:HG23	1:232:A:VAL:HG12	16	0.2
(1,4327)	1:220:A:VAL:HG23	1:232:A:VAL:HG13	16	0.2
(1,4327)	1:220:A:VAL:HG23	1:232:A:VAL:HG21	16	0.2
(1,4327)	1:220:A:VAL:HG23	1:232:A:VAL:HG22	16	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4327)	1:220:A:VAL:HG23	1:232:A:VAL:HG23	16	0.2
(1,2636)	1:224:A:LYS:HG3	1:225:A:PRO:HA	6	0.2
(1,2362)	1:207:A:LEU:HG	1:211:A:PHE:HZ	13	0.2
(1,2077)	1:140:A:LYS:HB2	1:141:A:THR:H	7	0.2
(1,1994)	1:208:A:ARG:H	1:232:A:VAL:HB	17	0.2
(1,1877)	1:119:A:ASP:H	1:122:A:GLU:HG2	4	0.2
(1,1877)	1:119:A:ASP:H	1:122:A:GLU:HG2	5	0.2
(1,1877)	1:119:A:ASP:H	1:122:A:GLU:HG2	8	0.2
(1,1877)	1:119:A:ASP:H	1:122:A:GLU:HG2	9	0.2
(1,1877)	1:119:A:ASP:H	1:122:A:GLU:HG2	20	0.2
(1,357)	1:102:A:LYS:H	1:102:A:LYS:HD3	10	0.2
(1,357)	1:102:A:LYS:H	1:102:A:LYS:HD2	10	0.2
(1,177)	1:260:A:ALA:H	1:261:A:GLU:H	2	0.2
(1,177)	1:260:A:ALA:H	1:261:A:GLU:H	5	0.2
(1,177)	1:260:A:ALA:H	1:261:A:GLU:H	9	0.2
(1,177)	1:260:A:ALA:H	1:261:A:GLU:H	10	0.2
(1,177)	1:260:A:ALA:H	1:261:A:GLU:H	14	0.2
(1,177)	1:260:A:ALA:H	1:261:A:GLU:H	15	0.2
(1,177)	1:260:A:ALA:H	1:261:A:GLU:H	16	0.2
(1,177)	1:260:A:ALA:H	1:261:A:GLU:H	19	0.2
(3,12)	1:121:A:LYS:N	1:117:A:GLU:O	17	0.19
(3,2)	1:121:A:LYS:H	1:117:A:GLU:O	6	0.19
(1,4973)	2:11:B:A:H4'	2:11:B:A:H1'	18	0.19
(1,4919)	2:8:B:U:H5	2:8:B:U:H3'	12	0.19
(1,4919)	2:8:B:U:H5	2:8:B:U:H3'	18	0.19
(1,4881)	2:5:B:G:H2'	2:6:B:A:H8	12	0.19
(1,4878)	2:5:B:G:H8	2:5:B:G:H4'	2	0.19
(1,4523)	2:8:B:U:H1'	1:263:A:LYS:H	14	0.19
(1,4327)	1:220:A:VAL:HG11	1:232:A:VAL:HG11	13	0.19
(1,4327)	1:220:A:VAL:HG11	1:232:A:VAL:HG12	13	0.19
(1,4327)	1:220:A:VAL:HG11	1:232:A:VAL:HG13	13	0.19
(1,4327)	1:220:A:VAL:HG11	1:232:A:VAL:HG21	13	0.19
(1,4327)	1:220:A:VAL:HG11	1:232:A:VAL:HG22	13	0.19
(1,4327)	1:220:A:VAL:HG11	1:232:A:VAL:HG23	13	0.19
(1,4327)	1:220:A:VAL:HG12	1:232:A:VAL:HG11	13	0.19
(1,4327)	1:220:A:VAL:HG12	1:232:A:VAL:HG12	13	0.19
(1,4327)	1:220:A:VAL:HG12	1:232:A:VAL:HG13	13	0.19
(1,4327)	1:220:A:VAL:HG12	1:232:A:VAL:HG21	13	0.19
(1,4327)	1:220:A:VAL:HG12	1:232:A:VAL:HG22	13	0.19
(1,4327)	1:220:A:VAL:HG12	1:232:A:VAL:HG23	13	0.19
(1,4327)	1:220:A:VAL:HG13	1:232:A:VAL:HG11	13	0.19
(1,4327)	1:220:A:VAL:HG13	1:232:A:VAL:HG12	13	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4327)	1:220:A:VAL:HG13	1:232:A:VAL:HG13	13	0.19
(1,4327)	1:220:A:VAL:HG13	1:232:A:VAL:HG21	13	0.19
(1,4327)	1:220:A:VAL:HG13	1:232:A:VAL:HG22	13	0.19
(1,4327)	1:220:A:VAL:HG13	1:232:A:VAL:HG23	13	0.19
(1,4327)	1:220:A:VAL:HG21	1:232:A:VAL:HG11	13	0.19
(1,4327)	1:220:A:VAL:HG21	1:232:A:VAL:HG12	13	0.19
(1,4327)	1:220:A:VAL:HG21	1:232:A:VAL:HG13	13	0.19
(1,4327)	1:220:A:VAL:HG21	1:232:A:VAL:HG21	13	0.19
(1,4327)	1:220:A:VAL:HG21	1:232:A:VAL:HG22	13	0.19
(1,4327)	1:220:A:VAL:HG21	1:232:A:VAL:HG23	13	0.19
(1,4327)	1:220:A:VAL:HG22	1:232:A:VAL:HG11	13	0.19
(1,4327)	1:220:A:VAL:HG22	1:232:A:VAL:HG12	13	0.19
(1,4327)	1:220:A:VAL:HG22	1:232:A:VAL:HG13	13	0.19
(1,4327)	1:220:A:VAL:HG22	1:232:A:VAL:HG21	13	0.19
(1,4327)	1:220:A:VAL:HG22	1:232:A:VAL:HG22	13	0.19
(1,4327)	1:220:A:VAL:HG22	1:232:A:VAL:HG23	13	0.19
(1,4327)	1:220:A:VAL:HG23	1:232:A:VAL:HG11	13	0.19
(1,4327)	1:220:A:VAL:HG23	1:232:A:VAL:HG12	13	0.19
(1,4327)	1:220:A:VAL:HG23	1:232:A:VAL:HG13	13	0.19
(1,4327)	1:220:A:VAL:HG23	1:232:A:VAL:HG21	13	0.19
(1,4327)	1:220:A:VAL:HG23	1:232:A:VAL:HG22	13	0.19
(1,4327)	1:220:A:VAL:HG23	1:232:A:VAL:HG23	13	0.19
(1,4327)	1:220:A:VAL:HG11	1:232:A:VAL:HG11	17	0.19
(1,4327)	1:220:A:VAL:HG11	1:232:A:VAL:HG12	17	0.19
(1,4327)	1:220:A:VAL:HG11	1:232:A:VAL:HG13	17	0.19
(1,4327)	1:220:A:VAL:HG11	1:232:A:VAL:HG21	17	0.19
(1,4327)	1:220:A:VAL:HG11	1:232:A:VAL:HG22	17	0.19
(1,4327)	1:220:A:VAL:HG11	1:232:A:VAL:HG23	17	0.19
(1,4327)	1:220:A:VAL:HG12	1:232:A:VAL:HG11	17	0.19
(1,4327)	1:220:A:VAL:HG12	1:232:A:VAL:HG12	17	0.19
(1,4327)	1:220:A:VAL:HG12	1:232:A:VAL:HG13	17	0.19
(1,4327)	1:220:A:VAL:HG12	1:232:A:VAL:HG21	17	0.19
(1,4327)	1:220:A:VAL:HG12	1:232:A:VAL:HG22	17	0.19
(1,4327)	1:220:A:VAL:HG12	1:232:A:VAL:HG23	17	0.19
(1,4327)	1:220:A:VAL:HG13	1:232:A:VAL:HG11	17	0.19
(1,4327)	1:220:A:VAL:HG13	1:232:A:VAL:HG12	17	0.19
(1,4327)	1:220:A:VAL:HG13	1:232:A:VAL:HG13	17	0.19
(1,4327)	1:220:A:VAL:HG13	1:232:A:VAL:HG21	17	0.19
(1,4327)	1:220:A:VAL:HG13	1:232:A:VAL:HG22	17	0.19
(1,4327)	1:220:A:VAL:HG13	1:232:A:VAL:HG23	17	0.19
(1,4327)	1:220:A:VAL:HG21	1:232:A:VAL:HG11	17	0.19
(1,4327)	1:220:A:VAL:HG21	1:232:A:VAL:HG12	17	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4327)	1:220:A:VAL:HG21	1:232:A:VAL:HG13	17	0.19
(1,4327)	1:220:A:VAL:HG21	1:232:A:VAL:HG21	17	0.19
(1,4327)	1:220:A:VAL:HG21	1:232:A:VAL:HG22	17	0.19
(1,4327)	1:220:A:VAL:HG21	1:232:A:VAL:HG23	17	0.19
(1,4327)	1:220:A:VAL:HG22	1:232:A:VAL:HG11	17	0.19
(1,4327)	1:220:A:VAL:HG22	1:232:A:VAL:HG12	17	0.19
(1,4327)	1:220:A:VAL:HG22	1:232:A:VAL:HG13	17	0.19
(1,4327)	1:220:A:VAL:HG22	1:232:A:VAL:HG21	17	0.19
(1,4327)	1:220:A:VAL:HG22	1:232:A:VAL:HG22	17	0.19
(1,4327)	1:220:A:VAL:HG22	1:232:A:VAL:HG23	17	0.19
(1,4327)	1:220:A:VAL:HG23	1:232:A:VAL:HG11	17	0.19
(1,4327)	1:220:A:VAL:HG23	1:232:A:VAL:HG12	17	0.19
(1,4327)	1:220:A:VAL:HG23	1:232:A:VAL:HG13	17	0.19
(1,4327)	1:220:A:VAL:HG23	1:232:A:VAL:HG21	17	0.19
(1,4327)	1:220:A:VAL:HG23	1:232:A:VAL:HG22	17	0.19
(1,4327)	1:220:A:VAL:HG23	1:232:A:VAL:HG23	17	0.19
(1,2077)	1:140:A:LYS:HB2	1:141:A:THR:H	5	0.19
(1,2077)	1:140:A:LYS:HB2	1:141:A:THR:H	8	0.19
(1,2077)	1:140:A:LYS:HB2	1:141:A:THR:H	12	0.19
(1,2077)	1:140:A:LYS:HB2	1:141:A:THR:H	19	0.19
(1,2041)	1:208:A:ARG:HD2	1:217:A:VAL:HB	7	0.19
(1,2041)	1:208:A:ARG:HD2	1:217:A:VAL:HB	20	0.19
(1,1994)	1:208:A:ARG:H	1:232:A:VAL:HB	9	0.19
(1,813)	1:153:A:THR:HB	1:154:A:GLU:H	14	0.19
(1,813)	1:153:A:THR:HB	1:154:A:GLU:H	17	0.19
(1,357)	1:102:A:LYS:H	1:102:A:LYS:HD3	1	0.19
(1,357)	1:102:A:LYS:H	1:102:A:LYS:HD2	1	0.19
(1,177)	1:260:A:ALA:H	1:261:A:GLU:H	18	0.19
(1,177)	1:260:A:ALA:H	1:261:A:GLU:H	20	0.19
(3,78)	1:147:A:PHE:N	1:136:A:LYS:O	6	0.18
(3,12)	1:121:A:LYS:N	1:117:A:GLU:O	7	0.18
(3,12)	1:121:A:LYS:N	1:117:A:GLU:O	10	0.18
(3,12)	1:121:A:LYS:N	1:117:A:GLU:O	13	0.18
(3,12)	1:121:A:LYS:N	1:117:A:GLU:O	16	0.18
(1,4878)	2:5:B:G:H8	2:5:B:G:H4'	7	0.18
(1,4878)	2:5:B:G:H8	2:5:B:G:H4'	10	0.18
(1,4521)	2:8:B:U:H5	1:259:A:ASN:H	12	0.18
(1,4520)	2:8:B:U:H4'	1:230:A:ALA:H	5	0.18
(1,4520)	2:8:B:U:H4'	1:230:A:ALA:H	18	0.18
(1,4327)	1:220:A:VAL:HG11	1:232:A:VAL:HG11	9	0.18
(1,4327)	1:220:A:VAL:HG11	1:232:A:VAL:HG12	9	0.18
(1,4327)	1:220:A:VAL:HG11	1:232:A:VAL:HG13	9	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4327)	1:220:A:VAL:HG11	1:232:A:VAL:HG21	9	0.18
(1,4327)	1:220:A:VAL:HG11	1:232:A:VAL:HG22	9	0.18
(1,4327)	1:220:A:VAL:HG11	1:232:A:VAL:HG23	9	0.18
(1,4327)	1:220:A:VAL:HG12	1:232:A:VAL:HG11	9	0.18
(1,4327)	1:220:A:VAL:HG12	1:232:A:VAL:HG12	9	0.18
(1,4327)	1:220:A:VAL:HG12	1:232:A:VAL:HG13	9	0.18
(1,4327)	1:220:A:VAL:HG12	1:232:A:VAL:HG21	9	0.18
(1,4327)	1:220:A:VAL:HG12	1:232:A:VAL:HG22	9	0.18
(1,4327)	1:220:A:VAL:HG12	1:232:A:VAL:HG23	9	0.18
(1,4327)	1:220:A:VAL:HG13	1:232:A:VAL:HG11	9	0.18
(1,4327)	1:220:A:VAL:HG13	1:232:A:VAL:HG12	9	0.18
(1,4327)	1:220:A:VAL:HG13	1:232:A:VAL:HG13	9	0.18
(1,4327)	1:220:A:VAL:HG13	1:232:A:VAL:HG21	9	0.18
(1,4327)	1:220:A:VAL:HG13	1:232:A:VAL:HG22	9	0.18
(1,4327)	1:220:A:VAL:HG13	1:232:A:VAL:HG23	9	0.18
(1,4327)	1:220:A:VAL:HG21	1:232:A:VAL:HG11	9	0.18
(1,4327)	1:220:A:VAL:HG21	1:232:A:VAL:HG12	9	0.18
(1,4327)	1:220:A:VAL:HG21	1:232:A:VAL:HG13	9	0.18
(1,4327)	1:220:A:VAL:HG21	1:232:A:VAL:HG21	9	0.18
(1,4327)	1:220:A:VAL:HG21	1:232:A:VAL:HG22	9	0.18
(1,4327)	1:220:A:VAL:HG21	1:232:A:VAL:HG23	9	0.18
(1,4327)	1:220:A:VAL:HG22	1:232:A:VAL:HG11	9	0.18
(1,4327)	1:220:A:VAL:HG22	1:232:A:VAL:HG12	9	0.18
(1,4327)	1:220:A:VAL:HG22	1:232:A:VAL:HG13	9	0.18
(1,4327)	1:220:A:VAL:HG22	1:232:A:VAL:HG21	9	0.18
(1,4327)	1:220:A:VAL:HG22	1:232:A:VAL:HG22	9	0.18
(1,4327)	1:220:A:VAL:HG22	1:232:A:VAL:HG23	9	0.18
(1,4327)	1:220:A:VAL:HG23	1:232:A:VAL:HG11	9	0.18
(1,4327)	1:220:A:VAL:HG23	1:232:A:VAL:HG12	9	0.18
(1,4327)	1:220:A:VAL:HG23	1:232:A:VAL:HG13	9	0.18
(1,4327)	1:220:A:VAL:HG23	1:232:A:VAL:HG21	9	0.18
(1,4327)	1:220:A:VAL:HG23	1:232:A:VAL:HG22	9	0.18
(1,4327)	1:220:A:VAL:HG23	1:232:A:VAL:HG23	9	0.18
(1,2362)	1:207:A:LEU:HG	1:211:A:PHE:HZ	2	0.18
(1,2362)	1:207:A:LEU:HG	1:211:A:PHE:HZ	4	0.18
(1,2362)	1:207:A:LEU:HG	1:211:A:PHE:HZ	6	0.18
(1,2362)	1:207:A:LEU:HG	1:211:A:PHE:HZ	8	0.18
(1,2362)	1:207:A:LEU:HG	1:211:A:PHE:HZ	19	0.18
(1,2077)	1:140:A:LYS:HB2	1:141:A:THR:H	13	0.18
(1,2077)	1:140:A:LYS:HB2	1:141:A:THR:H	14	0.18
(1,2077)	1:140:A:LYS:HB2	1:141:A:THR:H	15	0.18
(1,2077)	1:140:A:LYS:HB2	1:141:A:THR:H	16	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2077)	1:140:A:LYS:HB2	1:141:A:THR:H	17	0.18
(1,2041)	1:208:A:ARG:HD2	1:217:A:VAL:HB	4	0.18
(1,2041)	1:208:A:ARG:HD2	1:217:A:VAL:HB	6	0.18
(1,2041)	1:208:A:ARG:HD2	1:217:A:VAL:HB	16	0.18
(1,2041)	1:208:A:ARG:HD2	1:217:A:VAL:HB	18	0.18
(1,1877)	1:119:A:ASP:H	1:122:A:GLU:HG2	18	0.18
(1,813)	1:153:A:THR:HB	1:154:A:GLU:H	7	0.18
(1,813)	1:153:A:THR:HB	1:154:A:GLU:H	15	0.18
(1,813)	1:153:A:THR:HB	1:154:A:GLU:H	18	0.18
(1,791)	1:202:A:MET:H	1:253:A:ILE:HG13	6	0.18
(1,791)	1:202:A:MET:H	1:253:A:ILE:HG13	8	0.18
(1,791)	1:202:A:MET:H	1:253:A:ILE:HG13	10	0.18
(1,791)	1:202:A:MET:H	1:253:A:ILE:HG13	18	0.18
(1,377)	1:183:A:SER:HA	1:184:A:GLN:H	5	0.18
(1,357)	1:102:A:LYS:H	1:102:A:LYS:HD3	2	0.18
(1,357)	1:102:A:LYS:H	1:102:A:LYS:HD2	2	0.18
(1,357)	1:102:A:LYS:H	1:102:A:LYS:HD3	19	0.18
(1,357)	1:102:A:LYS:H	1:102:A:LYS:HD2	19	0.18
(1,177)	1:260:A:ALA:H	1:261:A:GLU:H	3	0.18
(1,177)	1:260:A:ALA:H	1:261:A:GLU:H	17	0.18
(3,12)	1:121:A:LYS:N	1:117:A:GLU:O	3	0.17
(3,12)	1:121:A:LYS:N	1:117:A:GLU:O	4	0.17
(3,12)	1:121:A:LYS:N	1:117:A:GLU:O	9	0.17
(3,12)	1:121:A:LYS:N	1:117:A:GLU:O	15	0.17
(1,4973)	2:11:B:A:H4'	2:11:B:A:H1'	6	0.17
(1,4967)	2:10:B:A:H5'	2:11:B:A:H8	19	0.17
(1,4952)	2:10:B:A:H5'	2:10:B:A:H4'	16	0.17
(1,4878)	2:5:B:G:H8	2:5:B:G:H4'	6	0.17
(1,4740)	1:166:A:HIS:HE1	1:161:A:VAL:H	15	0.17
(1,4673)	2:9:B:G:H4'	1:231:A:PHE:HZ	17	0.17
(1,4673)	2:9:B:G:H4'	1:231:A:PHE:HZ	20	0.17
(1,4523)	2:8:B:U:H1'	1:263:A:LYS:H	2	0.17
(1,4520)	2:8:B:U:H4'	1:230:A:ALA:H	4	0.17
(1,4327)	1:220:A:VAL:HG11	1:232:A:VAL:HG11	7	0.17
(1,4327)	1:220:A:VAL:HG11	1:232:A:VAL:HG12	7	0.17
(1,4327)	1:220:A:VAL:HG11	1:232:A:VAL:HG13	7	0.17
(1,4327)	1:220:A:VAL:HG11	1:232:A:VAL:HG21	7	0.17
(1,4327)	1:220:A:VAL:HG11	1:232:A:VAL:HG22	7	0.17
(1,4327)	1:220:A:VAL:HG11	1:232:A:VAL:HG23	7	0.17
(1,4327)	1:220:A:VAL:HG12	1:232:A:VAL:HG11	7	0.17
(1,4327)	1:220:A:VAL:HG12	1:232:A:VAL:HG12	7	0.17
(1,4327)	1:220:A:VAL:HG12	1:232:A:VAL:HG13	7	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4327)	1:220:A:VAL:HG12	1:232:A:VAL:HG21	7	0.17
(1,4327)	1:220:A:VAL:HG12	1:232:A:VAL:HG22	7	0.17
(1,4327)	1:220:A:VAL:HG12	1:232:A:VAL:HG23	7	0.17
(1,4327)	1:220:A:VAL:HG13	1:232:A:VAL:HG11	7	0.17
(1,4327)	1:220:A:VAL:HG13	1:232:A:VAL:HG12	7	0.17
(1,4327)	1:220:A:VAL:HG13	1:232:A:VAL:HG13	7	0.17
(1,4327)	1:220:A:VAL:HG13	1:232:A:VAL:HG21	7	0.17
(1,4327)	1:220:A:VAL:HG13	1:232:A:VAL:HG22	7	0.17
(1,4327)	1:220:A:VAL:HG13	1:232:A:VAL:HG23	7	0.17
(1,4327)	1:220:A:VAL:HG21	1:232:A:VAL:HG11	7	0.17
(1,4327)	1:220:A:VAL:HG21	1:232:A:VAL:HG12	7	0.17
(1,4327)	1:220:A:VAL:HG21	1:232:A:VAL:HG13	7	0.17
(1,4327)	1:220:A:VAL:HG21	1:232:A:VAL:HG21	7	0.17
(1,4327)	1:220:A:VAL:HG21	1:232:A:VAL:HG22	7	0.17
(1,4327)	1:220:A:VAL:HG21	1:232:A:VAL:HG23	7	0.17
(1,4327)	1:220:A:VAL:HG22	1:232:A:VAL:HG11	7	0.17
(1,4327)	1:220:A:VAL:HG22	1:232:A:VAL:HG12	7	0.17
(1,4327)	1:220:A:VAL:HG22	1:232:A:VAL:HG13	7	0.17
(1,4327)	1:220:A:VAL:HG22	1:232:A:VAL:HG21	7	0.17
(1,4327)	1:220:A:VAL:HG22	1:232:A:VAL:HG22	7	0.17
(1,4327)	1:220:A:VAL:HG22	1:232:A:VAL:HG23	7	0.17
(1,4327)	1:220:A:VAL:HG23	1:232:A:VAL:HG11	7	0.17
(1,4327)	1:220:A:VAL:HG23	1:232:A:VAL:HG12	7	0.17
(1,4327)	1:220:A:VAL:HG23	1:232:A:VAL:HG13	7	0.17
(1,4327)	1:220:A:VAL:HG23	1:232:A:VAL:HG21	7	0.17
(1,4327)	1:220:A:VAL:HG23	1:232:A:VAL:HG22	7	0.17
(1,4327)	1:220:A:VAL:HG23	1:232:A:VAL:HG23	7	0.17
(1,2636)	1:224:A:LYS:HG3	1:225:A:PRO:HA	5	0.17
(1,2362)	1:207:A:LEU:HG	1:211:A:PHE:HZ	3	0.17
(1,2362)	1:207:A:LEU:HG	1:211:A:PHE:HZ	10	0.17
(1,2362)	1:207:A:LEU:HG	1:211:A:PHE:HZ	11	0.17
(1,2362)	1:207:A:LEU:HG	1:211:A:PHE:HZ	12	0.17
(1,2362)	1:207:A:LEU:HG	1:211:A:PHE:HZ	14	0.17
(1,2362)	1:207:A:LEU:HG	1:211:A:PHE:HZ	18	0.17
(1,2362)	1:207:A:LEU:HG	1:211:A:PHE:HZ	20	0.17
(1,2077)	1:140:A:LYS:HB2	1:141:A:THR:H	1	0.17
(1,2041)	1:208:A:ARG:HD2	1:217:A:VAL:HB	10	0.17
(1,2041)	1:208:A:ARG:HD2	1:217:A:VAL:HB	11	0.17
(1,2041)	1:208:A:ARG:HD2	1:217:A:VAL:HB	14	0.17
(1,2041)	1:208:A:ARG:HD2	1:217:A:VAL:HB	17	0.17
(1,2041)	1:208:A:ARG:HD2	1:217:A:VAL:HB	19	0.17
(1,813)	1:153:A:THR:HB	1:154:A:GLU:H	1	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,813)	1:153:A:THR:HB	1:154:A:GLU:H	2	0.17
(1,813)	1:153:A:THR:HB	1:154:A:GLU:H	3	0.17
(1,813)	1:153:A:THR:HB	1:154:A:GLU:H	4	0.17
(1,813)	1:153:A:THR:HB	1:154:A:GLU:H	5	0.17
(1,813)	1:153:A:THR:HB	1:154:A:GLU:H	8	0.17
(1,813)	1:153:A:THR:HB	1:154:A:GLU:H	9	0.17
(1,813)	1:153:A:THR:HB	1:154:A:GLU:H	10	0.17
(1,813)	1:153:A:THR:HB	1:154:A:GLU:H	11	0.17
(1,813)	1:153:A:THR:HB	1:154:A:GLU:H	12	0.17
(1,813)	1:153:A:THR:HB	1:154:A:GLU:H	16	0.17
(1,813)	1:153:A:THR:HB	1:154:A:GLU:H	19	0.17
(1,813)	1:153:A:THR:HB	1:154:A:GLU:H	20	0.17
(1,791)	1:202:A:MET:H	1:253:A:ILE:HG13	4	0.17
(1,791)	1:202:A:MET:H	1:253:A:ILE:HG13	13	0.17
(1,791)	1:202:A:MET:H	1:253:A:ILE:HG13	16	0.17
(1,791)	1:202:A:MET:H	1:253:A:ILE:HG13	20	0.17
(1,222)	1:135:A:VAL:H	1:136:A:LYS:H	5	0.17
(1,222)	1:135:A:VAL:H	1:136:A:LYS:H	11	0.17
(1,222)	1:135:A:VAL:H	1:136:A:LYS:H	17	0.17
(3,78)	1:147:A:PHE:N	1:136:A:LYS:O	8	0.16
(3,78)	1:147:A:PHE:N	1:136:A:LYS:O	16	0.16
(3,12)	1:121:A:LYS:N	1:117:A:GLU:O	19	0.16
(3,12)	1:121:A:LYS:N	1:117:A:GLU:O	20	0.16
(1,4952)	2:10:B:A:H5'	2:10:B:A:H4'	6	0.16
(1,4673)	2:9:B:G:H4'	1:231:A:PHE:HZ	4	0.16
(1,4673)	2:9:B:G:H4'	1:231:A:PHE:HZ	14	0.16
(1,4567)	2:5:B:G:H5'	1:197:A:ARG:HD3	15	0.16
(1,4521)	2:8:B:U:H5	1:259:A:ASN:H	5	0.16
(1,2566)	1:111:A:LEU:H	1:111:A:LEU:HG	2	0.16
(1,2362)	1:207:A:LEU:HG	1:211:A:PHE:HZ	5	0.16
(1,2362)	1:207:A:LEU:HG	1:211:A:PHE:HZ	15	0.16
(1,2041)	1:208:A:ARG:HD2	1:217:A:VAL:HB	2	0.16
(1,2041)	1:208:A:ARG:HD2	1:217:A:VAL:HB	5	0.16
(1,2041)	1:208:A:ARG:HD2	1:217:A:VAL:HB	8	0.16
(1,2041)	1:208:A:ARG:HD2	1:217:A:VAL:HB	12	0.16
(1,2041)	1:208:A:ARG:HD2	1:217:A:VAL:HB	13	0.16
(1,2041)	1:208:A:ARG:HD2	1:217:A:VAL:HB	15	0.16
(1,813)	1:153:A:THR:HB	1:154:A:GLU:H	6	0.16
(1,813)	1:153:A:THR:HB	1:154:A:GLU:H	13	0.16
(1,791)	1:202:A:MET:H	1:253:A:ILE:HG13	1	0.16
(1,791)	1:202:A:MET:H	1:253:A:ILE:HG13	5	0.16
(1,791)	1:202:A:MET:H	1:253:A:ILE:HG13	11	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,791)	1:202:A:MET:H	1:253:A:ILE:HG13	12	0.16
(1,791)	1:202:A:MET:H	1:253:A:ILE:HG13	17	0.16
(1,791)	1:202:A:MET:H	1:253:A:ILE:HG13	19	0.16
(1,222)	1:135:A:VAL:H	1:136:A:LYS:H	3	0.16
(1,222)	1:135:A:VAL:H	1:136:A:LYS:H	4	0.16
(1,222)	1:135:A:VAL:H	1:136:A:LYS:H	10	0.16
(1,222)	1:135:A:VAL:H	1:136:A:LYS:H	12	0.16
(1,222)	1:135:A:VAL:H	1:136:A:LYS:H	13	0.16
(1,222)	1:135:A:VAL:H	1:136:A:LYS:H	14	0.16
(1,222)	1:135:A:VAL:H	1:136:A:LYS:H	15	0.16
(1,222)	1:135:A:VAL:H	1:136:A:LYS:H	19	0.16
(1,222)	1:135:A:VAL:H	1:136:A:LYS:H	20	0.16
(3,78)	1:147:A:PHE:N	1:136:A:LYS:O	11	0.15
(3,78)	1:147:A:PHE:N	1:136:A:LYS:O	12	0.15
(3,78)	1:147:A:PHE:N	1:136:A:LYS:O	17	0.15
(3,12)	1:121:A:LYS:N	1:117:A:GLU:O	6	0.15
(1,4827)	2:3:B:G:H1'	2:4:B:U:H5	20	0.15
(1,4740)	1:166:A:HIS:HE1	1:161:A:VAL:H	1	0.15
(1,4740)	1:166:A:HIS:HE1	1:161:A:VAL:H	11	0.15
(1,4567)	2:5:B:G:H5'	1:197:A:ARG:HD3	8	0.15
(1,4567)	2:5:B:G:H5'	1:197:A:ARG:HD3	13	0.15
(1,4567)	2:5:B:G:H5'	1:197:A:ARG:HD3	16	0.15
(1,4523)	2:8:B:U:H1'	1:263:A:LYS:H	3	0.15
(1,4521)	2:8:B:U:H5	1:259:A:ASN:H	2	0.15
(1,4521)	2:8:B:U:H5	1:259:A:ASN:H	18	0.15
(1,4520)	2:8:B:U:H4'	1:230:A:ALA:H	2	0.15
(1,2582)	1:111:A:LEU:HA	1:111:A:LEU:HG	11	0.15
(1,2240)	1:209:A:GLU:HB3	1:210:A:PHE:H	4	0.15
(1,2077)	1:140:A:LYS:HB2	1:141:A:THR:H	6	0.15
(1,2041)	1:208:A:ARG:HD2	1:217:A:VAL:HB	1	0.15
(1,791)	1:202:A:MET:H	1:253:A:ILE:HG13	2	0.15
(1,791)	1:202:A:MET:H	1:253:A:ILE:HG13	3	0.15
(1,791)	1:202:A:MET:H	1:253:A:ILE:HG13	14	0.15
(1,791)	1:202:A:MET:H	1:253:A:ILE:HG13	15	0.15
(1,749)	1:117:A:GLU:H	1:119:A:ASP:H	5	0.15
(1,280)	1:137:A:LYS:HA	1:145:A:LYS:H	16	0.15
(1,222)	1:135:A:VAL:H	1:136:A:LYS:H	1	0.15
(1,222)	1:135:A:VAL:H	1:136:A:LYS:H	2	0.15
(1,222)	1:135:A:VAL:H	1:136:A:LYS:H	6	0.15
(1,222)	1:135:A:VAL:H	1:136:A:LYS:H	7	0.15
(3,12)	1:121:A:LYS:N	1:117:A:GLU:O	5	0.14
(3,12)	1:121:A:LYS:N	1:117:A:GLU:O	11	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,12)	1:121:A:LYS:N	1:117:A:GLU:O	12	0.14
(3,12)	1:121:A:LYS:N	1:117:A:GLU:O	14	0.14
(1,4990)	2:11:B:A:H3'	2:12:B:U:H6	2	0.14
(1,4967)	2:10:B:A:H5'	2:11:B:A:H8	15	0.14
(1,4941)	2:9:B:G:H1'	2:10:B:A:H1'	15	0.14
(1,4827)	2:3:B:G:H1'	2:4:B:U:H5	4	0.14
(1,4827)	2:3:B:G:H1'	2:4:B:U:H5	15	0.14
(1,4740)	1:166:A:HIS:HE1	1:161:A:VAL:H	3	0.14
(1,4740)	1:166:A:HIS:HE1	1:161:A:VAL:H	10	0.14
(1,4699)	2:4:B:U:H3	1:178:A:PRO:HA	4	0.14
(1,4673)	2:9:B:G:H4'	1:231:A:PHE:HZ	10	0.14
(1,4673)	2:9:B:G:H4'	1:231:A:PHE:HZ	13	0.14
(1,4523)	2:8:B:U:H1'	1:263:A:LYS:H	4	0.14
(1,4523)	2:8:B:U:H1'	1:263:A:LYS:H	6	0.14
(1,4521)	2:8:B:U:H5	1:259:A:ASN:H	1	0.14
(1,4521)	2:8:B:U:H5	1:259:A:ASN:H	11	0.14
(1,2636)	1:224:A:LYS:HG3	1:225:A:PRO:HA	16	0.14
(1,2582)	1:111:A:LEU:HA	1:111:A:LEU:HG	5	0.14
(1,2240)	1:209:A:GLU:HB3	1:210:A:PHE:H	5	0.14
(1,2240)	1:209:A:GLU:HB3	1:210:A:PHE:H	20	0.14
(1,2144)	1:154:A:GLU:HB2	1:155:A:TYR:HA	7	0.14
(1,2144)	1:154:A:GLU:HB2	1:155:A:TYR:HA	8	0.14
(1,2144)	1:154:A:GLU:HB2	1:155:A:TYR:HA	16	0.14
(1,2144)	1:154:A:GLU:HB2	1:155:A:TYR:HA	17	0.14
(1,2111)	1:262:A:PRO:HB2	1:263:A:LYS:HA	20	0.14
(1,2041)	1:208:A:ARG:HD2	1:217:A:VAL:HB	3	0.14
(1,1734)	1:168:A:ILE:HA	1:169:A:ASP:HB2	18	0.14
(1,791)	1:202:A:MET:H	1:253:A:ILE:HG13	7	0.14
(1,749)	1:117:A:GLU:H	1:119:A:ASP:H	14	0.14
(1,222)	1:135:A:VAL:H	1:136:A:LYS:H	8	0.14
(1,222)	1:135:A:VAL:H	1:136:A:LYS:H	9	0.14
(1,222)	1:135:A:VAL:H	1:136:A:LYS:H	16	0.14
(3,12)	1:121:A:LYS:N	1:117:A:GLU:O	8	0.13
(1,4990)	2:11:B:A:H3'	2:12:B:U:H6	3	0.13
(1,4990)	2:11:B:A:H3'	2:12:B:U:H6	7	0.13
(1,4990)	2:11:B:A:H3'	2:12:B:U:H6	11	0.13
(1,4919)	2:8:B:U:H5	2:8:B:U:H3'	11	0.13
(1,4880)	2:5:B:G:H1'	2:6:B:A:H8	11	0.13
(1,4826)	2:3:B:G:H8	2:3:B:G:H5''	5	0.13
(1,4826)	2:3:B:G:H8	2:3:B:G:H5''	9	0.13
(1,4740)	1:166:A:HIS:HE1	1:161:A:VAL:H	7	0.13
(1,4740)	1:166:A:HIS:HE1	1:161:A:VAL:H	9	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4740)	1:166:A:HIS:HE1	1:161:A:VAL:H	12	0.13
(1,4740)	1:166:A:HIS:HE1	1:161:A:VAL:H	14	0.13
(1,4740)	1:166:A:HIS:HE1	1:161:A:VAL:H	20	0.13
(1,4738)	1:166:A:HIS:HD2	1:161:A:VAL:HB	4	0.13
(1,4738)	1:166:A:HIS:HD2	1:161:A:VAL:HB	20	0.13
(1,4699)	2:4:B:U:H3	1:178:A:PRO:HA	9	0.13
(1,4699)	2:4:B:U:H3	1:178:A:PRO:HA	17	0.13
(1,4673)	2:9:B:G:H4'	1:231:A:PHE:HZ	5	0.13
(1,4673)	2:9:B:G:H4'	1:231:A:PHE:HZ	16	0.13
(1,4577)	2:7:B:A:H8	1:228:A:ALA:HA	12	0.13
(1,4567)	2:5:B:G:H5'	1:197:A:ARG:HD3	5	0.13
(1,4523)	2:8:B:U:H1'	1:263:A:LYS:H	5	0.13
(1,4523)	2:8:B:U:H1'	1:263:A:LYS:H	18	0.13
(1,4521)	2:8:B:U:H5	1:259:A:ASN:H	3	0.13
(1,4521)	2:8:B:U:H5	1:259:A:ASN:H	4	0.13
(1,4521)	2:8:B:U:H5	1:259:A:ASN:H	6	0.13
(1,4521)	2:8:B:U:H5	1:259:A:ASN:H	9	0.13
(1,4521)	2:8:B:U:H5	1:259:A:ASN:H	20	0.13
(1,4520)	2:8:B:U:H4'	1:230:A:ALA:H	16	0.13
(1,4520)	2:8:B:U:H4'	1:230:A:ALA:H	19	0.13
(1,3991)	1:177:A:LEU:HD11	1:182:A:GLN:HE22	20	0.13
(1,3991)	1:177:A:LEU:HD11	1:182:A:GLN:HE21	20	0.13
(1,3991)	1:177:A:LEU:HD12	1:182:A:GLN:HE22	20	0.13
(1,3991)	1:177:A:LEU:HD12	1:182:A:GLN:HE21	20	0.13
(1,3991)	1:177:A:LEU:HD13	1:182:A:GLN:HE22	20	0.13
(1,3991)	1:177:A:LEU:HD13	1:182:A:GLN:HE21	20	0.13
(1,3991)	1:177:A:LEU:HD21	1:182:A:GLN:HE22	20	0.13
(1,3991)	1:177:A:LEU:HD21	1:182:A:GLN:HE21	20	0.13
(1,3991)	1:177:A:LEU:HD22	1:182:A:GLN:HE22	20	0.13
(1,3991)	1:177:A:LEU:HD22	1:182:A:GLN:HE21	20	0.13
(1,3991)	1:177:A:LEU:HD23	1:182:A:GLN:HE22	20	0.13
(1,3991)	1:177:A:LEU:HD23	1:182:A:GLN:HE21	20	0.13
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG12	11	0.13
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG13	11	0.13
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG21	11	0.13
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG22	11	0.13
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG23	11	0.13
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG11	11	0.13
(1,3501)	1:107:A:ILE:H	1:107:A:ILE:HG12	3	0.13
(1,3501)	1:107:A:ILE:H	1:107:A:ILE:HG13	3	0.13
(1,2827)	1:116:A:THR:HG21	1:119:A:ASP:H	18	0.13
(1,2827)	1:116:A:THR:HG22	1:119:A:ASP:H	18	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2827)	1:116:A:THR:HG23	1:119:A:ASP:H	18	0.13
(1,2240)	1:209:A:GLU:HB3	1:210:A:PHE:H	7	0.13
(1,2240)	1:209:A:GLU:HB3	1:210:A:PHE:H	19	0.13
(1,2144)	1:154:A:GLU:HB2	1:155:A:TYR:HA	1	0.13
(1,2144)	1:154:A:GLU:HB2	1:155:A:TYR:HA	2	0.13
(1,2144)	1:154:A:GLU:HB2	1:155:A:TYR:HA	4	0.13
(1,2144)	1:154:A:GLU:HB2	1:155:A:TYR:HA	5	0.13
(1,2144)	1:154:A:GLU:HB2	1:155:A:TYR:HA	6	0.13
(1,2144)	1:154:A:GLU:HB2	1:155:A:TYR:HA	9	0.13
(1,2144)	1:154:A:GLU:HB2	1:155:A:TYR:HA	10	0.13
(1,2144)	1:154:A:GLU:HB2	1:155:A:TYR:HA	11	0.13
(1,2144)	1:154:A:GLU:HB2	1:155:A:TYR:HA	13	0.13
(1,2144)	1:154:A:GLU:HB2	1:155:A:TYR:HA	14	0.13
(1,2144)	1:154:A:GLU:HB2	1:155:A:TYR:HA	15	0.13
(1,2144)	1:154:A:GLU:HB2	1:155:A:TYR:HA	19	0.13
(1,1679)	1:206:A:GLU:HB3	1:207:A:LEU:HB3	7	0.13
(1,1381)	1:108:A:VAL:HB	1:147:A:PHE:H	5	0.13
(1,1369)	1:182:A:GLN:HB2	1:182:A:GLN:HE22	10	0.13
(1,989)	1:205:A:ASP:H	1:208:A:ARG:HD2	10	0.13
(1,791)	1:202:A:MET:H	1:253:A:ILE:HG13	9	0.13
(1,749)	1:117:A:GLU:H	1:119:A:ASP:H	11	0.13
(1,749)	1:117:A:GLU:H	1:119:A:ASP:H	12	0.13
(1,749)	1:117:A:GLU:H	1:119:A:ASP:H	17	0.13
(1,725)	1:207:A:LEU:HB2	1:209:A:GLU:H	3	0.13
(1,649)	1:239:A:ILE:HA	1:243:A:LEU:H	6	0.13
(1,546)	1:182:A:GLN:H	1:182:A:GLN:HB2	20	0.13
(1,280)	1:137:A:LYS:HA	1:145:A:LYS:H	17	0.13
(1,218)	1:117:A:GLU:HG2	1:135:A:VAL:H	5	0.13
(3,44)	1:197:A:ARG:H	1:228:A:ALA:O	17	0.12
(3,22)	1:176:A:LYS:H	1:107:A:ILE:O	1	0.12
(1,4990)	2:11:B:A:H3'	2:12:B:U:H6	10	0.12
(1,4990)	2:11:B:A:H3'	2:12:B:U:H6	13	0.12
(1,4990)	2:11:B:A:H3'	2:12:B:U:H6	16	0.12
(1,4990)	2:11:B:A:H3'	2:12:B:U:H6	17	0.12
(1,4973)	2:11:B:A:H4'	2:11:B:A:H1'	1	0.12
(1,4973)	2:11:B:A:H4'	2:11:B:A:H1'	9	0.12
(1,4973)	2:11:B:A:H4'	2:11:B:A:H1'	13	0.12
(1,4973)	2:11:B:A:H4'	2:11:B:A:H1'	14	0.12
(1,4952)	2:10:B:A:H5'	2:10:B:A:H4'	7	0.12
(1,4919)	2:8:B:U:H5	2:8:B:U:H3'	8	0.12
(1,4899)	2:6:B:A:H8	2:7:B:A:H8	13	0.12
(1,4877)	2:5:B:G:H8	2:5:B:G:H3'	1	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4861)	2:4:B:U:H4'	2:5:B:G:H8	12	0.12
(1,4827)	2:3:B:G:H1'	2:4:B:U:H5	9	0.12
(1,4808)	2:2:B:U:H4'	2:4:B:U:H5	16	0.12
(1,4785)	2:2:B:U:H4'	2:2:B:U:H3'	3	0.12
(1,4785)	2:2:B:U:H4'	2:2:B:U:H3'	16	0.12
(1,4740)	1:166:A:HIS:HE1	1:161:A:VAL:H	2	0.12
(1,4740)	1:166:A:HIS:HE1	1:161:A:VAL:H	8	0.12
(1,4740)	1:166:A:HIS:HE1	1:161:A:VAL:H	13	0.12
(1,4740)	1:166:A:HIS:HE1	1:161:A:VAL:H	17	0.12
(1,4738)	1:166:A:HIS:HD2	1:161:A:VAL:HB	10	0.12
(1,4738)	1:166:A:HIS:HD2	1:161:A:VAL:HB	12	0.12
(1,4738)	1:166:A:HIS:HD2	1:161:A:VAL:HB	15	0.12
(1,4738)	1:166:A:HIS:HD2	1:161:A:VAL:HB	19	0.12
(1,4699)	2:4:B:U:H3	1:178:A:PRO:HA	11	0.12
(1,4673)	2:9:B:G:H4'	1:231:A:PHE:HZ	1	0.12
(1,4567)	2:5:B:G:H5'	1:197:A:ARG:HD3	17	0.12
(1,4567)	2:5:B:G:H5'	1:197:A:ARG:HD3	20	0.12
(1,4523)	2:8:B:U:H1'	1:263:A:LYS:H	9	0.12
(1,4523)	2:8:B:U:H1'	1:263:A:LYS:H	11	0.12
(1,4521)	2:8:B:U:H5	1:259:A:ASN:H	17	0.12
(1,4520)	2:8:B:U:H4'	1:230:A:ALA:H	11	0.12
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG12	8	0.12
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG13	8	0.12
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG21	8	0.12
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG22	8	0.12
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG23	8	0.12
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG11	8	0.12
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG12	9	0.12
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG13	9	0.12
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG21	9	0.12
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG22	9	0.12
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG23	9	0.12
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG11	9	0.12
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG12	17	0.12
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG13	17	0.12
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG21	17	0.12
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG22	17	0.12
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG23	17	0.12
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG11	17	0.12
(1,3501)	1:107:A:ILE:H	1:107:A:ILE:HG12	19	0.12
(1,3501)	1:107:A:ILE:H	1:107:A:ILE:HG13	19	0.12
(1,2758)	1:109:A:LEU:H	1:109:A:LEU:HD21	2	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2758)	1:109:A:LEU:H	1:109:A:LEU:HD22	2	0.12
(1,2758)	1:109:A:LEU:H	1:109:A:LEU:HD23	2	0.12
(1,2641)	1:174:A:ASP:HB2	1:176:A:LYS:HG3	16	0.12
(1,2636)	1:224:A:LYS:HG3	1:225:A:PRO:HA	8	0.12
(1,2461)	1:241:A:GLN:HA	1:244:A:CYS:HB3	17	0.12
(1,2240)	1:209:A:GLU:HB3	1:210:A:PHE:H	16	0.12
(1,2240)	1:209:A:GLU:HB3	1:210:A:PHE:H	18	0.12
(1,2144)	1:154:A:GLU:HB2	1:155:A:TYR:HA	3	0.12
(1,2144)	1:154:A:GLU:HB2	1:155:A:TYR:HA	12	0.12
(1,2144)	1:154:A:GLU:HB2	1:155:A:TYR:HA	18	0.12
(1,2144)	1:154:A:GLU:HB2	1:155:A:TYR:HA	20	0.12
(1,2111)	1:262:A:PRO:HB2	1:263:A:LYS:HA	14	0.12
(1,2041)	1:208:A:ARG:HD2	1:217:A:VAL:HB	9	0.12
(1,1679)	1:206:A:GLU:HB3	1:207:A:LEU:HB3	1	0.12
(1,1679)	1:206:A:GLU:HB3	1:207:A:LEU:HB3	9	0.12
(1,1679)	1:206:A:GLU:HB3	1:207:A:LEU:HB3	17	0.12
(1,1652)	1:157:A:THR:HA	1:160:A:LYS:HE2	13	0.12
(1,1652)	1:157:A:THR:HA	1:160:A:LYS:HE3	13	0.12
(1,1383)	1:164:A:GLN:HE22	1:165:A:ARG:H	15	0.12
(1,1240)	1:104:A:SER:H	1:155:A:TYR:HA	17	0.12
(1,989)	1:205:A:ASP:H	1:208:A:ARG:HD2	11	0.12
(1,983)	1:265:A:ASN:HA	1:266:A:SER:H	8	0.12
(1,749)	1:117:A:GLU:H	1:119:A:ASP:H	8	0.12
(1,749)	1:117:A:GLU:H	1:119:A:ASP:H	13	0.12
(1,749)	1:117:A:GLU:H	1:119:A:ASP:H	19	0.12
(1,649)	1:239:A:ILE:HA	1:243:A:LEU:H	10	0.12
(1,506)	1:208:A:ARG:H	1:219:A:ASP:HA	1	0.12
(1,506)	1:208:A:ARG:H	1:219:A:ASP:HA	6	0.12
(1,506)	1:208:A:ARG:H	1:219:A:ASP:HA	10	0.12
(1,506)	1:208:A:ARG:H	1:219:A:ASP:HA	12	0.12
(1,506)	1:208:A:ARG:H	1:219:A:ASP:HA	14	0.12
(1,506)	1:208:A:ARG:H	1:219:A:ASP:HA	16	0.12
(1,496)	1:158:A:GLN:H	1:158:A:GLN:HG2	7	0.12
(1,472)	1:257:A:ILE:HB	1:258:A:SER:H	18	0.12
(1,392)	1:221:A:PHE:H	1:233:A:THR:H	8	0.12
(1,392)	1:221:A:PHE:H	1:233:A:THR:H	13	0.12
(1,392)	1:221:A:PHE:H	1:233:A:THR:H	19	0.12
(1,357)	1:102:A:LYS:H	1:102:A:LYS:HD3	17	0.12
(1,357)	1:102:A:LYS:H	1:102:A:LYS:HD2	17	0.12
(1,256)	1:99:A:MET:HA	1:100:A:ALA:H	6	0.12
(1,222)	1:135:A:VAL:H	1:136:A:LYS:H	18	0.12
(1,218)	1:117:A:GLU:HG2	1:135:A:VAL:H	7	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,218)	1:117:A:GLU:HG2	1:135:A:VAL:H	14	0.12
(3,105)	2:5:B:G:O6	1:105:A:ASP:H	2	0.11
(3,105)	2:5:B:G:O6	1:105:A:ASP:H	19	0.11
(3,44)	1:197:A:ARG:H	1:228:A:ALA:O	2	0.11
(3,44)	1:197:A:ARG:H	1:228:A:ALA:O	16	0.11
(3,33)	1:147:A:PHE:H	1:136:A:LYS:O	3	0.11
(3,33)	1:147:A:PHE:H	1:136:A:LYS:O	4	0.11
(3,33)	1:147:A:PHE:H	1:136:A:LYS:O	13	0.11
(3,33)	1:147:A:PHE:H	1:136:A:LYS:O	19	0.11
(3,33)	1:147:A:PHE:H	1:136:A:LYS:O	20	0.11
(3,22)	1:176:A:LYS:H	1:107:A:ILE:O	13	0.11
(1,4990)	2:11:B:A:H3'	2:12:B:U:H6	5	0.11
(1,4968)	2:10:B:A:H8	2:11:B:A:H5''	15	0.11
(1,4960)	2:10:B:A:H2'	2:11:B:A:H1'	15	0.11
(1,4952)	2:10:B:A:H5'	2:10:B:A:H4'	11	0.11
(1,4941)	2:9:B:G:H1'	2:10:B:A:H1'	17	0.11
(1,4899)	2:6:B:A:H8	2:7:B:A:H8	6	0.11
(1,4899)	2:6:B:A:H8	2:7:B:A:H8	7	0.11
(1,4878)	2:5:B:G:H8	2:5:B:G:H4'	12	0.11
(1,4826)	2:3:B:G:H8	2:3:B:G:H5''	8	0.11
(1,4826)	2:3:B:G:H8	2:3:B:G:H5''	18	0.11
(1,4826)	2:3:B:G:H8	2:3:B:G:H5''	19	0.11
(1,4785)	2:2:B:U:H4'	2:2:B:U:H3'	6	0.11
(1,4785)	2:2:B:U:H4'	2:2:B:U:H3'	11	0.11
(1,4785)	2:2:B:U:H4'	2:2:B:U:H3'	13	0.11
(1,4785)	2:2:B:U:H4'	2:2:B:U:H3'	18	0.11
(1,4740)	1:166:A:HIS:HE1	1:161:A:VAL:H	5	0.11
(1,4740)	1:166:A:HIS:HE1	1:161:A:VAL:H	16	0.11
(1,4738)	1:166:A:HIS:HD2	1:161:A:VAL:HB	1	0.11
(1,4738)	1:166:A:HIS:HD2	1:161:A:VAL:HB	3	0.11
(1,4738)	1:166:A:HIS:HD2	1:161:A:VAL:HB	14	0.11
(1,4699)	2:4:B:U:H3	1:178:A:PRO:HA	3	0.11
(1,4699)	2:4:B:U:H3	1:178:A:PRO:HA	6	0.11
(1,4699)	2:4:B:U:H3	1:178:A:PRO:HA	13	0.11
(1,4699)	2:4:B:U:H3	1:178:A:PRO:HA	16	0.11
(1,4699)	2:4:B:U:H3	1:178:A:PRO:HA	19	0.11
(1,4673)	2:9:B:G:H4'	1:231:A:PHE:HZ	9	0.11
(1,4673)	2:9:B:G:H4'	1:231:A:PHE:HZ	12	0.11
(1,4567)	2:5:B:G:H5'	1:197:A:ARG:HD3	3	0.11
(1,4567)	2:5:B:G:H5'	1:197:A:ARG:HD3	4	0.11
(1,4567)	2:5:B:G:H5'	1:197:A:ARG:HD3	7	0.11
(1,4567)	2:5:B:G:H5'	1:197:A:ARG:HD3	19	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4546)	2:4:B:U:H2'	1:179:A:ASN:HB3	18	0.11
(1,4523)	2:8:B:U:H1'	1:263:A:LYS:H	8	0.11
(1,4521)	2:8:B:U:H5	1:259:A:ASN:H	10	0.11
(1,4521)	2:8:B:U:H5	1:259:A:ASN:H	15	0.11
(1,4521)	2:8:B:U:H5	1:259:A:ASN:H	19	0.11
(1,4520)	2:8:B:U:H4'	1:230:A:ALA:H	3	0.11
(1,4520)	2:8:B:U:H4'	1:230:A:ALA:H	8	0.11
(1,4520)	2:8:B:U:H4'	1:230:A:ALA:H	14	0.11
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG12	2	0.11
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG13	2	0.11
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG21	2	0.11
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG22	2	0.11
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG23	2	0.11
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG11	2	0.11
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG12	5	0.11
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG13	5	0.11
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG21	5	0.11
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG22	5	0.11
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG23	5	0.11
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG11	5	0.11
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG12	7	0.11
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG13	7	0.11
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG21	7	0.11
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG22	7	0.11
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG23	7	0.11
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG11	7	0.11
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG12	13	0.11
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG13	13	0.11
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG21	13	0.11
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG22	13	0.11
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG23	13	0.11
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG11	13	0.11
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG12	16	0.11
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG13	16	0.11
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG21	16	0.11
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG22	16	0.11
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG23	16	0.11
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG11	16	0.11
(1,3501)	1:107:A:ILE:H	1:107:A:ILE:HG12	12	0.11
(1,3501)	1:107:A:ILE:H	1:107:A:ILE:HG13	12	0.11
(1,3501)	1:107:A:ILE:H	1:107:A:ILE:HG12	15	0.11
(1,3501)	1:107:A:ILE:H	1:107:A:ILE:HG13	15	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2686)	1:177:A:LEU:HD21	1:182:A:GLN:HE21	20	0.11
(1,2686)	1:177:A:LEU:HD22	1:182:A:GLN:HE21	20	0.11
(1,2686)	1:177:A:LEU:HD23	1:182:A:GLN:HE21	20	0.11
(1,2461)	1:241:A:GLN:HA	1:244:A:CYS:HB3	9	0.11
(1,2461)	1:241:A:GLN:HA	1:244:A:CYS:HB3	14	0.11
(1,2240)	1:209:A:GLU:HB3	1:210:A:PHE:H	8	0.11
(1,2240)	1:209:A:GLU:HB3	1:210:A:PHE:H	11	0.11
(1,2240)	1:209:A:GLU:HB3	1:210:A:PHE:H	17	0.11
(1,2161)	1:127:A:PHE:HZ	1:161:A:VAL:HB	5	0.11
(1,2161)	1:127:A:PHE:HZ	1:161:A:VAL:HB	6	0.11
(1,2161)	1:127:A:PHE:HZ	1:161:A:VAL:HB	8	0.11
(1,2161)	1:127:A:PHE:HZ	1:161:A:VAL:HB	11	0.11
(1,2161)	1:127:A:PHE:HZ	1:161:A:VAL:HB	18	0.11
(1,2125)	1:99:A:MET:H	1:99:A:MET:HG3	5	0.11
(1,2065)	1:140:A:LYS:H	1:140:A:LYS:HB3	1	0.11
(1,1734)	1:168:A:ILE:HA	1:169:A:ASP:HB2	16	0.11
(1,1679)	1:206:A:GLU:HB3	1:207:A:LEU:HB3	11	0.11
(1,1679)	1:206:A:GLU:HB3	1:207:A:LEU:HB3	18	0.11
(1,1652)	1:157:A:THR:HA	1:160:A:LYS:HE2	15	0.11
(1,1652)	1:157:A:THR:HA	1:160:A:LYS:HE3	15	0.11
(1,1383)	1:164:A:GLN:HE22	1:165:A:ARG:H	1	0.11
(1,1383)	1:164:A:GLN:HE22	1:165:A:ARG:H	14	0.11
(1,1314)	1:103:A:THR:H	1:182:A:GLN:H	15	0.11
(1,1073)	1:243:A:LEU:HB3	1:244:A:CYS:H	6	0.11
(1,1073)	1:243:A:LEU:HB3	1:244:A:CYS:H	18	0.11
(1,767)	1:158:A:GLN:HA	1:161:A:VAL:H	15	0.11
(1,749)	1:117:A:GLU:H	1:119:A:ASP:H	4	0.11
(1,725)	1:207:A:LEU:HB2	1:209:A:GLU:H	1	0.11
(1,725)	1:207:A:LEU:HB2	1:209:A:GLU:H	15	0.11
(1,649)	1:239:A:ILE:HA	1:243:A:LEU:H	18	0.11
(1,609)	1:205:A:ASP:HB2	1:206:A:GLU:H	20	0.11
(1,506)	1:208:A:ARG:H	1:219:A:ASP:HA	4	0.11
(1,506)	1:208:A:ARG:H	1:219:A:ASP:HA	5	0.11
(1,506)	1:208:A:ARG:H	1:219:A:ASP:HA	8	0.11
(1,506)	1:208:A:ARG:H	1:219:A:ASP:HA	18	0.11
(1,496)	1:158:A:GLN:H	1:158:A:GLN:HG2	6	0.11
(1,496)	1:158:A:GLN:H	1:158:A:GLN:HG2	8	0.11
(1,496)	1:158:A:GLN:H	1:158:A:GLN:HG2	9	0.11
(1,496)	1:158:A:GLN:H	1:158:A:GLN:HG2	11	0.11
(1,496)	1:158:A:GLN:H	1:158:A:GLN:HG2	13	0.11
(1,496)	1:158:A:GLN:H	1:158:A:GLN:HG2	18	0.11
(1,485)	1:262:A:PRO:HB2	1:263:A:LYS:H	20	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,420)	1:107:A:ILE:H	1:107:A:ILE:HG12	3	0.11
(1,392)	1:221:A:PHE:H	1:233:A:THR:H	1	0.11
(1,392)	1:221:A:PHE:H	1:233:A:THR:H	3	0.11
(1,392)	1:221:A:PHE:H	1:233:A:THR:H	5	0.11
(1,392)	1:221:A:PHE:H	1:233:A:THR:H	12	0.11
(1,392)	1:221:A:PHE:H	1:233:A:THR:H	15	0.11
(1,289)	1:248:A:LEU:H	1:257:A:ILE:H	11	0.11
(1,218)	1:117:A:GLU:HG2	1:135:A:VAL:H	6	0.11
(1,218)	1:117:A:GLU:HG2	1:135:A:VAL:H	9	0.11
(1,218)	1:117:A:GLU:HG2	1:135:A:VAL:H	11	0.11
(1,218)	1:117:A:GLU:HG2	1:135:A:VAL:H	13	0.11
(1,218)	1:117:A:GLU:HG2	1:135:A:VAL:H	16	0.11
(1,218)	1:117:A:GLU:HG2	1:135:A:VAL:H	18	0.11
(1,218)	1:117:A:GLU:HG2	1:135:A:VAL:H	19	0.11
(1,67)	1:253:A:ILE:HA	1:255:A:VAL:H	14	0.11
(1,54)	1:168:A:ILE:H	1:172:A:TRP:HE3	4	0.11
(1,48)	1:193:A:VAL:H	1:234:A:PHE:H	1	0.11
(1,48)	1:193:A:VAL:H	1:234:A:PHE:H	11	0.11
(3,105)	2:5:B:G:O6	1:105:A:ASP:H	3	0.1
(3,105)	2:5:B:G:O6	1:105:A:ASP:H	9	0.1
(3,105)	2:5:B:G:O6	1:105:A:ASP:H	15	0.1
(3,105)	2:5:B:G:O6	1:105:A:ASP:H	17	0.1
(3,105)	2:5:B:G:O6	1:105:A:ASP:H	18	0.1
(3,49)	1:248:A:LEU:H	1:255:A:VAL:O	16	0.1
(3,33)	1:147:A:PHE:H	1:136:A:LYS:O	7	0.1
(3,29)	1:151:A:ARG:O	1:132:A:MET:H	6	0.1
(1,4979)	2:11:B:A:H8	2:11:B:A:H2'	18	0.1
(1,4973)	2:11:B:A:H4'	2:11:B:A:H1'	8	0.1
(1,4966)	2:10:B:A:H4'	2:11:B:A:H8	18	0.1
(1,4952)	2:10:B:A:H5'	2:10:B:A:H4'	10	0.1
(1,4919)	2:8:B:U:H5	2:8:B:U:H3'	1	0.1
(1,4919)	2:8:B:U:H5	2:8:B:U:H3'	2	0.1
(1,4919)	2:8:B:U:H5	2:8:B:U:H3'	10	0.1
(1,4919)	2:8:B:U:H5	2:8:B:U:H3'	15	0.1
(1,4877)	2:5:B:G:H8	2:5:B:G:H3'	2	0.1
(1,4827)	2:3:B:G:H1'	2:4:B:U:H5	2	0.1
(1,4826)	2:3:B:G:H8	2:3:B:G:H5''	12	0.1
(1,4826)	2:3:B:G:H8	2:3:B:G:H5''	14	0.1
(1,4785)	2:2:B:U:H4'	2:2:B:U:H3'	8	0.1
(1,4785)	2:2:B:U:H4'	2:2:B:U:H3'	9	0.1
(1,4785)	2:2:B:U:H4'	2:2:B:U:H3'	12	0.1
(1,4740)	1:166:A:HIS:HE1	1:161:A:VAL:H	4	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4740)	1:166:A:HIS:HE1	1:161:A:VAL:H	6	0.1
(1,4740)	1:166:A:HIS:HE1	1:161:A:VAL:H	18	0.1
(1,4740)	1:166:A:HIS:HE1	1:161:A:VAL:H	19	0.1
(1,4699)	2:4:B:U:H3	1:178:A:PRO:HA	5	0.1
(1,4699)	2:4:B:U:H3	1:178:A:PRO:HA	8	0.1
(1,4520)	2:8:B:U:H4'	1:230:A:ALA:H	12	0.1
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG12	6	0.1
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG13	6	0.1
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG21	6	0.1
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG22	6	0.1
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG23	6	0.1
(1,3928)	1:161:A:VAL:H	1:161:A:VAL:HG11	6	0.1
(1,2641)	1:174:A:ASP:HB2	1:176:A:LYS:HG3	5	0.1
(1,2641)	1:174:A:ASP:HB2	1:176:A:LYS:HG3	6	0.1
(1,2641)	1:174:A:ASP:HB2	1:176:A:LYS:HG3	9	0.1
(1,2461)	1:241:A:GLN:HA	1:244:A:CYS:HB3	8	0.1
(1,2461)	1:241:A:GLN:HA	1:244:A:CYS:HB3	11	0.1
(1,2461)	1:241:A:GLN:HA	1:244:A:CYS:HB3	15	0.1
(1,2461)	1:241:A:GLN:HA	1:244:A:CYS:HB3	16	0.1
(1,2250)	1:122:A:GLU:HB3	1:123:A:TYR:H	7	0.1
(1,2240)	1:209:A:GLU:HB3	1:210:A:PHE:H	6	0.1
(1,2240)	1:209:A:GLU:HB3	1:210:A:PHE:H	10	0.1
(1,2240)	1:209:A:GLU:HB3	1:210:A:PHE:H	12	0.1
(1,2161)	1:127:A:PHE:HZ	1:161:A:VAL:HB	2	0.1
(1,2161)	1:127:A:PHE:HZ	1:161:A:VAL:HB	7	0.1
(1,2161)	1:127:A:PHE:HZ	1:161:A:VAL:HB	9	0.1
(1,2028)	1:102:A:LYS:HB3	1:182:A:GLN:HA	20	0.1
(1,1895)	1:209:A:GLU:H	1:209:A:GLU:HG3	9	0.1
(1,1865)	1:121:A:LYS:HG2	1:122:A:GLU:HG3	15	0.1
(1,1734)	1:168:A:ILE:HA	1:169:A:ASP:HB2	20	0.1
(1,1679)	1:206:A:GLU:HB3	1:207:A:LEU:HB3	2	0.1
(1,1679)	1:206:A:GLU:HB3	1:207:A:LEU:HB3	3	0.1
(1,1679)	1:206:A:GLU:HB3	1:207:A:LEU:HB3	5	0.1
(1,1679)	1:206:A:GLU:HB3	1:207:A:LEU:HB3	16	0.1
(1,1652)	1:157:A:THR:HA	1:160:A:LYS:HE2	6	0.1
(1,1652)	1:157:A:THR:HA	1:160:A:LYS:HE3	6	0.1
(1,1652)	1:157:A:THR:HA	1:160:A:LYS:HE2	11	0.1
(1,1652)	1:157:A:THR:HA	1:160:A:LYS:HE3	11	0.1
(1,1383)	1:164:A:GLN:HE22	1:165:A:ARG:H	5	0.1
(1,1383)	1:164:A:GLN:HE22	1:165:A:ARG:H	20	0.1
(1,1314)	1:103:A:THR:H	1:182:A:GLN:H	9	0.1
(1,1240)	1:104:A:SER:H	1:155:A:TYR:HA	16	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1113)	1:162:A:MET:H	1:164:A:GLN:H	4	0.1
(1,1113)	1:162:A:MET:H	1:164:A:GLN:H	19	0.1
(1,1073)	1:243:A:LEU:HB3	1:244:A:CYS:H	12	0.1
(1,1029)	1:123:A:TYR:HB3	1:124:A:PHE:H	7	0.1
(1,959)	1:213:A:GLN:HE22	1:214:A:TYR:H	14	0.1
(1,806)	1:139:A:LEU:H	1:143:A:HIS:H	8	0.1
(1,773)	1:246:A:GLU:H	1:256:A:HIS:HA	19	0.1
(1,749)	1:117:A:GLU:H	1:119:A:ASP:H	20	0.1
(1,725)	1:207:A:LEU:HB2	1:209:A:GLU:H	14	0.1
(1,507)	1:208:A:ARG:H	1:208:A:ARG:HD2	7	0.1
(1,506)	1:208:A:ARG:H	1:219:A:ASP:HA	2	0.1
(1,506)	1:208:A:ARG:H	1:219:A:ASP:HA	3	0.1
(1,506)	1:208:A:ARG:H	1:219:A:ASP:HA	11	0.1
(1,496)	1:158:A:GLN:H	1:158:A:GLN:HG2	2	0.1
(1,395)	1:219:A:ASP:HB2	1:233:A:THR:H	14	0.1
(1,392)	1:221:A:PHE:H	1:233:A:THR:H	4	0.1
(1,392)	1:221:A:PHE:H	1:233:A:THR:H	11	0.1
(1,392)	1:221:A:PHE:H	1:233:A:THR:H	18	0.1
(1,218)	1:117:A:GLU:HG2	1:135:A:VAL:H	2	0.1
(1,218)	1:117:A:GLU:HG2	1:135:A:VAL:H	8	0.1
(1,54)	1:168:A:ILE:H	1:172:A:TRP:HE3	10	0.1
(1,48)	1:193:A:VAL:H	1:234:A:PHE:H	7	0.1
(1,46)	1:166:A:HIS:HB2	1:168:A:ILE:H	10	0.1

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

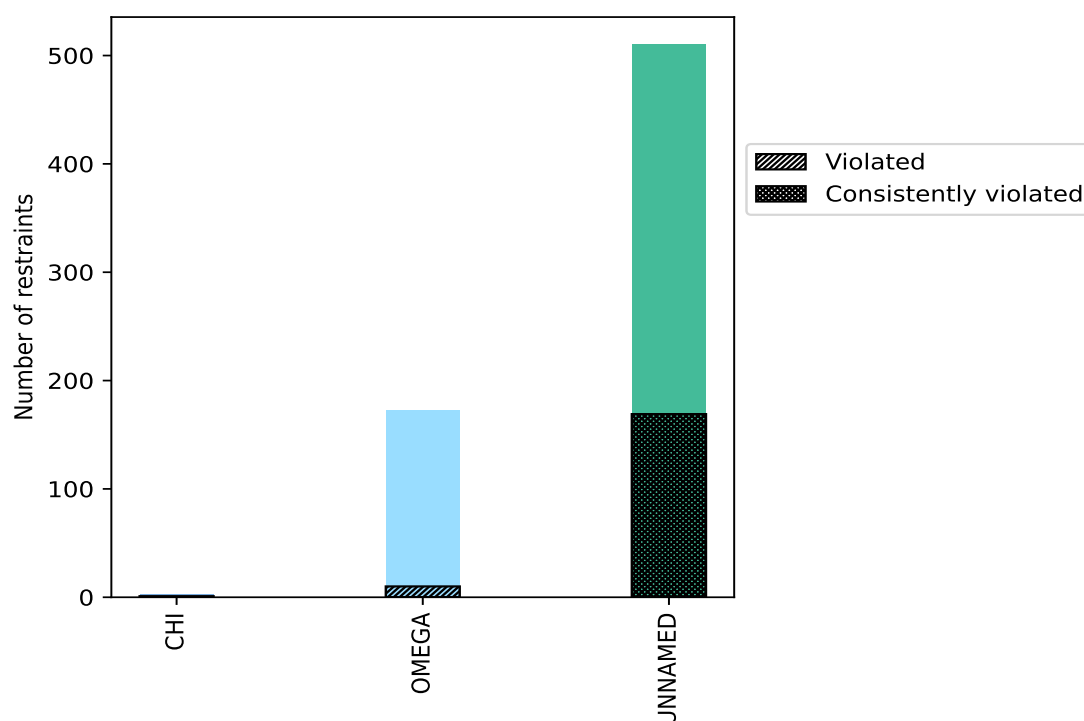
10.1 Summary of dihedral-angle violations [i](#)

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
CHI	3	0.4	1	33.3	0.1	0	0.0	0.0
OMEGA	173	25.2	10	5.8	1.5	0	0.0	0.0
UNNAMED	510	74.3	169	33.1	24.6	169	33.1	24.6
Total	686	100.0	180	26.2	26.2	169	24.6	24.6

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](#)



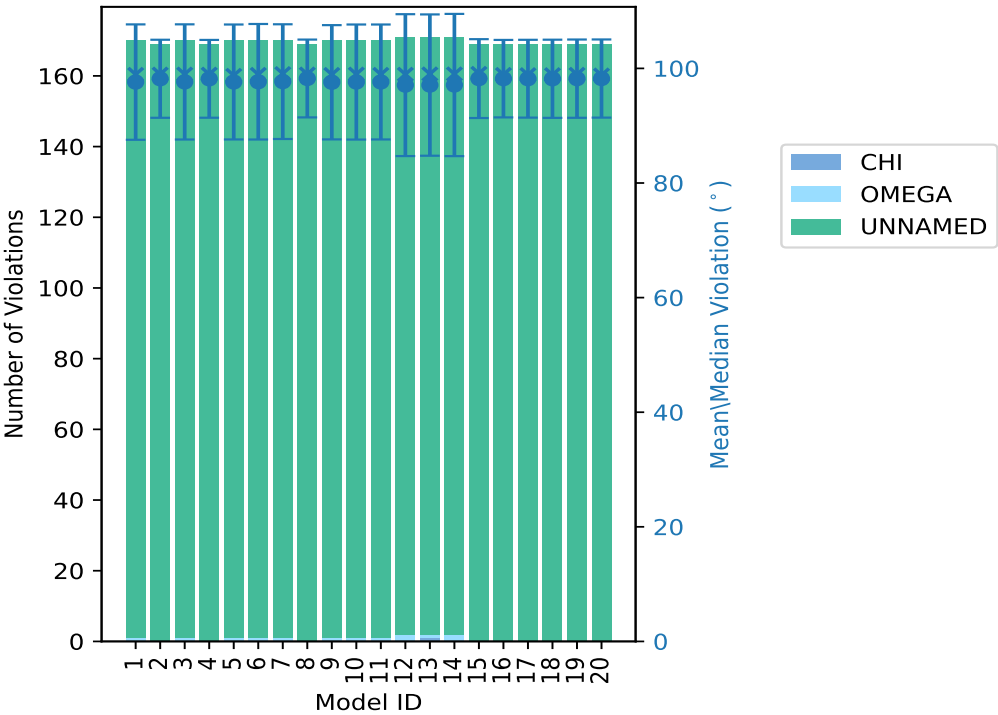
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

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 (°)
	CHI	OMEGA	UNNAMED	Total				
1	0	1	169	170	97.61	108.35	10.07	98.94
2	0	0	169	169	98.19	109.31	6.81	98.99
3	0	1	169	170	97.64	108.46	10.05	98.99
4	0	0	169	169	98.18	107.78	6.79	98.98
5	0	1	169	170	97.63	108.08	10.03	98.77
6	0	1	169	170	97.67	109.55	10.08	98.94
7	0	1	169	170	97.69	109.46	10.01	99.08
8	0	0	169	169	98.24	107.82	6.79	99.0
9	0	1	169	170	97.58	108.47	9.97	98.93
10	0	1	169	170	97.62	108.63	10.04	98.99
11	0	1	169	170	97.63	107.67	10.03	98.94
12	0	2	169	171	97.08	109.47	12.38	98.96
13	1	1	169	171	97.09	108.26	12.33	99.02
14	0	2	169	171	97.1	108.56	12.41	99.02
15	0	0	169	169	98.22	109.61	6.88	99.12
16	0	0	169	169	98.21	108.23	6.76	98.93
17	0	0	169	169	98.2	108.03	6.79	98.89
18	0	0	169	169	98.19	108.19	6.82	98.89
19	0	0	169	169	98.21	109.31	6.83	98.95
20	0	0	169	169	98.23	108.39	6.82	98.83

10.2.1 Bar graph : Dihedral violation statistics for each model ⓘ



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

10.3 Dihedral-angle violation statistics for the ensemble ⓘ

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

Number of violated restraints				Fraction of the ensemble	
CHI	OMEGA	UNNAMED	Total	Count ¹	%
1	7	0	8	1	5.0
0	3	0	3	2	10.0
0	0	0	0	3	15.0
0	0	0	0	4	20.0
0	0	0	0	5	25.0
0	0	0	0	6	30.0
0	0	0	0	7	35.0
0	0	0	0	8	40.0
0	0	0	0	9	45.0
0	0	0	0	10	50.0
0	0	0	0	11	55.0

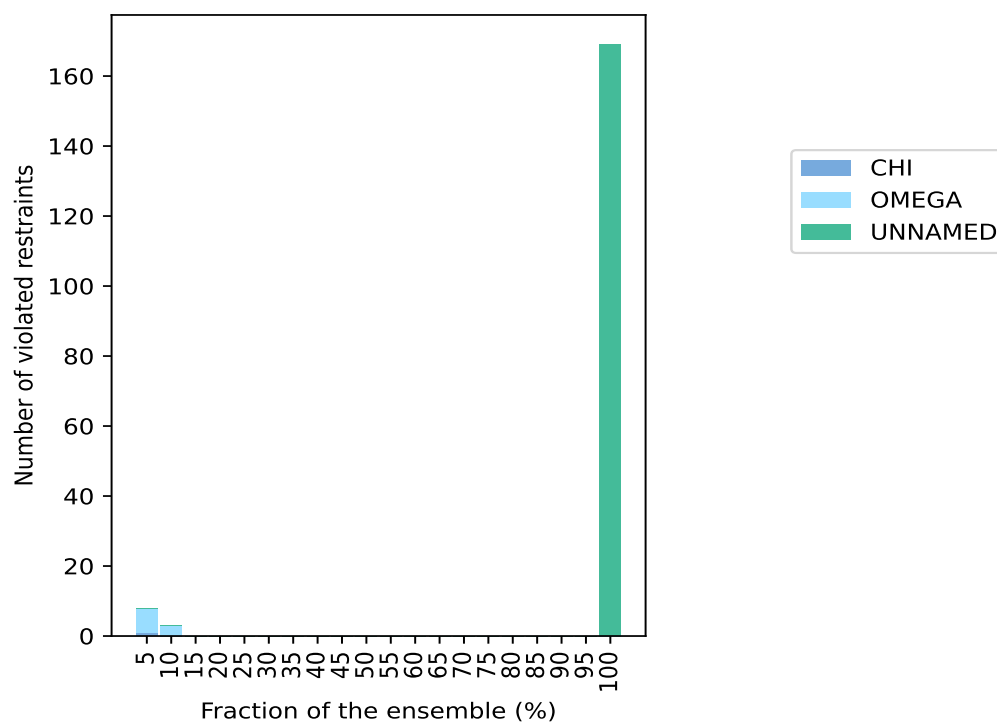
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Number of violated restraints				Fraction of the ensemble	
CHI	OMEGA	UNNAMED	Total	Count ¹	%
0	0	0	0	12	60.0
0	0	0	0	13	65.0
0	0	0	0	14	70.0
0	0	0	0	15	75.0
0	0	0	0	16	80.0
0	0	0	0	17	85.0
0	0	0	0	18	90.0
0	0	0	0	19	95.0
0	0	169	169	20	100.0

¹ Number of models with violations

10.3.1 Bar graph : Dihedral-angle Violation statistics for the ensemble ⓘ

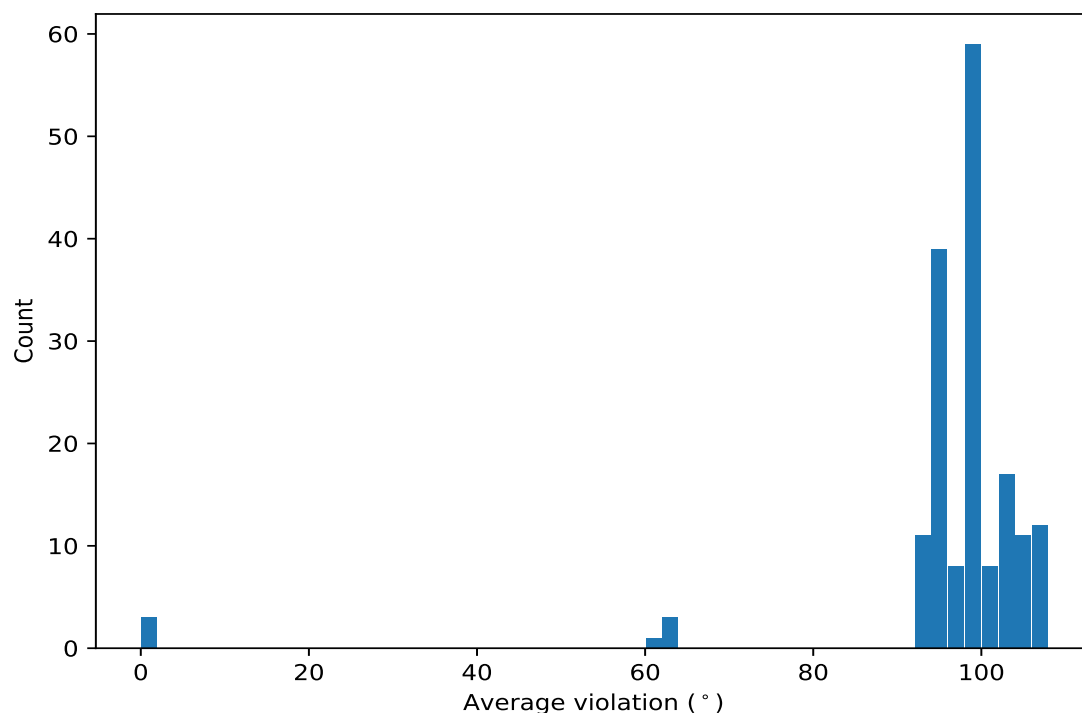


10.4 Most violated dihedral-angle restraints in the ensemble ⓘ

10.4.1 Histogram : Distribution of mean dihedral-angle violations ⓘ

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

in the ensemble



10.4.2 Table: Most violated dihedral-angle restraints ⓘ

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	Me
(1,506)	2:11:B:A:O3'	2:11:B:A:C2'	2:11:B:A:C4'	2:11:B:A:H3'	20	107.78	0.6	10
(1,471)	2:4:B:U:O3'	2:4:B:U:C2'	2:4:B:U:C4'	2:4:B:U:H3'	20	107.76	0.92	10
(1,511)	2:12:B:U:O3'	2:12:B:U:C2'	2:12:B:U:C4'	2:12:B:U:H3'	20	107.51	0.32	10
(1,476)	2:5:B:G:O3'	2:5:B:G:C2'	2:5:B:G:C4'	2:5:B:G:H3'	20	107.26	0.83	10
(1,486)	2:7:B:A:O3'	2:7:B:A:C2'	2:7:B:A:C4'	2:7:B:A:H3'	20	107.19	0.38	10
(1,496)	2:9:B:G:O3'	2:9:B:G:C2'	2:9:B:G:C4'	2:9:B:G:H3'	20	107.13	0.49	10
(1,481)	2:6:B:A:O3'	2:6:B:A:C2'	2:6:B:A:C4'	2:6:B:A:H3'	20	107.09	0.24	10
(1,456)	2:1:B:G:O3'	2:1:B:G:C2'	2:1:B:G:C4'	2:1:B:G:H3'	20	106.96	0.4	10
(1,501)	2:10:B:A:O3'	2:10:B:A:C2'	2:10:B:A:C4'	2:10:B:A:H3'	20	106.94	0.9	10
(1,461)	2:2:B:U:O3'	2:2:B:U:C2'	2:2:B:U:C4'	2:2:B:U:H3'	20	106.81	0.41	10
(1,491)	2:8:B:U:O3'	2:8:B:U:C2'	2:8:B:U:C4'	2:8:B:U:H3'	20	106.74	0.56	10
(1,466)	2:3:B:G:O3'	2:3:B:G:C2'	2:3:B:G:C4'	2:3:B:G:H3'	20	106.14	0.52	10
(1,419)	1:257:A:ILE:CA	1:257:A:ILE:CG2	1:257:A:ILE:CG1	1:257:A:ILE:HB	20	105.44	0.34	10
(1,410)	1:253:A:ILE:CA	1:253:A:ILE:CG2	1:253:A:ILE:CG1	1:253:A:ILE:HB	20	105.22	0.17	10
(1,415)	1:255:A:VAL:CA	1:255:A:VAL:CG1	1:255:A:VAL:CG2	1:255:A:VAL:HB	20	105.2	0.22	10
(1,361)	1:232:A:VAL:CA	1:232:A:VAL:CG1	1:232:A:VAL:CG2	1:232:A:VAL:HB	20	105.18	0.89	10
(1,375)	1:239:A:ILE:CA	1:239:A:ILE:CG2	1:239:A:ILE:CG1	1:239:A:ILE:HB	20	104.89	0.19	10
(1,398)	1:249:A:ILE:CA	1:249:A:ILE:CG2	1:249:A:ILE:CG1	1:249:A:ILE:HB	20	104.84	0.16	10
(1,396)	1:248:A:LEU:CB	1:248:A:LEU:CD1	1:248:A:LEU:CD2	1:248:A:LEU:HG	20	104.84	0.41	10
(1,462)	2:2:B:U:C3'	2:2:B:U:C5'	2:2:B:U:O4'	2:2:B:U:H4'	20	104.55	0.76	10

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Me
(1,467)	2:3:B:G:C3'	2:3:B:G:C5'	2:3:B:G:O4'	2:3:B:G:H4'	20	104.41	0.68	10
(1,401)	1:250:A:ILE:CA	1:250:A:ILE:CG2	1:250:A:ILE:CG1	1:250:A:ILE:HB	20	104.21	0.11	1
(1,385)	1:243:A:LEU:CB	1:243:A:LEU:CD1	1:243:A:LEU:CD2	1:243:A:LEU:HG	20	104.11	0.37	1
(1,363)	1:233:A:THR:CA	1:233:A:THR:CG2	1:233:A:THR:OG1	1:233:A:THR:HB	20	103.59	0.16	10
(1,469)	2:4:B:U:C2'	2:4:B:U:O4'	2:4:B:U:N1	2:4:B:U:H1'	20	103.54	0.31	10
(1,509)	2:12:B:U:C2'	2:12:B:U:O4'	2:12:B:U:N1	2:12:B:U:H1'	20	103.38	0.3	10
(1,484)	2:7:B:A:C2'	2:7:B:A:O4'	2:7:B:A:N9	2:7:B:A:H1'	20	103.25	0.58	10
(1,457)	2:1:B:G:C3'	2:1:B:G:C5'	2:1:B:G:O4'	2:1:B:G:H4'	20	103.19	0.2	10
(1,512)	2:12:B:U:C3'	2:12:B:U:C5'	2:12:B:U:O4'	2:12:B:U:H4'	20	103.1	0.27	10
(1,482)	2:6:B:A:C3'	2:6:B:A:C5'	2:6:B:A:O4'	2:6:B:A:H4'	20	102.9	0.92	10
(1,507)	2:11:B:A:C3'	2:11:B:A:C5'	2:11:B:A:O4'	2:11:B:A:H4'	20	102.8	0.46	10
(1,479)	2:6:B:A:C2'	2:6:B:A:O4'	2:6:B:A:N9	2:6:B:A:H1'	20	102.8	0.4	10
(1,459)	2:2:B:U:C2'	2:2:B:U:O4'	2:2:B:U:N1	2:2:B:U:H1'	20	102.77	0.6	10
(1,499)	2:10:B:A:C2'	2:10:B:A:O4'	2:10:B:A:N9	2:10:B:A:H1'	20	102.59	0.34	10
(1,504)	2:11:B:A:C2'	2:11:B:A:O4'	2:11:B:A:N9	2:11:B:A:H1'	20	102.39	0.63	10
(1,494)	2:9:B:G:C2'	2:9:B:G:O4'	2:9:B:G:N9	2:9:B:G:H1'	20	102.29	0.78	10
(1,502)	2:10:B:A:C3'	2:10:B:A:C5'	2:10:B:A:O4'	2:10:B:A:H4'	20	102.27	0.67	10
(1,472)	2:4:B:U:C3'	2:4:B:U:C5'	2:4:B:U:O4'	2:4:B:U:H4'	20	102.24	0.48	10
(1,487)	2:7:B:A:C3'	2:7:B:A:C5'	2:7:B:A:O4'	2:7:B:A:H4'	20	102.16	0.86	10
(1,489)	2:8:B:U:C2'	2:8:B:U:O4'	2:8:B:U:N1	2:8:B:U:H1'	20	102.13	0.32	10
(1,492)	2:8:B:U:C3'	2:8:B:U:C5'	2:8:B:U:O4'	2:8:B:U:H4'	20	101.98	0.64	1
(1,497)	2:9:B:G:C3'	2:9:B:G:C5'	2:9:B:G:O4'	2:9:B:G:H4'	20	101.96	0.56	10
(1,464)	2:3:B:G:C2'	2:3:B:G:O4'	2:3:B:G:N9	2:3:B:G:H1'	20	101.9	0.64	10
(1,477)	2:5:B:G:C3'	2:5:B:G:C5'	2:5:B:G:O4'	2:5:B:G:H4'	20	101.41	2.17	10
(1,474)	2:5:B:G:C2'	2:5:B:G:O4'	2:5:B:G:N9	2:5:B:G:H1'	20	101.38	1.13	10
(1,454)	2:1:B:G:C2'	2:1:B:G:O4'	2:1:B:G:N9	2:1:B:G:H1'	20	101.32	0.21	1
(1,389)	1:245:A:GLY:N	1:245:A:GLY:C	1:245:A:GLY:HA2	1:245:A:GLY:HA3	20	100.28	0.12	1
(1,434)	1:263:A:LYS:CA	1:263:A:LYS:CG	1:263:A:LYS:HB2	1:263:A:LYS:HB3	20	100.12	0.6	1
(1,384)	1:243:A:LEU:CA	1:243:A:LEU:CG	1:243:A:LEU:HB2	1:243:A:LEU:HB3	20	99.95	0.7	9
(1,387)	1:244:A:CYS:CA	1:244:A:CYS:SG	1:244:A:CYS:HB2	1:244:A:CYS:HB3	20	99.95	0.26	9
(1,420)	1:257:A:ILE:CB	1:257:A:ILE:CD1	1:257:A:ILE:HG12	1:257:A:ILE:HG13	20	99.84	0.2	9
(1,409)	1:252:A:GLY:N	1:252:A:GLY:C	1:252:A:GLY:HA2	1:252:A:GLY:HA3	20	99.83	0.14	9
(1,395)	1:248:A:LEU:CA	1:248:A:LEU:CG	1:248:A:LEU:HB2	1:248:A:LEU:HB3	20	99.76	0.42	9
(1,380)	1:241:A:GLN:CB	1:241:A:GLN:CD	1:241:A:GLN:HG2	1:241:A:GLN:HG3	20	99.75	0.16	9
(1,359)	1:231:A:PHE:CA	1:231:A:PHE:CG	1:231:A:PHE:HB2	1:231:A:PHE:HB3	20	99.73	0.16	9
(1,372)	1:238:A:GLN:CA	1:238:A:GLN:CG	1:238:A:GLN:HB2	1:238:A:GLN:HB3	20	99.55	0.09	9
(1,417)	1:256:A:HIS:CA	1:256:A:HIS:CG	1:256:A:HIS:HB2	1:256:A:HIS:HB3	20	99.55	0.25	9
(1,356)	1:229:A:PHE:CA	1:229:A:PHE:CG	1:229:A:PHE:HB2	1:229:A:PHE:HB3	20	99.51	0.21	9
(1,379)	1:241:A:GLN:CA	1:241:A:GLN:CG	1:241:A:GLN:HB2	1:241:A:GLN:HB3	20	99.5	0.22	9
(1,439)	1:264:A:HIS:CA	1:264:A:HIS:CG	1:264:A:HIS:HB2	1:264:A:HIS:HB3	20	99.5	0.16	9
(1,447)	1:268:A:ARG:CA	1:268:A:ARG:CG	1:268:A:ARG:HB2	1:268:A:ARG:HB3	20	99.44	0.28	9
(1,365)	1:234:A:PHE:CA	1:234:A:PHE:CG	1:234:A:PHE:HB2	1:234:A:PHE:HB3	20	99.44	0.17	9
(1,451)	1:269:A:GLN:CA	1:269:A:GLN:CG	1:269:A:GLN:HB2	1:269:A:GLN:HB3	20	99.43	0.27	9
(1,391)	1:246:A:GLU:CB	1:246:A:GLU:CD	1:246:A:GLU:HG2	1:246:A:GLU:HG3	20	99.41	0.15	9
(1,411)	1:253:A:ILE:CB	1:253:A:ILE:CD1	1:253:A:ILE:HG12	1:253:A:ILE:HG13	20	99.4	0.18	9
(1,427)	1:261:A:GLU:CA	1:261:A:GLU:CG	1:261:A:GLU:HB2	1:261:A:GLU:HB3	20	99.38	0.2	9
(1,452)	1:269:A:GLN:CB	1:269:A:GLN:CD	1:269:A:GLN:HG2	1:269:A:GLN:HG3	20	99.36	0.28	9
(1,405)	1:251:A:LYS:CB	1:251:A:LYS:CD	1:251:A:LYS:HG2	1:251:A:LYS:HG3	20	99.34	0.12	9
(1,424)	1:259:A:ASN:CA	1:259:A:ASN:CG	1:259:A:ASN:HB2	1:259:A:ASN:HB3	20	99.29	0.15	9
(1,437)	1:263:A:LYS:CG	1:263:A:LYS:CE	1:263:A:LYS:HD2	1:263:A:LYS:HD3	20	99.28	0.52	9
(1,445)	1:267:A:ASN:CA	1:267:A:ASN:CG	1:267:A:ASN:HB2	1:267:A:ASN:HB3	20	99.26	0.34	9

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Me
(1,370)	1:237:A:ASP:CA	1:237:A:ASP:CG	1:237:A:ASP:HB2	1:237:A:ASP:HB3	20	99.26	0.22	9
(1,428)	1:261:A:GLU:CB	1:261:A:GLU:CD	1:261:A:GLU:HG2	1:261:A:GLU:HG3	20	99.25	0.23	9
(1,441)	1:265:A:ASN:CA	1:265:A:ASN:CG	1:265:A:ASN:HB2	1:265:A:ASN:HB3	20	99.24	0.33	9
(1,349)	1:226:A:PHE:CA	1:226:A:PHE:CG	1:226:A:PHE:HB2	1:226:A:PHE:HB3	20	99.21	0.22	9
(1,468)	2:3:B:G:C4'	2:3:B:G:O5'	2:3:B:G:H5'	2:3:B:G:H5''	20	99.19	0.33	9
(1,368)	1:236:A:ASP:CA	1:236:A:ASP:CG	1:236:A:ASP:HB2	1:236:A:ASP:HB3	20	99.16	0.15	9
(1,404)	1:251:A:LYS:CA	1:251:A:LYS:CG	1:251:A:LYS:HB2	1:251:A:LYS:HB3	20	99.14	0.16	9
(1,448)	1:268:A:ARG:CB	1:268:A:ARG:CD	1:268:A:ARG:HG2	1:268:A:ARG:HG3	20	99.13	0.39	9
(1,407)	1:251:A:LYS:CG	1:251:A:LYS:CE	1:251:A:LYS:HD2	1:251:A:LYS:HD3	20	99.13	0.12	9
(1,353)	1:227:A:ARG:CG	1:227:A:ARG:NE	1:227:A:ARG:HD2	1:227:A:ARG:HD3	20	99.13	0.19	9
(1,402)	1:250:A:ILE:CB	1:250:A:ILE:CD1	1:250:A:ILE:HG12	1:250:A:ILE:HG13	20	99.12	0.14	9
(1,393)	1:247:A:ASP:CA	1:247:A:ASP:CG	1:247:A:ASP:HB2	1:247:A:ASP:HB3	20	99.08	0.31	9
(1,351)	1:227:A:ARG:CA	1:227:A:ARG:CG	1:227:A:ARG:HB2	1:227:A:ARG:HB3	20	98.94	0.29	9
(1,390)	1:246:A:GLU:CA	1:246:A:GLU:CG	1:246:A:GLU:HB2	1:246:A:GLU:HB3	20	98.92	0.14	9
(1,473)	2:4:B:U:C4'	2:4:B:U:O5'	2:4:B:U:H5'	2:4:B:U:H5''	20	98.9	0.19	9
(1,352)	1:227:A:ARG:CB	1:227:A:ARG:CD	1:227:A:ARG:HG2	1:227:A:ARG:HG3	20	98.88	0.54	9
(1,436)	1:263:A:LYS:CD	1:263:A:LYS:NZ	1:263:A:LYS:HE2	1:263:A:LYS:HE3	20	98.87	0.26	9
(1,399)	1:249:A:ILE:CB	1:249:A:ILE:CD1	1:249:A:ILE:HG12	1:249:A:ILE:HG13	20	98.85	0.26	9
(1,373)	1:238:A:GLN:CB	1:238:A:GLN:CD	1:238:A:GLN:HG2	1:238:A:GLN:HG3	20	98.81	0.12	9
(1,449)	1:268:A:ARG:CG	1:268:A:ARG:NE	1:268:A:ARG:HD2	1:268:A:ARG:HD3	20	98.8	0.3	9
(1,508)	2:11:B:A:C4'	2:11:B:A:O5'	2:11:B:A:H5'	2:11:B:A:H5''	20	98.66	0.44	9
(1,493)	2:8:B:U:C4'	2:8:B:U:O5'	2:8:B:U:H5'	2:8:B:U:H5''	20	98.65	0.54	9
(1,483)	2:6:B:A:C4'	2:6:B:A:O5'	2:6:B:A:H5'	2:6:B:A:H5''	20	98.63	0.9	9
(1,376)	1:239:A:ILE:CB	1:239:A:ILE:CD1	1:239:A:ILE:HG12	1:239:A:ILE:HG13	20	98.61	0.13	9
(1,406)	1:251:A:LYS:CD	1:251:A:LYS:NZ	1:251:A:LYS:HE2	1:251:A:LYS:HE3	20	98.54	0.12	9
(1,488)	2:7:B:A:C4'	2:7:B:A:O5'	2:7:B:A:H5'	2:7:B:A:H5''	20	98.52	0.69	9
(1,463)	2:2:B:U:C4'	2:2:B:U:O5'	2:2:B:U:H5'	2:2:B:U:H5''	20	98.5	0.21	9
(1,435)	1:263:A:LYS:CB	1:263:A:LYS:CD	1:263:A:LYS:HG2	1:263:A:LYS:HG3	20	98.5	0.51	9
(1,513)	2:12:B:U:C4'	2:12:B:U:O5'	2:12:B:U:H5'	2:12:B:U:H5''	20	98.49	0.22	9
(1,458)	2:1:B:G:C4'	2:1:B:G:O5'	2:1:B:G:H5'	2:1:B:G:H5''	20	98.31	0.11	9
(1,382)	1:242:A:SER:CA	1:242:A:SER:OG	1:242:A:SER:HB2	1:242:A:SER:HB3	20	98.28	0.22	9
(1,443)	1:266:A:SER:CA	1:266:A:SER:OG	1:266:A:SER:HB2	1:266:A:SER:HB3	20	98.23	0.22	9
(1,503)	2:10:B:A:C4'	2:10:B:A:O5'	2:10:B:A:H5'	2:10:B:A:H5''	20	98.13	0.5	9
(1,413)	1:254:A:SER:CA	1:254:A:SER:OG	1:254:A:SER:HB2	1:254:A:SER:HB3	20	98.12	0.3	9
(1,422)	1:258:A:SER:CA	1:258:A:SER:OG	1:258:A:SER:HB2	1:258:A:SER:HB3	20	98.1	0.14	9
(1,498)	2:9:B:G:C4'	2:9:B:G:O5'	2:9:B:G:H5'	2:9:B:G:H5''	20	98.1	0.43	9
(1,433)	1:262:A:PRO:N	1:262:A:PRO:C	1:262:A:PRO:HA	1:262:A:PRO:CB	20	97.86	0.3	9
(1,478)	2:5:B:G:C4'	2:5:B:G:O5'	2:5:B:G:H5'	2:5:B:G:H5''	20	97.67	0.72	9
(1,430)	1:262:A:PRO:CA	1:262:A:PRO:CG	1:262:A:PRO:HB2	1:262:A:PRO:HB3	20	97.65	0.72	9
(1,432)	1:262:A:PRO:CG	1:262:A:PRO:N	1:262:A:PRO:HD2	1:262:A:PRO:HD3	20	97.56	0.22	9
(1,431)	1:262:A:PRO:CB	1:262:A:PRO:CD	1:262:A:PRO:HG2	1:262:A:PRO:HG3	20	97.49	0.6	9
(1,381)	1:241:A:GLN:N	1:241:A:GLN:C	1:241:A:GLN:HA	1:241:A:GLN:CB	20	96.44	0.33	9
(1,378)	1:240:A:ALA:N	1:240:A:ALA:C	1:240:A:ALA:HA	1:240:A:ALA:CB	20	96.12	0.28	9
(1,355)	1:228:A:ALA:N	1:228:A:ALA:C	1:228:A:ALA:HA	1:228:A:ALA:CB	20	96.03	0.39	9
(1,388)	1:244:A:CYS:N	1:244:A:CYS:C	1:244:A:CYS:HA	1:244:A:CYS:CB	20	95.9	0.6	9
(1,440)	1:264:A:HIS:N	1:264:A:HIS:C	1:264:A:HIS:HA	1:264:A:HIS:CB	20	95.63	0.43	9
(1,450)	1:268:A:ARG:N	1:268:A:ARG:C	1:268:A:ARG:HA	1:268:A:ARG:CB	20	95.63	0.55	9
(1,442)	1:265:A:ASN:N	1:265:A:ASN:C	1:265:A:ASN:HA	1:265:A:ASN:CB	20	95.55	0.41	9
(1,350)	1:226:A:PHE:N	1:226:A:PHE:C	1:226:A:PHE:HA	1:226:A:PHE:CB	20	95.54	0.32	9
(1,425)	1:259:A:ASN:N	1:259:A:ASN:C	1:259:A:ASN:HA	1:259:A:ASN:CB	20	95.52	0.21	9
(1,367)	1:235:A:ALA:N	1:235:A:ALA:C	1:235:A:ALA:HA	1:235:A:ALA:CB	20	95.5	0.18	9

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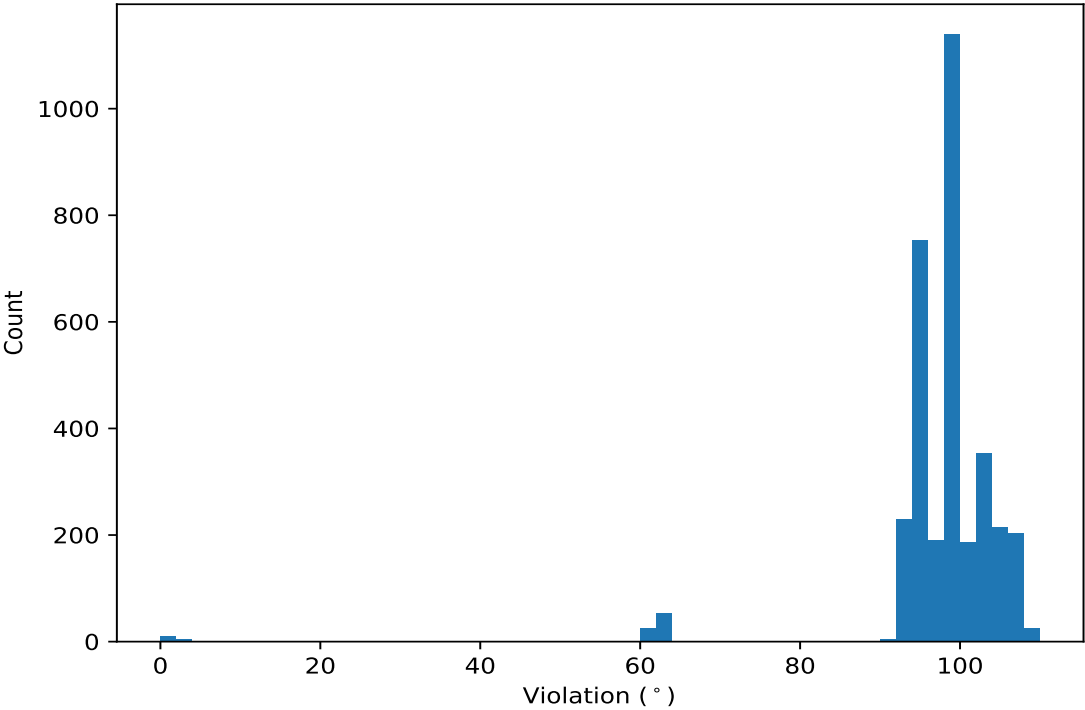
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Me
(1,418)	1:256:A:HIS:N	1:256:A:HIS:C	1:256:A:HIS:HA	1:256:A:HIS:CB	20	95.48	0.36	9
(1,374)	1:238:A:GLN:N	1:238:A:GLN:C	1:238:A:GLN:HA	1:238:A:GLN:CB	20	95.39	0.18	9
(1,366)	1:234:A:PHE:N	1:234:A:PHE:C	1:234:A:PHE:HA	1:234:A:PHE:CB	20	95.33	0.11	9
(1,392)	1:246:A:GLU:N	1:246:A:GLU:C	1:246:A:GLU:HA	1:246:A:GLU:CB	20	95.28	0.14	9
(1,386)	1:243:A:LEU:N	1:243:A:LEU:C	1:243:A:LEU:HA	1:243:A:LEU:CB	20	95.26	0.44	9
(1,371)	1:237:A:ASP:N	1:237:A:ASP:C	1:237:A:ASP:HA	1:237:A:ASP:CB	20	95.23	0.21	9
(1,446)	1:267:A:ASN:N	1:267:A:ASN:C	1:267:A:ASN:HA	1:267:A:ASN:CB	20	95.22	0.41	9
(1,357)	1:229:A:PHE:N	1:229:A:PHE:C	1:229:A:PHE:HA	1:229:A:PHE:CB	20	95.21	0.44	9
(1,438)	1:263:A:LYS:N	1:263:A:LYS:C	1:263:A:LYS:HA	1:263:A:LYS:CB	20	95.2	0.36	9
(1,397)	1:248:A:LEU:N	1:248:A:LEU:C	1:248:A:LEU:HA	1:248:A:LEU:CB	20	95.2	0.5	9
(1,403)	1:250:A:ILE:N	1:250:A:ILE:C	1:250:A:ILE:HA	1:250:A:ILE:CB	20	95.02	0.23	9
(1,383)	1:242:A:SER:N	1:242:A:SER:C	1:242:A:SER:HA	1:242:A:SER:CB	20	95.01	0.38	9
(1,394)	1:247:A:ASP:N	1:247:A:ASP:C	1:247:A:ASP:HA	1:247:A:ASP:CB	20	94.95	0.55	9
(1,377)	1:239:A:ILE:N	1:239:A:ILE:C	1:239:A:ILE:HA	1:239:A:ILE:CB	20	94.94	0.24	9
(1,444)	1:266:A:SER:N	1:266:A:SER:C	1:266:A:SER:HA	1:266:A:SER:CB	20	94.94	0.22	9
(1,364)	1:233:A:THR:N	1:233:A:THR:C	1:233:A:THR:HA	1:233:A:THR:CB	20	94.94	0.19	9
(1,358)	1:230:A:ALA:N	1:230:A:ALA:C	1:230:A:ALA:HA	1:230:A:ALA:CB	20	94.91	0.27	9
(1,453)	1:269:A:GLN:N	1:269:A:GLN:C	1:269:A:GLN:HA	1:269:A:GLN:CB	20	94.89	0.27	9
(1,369)	1:236:A:ASP:N	1:236:A:ASP:C	1:236:A:ASP:HA	1:236:A:ASP:CB	20	94.79	0.26	9
(1,426)	1:260:A:ALA:N	1:260:A:ALA:C	1:260:A:ALA:HA	1:260:A:ALA:CB	20	94.78	0.23	9
(1,354)	1:227:A:ARG:N	1:227:A:ARG:C	1:227:A:ARG:HA	1:227:A:ARG:CB	20	94.77	0.31	9
(1,423)	1:258:A:SER:N	1:258:A:SER:C	1:258:A:SER:HA	1:258:A:SER:CB	20	94.77	0.23	9
(1,408)	1:251:A:LYS:N	1:251:A:LYS:C	1:251:A:LYS:HA	1:251:A:LYS:CB	20	94.72	0.17	9
(1,400)	1:249:A:ILE:N	1:249:A:ILE:C	1:249:A:ILE:HA	1:249:A:ILE:CB	20	94.65	0.36	9
(1,362)	1:232:A:VAL:N	1:232:A:VAL:C	1:232:A:VAL:HA	1:232:A:VAL:CB	20	94.61	0.21	9
(1,414)	1:254:A:SER:N	1:254:A:SER:C	1:254:A:SER:HA	1:254:A:SER:CB	20	94.4	0.38	9
(1,429)	1:261:A:GLU:N	1:261:A:GLU:C	1:261:A:GLU:HA	1:261:A:GLU:CB	20	94.37	0.19	9
(1,360)	1:231:A:PHE:N	1:231:A:PHE:C	1:231:A:PHE:HA	1:231:A:PHE:CB	20	94.35	0.26	9
(1,421)	1:257:A:ILE:N	1:257:A:ILE:C	1:257:A:ILE:HA	1:257:A:ILE:CB	20	94.35	0.49	9
(1,412)	1:253:A:ILE:N	1:253:A:ILE:C	1:253:A:ILE:HA	1:253:A:ILE:CB	20	94.29	0.18	9
(1,416)	1:255:A:VAL:N	1:255:A:VAL:C	1:255:A:VAL:HA	1:255:A:VAL:CB	20	94.07	0.25	9
(1,485)	2:7:B:A:C3'	2:7:B:A:C1'	2:7:B:A:H2'	2:7:B:A:O2'	20	94.02	0.72	9
(1,505)	2:11:B:A:C3'	2:11:B:A:C1'	2:11:B:A:H2'	2:11:B:A:O2'	20	93.56	0.5	9
(1,510)	2:12:B:U:C3'	2:12:B:U:C1'	2:12:B:U:H2'	2:12:B:U:O2'	20	93.52	0.31	9
(1,475)	2:5:B:G:C3'	2:5:B:G:C1'	2:5:B:G:H2'	2:5:B:G:O2'	20	93.48	1.4	9
(1,480)	2:6:B:A:C3'	2:6:B:A:C1'	2:6:B:A:H2'	2:6:B:A:O2'	20	93.38	0.38	9
(1,470)	2:4:B:U:C3'	2:4:B:U:C1'	2:4:B:U:H2'	2:4:B:U:O2'	20	93.37	0.26	9
(1,500)	2:10:B:A:C3'	2:10:B:A:C1'	2:10:B:A:H2'	2:10:B:A:O2'	20	93.36	0.42	9
(1,460)	2:2:B:U:C3'	2:2:B:U:C1'	2:2:B:U:H2'	2:2:B:U:O2'	20	93.28	0.37	9
(1,495)	2:9:B:G:C3'	2:9:B:G:C1'	2:9:B:G:H2'	2:9:B:G:O2'	20	93.24	0.67	9
(1,490)	2:8:B:U:C3'	2:8:B:U:C1'	2:8:B:U:H2'	2:8:B:U:O2'	20	93.11	0.14	9
(1,455)	2:1:B:G:C3'	2:1:B:G:C1'	2:1:B:G:H2'	2:1:B:G:O2'	20	92.92	0.21	9
(1,465)	2:3:B:G:C3'	2:3:B:G:C1'	2:3:B:G:H2'	2:3:B:G:O2'	20	92.73	0.32	9
(1,346)	1:225:A:PRO:CB	1:225:A:PRO:CD	1:225:A:PRO:HG2	1:225:A:PRO:HG3	20	62.97	0.11	6
(1,347)	1:225:A:PRO:CG	1:225:A:PRO:N	1:225:A:PRO:HD2	1:225:A:PRO:HD3	20	62.44	0.1	6
(1,348)	1:225:A:PRO:N	1:225:A:PRO:C	1:225:A:PRO:HA	1:225:A:PRO:CB	20	62.18	0.24	6
(1,345)	1:225:A:PRO:CA	1:225:A:PRO:CG	1:225:A:PRO:HB2	1:225:A:PRO:HB3	20	61.23	0.29	6
(1,560)	1:143:A:HIS:CA	1:143:A:HIS:N	1:142:A:GLY:C	1:142:A:GLY:CA	2	1.98	0.56	1
(1,561)	1:144:A:SER:CA	1:144:A:SER:N	1:143:A:HIS:C	1:143:A:HIS:CA	2	1.86	0.53	1
(1,524)	1:107:A:ILE:CA	1:107:A:ILE:N	1:106:A:LEU:C	1:106:A:LEU:CA	2	1.53	0.11	1

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 ⓘ

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 (°)
(1,501)	2:10:B:A:O3'	2:10:B:A:C2'	2:10:B:A:C4'	2:10:B:A:H3'	15	109.61
(1,471)	2:4:B:U:O3'	2:4:B:U:C2'	2:4:B:U:C4'	2:4:B:U:H3'	6	109.55
(1,471)	2:4:B:U:O3'	2:4:B:U:C2'	2:4:B:U:C4'	2:4:B:U:H3'	12	109.47
(1,471)	2:4:B:U:O3'	2:4:B:U:C2'	2:4:B:U:C4'	2:4:B:U:H3'	7	109.46
(1,501)	2:10:B:A:O3'	2:10:B:A:C2'	2:10:B:A:C4'	2:10:B:A:H3'	19	109.31
(1,471)	2:4:B:U:O3'	2:4:B:U:C2'	2:4:B:U:C4'	2:4:B:U:H3'	2	109.31
(1,456)	2:1:B:G:O3'	2:1:B:G:C2'	2:1:B:G:C4'	2:1:B:G:H3'	10	108.63
(1,506)	2:11:B:A:O3'	2:11:B:A:C2'	2:11:B:A:C4'	2:11:B:A:H3'	12	108.61
(1,496)	2:9:B:G:O3'	2:9:B:G:C2'	2:9:B:G:C4'	2:9:B:G:H3'	14	108.56
(1,506)	2:11:B:A:O3'	2:11:B:A:C2'	2:11:B:A:C4'	2:11:B:A:H3'	19	108.49
(1,506)	2:11:B:A:O3'	2:11:B:A:C2'	2:11:B:A:C4'	2:11:B:A:H3'	9	108.47
(1,506)	2:11:B:A:O3'	2:11:B:A:C2'	2:11:B:A:C4'	2:11:B:A:H3'	15	108.46
(1,476)	2:5:B:G:O3'	2:5:B:G:C2'	2:5:B:G:C4'	2:5:B:G:H3'	3	108.46
(1,506)	2:11:B:A:O3'	2:11:B:A:C2'	2:11:B:A:C4'	2:11:B:A:H3'	14	108.43

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,476)	2:5:B:G:O3'	2:5:B:G:C2'	2:5:B:G:C4'	2:5:B:G:H3'	20	108.39
(1,506)	2:11:B:A:O3'	2:11:B:A:C2'	2:11:B:A:C4'	2:11:B:A:H3'	1	108.35
(1,476)	2:5:B:G:O3'	2:5:B:G:C2'	2:5:B:G:C4'	2:5:B:G:H3'	9	108.34
(1,461)	2:2:B:U:O3'	2:2:B:U:C2'	2:2:B:U:C4'	2:2:B:U:H3'	13	108.26
(1,466)	2:3:B:G:O3'	2:3:B:G:C2'	2:3:B:G:C4'	2:3:B:G:H3'	16	108.23
(1,506)	2:11:B:A:O3'	2:11:B:A:C2'	2:11:B:A:C4'	2:11:B:A:H3'	18	108.19
(1,476)	2:5:B:G:O3'	2:5:B:G:C2'	2:5:B:G:C4'	2:5:B:G:H3'	5	108.08
(1,476)	2:5:B:G:O3'	2:5:B:G:C2'	2:5:B:G:C4'	2:5:B:G:H3'	12	108.08
(1,511)	2:12:B:U:O3'	2:12:B:U:C2'	2:12:B:U:C4'	2:12:B:U:H3'	6	108.05
(1,476)	2:5:B:G:O3'	2:5:B:G:C2'	2:5:B:G:C4'	2:5:B:G:H3'	18	108.04
(1,511)	2:12:B:U:O3'	2:12:B:U:C2'	2:12:B:U:C4'	2:12:B:U:H3'	17	108.03
(1,471)	2:4:B:U:O3'	2:4:B:U:C2'	2:4:B:U:C4'	2:4:B:U:H3'	16	108.0
(1,506)	2:11:B:A:O3'	2:11:B:A:C2'	2:11:B:A:C4'	2:11:B:A:H3'	17	107.99
(1,511)	2:12:B:U:O3'	2:12:B:U:C2'	2:12:B:U:C4'	2:12:B:U:H3'	13	107.94
(1,511)	2:12:B:U:O3'	2:12:B:U:C2'	2:12:B:U:C4'	2:12:B:U:H3'	5	107.9
(1,506)	2:11:B:A:O3'	2:11:B:A:C2'	2:11:B:A:C4'	2:11:B:A:H3'	5	107.9
(1,471)	2:4:B:U:O3'	2:4:B:U:C2'	2:4:B:U:C4'	2:4:B:U:H3'	9	107.9
(1,506)	2:11:B:A:O3'	2:11:B:A:C2'	2:11:B:A:C4'	2:11:B:A:H3'	20	107.89
(1,486)	2:7:B:A:O3'	2:7:B:A:C2'	2:7:B:A:C4'	2:7:B:A:H3'	12	107.89
(1,511)	2:12:B:U:O3'	2:12:B:U:C2'	2:12:B:U:C4'	2:12:B:U:H3'	8	107.82
(1,471)	2:4:B:U:O3'	2:4:B:U:C2'	2:4:B:U:C4'	2:4:B:U:H3'	17	107.79
(1,506)	2:11:B:A:O3'	2:11:B:A:C2'	2:11:B:A:C4'	2:11:B:A:H3'	4	107.78
(1,471)	2:4:B:U:O3'	2:4:B:U:C2'	2:4:B:U:C4'	2:4:B:U:H3'	4	107.76
(1,506)	2:11:B:A:O3'	2:11:B:A:C2'	2:11:B:A:C4'	2:11:B:A:H3'	13	107.75
(1,511)	2:12:B:U:O3'	2:12:B:U:C2'	2:12:B:U:C4'	2:12:B:U:H3'	3	107.71
(1,506)	2:11:B:A:O3'	2:11:B:A:C2'	2:11:B:A:C4'	2:11:B:A:H3'	8	107.71
(1,511)	2:12:B:U:O3'	2:12:B:U:C2'	2:12:B:U:C4'	2:12:B:U:H3'	4	107.7
(1,511)	2:12:B:U:O3'	2:12:B:U:C2'	2:12:B:U:C4'	2:12:B:U:H3'	11	107.67
(1,471)	2:4:B:U:O3'	2:4:B:U:C2'	2:4:B:U:C4'	2:4:B:U:H3'	20	107.65
(1,491)	2:8:B:U:O3'	2:8:B:U:C2'	2:8:B:U:C4'	2:8:B:U:H3'	20	107.64
(1,476)	2:5:B:G:O3'	2:5:B:G:C2'	2:5:B:G:C4'	2:5:B:G:H3'	19	107.64
(1,471)	2:4:B:U:O3'	2:4:B:U:C2'	2:4:B:U:C4'	2:4:B:U:H3'	5	107.64
(1,486)	2:7:B:A:O3'	2:7:B:A:C2'	2:7:B:A:C4'	2:7:B:A:H3'	7	107.62
(1,486)	2:7:B:A:O3'	2:7:B:A:C2'	2:7:B:A:C4'	2:7:B:A:H3'	20	107.6
(1,506)	2:11:B:A:O3'	2:11:B:A:C2'	2:11:B:A:C4'	2:11:B:A:H3'	6	107.58
(1,511)	2:12:B:U:O3'	2:12:B:U:C2'	2:12:B:U:C4'	2:12:B:U:H3'	16	107.56
(1,496)	2:9:B:G:O3'	2:9:B:G:C2'	2:9:B:G:C4'	2:9:B:G:H3'	8	107.56
(1,476)	2:5:B:G:O3'	2:5:B:G:C2'	2:5:B:G:C4'	2:5:B:G:H3'	6	107.56
(1,496)	2:9:B:G:O3'	2:9:B:G:C2'	2:9:B:G:C4'	2:9:B:G:H3'	13	107.55
(1,511)	2:12:B:U:O3'	2:12:B:U:C2'	2:12:B:U:C4'	2:12:B:U:H3'	7	107.54
(1,486)	2:7:B:A:O3'	2:7:B:A:C2'	2:7:B:A:C4'	2:7:B:A:H3'	3	107.54
(1,476)	2:5:B:G:O3'	2:5:B:G:C2'	2:5:B:G:C4'	2:5:B:G:H3'	16	107.54
(1,471)	2:4:B:U:O3'	2:4:B:U:C2'	2:4:B:U:C4'	2:4:B:U:H3'	3	107.53
(1,471)	2:4:B:U:O3'	2:4:B:U:C2'	2:4:B:U:C4'	2:4:B:U:H3'	19	107.52
(1,496)	2:9:B:G:O3'	2:9:B:G:C2'	2:9:B:G:C4'	2:9:B:G:H3'	15	107.51
(1,486)	2:7:B:A:O3'	2:7:B:A:C2'	2:7:B:A:C4'	2:7:B:A:H3'	13	107.5
(1,491)	2:8:B:U:O3'	2:8:B:U:C2'	2:8:B:U:C4'	2:8:B:U:H3'	1	107.49
(1,481)	2:6:B:A:O3'	2:6:B:A:C2'	2:6:B:A:C4'	2:6:B:A:H3'	14	107.47
(1,476)	2:5:B:G:O3'	2:5:B:G:C2'	2:5:B:G:C4'	2:5:B:G:H3'	4	107.45
(1,501)	2:10:B:A:O3'	2:10:B:A:C2'	2:10:B:A:C4'	2:10:B:A:H3'	3	107.42
(1,511)	2:12:B:U:O3'	2:12:B:U:C2'	2:12:B:U:C4'	2:12:B:U:H3'	2	107.41

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,486)	2:7:B:A:O3'	2:7:B:A:C2'	2:7:B:A:C4'	2:7:B:A:H3'	15	107.41
(1,491)	2:8:B:U:O3'	2:8:B:U:C2'	2:8:B:U:C4'	2:8:B:U:H3'	17	107.4
(1,491)	2:8:B:U:O3'	2:8:B:U:C2'	2:8:B:U:C4'	2:8:B:U:H3'	14	107.38
(1,486)	2:7:B:A:O3'	2:7:B:A:C2'	2:7:B:A:C4'	2:7:B:A:H3'	8	107.37
(1,471)	2:4:B:U:O3'	2:4:B:U:C2'	2:4:B:U:C4'	2:4:B:U:H3'	15	107.37
(1,511)	2:12:B:U:O3'	2:12:B:U:C2'	2:12:B:U:C4'	2:12:B:U:H3'	15	107.36
(1,481)	2:6:B:A:O3'	2:6:B:A:C2'	2:6:B:A:C4'	2:6:B:A:H3'	7	107.36
(1,481)	2:6:B:A:O3'	2:6:B:A:C2'	2:6:B:A:C4'	2:6:B:A:H3'	16	107.36
(1,496)	2:9:B:G:O3'	2:9:B:G:C2'	2:9:B:G:C4'	2:9:B:G:H3'	9	107.35
(1,496)	2:9:B:G:O3'	2:9:B:G:C2'	2:9:B:G:C4'	2:9:B:G:H3'	20	107.34
(1,491)	2:8:B:U:O3'	2:8:B:U:C2'	2:8:B:U:C4'	2:8:B:U:H3'	19	107.34
(1,491)	2:8:B:U:O3'	2:8:B:U:C2'	2:8:B:U:C4'	2:8:B:U:H3'	13	107.33
(1,481)	2:6:B:A:O3'	2:6:B:A:C2'	2:6:B:A:C4'	2:6:B:A:H3'	9	107.32
(1,481)	2:6:B:A:O3'	2:6:B:A:C2'	2:6:B:A:C4'	2:6:B:A:H3'	18	107.31
(1,511)	2:12:B:U:O3'	2:12:B:U:C2'	2:12:B:U:C4'	2:12:B:U:H3'	14	107.3
(1,496)	2:9:B:G:O3'	2:9:B:G:C2'	2:9:B:G:C4'	2:9:B:G:H3'	2	107.28
(1,486)	2:7:B:A:O3'	2:7:B:A:C2'	2:7:B:A:C4'	2:7:B:A:H3'	5	107.28
(1,496)	2:9:B:G:O3'	2:9:B:G:C2'	2:9:B:G:C4'	2:9:B:G:H3'	3	107.27
(1,486)	2:7:B:A:O3'	2:7:B:A:C2'	2:7:B:A:C4'	2:7:B:A:H3'	16	107.27
(1,511)	2:12:B:U:O3'	2:12:B:U:C2'	2:12:B:U:C4'	2:12:B:U:H3'	19	107.26
(1,511)	2:12:B:U:O3'	2:12:B:U:C2'	2:12:B:U:C4'	2:12:B:U:H3'	20	107.26
(1,496)	2:9:B:G:O3'	2:9:B:G:C2'	2:9:B:G:C4'	2:9:B:G:H3'	19	107.26
(1,481)	2:6:B:A:O3'	2:6:B:A:C2'	2:6:B:A:C4'	2:6:B:A:H3'	6	107.25
(1,486)	2:7:B:A:O3'	2:7:B:A:C2'	2:7:B:A:C4'	2:7:B:A:H3'	4	107.24
(1,506)	2:11:B:A:O3'	2:11:B:A:C2'	2:11:B:A:C4'	2:11:B:A:H3'	11	107.23
(1,486)	2:7:B:A:O3'	2:7:B:A:C2'	2:7:B:A:C4'	2:7:B:A:H3'	11	107.23
(1,486)	2:7:B:A:O3'	2:7:B:A:C2'	2:7:B:A:C4'	2:7:B:A:H3'	10	107.22
(1,481)	2:6:B:A:O3'	2:6:B:A:C2'	2:6:B:A:C4'	2:6:B:A:H3'	1	107.21
(1,481)	2:6:B:A:O3'	2:6:B:A:C2'	2:6:B:A:C4'	2:6:B:A:H3'	13	107.21
(1,481)	2:6:B:A:O3'	2:6:B:A:C2'	2:6:B:A:C4'	2:6:B:A:H3'	19	107.2
(1,461)	2:2:B:U:O3'	2:2:B:U:C2'	2:2:B:U:C4'	2:2:B:U:H3'	15	107.19
(1,481)	2:6:B:A:O3'	2:6:B:A:C2'	2:6:B:A:C4'	2:6:B:A:H3'	5	107.18
(1,511)	2:12:B:U:O3'	2:12:B:U:C2'	2:12:B:U:C4'	2:12:B:U:H3'	18	107.17
(1,511)	2:12:B:U:O3'	2:12:B:U:C2'	2:12:B:U:C4'	2:12:B:U:H3'	12	107.16
(1,496)	2:9:B:G:O3'	2:9:B:G:C2'	2:9:B:G:C4'	2:9:B:G:H3'	17	107.16
(1,486)	2:7:B:A:O3'	2:7:B:A:C2'	2:7:B:A:C4'	2:7:B:A:H3'	6	107.16
(1,511)	2:12:B:U:O3'	2:12:B:U:C2'	2:12:B:U:C4'	2:12:B:U:H3'	10	107.15
(1,511)	2:12:B:U:O3'	2:12:B:U:C2'	2:12:B:U:C4'	2:12:B:U:H3'	1	107.14
(1,456)	2:1:B:G:O3'	2:1:B:G:C2'	2:1:B:G:C4'	2:1:B:G:H3'	13	107.13
(1,486)	2:7:B:A:O3'	2:7:B:A:C2'	2:7:B:A:C4'	2:7:B:A:H3'	14	107.12
(1,506)	2:11:B:A:O3'	2:11:B:A:C2'	2:11:B:A:C4'	2:11:B:A:H3'	2	107.1
(1,496)	2:9:B:G:O3'	2:9:B:G:C2'	2:9:B:G:C4'	2:9:B:G:H3'	1	107.1
(1,481)	2:6:B:A:O3'	2:6:B:A:C2'	2:6:B:A:C4'	2:6:B:A:H3'	3	107.1
(1,501)	2:10:B:A:O3'	2:10:B:A:C2'	2:10:B:A:C4'	2:10:B:A:H3'	2	107.09
(1,481)	2:6:B:A:O3'	2:6:B:A:C2'	2:6:B:A:C4'	2:6:B:A:H3'	8	107.07
(1,496)	2:9:B:G:O3'	2:9:B:G:C2'	2:9:B:G:C4'	2:9:B:G:H3'	11	107.06
(1,481)	2:6:B:A:O3'	2:6:B:A:C2'	2:6:B:A:C4'	2:6:B:A:H3'	2	107.06
(1,471)	2:4:B:U:O3'	2:4:B:U:C2'	2:4:B:U:C4'	2:4:B:U:H3'	11	107.06
(1,461)	2:2:B:U:O3'	2:2:B:U:C2'	2:2:B:U:C4'	2:2:B:U:H3'	20	107.06
(1,496)	2:9:B:G:O3'	2:9:B:G:C2'	2:9:B:G:C4'	2:9:B:G:H3'	18	107.05
(1,491)	2:8:B:U:O3'	2:8:B:U:C2'	2:8:B:U:C4'	2:8:B:U:H3'	10	107.05

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,506)	2:11:B:A:O3'	2:11:B:A:C2'	2:11:B:A:C4'	2:11:B:A:H3'	7	107.04
(1,506)	2:11:B:A:O3'	2:11:B:A:C2'	2:11:B:A:C4'	2:11:B:A:H3'	16	107.03
(1,501)	2:10:B:A:O3'	2:10:B:A:C2'	2:10:B:A:C4'	2:10:B:A:H3'	10	107.03
(1,476)	2:5:B:G:O3'	2:5:B:G:C2'	2:5:B:G:C4'	2:5:B:G:H3'	1	107.03
(1,461)	2:2:B:U:O3'	2:2:B:U:C2'	2:2:B:U:C4'	2:2:B:U:H3'	6	107.03
(1,506)	2:11:B:A:O3'	2:11:B:A:C2'	2:11:B:A:C4'	2:11:B:A:H3'	3	107.02
(1,476)	2:5:B:G:O3'	2:5:B:G:C2'	2:5:B:G:C4'	2:5:B:G:H3'	8	107.02
(1,476)	2:5:B:G:O3'	2:5:B:G:C2'	2:5:B:G:C4'	2:5:B:G:H3'	15	107.02
(1,456)	2:1:B:G:O3'	2:1:B:G:C2'	2:1:B:G:C4'	2:1:B:G:H3'	9	107.02
(1,481)	2:6:B:A:O3'	2:6:B:A:C2'	2:6:B:A:C4'	2:6:B:A:H3'	10	107.0
(1,456)	2:1:B:G:O3'	2:1:B:G:C2'	2:1:B:G:C4'	2:1:B:G:H3'	5	107.0
(1,511)	2:12:B:U:O3'	2:12:B:U:C2'	2:12:B:U:C4'	2:12:B:U:H3'	9	106.99
(1,486)	2:7:B:A:O3'	2:7:B:A:C2'	2:7:B:A:C4'	2:7:B:A:H3'	17	106.99
(1,456)	2:1:B:G:O3'	2:1:B:G:C2'	2:1:B:G:C4'	2:1:B:G:H3'	8	106.99
(1,486)	2:7:B:A:O3'	2:7:B:A:C2'	2:7:B:A:C4'	2:7:B:A:H3'	19	106.97
(1,501)	2:10:B:A:O3'	2:10:B:A:C2'	2:10:B:A:C4'	2:10:B:A:H3'	7	106.96
(1,471)	2:4:B:U:O3'	2:4:B:U:C2'	2:4:B:U:C4'	2:4:B:U:H3'	18	106.96
(1,456)	2:1:B:G:O3'	2:1:B:G:C2'	2:1:B:G:C4'	2:1:B:G:H3'	4	106.96
(1,456)	2:1:B:G:O3'	2:1:B:G:C2'	2:1:B:G:C4'	2:1:B:G:H3'	14	106.96
(1,456)	2:1:B:G:O3'	2:1:B:G:C2'	2:1:B:G:C4'	2:1:B:G:H3'	15	106.96
(1,481)	2:6:B:A:O3'	2:6:B:A:C2'	2:6:B:A:C4'	2:6:B:A:H3'	15	106.95
(1,471)	2:4:B:U:O3'	2:4:B:U:C2'	2:4:B:U:C4'	2:4:B:U:H3'	13	106.95
(1,501)	2:10:B:A:O3'	2:10:B:A:C2'	2:10:B:A:C4'	2:10:B:A:H3'	11	106.94
(1,476)	2:5:B:G:O3'	2:5:B:G:C2'	2:5:B:G:C4'	2:5:B:G:H3'	14	106.94
(1,471)	2:4:B:U:O3'	2:4:B:U:C2'	2:4:B:U:C4'	2:4:B:U:H3'	10	106.94
(1,461)	2:2:B:U:O3'	2:2:B:U:C2'	2:2:B:U:C4'	2:2:B:U:H3'	4	106.94
(1,476)	2:5:B:G:O3'	2:5:B:G:C2'	2:5:B:G:C4'	2:5:B:G:H3'	17	106.93
(1,461)	2:2:B:U:O3'	2:2:B:U:C2'	2:2:B:U:C4'	2:2:B:U:H3'	7	106.92
(1,486)	2:7:B:A:O3'	2:7:B:A:C2'	2:7:B:A:C4'	2:7:B:A:H3'	18	106.91
(1,496)	2:9:B:G:O3'	2:9:B:G:C2'	2:9:B:G:C4'	2:9:B:G:H3'	10	106.9
(1,456)	2:1:B:G:O3'	2:1:B:G:C2'	2:1:B:G:C4'	2:1:B:G:H3'	16	106.9
(1,481)	2:6:B:A:O3'	2:6:B:A:C2'	2:6:B:A:C4'	2:6:B:A:H3'	17	106.89
(1,471)	2:4:B:U:O3'	2:4:B:U:C2'	2:4:B:U:C4'	2:4:B:U:H3'	14	106.88
(1,501)	2:10:B:A:O3'	2:10:B:A:C2'	2:10:B:A:C4'	2:10:B:A:H3'	16	106.87
(1,496)	2:9:B:G:O3'	2:9:B:G:C2'	2:9:B:G:C4'	2:9:B:G:H3'	16	106.87
(1,461)	2:2:B:U:O3'	2:2:B:U:C2'	2:2:B:U:C4'	2:2:B:U:H3'	1	106.87
(1,456)	2:1:B:G:O3'	2:1:B:G:C2'	2:1:B:G:C4'	2:1:B:G:H3'	17	106.87
(1,456)	2:1:B:G:O3'	2:1:B:G:C2'	2:1:B:G:C4'	2:1:B:G:H3'	20	106.87
(1,491)	2:8:B:U:O3'	2:8:B:U:C2'	2:8:B:U:C4'	2:8:B:U:H3'	16	106.86
(1,461)	2:2:B:U:O3'	2:2:B:U:C2'	2:2:B:U:C4'	2:2:B:U:H3'	12	106.86
(1,456)	2:1:B:G:O3'	2:1:B:G:C2'	2:1:B:G:C4'	2:1:B:G:H3'	2	106.85
(1,491)	2:8:B:U:O3'	2:8:B:U:C2'	2:8:B:U:C4'	2:8:B:U:H3'	15	106.83
(1,501)	2:10:B:A:O3'	2:10:B:A:C2'	2:10:B:A:C4'	2:10:B:A:H3'	20	106.82
(1,461)	2:2:B:U:O3'	2:2:B:U:C2'	2:2:B:U:C4'	2:2:B:U:H3'	18	106.82
(1,456)	2:1:B:G:O3'	2:1:B:G:C2'	2:1:B:G:C4'	2:1:B:G:H3'	1	106.82
(1,456)	2:1:B:G:O3'	2:1:B:G:C2'	2:1:B:G:C4'	2:1:B:G:H3'	7	106.82
(1,471)	2:4:B:U:O3'	2:4:B:U:C2'	2:4:B:U:C4'	2:4:B:U:H3'	8	106.81
(1,501)	2:10:B:A:O3'	2:10:B:A:C2'	2:10:B:A:C4'	2:10:B:A:H3'	18	106.8
(1,496)	2:9:B:G:O3'	2:9:B:G:C2'	2:9:B:G:C4'	2:9:B:G:H3'	7	106.8
(1,461)	2:2:B:U:O3'	2:2:B:U:C2'	2:2:B:U:C4'	2:2:B:U:H3'	2	106.79
(1,456)	2:1:B:G:O3'	2:1:B:G:C2'	2:1:B:G:C4'	2:1:B:G:H3'	6	106.78

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,456)	2:1:B:G:O3'	2:1:B:G:C2'	2:1:B:G:C4'	2:1:B:G:H3'	3	106.77
(1,456)	2:1:B:G:O3'	2:1:B:G:C2'	2:1:B:G:C4'	2:1:B:G:H3'	18	106.77
(1,481)	2:6:B:A:O3'	2:6:B:A:C2'	2:6:B:A:C4'	2:6:B:A:H3'	12	106.76
(1,486)	2:7:B:A:O3'	2:7:B:A:C2'	2:7:B:A:C4'	2:7:B:A:H3'	9	106.75
(1,461)	2:2:B:U:O3'	2:2:B:U:C2'	2:2:B:U:C4'	2:2:B:U:H3'	11	106.75
(1,476)	2:5:B:G:O3'	2:5:B:G:C2'	2:5:B:G:C4'	2:5:B:G:H3'	7	106.73
(1,461)	2:2:B:U:O3'	2:2:B:U:C2'	2:2:B:U:C4'	2:2:B:U:H3'	3	106.73
(1,456)	2:1:B:G:O3'	2:1:B:G:C2'	2:1:B:G:C4'	2:1:B:G:H3'	19	106.73
(1,491)	2:8:B:U:O3'	2:8:B:U:C2'	2:8:B:U:C4'	2:8:B:U:H3'	6	106.72
(1,481)	2:6:B:A:O3'	2:6:B:A:C2'	2:6:B:A:C4'	2:6:B:A:H3'	11	106.72
(1,501)	2:10:B:A:O3'	2:10:B:A:C2'	2:10:B:A:C4'	2:10:B:A:H3'	5	106.71
(1,481)	2:6:B:A:O3'	2:6:B:A:C2'	2:6:B:A:C4'	2:6:B:A:H3'	20	106.71
(1,461)	2:2:B:U:O3'	2:2:B:U:C2'	2:2:B:U:C4'	2:2:B:U:H3'	16	106.71
(1,491)	2:8:B:U:O3'	2:8:B:U:C2'	2:8:B:U:C4'	2:8:B:U:H3'	7	106.7
(1,471)	2:4:B:U:O3'	2:4:B:U:C2'	2:4:B:U:C4'	2:4:B:U:H3'	1	106.68
(1,456)	2:1:B:G:O3'	2:1:B:G:C2'	2:1:B:G:C4'	2:1:B:G:H3'	12	106.68
(1,491)	2:8:B:U:O3'	2:8:B:U:C2'	2:8:B:U:C4'	2:8:B:U:H3'	3	106.67
(1,461)	2:2:B:U:O3'	2:2:B:U:C2'	2:2:B:U:C4'	2:2:B:U:H3'	14	106.66
(1,456)	2:1:B:G:O3'	2:1:B:G:C2'	2:1:B:G:C4'	2:1:B:G:H3'	11	106.66
(1,481)	2:6:B:A:O3'	2:6:B:A:C2'	2:6:B:A:C4'	2:6:B:A:H3'	4	106.64
(1,501)	2:10:B:A:O3'	2:10:B:A:C2'	2:10:B:A:C4'	2:10:B:A:H3'	4	106.62
(1,491)	2:8:B:U:O3'	2:8:B:U:C2'	2:8:B:U:C4'	2:8:B:U:H3'	2	106.62
(1,491)	2:8:B:U:O3'	2:8:B:U:C2'	2:8:B:U:C4'	2:8:B:U:H3'	8	106.62
(1,461)	2:2:B:U:O3'	2:2:B:U:C2'	2:2:B:U:C4'	2:2:B:U:H3'	8	106.61
(1,496)	2:9:B:G:O3'	2:9:B:G:C2'	2:9:B:G:C4'	2:9:B:G:H3'	4	106.6
(1,496)	2:9:B:G:O3'	2:9:B:G:C2'	2:9:B:G:C4'	2:9:B:G:H3'	6	106.6
(1,461)	2:2:B:U:O3'	2:2:B:U:C2'	2:2:B:U:C4'	2:2:B:U:H3'	17	106.55
(1,501)	2:10:B:A:O3'	2:10:B:A:C2'	2:10:B:A:C4'	2:10:B:A:H3'	1	106.53
(1,461)	2:2:B:U:O3'	2:2:B:U:C2'	2:2:B:U:C4'	2:2:B:U:H3'	19	106.53
(1,506)	2:11:B:A:O3'	2:11:B:A:C2'	2:11:B:A:C4'	2:11:B:A:H3'	10	106.51
(1,501)	2:10:B:A:O3'	2:10:B:A:C2'	2:10:B:A:C4'	2:10:B:A:H3'	14	106.5
(1,491)	2:8:B:U:O3'	2:8:B:U:C2'	2:8:B:U:C4'	2:8:B:U:H3'	11	106.49
(1,466)	2:3:B:G:O3'	2:3:B:G:C2'	2:3:B:G:C4'	2:3:B:G:H3'	13	106.49
(1,486)	2:7:B:A:O3'	2:7:B:A:C2'	2:7:B:A:C4'	2:7:B:A:H3'	1	106.44
(1,461)	2:2:B:U:O3'	2:2:B:U:C2'	2:2:B:U:C4'	2:2:B:U:H3'	9	106.44
(1,501)	2:10:B:A:O3'	2:10:B:A:C2'	2:10:B:A:C4'	2:10:B:A:H3'	9	106.41
(1,466)	2:3:B:G:O3'	2:3:B:G:C2'	2:3:B:G:C4'	2:3:B:G:H3'	7	106.41
(1,461)	2:2:B:U:O3'	2:2:B:U:C2'	2:2:B:U:C4'	2:2:B:U:H3'	5	106.4
(1,496)	2:9:B:G:O3'	2:9:B:G:C2'	2:9:B:G:C4'	2:9:B:G:H3'	12	106.39
(1,501)	2:10:B:A:O3'	2:10:B:A:C2'	2:10:B:A:C4'	2:10:B:A:H3'	13	106.38
(1,501)	2:10:B:A:O3'	2:10:B:A:C2'	2:10:B:A:C4'	2:10:B:A:H3'	17	106.37
(1,466)	2:3:B:G:O3'	2:3:B:G:C2'	2:3:B:G:C4'	2:3:B:G:H3'	1	106.33
(1,486)	2:7:B:A:O3'	2:7:B:A:C2'	2:7:B:A:C4'	2:7:B:A:H3'	2	106.32
(1,496)	2:9:B:G:O3'	2:9:B:G:C2'	2:9:B:G:C4'	2:9:B:G:H3'	5	106.31
(1,466)	2:3:B:G:O3'	2:3:B:G:C2'	2:3:B:G:C4'	2:3:B:G:H3'	4	106.31
(1,419)	1:257:A:ILE:CA	1:257:A:ILE:CG2	1:257:A:ILE:CG1	1:257:A:ILE:HB	18	106.31
(1,476)	2:5:B:G:O3'	2:5:B:G:C2'	2:5:B:G:C4'	2:5:B:G:H3'	13	106.3
(1,396)	1:248:A:LEU:CB	1:248:A:LEU:CD1	1:248:A:LEU:CD2	1:248:A:LEU:HG	17	106.3
(1,476)	2:5:B:G:O3'	2:5:B:G:C2'	2:5:B:G:C4'	2:5:B:G:H3'	10	106.29
(1,501)	2:10:B:A:O3'	2:10:B:A:C2'	2:10:B:A:C4'	2:10:B:A:H3'	6	106.19
(1,501)	2:10:B:A:O3'	2:10:B:A:C2'	2:10:B:A:C4'	2:10:B:A:H3'	8	106.16

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,491)	2:8:B:U:O3'	2:8:B:U:C2'	2:8:B:U:C4'	2:8:B:U:H3'	18	106.14
(1,466)	2:3:B:G:O3'	2:3:B:G:C2'	2:3:B:G:C4'	2:3:B:G:H3'	2	106.13
(1,461)	2:2:B:U:O3'	2:2:B:U:C2'	2:2:B:U:C4'	2:2:B:U:H3'	10	106.13
(1,501)	2:10:B:A:O3'	2:10:B:A:C2'	2:10:B:A:C4'	2:10:B:A:H3'	12	106.11
(1,466)	2:3:B:G:O3'	2:3:B:G:C2'	2:3:B:G:C4'	2:3:B:G:H3'	11	106.09
(1,419)	1:257:A:ILE:CA	1:257:A:ILE:CG2	1:257:A:ILE:CG1	1:257:A:ILE:HB	1	106.05
(1,491)	2:8:B:U:O3'	2:8:B:U:C2'	2:8:B:U:C4'	2:8:B:U:H3'	9	106.04
(1,476)	2:5:B:G:O3'	2:5:B:G:C2'	2:5:B:G:C4'	2:5:B:G:H3'	2	106.04
(1,466)	2:3:B:G:O3'	2:3:B:G:C2'	2:3:B:G:C4'	2:3:B:G:H3'	12	106.04
(1,466)	2:3:B:G:O3'	2:3:B:G:C2'	2:3:B:G:C4'	2:3:B:G:H3'	15	106.02
(1,466)	2:3:B:G:O3'	2:3:B:G:C2'	2:3:B:G:C4'	2:3:B:G:H3'	6	106.01
(1,361)	1:232:A:VAL:CA	1:232:A:VAL:CG1	1:232:A:VAL:CG2	1:232:A:VAL:HB	14	105.99
(1,466)	2:3:B:G:O3'	2:3:B:G:C2'	2:3:B:G:C4'	2:3:B:G:H3'	10	105.95
(1,419)	1:257:A:ILE:CA	1:257:A:ILE:CG2	1:257:A:ILE:CG1	1:257:A:ILE:HB	20	105.95
(1,466)	2:3:B:G:O3'	2:3:B:G:C2'	2:3:B:G:C4'	2:3:B:G:H3'	5	105.94
(1,466)	2:3:B:G:O3'	2:3:B:G:C2'	2:3:B:G:C4'	2:3:B:G:H3'	17	105.94
(1,466)	2:3:B:G:O3'	2:3:B:G:C2'	2:3:B:G:C4'	2:3:B:G:H3'	20	105.94
(1,466)	2:3:B:G:O3'	2:3:B:G:C2'	2:3:B:G:C4'	2:3:B:G:H3'	9	105.93
(1,491)	2:8:B:U:O3'	2:8:B:U:C2'	2:8:B:U:C4'	2:8:B:U:H3'	12	105.9
(1,466)	2:3:B:G:O3'	2:3:B:G:C2'	2:3:B:G:C4'	2:3:B:G:H3'	8	105.88
(1,466)	2:3:B:G:O3'	2:3:B:G:C2'	2:3:B:G:C4'	2:3:B:G:H3'	19	105.87
(1,491)	2:8:B:U:O3'	2:8:B:U:C2'	2:8:B:U:C4'	2:8:B:U:H3'	5	105.86
(1,419)	1:257:A:ILE:CA	1:257:A:ILE:CG2	1:257:A:ILE:CG1	1:257:A:ILE:HB	7	105.86
(1,361)	1:232:A:VAL:CA	1:232:A:VAL:CG1	1:232:A:VAL:CG2	1:232:A:VAL:HB	8	105.85
(1,466)	2:3:B:G:O3'	2:3:B:G:C2'	2:3:B:G:C4'	2:3:B:G:H3'	14	105.83
(1,491)	2:8:B:U:O3'	2:8:B:U:C2'	2:8:B:U:C4'	2:8:B:U:H3'	4	105.81
(1,466)	2:3:B:G:O3'	2:3:B:G:C2'	2:3:B:G:C4'	2:3:B:G:H3'	18	105.8
(1,361)	1:232:A:VAL:CA	1:232:A:VAL:CG1	1:232:A:VAL:CG2	1:232:A:VAL:HB	19	105.79
(1,361)	1:232:A:VAL:CA	1:232:A:VAL:CG1	1:232:A:VAL:CG2	1:232:A:VAL:HB	6	105.73
(1,361)	1:232:A:VAL:CA	1:232:A:VAL:CG1	1:232:A:VAL:CG2	1:232:A:VAL:HB	3	105.71
(1,361)	1:232:A:VAL:CA	1:232:A:VAL:CG1	1:232:A:VAL:CG2	1:232:A:VAL:HB	11	105.7
(1,462)	2:2:B:U:C3'	2:2:B:U:C5'	2:2:B:U:O4'	2:2:B:U:H4'	5	105.69
(1,361)	1:232:A:VAL:CA	1:232:A:VAL:CG1	1:232:A:VAL:CG2	1:232:A:VAL:HB	4	105.69
(1,361)	1:232:A:VAL:CA	1:232:A:VAL:CG1	1:232:A:VAL:CG2	1:232:A:VAL:HB	10	105.68
(1,361)	1:232:A:VAL:CA	1:232:A:VAL:CG1	1:232:A:VAL:CG2	1:232:A:VAL:HB	18	105.68
(1,466)	2:3:B:G:O3'	2:3:B:G:C2'	2:3:B:G:C4'	2:3:B:G:H3'	3	105.66
(1,361)	1:232:A:VAL:CA	1:232:A:VAL:CG1	1:232:A:VAL:CG2	1:232:A:VAL:HB	1	105.66
(1,361)	1:232:A:VAL:CA	1:232:A:VAL:CG1	1:232:A:VAL:CG2	1:232:A:VAL:HB	5	105.65
(1,361)	1:232:A:VAL:CA	1:232:A:VAL:CG1	1:232:A:VAL:CG2	1:232:A:VAL:HB	12	105.64
(1,419)	1:257:A:ILE:CA	1:257:A:ILE:CG2	1:257:A:ILE:CG1	1:257:A:ILE:HB	13	105.62
(1,410)	1:253:A:ILE:CA	1:253:A:ILE:CG2	1:253:A:ILE:CG1	1:253:A:ILE:HB	8	105.58
(1,361)	1:232:A:VAL:CA	1:232:A:VAL:CG1	1:232:A:VAL:CG2	1:232:A:VAL:HB	2	105.58
(1,419)	1:257:A:ILE:CA	1:257:A:ILE:CG2	1:257:A:ILE:CG1	1:257:A:ILE:HB	10	105.57
(1,419)	1:257:A:ILE:CA	1:257:A:ILE:CG2	1:257:A:ILE:CG1	1:257:A:ILE:HB	11	105.57
(1,415)	1:255:A:VAL:CA	1:255:A:VAL:CG1	1:255:A:VAL:CG2	1:255:A:VAL:HB	12	105.56
(1,361)	1:232:A:VAL:CA	1:232:A:VAL:CG1	1:232:A:VAL:CG2	1:232:A:VAL:HB	15	105.52
(1,410)	1:253:A:ILE:CA	1:253:A:ILE:CG2	1:253:A:ILE:CG1	1:253:A:ILE:HB	19	105.5
(1,361)	1:232:A:VAL:CA	1:232:A:VAL:CG1	1:232:A:VAL:CG2	1:232:A:VAL:HB	20	105.47
(1,410)	1:253:A:ILE:CA	1:253:A:ILE:CG2	1:253:A:ILE:CG1	1:253:A:ILE:HB	10	105.46
(1,415)	1:255:A:VAL:CA	1:255:A:VAL:CG1	1:255:A:VAL:CG2	1:255:A:VAL:HB	5	105.45
(1,462)	2:2:B:U:C3'	2:2:B:U:C5'	2:2:B:U:O4'	2:2:B:U:H4'	19	105.44

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,419)	1:257:A:ILE:CA	1:257:A:ILE:CG2	1:257:A:ILE:CG1	1:257:A:ILE:HB	8	105.43
(1,415)	1:255:A:VAL:CA	1:255:A:VAL:CG1	1:255:A:VAL:CG2	1:255:A:VAL:HB	19	105.43
(1,375)	1:239:A:ILE:CA	1:239:A:ILE:CG2	1:239:A:ILE:CG1	1:239:A:ILE:HB	11	105.42
(1,415)	1:255:A:VAL:CA	1:255:A:VAL:CG1	1:255:A:VAL:CG2	1:255:A:VAL:HB	4	105.41
(1,476)	2:5:B:G:O3'	2:5:B:G:C2'	2:5:B:G:C4'	2:5:B:G:H3'	11	105.4
(1,415)	1:255:A:VAL:CA	1:255:A:VAL:CG1	1:255:A:VAL:CG2	1:255:A:VAL:HB	20	105.4
(1,415)	1:255:A:VAL:CA	1:255:A:VAL:CG1	1:255:A:VAL:CG2	1:255:A:VAL:HB	1	105.35
(1,410)	1:253:A:ILE:CA	1:253:A:ILE:CG2	1:253:A:ILE:CG1	1:253:A:ILE:HB	4	105.35
(1,410)	1:253:A:ILE:CA	1:253:A:ILE:CG2	1:253:A:ILE:CG1	1:253:A:ILE:HB	13	105.35
(1,415)	1:255:A:VAL:CA	1:255:A:VAL:CG1	1:255:A:VAL:CG2	1:255:A:VAL:HB	10	105.34
(1,410)	1:253:A:ILE:CA	1:253:A:ILE:CG2	1:253:A:ILE:CG1	1:253:A:ILE:HB	5	105.34
(1,462)	2:2:B:U:C3'	2:2:B:U:C5'	2:2:B:U:O4'	2:2:B:U:H4'	12	105.33
(1,410)	1:253:A:ILE:CA	1:253:A:ILE:CG2	1:253:A:ILE:CG1	1:253:A:ILE:HB	7	105.32
(1,419)	1:257:A:ILE:CA	1:257:A:ILE:CG2	1:257:A:ILE:CG1	1:257:A:ILE:HB	2	105.3
(1,419)	1:257:A:ILE:CA	1:257:A:ILE:CG2	1:257:A:ILE:CG1	1:257:A:ILE:HB	9	105.29
(1,419)	1:257:A:ILE:CA	1:257:A:ILE:CG2	1:257:A:ILE:CG1	1:257:A:ILE:HB	15	105.29
(1,415)	1:255:A:VAL:CA	1:255:A:VAL:CG1	1:255:A:VAL:CG2	1:255:A:VAL:HB	7	105.29
(1,415)	1:255:A:VAL:CA	1:255:A:VAL:CG1	1:255:A:VAL:CG2	1:255:A:VAL:HB	6	105.28
(1,415)	1:255:A:VAL:CA	1:255:A:VAL:CG1	1:255:A:VAL:CG2	1:255:A:VAL:HB	13	105.28
(1,462)	2:2:B:U:C3'	2:2:B:U:C5'	2:2:B:U:O4'	2:2:B:U:H4'	8	105.26
(1,419)	1:257:A:ILE:CA	1:257:A:ILE:CG2	1:257:A:ILE:CG1	1:257:A:ILE:HB	19	105.26
(1,419)	1:257:A:ILE:CA	1:257:A:ILE:CG2	1:257:A:ILE:CG1	1:257:A:ILE:HB	14	105.24
(1,415)	1:255:A:VAL:CA	1:255:A:VAL:CG1	1:255:A:VAL:CG2	1:255:A:VAL:HB	17	105.24
(1,410)	1:253:A:ILE:CA	1:253:A:ILE:CG2	1:253:A:ILE:CG1	1:253:A:ILE:HB	16	105.24
(1,419)	1:257:A:ILE:CA	1:257:A:ILE:CG2	1:257:A:ILE:CG1	1:257:A:ILE:HB	12	105.23
(1,410)	1:253:A:ILE:CA	1:253:A:ILE:CG2	1:253:A:ILE:CG1	1:253:A:ILE:HB	20	105.23
(1,419)	1:257:A:ILE:CA	1:257:A:ILE:CG2	1:257:A:ILE:CG1	1:257:A:ILE:HB	5	105.22
(1,419)	1:257:A:ILE:CA	1:257:A:ILE:CG2	1:257:A:ILE:CG1	1:257:A:ILE:HB	17	105.21
(1,410)	1:253:A:ILE:CA	1:253:A:ILE:CG2	1:253:A:ILE:CG1	1:253:A:ILE:HB	17	105.21
(1,410)	1:253:A:ILE:CA	1:253:A:ILE:CG2	1:253:A:ILE:CG1	1:253:A:ILE:HB	18	105.21
(1,467)	2:3:B:G:C3'	2:3:B:G:C5'	2:3:B:G:O4'	2:3:B:G:H4'	3	105.2
(1,415)	1:255:A:VAL:CA	1:255:A:VAL:CG1	1:255:A:VAL:CG2	1:255:A:VAL:HB	18	105.19
(1,462)	2:2:B:U:C3'	2:2:B:U:C5'	2:2:B:U:O4'	2:2:B:U:H4'	14	105.18
(1,462)	2:2:B:U:C3'	2:2:B:U:C5'	2:2:B:U:O4'	2:2:B:U:H4'	16	105.18
(1,410)	1:253:A:ILE:CA	1:253:A:ILE:CG2	1:253:A:ILE:CG1	1:253:A:ILE:HB	1	105.18
(1,396)	1:248:A:LEU:CB	1:248:A:LEU:CD1	1:248:A:LEU:CD2	1:248:A:LEU:HG	6	105.18
(1,396)	1:248:A:LEU:CB	1:248:A:LEU:CD1	1:248:A:LEU:CD2	1:248:A:LEU:HG	11	105.18
(1,462)	2:2:B:U:C3'	2:2:B:U:C5'	2:2:B:U:O4'	2:2:B:U:H4'	9	105.17
(1,419)	1:257:A:ILE:CA	1:257:A:ILE:CG2	1:257:A:ILE:CG1	1:257:A:ILE:HB	4	105.17
(1,410)	1:253:A:ILE:CA	1:253:A:ILE:CG2	1:253:A:ILE:CG1	1:253:A:ILE:HB	12	105.16
(1,398)	1:249:A:ILE:CA	1:249:A:ILE:CG2	1:249:A:ILE:CG1	1:249:A:ILE:HB	13	105.16
(1,410)	1:253:A:ILE:CA	1:253:A:ILE:CG2	1:253:A:ILE:CG1	1:253:A:ILE:HB	6	105.15
(1,410)	1:253:A:ILE:CA	1:253:A:ILE:CG2	1:253:A:ILE:CG1	1:253:A:ILE:HB	14	105.15
(1,415)	1:255:A:VAL:CA	1:255:A:VAL:CG1	1:255:A:VAL:CG2	1:255:A:VAL:HB	14	105.14
(1,467)	2:3:B:G:C3'	2:3:B:G:C5'	2:3:B:G:O4'	2:3:B:G:H4'	6	105.13
(1,375)	1:239:A:ILE:CA	1:239:A:ILE:CG2	1:239:A:ILE:CG1	1:239:A:ILE:HB	20	105.13
(1,419)	1:257:A:ILE:CA	1:257:A:ILE:CG2	1:257:A:ILE:CG1	1:257:A:ILE:HB	6	105.12
(1,415)	1:255:A:VAL:CA	1:255:A:VAL:CG1	1:255:A:VAL:CG2	1:255:A:VAL:HB	16	105.12
(1,410)	1:253:A:ILE:CA	1:253:A:ILE:CG2	1:253:A:ILE:CG1	1:253:A:ILE:HB	9	105.11
(1,410)	1:253:A:ILE:CA	1:253:A:ILE:CG2	1:253:A:ILE:CG1	1:253:A:ILE:HB	3	105.1
(1,419)	1:257:A:ILE:CA	1:257:A:ILE:CG2	1:257:A:ILE:CG1	1:257:A:ILE:HB	3	105.09

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,398)	1:249:A:ILE:CA	1:249:A:ILE:CG2	1:249:A:ILE:CG1	1:249:A:ILE:HB	15	105.09
(1,415)	1:255:A:VAL:CA	1:255:A:VAL:CG1	1:255:A:VAL:CG2	1:255:A:VAL:HB	2	105.07
(1,415)	1:255:A:VAL:CA	1:255:A:VAL:CG1	1:255:A:VAL:CG2	1:255:A:VAL:HB	15	105.07
(1,467)	2:3:B:G:C3'	2:3:B:G:C5'	2:3:B:G:O4'	2:3:B:G:H4'	8	105.06
(1,462)	2:2:B:U:C3'	2:2:B:U:C5'	2:2:B:U:O4'	2:2:B:U:H4'	11	105.05
(1,375)	1:239:A:ILE:CA	1:239:A:ILE:CG2	1:239:A:ILE:CG1	1:239:A:ILE:HB	6	105.05
(1,467)	2:3:B:G:C3'	2:3:B:G:C5'	2:3:B:G:O4'	2:3:B:G:H4'	18	105.04
(1,419)	1:257:A:ILE:CA	1:257:A:ILE:CG2	1:257:A:ILE:CG1	1:257:A:ILE:HB	16	105.04
(1,398)	1:249:A:ILE:CA	1:249:A:ILE:CG2	1:249:A:ILE:CG1	1:249:A:ILE:HB	9	105.04
(1,462)	2:2:B:U:C3'	2:2:B:U:C5'	2:2:B:U:O4'	2:2:B:U:H4'	17	105.03
(1,410)	1:253:A:ILE:CA	1:253:A:ILE:CG2	1:253:A:ILE:CG1	1:253:A:ILE:HB	15	105.03
(1,398)	1:249:A:ILE:CA	1:249:A:ILE:CG2	1:249:A:ILE:CG1	1:249:A:ILE:HB	11	105.02
(1,396)	1:248:A:LEU:CB	1:248:A:LEU:CD1	1:248:A:LEU:CD2	1:248:A:LEU:HG	18	105.02
(1,375)	1:239:A:ILE:CA	1:239:A:ILE:CG2	1:239:A:ILE:CG1	1:239:A:ILE:HB	1	105.0
(1,375)	1:239:A:ILE:CA	1:239:A:ILE:CG2	1:239:A:ILE:CG1	1:239:A:ILE:HB	2	105.0
(1,375)	1:239:A:ILE:CA	1:239:A:ILE:CG2	1:239:A:ILE:CG1	1:239:A:ILE:HB	8	105.0
(1,467)	2:3:B:G:C3'	2:3:B:G:C5'	2:3:B:G:O4'	2:3:B:G:H4'	5	104.99
(1,415)	1:255:A:VAL:CA	1:255:A:VAL:CG1	1:255:A:VAL:CG2	1:255:A:VAL:HB	9	104.98
(1,375)	1:239:A:ILE:CA	1:239:A:ILE:CG2	1:239:A:ILE:CG1	1:239:A:ILE:HB	19	104.97
(1,410)	1:253:A:ILE:CA	1:253:A:ILE:CG2	1:253:A:ILE:CG1	1:253:A:ILE:HB	2	104.96
(1,398)	1:249:A:ILE:CA	1:249:A:ILE:CG2	1:249:A:ILE:CG1	1:249:A:ILE:HB	2	104.96
(1,396)	1:248:A:LEU:CB	1:248:A:LEU:CD1	1:248:A:LEU:CD2	1:248:A:LEU:HG	5	104.96
(1,396)	1:248:A:LEU:CB	1:248:A:LEU:CD1	1:248:A:LEU:CD2	1:248:A:LEU:HG	19	104.94
(1,375)	1:239:A:ILE:CA	1:239:A:ILE:CG2	1:239:A:ILE:CG1	1:239:A:ILE:HB	16	104.94
(1,415)	1:255:A:VAL:CA	1:255:A:VAL:CG1	1:255:A:VAL:CG2	1:255:A:VAL:HB	8	104.93
(1,396)	1:248:A:LEU:CB	1:248:A:LEU:CD1	1:248:A:LEU:CD2	1:248:A:LEU:HG	12	104.92
(1,375)	1:239:A:ILE:CA	1:239:A:ILE:CG2	1:239:A:ILE:CG1	1:239:A:ILE:HB	14	104.92
(1,398)	1:249:A:ILE:CA	1:249:A:ILE:CG2	1:249:A:ILE:CG1	1:249:A:ILE:HB	14	104.91
(1,396)	1:248:A:LEU:CB	1:248:A:LEU:CD1	1:248:A:LEU:CD2	1:248:A:LEU:HG	15	104.91
(1,375)	1:239:A:ILE:CA	1:239:A:ILE:CG2	1:239:A:ILE:CG1	1:239:A:ILE:HB	5	104.91
(1,398)	1:249:A:ILE:CA	1:249:A:ILE:CG2	1:249:A:ILE:CG1	1:249:A:ILE:HB	1	104.9
(1,398)	1:249:A:ILE:CA	1:249:A:ILE:CG2	1:249:A:ILE:CG1	1:249:A:ILE:HB	5	104.9
(1,375)	1:239:A:ILE:CA	1:239:A:ILE:CG2	1:239:A:ILE:CG1	1:239:A:ILE:HB	4	104.9
(1,462)	2:2:B:U:C3'	2:2:B:U:C5'	2:2:B:U:O4'	2:2:B:U:H4'	3	104.88
(1,467)	2:3:B:G:C3'	2:3:B:G:C5'	2:3:B:G:O4'	2:3:B:G:H4'	19	104.87
(1,467)	2:3:B:G:C3'	2:3:B:G:C5'	2:3:B:G:O4'	2:3:B:G:H4'	14	104.86
(1,410)	1:253:A:ILE:CA	1:253:A:ILE:CG2	1:253:A:ILE:CG1	1:253:A:ILE:HB	11	104.85
(1,398)	1:249:A:ILE:CA	1:249:A:ILE:CG2	1:249:A:ILE:CG1	1:249:A:ILE:HB	16	104.84
(1,375)	1:239:A:ILE:CA	1:239:A:ILE:CG2	1:239:A:ILE:CG1	1:239:A:ILE:HB	9	104.84
(1,398)	1:249:A:ILE:CA	1:249:A:ILE:CG2	1:249:A:ILE:CG1	1:249:A:ILE:HB	10	104.83
(1,396)	1:248:A:LEU:CB	1:248:A:LEU:CD1	1:248:A:LEU:CD2	1:248:A:LEU:HG	3	104.82
(1,375)	1:239:A:ILE:CA	1:239:A:ILE:CG2	1:239:A:ILE:CG1	1:239:A:ILE:HB	7	104.81
(1,375)	1:239:A:ILE:CA	1:239:A:ILE:CG2	1:239:A:ILE:CG1	1:239:A:ILE:HB	18	104.81
(1,415)	1:255:A:VAL:CA	1:255:A:VAL:CG1	1:255:A:VAL:CG2	1:255:A:VAL:HB	11	104.8
(1,398)	1:249:A:ILE:CA	1:249:A:ILE:CG2	1:249:A:ILE:CG1	1:249:A:ILE:HB	17	104.8
(1,375)	1:239:A:ILE:CA	1:239:A:ILE:CG2	1:239:A:ILE:CG1	1:239:A:ILE:HB	3	104.8
(1,398)	1:249:A:ILE:CA	1:249:A:ILE:CG2	1:249:A:ILE:CG1	1:249:A:ILE:HB	18	104.79
(1,398)	1:249:A:ILE:CA	1:249:A:ILE:CG2	1:249:A:ILE:CG1	1:249:A:ILE:HB	20	104.79
(1,396)	1:248:A:LEU:CB	1:248:A:LEU:CD1	1:248:A:LEU:CD2	1:248:A:LEU:HG	4	104.79
(1,375)	1:239:A:ILE:CA	1:239:A:ILE:CG2	1:239:A:ILE:CG1	1:239:A:ILE:HB	13	104.79
(1,398)	1:249:A:ILE:CA	1:249:A:ILE:CG2	1:249:A:ILE:CG1	1:249:A:ILE:HB	7	104.77

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,396)	1:248:A:LEU:CB	1:248:A:LEU:CD1	1:248:A:LEU:CD2	1:248:A:LEU:HG	1	104.77
(1,396)	1:248:A:LEU:CB	1:248:A:LEU:CD1	1:248:A:LEU:CD2	1:248:A:LEU:HG	10	104.77
(1,398)	1:249:A:ILE:CA	1:249:A:ILE:CG2	1:249:A:ILE:CG1	1:249:A:ILE:HB	4	104.76
(1,462)	2:2:B:U:C3'	2:2:B:U:C5'	2:2:B:U:O4'	2:2:B:U:H4'	18	104.75
(1,398)	1:249:A:ILE:CA	1:249:A:ILE:CG2	1:249:A:ILE:CG1	1:249:A:ILE:HB	12	104.75
(1,467)	2:3:B:G:C3'	2:3:B:G:C5'	2:3:B:G:O4'	2:3:B:G:H4'	11	104.73
(1,467)	2:3:B:G:C3'	2:3:B:G:C5'	2:3:B:G:O4'	2:3:B:G:H4'	12	104.73
(1,398)	1:249:A:ILE:CA	1:249:A:ILE:CG2	1:249:A:ILE:CG1	1:249:A:ILE:HB	19	104.73
(1,375)	1:239:A:ILE:CA	1:239:A:ILE:CG2	1:239:A:ILE:CG1	1:239:A:ILE:HB	17	104.73
(1,467)	2:3:B:G:C3'	2:3:B:G:C5'	2:3:B:G:O4'	2:3:B:G:H4'	9	104.72
(1,385)	1:243:A:LEU:CB	1:243:A:LEU:CD1	1:243:A:LEU:CD2	1:243:A:LEU:HG	3	104.72
(1,375)	1:239:A:ILE:CA	1:239:A:ILE:CG2	1:239:A:ILE:CG1	1:239:A:ILE:HB	15	104.72
(1,462)	2:2:B:U:C3'	2:2:B:U:C5'	2:2:B:U:O4'	2:2:B:U:H4'	6	104.71
(1,415)	1:255:A:VAL:CA	1:255:A:VAL:CG1	1:255:A:VAL:CG2	1:255:A:VAL:HB	3	104.71
(1,398)	1:249:A:ILE:CA	1:249:A:ILE:CG2	1:249:A:ILE:CG1	1:249:A:ILE:HB	3	104.66
(1,375)	1:239:A:ILE:CA	1:239:A:ILE:CG2	1:239:A:ILE:CG1	1:239:A:ILE:HB	10	104.66
(1,467)	2:3:B:G:C3'	2:3:B:G:C5'	2:3:B:G:O4'	2:3:B:G:H4'	17	104.65
(1,398)	1:249:A:ILE:CA	1:249:A:ILE:CG2	1:249:A:ILE:CG1	1:249:A:ILE:HB	8	104.65
(1,396)	1:248:A:LEU:CB	1:248:A:LEU:CD1	1:248:A:LEU:CD2	1:248:A:LEU:HG	2	104.65
(1,396)	1:248:A:LEU:CB	1:248:A:LEU:CD1	1:248:A:LEU:CD2	1:248:A:LEU:HG	8	104.62
(1,396)	1:248:A:LEU:CB	1:248:A:LEU:CD1	1:248:A:LEU:CD2	1:248:A:LEU:HG	20	104.6
(1,385)	1:243:A:LEU:CB	1:243:A:LEU:CD1	1:243:A:LEU:CD2	1:243:A:LEU:HG	6	104.6
(1,396)	1:248:A:LEU:CB	1:248:A:LEU:CD1	1:248:A:LEU:CD2	1:248:A:LEU:HG	16	104.58
(1,385)	1:243:A:LEU:CB	1:243:A:LEU:CD1	1:243:A:LEU:CD2	1:243:A:LEU:HG	12	104.56
(1,385)	1:243:A:LEU:CB	1:243:A:LEU:CD1	1:243:A:LEU:CD2	1:243:A:LEU:HG	20	104.53
(1,494)	2:9:B:G:C2'	2:9:B:G:O4'	2:9:B:G:N9	2:9:B:G:H1'	13	104.5
(1,396)	1:248:A:LEU:CB	1:248:A:LEU:CD1	1:248:A:LEU:CD2	1:248:A:LEU:HG	9	104.49
(1,396)	1:248:A:LEU:CB	1:248:A:LEU:CD1	1:248:A:LEU:CD2	1:248:A:LEU:HG	14	104.49
(1,398)	1:249:A:ILE:CA	1:249:A:ILE:CG2	1:249:A:ILE:CG1	1:249:A:ILE:HB	6	104.48
(1,385)	1:243:A:LEU:CB	1:243:A:LEU:CD1	1:243:A:LEU:CD2	1:243:A:LEU:HG	5	104.45
(1,385)	1:243:A:LEU:CB	1:243:A:LEU:CD1	1:243:A:LEU:CD2	1:243:A:LEU:HG	18	104.45
(1,375)	1:239:A:ILE:CA	1:239:A:ILE:CG2	1:239:A:ILE:CG1	1:239:A:ILE:HB	12	104.45
(1,401)	1:250:A:ILE:CA	1:250:A:ILE:CG2	1:250:A:ILE:CG1	1:250:A:ILE:HB	7	104.43
(1,385)	1:243:A:LEU:CB	1:243:A:LEU:CD1	1:243:A:LEU:CD2	1:243:A:LEU:HG	1	104.39
(1,482)	2:6:B:A:C3'	2:6:B:A:C5'	2:6:B:A:O4'	2:6:B:A:H4'	6	104.37
(1,396)	1:248:A:LEU:CB	1:248:A:LEU:CD1	1:248:A:LEU:CD2	1:248:A:LEU:HG	13	104.37
(1,477)	2:5:B:G:C3'	2:5:B:G:C5'	2:5:B:G:O4'	2:5:B:G:H4'	8	104.35
(1,396)	1:248:A:LEU:CB	1:248:A:LEU:CD1	1:248:A:LEU:CD2	1:248:A:LEU:HG	7	104.35
(1,477)	2:5:B:G:C3'	2:5:B:G:C5'	2:5:B:G:O4'	2:5:B:G:H4'	6	104.34
(1,401)	1:250:A:ILE:CA	1:250:A:ILE:CG2	1:250:A:ILE:CG1	1:250:A:ILE:HB	1	104.34
(1,401)	1:250:A:ILE:CA	1:250:A:ILE:CG2	1:250:A:ILE:CG1	1:250:A:ILE:HB	8	104.34
(1,401)	1:250:A:ILE:CA	1:250:A:ILE:CG2	1:250:A:ILE:CG1	1:250:A:ILE:HB	17	104.34
(1,467)	2:3:B:G:C3'	2:3:B:G:C5'	2:3:B:G:O4'	2:3:B:G:H4'	15	104.33
(1,385)	1:243:A:LEU:CB	1:243:A:LEU:CD1	1:243:A:LEU:CD2	1:243:A:LEU:HG	10	104.33
(1,482)	2:6:B:A:C3'	2:6:B:A:C5'	2:6:B:A:O4'	2:6:B:A:H4'	7	104.31
(1,401)	1:250:A:ILE:CA	1:250:A:ILE:CG2	1:250:A:ILE:CG1	1:250:A:ILE:HB	11	104.31
(1,467)	2:3:B:G:C3'	2:3:B:G:C5'	2:3:B:G:O4'	2:3:B:G:H4'	20	104.29
(1,401)	1:250:A:ILE:CA	1:250:A:ILE:CG2	1:250:A:ILE:CG1	1:250:A:ILE:HB	20	104.28
(1,401)	1:250:A:ILE:CA	1:250:A:ILE:CG2	1:250:A:ILE:CG1	1:250:A:ILE:HB	16	104.27
(1,467)	2:3:B:G:C3'	2:3:B:G:C5'	2:3:B:G:O4'	2:3:B:G:H4'	10	104.25
(1,385)	1:243:A:LEU:CB	1:243:A:LEU:CD1	1:243:A:LEU:CD2	1:243:A:LEU:HG	7	104.23

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,401)	1:250:A:ILE:CA	1:250:A:ILE:CG2	1:250:A:ILE:CG1	1:250:A:ILE:HB	13	104.22
(1,401)	1:250:A:ILE:CA	1:250:A:ILE:CG2	1:250:A:ILE:CG1	1:250:A:ILE:HB	10	104.21
(1,401)	1:250:A:ILE:CA	1:250:A:ILE:CG2	1:250:A:ILE:CG1	1:250:A:ILE:HB	6	104.2
(1,401)	1:250:A:ILE:CA	1:250:A:ILE:CG2	1:250:A:ILE:CG1	1:250:A:ILE:HB	15	104.2
(1,385)	1:243:A:LEU:CB	1:243:A:LEU:CD1	1:243:A:LEU:CD2	1:243:A:LEU:HG	2	104.2
(1,401)	1:250:A:ILE:CA	1:250:A:ILE:CG2	1:250:A:ILE:CG1	1:250:A:ILE:HB	14	104.19
(1,484)	2:7:B:A:C2'	2:7:B:A:O4'	2:7:B:A:N9	2:7:B:A:H1'	15	104.16
(1,401)	1:250:A:ILE:CA	1:250:A:ILE:CG2	1:250:A:ILE:CG1	1:250:A:ILE:HB	4	104.16
(1,401)	1:250:A:ILE:CA	1:250:A:ILE:CG2	1:250:A:ILE:CG1	1:250:A:ILE:HB	5	104.16
(1,401)	1:250:A:ILE:CA	1:250:A:ILE:CG2	1:250:A:ILE:CG1	1:250:A:ILE:HB	9	104.16
(1,459)	2:2:B:U:C2'	2:2:B:U:O4'	2:2:B:U:N1	2:2:B:U:H1'	15	104.14
(1,401)	1:250:A:ILE:CA	1:250:A:ILE:CG2	1:250:A:ILE:CG1	1:250:A:ILE:HB	2	104.14
(1,401)	1:250:A:ILE:CA	1:250:A:ILE:CG2	1:250:A:ILE:CG1	1:250:A:ILE:HB	19	104.14
(1,401)	1:250:A:ILE:CA	1:250:A:ILE:CG2	1:250:A:ILE:CG1	1:250:A:ILE:HB	3	104.13
(1,401)	1:250:A:ILE:CA	1:250:A:ILE:CG2	1:250:A:ILE:CG1	1:250:A:ILE:HB	12	104.13
(1,482)	2:6:B:A:C3'	2:6:B:A:C5'	2:6:B:A:O4'	2:6:B:A:H4'	13	104.12
(1,484)	2:7:B:A:C2'	2:7:B:A:O4'	2:7:B:A:N9	2:7:B:A:H1'	8	104.11
(1,467)	2:3:B:G:C3'	2:3:B:G:C5'	2:3:B:G:O4'	2:3:B:G:H4'	2	104.08
(1,469)	2:4:B:U:C2'	2:4:B:U:O4'	2:4:B:U:N1	2:4:B:U:H1'	17	104.07
(1,484)	2:7:B:A:C2'	2:7:B:A:O4'	2:7:B:A:N9	2:7:B:A:H1'	6	104.06
(1,469)	2:4:B:U:C2'	2:4:B:U:O4'	2:4:B:U:N1	2:4:B:U:H1'	9	104.01
(1,462)	2:2:B:U:C3'	2:2:B:U:C5'	2:2:B:U:O4'	2:2:B:U:H4'	10	103.99
(1,385)	1:243:A:LEU:CB	1:243:A:LEU:CD1	1:243:A:LEU:CD2	1:243:A:LEU:HG	13	103.99
(1,363)	1:233:A:THR:CA	1:233:A:THR:CG2	1:233:A:THR:OG1	1:233:A:THR:HB	16	103.99
(1,462)	2:2:B:U:C3'	2:2:B:U:C5'	2:2:B:U:O4'	2:2:B:U:H4'	4	103.97
(1,484)	2:7:B:A:C2'	2:7:B:A:O4'	2:7:B:A:N9	2:7:B:A:H1'	13	103.95
(1,469)	2:4:B:U:C2'	2:4:B:U:O4'	2:4:B:U:N1	2:4:B:U:H1'	16	103.94
(1,509)	2:12:B:U:C2'	2:12:B:U:O4'	2:12:B:U:N1	2:12:B:U:H1'	10	103.93
(1,469)	2:4:B:U:C2'	2:4:B:U:O4'	2:4:B:U:N1	2:4:B:U:H1'	4	103.9
(1,459)	2:2:B:U:C2'	2:2:B:U:O4'	2:2:B:U:N1	2:2:B:U:H1'	1	103.9
(1,459)	2:2:B:U:C2'	2:2:B:U:O4'	2:2:B:U:N1	2:2:B:U:H1'	7	103.9
(1,401)	1:250:A:ILE:CA	1:250:A:ILE:CG2	1:250:A:ILE:CG1	1:250:A:ILE:HB	18	103.9
(1,385)	1:243:A:LEU:CB	1:243:A:LEU:CD1	1:243:A:LEU:CD2	1:243:A:LEU:HG	19	103.9
(1,484)	2:7:B:A:C2'	2:7:B:A:O4'	2:7:B:A:N9	2:7:B:A:H1'	7	103.88
(1,385)	1:243:A:LEU:CB	1:243:A:LEU:CD1	1:243:A:LEU:CD2	1:243:A:LEU:HG	17	103.88
(1,509)	2:12:B:U:C2'	2:12:B:U:O4'	2:12:B:U:N1	2:12:B:U:H1'	4	103.87
(1,482)	2:6:B:A:C3'	2:6:B:A:C5'	2:6:B:A:O4'	2:6:B:A:H4'	14	103.87
(1,467)	2:3:B:G:C3'	2:3:B:G:C5'	2:3:B:G:O4'	2:3:B:G:H4'	13	103.87
(1,385)	1:243:A:LEU:CB	1:243:A:LEU:CD1	1:243:A:LEU:CD2	1:243:A:LEU:HG	16	103.87
(1,509)	2:12:B:U:C2'	2:12:B:U:O4'	2:12:B:U:N1	2:12:B:U:H1'	13	103.81
(1,477)	2:5:B:G:C3'	2:5:B:G:C5'	2:5:B:G:O4'	2:5:B:G:H4'	7	103.81
(1,482)	2:6:B:A:C3'	2:6:B:A:C5'	2:6:B:A:O4'	2:6:B:A:H4'	8	103.8
(1,469)	2:4:B:U:C2'	2:4:B:U:O4'	2:4:B:U:N1	2:4:B:U:H1'	12	103.8
(1,469)	2:4:B:U:C2'	2:4:B:U:O4'	2:4:B:U:N1	2:4:B:U:H1'	15	103.8
(1,385)	1:243:A:LEU:CB	1:243:A:LEU:CD1	1:243:A:LEU:CD2	1:243:A:LEU:HG	9	103.76
(1,385)	1:243:A:LEU:CB	1:243:A:LEU:CD1	1:243:A:LEU:CD2	1:243:A:LEU:HG	14	103.76
(1,363)	1:233:A:THR:CA	1:233:A:THR:CG2	1:233:A:THR:OG1	1:233:A:THR:HB	6	103.76
(1,361)	1:232:A:VAL:CA	1:232:A:VAL:CG1	1:232:A:VAL:CG2	1:232:A:VAL:HB	17	103.76
(1,361)	1:232:A:VAL:CA	1:232:A:VAL:CG1	1:232:A:VAL:CG2	1:232:A:VAL:HB	16	103.75
(1,469)	2:4:B:U:C2'	2:4:B:U:O4'	2:4:B:U:N1	2:4:B:U:H1'	5	103.74
(1,462)	2:2:B:U:C3'	2:2:B:U:C5'	2:2:B:U:O4'	2:2:B:U:H4'	1	103.74

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,363)	1:233:A:THR:CA	1:233:A:THR:CG2	1:233:A:THR:OG1	1:233:A:THR:HB	4	103.73
(1,385)	1:243:A:LEU:CB	1:243:A:LEU:CD1	1:243:A:LEU:CD2	1:243:A:LEU:HG	4	103.72
(1,469)	2:4:B:U:C2'	2:4:B:U:O4'	2:4:B:U:N1	2:4:B:U:H1'	11	103.71
(1,484)	2:7:B:A:C2'	2:7:B:A:O4'	2:7:B:A:N9	2:7:B:A:H1'	14	103.7
(1,363)	1:233:A:THR:CA	1:233:A:THR:CG2	1:233:A:THR:OG1	1:233:A:THR:HB	2	103.7
(1,363)	1:233:A:THR:CA	1:233:A:THR:CG2	1:233:A:THR:OG1	1:233:A:THR:HB	20	103.69
(1,487)	2:7:B:A:C3'	2:7:B:A:C5'	2:7:B:A:O4'	2:7:B:A:H4'	20	103.68
(1,477)	2:5:B:G:C3'	2:5:B:G:C5'	2:5:B:G:O4'	2:5:B:G:H4'	11	103.68
(1,467)	2:3:B:G:C3'	2:3:B:G:C5'	2:3:B:G:O4'	2:3:B:G:H4'	1	103.67
(1,363)	1:233:A:THR:CA	1:233:A:THR:CG2	1:233:A:THR:OG1	1:233:A:THR:HB	3	103.67
(1,363)	1:233:A:THR:CA	1:233:A:THR:CG2	1:233:A:THR:OG1	1:233:A:THR:HB	11	103.67
(1,467)	2:3:B:G:C3'	2:3:B:G:C5'	2:3:B:G:O4'	2:3:B:G:H4'	7	103.66
(1,462)	2:2:B:U:C3'	2:2:B:U:C5'	2:2:B:U:O4'	2:2:B:U:H4'	20	103.66
(1,457)	2:1:B:G:C3'	2:1:B:G:C5'	2:1:B:G:O4'	2:1:B:G:H4'	11	103.66
(1,363)	1:233:A:THR:CA	1:233:A:THR:CG2	1:233:A:THR:OG1	1:233:A:THR:HB	17	103.65
(1,509)	2:12:B:U:C2'	2:12:B:U:O4'	2:12:B:U:N1	2:12:B:U:H1'	8	103.64
(1,385)	1:243:A:LEU:CB	1:243:A:LEU:CD1	1:243:A:LEU:CD2	1:243:A:LEU:HG	15	103.64
(1,363)	1:233:A:THR:CA	1:233:A:THR:CG2	1:233:A:THR:OG1	1:233:A:THR:HB	14	103.64
(1,361)	1:232:A:VAL:CA	1:232:A:VAL:CG1	1:232:A:VAL:CG2	1:232:A:VAL:HB	13	103.64
(1,494)	2:9:B:G:C2'	2:9:B:G:O4'	2:9:B:G:N9	2:9:B:G:H1'	20	103.63
(1,467)	2:3:B:G:C3'	2:3:B:G:C5'	2:3:B:G:O4'	2:3:B:G:H4'	4	103.63
(1,363)	1:233:A:THR:CA	1:233:A:THR:CG2	1:233:A:THR:OG1	1:233:A:THR:HB	13	103.63
(1,385)	1:243:A:LEU:CB	1:243:A:LEU:CD1	1:243:A:LEU:CD2	1:243:A:LEU:HG	11	103.62
(1,363)	1:233:A:THR:CA	1:233:A:THR:CG2	1:233:A:THR:OG1	1:233:A:THR:HB	19	103.62
(1,361)	1:232:A:VAL:CA	1:232:A:VAL:CG1	1:232:A:VAL:CG2	1:232:A:VAL:HB	7	103.61
(1,469)	2:4:B:U:C2'	2:4:B:U:O4'	2:4:B:U:N1	2:4:B:U:H1'	13	103.6
(1,462)	2:2:B:U:C3'	2:2:B:U:C5'	2:2:B:U:O4'	2:2:B:U:H4'	13	103.59
(1,509)	2:12:B:U:C2'	2:12:B:U:O4'	2:12:B:U:N1	2:12:B:U:H1'	3	103.57
(1,469)	2:4:B:U:C2'	2:4:B:U:O4'	2:4:B:U:N1	2:4:B:U:H1'	18	103.57
(1,385)	1:243:A:LEU:CB	1:243:A:LEU:CD1	1:243:A:LEU:CD2	1:243:A:LEU:HG	8	103.57
(1,363)	1:233:A:THR:CA	1:233:A:THR:CG2	1:233:A:THR:OG1	1:233:A:THR:HB	1	103.57
(1,363)	1:233:A:THR:CA	1:233:A:THR:CG2	1:233:A:THR:OG1	1:233:A:THR:HB	15	103.57
(1,509)	2:12:B:U:C2'	2:12:B:U:O4'	2:12:B:U:N1	2:12:B:U:H1'	17	103.56
(1,462)	2:2:B:U:C3'	2:2:B:U:C5'	2:2:B:U:O4'	2:2:B:U:H4'	7	103.55
(1,363)	1:233:A:THR:CA	1:233:A:THR:CG2	1:233:A:THR:OG1	1:233:A:THR:HB	7	103.55
(1,457)	2:1:B:G:C3'	2:1:B:G:C5'	2:1:B:G:O4'	2:1:B:G:H4'	8	103.54
(1,363)	1:233:A:THR:CA	1:233:A:THR:CG2	1:233:A:THR:OG1	1:233:A:THR:HB	8	103.53
(1,457)	2:1:B:G:C3'	2:1:B:G:C5'	2:1:B:G:O4'	2:1:B:G:H4'	6	103.52
(1,504)	2:11:B:A:C2'	2:11:B:A:O4'	2:11:B:A:N9	2:11:B:A:H1'	10	103.51
(1,509)	2:12:B:U:C2'	2:12:B:U:O4'	2:12:B:U:N1	2:12:B:U:H1'	5	103.49
(1,509)	2:12:B:U:C2'	2:12:B:U:O4'	2:12:B:U:N1	2:12:B:U:H1'	11	103.49
(1,487)	2:7:B:A:C3'	2:7:B:A:C5'	2:7:B:A:O4'	2:7:B:A:H4'	3	103.49
(1,361)	1:232:A:VAL:CA	1:232:A:VAL:CG1	1:232:A:VAL:CG2	1:232:A:VAL:HB	9	103.49
(1,487)	2:7:B:A:C3'	2:7:B:A:C5'	2:7:B:A:O4'	2:7:B:A:H4'	1	103.48
(1,482)	2:6:B:A:C3'	2:6:B:A:C5'	2:6:B:A:O4'	2:6:B:A:H4'	12	103.47
(1,363)	1:233:A:THR:CA	1:233:A:THR:CG2	1:233:A:THR:OG1	1:233:A:THR:HB	18	103.47
(1,512)	2:12:B:U:C3'	2:12:B:U:C5'	2:12:B:U:O4'	2:12:B:U:H4'	16	103.46
(1,507)	2:11:B:A:C3'	2:11:B:A:C5'	2:11:B:A:O4'	2:11:B:A:H4'	15	103.45
(1,484)	2:7:B:A:C2'	2:7:B:A:O4'	2:7:B:A:N9	2:7:B:A:H1'	17	103.45
(1,469)	2:4:B:U:C2'	2:4:B:U:O4'	2:4:B:U:N1	2:4:B:U:H1'	19	103.45
(1,502)	2:10:B:A:C3'	2:10:B:A:C5'	2:10:B:A:O4'	2:10:B:A:H4'	18	103.44

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,462)	2:2:B:U:C3'	2:2:B:U:C5'	2:2:B:U:O4'	2:2:B:U:H4'	2	103.44
(1,479)	2:6:B:A:C2'	2:6:B:A:O4'	2:6:B:A:N9	2:6:B:A:H1'	3	103.43
(1,459)	2:2:B:U:C2'	2:2:B:U:O4'	2:2:B:U:N1	2:2:B:U:H1'	10	103.43
(1,363)	1:233:A:THR:CA	1:233:A:THR:CG2	1:233:A:THR:OG1	1:233:A:THR:HB	12	103.43
(1,512)	2:12:B:U:C3'	2:12:B:U:C5'	2:12:B:U:O4'	2:12:B:U:H4'	3	103.42
(1,512)	2:12:B:U:C3'	2:12:B:U:C5'	2:12:B:U:O4'	2:12:B:U:H4'	6	103.42
(1,469)	2:4:B:U:C2'	2:4:B:U:O4'	2:4:B:U:N1	2:4:B:U:H1'	20	103.42
(1,459)	2:2:B:U:C2'	2:2:B:U:O4'	2:2:B:U:N1	2:2:B:U:H1'	20	103.42
(1,469)	2:4:B:U:C2'	2:4:B:U:O4'	2:4:B:U:N1	2:4:B:U:H1'	6	103.41
(1,462)	2:2:B:U:C3'	2:2:B:U:C5'	2:2:B:U:O4'	2:2:B:U:H4'	15	103.41
(1,509)	2:12:B:U:C2'	2:12:B:U:O4'	2:12:B:U:N1	2:12:B:U:H1'	12	103.4
(1,507)	2:11:B:A:C3'	2:11:B:A:C5'	2:11:B:A:O4'	2:11:B:A:H4'	14	103.4
(1,363)	1:233:A:THR:CA	1:233:A:THR:CG2	1:233:A:THR:OG1	1:233:A:THR:HB	10	103.4
(1,509)	2:12:B:U:C2'	2:12:B:U:O4'	2:12:B:U:N1	2:12:B:U:H1'	6	103.38
(1,477)	2:5:B:G:C3'	2:5:B:G:C5'	2:5:B:G:O4'	2:5:B:G:H4'	12	103.38
(1,457)	2:1:B:G:C3'	2:1:B:G:C5'	2:1:B:G:O4'	2:1:B:G:H4'	12	103.38
(1,484)	2:7:B:A:C2'	2:7:B:A:O4'	2:7:B:A:N9	2:7:B:A:H1'	4	103.37
(1,512)	2:12:B:U:C3'	2:12:B:U:C5'	2:12:B:U:O4'	2:12:B:U:H4'	11	103.36
(1,507)	2:11:B:A:C3'	2:11:B:A:C5'	2:11:B:A:O4'	2:11:B:A:H4'	1	103.36
(1,509)	2:12:B:U:C2'	2:12:B:U:O4'	2:12:B:U:N1	2:12:B:U:H1'	2	103.35
(1,494)	2:9:B:G:C2'	2:9:B:G:O4'	2:9:B:G:N9	2:9:B:G:H1'	17	103.35
(1,469)	2:4:B:U:C2'	2:4:B:U:O4'	2:4:B:U:N1	2:4:B:U:H1'	8	103.35
(1,457)	2:1:B:G:C3'	2:1:B:G:C5'	2:1:B:G:O4'	2:1:B:G:H4'	5	103.35
(1,512)	2:12:B:U:C3'	2:12:B:U:C5'	2:12:B:U:O4'	2:12:B:U:H4'	17	103.34
(1,469)	2:4:B:U:C2'	2:4:B:U:O4'	2:4:B:U:N1	2:4:B:U:H1'	3	103.34
(1,363)	1:233:A:THR:CA	1:233:A:THR:CG2	1:233:A:THR:OG1	1:233:A:THR:HB	5	103.34
(1,509)	2:12:B:U:C2'	2:12:B:U:O4'	2:12:B:U:N1	2:12:B:U:H1'	7	103.33
(1,484)	2:7:B:A:C2'	2:7:B:A:O4'	2:7:B:A:N9	2:7:B:A:H1'	19	103.33
(1,507)	2:11:B:A:C3'	2:11:B:A:C5'	2:11:B:A:O4'	2:11:B:A:H4'	20	103.32
(1,504)	2:11:B:A:C2'	2:11:B:A:O4'	2:11:B:A:N9	2:11:B:A:H1'	2	103.32
(1,457)	2:1:B:G:C3'	2:1:B:G:C5'	2:1:B:G:O4'	2:1:B:G:H4'	17	103.32
(1,512)	2:12:B:U:C3'	2:12:B:U:C5'	2:12:B:U:O4'	2:12:B:U:H4'	4	103.31
(1,509)	2:12:B:U:C2'	2:12:B:U:O4'	2:12:B:U:N1	2:12:B:U:H1'	16	103.31
(1,499)	2:10:B:A:C2'	2:10:B:A:O4'	2:10:B:A:N9	2:10:B:A:H1'	5	103.31
(1,479)	2:6:B:A:C2'	2:6:B:A:O4'	2:6:B:A:N9	2:6:B:A:H1'	14	103.31
(1,512)	2:12:B:U:C3'	2:12:B:U:C5'	2:12:B:U:O4'	2:12:B:U:H4'	13	103.3
(1,507)	2:11:B:A:C3'	2:11:B:A:C5'	2:11:B:A:O4'	2:11:B:A:H4'	19	103.3
(1,479)	2:6:B:A:C2'	2:6:B:A:O4'	2:6:B:A:N9	2:6:B:A:H1'	20	103.29
(1,472)	2:4:B:U:C3'	2:4:B:U:C5'	2:4:B:U:O4'	2:4:B:U:H4'	2	103.28
(1,509)	2:12:B:U:C2'	2:12:B:U:O4'	2:12:B:U:N1	2:12:B:U:H1'	14	103.27
(1,487)	2:7:B:A:C3'	2:7:B:A:C5'	2:7:B:A:O4'	2:7:B:A:H4'	2	103.25
(1,363)	1:233:A:THR:CA	1:233:A:THR:CG2	1:233:A:THR:OG1	1:233:A:THR:HB	9	103.25
(1,507)	2:11:B:A:C3'	2:11:B:A:C5'	2:11:B:A:O4'	2:11:B:A:H4'	12	103.24
(1,492)	2:8:B:U:C3'	2:8:B:U:C5'	2:8:B:U:O4'	2:8:B:U:H4'	7	103.24
(1,479)	2:6:B:A:C2'	2:6:B:A:O4'	2:6:B:A:N9	2:6:B:A:H1'	12	103.24
(1,469)	2:4:B:U:C2'	2:4:B:U:O4'	2:4:B:U:N1	2:4:B:U:H1'	7	103.24
(1,482)	2:6:B:A:C3'	2:6:B:A:C5'	2:6:B:A:O4'	2:6:B:A:H4'	5	103.23
(1,457)	2:1:B:G:C3'	2:1:B:G:C5'	2:1:B:G:O4'	2:1:B:G:H4'	9	103.23
(1,502)	2:10:B:A:C3'	2:10:B:A:C5'	2:10:B:A:O4'	2:10:B:A:H4'	6	103.22
(1,504)	2:11:B:A:C2'	2:11:B:A:O4'	2:11:B:A:N9	2:11:B:A:H1'	3	103.21
(1,482)	2:6:B:A:C3'	2:6:B:A:C5'	2:6:B:A:O4'	2:6:B:A:H4'	16	103.21

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,479)	2:6:B:A:C2'	2:6:B:A:O4'	2:6:B:A:N9	2:6:B:A:H1'	1	103.21
(1,457)	2:1:B:G:C3'	2:1:B:G:C5'	2:1:B:G:O4'	2:1:B:G:H4'	13	103.21
(1,512)	2:12:B:U:C3'	2:12:B:U:C5'	2:12:B:U:O4'	2:12:B:U:H4'	8	103.2
(1,509)	2:12:B:U:C2'	2:12:B:U:O4'	2:12:B:U:N1	2:12:B:U:H1'	15	103.2
(1,512)	2:12:B:U:C3'	2:12:B:U:C5'	2:12:B:U:O4'	2:12:B:U:H4'	2	103.19
(1,507)	2:11:B:A:C3'	2:11:B:A:C5'	2:11:B:A:O4'	2:11:B:A:H4'	9	103.19
(1,484)	2:7:B:A:C2'	2:7:B:A:O4'	2:7:B:A:N9	2:7:B:A:H1'	16	103.19
(1,512)	2:12:B:U:C3'	2:12:B:U:C5'	2:12:B:U:O4'	2:12:B:U:H4'	7	103.18
(1,484)	2:7:B:A:C2'	2:7:B:A:O4'	2:7:B:A:N9	2:7:B:A:H1'	12	103.18
(1,479)	2:6:B:A:C2'	2:6:B:A:O4'	2:6:B:A:N9	2:6:B:A:H1'	17	103.18
(1,469)	2:4:B:U:C2'	2:4:B:U:O4'	2:4:B:U:N1	2:4:B:U:H1'	10	103.18
(1,504)	2:11:B:A:C2'	2:11:B:A:O4'	2:11:B:A:N9	2:11:B:A:H1'	16	103.17
(1,499)	2:10:B:A:C2'	2:10:B:A:O4'	2:10:B:A:N9	2:10:B:A:H1'	19	103.17
(1,494)	2:9:B:G:C2'	2:9:B:G:O4'	2:9:B:G:N9	2:9:B:G:H1'	15	103.17
(1,477)	2:5:B:G:C3'	2:5:B:G:C5'	2:5:B:G:O4'	2:5:B:G:H4'	2	103.16
(1,457)	2:1:B:G:C3'	2:1:B:G:C5'	2:1:B:G:O4'	2:1:B:G:H4'	15	103.16
(1,512)	2:12:B:U:C3'	2:12:B:U:C5'	2:12:B:U:O4'	2:12:B:U:H4'	5	103.15
(1,484)	2:7:B:A:C2'	2:7:B:A:O4'	2:7:B:A:N9	2:7:B:A:H1'	5	103.15
(1,457)	2:1:B:G:C3'	2:1:B:G:C5'	2:1:B:G:O4'	2:1:B:G:H4'	7	103.15
(1,502)	2:10:B:A:C3'	2:10:B:A:C5'	2:10:B:A:O4'	2:10:B:A:H4'	11	103.14
(1,469)	2:4:B:U:C2'	2:4:B:U:O4'	2:4:B:U:N1	2:4:B:U:H1'	1	103.14
(1,469)	2:4:B:U:C2'	2:4:B:U:O4'	2:4:B:U:N1	2:4:B:U:H1'	2	103.12
(1,457)	2:1:B:G:C3'	2:1:B:G:C5'	2:1:B:G:O4'	2:1:B:G:H4'	1	103.12
(1,457)	2:1:B:G:C3'	2:1:B:G:C5'	2:1:B:G:O4'	2:1:B:G:H4'	4	103.12
(1,504)	2:11:B:A:C2'	2:11:B:A:O4'	2:11:B:A:N9	2:11:B:A:H1'	11	103.11
(1,497)	2:9:B:G:C3'	2:9:B:G:C5'	2:9:B:G:O4'	2:9:B:G:H4'	12	103.11
(1,479)	2:6:B:A:C2'	2:6:B:A:O4'	2:6:B:A:N9	2:6:B:A:H1'	2	103.1
(1,457)	2:1:B:G:C3'	2:1:B:G:C5'	2:1:B:G:O4'	2:1:B:G:H4'	2	103.1
(1,509)	2:12:B:U:C2'	2:12:B:U:O4'	2:12:B:U:N1	2:12:B:U:H1'	19	103.09
(1,469)	2:4:B:U:C2'	2:4:B:U:O4'	2:4:B:U:N1	2:4:B:U:H1'	14	103.09
(1,457)	2:1:B:G:C3'	2:1:B:G:C5'	2:1:B:G:O4'	2:1:B:G:H4'	10	103.09
(1,509)	2:12:B:U:C2'	2:12:B:U:O4'	2:12:B:U:N1	2:12:B:U:H1'	1	103.08
(1,484)	2:7:B:A:C2'	2:7:B:A:O4'	2:7:B:A:N9	2:7:B:A:H1'	20	103.08
(1,472)	2:4:B:U:C3'	2:4:B:U:C5'	2:4:B:U:O4'	2:4:B:U:H4'	6	103.07
(1,477)	2:5:B:G:C3'	2:5:B:G:C5'	2:5:B:G:O4'	2:5:B:G:H4'	14	103.05
(1,464)	2:3:B:G:C2'	2:3:B:G:O4'	2:3:B:G:N9	2:3:B:G:H1'	4	103.05
(1,512)	2:12:B:U:C3'	2:12:B:U:C5'	2:12:B:U:O4'	2:12:B:U:H4'	12	103.04
(1,509)	2:12:B:U:C2'	2:12:B:U:O4'	2:12:B:U:N1	2:12:B:U:H1'	9	103.04
(1,464)	2:3:B:G:C2'	2:3:B:G:O4'	2:3:B:G:N9	2:3:B:G:H1'	7	103.04
(1,509)	2:12:B:U:C2'	2:12:B:U:O4'	2:12:B:U:N1	2:12:B:U:H1'	18	103.02
(1,507)	2:11:B:A:C3'	2:11:B:A:C5'	2:11:B:A:O4'	2:11:B:A:H4'	13	103.01
(1,484)	2:7:B:A:C2'	2:7:B:A:O4'	2:7:B:A:N9	2:7:B:A:H1'	10	103.01
(1,457)	2:1:B:G:C3'	2:1:B:G:C5'	2:1:B:G:O4'	2:1:B:G:H4'	19	103.01
(1,504)	2:11:B:A:C2'	2:11:B:A:O4'	2:11:B:A:N9	2:11:B:A:H1'	7	103.0
(1,499)	2:10:B:A:C2'	2:10:B:A:O4'	2:10:B:A:N9	2:10:B:A:H1'	14	102.99
(1,487)	2:7:B:A:C3'	2:7:B:A:C5'	2:7:B:A:O4'	2:7:B:A:H4'	10	102.99
(1,484)	2:7:B:A:C2'	2:7:B:A:O4'	2:7:B:A:N9	2:7:B:A:H1'	3	102.99
(1,477)	2:5:B:G:C3'	2:5:B:G:C5'	2:5:B:G:O4'	2:5:B:G:H4'	13	102.99
(1,464)	2:3:B:G:C2'	2:3:B:G:O4'	2:3:B:G:N9	2:3:B:G:H1'	1	102.99
(1,457)	2:1:B:G:C3'	2:1:B:G:C5'	2:1:B:G:O4'	2:1:B:G:H4'	20	102.99
(1,477)	2:5:B:G:C3'	2:5:B:G:C5'	2:5:B:G:O4'	2:5:B:G:H4'	1	102.98

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,457)	2:1:B:G:C3'	2:1:B:G:C5'	2:1:B:G:O4'	2:1:B:G:H4'	14	102.98
(1,457)	2:1:B:G:C3'	2:1:B:G:C5'	2:1:B:G:O4'	2:1:B:G:H4'	3	102.97
(1,512)	2:12:B:U:C3'	2:12:B:U:C5'	2:12:B:U:O4'	2:12:B:U:H4'	18	102.96
(1,482)	2:6:B:A:C3'	2:6:B:A:C5'	2:6:B:A:O4'	2:6:B:A:H4'	19	102.96
(1,457)	2:1:B:G:C3'	2:1:B:G:C5'	2:1:B:G:O4'	2:1:B:G:H4'	16	102.96
(1,499)	2:10:B:A:C2'	2:10:B:A:O4'	2:10:B:A:N9	2:10:B:A:H1'	4	102.95
(1,474)	2:5:B:G:C2'	2:5:B:G:O4'	2:5:B:G:N9	2:5:B:G:H1'	3	102.95
(1,457)	2:1:B:G:C3'	2:1:B:G:C5'	2:1:B:G:O4'	2:1:B:G:H4'	18	102.95
(1,512)	2:12:B:U:C3'	2:12:B:U:C5'	2:12:B:U:O4'	2:12:B:U:H4'	1	102.94
(1,512)	2:12:B:U:C3'	2:12:B:U:C5'	2:12:B:U:O4'	2:12:B:U:H4'	19	102.94
(1,502)	2:10:B:A:C3'	2:10:B:A:C5'	2:10:B:A:O4'	2:10:B:A:H4'	7	102.94
(1,494)	2:9:B:G:C2'	2:9:B:G:O4'	2:9:B:G:N9	2:9:B:G:H1'	8	102.94
(1,499)	2:10:B:A:C2'	2:10:B:A:O4'	2:10:B:A:N9	2:10:B:A:H1'	6	102.93
(1,512)	2:12:B:U:C3'	2:12:B:U:C5'	2:12:B:U:O4'	2:12:B:U:H4'	14	102.92
(1,479)	2:6:B:A:C2'	2:6:B:A:O4'	2:6:B:A:N9	2:6:B:A:H1'	11	102.91
(1,482)	2:6:B:A:C3'	2:6:B:A:C5'	2:6:B:A:O4'	2:6:B:A:H4'	4	102.9
(1,479)	2:6:B:A:C2'	2:6:B:A:O4'	2:6:B:A:N9	2:6:B:A:H1'	9	102.9
(1,512)	2:12:B:U:C3'	2:12:B:U:C5'	2:12:B:U:O4'	2:12:B:U:H4'	10	102.88
(1,507)	2:11:B:A:C3'	2:11:B:A:C5'	2:11:B:A:O4'	2:11:B:A:H4'	18	102.85
(1,502)	2:10:B:A:C3'	2:10:B:A:C5'	2:10:B:A:O4'	2:10:B:A:H4'	16	102.85
(1,492)	2:8:B:U:C3'	2:8:B:U:C5'	2:8:B:U:O4'	2:8:B:U:H4'	6	102.85
(1,482)	2:6:B:A:C3'	2:6:B:A:C5'	2:6:B:A:O4'	2:6:B:A:H4'	20	102.85
(1,512)	2:12:B:U:C3'	2:12:B:U:C5'	2:12:B:U:O4'	2:12:B:U:H4'	15	102.84
(1,502)	2:10:B:A:C3'	2:10:B:A:C5'	2:10:B:A:O4'	2:10:B:A:H4'	8	102.83
(1,477)	2:5:B:G:C3'	2:5:B:G:C5'	2:5:B:G:O4'	2:5:B:G:H4'	10	102.83
(1,507)	2:11:B:A:C3'	2:11:B:A:C5'	2:11:B:A:O4'	2:11:B:A:H4'	8	102.82
(1,507)	2:11:B:A:C3'	2:11:B:A:C5'	2:11:B:A:O4'	2:11:B:A:H4'	17	102.82
(1,482)	2:6:B:A:C3'	2:6:B:A:C5'	2:6:B:A:O4'	2:6:B:A:H4'	15	102.81
(1,512)	2:12:B:U:C3'	2:12:B:U:C5'	2:12:B:U:O4'	2:12:B:U:H4'	9	102.8
(1,507)	2:11:B:A:C3'	2:11:B:A:C5'	2:11:B:A:O4'	2:11:B:A:H4'	5	102.79
(1,479)	2:6:B:A:C2'	2:6:B:A:O4'	2:6:B:A:N9	2:6:B:A:H1'	5	102.79
(1,459)	2:2:B:U:C2'	2:2:B:U:O4'	2:2:B:U:N1	2:2:B:U:H1'	13	102.79
(1,499)	2:10:B:A:C2'	2:10:B:A:O4'	2:10:B:A:N9	2:10:B:A:H1'	9	102.78
(1,502)	2:10:B:A:C3'	2:10:B:A:C5'	2:10:B:A:O4'	2:10:B:A:H4'	10	102.77
(1,474)	2:5:B:G:C2'	2:5:B:G:O4'	2:5:B:G:N9	2:5:B:G:H1'	18	102.76
(1,479)	2:6:B:A:C2'	2:6:B:A:O4'	2:6:B:A:N9	2:6:B:A:H1'	19	102.75
(1,489)	2:8:B:U:C2'	2:8:B:U:O4'	2:8:B:U:N1	2:8:B:U:H1'	5	102.74
(1,497)	2:9:B:G:C3'	2:9:B:G:C5'	2:9:B:G:O4'	2:9:B:G:H4'	5	102.73
(1,479)	2:6:B:A:C2'	2:6:B:A:O4'	2:6:B:A:N9	2:6:B:A:H1'	8	102.73
(1,509)	2:12:B:U:C2'	2:12:B:U:O4'	2:12:B:U:N1	2:12:B:U:H1'	20	102.71
(1,507)	2:11:B:A:C3'	2:11:B:A:C5'	2:11:B:A:O4'	2:11:B:A:H4'	6	102.67
(1,474)	2:5:B:G:C2'	2:5:B:G:O4'	2:5:B:G:N9	2:5:B:G:H1'	15	102.67
(1,479)	2:6:B:A:C2'	2:6:B:A:O4'	2:6:B:A:N9	2:6:B:A:H1'	16	102.66
(1,472)	2:4:B:U:C3'	2:4:B:U:C5'	2:4:B:U:O4'	2:4:B:U:H4'	15	102.66
(1,482)	2:6:B:A:C3'	2:6:B:A:C5'	2:6:B:A:O4'	2:6:B:A:H4'	17	102.65
(1,474)	2:5:B:G:C2'	2:5:B:G:O4'	2:5:B:G:N9	2:5:B:G:H1'	20	102.63
(1,472)	2:4:B:U:C3'	2:4:B:U:C5'	2:4:B:U:O4'	2:4:B:U:H4'	7	102.63
(1,459)	2:2:B:U:C2'	2:2:B:U:O4'	2:2:B:U:N1	2:2:B:U:H1'	4	102.63
(1,489)	2:8:B:U:C2'	2:8:B:U:O4'	2:8:B:U:N1	2:8:B:U:H1'	19	102.62
(1,482)	2:6:B:A:C3'	2:6:B:A:C5'	2:6:B:A:O4'	2:6:B:A:H4'	18	102.62
(1,499)	2:10:B:A:C2'	2:10:B:A:O4'	2:10:B:A:N9	2:10:B:A:H1'	3	102.61

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,499)	2:10:B:A:C2'	2:10:B:A:O4'	2:10:B:A:N9	2:10:B:A:H1'	12	102.6
(1,499)	2:10:B:A:C2'	2:10:B:A:O4'	2:10:B:A:N9	2:10:B:A:H1'	20	102.6
(1,497)	2:9:B:G:C3'	2:9:B:G:C5'	2:9:B:G:O4'	2:9:B:G:H4'	6	102.6
(1,474)	2:5:B:G:C2'	2:5:B:G:O4'	2:5:B:G:N9	2:5:B:G:H1'	9	102.6
(1,459)	2:2:B:U:C2'	2:2:B:U:O4'	2:2:B:U:N1	2:2:B:U:H1'	12	102.6
(1,492)	2:8:B:U:C3'	2:8:B:U:C5'	2:8:B:U:O4'	2:8:B:U:H4'	10	102.59
(1,484)	2:7:B:A:C2'	2:7:B:A:O4'	2:7:B:A:N9	2:7:B:A:H1'	18	102.59
(1,479)	2:6:B:A:C2'	2:6:B:A:O4'	2:6:B:A:N9	2:6:B:A:H1'	13	102.59
(1,507)	2:11:B:A:C3'	2:11:B:A:C5'	2:11:B:A:O4'	2:11:B:A:H4'	4	102.58
(1,474)	2:5:B:G:C2'	2:5:B:G:O4'	2:5:B:G:N9	2:5:B:G:H1'	19	102.58
(1,464)	2:3:B:G:C2'	2:3:B:G:O4'	2:3:B:G:N9	2:3:B:G:H1'	20	102.58
(1,489)	2:8:B:U:C2'	2:8:B:U:O4'	2:8:B:U:N1	2:8:B:U:H1'	4	102.57
(1,484)	2:7:B:A:C2'	2:7:B:A:O4'	2:7:B:A:N9	2:7:B:A:H1'	2	102.57
(1,464)	2:3:B:G:C2'	2:3:B:G:O4'	2:3:B:G:N9	2:3:B:G:H1'	15	102.57
(1,459)	2:2:B:U:C2'	2:2:B:U:O4'	2:2:B:U:N1	2:2:B:U:H1'	2	102.57
(1,487)	2:7:B:A:C3'	2:7:B:A:C5'	2:7:B:A:O4'	2:7:B:A:H4'	18	102.56
(1,479)	2:6:B:A:C2'	2:6:B:A:O4'	2:6:B:A:N9	2:6:B:A:H1'	18	102.56
(1,472)	2:4:B:U:C3'	2:4:B:U:C5'	2:4:B:U:O4'	2:4:B:U:H4'	18	102.56
(1,472)	2:4:B:U:C3'	2:4:B:U:C5'	2:4:B:U:O4'	2:4:B:U:H4'	20	102.56
(1,484)	2:7:B:A:C2'	2:7:B:A:O4'	2:7:B:A:N9	2:7:B:A:H1'	1	102.55
(1,499)	2:10:B:A:C2'	2:10:B:A:O4'	2:10:B:A:N9	2:10:B:A:H1'	2	102.54
(1,499)	2:10:B:A:C2'	2:10:B:A:O4'	2:10:B:A:N9	2:10:B:A:H1'	11	102.54
(1,499)	2:10:B:A:C2'	2:10:B:A:O4'	2:10:B:A:N9	2:10:B:A:H1'	1	102.53
(1,499)	2:10:B:A:C2'	2:10:B:A:O4'	2:10:B:A:N9	2:10:B:A:H1'	17	102.52
(1,504)	2:11:B:A:C2'	2:11:B:A:O4'	2:11:B:A:N9	2:11:B:A:H1'	18	102.51
(1,489)	2:8:B:U:C2'	2:8:B:U:O4'	2:8:B:U:N1	2:8:B:U:H1'	16	102.5
(1,487)	2:7:B:A:C3'	2:7:B:A:C5'	2:7:B:A:O4'	2:7:B:A:H4'	9	102.5
(1,479)	2:6:B:A:C2'	2:6:B:A:O4'	2:6:B:A:N9	2:6:B:A:H1'	6	102.5
(1,499)	2:10:B:A:C2'	2:10:B:A:O4'	2:10:B:A:N9	2:10:B:A:H1'	18	102.49
(1,492)	2:8:B:U:C3'	2:8:B:U:C5'	2:8:B:U:O4'	2:8:B:U:H4'	15	102.49
(1,459)	2:2:B:U:C2'	2:2:B:U:O4'	2:2:B:U:N1	2:2:B:U:H1'	17	102.48
(1,472)	2:4:B:U:C3'	2:4:B:U:C5'	2:4:B:U:O4'	2:4:B:U:H4'	1	102.47
(1,507)	2:11:B:A:C3'	2:11:B:A:C5'	2:11:B:A:O4'	2:11:B:A:H4'	11	102.46
(1,489)	2:8:B:U:C2'	2:8:B:U:O4'	2:8:B:U:N1	2:8:B:U:H1'	1	102.46
(1,472)	2:4:B:U:C3'	2:4:B:U:C5'	2:4:B:U:O4'	2:4:B:U:H4'	14	102.46
(1,502)	2:10:B:A:C3'	2:10:B:A:C5'	2:10:B:A:O4'	2:10:B:A:H4'	14	102.45
(1,487)	2:7:B:A:C3'	2:7:B:A:C5'	2:7:B:A:O4'	2:7:B:A:H4'	11	102.45
(1,502)	2:10:B:A:C3'	2:10:B:A:C5'	2:10:B:A:O4'	2:10:B:A:H4'	17	102.44
(1,459)	2:2:B:U:C2'	2:2:B:U:O4'	2:2:B:U:N1	2:2:B:U:H1'	3	102.44
(1,459)	2:2:B:U:C2'	2:2:B:U:O4'	2:2:B:U:N1	2:2:B:U:H1'	6	102.44
(1,459)	2:2:B:U:C2'	2:2:B:U:O4'	2:2:B:U:N1	2:2:B:U:H1'	18	102.43
(1,504)	2:11:B:A:C2'	2:11:B:A:O4'	2:11:B:A:N9	2:11:B:A:H1'	9	102.41
(1,492)	2:8:B:U:C3'	2:8:B:U:C5'	2:8:B:U:O4'	2:8:B:U:H4'	12	102.41
(1,482)	2:6:B:A:C3'	2:6:B:A:C5'	2:6:B:A:O4'	2:6:B:A:H4'	9	102.41
(1,459)	2:2:B:U:C2'	2:2:B:U:O4'	2:2:B:U:N1	2:2:B:U:H1'	14	102.41
(1,459)	2:2:B:U:C2'	2:2:B:U:O4'	2:2:B:U:N1	2:2:B:U:H1'	19	102.4
(1,497)	2:9:B:G:C3'	2:9:B:G:C5'	2:9:B:G:O4'	2:9:B:G:H4'	11	102.39
(1,472)	2:4:B:U:C3'	2:4:B:U:C5'	2:4:B:U:O4'	2:4:B:U:H4'	3	102.39
(1,492)	2:8:B:U:C3'	2:8:B:U:C5'	2:8:B:U:O4'	2:8:B:U:H4'	1	102.38
(1,467)	2:3:B:G:C3'	2:3:B:G:C5'	2:3:B:G:O4'	2:3:B:G:H4'	16	102.38
(1,497)	2:9:B:G:C3'	2:9:B:G:C5'	2:9:B:G:O4'	2:9:B:G:H4'	7	102.37

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,499)	2:10:B:A:C2'	2:10:B:A:O4'	2:10:B:A:N9	2:10:B:A:H1'	8	102.36
(1,494)	2:9:B:G:C2'	2:9:B:G:O4'	2:9:B:G:N9	2:9:B:G:H1'	16	102.35
(1,492)	2:8:B:U:C3'	2:8:B:U:C5'	2:8:B:U:O4'	2:8:B:U:H4'	13	102.35
(1,479)	2:6:B:A:C2'	2:6:B:A:O4'	2:6:B:A:N9	2:6:B:A:H1'	10	102.35
(1,512)	2:12:B:U:C3'	2:12:B:U:C5'	2:12:B:U:O4'	2:12:B:U:H4'	20	102.34
(1,489)	2:8:B:U:C2'	2:8:B:U:O4'	2:8:B:U:N1	2:8:B:U:H1'	11	102.34
(1,484)	2:7:B:A:C2'	2:7:B:A:O4'	2:7:B:A:N9	2:7:B:A:H1'	9	102.33
(1,482)	2:6:B:A:C3'	2:6:B:A:C5'	2:6:B:A:O4'	2:6:B:A:H4'	3	102.33
(1,459)	2:2:B:U:C2'	2:2:B:U:O4'	2:2:B:U:N1	2:2:B:U:H1'	9	102.33
(1,487)	2:7:B:A:C3'	2:7:B:A:C5'	2:7:B:A:O4'	2:7:B:A:H4'	12	102.32
(1,472)	2:4:B:U:C3'	2:4:B:U:C5'	2:4:B:U:O4'	2:4:B:U:H4'	8	102.32
(1,459)	2:2:B:U:C2'	2:2:B:U:O4'	2:2:B:U:N1	2:2:B:U:H1'	16	102.32
(1,507)	2:11:B:A:C3'	2:11:B:A:C5'	2:11:B:A:O4'	2:11:B:A:H4'	7	102.31
(1,489)	2:8:B:U:C2'	2:8:B:U:O4'	2:8:B:U:N1	2:8:B:U:H1'	17	102.31
(1,474)	2:5:B:G:C2'	2:5:B:G:O4'	2:5:B:G:N9	2:5:B:G:H1'	5	102.31
(1,494)	2:9:B:G:C2'	2:9:B:G:O4'	2:9:B:G:N9	2:9:B:G:H1'	3	102.29
(1,484)	2:7:B:A:C2'	2:7:B:A:O4'	2:7:B:A:N9	2:7:B:A:H1'	11	102.29
(1,479)	2:6:B:A:C2'	2:6:B:A:O4'	2:6:B:A:N9	2:6:B:A:H1'	7	102.29
(1,459)	2:2:B:U:C2'	2:2:B:U:O4'	2:2:B:U:N1	2:2:B:U:H1'	8	102.29
(1,497)	2:9:B:G:C3'	2:9:B:G:C5'	2:9:B:G:O4'	2:9:B:G:H4'	10	102.28
(1,479)	2:6:B:A:C2'	2:6:B:A:O4'	2:6:B:A:N9	2:6:B:A:H1'	4	102.28
(1,504)	2:11:B:A:C2'	2:11:B:A:O4'	2:11:B:A:N9	2:11:B:A:H1'	6	102.27
(1,502)	2:10:B:A:C3'	2:10:B:A:C5'	2:10:B:A:O4'	2:10:B:A:H4'	15	102.27
(1,499)	2:10:B:A:C2'	2:10:B:A:O4'	2:10:B:A:N9	2:10:B:A:H1'	13	102.27
(1,497)	2:9:B:G:C3'	2:9:B:G:C5'	2:9:B:G:O4'	2:9:B:G:H4'	4	102.27
(1,459)	2:2:B:U:C2'	2:2:B:U:O4'	2:2:B:U:N1	2:2:B:U:H1'	11	102.27
(1,489)	2:8:B:U:C2'	2:8:B:U:O4'	2:8:B:U:N1	2:8:B:U:H1'	2	102.26
(1,459)	2:2:B:U:C2'	2:2:B:U:O4'	2:2:B:U:N1	2:2:B:U:H1'	5	102.25
(1,504)	2:11:B:A:C2'	2:11:B:A:O4'	2:11:B:A:N9	2:11:B:A:H1'	1	102.24
(1,504)	2:11:B:A:C2'	2:11:B:A:O4'	2:11:B:A:N9	2:11:B:A:H1'	14	102.23
(1,492)	2:8:B:U:C3'	2:8:B:U:C5'	2:8:B:U:O4'	2:8:B:U:H4'	3	102.23
(1,464)	2:3:B:G:C2'	2:3:B:G:O4'	2:3:B:G:N9	2:3:B:G:H1'	2	102.23
(1,507)	2:11:B:A:C3'	2:11:B:A:C5'	2:11:B:A:O4'	2:11:B:A:H4'	10	102.22
(1,502)	2:10:B:A:C3'	2:10:B:A:C5'	2:10:B:A:O4'	2:10:B:A:H4'	3	102.22
(1,499)	2:10:B:A:C2'	2:10:B:A:O4'	2:10:B:A:N9	2:10:B:A:H1'	16	102.22
(1,497)	2:9:B:G:C3'	2:9:B:G:C5'	2:9:B:G:O4'	2:9:B:G:H4'	17	102.22
(1,494)	2:9:B:G:C2'	2:9:B:G:O4'	2:9:B:G:N9	2:9:B:G:H1'	10	102.21
(1,489)	2:8:B:U:C2'	2:8:B:U:O4'	2:8:B:U:N1	2:8:B:U:H1'	18	102.21
(1,499)	2:10:B:A:C2'	2:10:B:A:O4'	2:10:B:A:N9	2:10:B:A:H1'	15	102.2
(1,464)	2:3:B:G:C2'	2:3:B:G:O4'	2:3:B:G:N9	2:3:B:G:H1'	16	102.2
(1,502)	2:10:B:A:C3'	2:10:B:A:C5'	2:10:B:A:O4'	2:10:B:A:H4'	12	102.19
(1,497)	2:9:B:G:C3'	2:9:B:G:C5'	2:9:B:G:O4'	2:9:B:G:H4'	8	102.18
(1,472)	2:4:B:U:C3'	2:4:B:U:C5'	2:4:B:U:O4'	2:4:B:U:H4'	11	102.18
(1,499)	2:10:B:A:C2'	2:10:B:A:O4'	2:10:B:A:N9	2:10:B:A:H1'	7	102.17
(1,474)	2:5:B:G:C2'	2:5:B:G:O4'	2:5:B:G:N9	2:5:B:G:H1'	4	102.17
(1,504)	2:11:B:A:C2'	2:11:B:A:O4'	2:11:B:A:N9	2:11:B:A:H1'	12	102.15
(1,507)	2:11:B:A:C3'	2:11:B:A:C5'	2:11:B:A:O4'	2:11:B:A:H4'	2	102.14
(1,507)	2:11:B:A:C3'	2:11:B:A:C5'	2:11:B:A:O4'	2:11:B:A:H4'	16	102.12
(1,504)	2:11:B:A:C2'	2:11:B:A:O4'	2:11:B:A:N9	2:11:B:A:H1'	5	102.12
(1,504)	2:11:B:A:C2'	2:11:B:A:O4'	2:11:B:A:N9	2:11:B:A:H1'	8	102.11
(1,472)	2:4:B:U:C3'	2:4:B:U:C5'	2:4:B:U:O4'	2:4:B:U:H4'	10	102.11

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,504)	2:11:B:A:C2'	2:11:B:A:O4'	2:11:B:A:N9	2:11:B:A:H1'	4	102.1
(1,502)	2:10:B:A:C3'	2:10:B:A:C5'	2:10:B:A:O4'	2:10:B:A:H4'	13	102.1
(1,472)	2:4:B:U:C3'	2:4:B:U:C5'	2:4:B:U:O4'	2:4:B:U:H4'	19	102.09
(1,492)	2:8:B:U:C3'	2:8:B:U:C5'	2:8:B:U:O4'	2:8:B:U:H4'	20	102.08
(1,464)	2:3:B:G:C2'	2:3:B:G:O4'	2:3:B:G:N9	2:3:B:G:H1'	8	102.07
(1,489)	2:8:B:U:C2'	2:8:B:U:O4'	2:8:B:U:N1	2:8:B:U:H1'	14	102.06
(1,487)	2:7:B:A:C3'	2:7:B:A:C5'	2:7:B:A:O4'	2:7:B:A:H4'	15	102.06
(1,482)	2:6:B:A:C3'	2:6:B:A:C5'	2:6:B:A:O4'	2:6:B:A:H4'	11	102.06
(1,504)	2:11:B:A:C2'	2:11:B:A:O4'	2:11:B:A:N9	2:11:B:A:H1'	17	102.04
(1,489)	2:8:B:U:C2'	2:8:B:U:O4'	2:8:B:U:N1	2:8:B:U:H1'	3	102.04
(1,489)	2:8:B:U:C2'	2:8:B:U:O4'	2:8:B:U:N1	2:8:B:U:H1'	9	102.03
(1,492)	2:8:B:U:C3'	2:8:B:U:C5'	2:8:B:U:O4'	2:8:B:U:H4'	17	102.02
(1,507)	2:11:B:A:C3'	2:11:B:A:C5'	2:11:B:A:O4'	2:11:B:A:H4'	3	102.01
(1,499)	2:10:B:A:C2'	2:10:B:A:O4'	2:10:B:A:N9	2:10:B:A:H1'	10	102.01
(1,489)	2:8:B:U:C2'	2:8:B:U:O4'	2:8:B:U:N1	2:8:B:U:H1'	6	102.01
(1,472)	2:4:B:U:C3'	2:4:B:U:C5'	2:4:B:U:O4'	2:4:B:U:H4'	12	102.01
(1,494)	2:9:B:G:C2'	2:9:B:G:O4'	2:9:B:G:N9	2:9:B:G:H1'	2	102.0
(1,492)	2:8:B:U:C3'	2:8:B:U:C5'	2:8:B:U:O4'	2:8:B:U:H4'	8	101.99
(1,494)	2:9:B:G:C2'	2:9:B:G:O4'	2:9:B:G:N9	2:9:B:G:H1'	5	101.96
(1,492)	2:8:B:U:C3'	2:8:B:U:C5'	2:8:B:U:O4'	2:8:B:U:H4'	11	101.96
(1,504)	2:11:B:A:C2'	2:11:B:A:O4'	2:11:B:A:N9	2:11:B:A:H1'	13	101.95
(1,494)	2:9:B:G:C2'	2:9:B:G:O4'	2:9:B:G:N9	2:9:B:G:H1'	4	101.94
(1,479)	2:6:B:A:C2'	2:6:B:A:O4'	2:6:B:A:N9	2:6:B:A:H1'	15	101.94
(1,497)	2:9:B:G:C3'	2:9:B:G:C5'	2:9:B:G:O4'	2:9:B:G:H4'	19	101.93
(1,497)	2:9:B:G:C3'	2:9:B:G:C5'	2:9:B:G:O4'	2:9:B:G:H4'	18	101.91
(1,464)	2:3:B:G:C2'	2:3:B:G:O4'	2:3:B:G:N9	2:3:B:G:H1'	13	101.91
(1,489)	2:8:B:U:C2'	2:8:B:U:O4'	2:8:B:U:N1	2:8:B:U:H1'	10	101.9
(1,489)	2:8:B:U:C2'	2:8:B:U:O4'	2:8:B:U:N1	2:8:B:U:H1'	13	101.9
(1,497)	2:9:B:G:C3'	2:9:B:G:C5'	2:9:B:G:O4'	2:9:B:G:H4'	14	101.87
(1,492)	2:8:B:U:C3'	2:8:B:U:C5'	2:8:B:U:O4'	2:8:B:U:H4'	19	101.87
(1,487)	2:7:B:A:C3'	2:7:B:A:C5'	2:7:B:A:O4'	2:7:B:A:H4'	17	101.87
(1,504)	2:11:B:A:C2'	2:11:B:A:O4'	2:11:B:A:N9	2:11:B:A:H1'	20	101.86
(1,489)	2:8:B:U:C2'	2:8:B:U:O4'	2:8:B:U:N1	2:8:B:U:H1'	12	101.85
(1,487)	2:7:B:A:C3'	2:7:B:A:C5'	2:7:B:A:O4'	2:7:B:A:H4'	6	101.85
(1,487)	2:7:B:A:C3'	2:7:B:A:C5'	2:7:B:A:O4'	2:7:B:A:H4'	7	101.84
(1,472)	2:4:B:U:C3'	2:4:B:U:C5'	2:4:B:U:O4'	2:4:B:U:H4'	13	101.83
(1,497)	2:9:B:G:C3'	2:9:B:G:C5'	2:9:B:G:O4'	2:9:B:G:H4'	2	101.82
(1,494)	2:9:B:G:C2'	2:9:B:G:O4'	2:9:B:G:N9	2:9:B:G:H1'	7	101.82
(1,494)	2:9:B:G:C2'	2:9:B:G:O4'	2:9:B:G:N9	2:9:B:G:H1'	18	101.82
(1,489)	2:8:B:U:C2'	2:8:B:U:O4'	2:8:B:U:N1	2:8:B:U:H1'	20	101.82
(1,494)	2:9:B:G:C2'	2:9:B:G:O4'	2:9:B:G:N9	2:9:B:G:H1'	9	101.8
(1,494)	2:9:B:G:C2'	2:9:B:G:O4'	2:9:B:G:N9	2:9:B:G:H1'	14	101.79
(1,492)	2:8:B:U:C3'	2:8:B:U:C5'	2:8:B:U:O4'	2:8:B:U:H4'	2	101.79
(1,464)	2:3:B:G:C2'	2:3:B:G:O4'	2:3:B:G:N9	2:3:B:G:H1'	10	101.79
(1,502)	2:10:B:A:C3'	2:10:B:A:C5'	2:10:B:A:O4'	2:10:B:A:H4'	1	101.77
(1,497)	2:9:B:G:C3'	2:9:B:G:C5'	2:9:B:G:O4'	2:9:B:G:H4'	16	101.77
(1,492)	2:8:B:U:C3'	2:8:B:U:C5'	2:8:B:U:O4'	2:8:B:U:H4'	14	101.76
(1,472)	2:4:B:U:C3'	2:4:B:U:C5'	2:4:B:U:O4'	2:4:B:U:H4'	5	101.76
(1,472)	2:4:B:U:C3'	2:4:B:U:C5'	2:4:B:U:O4'	2:4:B:U:H4'	9	101.76
(1,489)	2:8:B:U:C2'	2:8:B:U:O4'	2:8:B:U:N1	2:8:B:U:H1'	8	101.75
(1,487)	2:7:B:A:C3'	2:7:B:A:C5'	2:7:B:A:O4'	2:7:B:A:H4'	13	101.75

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,502)	2:10:B:A:C3'	2:10:B:A:C5'	2:10:B:A:O4'	2:10:B:A:H4'	2	101.74
(1,494)	2:9:B:G:C2'	2:9:B:G:O4'	2:9:B:G:N9	2:9:B:G:H1'	19	101.71
(1,494)	2:9:B:G:C2'	2:9:B:G:O4'	2:9:B:G:N9	2:9:B:G:H1'	1	101.7
(1,494)	2:9:B:G:C2'	2:9:B:G:O4'	2:9:B:G:N9	2:9:B:G:H1'	12	101.68
(1,464)	2:3:B:G:C2'	2:3:B:G:O4'	2:3:B:G:N9	2:3:B:G:H1'	12	101.68
(1,497)	2:9:B:G:C3'	2:9:B:G:C5'	2:9:B:G:O4'	2:9:B:G:H4'	15	101.66
(1,489)	2:8:B:U:C2'	2:8:B:U:O4'	2:8:B:U:N1	2:8:B:U:H1'	15	101.66
(1,489)	2:8:B:U:C2'	2:8:B:U:O4'	2:8:B:U:N1	2:8:B:U:H1'	7	101.64
(1,494)	2:9:B:G:C2'	2:9:B:G:O4'	2:9:B:G:N9	2:9:B:G:H1'	11	101.63
(1,472)	2:4:B:U:C3'	2:4:B:U:C5'	2:4:B:U:O4'	2:4:B:U:H4'	16	101.62
(1,497)	2:9:B:G:C3'	2:9:B:G:C5'	2:9:B:G:O4'	2:9:B:G:H4'	3	101.61
(1,492)	2:8:B:U:C3'	2:8:B:U:C5'	2:8:B:U:O4'	2:8:B:U:H4'	16	101.59
(1,494)	2:9:B:G:C2'	2:9:B:G:O4'	2:9:B:G:N9	2:9:B:G:H1'	6	101.58
(1,472)	2:4:B:U:C3'	2:4:B:U:C5'	2:4:B:U:O4'	2:4:B:U:H4'	4	101.54
(1,454)	2:1:B:G:C2'	2:1:B:G:O4'	2:1:B:G:N9	2:1:B:G:H1'	14	101.54
(1,502)	2:10:B:A:C3'	2:10:B:A:C5'	2:10:B:A:O4'	2:10:B:A:H4'	4	101.53
(1,502)	2:10:B:A:C3'	2:10:B:A:C5'	2:10:B:A:O4'	2:10:B:A:H4'	9	101.53
(1,464)	2:3:B:G:C2'	2:3:B:G:O4'	2:3:B:G:N9	2:3:B:G:H1'	11	101.52
(1,487)	2:7:B:A:C3'	2:7:B:A:C5'	2:7:B:A:O4'	2:7:B:A:H4'	19	101.5
(1,454)	2:1:B:G:C2'	2:1:B:G:O4'	2:1:B:G:N9	2:1:B:G:H1'	6	101.49
(1,502)	2:10:B:A:C3'	2:10:B:A:C5'	2:10:B:A:O4'	2:10:B:A:H4'	20	101.47
(1,502)	2:10:B:A:C3'	2:10:B:A:C5'	2:10:B:A:O4'	2:10:B:A:H4'	5	101.46
(1,464)	2:3:B:G:C2'	2:3:B:G:O4'	2:3:B:G:N9	2:3:B:G:H1'	19	101.46
(1,454)	2:1:B:G:C2'	2:1:B:G:O4'	2:1:B:G:N9	2:1:B:G:H1'	20	101.46
(1,472)	2:4:B:U:C3'	2:4:B:U:C5'	2:4:B:U:O4'	2:4:B:U:H4'	17	101.45
(1,454)	2:1:B:G:C2'	2:1:B:G:O4'	2:1:B:G:N9	2:1:B:G:H1'	4	101.45
(1,454)	2:1:B:G:C2'	2:1:B:G:O4'	2:1:B:G:N9	2:1:B:G:H1'	9	101.44
(1,454)	2:1:B:G:C2'	2:1:B:G:O4'	2:1:B:G:N9	2:1:B:G:H1'	16	101.44
(1,464)	2:3:B:G:C2'	2:3:B:G:O4'	2:3:B:G:N9	2:3:B:G:H1'	6	101.42
(1,454)	2:1:B:G:C2'	2:1:B:G:O4'	2:1:B:G:N9	2:1:B:G:H1'	2	101.42
(1,454)	2:1:B:G:C2'	2:1:B:G:O4'	2:1:B:G:N9	2:1:B:G:H1'	3	101.42
(1,454)	2:1:B:G:C2'	2:1:B:G:O4'	2:1:B:G:N9	2:1:B:G:H1'	5	101.41
(1,464)	2:3:B:G:C2'	2:3:B:G:O4'	2:3:B:G:N9	2:3:B:G:H1'	14	101.4
(1,454)	2:1:B:G:C2'	2:1:B:G:O4'	2:1:B:G:N9	2:1:B:G:H1'	13	101.4
(1,497)	2:9:B:G:C3'	2:9:B:G:C5'	2:9:B:G:O4'	2:9:B:G:H4'	1	101.39
(1,492)	2:8:B:U:C3'	2:8:B:U:C5'	2:8:B:U:O4'	2:8:B:U:H4'	5	101.39
(1,454)	2:1:B:G:C2'	2:1:B:G:O4'	2:1:B:G:N9	2:1:B:G:H1'	17	101.39
(1,482)	2:6:B:A:C3'	2:6:B:A:C5'	2:6:B:A:O4'	2:6:B:A:H4'	1	101.37
(1,487)	2:7:B:A:C3'	2:7:B:A:C5'	2:7:B:A:O4'	2:7:B:A:H4'	5	101.36
(1,454)	2:1:B:G:C2'	2:1:B:G:O4'	2:1:B:G:N9	2:1:B:G:H1'	15	101.35
(1,454)	2:1:B:G:C2'	2:1:B:G:O4'	2:1:B:G:N9	2:1:B:G:H1'	18	101.35
(1,487)	2:7:B:A:C3'	2:7:B:A:C5'	2:7:B:A:O4'	2:7:B:A:H4'	16	101.33
(1,482)	2:6:B:A:C3'	2:6:B:A:C5'	2:6:B:A:O4'	2:6:B:A:H4'	2	101.33
(1,464)	2:3:B:G:C2'	2:3:B:G:O4'	2:3:B:G:N9	2:3:B:G:H1'	9	101.33
(1,504)	2:11:B:A:C2'	2:11:B:A:O4'	2:11:B:A:N9	2:11:B:A:H1'	19	101.32
(1,464)	2:3:B:G:C2'	2:3:B:G:O4'	2:3:B:G:N9	2:3:B:G:H1'	18	101.32
(1,384)	1:243:A:LEU:CA	1:243:A:LEU:CG	1:243:A:LEU:HB2	1:243:A:LEU:HB3	18	101.32
(1,474)	2:5:B:G:C2'	2:5:B:G:O4'	2:5:B:G:N9	2:5:B:G:H1'	7	101.3
(1,474)	2:5:B:G:C2'	2:5:B:G:O4'	2:5:B:G:N9	2:5:B:G:H1'	17	101.3
(1,454)	2:1:B:G:C2'	2:1:B:G:O4'	2:1:B:G:N9	2:1:B:G:H1'	1	101.3
(1,497)	2:9:B:G:C3'	2:9:B:G:C5'	2:9:B:G:O4'	2:9:B:G:H4'	13	101.28

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,474)	2:5:B:G:C2'	2:5:B:G:O4'	2:5:B:G:N9	2:5:B:G:H1'	16	101.28
(1,464)	2:3:B:G:C2'	2:3:B:G:O4'	2:3:B:G:N9	2:3:B:G:H1'	17	101.28
(1,454)	2:1:B:G:C2'	2:1:B:G:O4'	2:1:B:G:N9	2:1:B:G:H1'	19	101.28
(1,474)	2:5:B:G:C2'	2:5:B:G:O4'	2:5:B:G:N9	2:5:B:G:H1'	1	101.27
(1,454)	2:1:B:G:C2'	2:1:B:G:O4'	2:1:B:G:N9	2:1:B:G:H1'	8	101.26
(1,492)	2:8:B:U:C3'	2:8:B:U:C5'	2:8:B:U:O4'	2:8:B:U:H4'	4	101.25
(1,474)	2:5:B:G:C2'	2:5:B:G:O4'	2:5:B:G:N9	2:5:B:G:H1'	2	101.25
(1,482)	2:6:B:A:C3'	2:6:B:A:C5'	2:6:B:A:O4'	2:6:B:A:H4'	10	101.24
(1,464)	2:3:B:G:C2'	2:3:B:G:O4'	2:3:B:G:N9	2:3:B:G:H1'	5	101.23
(1,434)	1:263:A:LYS:CA	1:263:A:LYS:CG	1:263:A:LYS:HB2	1:263:A:LYS:HB3	17	101.23
(1,454)	2:1:B:G:C2'	2:1:B:G:O4'	2:1:B:G:N9	2:1:B:G:H1'	7	101.22
(1,384)	1:243:A:LEU:CA	1:243:A:LEU:CG	1:243:A:LEU:HB2	1:243:A:LEU:HB3	10	101.18
(1,504)	2:11:B:A:C2'	2:11:B:A:O4'	2:11:B:A:N9	2:11:B:A:H1'	15	101.17
(1,454)	2:1:B:G:C2'	2:1:B:G:O4'	2:1:B:G:N9	2:1:B:G:H1'	12	101.17
(1,487)	2:7:B:A:C3'	2:7:B:A:C5'	2:7:B:A:O4'	2:7:B:A:H4'	14	101.16
(1,477)	2:5:B:G:C3'	2:5:B:G:C5'	2:5:B:G:O4'	2:5:B:G:H4'	17	101.05
(1,384)	1:243:A:LEU:CA	1:243:A:LEU:CG	1:243:A:LEU:HB2	1:243:A:LEU:HB3	12	101.03
(1,464)	2:3:B:G:C2'	2:3:B:G:O4'	2:3:B:G:N9	2:3:B:G:H1'	3	101.02
(1,497)	2:9:B:G:C3'	2:9:B:G:C5'	2:9:B:G:O4'	2:9:B:G:H4'	9	101.0
(1,502)	2:10:B:A:C3'	2:10:B:A:C5'	2:10:B:A:O4'	2:10:B:A:H4'	19	100.98
(1,384)	1:243:A:LEU:CA	1:243:A:LEU:CG	1:243:A:LEU:HB2	1:243:A:LEU:HB3	6	100.98
(1,454)	2:1:B:G:C2'	2:1:B:G:O4'	2:1:B:G:N9	2:1:B:G:H1'	11	100.94
(1,487)	2:7:B:A:C3'	2:7:B:A:C5'	2:7:B:A:O4'	2:7:B:A:H4'	4	100.86
(1,487)	2:7:B:A:C3'	2:7:B:A:C5'	2:7:B:A:O4'	2:7:B:A:H4'	8	100.86
(1,497)	2:9:B:G:C3'	2:9:B:G:C5'	2:9:B:G:O4'	2:9:B:G:H4'	20	100.85
(1,434)	1:263:A:LYS:CA	1:263:A:LYS:CG	1:263:A:LYS:HB2	1:263:A:LYS:HB3	11	100.83
(1,492)	2:8:B:U:C3'	2:8:B:U:C5'	2:8:B:U:O4'	2:8:B:U:H4'	18	100.82
(1,384)	1:243:A:LEU:CA	1:243:A:LEU:CG	1:243:A:LEU:HB2	1:243:A:LEU:HB3	5	100.77
(1,434)	1:263:A:LYS:CA	1:263:A:LYS:CG	1:263:A:LYS:HB2	1:263:A:LYS:HB3	9	100.72
(1,434)	1:263:A:LYS:CA	1:263:A:LYS:CG	1:263:A:LYS:HB2	1:263:A:LYS:HB3	7	100.7
(1,434)	1:263:A:LYS:CA	1:263:A:LYS:CG	1:263:A:LYS:HB2	1:263:A:LYS:HB3	15	100.69
(1,434)	1:263:A:LYS:CA	1:263:A:LYS:CG	1:263:A:LYS:HB2	1:263:A:LYS:HB3	1	100.68
(1,395)	1:248:A:LEU:CA	1:248:A:LEU:CG	1:248:A:LEU:HB2	1:248:A:LEU:HB3	3	100.68
(1,454)	2:1:B:G:C2'	2:1:B:G:O4'	2:1:B:G:N9	2:1:B:G:H1'	10	100.63
(1,474)	2:5:B:G:C2'	2:5:B:G:O4'	2:5:B:G:N9	2:5:B:G:H1'	12	100.6
(1,474)	2:5:B:G:C2'	2:5:B:G:O4'	2:5:B:G:N9	2:5:B:G:H1'	13	100.59
(1,434)	1:263:A:LYS:CA	1:263:A:LYS:CG	1:263:A:LYS:HB2	1:263:A:LYS:HB3	10	100.57
(1,434)	1:263:A:LYS:CA	1:263:A:LYS:CG	1:263:A:LYS:HB2	1:263:A:LYS:HB3	16	100.57
(1,384)	1:243:A:LEU:CA	1:243:A:LEU:CG	1:243:A:LEU:HB2	1:243:A:LEU:HB3	3	100.53
(1,389)	1:245:A:GLY:N	1:245:A:GLY:C	1:245:A:GLY:HA2	1:245:A:GLY:HA3	15	100.51
(1,492)	2:8:B:U:C3'	2:8:B:U:C5'	2:8:B:U:O4'	2:8:B:U:H4'	9	100.5
(1,389)	1:245:A:GLY:N	1:245:A:GLY:C	1:245:A:GLY:HA2	1:245:A:GLY:HA3	10	100.47
(1,477)	2:5:B:G:C3'	2:5:B:G:C5'	2:5:B:G:O4'	2:5:B:G:H4'	16	100.42
(1,387)	1:244:A:CYS:CA	1:244:A:CYS:SG	1:244:A:CYS:HB2	1:244:A:CYS:HB3	20	100.42
(1,434)	1:263:A:LYS:CA	1:263:A:LYS:CG	1:263:A:LYS:HB2	1:263:A:LYS:HB3	5	100.41
(1,389)	1:245:A:GLY:N	1:245:A:GLY:C	1:245:A:GLY:HA2	1:245:A:GLY:HA3	3	100.41
(1,387)	1:244:A:CYS:CA	1:244:A:CYS:SG	1:244:A:CYS:HB2	1:244:A:CYS:HB3	7	100.41
(1,389)	1:245:A:GLY:N	1:245:A:GLY:C	1:245:A:GLY:HA2	1:245:A:GLY:HA3	9	100.4
(1,389)	1:245:A:GLY:N	1:245:A:GLY:C	1:245:A:GLY:HA2	1:245:A:GLY:HA3	18	100.4
(1,389)	1:245:A:GLY:N	1:245:A:GLY:C	1:245:A:GLY:HA2	1:245:A:GLY:HA3	16	100.37
(1,437)	1:263:A:LYS:CG	1:263:A:LYS:CE	1:263:A:LYS:HD2	1:263:A:LYS:HD3	20	100.36

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,389)	1:245:A:GLY:N	1:245:A:GLY:C	1:245:A:GLY:HA2	1:245:A:GLY:HA3	2	100.36
(1,389)	1:245:A:GLY:N	1:245:A:GLY:C	1:245:A:GLY:HA2	1:245:A:GLY:HA3	13	100.34
(1,389)	1:245:A:GLY:N	1:245:A:GLY:C	1:245:A:GLY:HA2	1:245:A:GLY:HA3	14	100.33
(1,389)	1:245:A:GLY:N	1:245:A:GLY:C	1:245:A:GLY:HA2	1:245:A:GLY:HA3	11	100.31
(1,483)	2:6:B:A:C4'	2:6:B:A:O5'	2:6:B:A:H5'	2:6:B:A:H5''	19	100.28
(1,389)	1:245:A:GLY:N	1:245:A:GLY:C	1:245:A:GLY:HA2	1:245:A:GLY:HA3	12	100.28
(1,389)	1:245:A:GLY:N	1:245:A:GLY:C	1:245:A:GLY:HA2	1:245:A:GLY:HA3	4	100.26
(1,483)	2:6:B:A:C4'	2:6:B:A:O5'	2:6:B:A:H5'	2:6:B:A:H5''	4	100.24
(1,395)	1:248:A:LEU:CA	1:248:A:LEU:CG	1:248:A:LEU:HB2	1:248:A:LEU:HB3	2	100.22
(1,389)	1:245:A:GLY:N	1:245:A:GLY:C	1:245:A:GLY:HA2	1:245:A:GLY:HA3	5	100.21
(1,387)	1:244:A:CYS:CA	1:244:A:CYS:SG	1:244:A:CYS:HB2	1:244:A:CYS:HB3	12	100.21
(1,395)	1:248:A:LEU:CA	1:248:A:LEU:CG	1:248:A:LEU:HB2	1:248:A:LEU:HB3	9	100.2
(1,389)	1:245:A:GLY:N	1:245:A:GLY:C	1:245:A:GLY:HA2	1:245:A:GLY:HA3	17	100.2
(1,389)	1:245:A:GLY:N	1:245:A:GLY:C	1:245:A:GLY:HA2	1:245:A:GLY:HA3	19	100.2
(1,451)	1:269:A:GLN:CA	1:269:A:GLN:CG	1:269:A:GLN:HB2	1:269:A:GLN:HB3	20	100.19
(1,389)	1:245:A:GLY:N	1:245:A:GLY:C	1:245:A:GLY:HA2	1:245:A:GLY:HA3	6	100.19
(1,387)	1:244:A:CYS:CA	1:244:A:CYS:SG	1:244:A:CYS:HB2	1:244:A:CYS:HB3	5	100.19
(1,395)	1:248:A:LEU:CA	1:248:A:LEU:CG	1:248:A:LEU:HB2	1:248:A:LEU:HB3	14	100.18
(1,420)	1:257:A:ILE:CB	1:257:A:ILE:CD1	1:257:A:ILE:HG12	1:257:A:ILE:HG13	13	100.16
(1,389)	1:245:A:GLY:N	1:245:A:GLY:C	1:245:A:GLY:HA2	1:245:A:GLY:HA3	1	100.16
(1,380)	1:241:A:GLN:CB	1:241:A:GLN:CD	1:241:A:GLN:HG2	1:241:A:GLN:HG3	3	100.16
(1,474)	2:5:B:G:C2'	2:5:B:G:O4'	2:5:B:G:N9	2:5:B:G:H1'	10	100.15
(1,387)	1:244:A:CYS:CA	1:244:A:CYS:SG	1:244:A:CYS:HB2	1:244:A:CYS:HB3	3	100.15
(1,352)	1:227:A:ARG:CB	1:227:A:ARG:CD	1:227:A:ARG:HG2	1:227:A:ARG:HG3	8	100.15
(1,409)	1:252:A:GLY:N	1:252:A:GLY:C	1:252:A:GLY:HA2	1:252:A:GLY:HA3	19	100.14
(1,389)	1:245:A:GLY:N	1:245:A:GLY:C	1:245:A:GLY:HA2	1:245:A:GLY:HA3	20	100.14
(1,395)	1:248:A:LEU:CA	1:248:A:LEU:CG	1:248:A:LEU:HB2	1:248:A:LEU:HB3	6	100.13
(1,474)	2:5:B:G:C2'	2:5:B:G:O4'	2:5:B:G:N9	2:5:B:G:H1'	11	100.11
(1,389)	1:245:A:GLY:N	1:245:A:GLY:C	1:245:A:GLY:HA2	1:245:A:GLY:HA3	8	100.11
(1,387)	1:244:A:CYS:CA	1:244:A:CYS:SG	1:244:A:CYS:HB2	1:244:A:CYS:HB3	6	100.11
(1,474)	2:5:B:G:C2'	2:5:B:G:O4'	2:5:B:G:N9	2:5:B:G:H1'	14	100.1
(1,420)	1:257:A:ILE:CB	1:257:A:ILE:CD1	1:257:A:ILE:HG12	1:257:A:ILE:HG13	16	100.1
(1,437)	1:263:A:LYS:CG	1:263:A:LYS:CE	1:263:A:LYS:HD2	1:263:A:LYS:HD3	17	100.09
(1,420)	1:257:A:ILE:CB	1:257:A:ILE:CD1	1:257:A:ILE:HG12	1:257:A:ILE:HG13	5	100.09
(1,387)	1:244:A:CYS:CA	1:244:A:CYS:SG	1:244:A:CYS:HB2	1:244:A:CYS:HB3	1	100.09
(1,483)	2:6:B:A:C4'	2:6:B:A:O5'	2:6:B:A:H5'	2:6:B:A:H5''	16	100.08
(1,417)	1:256:A:HIS:CA	1:256:A:HIS:CG	1:256:A:HIS:HB2	1:256:A:HIS:HB3	9	100.07
(1,434)	1:263:A:LYS:CA	1:263:A:LYS:CG	1:263:A:LYS:HB2	1:263:A:LYS:HB3	12	100.06
(1,409)	1:252:A:GLY:N	1:252:A:GLY:C	1:252:A:GLY:HA2	1:252:A:GLY:HA3	7	100.06
(1,395)	1:248:A:LEU:CA	1:248:A:LEU:CG	1:248:A:LEU:HB2	1:248:A:LEU:HB3	12	100.05
(1,387)	1:244:A:CYS:CA	1:244:A:CYS:SG	1:244:A:CYS:HB2	1:244:A:CYS:HB3	18	100.05
(1,420)	1:257:A:ILE:CB	1:257:A:ILE:CD1	1:257:A:ILE:HG12	1:257:A:ILE:HG13	19	100.04
(1,395)	1:248:A:LEU:CA	1:248:A:LEU:CG	1:248:A:LEU:HB2	1:248:A:LEU:HB3	5	100.04
(1,387)	1:244:A:CYS:CA	1:244:A:CYS:SG	1:244:A:CYS:HB2	1:244:A:CYS:HB3	10	100.04
(1,389)	1:245:A:GLY:N	1:245:A:GLY:C	1:245:A:GLY:HA2	1:245:A:GLY:HA3	7	100.03
(1,359)	1:231:A:PHE:CA	1:231:A:PHE:CG	1:231:A:PHE:HB2	1:231:A:PHE:HB3	17	100.03
(1,420)	1:257:A:ILE:CB	1:257:A:ILE:CD1	1:257:A:ILE:HG12	1:257:A:ILE:HG13	1	100.02
(1,409)	1:252:A:GLY:N	1:252:A:GLY:C	1:252:A:GLY:HA2	1:252:A:GLY:HA3	8	100.01
(1,508)	2:11:B:A:C4'	2:11:B:A:O5'	2:11:B:A:H5'	2:11:B:A:H5''	19	100.0
(1,447)	1:268:A:ARG:CA	1:268:A:ARG:CG	1:268:A:ARG:HB2	1:268:A:ARG:HB3	4	100.0
(1,420)	1:257:A:ILE:CB	1:257:A:ILE:CD1	1:257:A:ILE:HG12	1:257:A:ILE:HG13	20	100.0

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,387)	1:244:A:CYS:CA	1:244:A:CYS:SG	1:244:A:CYS:HB2	1:244:A:CYS:HB3	2	99.99
(1,380)	1:241:A:GLN:CB	1:241:A:GLN:CD	1:241:A:GLN:HG2	1:241:A:GLN:HG3	5	99.99
(1,447)	1:268:A:ARG:CA	1:268:A:ARG:CG	1:268:A:ARG:HB2	1:268:A:ARG:HB3	9	99.98
(1,420)	1:257:A:ILE:CB	1:257:A:ILE:CD1	1:257:A:ILE:HG12	1:257:A:ILE:HG13	7	99.98
(1,395)	1:248:A:LEU:CA	1:248:A:LEU:CG	1:248:A:LEU:HB2	1:248:A:LEU:HB3	18	99.97
(1,356)	1:229:A:PHE:CA	1:229:A:PHE:CG	1:229:A:PHE:HB2	1:229:A:PHE:HB3	14	99.97
(1,437)	1:263:A:LYS:CG	1:263:A:LYS:CE	1:263:A:LYS:HD2	1:263:A:LYS:HD3	10	99.96
(1,380)	1:241:A:GLN:CB	1:241:A:GLN:CD	1:241:A:GLN:HG2	1:241:A:GLN:HG3	2	99.96
(1,434)	1:263:A:LYS:CA	1:263:A:LYS:CG	1:263:A:LYS:HB2	1:263:A:LYS:HB3	3	99.95
(1,409)	1:252:A:GLY:N	1:252:A:GLY:C	1:252:A:GLY:HA2	1:252:A:GLY:HA3	14	99.95
(1,359)	1:231:A:PHE:CA	1:231:A:PHE:CG	1:231:A:PHE:HB2	1:231:A:PHE:HB3	20	99.95
(1,452)	1:269:A:GLN:CB	1:269:A:GLN:CD	1:269:A:GLN:HG2	1:269:A:GLN:HG3	15	99.94
(1,409)	1:252:A:GLY:N	1:252:A:GLY:C	1:252:A:GLY:HA2	1:252:A:GLY:HA3	2	99.94
(1,387)	1:244:A:CYS:CA	1:244:A:CYS:SG	1:244:A:CYS:HB2	1:244:A:CYS:HB3	19	99.94
(1,452)	1:269:A:GLN:CB	1:269:A:GLN:CD	1:269:A:GLN:HG2	1:269:A:GLN:HG3	9	99.93
(1,409)	1:252:A:GLY:N	1:252:A:GLY:C	1:252:A:GLY:HA2	1:252:A:GLY:HA3	10	99.92
(1,380)	1:241:A:GLN:CB	1:241:A:GLN:CD	1:241:A:GLN:HG2	1:241:A:GLN:HG3	12	99.9
(1,434)	1:263:A:LYS:CA	1:263:A:LYS:CG	1:263:A:LYS:HB2	1:263:A:LYS:HB3	2	99.89
(1,384)	1:243:A:LEU:CA	1:243:A:LEU:CG	1:243:A:LEU:HB2	1:243:A:LEU:HB3	11	99.89
(1,409)	1:252:A:GLY:N	1:252:A:GLY:C	1:252:A:GLY:HA2	1:252:A:GLY:HA3	4	99.88
(1,409)	1:252:A:GLY:N	1:252:A:GLY:C	1:252:A:GLY:HA2	1:252:A:GLY:HA3	6	99.88
(1,445)	1:267:A:ASN:CA	1:267:A:ASN:CG	1:267:A:ASN:HB2	1:267:A:ASN:HB3	20	99.87
(1,395)	1:248:A:LEU:CA	1:248:A:LEU:CG	1:248:A:LEU:HB2	1:248:A:LEU:HB3	17	99.87
(1,359)	1:231:A:PHE:CA	1:231:A:PHE:CG	1:231:A:PHE:HB2	1:231:A:PHE:HB3	1	99.87
(1,359)	1:231:A:PHE:CA	1:231:A:PHE:CG	1:231:A:PHE:HB2	1:231:A:PHE:HB3	5	99.87
(1,359)	1:231:A:PHE:CA	1:231:A:PHE:CG	1:231:A:PHE:HB2	1:231:A:PHE:HB3	10	99.87
(1,420)	1:257:A:ILE:CB	1:257:A:ILE:CD1	1:257:A:ILE:HG12	1:257:A:ILE:HG13	12	99.86
(1,409)	1:252:A:GLY:N	1:252:A:GLY:C	1:252:A:GLY:HA2	1:252:A:GLY:HA3	20	99.86
(1,387)	1:244:A:CYS:CA	1:244:A:CYS:SG	1:244:A:CYS:HB2	1:244:A:CYS:HB3	4	99.86
(1,359)	1:231:A:PHE:CA	1:231:A:PHE:CG	1:231:A:PHE:HB2	1:231:A:PHE:HB3	13	99.86
(1,420)	1:257:A:ILE:CB	1:257:A:ILE:CD1	1:257:A:ILE:HG12	1:257:A:ILE:HG13	8	99.85
(1,417)	1:256:A:HIS:CA	1:256:A:HIS:CG	1:256:A:HIS:HB2	1:256:A:HIS:HB3	18	99.85
(1,409)	1:252:A:GLY:N	1:252:A:GLY:C	1:252:A:GLY:HA2	1:252:A:GLY:HA3	3	99.85
(1,420)	1:257:A:ILE:CB	1:257:A:ILE:CD1	1:257:A:ILE:HG12	1:257:A:ILE:HG13	15	99.84
(1,417)	1:256:A:HIS:CA	1:256:A:HIS:CG	1:256:A:HIS:HB2	1:256:A:HIS:HB3	6	99.84
(1,380)	1:241:A:GLN:CB	1:241:A:GLN:CD	1:241:A:GLN:HG2	1:241:A:GLN:HG3	4	99.84
(1,379)	1:241:A:GLN:CA	1:241:A:GLN:CG	1:241:A:GLN:HB2	1:241:A:GLN:HB3	7	99.84
(1,477)	2:5:B:G:C3'	2:5:B:G:C5'	2:5:B:G:O4'	2:5:B:G:H4'	15	99.83
(1,411)	1:253:A:ILE:CB	1:253:A:ILE:CD1	1:253:A:ILE:HG12	1:253:A:ILE:HG13	20	99.83
(1,387)	1:244:A:CYS:CA	1:244:A:CYS:SG	1:244:A:CYS:HB2	1:244:A:CYS:HB3	8	99.83
(1,359)	1:231:A:PHE:CA	1:231:A:PHE:CG	1:231:A:PHE:HB2	1:231:A:PHE:HB3	19	99.83
(1,451)	1:269:A:GLN:CA	1:269:A:GLN:CG	1:269:A:GLN:HB2	1:269:A:GLN:HB3	15	99.82
(1,448)	1:268:A:ARG:CB	1:268:A:ARG:CD	1:268:A:ARG:HG2	1:268:A:ARG:HG3	5	99.82
(1,447)	1:268:A:ARG:CA	1:268:A:ARG:CG	1:268:A:ARG:HB2	1:268:A:ARG:HB3	20	99.82
(1,434)	1:263:A:LYS:CA	1:263:A:LYS:CG	1:263:A:LYS:HB2	1:263:A:LYS:HB3	4	99.82
(1,380)	1:241:A:GLN:CB	1:241:A:GLN:CD	1:241:A:GLN:HG2	1:241:A:GLN:HG3	1	99.82
(1,359)	1:231:A:PHE:CA	1:231:A:PHE:CG	1:231:A:PHE:HB2	1:231:A:PHE:HB3	3	99.82
(1,427)	1:261:A:GLU:CA	1:261:A:GLU:CG	1:261:A:GLU:HB2	1:261:A:GLU:HB3	12	99.81
(1,409)	1:252:A:GLY:N	1:252:A:GLY:C	1:252:A:GLY:HA2	1:252:A:GLY:HA3	13	99.81
(1,356)	1:229:A:PHE:CA	1:229:A:PHE:CG	1:229:A:PHE:HB2	1:229:A:PHE:HB3	7	99.81
(1,420)	1:257:A:ILE:CB	1:257:A:ILE:CD1	1:257:A:ILE:HG12	1:257:A:ILE:HG13	4	99.8

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,420)	1:257:A:ILE:CB	1:257:A:ILE:CD1	1:257:A:ILE:HG12	1:257:A:ILE:HG13	10	99.8
(1,409)	1:252:A:GLY:N	1:252:A:GLY:C	1:252:A:GLY:HA2	1:252:A:GLY:HA3	11	99.8
(1,409)	1:252:A:GLY:N	1:252:A:GLY:C	1:252:A:GLY:HA2	1:252:A:GLY:HA3	16	99.8
(1,384)	1:243:A:LEU:CA	1:243:A:LEU:CG	1:243:A:LEU:HB2	1:243:A:LEU:HB3	9	99.8
(1,434)	1:263:A:LYS:CA	1:263:A:LYS:CG	1:263:A:LYS:HB2	1:263:A:LYS:HB3	14	99.79
(1,420)	1:257:A:ILE:CB	1:257:A:ILE:CD1	1:257:A:ILE:HG12	1:257:A:ILE:HG13	11	99.79
(1,420)	1:257:A:ILE:CB	1:257:A:ILE:CD1	1:257:A:ILE:HG12	1:257:A:ILE:HG13	18	99.79
(1,387)	1:244:A:CYS:CA	1:244:A:CYS:SG	1:244:A:CYS:HB2	1:244:A:CYS:HB3	17	99.79
(1,380)	1:241:A:GLN:CB	1:241:A:GLN:CD	1:241:A:GLN:HG2	1:241:A:GLN:HG3	8	99.79
(1,365)	1:234:A:PHE:CA	1:234:A:PHE:CG	1:234:A:PHE:HB2	1:234:A:PHE:HB3	12	99.79
(1,468)	2:3:B:G:C4'	2:3:B:G:O5'	2:3:B:G:H5'	2:3:B:G:H5''	2	99.78
(1,395)	1:248:A:LEU:CA	1:248:A:LEU:CG	1:248:A:LEU:HB2	1:248:A:LEU:HB3	15	99.78
(1,437)	1:263:A:LYS:CG	1:263:A:LYS:CE	1:263:A:LYS:HD2	1:263:A:LYS:HD3	13	99.77
(1,420)	1:257:A:ILE:CB	1:257:A:ILE:CD1	1:257:A:ILE:HG12	1:257:A:ILE:HG13	17	99.77
(1,417)	1:256:A:HIS:CA	1:256:A:HIS:CG	1:256:A:HIS:HB2	1:256:A:HIS:HB3	5	99.77
(1,380)	1:241:A:GLN:CB	1:241:A:GLN:CD	1:241:A:GLN:HG2	1:241:A:GLN:HG3	7	99.77
(1,379)	1:241:A:GLN:CA	1:241:A:GLN:CG	1:241:A:GLN:HB2	1:241:A:GLN:HB3	12	99.77
(1,468)	2:3:B:G:C4'	2:3:B:G:O5'	2:3:B:G:H5'	2:3:B:G:H5''	1	99.76
(1,427)	1:261:A:GLU:CA	1:261:A:GLU:CG	1:261:A:GLU:HB2	1:261:A:GLU:HB3	8	99.76
(1,420)	1:257:A:ILE:CB	1:257:A:ILE:CD1	1:257:A:ILE:HG12	1:257:A:ILE:HG13	6	99.76
(1,380)	1:241:A:GLN:CB	1:241:A:GLN:CD	1:241:A:GLN:HG2	1:241:A:GLN:HG3	18	99.76
(1,379)	1:241:A:GLN:CA	1:241:A:GLN:CG	1:241:A:GLN:HB2	1:241:A:GLN:HB3	17	99.76
(1,356)	1:229:A:PHE:CA	1:229:A:PHE:CG	1:229:A:PHE:HB2	1:229:A:PHE:HB3	15	99.76
(1,439)	1:264:A:HIS:CA	1:264:A:HIS:CG	1:264:A:HIS:HB2	1:264:A:HIS:HB3	11	99.75
(1,452)	1:269:A:GLN:CB	1:269:A:GLN:CD	1:269:A:GLN:HG2	1:269:A:GLN:HG3	2	99.74
(1,437)	1:263:A:LYS:CG	1:263:A:LYS:CE	1:263:A:LYS:HD2	1:263:A:LYS:HD3	12	99.74
(1,395)	1:248:A:LEU:CA	1:248:A:LEU:CG	1:248:A:LEU:HB2	1:248:A:LEU:HB3	8	99.74
(1,380)	1:241:A:GLN:CB	1:241:A:GLN:CD	1:241:A:GLN:HG2	1:241:A:GLN:HG3	10	99.74
(1,380)	1:241:A:GLN:CB	1:241:A:GLN:CD	1:241:A:GLN:HG2	1:241:A:GLN:HG3	11	99.74
(1,359)	1:231:A:PHE:CA	1:231:A:PHE:CG	1:231:A:PHE:HB2	1:231:A:PHE:HB3	4	99.74
(1,359)	1:231:A:PHE:CA	1:231:A:PHE:CG	1:231:A:PHE:HB2	1:231:A:PHE:HB3	9	99.74
(1,439)	1:264:A:HIS:CA	1:264:A:HIS:CG	1:264:A:HIS:HB2	1:264:A:HIS:HB3	14	99.73
(1,409)	1:252:A:GLY:N	1:252:A:GLY:C	1:252:A:GLY:HA2	1:252:A:GLY:HA3	5	99.73
(1,409)	1:252:A:GLY:N	1:252:A:GLY:C	1:252:A:GLY:HA2	1:252:A:GLY:HA3	15	99.73
(1,379)	1:241:A:GLN:CA	1:241:A:GLN:CG	1:241:A:GLN:HB2	1:241:A:GLN:HB3	9	99.73
(1,434)	1:263:A:LYS:CA	1:263:A:LYS:CG	1:263:A:LYS:HB2	1:263:A:LYS:HB3	19	99.72
(1,409)	1:252:A:GLY:N	1:252:A:GLY:C	1:252:A:GLY:HA2	1:252:A:GLY:HA3	9	99.72
(1,393)	1:247:A:ASP:CA	1:247:A:ASP:CG	1:247:A:ASP:HB2	1:247:A:ASP:HB3	11	99.72
(1,391)	1:246:A:GLU:CB	1:246:A:GLU:CD	1:246:A:GLU:HG2	1:246:A:GLU:HG3	15	99.72
(1,387)	1:244:A:CYS:CA	1:244:A:CYS:SG	1:244:A:CYS:HB2	1:244:A:CYS:HB3	9	99.72
(1,387)	1:244:A:CYS:CA	1:244:A:CYS:SG	1:244:A:CYS:HB2	1:244:A:CYS:HB3	14	99.72
(1,380)	1:241:A:GLN:CB	1:241:A:GLN:CD	1:241:A:GLN:HG2	1:241:A:GLN:HG3	17	99.72
(1,372)	1:238:A:GLN:CA	1:238:A:GLN:CG	1:238:A:GLN:HB2	1:238:A:GLN:HB3	14	99.72
(1,356)	1:229:A:PHE:CA	1:229:A:PHE:CG	1:229:A:PHE:HB2	1:229:A:PHE:HB3	8	99.72
(1,474)	2:5:B:G:C2'	2:5:B:G:O4'	2:5:B:G:N9	2:5:B:G:H1'	6	99.71
(1,436)	1:263:A:LYS:CD	1:263:A:LYS:NZ	1:263:A:LYS:HE2	1:263:A:LYS:HE3	6	99.71
(1,417)	1:256:A:HIS:CA	1:256:A:HIS:CG	1:256:A:HIS:HB2	1:256:A:HIS:HB3	7	99.71
(1,417)	1:256:A:HIS:CA	1:256:A:HIS:CG	1:256:A:HIS:HB2	1:256:A:HIS:HB3	8	99.71
(1,417)	1:256:A:HIS:CA	1:256:A:HIS:CG	1:256:A:HIS:HB2	1:256:A:HIS:HB3	11	99.71
(1,409)	1:252:A:GLY:N	1:252:A:GLY:C	1:252:A:GLY:HA2	1:252:A:GLY:HA3	17	99.71
(1,365)	1:234:A:PHE:CA	1:234:A:PHE:CG	1:234:A:PHE:HB2	1:234:A:PHE:HB3	16	99.71

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,359)	1:231:A:PHE:CA	1:231:A:PHE:CG	1:231:A:PHE:HB2	1:231:A:PHE:HB3	7	99.71
(1,359)	1:231:A:PHE:CA	1:231:A:PHE:CG	1:231:A:PHE:HB2	1:231:A:PHE:HB3	18	99.71
(1,451)	1:269:A:GLN:CA	1:269:A:GLN:CG	1:269:A:GLN:HB2	1:269:A:GLN:HB3	2	99.7
(1,411)	1:253:A:ILE:CB	1:253:A:ILE:CD1	1:253:A:ILE:HG12	1:253:A:ILE:HG13	15	99.7
(1,379)	1:241:A:GLN:CA	1:241:A:GLN:CG	1:241:A:GLN:HB2	1:241:A:GLN:HB3	11	99.7
(1,365)	1:234:A:PHE:CA	1:234:A:PHE:CG	1:234:A:PHE:HB2	1:234:A:PHE:HB3	17	99.7
(1,447)	1:268:A:ARG:CA	1:268:A:ARG:CG	1:268:A:ARG:HB2	1:268:A:ARG:HB3	18	99.69
(1,441)	1:265:A:ASN:CA	1:265:A:ASN:CG	1:265:A:ASN:HB2	1:265:A:ASN:HB3	12	99.69
(1,439)	1:264:A:HIS:CA	1:264:A:HIS:CG	1:264:A:HIS:HB2	1:264:A:HIS:HB3	18	99.69
(1,437)	1:263:A:LYS:CG	1:263:A:LYS:CE	1:263:A:LYS:HD2	1:263:A:LYS:HD3	19	99.69
(1,445)	1:267:A:ASN:CA	1:267:A:ASN:CG	1:267:A:ASN:HB2	1:267:A:ASN:HB3	6	99.68
(1,428)	1:261:A:GLU:CB	1:261:A:GLU:CD	1:261:A:GLU:HG2	1:261:A:GLU:HG3	9	99.68
(1,380)	1:241:A:GLN:CB	1:241:A:GLN:CD	1:241:A:GLN:HG2	1:241:A:GLN:HG3	16	99.68
(1,372)	1:238:A:GLN:CA	1:238:A:GLN:CG	1:238:A:GLN:HB2	1:238:A:GLN:HB3	13	99.67
(1,447)	1:268:A:ARG:CA	1:268:A:ARG:CG	1:268:A:ARG:HB2	1:268:A:ARG:HB3	8	99.66
(1,445)	1:267:A:ASN:CA	1:267:A:ASN:CG	1:267:A:ASN:HB2	1:267:A:ASN:HB3	7	99.66
(1,441)	1:265:A:ASN:CA	1:265:A:ASN:CG	1:265:A:ASN:HB2	1:265:A:ASN:HB3	17	99.66
(1,409)	1:252:A:GLY:N	1:252:A:GLY:C	1:252:A:GLY:HA2	1:252:A:GLY:HA3	12	99.66
(1,393)	1:247:A:ASP:CA	1:247:A:ASP:CG	1:247:A:ASP:HB2	1:247:A:ASP:HB3	15	99.66
(1,384)	1:243:A:LEU:CA	1:243:A:LEU:CG	1:243:A:LEU:HB2	1:243:A:LEU:HB3	16	99.66
(1,379)	1:241:A:GLN:CA	1:241:A:GLN:CG	1:241:A:GLN:HB2	1:241:A:GLN:HB3	5	99.66
(1,359)	1:231:A:PHE:CA	1:231:A:PHE:CG	1:231:A:PHE:HB2	1:231:A:PHE:HB3	12	99.66
(1,468)	2:3:B:G:C4'	2:3:B:G:O5'	2:3:B:G:H5'	2:3:B:G:H5''	4	99.65
(1,468)	2:3:B:G:C4'	2:3:B:G:O5'	2:3:B:G:H5'	2:3:B:G:H5''	20	99.65
(1,420)	1:257:A:ILE:CB	1:257:A:ILE:CD1	1:257:A:ILE:HG12	1:257:A:ILE:HG13	2	99.65
(1,417)	1:256:A:HIS:CA	1:256:A:HIS:CG	1:256:A:HIS:HB2	1:256:A:HIS:HB3	4	99.65
(1,387)	1:244:A:CYS:CA	1:244:A:CYS:SG	1:244:A:CYS:HB2	1:244:A:CYS:HB3	16	99.65
(1,384)	1:243:A:LEU:CA	1:243:A:LEU:CG	1:243:A:LEU:HB2	1:243:A:LEU:HB3	14	99.65
(1,365)	1:234:A:PHE:CA	1:234:A:PHE:CG	1:234:A:PHE:HB2	1:234:A:PHE:HB3	7	99.65
(1,359)	1:231:A:PHE:CA	1:231:A:PHE:CG	1:231:A:PHE:HB2	1:231:A:PHE:HB3	16	99.65
(1,356)	1:229:A:PHE:CA	1:229:A:PHE:CG	1:229:A:PHE:HB2	1:229:A:PHE:HB3	20	99.65
(1,447)	1:268:A:ARG:CA	1:268:A:ARG:CG	1:268:A:ARG:HB2	1:268:A:ARG:HB3	14	99.64
(1,409)	1:252:A:GLY:N	1:252:A:GLY:C	1:252:A:GLY:HA2	1:252:A:GLY:HA3	1	99.64
(1,387)	1:244:A:CYS:CA	1:244:A:CYS:SG	1:244:A:CYS:HB2	1:244:A:CYS:HB3	11	99.64
(1,384)	1:243:A:LEU:CA	1:243:A:LEU:CG	1:243:A:LEU:HB2	1:243:A:LEU:HB3	8	99.64
(1,380)	1:241:A:GLN:CB	1:241:A:GLN:CD	1:241:A:GLN:HG2	1:241:A:GLN:HG3	9	99.64
(1,380)	1:241:A:GLN:CB	1:241:A:GLN:CD	1:241:A:GLN:HG2	1:241:A:GLN:HG3	13	99.64
(1,380)	1:241:A:GLN:CB	1:241:A:GLN:CD	1:241:A:GLN:HG2	1:241:A:GLN:HG3	19	99.64
(1,379)	1:241:A:GLN:CA	1:241:A:GLN:CG	1:241:A:GLN:HB2	1:241:A:GLN:HB3	8	99.64
(1,379)	1:241:A:GLN:CA	1:241:A:GLN:CG	1:241:A:GLN:HB2	1:241:A:GLN:HB3	14	99.64
(1,372)	1:238:A:GLN:CA	1:238:A:GLN:CG	1:238:A:GLN:HB2	1:238:A:GLN:HB3	6	99.64
(1,372)	1:238:A:GLN:CA	1:238:A:GLN:CG	1:238:A:GLN:HB2	1:238:A:GLN:HB3	11	99.64
(1,349)	1:226:A:PHE:CA	1:226:A:PHE:CG	1:226:A:PHE:HB2	1:226:A:PHE:HB3	3	99.64
(1,483)	2:6:B:A:C4'	2:6:B:A:O5'	2:6:B:A:H5'	2:6:B:A:H5''	20	99.63
(1,441)	1:265:A:ASN:CA	1:265:A:ASN:CG	1:265:A:ASN:HB2	1:265:A:ASN:HB3	15	99.63
(1,384)	1:243:A:LEU:CA	1:243:A:LEU:CG	1:243:A:LEU:HB2	1:243:A:LEU:HB3	2	99.63
(1,372)	1:238:A:GLN:CA	1:238:A:GLN:CG	1:238:A:GLN:HB2	1:238:A:GLN:HB3	3	99.63
(1,352)	1:227:A:ARG:CB	1:227:A:ARG:CD	1:227:A:ARG:HG2	1:227:A:ARG:HG3	13	99.63
(1,445)	1:267:A:ASN:CA	1:267:A:ASN:CG	1:267:A:ASN:HB2	1:267:A:ASN:HB3	2	99.62
(1,441)	1:265:A:ASN:CA	1:265:A:ASN:CG	1:265:A:ASN:HB2	1:265:A:ASN:HB3	9	99.62
(1,439)	1:264:A:HIS:CA	1:264:A:HIS:CG	1:264:A:HIS:HB2	1:264:A:HIS:HB3	17	99.62

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,359)	1:231:A:PHE:CA	1:231:A:PHE:CG	1:231:A:PHE:HB2	1:231:A:PHE:HB3	14	99.62
(1,356)	1:229:A:PHE:CA	1:229:A:PHE:CG	1:229:A:PHE:HB2	1:229:A:PHE:HB3	16	99.62
(1,352)	1:227:A:ARG:CB	1:227:A:ARG:CD	1:227:A:ARG:HG2	1:227:A:ARG:HG3	15	99.62
(1,448)	1:268:A:ARG:CB	1:268:A:ARG:CD	1:268:A:ARG:HG2	1:268:A:ARG:HG3	11	99.61
(1,427)	1:261:A:GLU:CA	1:261:A:GLU:CG	1:261:A:GLU:HB2	1:261:A:GLU:HB3	4	99.61
(1,417)	1:256:A:HIS:CA	1:256:A:HIS:CG	1:256:A:HIS:HB2	1:256:A:HIS:HB3	1	99.61
(1,411)	1:253:A:ILE:CB	1:253:A:ILE:CD1	1:253:A:ILE:HG12	1:253:A:ILE:HG13	16	99.61
(1,391)	1:246:A:GLU:CB	1:246:A:GLU:CD	1:246:A:GLU:HG2	1:246:A:GLU:HG3	9	99.61
(1,391)	1:246:A:GLU:CB	1:246:A:GLU:CD	1:246:A:GLU:HG2	1:246:A:GLU:HG3	19	99.61
(1,387)	1:244:A:CYS:CA	1:244:A:CYS:SG	1:244:A:CYS:HB2	1:244:A:CYS:HB3	13	99.61
(1,359)	1:231:A:PHE:CA	1:231:A:PHE:CG	1:231:A:PHE:HB2	1:231:A:PHE:HB3	15	99.61
(1,452)	1:269:A:GLN:CB	1:269:A:GLN:CD	1:269:A:GLN:HG2	1:269:A:GLN:HG3	3	99.6
(1,439)	1:264:A:HIS:CA	1:264:A:HIS:CG	1:264:A:HIS:HB2	1:264:A:HIS:HB3	8	99.6
(1,439)	1:264:A:HIS:CA	1:264:A:HIS:CG	1:264:A:HIS:HB2	1:264:A:HIS:HB3	16	99.6
(1,437)	1:263:A:LYS:CG	1:263:A:LYS:CE	1:263:A:LYS:HD2	1:263:A:LYS:HD3	11	99.6
(1,439)	1:264:A:HIS:CA	1:264:A:HIS:CG	1:264:A:HIS:HB2	1:264:A:HIS:HB3	10	99.59
(1,384)	1:243:A:LEU:CA	1:243:A:LEU:CG	1:243:A:LEU:HB2	1:243:A:LEU:HB3	13	99.59
(1,380)	1:241:A:GLN:CB	1:241:A:GLN:CD	1:241:A:GLN:HG2	1:241:A:GLN:HG3	6	99.59
(1,372)	1:238:A:GLN:CA	1:238:A:GLN:CG	1:238:A:GLN:HB2	1:238:A:GLN:HB3	4	99.59
(1,372)	1:238:A:GLN:CA	1:238:A:GLN:CG	1:238:A:GLN:HB2	1:238:A:GLN:HB3	5	99.59
(1,372)	1:238:A:GLN:CA	1:238:A:GLN:CG	1:238:A:GLN:HB2	1:238:A:GLN:HB3	15	99.59
(1,368)	1:236:A:ASP:CA	1:236:A:ASP:CG	1:236:A:ASP:HB2	1:236:A:ASP:HB3	7	99.59
(1,451)	1:269:A:GLN:CA	1:269:A:GLN:CG	1:269:A:GLN:HB2	1:269:A:GLN:HB3	5	99.58
(1,448)	1:268:A:ARG:CB	1:268:A:ARG:CD	1:268:A:ARG:HG2	1:268:A:ARG:HG3	17	99.58
(1,439)	1:264:A:HIS:CA	1:264:A:HIS:CG	1:264:A:HIS:HB2	1:264:A:HIS:HB3	2	99.58
(1,428)	1:261:A:GLU:CB	1:261:A:GLU:CD	1:261:A:GLU:HG2	1:261:A:GLU:HG3	3	99.58
(1,424)	1:259:A:ASN:CA	1:259:A:ASN:CG	1:259:A:ASN:HB2	1:259:A:ASN:HB3	17	99.58
(1,417)	1:256:A:HIS:CA	1:256:A:HIS:CG	1:256:A:HIS:HB2	1:256:A:HIS:HB3	2	99.58
(1,411)	1:253:A:ILE:CB	1:253:A:ILE:CD1	1:253:A:ILE:HG12	1:253:A:ILE:HG13	12	99.58
(1,409)	1:252:A:GLY:N	1:252:A:GLY:C	1:252:A:GLY:HA2	1:252:A:GLY:HA3	18	99.58
(1,395)	1:248:A:LEU:CA	1:248:A:LEU:CG	1:248:A:LEU:HB2	1:248:A:LEU:HB3	13	99.58
(1,391)	1:246:A:GLU:CB	1:246:A:GLU:CD	1:246:A:GLU:HG2	1:246:A:GLU:HG3	1	99.58
(1,380)	1:241:A:GLN:CB	1:241:A:GLN:CD	1:241:A:GLN:HG2	1:241:A:GLN:HG3	20	99.58
(1,372)	1:238:A:GLN:CA	1:238:A:GLN:CG	1:238:A:GLN:HB2	1:238:A:GLN:HB3	9	99.58
(1,370)	1:237:A:ASP:CA	1:237:A:ASP:CG	1:237:A:ASP:HB2	1:237:A:ASP:HB3	16	99.58
(1,359)	1:231:A:PHE:CA	1:231:A:PHE:CG	1:231:A:PHE:HB2	1:231:A:PHE:HB3	11	99.58
(1,356)	1:229:A:PHE:CA	1:229:A:PHE:CG	1:229:A:PHE:HB2	1:229:A:PHE:HB3	13	99.58
(1,451)	1:269:A:GLN:CA	1:269:A:GLN:CG	1:269:A:GLN:HB2	1:269:A:GLN:HB3	9	99.57
(1,445)	1:267:A:ASN:CA	1:267:A:ASN:CG	1:267:A:ASN:HB2	1:267:A:ASN:HB3	5	99.57
(1,439)	1:264:A:HIS:CA	1:264:A:HIS:CG	1:264:A:HIS:HB2	1:264:A:HIS:HB3	1	99.57
(1,439)	1:264:A:HIS:CA	1:264:A:HIS:CG	1:264:A:HIS:HB2	1:264:A:HIS:HB3	7	99.57
(1,434)	1:263:A:LYS:CA	1:263:A:LYS:CG	1:263:A:LYS:HB2	1:263:A:LYS:HB3	20	99.57
(1,380)	1:241:A:GLN:CB	1:241:A:GLN:CD	1:241:A:GLN:HG2	1:241:A:GLN:HG3	14	99.57
(1,379)	1:241:A:GLN:CA	1:241:A:GLN:CG	1:241:A:GLN:HB2	1:241:A:GLN:HB3	3	99.57
(1,379)	1:241:A:GLN:CA	1:241:A:GLN:CG	1:241:A:GLN:HB2	1:241:A:GLN:HB3	10	99.57
(1,508)	2:11:B:A:C4'	2:11:B:A:O5'	2:11:B:A:H5'	2:11:B:A:H5''	15	99.56
(1,439)	1:264:A:HIS:CA	1:264:A:HIS:CG	1:264:A:HIS:HB2	1:264:A:HIS:HB3	20	99.56
(1,372)	1:238:A:GLN:CA	1:238:A:GLN:CG	1:238:A:GLN:HB2	1:238:A:GLN:HB3	7	99.56
(1,372)	1:238:A:GLN:CA	1:238:A:GLN:CG	1:238:A:GLN:HB2	1:238:A:GLN:HB3	16	99.56
(1,356)	1:229:A:PHE:CA	1:229:A:PHE:CG	1:229:A:PHE:HB2	1:229:A:PHE:HB3	10	99.56
(1,356)	1:229:A:PHE:CA	1:229:A:PHE:CG	1:229:A:PHE:HB2	1:229:A:PHE:HB3	11	99.56

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,356)	1:229:A:PHE:CA	1:229:A:PHE:CG	1:229:A:PHE:HB2	1:229:A:PHE:HB3	12	99.56
(1,353)	1:227:A:ARG:CG	1:227:A:ARG:NE	1:227:A:ARG:HD2	1:227:A:ARG:HD3	7	99.56
(1,488)	2:7:B:A:C4'	2:7:B:A:O5'	2:7:B:A:H5'	2:7:B:A:H5''	14	99.55
(1,447)	1:268:A:ARG:CA	1:268:A:ARG:CG	1:268:A:ARG:HB2	1:268:A:ARG:HB3	12	99.55
(1,391)	1:246:A:GLU:CB	1:246:A:GLU:CD	1:246:A:GLU:HG2	1:246:A:GLU:HG3	8	99.55
(1,488)	2:7:B:A:C4'	2:7:B:A:O5'	2:7:B:A:H5'	2:7:B:A:H5''	13	99.54
(1,448)	1:268:A:ARG:CB	1:268:A:ARG:CD	1:268:A:ARG:HG2	1:268:A:ARG:HG3	7	99.54
(1,441)	1:265:A:ASN:CA	1:265:A:ASN:CG	1:265:A:ASN:HB2	1:265:A:ASN:HB3	20	99.54
(1,434)	1:263:A:LYS:CA	1:263:A:LYS:CG	1:263:A:LYS:HB2	1:263:A:LYS:HB3	6	99.54
(1,424)	1:259:A:ASN:CA	1:259:A:ASN:CG	1:259:A:ASN:HB2	1:259:A:ASN:HB3	9	99.54
(1,395)	1:248:A:LEU:CA	1:248:A:LEU:CG	1:248:A:LEU:HB2	1:248:A:LEU:HB3	4	99.54
(1,391)	1:246:A:GLU:CB	1:246:A:GLU:CD	1:246:A:GLU:HG2	1:246:A:GLU:HG3	4	99.54
(1,391)	1:246:A:GLU:CB	1:246:A:GLU:CD	1:246:A:GLU:HG2	1:246:A:GLU:HG3	20	99.54
(1,372)	1:238:A:GLN:CA	1:238:A:GLN:CG	1:238:A:GLN:HB2	1:238:A:GLN:HB3	2	99.54
(1,372)	1:238:A:GLN:CA	1:238:A:GLN:CG	1:238:A:GLN:HB2	1:238:A:GLN:HB3	17	99.54
(1,370)	1:237:A:ASP:CA	1:237:A:ASP:CG	1:237:A:ASP:HB2	1:237:A:ASP:HB3	4	99.54
(1,468)	2:3:B:G:C4'	2:3:B:G:O5'	2:3:B:G:H5'	2:3:B:G:H5''	15	99.53
(1,451)	1:269:A:GLN:CA	1:269:A:GLN:CG	1:269:A:GLN:HB2	1:269:A:GLN:HB3	3	99.53
(1,417)	1:256:A:HIS:CA	1:256:A:HIS:CG	1:256:A:HIS:HB2	1:256:A:HIS:HB3	13	99.53
(1,417)	1:256:A:HIS:CA	1:256:A:HIS:CG	1:256:A:HIS:HB2	1:256:A:HIS:HB3	16	99.53
(1,393)	1:247:A:ASP:CA	1:247:A:ASP:CG	1:247:A:ASP:HB2	1:247:A:ASP:HB3	17	99.53
(1,365)	1:234:A:PHE:CA	1:234:A:PHE:CG	1:234:A:PHE:HB2	1:234:A:PHE:HB3	9	99.53
(1,359)	1:231:A:PHE:CA	1:231:A:PHE:CG	1:231:A:PHE:HB2	1:231:A:PHE:HB3	8	99.53
(1,468)	2:3:B:G:C4'	2:3:B:G:O5'	2:3:B:G:H5'	2:3:B:G:H5''	7	99.52
(1,451)	1:269:A:GLN:CA	1:269:A:GLN:CG	1:269:A:GLN:HB2	1:269:A:GLN:HB3	10	99.52
(1,441)	1:265:A:ASN:CA	1:265:A:ASN:CG	1:265:A:ASN:HB2	1:265:A:ASN:HB3	1	99.52
(1,439)	1:264:A:HIS:CA	1:264:A:HIS:CG	1:264:A:HIS:HB2	1:264:A:HIS:HB3	3	99.52
(1,420)	1:257:A:ILE:CB	1:257:A:ILE:CD1	1:257:A:ILE:HG12	1:257:A:ILE:HG13	3	99.52
(1,405)	1:251:A:LYS:CB	1:251:A:LYS:CD	1:251:A:LYS:HG2	1:251:A:LYS:HG3	18	99.52
(1,387)	1:244:A:CYS:CA	1:244:A:CYS:SG	1:244:A:CYS:HB2	1:244:A:CYS:HB3	15	99.52
(1,483)	2:6:B:A:C4'	2:6:B:A:O5'	2:6:B:A:H5'	2:6:B:A:H5''	3	99.51
(1,452)	1:269:A:GLN:CB	1:269:A:GLN:CD	1:269:A:GLN:HG2	1:269:A:GLN:HG3	8	99.51
(1,452)	1:269:A:GLN:CB	1:269:A:GLN:CD	1:269:A:GLN:HG2	1:269:A:GLN:HG3	16	99.51
(1,427)	1:261:A:GLU:CA	1:261:A:GLU:CG	1:261:A:GLU:HB2	1:261:A:GLU:HB3	7	99.51
(1,427)	1:261:A:GLU:CA	1:261:A:GLU:CG	1:261:A:GLU:HB2	1:261:A:GLU:HB3	14	99.51
(1,417)	1:256:A:HIS:CA	1:256:A:HIS:CG	1:256:A:HIS:HB2	1:256:A:HIS:HB3	19	99.51
(1,411)	1:253:A:ILE:CB	1:253:A:ILE:CD1	1:253:A:ILE:HG12	1:253:A:ILE:HG13	17	99.51
(1,405)	1:251:A:LYS:CB	1:251:A:LYS:CD	1:251:A:LYS:HG2	1:251:A:LYS:HG3	9	99.51
(1,395)	1:248:A:LEU:CA	1:248:A:LEU:CG	1:248:A:LEU:HB2	1:248:A:LEU:HB3	19	99.51
(1,380)	1:241:A:GLN:CB	1:241:A:GLN:CD	1:241:A:GLN:HG2	1:241:A:GLN:HG3	15	99.51
(1,365)	1:234:A:PHE:CA	1:234:A:PHE:CG	1:234:A:PHE:HB2	1:234:A:PHE:HB3	2	99.51
(1,365)	1:234:A:PHE:CA	1:234:A:PHE:CG	1:234:A:PHE:HB2	1:234:A:PHE:HB3	15	99.51
(1,356)	1:229:A:PHE:CA	1:229:A:PHE:CG	1:229:A:PHE:HB2	1:229:A:PHE:HB3	6	99.51
(1,349)	1:226:A:PHE:CA	1:226:A:PHE:CG	1:226:A:PHE:HB2	1:226:A:PHE:HB3	18	99.51
(1,447)	1:268:A:ARG:CA	1:268:A:ARG:CG	1:268:A:ARG:HB2	1:268:A:ARG:HB3	16	99.5
(1,379)	1:241:A:GLN:CA	1:241:A:GLN:CG	1:241:A:GLN:HB2	1:241:A:GLN:HB3	19	99.5
(1,372)	1:238:A:GLN:CA	1:238:A:GLN:CG	1:238:A:GLN:HB2	1:238:A:GLN:HB3	18	99.5
(1,370)	1:237:A:ASP:CA	1:237:A:ASP:CG	1:237:A:ASP:HB2	1:237:A:ASP:HB3	20	99.5
(1,488)	2:7:B:A:C4'	2:7:B:A:O5'	2:7:B:A:H5'	2:7:B:A:H5''	6	99.49
(1,445)	1:267:A:ASN:CA	1:267:A:ASN:CG	1:267:A:ASN:HB2	1:267:A:ASN:HB3	13	99.49
(1,372)	1:238:A:GLN:CA	1:238:A:GLN:CG	1:238:A:GLN:HB2	1:238:A:GLN:HB3	8	99.49

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,349)	1:226:A:PHE:CA	1:226:A:PHE:CG	1:226:A:PHE:HB2	1:226:A:PHE:HB3	12	99.49
(1,477)	2:5:B:G:C3'	2:5:B:G:C5'	2:5:B:G:O4'	2:5:B:G:H4'	4	99.48
(1,428)	1:261:A:GLU:CB	1:261:A:GLU:CD	1:261:A:GLU:HG2	1:261:A:GLU:HG3	8	99.48
(1,428)	1:261:A:GLU:CB	1:261:A:GLU:CD	1:261:A:GLU:HG2	1:261:A:GLU:HG3	19	99.48
(1,405)	1:251:A:LYS:CB	1:251:A:LYS:CD	1:251:A:LYS:HG2	1:251:A:LYS:HG3	20	99.48
(1,395)	1:248:A:LEU:CA	1:248:A:LEU:CG	1:248:A:LEU:HB2	1:248:A:LEU:HB3	10	99.48
(1,391)	1:246:A:GLU:CB	1:246:A:GLU:CD	1:246:A:GLU:HG2	1:246:A:GLU:HG3	2	99.48
(1,372)	1:238:A:GLN:CA	1:238:A:GLN:CG	1:238:A:GLN:HB2	1:238:A:GLN:HB3	1	99.48
(1,372)	1:238:A:GLN:CA	1:238:A:GLN:CG	1:238:A:GLN:HB2	1:238:A:GLN:HB3	10	99.48
(1,365)	1:234:A:PHE:CA	1:234:A:PHE:CG	1:234:A:PHE:HB2	1:234:A:PHE:HB3	13	99.48
(1,356)	1:229:A:PHE:CA	1:229:A:PHE:CG	1:229:A:PHE:HB2	1:229:A:PHE:HB3	4	99.48
(1,445)	1:267:A:ASN:CA	1:267:A:ASN:CG	1:267:A:ASN:HB2	1:267:A:ASN:HB3	17	99.47
(1,424)	1:259:A:ASN:CA	1:259:A:ASN:CG	1:259:A:ASN:HB2	1:259:A:ASN:HB3	4	99.47
(1,420)	1:257:A:ILE:CB	1:257:A:ILE:CD1	1:257:A:ILE:HG12	1:257:A:ILE:HG13	9	99.47
(1,372)	1:238:A:GLN:CA	1:238:A:GLN:CG	1:238:A:GLN:HB2	1:238:A:GLN:HB3	19	99.47
(1,370)	1:237:A:ASP:CA	1:237:A:ASP:CG	1:237:A:ASP:HB2	1:237:A:ASP:HB3	2	99.47
(1,365)	1:234:A:PHE:CA	1:234:A:PHE:CG	1:234:A:PHE:HB2	1:234:A:PHE:HB3	14	99.47
(1,359)	1:231:A:PHE:CA	1:231:A:PHE:CG	1:231:A:PHE:HB2	1:231:A:PHE:HB3	6	99.47
(1,352)	1:227:A:ARG:CB	1:227:A:ARG:CD	1:227:A:ARG:HG2	1:227:A:ARG:HG3	14	99.47
(1,451)	1:269:A:GLN:CA	1:269:A:GLN:CG	1:269:A:GLN:HB2	1:269:A:GLN:HB3	8	99.46
(1,451)	1:269:A:GLN:CA	1:269:A:GLN:CG	1:269:A:GLN:HB2	1:269:A:GLN:HB3	14	99.46
(1,447)	1:268:A:ARG:CA	1:268:A:ARG:CG	1:268:A:ARG:HB2	1:268:A:ARG:HB3	10	99.46
(1,427)	1:261:A:GLU:CA	1:261:A:GLU:CG	1:261:A:GLU:HB2	1:261:A:GLU:HB3	9	99.46
(1,411)	1:253:A:ILE:CB	1:253:A:ILE:CD1	1:253:A:ILE:HG12	1:253:A:ILE:HG13	9	99.46
(1,384)	1:243:A:LEU:CA	1:243:A:LEU:CG	1:243:A:LEU:HB2	1:243:A:LEU:HB3	17	99.46
(1,365)	1:234:A:PHE:CA	1:234:A:PHE:CG	1:234:A:PHE:HB2	1:234:A:PHE:HB3	5	99.46
(1,439)	1:264:A:HIS:CA	1:264:A:HIS:CG	1:264:A:HIS:HB2	1:264:A:HIS:HB3	13	99.45
(1,435)	1:263:A:LYS:CB	1:263:A:LYS:CD	1:263:A:LYS:HG2	1:263:A:LYS:HG3	15	99.45
(1,370)	1:237:A:ASP:CA	1:237:A:ASP:CG	1:237:A:ASP:HB2	1:237:A:ASP:HB3	3	99.45
(1,488)	2:7:B:A:C4'	2:7:B:A:O5'	2:7:B:A:H5'	2:7:B:A:H5''	7	99.44
(1,477)	2:5:B:G:C3'	2:5:B:G:C5'	2:5:B:G:O4'	2:5:B:G:H4'	18	99.44
(1,445)	1:267:A:ASN:CA	1:267:A:ASN:CG	1:267:A:ASN:HB2	1:267:A:ASN:HB3	3	99.44
(1,420)	1:257:A:ILE:CB	1:257:A:ILE:CD1	1:257:A:ILE:HG12	1:257:A:ILE:HG13	14	99.44
(1,405)	1:251:A:LYS:CB	1:251:A:LYS:CD	1:251:A:LYS:HG2	1:251:A:LYS:HG3	19	99.44
(1,379)	1:241:A:GLN:CA	1:241:A:GLN:CG	1:241:A:GLN:HB2	1:241:A:GLN:HB3	1	99.44
(1,365)	1:234:A:PHE:CA	1:234:A:PHE:CG	1:234:A:PHE:HB2	1:234:A:PHE:HB3	19	99.44
(1,445)	1:267:A:ASN:CA	1:267:A:ASN:CG	1:267:A:ASN:HB2	1:267:A:ASN:HB3	12	99.43
(1,439)	1:264:A:HIS:CA	1:264:A:HIS:CG	1:264:A:HIS:HB2	1:264:A:HIS:HB3	19	99.43
(1,427)	1:261:A:GLU:CA	1:261:A:GLU:CG	1:261:A:GLU:HB2	1:261:A:GLU:HB3	15	99.43
(1,427)	1:261:A:GLU:CA	1:261:A:GLU:CG	1:261:A:GLU:HB2	1:261:A:GLU:HB3	19	99.43
(1,405)	1:251:A:LYS:CB	1:251:A:LYS:CD	1:251:A:LYS:HG2	1:251:A:LYS:HG3	17	99.43
(1,391)	1:246:A:GLU:CB	1:246:A:GLU:CD	1:246:A:GLU:HG2	1:246:A:GLU:HG3	18	99.43
(1,379)	1:241:A:GLN:CA	1:241:A:GLN:CG	1:241:A:GLN:HB2	1:241:A:GLN:HB3	15	99.43
(1,451)	1:269:A:GLN:CA	1:269:A:GLN:CG	1:269:A:GLN:HB2	1:269:A:GLN:HB3	1	99.42
(1,451)	1:269:A:GLN:CA	1:269:A:GLN:CG	1:269:A:GLN:HB2	1:269:A:GLN:HB3	4	99.42
(1,441)	1:265:A:ASN:CA	1:265:A:ASN:CG	1:265:A:ASN:HB2	1:265:A:ASN:HB3	11	99.42
(1,437)	1:263:A:LYS:CG	1:263:A:LYS:CE	1:263:A:LYS:HD2	1:263:A:LYS:HD3	16	99.42
(1,428)	1:261:A:GLU:CB	1:261:A:GLU:CD	1:261:A:GLU:HG2	1:261:A:GLU:HG3	14	99.42
(1,427)	1:261:A:GLU:CA	1:261:A:GLU:CG	1:261:A:GLU:HB2	1:261:A:GLU:HB3	16	99.42
(1,424)	1:259:A:ASN:CA	1:259:A:ASN:CG	1:259:A:ASN:HB2	1:259:A:ASN:HB3	2	99.42
(1,411)	1:253:A:ILE:CB	1:253:A:ILE:CD1	1:253:A:ILE:HG12	1:253:A:ILE:HG13	4	99.42

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,384)	1:243:A:LEU:CA	1:243:A:LEU:CG	1:243:A:LEU:HB2	1:243:A:LEU:HB3	15	99.42
(1,359)	1:231:A:PHE:CA	1:231:A:PHE:CG	1:231:A:PHE:HB2	1:231:A:PHE:HB3	2	99.42
(1,349)	1:226:A:PHE:CA	1:226:A:PHE:CG	1:226:A:PHE:HB2	1:226:A:PHE:HB3	7	99.42
(1,349)	1:226:A:PHE:CA	1:226:A:PHE:CG	1:226:A:PHE:HB2	1:226:A:PHE:HB3	13	99.42
(1,452)	1:269:A:GLN:CB	1:269:A:GLN:CD	1:269:A:GLN:HG2	1:269:A:GLN:HG3	10	99.41
(1,448)	1:268:A:ARG:CB	1:268:A:ARG:CD	1:268:A:ARG:HG2	1:268:A:ARG:HG3	2	99.41
(1,447)	1:268:A:ARG:CA	1:268:A:ARG:CG	1:268:A:ARG:HB2	1:268:A:ARG:HB3	15	99.41
(1,441)	1:265:A:ASN:CA	1:265:A:ASN:CG	1:265:A:ASN:HB2	1:265:A:ASN:HB3	16	99.41
(1,428)	1:261:A:GLU:CB	1:261:A:GLU:CD	1:261:A:GLU:HG2	1:261:A:GLU:HG3	12	99.41
(1,417)	1:256:A:HIS:CA	1:256:A:HIS:CG	1:256:A:HIS:HB2	1:256:A:HIS:HB3	14	99.41
(1,405)	1:251:A:LYS:CB	1:251:A:LYS:CD	1:251:A:LYS:HG2	1:251:A:LYS:HG3	15	99.41
(1,391)	1:246:A:GLU:CB	1:246:A:GLU:CD	1:246:A:GLU:HG2	1:246:A:GLU:HG3	11	99.41
(1,379)	1:241:A:GLN:CA	1:241:A:GLN:CG	1:241:A:GLN:HB2	1:241:A:GLN:HB3	6	99.41
(1,370)	1:237:A:ASP:CA	1:237:A:ASP:CG	1:237:A:ASP:HB2	1:237:A:ASP:HB3	1	99.41
(1,370)	1:237:A:ASP:CA	1:237:A:ASP:CG	1:237:A:ASP:HB2	1:237:A:ASP:HB3	10	99.41
(1,356)	1:229:A:PHE:CA	1:229:A:PHE:CG	1:229:A:PHE:HB2	1:229:A:PHE:HB3	17	99.41
(1,353)	1:227:A:ARG:CG	1:227:A:ARG:NE	1:227:A:ARG:HD2	1:227:A:ARG:HD3	16	99.41
(1,349)	1:226:A:PHE:CA	1:226:A:PHE:CG	1:226:A:PHE:HB2	1:226:A:PHE:HB3	14	99.41
(1,478)	2:5:B:G:C4'	2:5:B:G:O5'	2:5:B:G:H5'	2:5:B:G:H5''	2	99.4
(1,452)	1:269:A:GLN:CB	1:269:A:GLN:CD	1:269:A:GLN:HG2	1:269:A:GLN:HG3	11	99.4
(1,451)	1:269:A:GLN:CA	1:269:A:GLN:CG	1:269:A:GLN:HB2	1:269:A:GLN:HB3	13	99.4
(1,449)	1:268:A:ARG:CG	1:268:A:ARG:NE	1:268:A:ARG:HD2	1:268:A:ARG:HD3	18	99.4
(1,448)	1:268:A:ARG:CB	1:268:A:ARG:CD	1:268:A:ARG:HG2	1:268:A:ARG:HG3	13	99.4
(1,424)	1:259:A:ASN:CA	1:259:A:ASN:CG	1:259:A:ASN:HB2	1:259:A:ASN:HB3	13	99.4
(1,424)	1:259:A:ASN:CA	1:259:A:ASN:CG	1:259:A:ASN:HB2	1:259:A:ASN:HB3	18	99.4
(1,411)	1:253:A:ILE:CB	1:253:A:ILE:CD1	1:253:A:ILE:HG12	1:253:A:ILE:HG13	5	99.4
(1,405)	1:251:A:LYS:CB	1:251:A:LYS:CD	1:251:A:LYS:HG2	1:251:A:LYS:HG3	7	99.4
(1,405)	1:251:A:LYS:CB	1:251:A:LYS:CD	1:251:A:LYS:HG2	1:251:A:LYS:HG3	11	99.4
(1,356)	1:229:A:PHE:CA	1:229:A:PHE:CG	1:229:A:PHE:HB2	1:229:A:PHE:HB3	2	99.4
(1,356)	1:229:A:PHE:CA	1:229:A:PHE:CG	1:229:A:PHE:HB2	1:229:A:PHE:HB3	3	99.4
(1,353)	1:227:A:ARG:CG	1:227:A:ARG:NE	1:227:A:ARG:HD2	1:227:A:ARG:HD3	1	99.4
(1,445)	1:267:A:ASN:CA	1:267:A:ASN:CG	1:267:A:ASN:HB2	1:267:A:ASN:HB3	10	99.39
(1,439)	1:264:A:HIS:CA	1:264:A:HIS:CG	1:264:A:HIS:HB2	1:264:A:HIS:HB3	15	99.39
(1,427)	1:261:A:GLU:CA	1:261:A:GLU:CG	1:261:A:GLU:HB2	1:261:A:GLU:HB3	18	99.39
(1,405)	1:251:A:LYS:CB	1:251:A:LYS:CD	1:251:A:LYS:HG2	1:251:A:LYS:HG3	13	99.39
(1,404)	1:251:A:LYS:CA	1:251:A:LYS:CG	1:251:A:LYS:HB2	1:251:A:LYS:HB3	3	99.39
(1,391)	1:246:A:GLU:CB	1:246:A:GLU:CD	1:246:A:GLU:HG2	1:246:A:GLU:HG3	5	99.39
(1,424)	1:259:A:ASN:CA	1:259:A:ASN:CG	1:259:A:ASN:HB2	1:259:A:ASN:HB3	7	99.38
(1,411)	1:253:A:ILE:CB	1:253:A:ILE:CD1	1:253:A:ILE:HG12	1:253:A:ILE:HG13	8	99.38
(1,411)	1:253:A:ILE:CB	1:253:A:ILE:CD1	1:253:A:ILE:HG12	1:253:A:ILE:HG13	19	99.38
(1,384)	1:243:A:LEU:CA	1:243:A:LEU:CG	1:243:A:LEU:HB2	1:243:A:LEU:HB3	4	99.38
(1,372)	1:238:A:GLN:CA	1:238:A:GLN:CG	1:238:A:GLN:HB2	1:238:A:GLN:HB3	12	99.38
(1,452)	1:269:A:GLN:CB	1:269:A:GLN:CD	1:269:A:GLN:HG2	1:269:A:GLN:HG3	20	99.37
(1,451)	1:269:A:GLN:CA	1:269:A:GLN:CG	1:269:A:GLN:HB2	1:269:A:GLN:HB3	11	99.37
(1,434)	1:263:A:LYS:CA	1:263:A:LYS:CG	1:263:A:LYS:HB2	1:263:A:LYS:HB3	13	99.37
(1,417)	1:256:A:HIS:CA	1:256:A:HIS:CG	1:256:A:HIS:HB2	1:256:A:HIS:HB3	12	99.37
(1,402)	1:250:A:ILE:CB	1:250:A:ILE:CD1	1:250:A:ILE:HG12	1:250:A:ILE:HG13	15	99.37
(1,384)	1:243:A:LEU:CA	1:243:A:LEU:CG	1:243:A:LEU:HB2	1:243:A:LEU:HB3	19	99.37
(1,493)	2:8:B:U:C4'	2:8:B:U:O5'	2:8:B:U:H5'	2:8:B:U:H5''	14	99.36
(1,452)	1:269:A:GLN:CB	1:269:A:GLN:CD	1:269:A:GLN:HG2	1:269:A:GLN:HG3	14	99.36
(1,439)	1:264:A:HIS:CA	1:264:A:HIS:CG	1:264:A:HIS:HB2	1:264:A:HIS:HB3	4	99.36

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,428)	1:261:A:GLU:CB	1:261:A:GLU:CD	1:261:A:GLU:HG2	1:261:A:GLU:HG3	4	99.36
(1,411)	1:253:A:ILE:CB	1:253:A:ILE:CD1	1:253:A:ILE:HG12	1:253:A:ILE:HG13	1	99.36
(1,411)	1:253:A:ILE:CB	1:253:A:ILE:CD1	1:253:A:ILE:HG12	1:253:A:ILE:HG13	7	99.36
(1,370)	1:237:A:ASP:CA	1:237:A:ASP:CG	1:237:A:ASP:HB2	1:237:A:ASP:HB3	6	99.36
(1,365)	1:234:A:PHE:CA	1:234:A:PHE:CG	1:234:A:PHE:HB2	1:234:A:PHE:HB3	18	99.36
(1,365)	1:234:A:PHE:CA	1:234:A:PHE:CG	1:234:A:PHE:HB2	1:234:A:PHE:HB3	20	99.36
(1,448)	1:268:A:ARG:CB	1:268:A:ARG:CD	1:268:A:ARG:HG2	1:268:A:ARG:HG3	6	99.35
(1,447)	1:268:A:ARG:CA	1:268:A:ARG:CG	1:268:A:ARG:HB2	1:268:A:ARG:HB3	6	99.35
(1,439)	1:264:A:HIS:CA	1:264:A:HIS:CG	1:264:A:HIS:HB2	1:264:A:HIS:HB3	9	99.35
(1,428)	1:261:A:GLU:CB	1:261:A:GLU:CD	1:261:A:GLU:HG2	1:261:A:GLU:HG3	18	99.35
(1,411)	1:253:A:ILE:CB	1:253:A:ILE:CD1	1:253:A:ILE:HG12	1:253:A:ILE:HG13	14	99.35
(1,365)	1:234:A:PHE:CA	1:234:A:PHE:CG	1:234:A:PHE:HB2	1:234:A:PHE:HB3	1	99.35
(1,356)	1:229:A:PHE:CA	1:229:A:PHE:CG	1:229:A:PHE:HB2	1:229:A:PHE:HB3	19	99.35
(1,441)	1:265:A:ASN:CA	1:265:A:ASN:CG	1:265:A:ASN:HB2	1:265:A:ASN:HB3	3	99.34
(1,427)	1:261:A:GLU:CA	1:261:A:GLU:CG	1:261:A:GLU:HB2	1:261:A:GLU:HB3	1	99.34
(1,427)	1:261:A:GLU:CA	1:261:A:GLU:CG	1:261:A:GLU:HB2	1:261:A:GLU:HB3	6	99.34
(1,424)	1:259:A:ASN:CA	1:259:A:ASN:CG	1:259:A:ASN:HB2	1:259:A:ASN:HB3	16	99.34
(1,411)	1:253:A:ILE:CB	1:253:A:ILE:CD1	1:253:A:ILE:HG12	1:253:A:ILE:HG13	13	99.34
(1,405)	1:251:A:LYS:CB	1:251:A:LYS:CD	1:251:A:LYS:HG2	1:251:A:LYS:HG3	5	99.34
(1,372)	1:238:A:GLN:CA	1:238:A:GLN:CG	1:238:A:GLN:HB2	1:238:A:GLN:HB3	20	99.34
(1,452)	1:269:A:GLN:CB	1:269:A:GLN:CD	1:269:A:GLN:HG2	1:269:A:GLN:HG3	18	99.33
(1,447)	1:268:A:ARG:CA	1:268:A:ARG:CG	1:268:A:ARG:HB2	1:268:A:ARG:HB3	13	99.33
(1,445)	1:267:A:ASN:CA	1:267:A:ASN:CG	1:267:A:ASN:HB2	1:267:A:ASN:HB3	1	99.33
(1,427)	1:261:A:GLU:CA	1:261:A:GLU:CG	1:261:A:GLU:HB2	1:261:A:GLU:HB3	3	99.33
(1,411)	1:253:A:ILE:CB	1:253:A:ILE:CD1	1:253:A:ILE:HG12	1:253:A:ILE:HG13	18	99.33
(1,391)	1:246:A:GLU:CB	1:246:A:GLU:CD	1:246:A:GLU:HG2	1:246:A:GLU:HG3	7	99.33
(1,391)	1:246:A:GLU:CB	1:246:A:GLU:CD	1:246:A:GLU:HG2	1:246:A:GLU:HG3	16	99.33
(1,379)	1:241:A:GLN:CA	1:241:A:GLN:CG	1:241:A:GLN:HB2	1:241:A:GLN:HB3	18	99.33
(1,365)	1:234:A:PHE:CA	1:234:A:PHE:CG	1:234:A:PHE:HB2	1:234:A:PHE:HB3	4	99.33
(1,447)	1:268:A:ARG:CA	1:268:A:ARG:CG	1:268:A:ARG:HB2	1:268:A:ARG:HB3	3	99.32
(1,441)	1:265:A:ASN:CA	1:265:A:ASN:CG	1:265:A:ASN:HB2	1:265:A:ASN:HB3	10	99.32
(1,402)	1:250:A:ILE:CB	1:250:A:ILE:CD1	1:250:A:ILE:HG12	1:250:A:ILE:HG13	9	99.32
(1,395)	1:248:A:LEU:CA	1:248:A:LEU:CG	1:248:A:LEU:HB2	1:248:A:LEU:HB3	11	99.32
(1,365)	1:234:A:PHE:CA	1:234:A:PHE:CG	1:234:A:PHE:HB2	1:234:A:PHE:HB3	10	99.32
(1,353)	1:227:A:ARG:CG	1:227:A:ARG:NE	1:227:A:ARG:HD2	1:227:A:ARG:HD3	3	99.32
(1,351)	1:227:A:ARG:CA	1:227:A:ARG:CG	1:227:A:ARG:HB2	1:227:A:ARG:HB3	8	99.32
(1,447)	1:268:A:ARG:CA	1:268:A:ARG:CG	1:268:A:ARG:HB2	1:268:A:ARG:HB3	7	99.31
(1,441)	1:265:A:ASN:CA	1:265:A:ASN:CG	1:265:A:ASN:HB2	1:265:A:ASN:HB3	18	99.31
(1,427)	1:261:A:GLU:CA	1:261:A:GLU:CG	1:261:A:GLU:HB2	1:261:A:GLU:HB3	11	99.31
(1,405)	1:251:A:LYS:CB	1:251:A:LYS:CD	1:251:A:LYS:HG2	1:251:A:LYS:HG3	6	99.31
(1,405)	1:251:A:LYS:CB	1:251:A:LYS:CD	1:251:A:LYS:HG2	1:251:A:LYS:HG3	10	99.31
(1,404)	1:251:A:LYS:CA	1:251:A:LYS:CG	1:251:A:LYS:HB2	1:251:A:LYS:HB3	10	99.31
(1,391)	1:246:A:GLU:CB	1:246:A:GLU:CD	1:246:A:GLU:HG2	1:246:A:GLU:HG3	6	99.31
(1,379)	1:241:A:GLN:CA	1:241:A:GLN:CG	1:241:A:GLN:HB2	1:241:A:GLN:HB3	4	99.31
(1,379)	1:241:A:GLN:CA	1:241:A:GLN:CG	1:241:A:GLN:HB2	1:241:A:GLN:HB3	13	99.31
(1,356)	1:229:A:PHE:CA	1:229:A:PHE:CG	1:229:A:PHE:HB2	1:229:A:PHE:HB3	9	99.31
(1,353)	1:227:A:ARG:CG	1:227:A:ARG:NE	1:227:A:ARG:HD2	1:227:A:ARG:HD3	4	99.31
(1,448)	1:268:A:ARG:CB	1:268:A:ARG:CD	1:268:A:ARG:HG2	1:268:A:ARG:HG3	1	99.3
(1,441)	1:265:A:ASN:CA	1:265:A:ASN:CG	1:265:A:ASN:HB2	1:265:A:ASN:HB3	14	99.3
(1,439)	1:264:A:HIS:CA	1:264:A:HIS:CG	1:264:A:HIS:HB2	1:264:A:HIS:HB3	12	99.3
(1,428)	1:261:A:GLU:CB	1:261:A:GLU:CD	1:261:A:GLU:HG2	1:261:A:GLU:HG3	2	99.3

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,424)	1:259:A:ASN:CA	1:259:A:ASN:CG	1:259:A:ASN:HB2	1:259:A:ASN:HB3	5	99.3
(1,424)	1:259:A:ASN:CA	1:259:A:ASN:CG	1:259:A:ASN:HB2	1:259:A:ASN:HB3	20	99.3
(1,417)	1:256:A:HIS:CA	1:256:A:HIS:CG	1:256:A:HIS:HB2	1:256:A:HIS:HB3	20	99.3
(1,411)	1:253:A:ILE:CB	1:253:A:ILE:CD1	1:253:A:ILE:HG12	1:253:A:ILE:HG13	10	99.3
(1,405)	1:251:A:LYS:CB	1:251:A:LYS:CD	1:251:A:LYS:HG2	1:251:A:LYS:HG3	3	99.3
(1,384)	1:243:A:LEU:CA	1:243:A:LEU:CG	1:243:A:LEU:HB2	1:243:A:LEU:HB3	7	99.3
(1,370)	1:237:A:ASP:CA	1:237:A:ASP:CG	1:237:A:ASP:HB2	1:237:A:ASP:HB3	5	99.3
(1,370)	1:237:A:ASP:CA	1:237:A:ASP:CG	1:237:A:ASP:HB2	1:237:A:ASP:HB3	18	99.3
(1,428)	1:261:A:GLU:CB	1:261:A:GLU:CD	1:261:A:GLU:HG2	1:261:A:GLU:HG3	20	99.29
(1,402)	1:250:A:ILE:CB	1:250:A:ILE:CD1	1:250:A:ILE:HG12	1:250:A:ILE:HG13	16	99.29
(1,391)	1:246:A:GLU:CB	1:246:A:GLU:CD	1:246:A:GLU:HG2	1:246:A:GLU:HG3	12	99.29
(1,391)	1:246:A:GLU:CB	1:246:A:GLU:CD	1:246:A:GLU:HG2	1:246:A:GLU:HG3	13	99.29
(1,384)	1:243:A:LEU:CA	1:243:A:LEU:CG	1:243:A:LEU:HB2	1:243:A:LEU:HB3	1	99.29
(1,370)	1:237:A:ASP:CA	1:237:A:ASP:CG	1:237:A:ASP:HB2	1:237:A:ASP:HB3	14	99.29
(1,365)	1:234:A:PHE:CA	1:234:A:PHE:CG	1:234:A:PHE:HB2	1:234:A:PHE:HB3	8	99.29
(1,352)	1:227:A:ARG:CB	1:227:A:ARG:CD	1:227:A:ARG:HG2	1:227:A:ARG:HG3	6	99.29
(1,349)	1:226:A:PHE:CA	1:226:A:PHE:CG	1:226:A:PHE:HB2	1:226:A:PHE:HB3	20	99.29
(1,493)	2:8:B:U:C4'	2:8:B:U:O5'	2:8:B:U:H5'	2:8:B:U:H5''	8	99.28
(1,468)	2:3:B:G:C4'	2:3:B:G:O5'	2:3:B:G:H5'	2:3:B:G:H5''	9	99.28
(1,451)	1:269:A:GLN:CA	1:269:A:GLN:CG	1:269:A:GLN:HB2	1:269:A:GLN:HB3	7	99.28
(1,428)	1:261:A:GLU:CB	1:261:A:GLU:CD	1:261:A:GLU:HG2	1:261:A:GLU:HG3	7	99.28
(1,427)	1:261:A:GLU:CA	1:261:A:GLU:CG	1:261:A:GLU:HB2	1:261:A:GLU:HB3	5	99.28
(1,405)	1:251:A:LYS:CB	1:251:A:LYS:CD	1:251:A:LYS:HG2	1:251:A:LYS:HG3	1	99.28
(1,405)	1:251:A:LYS:CB	1:251:A:LYS:CD	1:251:A:LYS:HG2	1:251:A:LYS:HG3	4	99.28
(1,405)	1:251:A:LYS:CB	1:251:A:LYS:CD	1:251:A:LYS:HG2	1:251:A:LYS:HG3	8	99.28
(1,402)	1:250:A:ILE:CB	1:250:A:ILE:CD1	1:250:A:ILE:HG12	1:250:A:ILE:HG13	7	99.28
(1,393)	1:247:A:ASP:CA	1:247:A:ASP:CG	1:247:A:ASP:HB2	1:247:A:ASP:HB3	5	99.28
(1,351)	1:227:A:ARG:CA	1:227:A:ARG:CG	1:227:A:ARG:HB2	1:227:A:ARG:HB3	14	99.28
(1,452)	1:269:A:GLN:CB	1:269:A:GLN:CD	1:269:A:GLN:HG2	1:269:A:GLN:HG3	19	99.27
(1,451)	1:269:A:GLN:CA	1:269:A:GLN:CG	1:269:A:GLN:HB2	1:269:A:GLN:HB3	18	99.27
(1,449)	1:268:A:ARG:CG	1:268:A:ARG:NE	1:268:A:ARG:HD2	1:268:A:ARG:HD3	4	99.27
(1,447)	1:268:A:ARG:CA	1:268:A:ARG:CG	1:268:A:ARG:HB2	1:268:A:ARG:HB3	11	99.27
(1,441)	1:265:A:ASN:CA	1:265:A:ASN:CG	1:265:A:ASN:HB2	1:265:A:ASN:HB3	13	99.27
(1,424)	1:259:A:ASN:CA	1:259:A:ASN:CG	1:259:A:ASN:HB2	1:259:A:ASN:HB3	12	99.27
(1,417)	1:256:A:HIS:CA	1:256:A:HIS:CG	1:256:A:HIS:HB2	1:256:A:HIS:HB3	3	99.27
(1,399)	1:249:A:ILE:CB	1:249:A:ILE:CD1	1:249:A:ILE:HG12	1:249:A:ILE:HG13	12	99.27
(1,395)	1:248:A:LEU:CA	1:248:A:LEU:CG	1:248:A:LEU:HB2	1:248:A:LEU:HB3	16	99.27
(1,368)	1:236:A:ASP:CA	1:236:A:ASP:CG	1:236:A:ASP:HB2	1:236:A:ASP:HB3	9	99.27
(1,477)	2:5:B:G:C3'	2:5:B:G:C5'	2:5:B:G:O4'	2:5:B:G:H4'	19	99.26
(1,424)	1:259:A:ASN:CA	1:259:A:ASN:CG	1:259:A:ASN:HB2	1:259:A:ASN:HB3	19	99.26
(1,395)	1:248:A:LEU:CA	1:248:A:LEU:CG	1:248:A:LEU:HB2	1:248:A:LEU:HB3	20	99.26
(1,370)	1:237:A:ASP:CA	1:237:A:ASP:CG	1:237:A:ASP:HB2	1:237:A:ASP:HB3	8	99.26
(1,356)	1:229:A:PHE:CA	1:229:A:PHE:CG	1:229:A:PHE:HB2	1:229:A:PHE:HB3	5	99.26
(1,452)	1:269:A:GLN:CB	1:269:A:GLN:CD	1:269:A:GLN:HG2	1:269:A:GLN:HG3	5	99.25
(1,448)	1:268:A:ARG:CB	1:268:A:ARG:CD	1:268:A:ARG:HG2	1:268:A:ARG:HG3	9	99.25
(1,448)	1:268:A:ARG:CB	1:268:A:ARG:CD	1:268:A:ARG:HG2	1:268:A:ARG:HG3	10	99.25
(1,424)	1:259:A:ASN:CA	1:259:A:ASN:CG	1:259:A:ASN:HB2	1:259:A:ASN:HB3	1	99.25
(1,411)	1:253:A:ILE:CB	1:253:A:ILE:CD1	1:253:A:ILE:HG12	1:253:A:ILE:HG13	3	99.25
(1,411)	1:253:A:ILE:CB	1:253:A:ILE:CD1	1:253:A:ILE:HG12	1:253:A:ILE:HG13	6	99.25
(1,407)	1:251:A:LYS:CG	1:251:A:LYS:CE	1:251:A:LYS:HD2	1:251:A:LYS:HD3	6	99.25
(1,407)	1:251:A:LYS:CG	1:251:A:LYS:CE	1:251:A:LYS:HD2	1:251:A:LYS:HD3	15	99.25

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,407)	1:251:A:LYS:CG	1:251:A:LYS:CE	1:251:A:LYS:HD2	1:251:A:LYS:HD3	16	99.25
(1,368)	1:236:A:ASP:CA	1:236:A:ASP:CG	1:236:A:ASP:HB2	1:236:A:ASP:HB3	2	99.25
(1,488)	2:7:B:A:C4'	2:7:B:A:O5'	2:7:B:A:H5'	2:7:B:A:H5''	8	99.24
(1,435)	1:263:A:LYS:CB	1:263:A:LYS:CD	1:263:A:LYS:HG2	1:263:A:LYS:HG3	11	99.24
(1,407)	1:251:A:LYS:CG	1:251:A:LYS:CE	1:251:A:LYS:HD2	1:251:A:LYS:HD3	7	99.24
(1,407)	1:251:A:LYS:CG	1:251:A:LYS:CE	1:251:A:LYS:HD2	1:251:A:LYS:HD3	10	99.24
(1,404)	1:251:A:LYS:CA	1:251:A:LYS:CG	1:251:A:LYS:HB2	1:251:A:LYS:HB3	4	99.24
(1,404)	1:251:A:LYS:CA	1:251:A:LYS:CG	1:251:A:LYS:HB2	1:251:A:LYS:HB3	9	99.24
(1,393)	1:247:A:ASP:CA	1:247:A:ASP:CG	1:247:A:ASP:HB2	1:247:A:ASP:HB3	9	99.24
(1,379)	1:241:A:GLN:CA	1:241:A:GLN:CG	1:241:A:GLN:HB2	1:241:A:GLN:HB3	16	99.24
(1,351)	1:227:A:ARG:CA	1:227:A:ARG:CG	1:227:A:ARG:HB2	1:227:A:ARG:HB3	20	99.24
(1,452)	1:269:A:GLN:CB	1:269:A:GLN:CD	1:269:A:GLN:HG2	1:269:A:GLN:HG3	7	99.23
(1,437)	1:263:A:LYS:CG	1:263:A:LYS:CE	1:263:A:LYS:HD2	1:263:A:LYS:HD3	15	99.23
(1,417)	1:256:A:HIS:CA	1:256:A:HIS:CG	1:256:A:HIS:HB2	1:256:A:HIS:HB3	17	99.23
(1,407)	1:251:A:LYS:CG	1:251:A:LYS:CE	1:251:A:LYS:HD2	1:251:A:LYS:HD3	19	99.23
(1,405)	1:251:A:LYS:CB	1:251:A:LYS:CD	1:251:A:LYS:HG2	1:251:A:LYS:HG3	2	99.23
(1,404)	1:251:A:LYS:CA	1:251:A:LYS:CG	1:251:A:LYS:HB2	1:251:A:LYS:HB3	12	99.23
(1,404)	1:251:A:LYS:CA	1:251:A:LYS:CG	1:251:A:LYS:HB2	1:251:A:LYS:HB3	16	99.23
(1,402)	1:250:A:ILE:CB	1:250:A:ILE:CD1	1:250:A:ILE:HG12	1:250:A:ILE:HG13	14	99.23
(1,391)	1:246:A:GLU:CB	1:246:A:GLU:CD	1:246:A:GLU:HG2	1:246:A:GLU:HG3	14	99.23
(1,391)	1:246:A:GLU:CB	1:246:A:GLU:CD	1:246:A:GLU:HG2	1:246:A:GLU:HG3	17	99.23
(1,445)	1:267:A:ASN:CA	1:267:A:ASN:CG	1:267:A:ASN:HB2	1:267:A:ASN:HB3	18	99.22
(1,407)	1:251:A:LYS:CG	1:251:A:LYS:CE	1:251:A:LYS:HD2	1:251:A:LYS:HD3	13	99.22
(1,405)	1:251:A:LYS:CB	1:251:A:LYS:CD	1:251:A:LYS:HG2	1:251:A:LYS:HG3	16	99.22
(1,402)	1:250:A:ILE:CB	1:250:A:ILE:CD1	1:250:A:ILE:HG12	1:250:A:ILE:HG13	6	99.22
(1,393)	1:247:A:ASP:CA	1:247:A:ASP:CG	1:247:A:ASP:HB2	1:247:A:ASP:HB3	18	99.22
(1,368)	1:236:A:ASP:CA	1:236:A:ASP:CG	1:236:A:ASP:HB2	1:236:A:ASP:HB3	6	99.22
(1,368)	1:236:A:ASP:CA	1:236:A:ASP:CG	1:236:A:ASP:HB2	1:236:A:ASP:HB3	10	99.22
(1,368)	1:236:A:ASP:CA	1:236:A:ASP:CG	1:236:A:ASP:HB2	1:236:A:ASP:HB3	11	99.22
(1,368)	1:236:A:ASP:CA	1:236:A:ASP:CG	1:236:A:ASP:HB2	1:236:A:ASP:HB3	13	99.22
(1,368)	1:236:A:ASP:CA	1:236:A:ASP:CG	1:236:A:ASP:HB2	1:236:A:ASP:HB3	17	99.22
(1,368)	1:236:A:ASP:CA	1:236:A:ASP:CG	1:236:A:ASP:HB2	1:236:A:ASP:HB3	19	99.22
(1,365)	1:234:A:PHE:CA	1:234:A:PHE:CG	1:234:A:PHE:HB2	1:234:A:PHE:HB3	3	99.22
(1,452)	1:269:A:GLN:CB	1:269:A:GLN:CD	1:269:A:GLN:HG2	1:269:A:GLN:HG3	17	99.21
(1,447)	1:268:A:ARG:CA	1:268:A:ARG:CG	1:268:A:ARG:HB2	1:268:A:ARG:HB3	17	99.21
(1,407)	1:251:A:LYS:CG	1:251:A:LYS:CE	1:251:A:LYS:HD2	1:251:A:LYS:HD3	3	99.21
(1,404)	1:251:A:LYS:CA	1:251:A:LYS:CG	1:251:A:LYS:HB2	1:251:A:LYS:HB3	8	99.21
(1,402)	1:250:A:ILE:CB	1:250:A:ILE:CD1	1:250:A:ILE:HG12	1:250:A:ILE:HG13	13	99.21
(1,399)	1:249:A:ILE:CB	1:249:A:ILE:CD1	1:249:A:ILE:HG12	1:249:A:ILE:HG13	15	99.21
(1,393)	1:247:A:ASP:CA	1:247:A:ASP:CG	1:247:A:ASP:HB2	1:247:A:ASP:HB3	19	99.21
(1,391)	1:246:A:GLU:CB	1:246:A:GLU:CD	1:246:A:GLU:HG2	1:246:A:GLU:HG3	10	99.21
(1,365)	1:234:A:PHE:CA	1:234:A:PHE:CG	1:234:A:PHE:HB2	1:234:A:PHE:HB3	6	99.21
(1,356)	1:229:A:PHE:CA	1:229:A:PHE:CG	1:229:A:PHE:HB2	1:229:A:PHE:HB3	1	99.21
(1,349)	1:226:A:PHE:CA	1:226:A:PHE:CG	1:226:A:PHE:HB2	1:226:A:PHE:HB3	10	99.21
(1,349)	1:226:A:PHE:CA	1:226:A:PHE:CG	1:226:A:PHE:HB2	1:226:A:PHE:HB3	19	99.21
(1,451)	1:269:A:GLN:CA	1:269:A:GLN:CG	1:269:A:GLN:HB2	1:269:A:GLN:HB3	19	99.2
(1,448)	1:268:A:ARG:CB	1:268:A:ARG:CD	1:268:A:ARG:HG2	1:268:A:ARG:HG3	15	99.2
(1,439)	1:264:A:HIS:CA	1:264:A:HIS:CG	1:264:A:HIS:HB2	1:264:A:HIS:HB3	6	99.2
(1,428)	1:261:A:GLU:CB	1:261:A:GLU:CD	1:261:A:GLU:HG2	1:261:A:GLU:HG3	13	99.2
(1,424)	1:259:A:ASN:CA	1:259:A:ASN:CG	1:259:A:ASN:HB2	1:259:A:ASN:HB3	6	99.2
(1,424)	1:259:A:ASN:CA	1:259:A:ASN:CG	1:259:A:ASN:HB2	1:259:A:ASN:HB3	15	99.2

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,407)	1:251:A:LYS:CG	1:251:A:LYS:CE	1:251:A:LYS:HD2	1:251:A:LYS:HD3	8	99.2
(1,404)	1:251:A:LYS:CA	1:251:A:LYS:CG	1:251:A:LYS:HB2	1:251:A:LYS:HB3	7	99.2
(1,384)	1:243:A:LEU:CA	1:243:A:LEU:CG	1:243:A:LEU:HB2	1:243:A:LEU:HB3	20	99.2
(1,349)	1:226:A:PHE:CA	1:226:A:PHE:CG	1:226:A:PHE:HB2	1:226:A:PHE:HB3	9	99.2
(1,468)	2:3:B:G:C4'	2:3:B:G:O5'	2:3:B:G:H5'	2:3:B:G:H5''	12	99.19
(1,447)	1:268:A:ARG:CA	1:268:A:ARG:CG	1:268:A:ARG:HB2	1:268:A:ARG:HB3	5	99.19
(1,427)	1:261:A:GLU:CA	1:261:A:GLU:CG	1:261:A:GLU:HB2	1:261:A:GLU:HB3	20	99.19
(1,417)	1:256:A:HIS:CA	1:256:A:HIS:CG	1:256:A:HIS:HB2	1:256:A:HIS:HB3	10	99.19
(1,404)	1:251:A:LYS:CA	1:251:A:LYS:CG	1:251:A:LYS:HB2	1:251:A:LYS:HB3	17	99.19
(1,402)	1:250:A:ILE:CB	1:250:A:ILE:CD1	1:250:A:ILE:HG12	1:250:A:ILE:HG13	12	99.19
(1,370)	1:237:A:ASP:CA	1:237:A:ASP:CG	1:237:A:ASP:HB2	1:237:A:ASP:HB3	15	99.19
(1,368)	1:236:A:ASP:CA	1:236:A:ASP:CG	1:236:A:ASP:HB2	1:236:A:ASP:HB3	1	99.19
(1,351)	1:227:A:ARG:CA	1:227:A:ARG:CG	1:227:A:ARG:HB2	1:227:A:ARG:HB3	19	99.19
(1,488)	2:7:B:A:C4'	2:7:B:A:O5'	2:7:B:A:H5'	2:7:B:A:H5''	12	99.18
(1,435)	1:263:A:LYS:CB	1:263:A:LYS:CD	1:263:A:LYS:HG2	1:263:A:LYS:HG3	1	99.18
(1,404)	1:251:A:LYS:CA	1:251:A:LYS:CG	1:251:A:LYS:HB2	1:251:A:LYS:HB3	2	99.18
(1,404)	1:251:A:LYS:CA	1:251:A:LYS:CG	1:251:A:LYS:HB2	1:251:A:LYS:HB3	5	99.18
(1,395)	1:248:A:LEU:CA	1:248:A:LEU:CG	1:248:A:LEU:HB2	1:248:A:LEU:HB3	1	99.18
(1,393)	1:247:A:ASP:CA	1:247:A:ASP:CG	1:247:A:ASP:HB2	1:247:A:ASP:HB3	12	99.18
(1,353)	1:227:A:ARG:CG	1:227:A:ARG:NE	1:227:A:ARG:HD2	1:227:A:ARG:HD3	12	99.18
(1,353)	1:227:A:ARG:CG	1:227:A:ARG:NE	1:227:A:ARG:HD2	1:227:A:ARG:HD3	18	99.18
(1,351)	1:227:A:ARG:CA	1:227:A:ARG:CG	1:227:A:ARG:HB2	1:227:A:ARG:HB3	4	99.18
(1,474)	2:5:B:G:C2'	2:5:B:G:O4'	2:5:B:G:N9	2:5:B:G:H1'	8	99.17
(1,424)	1:259:A:ASN:CA	1:259:A:ASN:CG	1:259:A:ASN:HB2	1:259:A:ASN:HB3	11	99.17
(1,411)	1:253:A:ILE:CB	1:253:A:ILE:CD1	1:253:A:ILE:HG12	1:253:A:ILE:HG13	11	99.17
(1,404)	1:251:A:LYS:CA	1:251:A:LYS:CG	1:251:A:LYS:HB2	1:251:A:LYS:HB3	15	99.17
(1,393)	1:247:A:ASP:CA	1:247:A:ASP:CG	1:247:A:ASP:HB2	1:247:A:ASP:HB3	2	99.17
(1,391)	1:246:A:GLU:CB	1:246:A:GLU:CD	1:246:A:GLU:HG2	1:246:A:GLU:HG3	3	99.17
(1,370)	1:237:A:ASP:CA	1:237:A:ASP:CG	1:237:A:ASP:HB2	1:237:A:ASP:HB3	19	99.17
(1,353)	1:227:A:ARG:CG	1:227:A:ARG:NE	1:227:A:ARG:HD2	1:227:A:ARG:HD3	2	99.17
(1,349)	1:226:A:PHE:CA	1:226:A:PHE:CG	1:226:A:PHE:HB2	1:226:A:PHE:HB3	15	99.17
(1,493)	2:8:B:U:C4'	2:8:B:U:O5'	2:8:B:U:H5'	2:8:B:U:H5''	2	99.16
(1,452)	1:269:A:GLN:CB	1:269:A:GLN:CD	1:269:A:GLN:HG2	1:269:A:GLN:HG3	4	99.16
(1,451)	1:269:A:GLN:CA	1:269:A:GLN:CG	1:269:A:GLN:HB2	1:269:A:GLN:HB3	17	99.16
(1,448)	1:268:A:ARG:CB	1:268:A:ARG:CD	1:268:A:ARG:HG2	1:268:A:ARG:HG3	18	99.16
(1,434)	1:263:A:LYS:CA	1:263:A:LYS:CG	1:263:A:LYS:HB2	1:263:A:LYS:HB3	8	99.16
(1,427)	1:261:A:GLU:CA	1:261:A:GLU:CG	1:261:A:GLU:HB2	1:261:A:GLU:HB3	17	99.16
(1,407)	1:251:A:LYS:CG	1:251:A:LYS:CE	1:251:A:LYS:HD2	1:251:A:LYS:HD3	4	99.16
(1,407)	1:251:A:LYS:CG	1:251:A:LYS:CE	1:251:A:LYS:HD2	1:251:A:LYS:HD3	12	99.16
(1,407)	1:251:A:LYS:CG	1:251:A:LYS:CE	1:251:A:LYS:HD2	1:251:A:LYS:HD3	14	99.16
(1,404)	1:251:A:LYS:CA	1:251:A:LYS:CG	1:251:A:LYS:HB2	1:251:A:LYS:HB3	14	99.16
(1,399)	1:249:A:ILE:CB	1:249:A:ILE:CD1	1:249:A:ILE:HG12	1:249:A:ILE:HG13	3	99.16
(1,370)	1:237:A:ASP:CA	1:237:A:ASP:CG	1:237:A:ASP:HB2	1:237:A:ASP:HB3	7	99.16
(1,351)	1:227:A:ARG:CA	1:227:A:ARG:CG	1:227:A:ARG:HB2	1:227:A:ARG:HB3	10	99.16
(1,473)	2:4:B:U:C4'	2:4:B:U:O5'	2:4:B:U:H5'	2:4:B:U:H5''	13	99.15
(1,449)	1:268:A:ARG:CG	1:268:A:ARG:NE	1:268:A:ARG:HD2	1:268:A:ARG:HD3	14	99.15
(1,439)	1:264:A:HIS:CA	1:264:A:HIS:CG	1:264:A:HIS:HB2	1:264:A:HIS:HB3	5	99.15
(1,435)	1:263:A:LYS:CB	1:263:A:LYS:CD	1:263:A:LYS:HG2	1:263:A:LYS:HG3	9	99.15
(1,424)	1:259:A:ASN:CA	1:259:A:ASN:CG	1:259:A:ASN:HB2	1:259:A:ASN:HB3	10	99.15
(1,404)	1:251:A:LYS:CA	1:251:A:LYS:CG	1:251:A:LYS:HB2	1:251:A:LYS:HB3	6	99.15
(1,404)	1:251:A:LYS:CA	1:251:A:LYS:CG	1:251:A:LYS:HB2	1:251:A:LYS:HB3	11	99.15

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,368)	1:236:A:ASP:CA	1:236:A:ASP:CG	1:236:A:ASP:HB2	1:236:A:ASP:HB3	4	99.15
(1,349)	1:226:A:PHE:CA	1:226:A:PHE:CG	1:226:A:PHE:HB2	1:226:A:PHE:HB3	1	99.15
(1,349)	1:226:A:PHE:CA	1:226:A:PHE:CG	1:226:A:PHE:HB2	1:226:A:PHE:HB3	2	99.15
(1,447)	1:268:A:ARG:CA	1:268:A:ARG:CG	1:268:A:ARG:HB2	1:268:A:ARG:HB3	19	99.14
(1,428)	1:261:A:GLU:CB	1:261:A:GLU:CD	1:261:A:GLU:HG2	1:261:A:GLU:HG3	5	99.14
(1,428)	1:261:A:GLU:CB	1:261:A:GLU:CD	1:261:A:GLU:HG2	1:261:A:GLU:HG3	11	99.14
(1,424)	1:259:A:ASN:CA	1:259:A:ASN:CG	1:259:A:ASN:HB2	1:259:A:ASN:HB3	8	99.14
(1,390)	1:246:A:GLU:CA	1:246:A:GLU:CG	1:246:A:GLU:HB2	1:246:A:GLU:HB3	10	99.14
(1,368)	1:236:A:ASP:CA	1:236:A:ASP:CG	1:236:A:ASP:HB2	1:236:A:ASP:HB3	8	99.14
(1,365)	1:234:A:PHE:CA	1:234:A:PHE:CG	1:234:A:PHE:HB2	1:234:A:PHE:HB3	11	99.14
(1,353)	1:227:A:ARG:CG	1:227:A:ARG:NE	1:227:A:ARG:HD2	1:227:A:ARG:HD3	15	99.14
(1,352)	1:227:A:ARG:CB	1:227:A:ARG:CD	1:227:A:ARG:HG2	1:227:A:ARG:HG3	16	99.14
(1,351)	1:227:A:ARG:CA	1:227:A:ARG:CG	1:227:A:ARG:HB2	1:227:A:ARG:HB3	7	99.14
(1,427)	1:261:A:GLU:CA	1:261:A:GLU:CG	1:261:A:GLU:HB2	1:261:A:GLU:HB3	2	99.13
(1,427)	1:261:A:GLU:CA	1:261:A:GLU:CG	1:261:A:GLU:HB2	1:261:A:GLU:HB3	10	99.13
(1,407)	1:251:A:LYS:CG	1:251:A:LYS:CE	1:251:A:LYS:HD2	1:251:A:LYS:HD3	11	99.13
(1,379)	1:241:A:GLN:CA	1:241:A:GLN:CG	1:241:A:GLN:HB2	1:241:A:GLN:HB3	20	99.13
(1,370)	1:237:A:ASP:CA	1:237:A:ASP:CG	1:237:A:ASP:HB2	1:237:A:ASP:HB3	12	99.13
(1,352)	1:227:A:ARG:CB	1:227:A:ARG:CD	1:227:A:ARG:HG2	1:227:A:ARG:HG3	7	99.13
(1,488)	2:7:B:A:C4'	2:7:B:A:O5'	2:7:B:A:H5'	2:7:B:A:H5''	15	99.12
(1,399)	1:249:A:ILE:CB	1:249:A:ILE:CD1	1:249:A:ILE:HG12	1:249:A:ILE:HG13	7	99.12
(1,368)	1:236:A:ASP:CA	1:236:A:ASP:CG	1:236:A:ASP:HB2	1:236:A:ASP:HB3	14	99.12
(1,368)	1:236:A:ASP:CA	1:236:A:ASP:CG	1:236:A:ASP:HB2	1:236:A:ASP:HB3	15	99.12
(1,356)	1:229:A:PHE:CA	1:229:A:PHE:CG	1:229:A:PHE:HB2	1:229:A:PHE:HB3	18	99.12
(1,405)	1:251:A:LYS:CB	1:251:A:LYS:CD	1:251:A:LYS:HG2	1:251:A:LYS:HG3	12	99.11
(1,402)	1:250:A:ILE:CB	1:250:A:ILE:CD1	1:250:A:ILE:HG12	1:250:A:ILE:HG13	4	99.11
(1,351)	1:227:A:ARG:CA	1:227:A:ARG:CG	1:227:A:ARG:HB2	1:227:A:ARG:HB3	3	99.11
(1,349)	1:226:A:PHE:CA	1:226:A:PHE:CG	1:226:A:PHE:HB2	1:226:A:PHE:HB3	4	99.11
(1,473)	2:4:B:U:C4'	2:4:B:U:O5'	2:4:B:U:H5'	2:4:B:U:H5''	11	99.1
(1,468)	2:3:B:G:C4'	2:3:B:G:O5'	2:3:B:G:H5'	2:3:B:G:H5''	13	99.1
(1,452)	1:269:A:GLN:CB	1:269:A:GLN:CD	1:269:A:GLN:HG2	1:269:A:GLN:HG3	13	99.1
(1,437)	1:263:A:LYS:CG	1:263:A:LYS:CE	1:263:A:LYS:HD2	1:263:A:LYS:HD3	1	99.1
(1,437)	1:263:A:LYS:CG	1:263:A:LYS:CE	1:263:A:LYS:HD2	1:263:A:LYS:HD3	7	99.1
(1,436)	1:263:A:LYS:CD	1:263:A:LYS:NZ	1:263:A:LYS:HE2	1:263:A:LYS:HE3	8	99.1
(1,407)	1:251:A:LYS:CG	1:251:A:LYS:CE	1:251:A:LYS:HD2	1:251:A:LYS:HD3	5	99.1
(1,405)	1:251:A:LYS:CB	1:251:A:LYS:CD	1:251:A:LYS:HG2	1:251:A:LYS:HG3	14	99.1
(1,404)	1:251:A:LYS:CA	1:251:A:LYS:CG	1:251:A:LYS:HB2	1:251:A:LYS:HB3	19	99.1
(1,402)	1:250:A:ILE:CB	1:250:A:ILE:CD1	1:250:A:ILE:HG12	1:250:A:ILE:HG13	11	99.1
(1,395)	1:248:A:LEU:CA	1:248:A:LEU:CG	1:248:A:LEU:HB2	1:248:A:LEU:HB3	7	99.1
(1,390)	1:246:A:GLU:CA	1:246:A:GLU:CG	1:246:A:GLU:HB2	1:246:A:GLU:HB3	9	99.1
(1,451)	1:269:A:GLN:CA	1:269:A:GLN:CG	1:269:A:GLN:HB2	1:269:A:GLN:HB3	6	99.09
(1,448)	1:268:A:ARG:CB	1:268:A:ARG:CD	1:268:A:ARG:HG2	1:268:A:ARG:HG3	12	99.09
(1,417)	1:256:A:HIS:CA	1:256:A:HIS:CG	1:256:A:HIS:HB2	1:256:A:HIS:HB3	15	99.09
(1,399)	1:249:A:ILE:CB	1:249:A:ILE:CD1	1:249:A:ILE:HG12	1:249:A:ILE:HG13	8	99.09
(1,393)	1:247:A:ASP:CA	1:247:A:ASP:CG	1:247:A:ASP:HB2	1:247:A:ASP:HB3	1	99.09
(1,393)	1:247:A:ASP:CA	1:247:A:ASP:CG	1:247:A:ASP:HB2	1:247:A:ASP:HB3	14	99.09
(1,368)	1:236:A:ASP:CA	1:236:A:ASP:CG	1:236:A:ASP:HB2	1:236:A:ASP:HB3	12	99.09
(1,473)	2:4:B:U:C4'	2:4:B:U:O5'	2:4:B:U:H5'	2:4:B:U:H5''	10	99.08
(1,473)	2:4:B:U:C4'	2:4:B:U:O5'	2:4:B:U:H5'	2:4:B:U:H5''	14	99.08
(1,449)	1:268:A:ARG:CG	1:268:A:ARG:NE	1:268:A:ARG:HD2	1:268:A:ARG:HD3	10	99.08
(1,437)	1:263:A:LYS:CG	1:263:A:LYS:CE	1:263:A:LYS:HD2	1:263:A:LYS:HD3	2	99.08

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,436)	1:263:A:LYS:CD	1:263:A:LYS:NZ	1:263:A:LYS:HE2	1:263:A:LYS:HE3	16	99.08
(1,402)	1:250:A:ILE:CB	1:250:A:ILE:CD1	1:250:A:ILE:HG12	1:250:A:ILE:HG13	2	99.08
(1,368)	1:236:A:ASP:CA	1:236:A:ASP:CG	1:236:A:ASP:HB2	1:236:A:ASP:HB3	20	99.08
(1,353)	1:227:A:ARG:CG	1:227:A:ARG:NE	1:227:A:ARG:HD2	1:227:A:ARG:HD3	8	99.08
(1,353)	1:227:A:ARG:CG	1:227:A:ARG:NE	1:227:A:ARG:HD2	1:227:A:ARG:HD3	19	99.08
(1,493)	2:8:B:U:C4'	2:8:B:U:O5'	2:8:B:U:H5'	2:8:B:U:H5''	4	99.07
(1,473)	2:4:B:U:C4'	2:4:B:U:O5'	2:4:B:U:H5'	2:4:B:U:H5''	8	99.07
(1,468)	2:3:B:G:C4'	2:3:B:G:O5'	2:3:B:G:H5'	2:3:B:G:H5''	5	99.07
(1,451)	1:269:A:GLN:CA	1:269:A:GLN:CG	1:269:A:GLN:HB2	1:269:A:GLN:HB3	16	99.07
(1,428)	1:261:A:GLU:CB	1:261:A:GLU:CD	1:261:A:GLU:HG2	1:261:A:GLU:HG3	16	99.07
(1,407)	1:251:A:LYS:CG	1:251:A:LYS:CE	1:251:A:LYS:HD2	1:251:A:LYS:HD3	9	99.07
(1,402)	1:250:A:ILE:CB	1:250:A:ILE:CD1	1:250:A:ILE:HG12	1:250:A:ILE:HG13	3	99.07
(1,402)	1:250:A:ILE:CB	1:250:A:ILE:CD1	1:250:A:ILE:HG12	1:250:A:ILE:HG13	8	99.07
(1,379)	1:241:A:GLN:CA	1:241:A:GLN:CG	1:241:A:GLN:HB2	1:241:A:GLN:HB3	2	99.07
(1,370)	1:237:A:ASP:CA	1:237:A:ASP:CG	1:237:A:ASP:HB2	1:237:A:ASP:HB3	13	99.07
(1,468)	2:3:B:G:C4'	2:3:B:G:O5'	2:3:B:G:H5'	2:3:B:G:H5''	14	99.06
(1,463)	2:2:B:U:C4'	2:2:B:U:O5'	2:2:B:U:H5'	2:2:B:U:H5''	13	99.06
(1,402)	1:250:A:ILE:CB	1:250:A:ILE:CD1	1:250:A:ILE:HG12	1:250:A:ILE:HG13	1	99.06
(1,402)	1:250:A:ILE:CB	1:250:A:ILE:CD1	1:250:A:ILE:HG12	1:250:A:ILE:HG13	20	99.06
(1,390)	1:246:A:GLU:CA	1:246:A:GLU:CG	1:246:A:GLU:HB2	1:246:A:GLU:HB3	3	99.06
(1,390)	1:246:A:GLU:CA	1:246:A:GLU:CG	1:246:A:GLU:HB2	1:246:A:GLU:HB3	7	99.06
(1,353)	1:227:A:ARG:CG	1:227:A:ARG:NE	1:227:A:ARG:HD2	1:227:A:ARG:HD3	9	99.06
(1,351)	1:227:A:ARG:CA	1:227:A:ARG:CG	1:227:A:ARG:HB2	1:227:A:ARG:HB3	11	99.06
(1,349)	1:226:A:PHE:CA	1:226:A:PHE:CG	1:226:A:PHE:HB2	1:226:A:PHE:HB3	17	99.06
(1,488)	2:7:B:A:C4'	2:7:B:A:O5'	2:7:B:A:H5'	2:7:B:A:H5''	10	99.05
(1,428)	1:261:A:GLU:CB	1:261:A:GLU:CD	1:261:A:GLU:HG2	1:261:A:GLU:HG3	1	99.05
(1,428)	1:261:A:GLU:CB	1:261:A:GLU:CD	1:261:A:GLU:HG2	1:261:A:GLU:HG3	6	99.05
(1,427)	1:261:A:GLU:CA	1:261:A:GLU:CG	1:261:A:GLU:HB2	1:261:A:GLU:HB3	13	99.05
(1,424)	1:259:A:ASN:CA	1:259:A:ASN:CG	1:259:A:ASN:HB2	1:259:A:ASN:HB3	14	99.05
(1,393)	1:247:A:ASP:CA	1:247:A:ASP:CG	1:247:A:ASP:HB2	1:247:A:ASP:HB3	16	99.05
(1,352)	1:227:A:ARG:CB	1:227:A:ARG:CD	1:227:A:ARG:HG2	1:227:A:ARG:HG3	2	99.05
(1,351)	1:227:A:ARG:CA	1:227:A:ARG:CG	1:227:A:ARG:HB2	1:227:A:ARG:HB3	13	99.05
(1,473)	2:4:B:U:C4'	2:4:B:U:O5'	2:4:B:U:H5'	2:4:B:U:H5''	4	99.04
(1,437)	1:263:A:LYS:CG	1:263:A:LYS:CE	1:263:A:LYS:HD2	1:263:A:LYS:HD3	3	99.04
(1,434)	1:263:A:LYS:CA	1:263:A:LYS:CG	1:263:A:LYS:HB2	1:263:A:LYS:HB3	18	99.04
(1,428)	1:261:A:GLU:CB	1:261:A:GLU:CD	1:261:A:GLU:HG2	1:261:A:GLU:HG3	17	99.04
(1,390)	1:246:A:GLU:CA	1:246:A:GLU:CG	1:246:A:GLU:HB2	1:246:A:GLU:HB3	18	99.04
(1,370)	1:237:A:ASP:CA	1:237:A:ASP:CG	1:237:A:ASP:HB2	1:237:A:ASP:HB3	11	99.04
(1,368)	1:236:A:ASP:CA	1:236:A:ASP:CG	1:236:A:ASP:HB2	1:236:A:ASP:HB3	18	99.04
(1,351)	1:227:A:ARG:CA	1:227:A:ARG:CG	1:227:A:ARG:HB2	1:227:A:ARG:HB3	17	99.04
(1,478)	2:5:B:G:C4'	2:5:B:G:O5'	2:5:B:G:H5'	2:5:B:G:H5''	7	99.03
(1,473)	2:4:B:U:C4'	2:4:B:U:O5'	2:4:B:U:H5'	2:4:B:U:H5''	5	99.03
(1,447)	1:268:A:ARG:CA	1:268:A:ARG:CG	1:268:A:ARG:HB2	1:268:A:ARG:HB3	2	99.03
(1,424)	1:259:A:ASN:CA	1:259:A:ASN:CG	1:259:A:ASN:HB2	1:259:A:ASN:HB3	3	99.03
(1,407)	1:251:A:LYS:CG	1:251:A:LYS:CE	1:251:A:LYS:HD2	1:251:A:LYS:HD3	20	99.03
(1,404)	1:251:A:LYS:CA	1:251:A:LYS:CG	1:251:A:LYS:HB2	1:251:A:LYS:HB3	1	99.03
(1,390)	1:246:A:GLU:CA	1:246:A:GLU:CG	1:246:A:GLU:HB2	1:246:A:GLU:HB3	6	99.03
(1,353)	1:227:A:ARG:CG	1:227:A:ARG:NE	1:227:A:ARG:HD2	1:227:A:ARG:HD3	5	99.03
(1,493)	2:8:B:U:C4'	2:8:B:U:O5'	2:8:B:U:H5'	2:8:B:U:H5''	13	99.02
(1,477)	2:5:B:G:C3'	2:5:B:G:C5'	2:5:B:G:O4'	2:5:B:G:H4'	9	99.02
(1,468)	2:3:B:G:C4'	2:3:B:G:O5'	2:3:B:G:H5'	2:3:B:G:H5''	10	99.02

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,452)	1:269:A:GLN:CB	1:269:A:GLN:CD	1:269:A:GLN:HG2	1:269:A:GLN:HG3	1	99.02
(1,448)	1:268:A:ARG:CB	1:268:A:ARG:CD	1:268:A:ARG:HG2	1:268:A:ARG:HG3	19	99.02
(1,447)	1:268:A:ARG:CA	1:268:A:ARG:CG	1:268:A:ARG:HB2	1:268:A:ARG:HB3	1	99.02
(1,436)	1:263:A:LYS:CD	1:263:A:LYS:NZ	1:263:A:LYS:HE2	1:263:A:LYS:HE3	15	99.02
(1,402)	1:250:A:ILE:CB	1:250:A:ILE:CD1	1:250:A:ILE:HG12	1:250:A:ILE:HG13	10	99.02
(1,402)	1:250:A:ILE:CB	1:250:A:ILE:CD1	1:250:A:ILE:HG12	1:250:A:ILE:HG13	17	99.02
(1,399)	1:249:A:ILE:CB	1:249:A:ILE:CD1	1:249:A:ILE:HG12	1:249:A:ILE:HG13	17	99.02
(1,393)	1:247:A:ASP:CA	1:247:A:ASP:CG	1:247:A:ASP:HB2	1:247:A:ASP:HB3	4	99.02
(1,368)	1:236:A:ASP:CA	1:236:A:ASP:CG	1:236:A:ASP:HB2	1:236:A:ASP:HB3	3	99.02
(1,353)	1:227:A:ARG:CG	1:227:A:ARG:NE	1:227:A:ARG:HD2	1:227:A:ARG:HD3	14	99.02
(1,349)	1:226:A:PHE:CA	1:226:A:PHE:CG	1:226:A:PHE:HB2	1:226:A:PHE:HB3	6	99.02
(1,452)	1:269:A:GLN:CB	1:269:A:GLN:CD	1:269:A:GLN:HG2	1:269:A:GLN:HG3	12	99.01
(1,445)	1:267:A:ASN:CA	1:267:A:ASN:CG	1:267:A:ASN:HB2	1:267:A:ASN:HB3	8	99.01
(1,445)	1:267:A:ASN:CA	1:267:A:ASN:CG	1:267:A:ASN:HB2	1:267:A:ASN:HB3	19	99.01
(1,407)	1:251:A:LYS:CG	1:251:A:LYS:CE	1:251:A:LYS:HD2	1:251:A:LYS:HD3	1	99.01
(1,399)	1:249:A:ILE:CB	1:249:A:ILE:CD1	1:249:A:ILE:HG12	1:249:A:ILE:HG13	6	99.01
(1,373)	1:238:A:GLN:CB	1:238:A:GLN:CD	1:238:A:GLN:HG2	1:238:A:GLN:HG3	20	99.01
(1,353)	1:227:A:ARG:CG	1:227:A:ARG:NE	1:227:A:ARG:HD2	1:227:A:ARG:HD3	6	99.01
(1,508)	2:11:B:A:C4'	2:11:B:A:O5'	2:11:B:A:H5'	2:11:B:A:H5''	3	99.0
(1,451)	1:269:A:GLN:CA	1:269:A:GLN:CG	1:269:A:GLN:HB2	1:269:A:GLN:HB3	12	99.0
(1,449)	1:268:A:ARG:CG	1:268:A:ARG:NE	1:268:A:ARG:HD2	1:268:A:ARG:HD3	3	99.0
(1,407)	1:251:A:LYS:CG	1:251:A:LYS:CE	1:251:A:LYS:HD2	1:251:A:LYS:HD3	17	99.0
(1,399)	1:249:A:ILE:CB	1:249:A:ILE:CD1	1:249:A:ILE:HG12	1:249:A:ILE:HG13	19	99.0
(1,373)	1:238:A:GLN:CB	1:238:A:GLN:CD	1:238:A:GLN:HG2	1:238:A:GLN:HG3	18	99.0
(1,349)	1:226:A:PHE:CA	1:226:A:PHE:CG	1:226:A:PHE:HB2	1:226:A:PHE:HB3	8	99.0
(1,483)	2:6:B:A:C4'	2:6:B:A:O5'	2:6:B:A:H5'	2:6:B:A:H5''	9	98.99
(1,473)	2:4:B:U:C4'	2:4:B:U:O5'	2:4:B:U:H5'	2:4:B:U:H5''	9	98.99
(1,468)	2:3:B:G:C4'	2:3:B:G:O5'	2:3:B:G:H5'	2:3:B:G:H5''	16	98.99
(1,437)	1:263:A:LYS:CG	1:263:A:LYS:CE	1:263:A:LYS:HD2	1:263:A:LYS:HD3	6	98.99
(1,436)	1:263:A:LYS:CD	1:263:A:LYS:NZ	1:263:A:LYS:HE2	1:263:A:LYS:HE3	2	98.99
(1,411)	1:253:A:ILE:CB	1:253:A:ILE:CD1	1:253:A:ILE:HG12	1:253:A:ILE:HG13	2	98.99
(1,390)	1:246:A:GLU:CA	1:246:A:GLU:CG	1:246:A:GLU:HB2	1:246:A:GLU:HB3	2	98.99
(1,373)	1:238:A:GLN:CB	1:238:A:GLN:CD	1:238:A:GLN:HG2	1:238:A:GLN:HG3	6	98.99
(1,399)	1:249:A:ILE:CB	1:249:A:ILE:CD1	1:249:A:ILE:HG12	1:249:A:ILE:HG13	4	98.98
(1,368)	1:236:A:ASP:CA	1:236:A:ASP:CG	1:236:A:ASP:HB2	1:236:A:ASP:HB3	16	98.98
(1,352)	1:227:A:ARG:CB	1:227:A:ARG:CD	1:227:A:ARG:HG2	1:227:A:ARG:HG3	3	98.98
(1,351)	1:227:A:ARG:CA	1:227:A:ARG:CG	1:227:A:ARG:HB2	1:227:A:ARG:HB3	15	98.98
(1,473)	2:4:B:U:C4'	2:4:B:U:O5'	2:4:B:U:H5'	2:4:B:U:H5''	20	98.97
(1,445)	1:267:A:ASN:CA	1:267:A:ASN:CG	1:267:A:ASN:HB2	1:267:A:ASN:HB3	11	98.97
(1,390)	1:246:A:GLU:CA	1:246:A:GLU:CG	1:246:A:GLU:HB2	1:246:A:GLU:HB3	17	98.97
(1,353)	1:227:A:ARG:CG	1:227:A:ARG:NE	1:227:A:ARG:HD2	1:227:A:ARG:HD3	13	98.97
(1,353)	1:227:A:ARG:CG	1:227:A:ARG:NE	1:227:A:ARG:HD2	1:227:A:ARG:HD3	20	98.97
(1,493)	2:8:B:U:C4'	2:8:B:U:O5'	2:8:B:U:H5'	2:8:B:U:H5''	10	98.96
(1,449)	1:268:A:ARG:CG	1:268:A:ARG:NE	1:268:A:ARG:HD2	1:268:A:ARG:HD3	12	98.96
(1,428)	1:261:A:GLU:CB	1:261:A:GLU:CD	1:261:A:GLU:HG2	1:261:A:GLU:HG3	15	98.96
(1,399)	1:249:A:ILE:CB	1:249:A:ILE:CD1	1:249:A:ILE:HG12	1:249:A:ILE:HG13	20	98.96
(1,353)	1:227:A:ARG:CG	1:227:A:ARG:NE	1:227:A:ARG:HD2	1:227:A:ARG:HD3	11	98.96
(1,473)	2:4:B:U:C4'	2:4:B:U:O5'	2:4:B:U:H5'	2:4:B:U:H5''	19	98.95
(1,445)	1:267:A:ASN:CA	1:267:A:ASN:CG	1:267:A:ASN:HB2	1:267:A:ASN:HB3	9	98.95
(1,436)	1:263:A:LYS:CD	1:263:A:LYS:NZ	1:263:A:LYS:HE2	1:263:A:LYS:HE3	14	98.95
(1,404)	1:251:A:LYS:CA	1:251:A:LYS:CG	1:251:A:LYS:HB2	1:251:A:LYS:HB3	13	98.95

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,399)	1:249:A:ILE:CB	1:249:A:ILE:CD1	1:249:A:ILE:HG12	1:249:A:ILE:HG13	2	98.95
(1,390)	1:246:A:GLU:CA	1:246:A:GLU:CG	1:246:A:GLU:HB2	1:246:A:GLU:HB3	5	98.95
(1,352)	1:227:A:ARG:CB	1:227:A:ARG:CD	1:227:A:ARG:HG2	1:227:A:ARG:HG3	1	98.95
(1,349)	1:226:A:PHE:CA	1:226:A:PHE:CG	1:226:A:PHE:HB2	1:226:A:PHE:HB3	11	98.95
(1,503)	2:10:B:A:C4'	2:10:B:A:O5'	2:10:B:A:H5'	2:10:B:A:H5''	11	98.94
(1,445)	1:267:A:ASN:CA	1:267:A:ASN:CG	1:267:A:ASN:HB2	1:267:A:ASN:HB3	16	98.94
(1,441)	1:265:A:ASN:CA	1:265:A:ASN:CG	1:265:A:ASN:HB2	1:265:A:ASN:HB3	7	98.94
(1,437)	1:263:A:LYS:CG	1:263:A:LYS:CE	1:263:A:LYS:HD2	1:263:A:LYS:HD3	14	98.94
(1,436)	1:263:A:LYS:CD	1:263:A:LYS:NZ	1:263:A:LYS:HE2	1:263:A:LYS:HE3	5	98.94
(1,390)	1:246:A:GLU:CA	1:246:A:GLU:CG	1:246:A:GLU:HB2	1:246:A:GLU:HB3	12	98.94
(1,473)	2:4:B:U:C4'	2:4:B:U:O5'	2:4:B:U:H5'	2:4:B:U:H5''	1	98.93
(1,468)	2:3:B:G:C4'	2:3:B:G:O5'	2:3:B:G:H5'	2:3:B:G:H5''	8	98.93
(1,445)	1:267:A:ASN:CA	1:267:A:ASN:CG	1:267:A:ASN:HB2	1:267:A:ASN:HB3	14	98.93
(1,441)	1:265:A:ASN:CA	1:265:A:ASN:CG	1:265:A:ASN:HB2	1:265:A:ASN:HB3	8	98.93
(1,436)	1:263:A:LYS:CD	1:263:A:LYS:NZ	1:263:A:LYS:HE2	1:263:A:LYS:HE3	18	98.93
(1,435)	1:263:A:LYS:CB	1:263:A:LYS:CD	1:263:A:LYS:HG2	1:263:A:LYS:HG3	16	98.93
(1,393)	1:247:A:ASP:CA	1:247:A:ASP:CG	1:247:A:ASP:HB2	1:247:A:ASP:HB3	13	98.93
(1,390)	1:246:A:GLU:CA	1:246:A:GLU:CG	1:246:A:GLU:HB2	1:246:A:GLU:HB3	8	98.93
(1,390)	1:246:A:GLU:CA	1:246:A:GLU:CG	1:246:A:GLU:HB2	1:246:A:GLU:HB3	11	98.93
(1,353)	1:227:A:ARG:CG	1:227:A:ARG:NE	1:227:A:ARG:HD2	1:227:A:ARG:HD3	10	98.93
(1,349)	1:226:A:PHE:CA	1:226:A:PHE:CG	1:226:A:PHE:HB2	1:226:A:PHE:HB3	5	98.93
(1,468)	2:3:B:G:C4'	2:3:B:G:O5'	2:3:B:G:H5'	2:3:B:G:H5''	19	98.92
(1,449)	1:268:A:ARG:CG	1:268:A:ARG:NE	1:268:A:ARG:HD2	1:268:A:ARG:HD3	15	98.92
(1,449)	1:268:A:ARG:CG	1:268:A:ARG:NE	1:268:A:ARG:HD2	1:268:A:ARG:HD3	16	98.92
(1,468)	2:3:B:G:C4'	2:3:B:G:O5'	2:3:B:G:H5'	2:3:B:G:H5''	17	98.91
(1,468)	2:3:B:G:C4'	2:3:B:G:O5'	2:3:B:G:H5'	2:3:B:G:H5''	18	98.91
(1,449)	1:268:A:ARG:CG	1:268:A:ARG:NE	1:268:A:ARG:HD2	1:268:A:ARG:HD3	9	98.91
(1,436)	1:263:A:LYS:CD	1:263:A:LYS:NZ	1:263:A:LYS:HE2	1:263:A:LYS:HE3	11	98.91
(1,435)	1:263:A:LYS:CB	1:263:A:LYS:CD	1:263:A:LYS:HG2	1:263:A:LYS:HG3	13	98.91
(1,390)	1:246:A:GLU:CA	1:246:A:GLU:CG	1:246:A:GLU:HB2	1:246:A:GLU:HB3	13	98.91
(1,473)	2:4:B:U:C4'	2:4:B:U:O5'	2:4:B:U:H5'	2:4:B:U:H5''	2	98.9
(1,473)	2:4:B:U:C4'	2:4:B:U:O5'	2:4:B:U:H5'	2:4:B:U:H5''	15	98.9
(1,402)	1:250:A:ILE:CB	1:250:A:ILE:CD1	1:250:A:ILE:HG12	1:250:A:ILE:HG13	18	98.9
(1,373)	1:238:A:GLN:CB	1:238:A:GLN:CD	1:238:A:GLN:HG2	1:238:A:GLN:HG3	13	98.9
(1,498)	2:9:B:G:C4'	2:9:B:G:O5'	2:9:B:G:H5'	2:9:B:G:H5''	18	98.89
(1,483)	2:6:B:A:C4'	2:6:B:A:O5'	2:6:B:A:H5'	2:6:B:A:H5''	17	98.89
(1,473)	2:4:B:U:C4'	2:4:B:U:O5'	2:4:B:U:H5'	2:4:B:U:H5''	6	98.89
(1,441)	1:265:A:ASN:CA	1:265:A:ASN:CG	1:265:A:ASN:HB2	1:265:A:ASN:HB3	19	98.89
(1,373)	1:238:A:GLN:CB	1:238:A:GLN:CD	1:238:A:GLN:HG2	1:238:A:GLN:HG3	1	98.89
(1,373)	1:238:A:GLN:CB	1:238:A:GLN:CD	1:238:A:GLN:HG2	1:238:A:GLN:HG3	17	98.89
(1,468)	2:3:B:G:C4'	2:3:B:G:O5'	2:3:B:G:H5'	2:3:B:G:H5''	3	98.88
(1,468)	2:3:B:G:C4'	2:3:B:G:O5'	2:3:B:G:H5'	2:3:B:G:H5''	6	98.88
(1,436)	1:263:A:LYS:CD	1:263:A:LYS:NZ	1:263:A:LYS:HE2	1:263:A:LYS:HE3	1	98.88
(1,402)	1:250:A:ILE:CB	1:250:A:ILE:CD1	1:250:A:ILE:HG12	1:250:A:ILE:HG13	19	98.88
(1,376)	1:239:A:ILE:CB	1:239:A:ILE:CD1	1:239:A:ILE:HG12	1:239:A:ILE:HG13	8	98.88
(1,508)	2:11:B:A:C4'	2:11:B:A:O5'	2:11:B:A:H5'	2:11:B:A:H5''	7	98.87
(1,448)	1:268:A:ARG:CB	1:268:A:ARG:CD	1:268:A:ARG:HG2	1:268:A:ARG:HG3	4	98.87
(1,437)	1:263:A:LYS:CG	1:263:A:LYS:CE	1:263:A:LYS:HD2	1:263:A:LYS:HD3	9	98.87
(1,407)	1:251:A:LYS:CG	1:251:A:LYS:CE	1:251:A:LYS:HD2	1:251:A:LYS:HD3	18	98.87
(1,513)	2:12:B:U:C4'	2:12:B:U:O5'	2:12:B:U:H5'	2:12:B:U:H5''	4	98.86
(1,493)	2:8:B:U:C4'	2:8:B:U:O5'	2:8:B:U:H5'	2:8:B:U:H5''	5	98.86

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,441)	1:265:A:ASN:CA	1:265:A:ASN:CG	1:265:A:ASN:HB2	1:265:A:ASN:HB3	6	98.86
(1,407)	1:251:A:LYS:CG	1:251:A:LYS:CE	1:251:A:LYS:HD2	1:251:A:LYS:HD3	2	98.86
(1,498)	2:9:B:G:C4'	2:9:B:G:O5'	2:9:B:G:H5'	2:9:B:G:H5''	12	98.85
(1,473)	2:4:B:U:C4'	2:4:B:U:O5'	2:4:B:U:H5'	2:4:B:U:H5''	17	98.85
(1,441)	1:265:A:ASN:CA	1:265:A:ASN:CG	1:265:A:ASN:HB2	1:265:A:ASN:HB3	4	98.85
(1,373)	1:238:A:GLN:CB	1:238:A:GLN:CD	1:238:A:GLN:HG2	1:238:A:GLN:HG3	8	98.85
(1,351)	1:227:A:ARG:CA	1:227:A:ARG:CG	1:227:A:ARG:HB2	1:227:A:ARG:HB3	5	98.85
(1,402)	1:250:A:ILE:CB	1:250:A:ILE:CD1	1:250:A:ILE:HG12	1:250:A:ILE:HG13	5	98.84
(1,390)	1:246:A:GLU:CA	1:246:A:GLU:CG	1:246:A:GLU:HB2	1:246:A:GLU:HB3	4	98.84
(1,373)	1:238:A:GLN:CB	1:238:A:GLN:CD	1:238:A:GLN:HG2	1:238:A:GLN:HG3	10	98.84
(1,351)	1:227:A:ARG:CA	1:227:A:ARG:CG	1:227:A:ARG:HB2	1:227:A:ARG:HB3	2	98.84
(1,493)	2:8:B:U:C4'	2:8:B:U:O5'	2:8:B:U:H5'	2:8:B:U:H5''	16	98.83
(1,452)	1:269:A:GLN:CB	1:269:A:GLN:CD	1:269:A:GLN:HG2	1:269:A:GLN:HG3	6	98.83
(1,449)	1:268:A:ARG:CG	1:268:A:ARG:NE	1:268:A:ARG:HD2	1:268:A:ARG:HD3	8	98.83
(1,436)	1:263:A:LYS:CD	1:263:A:LYS:NZ	1:263:A:LYS:HE2	1:263:A:LYS:HE3	12	98.83
(1,436)	1:263:A:LYS:CD	1:263:A:LYS:NZ	1:263:A:LYS:HE2	1:263:A:LYS:HE3	20	98.83
(1,373)	1:238:A:GLN:CB	1:238:A:GLN:CD	1:238:A:GLN:HG2	1:238:A:GLN:HG3	7	98.83
(1,373)	1:238:A:GLN:CB	1:238:A:GLN:CD	1:238:A:GLN:HG2	1:238:A:GLN:HG3	12	98.83
(1,437)	1:263:A:LYS:CG	1:263:A:LYS:CE	1:263:A:LYS:HD2	1:263:A:LYS:HD3	18	98.82
(1,406)	1:251:A:LYS:CD	1:251:A:LYS:NZ	1:251:A:LYS:HE2	1:251:A:LYS:HE3	18	98.82
(1,393)	1:247:A:ASP:CA	1:247:A:ASP:CG	1:247:A:ASP:HB2	1:247:A:ASP:HB3	8	98.82
(1,370)	1:237:A:ASP:CA	1:237:A:ASP:CG	1:237:A:ASP:HB2	1:237:A:ASP:HB3	17	98.82
(1,390)	1:246:A:GLU:CA	1:246:A:GLU:CG	1:246:A:GLU:HB2	1:246:A:GLU:HB3	19	98.81
(1,513)	2:12:B:U:C4'	2:12:B:U:O5'	2:12:B:U:H5'	2:12:B:U:H5''	17	98.8
(1,508)	2:11:B:A:C4'	2:11:B:A:O5'	2:11:B:A:H5'	2:11:B:A:H5''	11	98.8
(1,449)	1:268:A:ARG:CG	1:268:A:ARG:NE	1:268:A:ARG:HD2	1:268:A:ARG:HD3	11	98.79
(1,436)	1:263:A:LYS:CD	1:263:A:LYS:NZ	1:263:A:LYS:HE2	1:263:A:LYS:HE3	10	98.79
(1,404)	1:251:A:LYS:CA	1:251:A:LYS:CG	1:251:A:LYS:HB2	1:251:A:LYS:HB3	20	98.79
(1,390)	1:246:A:GLU:CA	1:246:A:GLU:CG	1:246:A:GLU:HB2	1:246:A:GLU:HB3	14	98.79
(1,390)	1:246:A:GLU:CA	1:246:A:GLU:CG	1:246:A:GLU:HB2	1:246:A:GLU:HB3	16	98.79
(1,382)	1:242:A:SER:CA	1:242:A:SER:OG	1:242:A:SER:HB2	1:242:A:SER:HB3	9	98.79
(1,373)	1:238:A:GLN:CB	1:238:A:GLN:CD	1:238:A:GLN:HG2	1:238:A:GLN:HG3	3	98.79
(1,368)	1:236:A:ASP:CA	1:236:A:ASP:CG	1:236:A:ASP:HB2	1:236:A:ASP:HB3	5	98.79
(1,353)	1:227:A:ARG:CG	1:227:A:ARG:NE	1:227:A:ARG:HD2	1:227:A:ARG:HD3	17	98.79
(1,513)	2:12:B:U:C4'	2:12:B:U:O5'	2:12:B:U:H5'	2:12:B:U:H5''	8	98.78
(1,463)	2:2:B:U:C4'	2:2:B:U:O5'	2:2:B:U:H5'	2:2:B:U:H5''	1	98.78
(1,449)	1:268:A:ARG:CG	1:268:A:ARG:NE	1:268:A:ARG:HD2	1:268:A:ARG:HD3	2	98.78
(1,406)	1:251:A:LYS:CD	1:251:A:LYS:NZ	1:251:A:LYS:HE2	1:251:A:LYS:HE3	19	98.78
(1,373)	1:238:A:GLN:CB	1:238:A:GLN:CD	1:238:A:GLN:HG2	1:238:A:GLN:HG3	4	98.78
(1,370)	1:237:A:ASP:CA	1:237:A:ASP:CG	1:237:A:ASP:HB2	1:237:A:ASP:HB3	9	98.78
(1,352)	1:227:A:ARG:CB	1:227:A:ARG:CD	1:227:A:ARG:HG2	1:227:A:ARG:HG3	12	98.78
(1,349)	1:226:A:PHE:CA	1:226:A:PHE:CG	1:226:A:PHE:HB2	1:226:A:PHE:HB3	16	98.78
(1,376)	1:239:A:ILE:CB	1:239:A:ILE:CD1	1:239:A:ILE:HG12	1:239:A:ILE:HG13	13	98.77
(1,351)	1:227:A:ARG:CA	1:227:A:ARG:CG	1:227:A:ARG:HB2	1:227:A:ARG:HB3	12	98.77
(1,498)	2:9:B:G:C4'	2:9:B:G:O5'	2:9:B:G:H5'	2:9:B:G:H5''	4	98.76
(1,393)	1:247:A:ASP:CA	1:247:A:ASP:CG	1:247:A:ASP:HB2	1:247:A:ASP:HB3	6	98.76
(1,373)	1:238:A:GLN:CB	1:238:A:GLN:CD	1:238:A:GLN:HG2	1:238:A:GLN:HG3	2	98.76
(1,373)	1:238:A:GLN:CB	1:238:A:GLN:CD	1:238:A:GLN:HG2	1:238:A:GLN:HG3	15	98.76
(1,493)	2:8:B:U:C4'	2:8:B:U:O5'	2:8:B:U:H5'	2:8:B:U:H5''	17	98.75
(1,493)	2:8:B:U:C4'	2:8:B:U:O5'	2:8:B:U:H5'	2:8:B:U:H5''	20	98.75
(1,477)	2:5:B:G:C3'	2:5:B:G:C5'	2:5:B:G:O4'	2:5:B:G:H4'	5	98.75

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,473)	2:4:B:U:C4'	2:4:B:U:O5'	2:4:B:U:H5'	2:4:B:U:H5''	18	98.75
(1,449)	1:268:A:ARG:CG	1:268:A:ARG:NE	1:268:A:ARG:HD2	1:268:A:ARG:HD3	5	98.75
(1,436)	1:263:A:LYS:CD	1:263:A:LYS:NZ	1:263:A:LYS:HE2	1:263:A:LYS:HE3	19	98.75
(1,376)	1:239:A:ILE:CB	1:239:A:ILE:CD1	1:239:A:ILE:HG12	1:239:A:ILE:HG13	12	98.75
(1,373)	1:238:A:GLN:CB	1:238:A:GLN:CD	1:238:A:GLN:HG2	1:238:A:GLN:HG3	16	98.75
(1,513)	2:12:B:U:C4'	2:12:B:U:O5'	2:12:B:U:H5'	2:12:B:U:H5''	5	98.74
(1,493)	2:8:B:U:C4'	2:8:B:U:O5'	2:8:B:U:H5'	2:8:B:U:H5''	11	98.74
(1,468)	2:3:B:G:C4'	2:3:B:G:O5'	2:3:B:G:H5'	2:3:B:G:H5''	11	98.74
(1,463)	2:2:B:U:C4'	2:2:B:U:O5'	2:2:B:U:H5'	2:2:B:U:H5''	10	98.74
(1,443)	1:266:A:SER:CA	1:266:A:SER:OG	1:266:A:SER:HB2	1:266:A:SER:HB3	6	98.74
(1,376)	1:239:A:ILE:CB	1:239:A:ILE:CD1	1:239:A:ILE:HG12	1:239:A:ILE:HG13	1	98.74
(1,352)	1:227:A:ARG:CB	1:227:A:ARG:CD	1:227:A:ARG:HG2	1:227:A:ARG:HG3	20	98.74
(1,498)	2:9:B:G:C4'	2:9:B:G:O5'	2:9:B:G:H5'	2:9:B:G:H5''	5	98.73
(1,463)	2:2:B:U:C4'	2:2:B:U:O5'	2:2:B:U:H5'	2:2:B:U:H5''	4	98.73
(1,399)	1:249:A:ILE:CB	1:249:A:ILE:CD1	1:249:A:ILE:HG12	1:249:A:ILE:HG13	5	98.73
(1,373)	1:238:A:GLN:CB	1:238:A:GLN:CD	1:238:A:GLN:HG2	1:238:A:GLN:HG3	5	98.73
(1,449)	1:268:A:ARG:CG	1:268:A:ARG:NE	1:268:A:ARG:HD2	1:268:A:ARG:HD3	20	98.72
(1,404)	1:251:A:LYS:CA	1:251:A:LYS:CG	1:251:A:LYS:HB2	1:251:A:LYS:HB3	18	98.72
(1,399)	1:249:A:ILE:CB	1:249:A:ILE:CD1	1:249:A:ILE:HG12	1:249:A:ILE:HG13	10	98.72
(1,390)	1:246:A:GLU:CA	1:246:A:GLU:CG	1:246:A:GLU:HB2	1:246:A:GLU:HB3	1	98.72
(1,390)	1:246:A:GLU:CA	1:246:A:GLU:CG	1:246:A:GLU:HB2	1:246:A:GLU:HB3	15	98.72
(1,376)	1:239:A:ILE:CB	1:239:A:ILE:CD1	1:239:A:ILE:HG12	1:239:A:ILE:HG13	16	98.72
(1,449)	1:268:A:ARG:CG	1:268:A:ARG:NE	1:268:A:ARG:HD2	1:268:A:ARG:HD3	7	98.71
(1,376)	1:239:A:ILE:CB	1:239:A:ILE:CD1	1:239:A:ILE:HG12	1:239:A:ILE:HG13	15	98.71
(1,376)	1:239:A:ILE:CB	1:239:A:ILE:CD1	1:239:A:ILE:HG12	1:239:A:ILE:HG13	17	98.71
(1,373)	1:238:A:GLN:CB	1:238:A:GLN:CD	1:238:A:GLN:HG2	1:238:A:GLN:HG3	9	98.71
(1,351)	1:227:A:ARG:CA	1:227:A:ARG:CG	1:227:A:ARG:HB2	1:227:A:ARG:HB3	9	98.71
(1,437)	1:263:A:LYS:CG	1:263:A:LYS:CE	1:263:A:LYS:HD2	1:263:A:LYS:HD3	4	98.7
(1,437)	1:263:A:LYS:CG	1:263:A:LYS:CE	1:263:A:LYS:HD2	1:263:A:LYS:HD3	5	98.7
(1,406)	1:251:A:LYS:CD	1:251:A:LYS:NZ	1:251:A:LYS:HE2	1:251:A:LYS:HE3	10	98.7
(1,373)	1:238:A:GLN:CB	1:238:A:GLN:CD	1:238:A:GLN:HG2	1:238:A:GLN:HG3	14	98.7
(1,503)	2:10:B:A:C4'	2:10:B:A:O5'	2:10:B:A:H5'	2:10:B:A:H5''	6	98.69
(1,393)	1:247:A:ASP:CA	1:247:A:ASP:CG	1:247:A:ASP:HB2	1:247:A:ASP:HB3	7	98.69
(1,508)	2:11:B:A:C4'	2:11:B:A:O5'	2:11:B:A:H5'	2:11:B:A:H5''	10	98.68
(1,503)	2:10:B:A:C4'	2:10:B:A:O5'	2:10:B:A:H5'	2:10:B:A:H5''	7	98.68
(1,441)	1:265:A:ASN:CA	1:265:A:ASN:CG	1:265:A:ASN:HB2	1:265:A:ASN:HB3	2	98.68
(1,436)	1:263:A:LYS:CD	1:263:A:LYS:NZ	1:263:A:LYS:HE2	1:263:A:LYS:HE3	4	98.68
(1,436)	1:263:A:LYS:CD	1:263:A:LYS:NZ	1:263:A:LYS:HE2	1:263:A:LYS:HE3	7	98.68
(1,435)	1:263:A:LYS:CB	1:263:A:LYS:CD	1:263:A:LYS:HG2	1:263:A:LYS:HG3	10	98.68
(1,428)	1:261:A:GLU:CB	1:261:A:GLU:CD	1:261:A:GLU:HG2	1:261:A:GLU:HG3	10	98.68
(1,399)	1:249:A:ILE:CB	1:249:A:ILE:CD1	1:249:A:ILE:HG12	1:249:A:ILE:HG13	14	98.68
(1,393)	1:247:A:ASP:CA	1:247:A:ASP:CG	1:247:A:ASP:HB2	1:247:A:ASP:HB3	10	98.68
(1,508)	2:11:B:A:C4'	2:11:B:A:O5'	2:11:B:A:H5'	2:11:B:A:H5''	20	98.67
(1,503)	2:10:B:A:C4'	2:10:B:A:O5'	2:10:B:A:H5'	2:10:B:A:H5''	16	98.67
(1,473)	2:4:B:U:C4'	2:4:B:U:O5'	2:4:B:U:H5'	2:4:B:U:H5''	12	98.67
(1,393)	1:247:A:ASP:CA	1:247:A:ASP:CG	1:247:A:ASP:HB2	1:247:A:ASP:HB3	3	98.67
(1,508)	2:11:B:A:C4'	2:11:B:A:O5'	2:11:B:A:H5'	2:11:B:A:H5''	8	98.66
(1,445)	1:267:A:ASN:CA	1:267:A:ASN:CG	1:267:A:ASN:HB2	1:267:A:ASN:HB3	15	98.66
(1,443)	1:266:A:SER:CA	1:266:A:SER:OG	1:266:A:SER:HB2	1:266:A:SER:HB3	17	98.66
(1,508)	2:11:B:A:C4'	2:11:B:A:O5'	2:11:B:A:H5'	2:11:B:A:H5''	18	98.65
(1,445)	1:267:A:ASN:CA	1:267:A:ASN:CG	1:267:A:ASN:HB2	1:267:A:ASN:HB3	4	98.65

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,436)	1:263:A:LYS:CD	1:263:A:LYS:NZ	1:263:A:LYS:HE2	1:263:A:LYS:HE3	9	98.65
(1,493)	2:8:B:U:C4'	2:8:B:U:O5'	2:8:B:U:H5'	2:8:B:U:H5''	15	98.64
(1,448)	1:268:A:ARG:CB	1:268:A:ARG:CD	1:268:A:ARG:HG2	1:268:A:ARG:HG3	8	98.64
(1,436)	1:263:A:LYS:CD	1:263:A:LYS:NZ	1:263:A:LYS:HE2	1:263:A:LYS:HE3	17	98.64
(1,393)	1:247:A:ASP:CA	1:247:A:ASP:CG	1:247:A:ASP:HB2	1:247:A:ASP:HB3	20	98.64
(1,390)	1:246:A:GLU:CA	1:246:A:GLU:CG	1:246:A:GLU:HB2	1:246:A:GLU:HB3	20	98.64
(1,483)	2:6:B:A:C4'	2:6:B:A:O5'	2:6:B:A:H5'	2:6:B:A:H5''	14	98.63
(1,478)	2:5:B:G:C4'	2:5:B:G:O5'	2:5:B:G:H5'	2:5:B:G:H5''	11	98.63
(1,473)	2:4:B:U:C4'	2:4:B:U:O5'	2:4:B:U:H5'	2:4:B:U:H5''	3	98.63
(1,463)	2:2:B:U:C4'	2:2:B:U:O5'	2:2:B:U:H5'	2:2:B:U:H5''	7	98.63
(1,448)	1:268:A:ARG:CB	1:268:A:ARG:CD	1:268:A:ARG:HG2	1:268:A:ARG:HG3	16	98.63
(1,441)	1:265:A:ASN:CA	1:265:A:ASN:CG	1:265:A:ASN:HB2	1:265:A:ASN:HB3	5	98.63
(1,376)	1:239:A:ILE:CB	1:239:A:ILE:CD1	1:239:A:ILE:HG12	1:239:A:ILE:HG13	14	98.63
(1,373)	1:238:A:GLN:CB	1:238:A:GLN:CD	1:238:A:GLN:HG2	1:238:A:GLN:HG3	19	98.63
(1,513)	2:12:B:U:C4'	2:12:B:U:O5'	2:12:B:U:H5'	2:12:B:U:H5''	16	98.62
(1,376)	1:239:A:ILE:CB	1:239:A:ILE:CD1	1:239:A:ILE:HG12	1:239:A:ILE:HG13	3	98.62
(1,493)	2:8:B:U:C4'	2:8:B:U:O5'	2:8:B:U:H5'	2:8:B:U:H5''	6	98.61
(1,376)	1:239:A:ILE:CB	1:239:A:ILE:CD1	1:239:A:ILE:HG12	1:239:A:ILE:HG13	10	98.61
(1,508)	2:11:B:A:C4'	2:11:B:A:O5'	2:11:B:A:H5'	2:11:B:A:H5''	2	98.6
(1,483)	2:6:B:A:C4'	2:6:B:A:O5'	2:6:B:A:H5'	2:6:B:A:H5''	5	98.6
(1,473)	2:4:B:U:C4'	2:4:B:U:O5'	2:4:B:U:H5'	2:4:B:U:H5''	7	98.6
(1,463)	2:2:B:U:C4'	2:2:B:U:O5'	2:2:B:U:H5'	2:2:B:U:H5''	2	98.6
(1,435)	1:263:A:LYS:CB	1:263:A:LYS:CD	1:263:A:LYS:HG2	1:263:A:LYS:HG3	3	98.6
(1,513)	2:12:B:U:C4'	2:12:B:U:O5'	2:12:B:U:H5'	2:12:B:U:H5''	11	98.59
(1,463)	2:2:B:U:C4'	2:2:B:U:O5'	2:2:B:U:H5'	2:2:B:U:H5''	17	98.59
(1,448)	1:268:A:ARG:CB	1:268:A:ARG:CD	1:268:A:ARG:HG2	1:268:A:ARG:HG3	14	98.59
(1,406)	1:251:A:LYS:CD	1:251:A:LYS:NZ	1:251:A:LYS:HE2	1:251:A:LYS:HE3	4	98.59
(1,406)	1:251:A:LYS:CD	1:251:A:LYS:NZ	1:251:A:LYS:HE2	1:251:A:LYS:HE3	13	98.59
(1,351)	1:227:A:ARG:CA	1:227:A:ARG:CG	1:227:A:ARG:HB2	1:227:A:ARG:HB3	1	98.59
(1,493)	2:8:B:U:C4'	2:8:B:U:O5'	2:8:B:U:H5'	2:8:B:U:H5''	19	98.58
(1,406)	1:251:A:LYS:CD	1:251:A:LYS:NZ	1:251:A:LYS:HE2	1:251:A:LYS:HE3	17	98.58
(1,399)	1:249:A:ILE:CB	1:249:A:ILE:CD1	1:249:A:ILE:HG12	1:249:A:ILE:HG13	1	98.58
(1,376)	1:239:A:ILE:CB	1:239:A:ILE:CD1	1:239:A:ILE:HG12	1:239:A:ILE:HG13	18	98.58
(1,508)	2:11:B:A:C4'	2:11:B:A:O5'	2:11:B:A:H5'	2:11:B:A:H5''	4	98.57
(1,493)	2:8:B:U:C4'	2:8:B:U:O5'	2:8:B:U:H5'	2:8:B:U:H5''	7	98.57
(1,483)	2:6:B:A:C4'	2:6:B:A:O5'	2:6:B:A:H5'	2:6:B:A:H5''	18	98.57
(1,463)	2:2:B:U:C4'	2:2:B:U:O5'	2:2:B:U:H5'	2:2:B:U:H5''	15	98.57
(1,406)	1:251:A:LYS:CD	1:251:A:LYS:NZ	1:251:A:LYS:HE2	1:251:A:LYS:HE3	7	98.57
(1,406)	1:251:A:LYS:CD	1:251:A:LYS:NZ	1:251:A:LYS:HE2	1:251:A:LYS:HE3	11	98.57
(1,399)	1:249:A:ILE:CB	1:249:A:ILE:CD1	1:249:A:ILE:HG12	1:249:A:ILE:HG13	11	98.57
(1,351)	1:227:A:ARG:CA	1:227:A:ARG:CG	1:227:A:ARG:HB2	1:227:A:ARG:HB3	18	98.57
(1,508)	2:11:B:A:C4'	2:11:B:A:O5'	2:11:B:A:H5'	2:11:B:A:H5''	13	98.56
(1,493)	2:8:B:U:C4'	2:8:B:U:O5'	2:8:B:U:H5'	2:8:B:U:H5''	3	98.56
(1,458)	2:1:B:G:C4'	2:1:B:G:O5'	2:1:B:G:H5'	2:1:B:G:H5''	1	98.56
(1,399)	1:249:A:ILE:CB	1:249:A:ILE:CD1	1:249:A:ILE:HG12	1:249:A:ILE:HG13	9	98.56
(1,376)	1:239:A:ILE:CB	1:239:A:ILE:CD1	1:239:A:ILE:HG12	1:239:A:ILE:HG13	20	98.56
(1,413)	1:254:A:SER:CA	1:254:A:SER:OG	1:254:A:SER:HB2	1:254:A:SER:HB3	15	98.55
(1,413)	1:254:A:SER:CA	1:254:A:SER:OG	1:254:A:SER:HB2	1:254:A:SER:HB3	17	98.55
(1,376)	1:239:A:ILE:CB	1:239:A:ILE:CD1	1:239:A:ILE:HG12	1:239:A:ILE:HG13	2	98.55
(1,376)	1:239:A:ILE:CB	1:239:A:ILE:CD1	1:239:A:ILE:HG12	1:239:A:ILE:HG13	4	98.55
(1,376)	1:239:A:ILE:CB	1:239:A:ILE:CD1	1:239:A:ILE:HG12	1:239:A:ILE:HG13	9	98.55

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,376)	1:239:A:ILE:CB	1:239:A:ILE:CD1	1:239:A:ILE:HG12	1:239:A:ILE:HG13	19	98.55
(1,513)	2:12:B:U:C4'	2:12:B:U:O5'	2:12:B:U:H5'	2:12:B:U:H5''	15	98.54
(1,503)	2:10:B:A:C4'	2:10:B:A:O5'	2:10:B:A:H5'	2:10:B:A:H5''	10	98.54
(1,493)	2:8:B:U:C4'	2:8:B:U:O5'	2:8:B:U:H5'	2:8:B:U:H5''	1	98.54
(1,463)	2:2:B:U:C4'	2:2:B:U:O5'	2:2:B:U:H5'	2:2:B:U:H5''	18	98.54
(1,430)	1:262:A:PRO:CA	1:262:A:PRO:CG	1:262:A:PRO:HB2	1:262:A:PRO:HB3	15	98.54
(1,373)	1:238:A:GLN:CB	1:238:A:GLN:CD	1:238:A:GLN:HG2	1:238:A:GLN:HG3	11	98.54
(1,483)	2:6:B:A:C4'	2:6:B:A:O5'	2:6:B:A:H5'	2:6:B:A:H5''	1	98.53
(1,406)	1:251:A:LYS:CD	1:251:A:LYS:NZ	1:251:A:LYS:HE2	1:251:A:LYS:HE3	5	98.53
(1,406)	1:251:A:LYS:CD	1:251:A:LYS:NZ	1:251:A:LYS:HE2	1:251:A:LYS:HE3	12	98.53
(1,513)	2:12:B:U:C4'	2:12:B:U:O5'	2:12:B:U:H5'	2:12:B:U:H5''	13	98.52
(1,436)	1:263:A:LYS:CD	1:263:A:LYS:NZ	1:263:A:LYS:HE2	1:263:A:LYS:HE3	13	98.52
(1,399)	1:249:A:ILE:CB	1:249:A:ILE:CD1	1:249:A:ILE:HG12	1:249:A:ILE:HG13	18	98.52
(1,513)	2:12:B:U:C4'	2:12:B:U:O5'	2:12:B:U:H5'	2:12:B:U:H5''	10	98.51
(1,463)	2:2:B:U:C4'	2:2:B:U:O5'	2:2:B:U:H5'	2:2:B:U:H5''	9	98.51
(1,435)	1:263:A:LYS:CB	1:263:A:LYS:CD	1:263:A:LYS:HG2	1:263:A:LYS:HG3	7	98.51
(1,406)	1:251:A:LYS:CD	1:251:A:LYS:NZ	1:251:A:LYS:HE2	1:251:A:LYS:HE3	9	98.51
(1,406)	1:251:A:LYS:CD	1:251:A:LYS:NZ	1:251:A:LYS:HE2	1:251:A:LYS:HE3	16	98.51
(1,376)	1:239:A:ILE:CB	1:239:A:ILE:CD1	1:239:A:ILE:HG12	1:239:A:ILE:HG13	5	98.51
(1,513)	2:12:B:U:C4'	2:12:B:U:O5'	2:12:B:U:H5'	2:12:B:U:H5''	7	98.5
(1,483)	2:6:B:A:C4'	2:6:B:A:O5'	2:6:B:A:H5'	2:6:B:A:H5''	11	98.5
(1,477)	2:5:B:G:C3'	2:5:B:G:C5'	2:5:B:G:O4'	2:5:B:G:H4'	20	98.5
(1,436)	1:263:A:LYS:CD	1:263:A:LYS:NZ	1:263:A:LYS:HE2	1:263:A:LYS:HE3	3	98.49
(1,513)	2:12:B:U:C4'	2:12:B:U:O5'	2:12:B:U:H5'	2:12:B:U:H5''	6	98.48
(1,458)	2:1:B:G:C4'	2:1:B:G:O5'	2:1:B:G:H5'	2:1:B:G:H5''	2	98.48
(1,449)	1:268:A:ARG:CG	1:268:A:ARG:NE	1:268:A:ARG:HD2	1:268:A:ARG:HD3	13	98.48
(1,448)	1:268:A:ARG:CB	1:268:A:ARG:CD	1:268:A:ARG:HG2	1:268:A:ARG:HG3	3	98.48
(1,406)	1:251:A:LYS:CD	1:251:A:LYS:NZ	1:251:A:LYS:HE2	1:251:A:LYS:HE3	1	98.48
(1,406)	1:251:A:LYS:CD	1:251:A:LYS:NZ	1:251:A:LYS:HE2	1:251:A:LYS:HE3	2	98.48
(1,406)	1:251:A:LYS:CD	1:251:A:LYS:NZ	1:251:A:LYS:HE2	1:251:A:LYS:HE3	15	98.48
(1,382)	1:242:A:SER:CA	1:242:A:SER:OG	1:242:A:SER:HB2	1:242:A:SER:HB3	20	98.48
(1,448)	1:268:A:ARG:CB	1:268:A:ARG:CD	1:268:A:ARG:HG2	1:268:A:ARG:HG3	20	98.47
(1,435)	1:263:A:LYS:CB	1:263:A:LYS:CD	1:263:A:LYS:HG2	1:263:A:LYS:HG3	8	98.47
(1,433)	1:262:A:PRO:N	1:262:A:PRO:C	1:262:A:PRO:HA	1:262:A:PRO:CB	11	98.47
(1,382)	1:242:A:SER:CA	1:242:A:SER:OG	1:242:A:SER:HB2	1:242:A:SER:HB3	1	98.47
(1,352)	1:227:A:ARG:CB	1:227:A:ARG:CD	1:227:A:ARG:HG2	1:227:A:ARG:HG3	18	98.47
(1,513)	2:12:B:U:C4'	2:12:B:U:O5'	2:12:B:U:H5'	2:12:B:U:H5''	19	98.46
(1,508)	2:11:B:A:C4'	2:11:B:A:O5'	2:11:B:A:H5'	2:11:B:A:H5''	6	98.46
(1,488)	2:7:B:A:C4'	2:7:B:A:O5'	2:7:B:A:H5'	2:7:B:A:H5''	16	98.46
(1,458)	2:1:B:G:C4'	2:1:B:G:O5'	2:1:B:G:H5'	2:1:B:G:H5''	18	98.46
(1,399)	1:249:A:ILE:CB	1:249:A:ILE:CD1	1:249:A:ILE:HG12	1:249:A:ILE:HG13	13	98.46
(1,513)	2:12:B:U:C4'	2:12:B:U:O5'	2:12:B:U:H5'	2:12:B:U:H5''	14	98.45
(1,463)	2:2:B:U:C4'	2:2:B:U:O5'	2:2:B:U:H5'	2:2:B:U:H5''	20	98.45
(1,413)	1:254:A:SER:CA	1:254:A:SER:OG	1:254:A:SER:HB2	1:254:A:SER:HB3	2	98.45
(1,406)	1:251:A:LYS:CD	1:251:A:LYS:NZ	1:251:A:LYS:HE2	1:251:A:LYS:HE3	3	98.45
(1,458)	2:1:B:G:C4'	2:1:B:G:O5'	2:1:B:G:H5'	2:1:B:G:H5''	15	98.44
(1,443)	1:266:A:SER:CA	1:266:A:SER:OG	1:266:A:SER:HB2	1:266:A:SER:HB3	4	98.44
(1,443)	1:266:A:SER:CA	1:266:A:SER:OG	1:266:A:SER:HB2	1:266:A:SER:HB3	8	98.44
(1,435)	1:263:A:LYS:CB	1:263:A:LYS:CD	1:263:A:LYS:HG2	1:263:A:LYS:HG3	17	98.44
(1,406)	1:251:A:LYS:CD	1:251:A:LYS:NZ	1:251:A:LYS:HE2	1:251:A:LYS:HE3	14	98.44
(1,382)	1:242:A:SER:CA	1:242:A:SER:OG	1:242:A:SER:HB2	1:242:A:SER:HB3	2	98.44

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,352)	1:227:A:ARG:CB	1:227:A:ARG:CD	1:227:A:ARG:HG2	1:227:A:ARG:HG3	17	98.44
(1,513)	2:12:B:U:C4'	2:12:B:U:O5'	2:12:B:U:H5'	2:12:B:U:H5''	12	98.43
(1,508)	2:11:B:A:C4'	2:11:B:A:O5'	2:11:B:A:H5'	2:11:B:A:H5''	5	98.43
(1,508)	2:11:B:A:C4'	2:11:B:A:O5'	2:11:B:A:H5'	2:11:B:A:H5''	16	98.43
(1,473)	2:4:B:U:C4'	2:4:B:U:O5'	2:4:B:U:H5'	2:4:B:U:H5''	16	98.43
(1,443)	1:266:A:SER:CA	1:266:A:SER:OG	1:266:A:SER:HB2	1:266:A:SER:HB3	9	98.43
(1,430)	1:262:A:PRO:CA	1:262:A:PRO:CG	1:262:A:PRO:HB2	1:262:A:PRO:HB3	10	98.43
(1,376)	1:239:A:ILE:CB	1:239:A:ILE:CD1	1:239:A:ILE:HG12	1:239:A:ILE:HG13	11	98.43
(1,503)	2:10:B:A:C4'	2:10:B:A:O5'	2:10:B:A:H5'	2:10:B:A:H5''	20	98.42
(1,449)	1:268:A:ARG:CG	1:268:A:ARG:NE	1:268:A:ARG:HD2	1:268:A:ARG:HD3	6	98.42
(1,413)	1:254:A:SER:CA	1:254:A:SER:OG	1:254:A:SER:HB2	1:254:A:SER:HB3	14	98.42
(1,406)	1:251:A:LYS:CD	1:251:A:LYS:NZ	1:251:A:LYS:HE2	1:251:A:LYS:HE3	6	98.42
(1,443)	1:266:A:SER:CA	1:266:A:SER:OG	1:266:A:SER:HB2	1:266:A:SER:HB3	5	98.41
(1,399)	1:249:A:ILE:CB	1:249:A:ILE:CD1	1:249:A:ILE:HG12	1:249:A:ILE:HG13	16	98.41
(1,382)	1:242:A:SER:CA	1:242:A:SER:OG	1:242:A:SER:HB2	1:242:A:SER:HB3	16	98.41
(1,352)	1:227:A:ARG:CB	1:227:A:ARG:CD	1:227:A:ARG:HG2	1:227:A:ARG:HG3	19	98.41
(1,478)	2:5:B:G:C4'	2:5:B:G:O5'	2:5:B:G:H5'	2:5:B:G:H5''	1	98.4
(1,463)	2:2:B:U:C4'	2:2:B:U:O5'	2:2:B:U:H5'	2:2:B:U:H5''	14	98.4
(1,449)	1:268:A:ARG:CG	1:268:A:ARG:NE	1:268:A:ARG:HD2	1:268:A:ARG:HD3	1	98.4
(1,435)	1:263:A:LYS:CB	1:263:A:LYS:CD	1:263:A:LYS:HG2	1:263:A:LYS:HG3	2	98.4
(1,422)	1:258:A:SER:CA	1:258:A:SER:OG	1:258:A:SER:HB2	1:258:A:SER:HB3	18	98.4
(1,376)	1:239:A:ILE:CB	1:239:A:ILE:CD1	1:239:A:ILE:HG12	1:239:A:ILE:HG13	6	98.4
(1,352)	1:227:A:ARG:CB	1:227:A:ARG:CD	1:227:A:ARG:HG2	1:227:A:ARG:HG3	10	98.4
(1,463)	2:2:B:U:C4'	2:2:B:U:O5'	2:2:B:U:H5'	2:2:B:U:H5''	3	98.39
(1,458)	2:1:B:G:C4'	2:1:B:G:O5'	2:1:B:G:H5'	2:1:B:G:H5''	17	98.39
(1,382)	1:242:A:SER:CA	1:242:A:SER:OG	1:242:A:SER:HB2	1:242:A:SER:HB3	18	98.39
(1,458)	2:1:B:G:C4'	2:1:B:G:O5'	2:1:B:G:H5'	2:1:B:G:H5''	4	98.38
(1,435)	1:263:A:LYS:CB	1:263:A:LYS:CD	1:263:A:LYS:HG2	1:263:A:LYS:HG3	19	98.38
(1,431)	1:262:A:PRO:CB	1:262:A:PRO:CD	1:262:A:PRO:HG2	1:262:A:PRO:HG3	12	98.38
(1,431)	1:262:A:PRO:CB	1:262:A:PRO:CD	1:262:A:PRO:HG2	1:262:A:PRO:HG3	18	98.38
(1,406)	1:251:A:LYS:CD	1:251:A:LYS:NZ	1:251:A:LYS:HE2	1:251:A:LYS:HE3	20	98.38
(1,376)	1:239:A:ILE:CB	1:239:A:ILE:CD1	1:239:A:ILE:HG12	1:239:A:ILE:HG13	7	98.38
(1,351)	1:227:A:ARG:CA	1:227:A:ARG:CG	1:227:A:ARG:HB2	1:227:A:ARG:HB3	6	98.38
(1,513)	2:12:B:U:C4'	2:12:B:U:O5'	2:12:B:U:H5'	2:12:B:U:H5''	1	98.37
(1,513)	2:12:B:U:C4'	2:12:B:U:O5'	2:12:B:U:H5'	2:12:B:U:H5''	18	98.37
(1,483)	2:6:B:A:C4'	2:6:B:A:O5'	2:6:B:A:H5'	2:6:B:A:H5''	2	98.37
(1,463)	2:2:B:U:C4'	2:2:B:U:O5'	2:2:B:U:H5'	2:2:B:U:H5''	8	98.37
(1,463)	2:2:B:U:C4'	2:2:B:U:O5'	2:2:B:U:H5'	2:2:B:U:H5''	11	98.37
(1,431)	1:262:A:PRO:CB	1:262:A:PRO:CD	1:262:A:PRO:HG2	1:262:A:PRO:HG3	8	98.37
(1,413)	1:254:A:SER:CA	1:254:A:SER:OG	1:254:A:SER:HB2	1:254:A:SER:HB3	6	98.37
(1,498)	2:9:B:G:C4'	2:9:B:G:O5'	2:9:B:G:H5'	2:9:B:G:H5''	9	98.36
(1,463)	2:2:B:U:C4'	2:2:B:U:O5'	2:2:B:U:H5'	2:2:B:U:H5''	5	98.36
(1,430)	1:262:A:PRO:CA	1:262:A:PRO:CG	1:262:A:PRO:HB2	1:262:A:PRO:HB3	4	98.36
(1,503)	2:10:B:A:C4'	2:10:B:A:O5'	2:10:B:A:H5'	2:10:B:A:H5''	1	98.35
(1,437)	1:263:A:LYS:CG	1:263:A:LYS:CE	1:263:A:LYS:HD2	1:263:A:LYS:HD3	8	98.35
(1,351)	1:227:A:ARG:CA	1:227:A:ARG:CG	1:227:A:ARG:HB2	1:227:A:ARG:HB3	16	98.35
(1,508)	2:11:B:A:C4'	2:11:B:A:O5'	2:11:B:A:H5'	2:11:B:A:H5''	12	98.34
(1,488)	2:7:B:A:C4'	2:7:B:A:O5'	2:7:B:A:H5'	2:7:B:A:H5''	11	98.34
(1,435)	1:263:A:LYS:CB	1:263:A:LYS:CD	1:263:A:LYS:HG2	1:263:A:LYS:HG3	20	98.34
(1,433)	1:262:A:PRO:N	1:262:A:PRO:C	1:262:A:PRO:HA	1:262:A:PRO:CB	1	98.34
(1,413)	1:254:A:SER:CA	1:254:A:SER:OG	1:254:A:SER:HB2	1:254:A:SER:HB3	12	98.34

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,382)	1:242:A:SER:CA	1:242:A:SER:OG	1:242:A:SER:HB2	1:242:A:SER:HB3	5	98.34
(1,382)	1:242:A:SER:CA	1:242:A:SER:OG	1:242:A:SER:HB2	1:242:A:SER:HB3	8	98.34
(1,382)	1:242:A:SER:CA	1:242:A:SER:OG	1:242:A:SER:HB2	1:242:A:SER:HB3	11	98.34
(1,513)	2:12:B:U:C4'	2:12:B:U:O5'	2:12:B:U:H5'	2:12:B:U:H5''	9	98.32
(1,508)	2:11:B:A:C4'	2:11:B:A:O5'	2:11:B:A:H5'	2:11:B:A:H5''	14	98.32
(1,498)	2:9:B:G:C4'	2:9:B:G:O5'	2:9:B:G:H5'	2:9:B:G:H5''	14	98.32
(1,463)	2:2:B:U:C4'	2:2:B:U:O5'	2:2:B:U:H5'	2:2:B:U:H5''	19	98.32
(1,458)	2:1:B:G:C4'	2:1:B:G:O5'	2:1:B:G:H5'	2:1:B:G:H5''	11	98.32
(1,458)	2:1:B:G:C4'	2:1:B:G:O5'	2:1:B:G:H5'	2:1:B:G:H5''	16	98.32
(1,449)	1:268:A:ARG:CG	1:268:A:ARG:NE	1:268:A:ARG:HD2	1:268:A:ARG:HD3	19	98.32
(1,413)	1:254:A:SER:CA	1:254:A:SER:OG	1:254:A:SER:HB2	1:254:A:SER:HB3	4	98.32
(1,406)	1:251:A:LYS:CD	1:251:A:LYS:NZ	1:251:A:LYS:HE2	1:251:A:LYS:HE3	8	98.32
(1,352)	1:227:A:ARG:CB	1:227:A:ARG:CD	1:227:A:ARG:HG2	1:227:A:ARG:HG3	5	98.32
(1,382)	1:242:A:SER:CA	1:242:A:SER:OG	1:242:A:SER:HB2	1:242:A:SER:HB3	17	98.31
(1,513)	2:12:B:U:C4'	2:12:B:U:O5'	2:12:B:U:H5'	2:12:B:U:H5''	3	98.3
(1,458)	2:1:B:G:C4'	2:1:B:G:O5'	2:1:B:G:H5'	2:1:B:G:H5''	5	98.3
(1,352)	1:227:A:ARG:CB	1:227:A:ARG:CD	1:227:A:ARG:HG2	1:227:A:ARG:HG3	4	98.3
(1,503)	2:10:B:A:C4'	2:10:B:A:O5'	2:10:B:A:H5'	2:10:B:A:H5''	18	98.29
(1,458)	2:1:B:G:C4'	2:1:B:G:O5'	2:1:B:G:H5'	2:1:B:G:H5''	9	98.29
(1,443)	1:266:A:SER:CA	1:266:A:SER:OG	1:266:A:SER:HB2	1:266:A:SER:HB3	18	98.29
(1,422)	1:258:A:SER:CA	1:258:A:SER:OG	1:258:A:SER:HB2	1:258:A:SER:HB3	20	98.29
(1,413)	1:254:A:SER:CA	1:254:A:SER:OG	1:254:A:SER:HB2	1:254:A:SER:HB3	10	98.29
(1,382)	1:242:A:SER:CA	1:242:A:SER:OG	1:242:A:SER:HB2	1:242:A:SER:HB3	6	98.29
(1,503)	2:10:B:A:C4'	2:10:B:A:O5'	2:10:B:A:H5'	2:10:B:A:H5''	12	98.28
(1,498)	2:9:B:G:C4'	2:9:B:G:O5'	2:9:B:G:H5'	2:9:B:G:H5''	3	98.28
(1,463)	2:2:B:U:C4'	2:2:B:U:O5'	2:2:B:U:H5'	2:2:B:U:H5''	16	98.28
(1,458)	2:1:B:G:C4'	2:1:B:G:O5'	2:1:B:G:H5'	2:1:B:G:H5''	6	98.28
(1,449)	1:268:A:ARG:CG	1:268:A:ARG:NE	1:268:A:ARG:HD2	1:268:A:ARG:HD3	17	98.28
(1,422)	1:258:A:SER:CA	1:258:A:SER:OG	1:258:A:SER:HB2	1:258:A:SER:HB3	4	98.28
(1,382)	1:242:A:SER:CA	1:242:A:SER:OG	1:242:A:SER:HB2	1:242:A:SER:HB3	14	98.28
(1,458)	2:1:B:G:C4'	2:1:B:G:O5'	2:1:B:G:H5'	2:1:B:G:H5''	7	98.27
(1,458)	2:1:B:G:C4'	2:1:B:G:O5'	2:1:B:G:H5'	2:1:B:G:H5''	14	98.27
(1,463)	2:2:B:U:C4'	2:2:B:U:O5'	2:2:B:U:H5'	2:2:B:U:H5''	12	98.26
(1,503)	2:10:B:A:C4'	2:10:B:A:O5'	2:10:B:A:H5'	2:10:B:A:H5''	19	98.25
(1,493)	2:8:B:U:C4'	2:8:B:U:O5'	2:8:B:U:H5'	2:8:B:U:H5''	12	98.25
(1,382)	1:242:A:SER:CA	1:242:A:SER:OG	1:242:A:SER:HB2	1:242:A:SER:HB3	3	98.25
(1,382)	1:242:A:SER:CA	1:242:A:SER:OG	1:242:A:SER:HB2	1:242:A:SER:HB3	4	98.25
(1,352)	1:227:A:ARG:CB	1:227:A:ARG:CD	1:227:A:ARG:HG2	1:227:A:ARG:HG3	11	98.25
(1,508)	2:11:B:A:C4'	2:11:B:A:O5'	2:11:B:A:H5'	2:11:B:A:H5''	1	98.24
(1,458)	2:1:B:G:C4'	2:1:B:G:O5'	2:1:B:G:H5'	2:1:B:G:H5''	12	98.24
(1,458)	2:1:B:G:C4'	2:1:B:G:O5'	2:1:B:G:H5'	2:1:B:G:H5''	19	98.24
(1,443)	1:266:A:SER:CA	1:266:A:SER:OG	1:266:A:SER:HB2	1:266:A:SER:HB3	1	98.24
(1,431)	1:262:A:PRO:CB	1:262:A:PRO:CD	1:262:A:PRO:HG2	1:262:A:PRO:HG3	5	98.24
(1,382)	1:242:A:SER:CA	1:242:A:SER:OG	1:242:A:SER:HB2	1:242:A:SER:HB3	13	98.24
(1,458)	2:1:B:G:C4'	2:1:B:G:O5'	2:1:B:G:H5'	2:1:B:G:H5''	13	98.23
(1,430)	1:262:A:PRO:CA	1:262:A:PRO:CG	1:262:A:PRO:HB2	1:262:A:PRO:HB3	16	98.23
(1,458)	2:1:B:G:C4'	2:1:B:G:O5'	2:1:B:G:H5'	2:1:B:G:H5''	3	98.22
(1,443)	1:266:A:SER:CA	1:266:A:SER:OG	1:266:A:SER:HB2	1:266:A:SER:HB3	20	98.22
(1,433)	1:262:A:PRO:N	1:262:A:PRO:C	1:262:A:PRO:HA	1:262:A:PRO:CB	9	98.22
(1,422)	1:258:A:SER:CA	1:258:A:SER:OG	1:258:A:SER:HB2	1:258:A:SER:HB3	14	98.22
(1,503)	2:10:B:A:C4'	2:10:B:A:O5'	2:10:B:A:H5'	2:10:B:A:H5''	9	98.21

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,498)	2:9:B:G:C4'	2:9:B:G:O5'	2:9:B:G:H5'	2:9:B:G:H5''	19	98.21
(1,430)	1:262:A:PRO:CA	1:262:A:PRO:CG	1:262:A:PRO:HB2	1:262:A:PRO:HB3	11	98.21
(1,458)	2:1:B:G:C4'	2:1:B:G:O5'	2:1:B:G:H5'	2:1:B:G:H5''	8	98.2
(1,431)	1:262:A:PRO:CB	1:262:A:PRO:CD	1:262:A:PRO:HG2	1:262:A:PRO:HG3	14	98.2
(1,430)	1:262:A:PRO:CA	1:262:A:PRO:CG	1:262:A:PRO:HB2	1:262:A:PRO:HB3	19	98.2
(1,413)	1:254:A:SER:CA	1:254:A:SER:OG	1:254:A:SER:HB2	1:254:A:SER:HB3	7	98.2
(1,508)	2:11:B:A:C4'	2:11:B:A:O5'	2:11:B:A:H5'	2:11:B:A:H5''	9	98.19
(1,430)	1:262:A:PRO:CA	1:262:A:PRO:CG	1:262:A:PRO:HB2	1:262:A:PRO:HB3	13	98.19
(1,422)	1:258:A:SER:CA	1:258:A:SER:OG	1:258:A:SER:HB2	1:258:A:SER:HB3	7	98.19
(1,413)	1:254:A:SER:CA	1:254:A:SER:OG	1:254:A:SER:HB2	1:254:A:SER:HB3	8	98.19
(1,513)	2:12:B:U:C4'	2:12:B:U:O5'	2:12:B:U:H5'	2:12:B:U:H5''	2	98.18
(1,433)	1:262:A:PRO:N	1:262:A:PRO:C	1:262:A:PRO:HA	1:262:A:PRO:CB	13	98.18
(1,430)	1:262:A:PRO:CA	1:262:A:PRO:CG	1:262:A:PRO:HB2	1:262:A:PRO:HB3	9	98.18
(1,382)	1:242:A:SER:CA	1:242:A:SER:OG	1:242:A:SER:HB2	1:242:A:SER:HB3	7	98.18
(1,431)	1:262:A:PRO:CB	1:262:A:PRO:CD	1:262:A:PRO:HG2	1:262:A:PRO:HG3	20	98.17
(1,422)	1:258:A:SER:CA	1:258:A:SER:OG	1:258:A:SER:HB2	1:258:A:SER:HB3	19	98.17
(1,352)	1:227:A:ARG:CB	1:227:A:ARG:CD	1:227:A:ARG:HG2	1:227:A:ARG:HG3	9	98.17
(1,443)	1:266:A:SER:CA	1:266:A:SER:OG	1:266:A:SER:HB2	1:266:A:SER:HB3	11	98.16
(1,443)	1:266:A:SER:CA	1:266:A:SER:OG	1:266:A:SER:HB2	1:266:A:SER:HB3	15	98.16
(1,422)	1:258:A:SER:CA	1:258:A:SER:OG	1:258:A:SER:HB2	1:258:A:SER:HB3	8	98.16
(1,508)	2:11:B:A:C4'	2:11:B:A:O5'	2:11:B:A:H5'	2:11:B:A:H5''	17	98.15
(1,503)	2:10:B:A:C4'	2:10:B:A:O5'	2:10:B:A:H5'	2:10:B:A:H5''	4	98.15
(1,478)	2:5:B:G:C4'	2:5:B:G:O5'	2:5:B:G:H5'	2:5:B:G:H5''	14	98.15
(1,463)	2:2:B:U:C4'	2:2:B:U:O5'	2:2:B:U:H5'	2:2:B:U:H5''	6	98.15
(1,458)	2:1:B:G:C4'	2:1:B:G:O5'	2:1:B:G:H5'	2:1:B:G:H5''	10	98.15
(1,430)	1:262:A:PRO:CA	1:262:A:PRO:CG	1:262:A:PRO:HB2	1:262:A:PRO:HB3	2	98.15
(1,422)	1:258:A:SER:CA	1:258:A:SER:OG	1:258:A:SER:HB2	1:258:A:SER:HB3	2	98.15
(1,443)	1:266:A:SER:CA	1:266:A:SER:OG	1:266:A:SER:HB2	1:266:A:SER:HB3	10	98.14
(1,413)	1:254:A:SER:CA	1:254:A:SER:OG	1:254:A:SER:HB2	1:254:A:SER:HB3	1	98.14
(1,413)	1:254:A:SER:CA	1:254:A:SER:OG	1:254:A:SER:HB2	1:254:A:SER:HB3	19	98.14
(1,422)	1:258:A:SER:CA	1:258:A:SER:OG	1:258:A:SER:HB2	1:258:A:SER:HB3	1	98.13
(1,413)	1:254:A:SER:CA	1:254:A:SER:OG	1:254:A:SER:HB2	1:254:A:SER:HB3	5	98.13
(1,503)	2:10:B:A:C4'	2:10:B:A:O5'	2:10:B:A:H5'	2:10:B:A:H5''	5	98.12
(1,458)	2:1:B:G:C4'	2:1:B:G:O5'	2:1:B:G:H5'	2:1:B:G:H5''	20	98.12
(1,435)	1:263:A:LYS:CB	1:263:A:LYS:CD	1:263:A:LYS:HG2	1:263:A:LYS:HG3	18	98.11
(1,483)	2:6:B:A:C4'	2:6:B:A:O5'	2:6:B:A:H5'	2:6:B:A:H5''	15	98.1
(1,443)	1:266:A:SER:CA	1:266:A:SER:OG	1:266:A:SER:HB2	1:266:A:SER:HB3	7	98.09
(1,443)	1:266:A:SER:CA	1:266:A:SER:OG	1:266:A:SER:HB2	1:266:A:SER:HB3	12	98.09
(1,422)	1:258:A:SER:CA	1:258:A:SER:OG	1:258:A:SER:HB2	1:258:A:SER:HB3	3	98.09
(1,422)	1:258:A:SER:CA	1:258:A:SER:OG	1:258:A:SER:HB2	1:258:A:SER:HB3	9	98.09
(1,413)	1:254:A:SER:CA	1:254:A:SER:OG	1:254:A:SER:HB2	1:254:A:SER:HB3	20	98.09
(1,498)	2:9:B:G:C4'	2:9:B:G:O5'	2:9:B:G:H5'	2:9:B:G:H5''	8	98.08
(1,488)	2:7:B:A:C4'	2:7:B:A:O5'	2:7:B:A:H5'	2:7:B:A:H5''	3	98.08
(1,443)	1:266:A:SER:CA	1:266:A:SER:OG	1:266:A:SER:HB2	1:266:A:SER:HB3	13	98.08
(1,433)	1:262:A:PRO:N	1:262:A:PRO:C	1:262:A:PRO:HA	1:262:A:PRO:CB	7	98.08
(1,430)	1:262:A:PRO:CA	1:262:A:PRO:CG	1:262:A:PRO:HB2	1:262:A:PRO:HB3	1	98.08
(1,422)	1:258:A:SER:CA	1:258:A:SER:OG	1:258:A:SER:HB2	1:258:A:SER:HB3	12	98.08
(1,443)	1:266:A:SER:CA	1:266:A:SER:OG	1:266:A:SER:HB2	1:266:A:SER:HB3	14	98.07
(1,422)	1:258:A:SER:CA	1:258:A:SER:OG	1:258:A:SER:HB2	1:258:A:SER:HB3	13	98.07
(1,443)	1:266:A:SER:CA	1:266:A:SER:OG	1:266:A:SER:HB2	1:266:A:SER:HB3	16	98.06
(1,433)	1:262:A:PRO:N	1:262:A:PRO:C	1:262:A:PRO:HA	1:262:A:PRO:CB	17	98.06

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,430)	1:262:A:PRO:CA	1:262:A:PRO:CG	1:262:A:PRO:HB2	1:262:A:PRO:HB3	7	98.06
(1,498)	2:9:B:G:C4'	2:9:B:G:O5'	2:9:B:G:H5'	2:9:B:G:H5''	2	98.05
(1,435)	1:263:A:LYS:CB	1:263:A:LYS:CD	1:263:A:LYS:HG2	1:263:A:LYS:HG3	14	98.05
(1,422)	1:258:A:SER:CA	1:258:A:SER:OG	1:258:A:SER:HB2	1:258:A:SER:HB3	10	98.05
(1,382)	1:242:A:SER:CA	1:242:A:SER:OG	1:242:A:SER:HB2	1:242:A:SER:HB3	10	98.04
(1,422)	1:258:A:SER:CA	1:258:A:SER:OG	1:258:A:SER:HB2	1:258:A:SER:HB3	11	98.03
(1,443)	1:266:A:SER:CA	1:266:A:SER:OG	1:266:A:SER:HB2	1:266:A:SER:HB3	3	98.02
(1,433)	1:262:A:PRO:N	1:262:A:PRO:C	1:262:A:PRO:HA	1:262:A:PRO:CB	4	98.02
(1,422)	1:258:A:SER:CA	1:258:A:SER:OG	1:258:A:SER:HB2	1:258:A:SER:HB3	6	98.02
(1,498)	2:9:B:G:C4'	2:9:B:G:O5'	2:9:B:G:H5'	2:9:B:G:H5''	16	98.01
(1,488)	2:7:B:A:C4'	2:7:B:A:O5'	2:7:B:A:H5'	2:7:B:A:H5''	20	98.01
(1,478)	2:5:B:G:C4'	2:5:B:G:O5'	2:5:B:G:H5'	2:5:B:G:H5''	10	98.01
(1,433)	1:262:A:PRO:N	1:262:A:PRO:C	1:262:A:PRO:HA	1:262:A:PRO:CB	19	98.01
(1,488)	2:7:B:A:C4'	2:7:B:A:O5'	2:7:B:A:H5'	2:7:B:A:H5''	5	98.0
(1,483)	2:6:B:A:C4'	2:6:B:A:O5'	2:6:B:A:H5'	2:6:B:A:H5''	8	98.0
(1,433)	1:262:A:PRO:N	1:262:A:PRO:C	1:262:A:PRO:HA	1:262:A:PRO:CB	2	98.0
(1,431)	1:262:A:PRO:CB	1:262:A:PRO:CD	1:262:A:PRO:HG2	1:262:A:PRO:HG3	3	98.0
(1,382)	1:242:A:SER:CA	1:242:A:SER:OG	1:242:A:SER:HB2	1:242:A:SER:HB3	12	97.99
(1,503)	2:10:B:A:C4'	2:10:B:A:O5'	2:10:B:A:H5'	2:10:B:A:H5''	2	97.98
(1,488)	2:7:B:A:C4'	2:7:B:A:O5'	2:7:B:A:H5'	2:7:B:A:H5''	9	97.98
(1,488)	2:7:B:A:C4'	2:7:B:A:O5'	2:7:B:A:H5'	2:7:B:A:H5''	18	97.97
(1,435)	1:263:A:LYS:CB	1:263:A:LYS:CD	1:263:A:LYS:HG2	1:263:A:LYS:HG3	4	97.97
(1,503)	2:10:B:A:C4'	2:10:B:A:O5'	2:10:B:A:H5'	2:10:B:A:H5''	14	97.96
(1,488)	2:7:B:A:C4'	2:7:B:A:O5'	2:7:B:A:H5'	2:7:B:A:H5''	4	97.96
(1,432)	1:262:A:PRO:CG	1:262:A:PRO:N	1:262:A:PRO:HD2	1:262:A:PRO:HD3	20	97.96
(1,422)	1:258:A:SER:CA	1:258:A:SER:OG	1:258:A:SER:HB2	1:258:A:SER:HB3	16	97.95
(1,443)	1:266:A:SER:CA	1:266:A:SER:OG	1:266:A:SER:HB2	1:266:A:SER:HB3	2	97.94
(1,498)	2:9:B:G:C4'	2:9:B:G:O5'	2:9:B:G:H5'	2:9:B:G:H5''	6	97.93
(1,488)	2:7:B:A:C4'	2:7:B:A:O5'	2:7:B:A:H5'	2:7:B:A:H5''	2	97.93
(1,443)	1:266:A:SER:CA	1:266:A:SER:OG	1:266:A:SER:HB2	1:266:A:SER:HB3	19	97.93
(1,430)	1:262:A:PRO:CA	1:262:A:PRO:CG	1:262:A:PRO:HB2	1:262:A:PRO:HB3	17	97.93
(1,422)	1:258:A:SER:CA	1:258:A:SER:OG	1:258:A:SER:HB2	1:258:A:SER:HB3	17	97.93
(1,477)	2:5:B:G:C3'	2:5:B:G:C5'	2:5:B:G:O4'	2:5:B:G:H4'	3	97.92
(1,382)	1:242:A:SER:CA	1:242:A:SER:OG	1:242:A:SER:HB2	1:242:A:SER:HB3	19	97.92
(1,432)	1:262:A:PRO:CG	1:262:A:PRO:N	1:262:A:PRO:HD2	1:262:A:PRO:HD3	8	97.91
(1,513)	2:12:B:U:C4'	2:12:B:U:O5'	2:12:B:U:H5'	2:12:B:U:H5''	20	97.89
(1,422)	1:258:A:SER:CA	1:258:A:SER:OG	1:258:A:SER:HB2	1:258:A:SER:HB3	5	97.89
(1,488)	2:7:B:A:C4'	2:7:B:A:O5'	2:7:B:A:H5'	2:7:B:A:H5''	17	97.87
(1,413)	1:254:A:SER:CA	1:254:A:SER:OG	1:254:A:SER:HB2	1:254:A:SER:HB3	18	97.87
(1,498)	2:9:B:G:C4'	2:9:B:G:O5'	2:9:B:G:H5'	2:9:B:G:H5''	15	97.86
(1,431)	1:262:A:PRO:CB	1:262:A:PRO:CD	1:262:A:PRO:HG2	1:262:A:PRO:HG3	6	97.86
(1,413)	1:254:A:SER:CA	1:254:A:SER:OG	1:254:A:SER:HB2	1:254:A:SER:HB3	3	97.85
(1,422)	1:258:A:SER:CA	1:258:A:SER:OG	1:258:A:SER:HB2	1:258:A:SER:HB3	15	97.84
(1,503)	2:10:B:A:C4'	2:10:B:A:O5'	2:10:B:A:H5'	2:10:B:A:H5''	3	97.83
(1,433)	1:262:A:PRO:N	1:262:A:PRO:C	1:262:A:PRO:HA	1:262:A:PRO:CB	18	97.82
(1,432)	1:262:A:PRO:CG	1:262:A:PRO:N	1:262:A:PRO:HD2	1:262:A:PRO:HD3	3	97.82
(1,498)	2:9:B:G:C4'	2:9:B:G:O5'	2:9:B:G:H5'	2:9:B:G:H5''	10	97.81
(1,478)	2:5:B:G:C4'	2:5:B:G:O5'	2:5:B:G:H5'	2:5:B:G:H5''	8	97.78
(1,478)	2:5:B:G:C4'	2:5:B:G:O5'	2:5:B:G:H5'	2:5:B:G:H5''	13	97.78
(1,433)	1:262:A:PRO:N	1:262:A:PRO:C	1:262:A:PRO:HA	1:262:A:PRO:CB	15	97.78
(1,382)	1:242:A:SER:CA	1:242:A:SER:OG	1:242:A:SER:HB2	1:242:A:SER:HB3	15	97.78

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,498)	2:9:B:G:C4'	2:9:B:G:O5'	2:9:B:G:H5'	2:9:B:G:H5''	13	97.77
(1,483)	2:6:B:A:C4'	2:6:B:A:O5'	2:6:B:A:H5'	2:6:B:A:H5''	13	97.77
(1,435)	1:263:A:LYS:CB	1:263:A:LYS:CD	1:263:A:LYS:HG2	1:263:A:LYS:HG3	12	97.75
(1,432)	1:262:A:PRO:CG	1:262:A:PRO:N	1:262:A:PRO:HD2	1:262:A:PRO:HD3	6	97.75
(1,413)	1:254:A:SER:CA	1:254:A:SER:OG	1:254:A:SER:HB2	1:254:A:SER:HB3	16	97.75
(1,498)	2:9:B:G:C4'	2:9:B:G:O5'	2:9:B:G:H5'	2:9:B:G:H5''	11	97.74
(1,498)	2:9:B:G:C4'	2:9:B:G:O5'	2:9:B:G:H5'	2:9:B:G:H5''	20	97.74
(1,432)	1:262:A:PRO:CG	1:262:A:PRO:N	1:262:A:PRO:HD2	1:262:A:PRO:HD3	5	97.73
(1,432)	1:262:A:PRO:CG	1:262:A:PRO:N	1:262:A:PRO:HD2	1:262:A:PRO:HD3	12	97.73
(1,435)	1:263:A:LYS:CB	1:263:A:LYS:CD	1:263:A:LYS:HG2	1:263:A:LYS:HG3	6	97.72
(1,433)	1:262:A:PRO:N	1:262:A:PRO:C	1:262:A:PRO:HA	1:262:A:PRO:CB	16	97.72
(1,435)	1:263:A:LYS:CB	1:263:A:LYS:CD	1:263:A:LYS:HG2	1:263:A:LYS:HG3	5	97.7
(1,433)	1:262:A:PRO:N	1:262:A:PRO:C	1:262:A:PRO:HA	1:262:A:PRO:CB	14	97.7
(1,498)	2:9:B:G:C4'	2:9:B:G:O5'	2:9:B:G:H5'	2:9:B:G:H5''	7	97.69
(1,433)	1:262:A:PRO:N	1:262:A:PRO:C	1:262:A:PRO:HA	1:262:A:PRO:CB	8	97.69
(1,483)	2:6:B:A:C4'	2:6:B:A:O5'	2:6:B:A:H5'	2:6:B:A:H5''	6	97.65
(1,433)	1:262:A:PRO:N	1:262:A:PRO:C	1:262:A:PRO:HA	1:262:A:PRO:CB	5	97.65
(1,433)	1:262:A:PRO:N	1:262:A:PRO:C	1:262:A:PRO:HA	1:262:A:PRO:CB	10	97.65
(1,413)	1:254:A:SER:CA	1:254:A:SER:OG	1:254:A:SER:HB2	1:254:A:SER:HB3	11	97.65
(1,432)	1:262:A:PRO:CG	1:262:A:PRO:N	1:262:A:PRO:HD2	1:262:A:PRO:HD3	11	97.64
(1,483)	2:6:B:A:C4'	2:6:B:A:O5'	2:6:B:A:H5'	2:6:B:A:H5''	7	97.63
(1,433)	1:262:A:PRO:N	1:262:A:PRO:C	1:262:A:PRO:HA	1:262:A:PRO:CB	3	97.62
(1,432)	1:262:A:PRO:CG	1:262:A:PRO:N	1:262:A:PRO:HD2	1:262:A:PRO:HD3	14	97.62
(1,488)	2:7:B:A:C4'	2:7:B:A:O5'	2:7:B:A:H5'	2:7:B:A:H5''	1	97.61
(1,413)	1:254:A:SER:CA	1:254:A:SER:OG	1:254:A:SER:HB2	1:254:A:SER:HB3	13	97.6
(1,478)	2:5:B:G:C4'	2:5:B:G:O5'	2:5:B:G:H5'	2:5:B:G:H5''	16	97.59
(1,432)	1:262:A:PRO:CG	1:262:A:PRO:N	1:262:A:PRO:HD2	1:262:A:PRO:HD3	2	97.59
(1,488)	2:7:B:A:C4'	2:7:B:A:O5'	2:7:B:A:H5'	2:7:B:A:H5''	19	97.58
(1,413)	1:254:A:SER:CA	1:254:A:SER:OG	1:254:A:SER:HB2	1:254:A:SER:HB3	9	97.57
(1,432)	1:262:A:PRO:CG	1:262:A:PRO:N	1:262:A:PRO:HD2	1:262:A:PRO:HD3	13	97.56
(1,432)	1:262:A:PRO:CG	1:262:A:PRO:N	1:262:A:PRO:HD2	1:262:A:PRO:HD3	18	97.55
(1,432)	1:262:A:PRO:CG	1:262:A:PRO:N	1:262:A:PRO:HD2	1:262:A:PRO:HD3	1	97.54
(1,432)	1:262:A:PRO:CG	1:262:A:PRO:N	1:262:A:PRO:HD2	1:262:A:PRO:HD3	9	97.54
(1,498)	2:9:B:G:C4'	2:9:B:G:O5'	2:9:B:G:H5'	2:9:B:G:H5''	17	97.53
(1,483)	2:6:B:A:C4'	2:6:B:A:O5'	2:6:B:A:H5'	2:6:B:A:H5''	12	97.5
(1,433)	1:262:A:PRO:N	1:262:A:PRO:C	1:262:A:PRO:HA	1:262:A:PRO:CB	12	97.47
(1,478)	2:5:B:G:C4'	2:5:B:G:O5'	2:5:B:G:H5'	2:5:B:G:H5''	17	97.46
(1,432)	1:262:A:PRO:CG	1:262:A:PRO:N	1:262:A:PRO:HD2	1:262:A:PRO:HD3	4	97.45
(1,432)	1:262:A:PRO:CG	1:262:A:PRO:N	1:262:A:PRO:HD2	1:262:A:PRO:HD3	7	97.45
(1,478)	2:5:B:G:C4'	2:5:B:G:O5'	2:5:B:G:H5'	2:5:B:G:H5''	18	97.44
(1,493)	2:8:B:U:C4'	2:8:B:U:O5'	2:8:B:U:H5'	2:8:B:U:H5''	18	97.43
(1,498)	2:9:B:G:C4'	2:9:B:G:O5'	2:9:B:G:H5'	2:9:B:G:H5''	1	97.42
(1,433)	1:262:A:PRO:N	1:262:A:PRO:C	1:262:A:PRO:HA	1:262:A:PRO:CB	6	97.42
(1,432)	1:262:A:PRO:CG	1:262:A:PRO:N	1:262:A:PRO:HD2	1:262:A:PRO:HD3	17	97.41
(1,503)	2:10:B:A:C4'	2:10:B:A:O5'	2:10:B:A:H5'	2:10:B:A:H5''	8	97.39
(1,503)	2:10:B:A:C4'	2:10:B:A:O5'	2:10:B:A:H5'	2:10:B:A:H5''	17	97.39
(1,478)	2:5:B:G:C4'	2:5:B:G:O5'	2:5:B:G:H5'	2:5:B:G:H5''	19	97.35
(1,432)	1:262:A:PRO:CG	1:262:A:PRO:N	1:262:A:PRO:HD2	1:262:A:PRO:HD3	19	97.34
(1,433)	1:262:A:PRO:N	1:262:A:PRO:C	1:262:A:PRO:HA	1:262:A:PRO:CB	20	97.32
(1,478)	2:5:B:G:C4'	2:5:B:G:O5'	2:5:B:G:H5'	2:5:B:G:H5''	5	97.31
(1,503)	2:10:B:A:C4'	2:10:B:A:O5'	2:10:B:A:H5'	2:10:B:A:H5''	13	97.3

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,432)	1:262:A:PRO:CG	1:262:A:PRO:N	1:262:A:PRO:HD2	1:262:A:PRO:HD3	10	97.3
(1,478)	2:5:B:G:C4'	2:5:B:G:O5'	2:5:B:G:H5'	2:5:B:G:H5''	12	97.24
(1,478)	2:5:B:G:C4'	2:5:B:G:O5'	2:5:B:G:H5'	2:5:B:G:H5''	20	97.24
(1,431)	1:262:A:PRO:CB	1:262:A:PRO:CD	1:262:A:PRO:HG2	1:262:A:PRO:HG3	11	97.24
(1,483)	2:6:B:A:C4'	2:6:B:A:O5'	2:6:B:A:H5'	2:6:B:A:H5''	10	97.21
(1,431)	1:262:A:PRO:CB	1:262:A:PRO:CD	1:262:A:PRO:HG2	1:262:A:PRO:HG3	16	97.19
(1,478)	2:5:B:G:C4'	2:5:B:G:O5'	2:5:B:G:H5'	2:5:B:G:H5''	15	97.18
(1,432)	1:262:A:PRO:CG	1:262:A:PRO:N	1:262:A:PRO:HD2	1:262:A:PRO:HD3	15	97.16
(1,432)	1:262:A:PRO:CG	1:262:A:PRO:N	1:262:A:PRO:HD2	1:262:A:PRO:HD3	16	97.12
(1,431)	1:262:A:PRO:CB	1:262:A:PRO:CD	1:262:A:PRO:HG2	1:262:A:PRO:HG3	9	97.11
(1,503)	2:10:B:A:C4'	2:10:B:A:O5'	2:10:B:A:H5'	2:10:B:A:H5''	15	97.1
(1,431)	1:262:A:PRO:CB	1:262:A:PRO:CD	1:262:A:PRO:HG2	1:262:A:PRO:HG3	4	97.09
(1,431)	1:262:A:PRO:CB	1:262:A:PRO:CD	1:262:A:PRO:HG2	1:262:A:PRO:HG3	7	97.08
(1,493)	2:8:B:U:C4'	2:8:B:U:O5'	2:8:B:U:H5'	2:8:B:U:H5''	9	97.07
(1,430)	1:262:A:PRO:CA	1:262:A:PRO:CG	1:262:A:PRO:HB2	1:262:A:PRO:HB3	5	97.07
(1,478)	2:5:B:G:C4'	2:5:B:G:O5'	2:5:B:G:H5'	2:5:B:G:H5''	9	97.06
(1,431)	1:262:A:PRO:CB	1:262:A:PRO:CD	1:262:A:PRO:HG2	1:262:A:PRO:HG3	10	97.06
(1,431)	1:262:A:PRO:CB	1:262:A:PRO:CD	1:262:A:PRO:HG2	1:262:A:PRO:HG3	15	97.01
(1,430)	1:262:A:PRO:CA	1:262:A:PRO:CG	1:262:A:PRO:HB2	1:262:A:PRO:HB3	18	97.01
(1,430)	1:262:A:PRO:CA	1:262:A:PRO:CG	1:262:A:PRO:HB2	1:262:A:PRO:HB3	6	96.99
(1,430)	1:262:A:PRO:CA	1:262:A:PRO:CG	1:262:A:PRO:HB2	1:262:A:PRO:HB3	3	96.97
(1,431)	1:262:A:PRO:CB	1:262:A:PRO:CD	1:262:A:PRO:HG2	1:262:A:PRO:HG3	19	96.96
(1,381)	1:241:A:GLN:N	1:241:A:GLN:C	1:241:A:GLN:HA	1:241:A:GLN:CB	12	96.91
(1,381)	1:241:A:GLN:N	1:241:A:GLN:C	1:241:A:GLN:HA	1:241:A:GLN:CB	8	96.89
(1,381)	1:241:A:GLN:N	1:241:A:GLN:C	1:241:A:GLN:HA	1:241:A:GLN:CB	14	96.89
(1,478)	2:5:B:G:C4'	2:5:B:G:O5'	2:5:B:G:H5'	2:5:B:G:H5''	4	96.88
(1,431)	1:262:A:PRO:CB	1:262:A:PRO:CD	1:262:A:PRO:HG2	1:262:A:PRO:HG3	1	96.87
(1,431)	1:262:A:PRO:CB	1:262:A:PRO:CD	1:262:A:PRO:HG2	1:262:A:PRO:HG3	2	96.86
(1,431)	1:262:A:PRO:CB	1:262:A:PRO:CD	1:262:A:PRO:HG2	1:262:A:PRO:HG3	17	96.86
(1,430)	1:262:A:PRO:CA	1:262:A:PRO:CG	1:262:A:PRO:HB2	1:262:A:PRO:HB3	12	96.83
(1,478)	2:5:B:G:C4'	2:5:B:G:O5'	2:5:B:G:H5'	2:5:B:G:H5''	3	96.79
(1,431)	1:262:A:PRO:CB	1:262:A:PRO:CD	1:262:A:PRO:HG2	1:262:A:PRO:HG3	13	96.78
(1,430)	1:262:A:PRO:CA	1:262:A:PRO:CG	1:262:A:PRO:HB2	1:262:A:PRO:HB3	8	96.78
(1,381)	1:241:A:GLN:N	1:241:A:GLN:C	1:241:A:GLN:HA	1:241:A:GLN:CB	18	96.78
(1,478)	2:5:B:G:C4'	2:5:B:G:O5'	2:5:B:G:H5'	2:5:B:G:H5''	6	96.65
(1,381)	1:241:A:GLN:N	1:241:A:GLN:C	1:241:A:GLN:HA	1:241:A:GLN:CB	10	96.65
(1,388)	1:244:A:CYS:N	1:244:A:CYS:C	1:244:A:CYS:HA	1:244:A:CYS:CB	16	96.63
(1,378)	1:240:A:ALA:N	1:240:A:ALA:C	1:240:A:ALA:HA	1:240:A:ALA:CB	5	96.63
(1,381)	1:241:A:GLN:N	1:241:A:GLN:C	1:241:A:GLN:HA	1:241:A:GLN:CB	17	96.61
(1,381)	1:241:A:GLN:N	1:241:A:GLN:C	1:241:A:GLN:HA	1:241:A:GLN:CB	9	96.6
(1,381)	1:241:A:GLN:N	1:241:A:GLN:C	1:241:A:GLN:HA	1:241:A:GLN:CB	13	96.59
(1,355)	1:228:A:ALA:N	1:228:A:ALA:C	1:228:A:ALA:HA	1:228:A:ALA:CB	9	96.59
(1,388)	1:244:A:CYS:N	1:244:A:CYS:C	1:244:A:CYS:HA	1:244:A:CYS:CB	19	96.58
(1,381)	1:241:A:GLN:N	1:241:A:GLN:C	1:241:A:GLN:HA	1:241:A:GLN:CB	4	96.58
(1,355)	1:228:A:ALA:N	1:228:A:ALA:C	1:228:A:ALA:HA	1:228:A:ALA:CB	17	96.58
(1,355)	1:228:A:ALA:N	1:228:A:ALA:C	1:228:A:ALA:HA	1:228:A:ALA:CB	2	96.56
(1,388)	1:244:A:CYS:N	1:244:A:CYS:C	1:244:A:CYS:HA	1:244:A:CYS:CB	8	96.55
(1,388)	1:244:A:CYS:N	1:244:A:CYS:C	1:244:A:CYS:HA	1:244:A:CYS:CB	9	96.55
(1,378)	1:240:A:ALA:N	1:240:A:ALA:C	1:240:A:ALA:HA	1:240:A:ALA:CB	18	96.55
(1,378)	1:240:A:ALA:N	1:240:A:ALA:C	1:240:A:ALA:HA	1:240:A:ALA:CB	8	96.51
(1,388)	1:244:A:CYS:N	1:244:A:CYS:C	1:244:A:CYS:HA	1:244:A:CYS:CB	13	96.5

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,388)	1:244:A:CYS:N	1:244:A:CYS:C	1:244:A:CYS:HA	1:244:A:CYS:CB	11	96.48
(1,381)	1:241:A:GLN:N	1:241:A:GLN:C	1:241:A:GLN:HA	1:241:A:GLN:CB	15	96.47
(1,381)	1:241:A:GLN:N	1:241:A:GLN:C	1:241:A:GLN:HA	1:241:A:GLN:CB	19	96.47
(1,388)	1:244:A:CYS:N	1:244:A:CYS:C	1:244:A:CYS:HA	1:244:A:CYS:CB	15	96.45
(1,381)	1:241:A:GLN:N	1:241:A:GLN:C	1:241:A:GLN:HA	1:241:A:GLN:CB	16	96.44
(1,430)	1:262:A:PRO:CA	1:262:A:PRO:CG	1:262:A:PRO:HB2	1:262:A:PRO:HB3	14	96.43
(1,355)	1:228:A:ALA:N	1:228:A:ALA:C	1:228:A:ALA:HA	1:228:A:ALA:CB	5	96.43
(1,388)	1:244:A:CYS:N	1:244:A:CYS:C	1:244:A:CYS:HA	1:244:A:CYS:CB	14	96.42
(1,355)	1:228:A:ALA:N	1:228:A:ALA:C	1:228:A:ALA:HA	1:228:A:ALA:CB	10	96.41
(1,450)	1:268:A:ARG:N	1:268:A:ARG:C	1:268:A:ARG:HA	1:268:A:ARG:CB	8	96.39
(1,430)	1:262:A:PRO:CA	1:262:A:PRO:CG	1:262:A:PRO:HB2	1:262:A:PRO:HB3	20	96.39
(1,381)	1:241:A:GLN:N	1:241:A:GLN:C	1:241:A:GLN:HA	1:241:A:GLN:CB	1	96.39
(1,357)	1:229:A:PHE:N	1:229:A:PHE:C	1:229:A:PHE:HA	1:229:A:PHE:CB	12	96.39
(1,442)	1:265:A:ASN:N	1:265:A:ASN:C	1:265:A:ASN:HA	1:265:A:ASN:CB	8	96.37
(1,381)	1:241:A:GLN:N	1:241:A:GLN:C	1:241:A:GLN:HA	1:241:A:GLN:CB	7	96.37
(1,378)	1:240:A:ALA:N	1:240:A:ALA:C	1:240:A:ALA:HA	1:240:A:ALA:CB	14	96.37
(1,355)	1:228:A:ALA:N	1:228:A:ALA:C	1:228:A:ALA:HA	1:228:A:ALA:CB	18	96.37
(1,355)	1:228:A:ALA:N	1:228:A:ALA:C	1:228:A:ALA:HA	1:228:A:ALA:CB	19	96.33
(1,378)	1:240:A:ALA:N	1:240:A:ALA:C	1:240:A:ALA:HA	1:240:A:ALA:CB	12	96.29
(1,450)	1:268:A:ARG:N	1:268:A:ARG:C	1:268:A:ARG:HA	1:268:A:ARG:CB	4	96.28
(1,450)	1:268:A:ARG:N	1:268:A:ARG:C	1:268:A:ARG:HA	1:268:A:ARG:CB	16	96.28
(1,378)	1:240:A:ALA:N	1:240:A:ALA:C	1:240:A:ALA:HA	1:240:A:ALA:CB	10	96.26
(1,378)	1:240:A:ALA:N	1:240:A:ALA:C	1:240:A:ALA:HA	1:240:A:ALA:CB	19	96.26
(1,388)	1:244:A:CYS:N	1:244:A:CYS:C	1:244:A:CYS:HA	1:244:A:CYS:CB	17	96.25
(1,450)	1:268:A:ARG:N	1:268:A:ARG:C	1:268:A:ARG:HA	1:268:A:ARG:CB	18	96.24
(1,450)	1:268:A:ARG:N	1:268:A:ARG:C	1:268:A:ARG:HA	1:268:A:ARG:CB	20	96.24
(1,378)	1:240:A:ALA:N	1:240:A:ALA:C	1:240:A:ALA:HA	1:240:A:ALA:CB	1	96.24
(1,378)	1:240:A:ALA:N	1:240:A:ALA:C	1:240:A:ALA:HA	1:240:A:ALA:CB	16	96.23
(1,418)	1:256:A:HIS:N	1:256:A:HIS:C	1:256:A:HIS:HA	1:256:A:HIS:CB	11	96.22
(1,381)	1:241:A:GLN:N	1:241:A:GLN:C	1:241:A:GLN:HA	1:241:A:GLN:CB	5	96.22
(1,485)	2:7:B:A:C3'	2:7:B:A:C1'	2:7:B:A:H2'	2:7:B:A:O2'	14	96.21
(1,440)	1:264:A:HIS:N	1:264:A:HIS:C	1:264:A:HIS:HA	1:264:A:HIS:CB	8	96.21
(1,381)	1:241:A:GLN:N	1:241:A:GLN:C	1:241:A:GLN:HA	1:241:A:GLN:CB	6	96.21
(1,381)	1:241:A:GLN:N	1:241:A:GLN:C	1:241:A:GLN:HA	1:241:A:GLN:CB	11	96.21
(1,378)	1:240:A:ALA:N	1:240:A:ALA:C	1:240:A:ALA:HA	1:240:A:ALA:CB	4	96.2
(1,355)	1:228:A:ALA:N	1:228:A:ALA:C	1:228:A:ALA:HA	1:228:A:ALA:CB	11	96.2
(1,446)	1:267:A:ASN:N	1:267:A:ASN:C	1:267:A:ASN:HA	1:267:A:ASN:CB	13	96.19
(1,378)	1:240:A:ALA:N	1:240:A:ALA:C	1:240:A:ALA:HA	1:240:A:ALA:CB	11	96.14
(1,388)	1:244:A:CYS:N	1:244:A:CYS:C	1:244:A:CYS:HA	1:244:A:CYS:CB	4	96.13
(1,440)	1:264:A:HIS:N	1:264:A:HIS:C	1:264:A:HIS:HA	1:264:A:HIS:CB	3	96.12
(1,440)	1:264:A:HIS:N	1:264:A:HIS:C	1:264:A:HIS:HA	1:264:A:HIS:CB	20	96.12
(1,394)	1:247:A:ASP:N	1:247:A:ASP:C	1:247:A:ASP:HA	1:247:A:ASP:CB	2	96.09
(1,386)	1:243:A:LEU:N	1:243:A:LEU:C	1:243:A:LEU:HA	1:243:A:LEU:CB	11	96.09
(1,355)	1:228:A:ALA:N	1:228:A:ALA:C	1:228:A:ALA:HA	1:228:A:ALA:CB	6	96.08
(1,381)	1:241:A:GLN:N	1:241:A:GLN:C	1:241:A:GLN:HA	1:241:A:GLN:CB	20	96.07
(1,378)	1:240:A:ALA:N	1:240:A:ALA:C	1:240:A:ALA:HA	1:240:A:ALA:CB	2	96.07
(1,355)	1:228:A:ALA:N	1:228:A:ALA:C	1:228:A:ALA:HA	1:228:A:ALA:CB	1	96.06
(1,450)	1:268:A:ARG:N	1:268:A:ARG:C	1:268:A:ARG:HA	1:268:A:ARG:CB	13	96.04
(1,355)	1:228:A:ALA:N	1:228:A:ALA:C	1:228:A:ALA:HA	1:228:A:ALA:CB	4	96.04
(1,394)	1:247:A:ASP:N	1:247:A:ASP:C	1:247:A:ASP:HA	1:247:A:ASP:CB	19	96.02
(1,355)	1:228:A:ALA:N	1:228:A:ALA:C	1:228:A:ALA:HA	1:228:A:ALA:CB	16	96.01

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,475)	2:5:B:G:C3'	2:5:B:G:C1'	2:5:B:G:H2'	2:5:B:G:O2'	3	96.0
(1,378)	1:240:A:ALA:N	1:240:A:ALA:C	1:240:A:ALA:HA	1:240:A:ALA:CB	3	96.0
(1,378)	1:240:A:ALA:N	1:240:A:ALA:C	1:240:A:ALA:HA	1:240:A:ALA:CB	6	96.0
(1,350)	1:226:A:PHE:N	1:226:A:PHE:C	1:226:A:PHE:HA	1:226:A:PHE:CB	10	96.0
(1,350)	1:226:A:PHE:N	1:226:A:PHE:C	1:226:A:PHE:HA	1:226:A:PHE:CB	4	95.99
(1,450)	1:268:A:ARG:N	1:268:A:ARG:C	1:268:A:ARG:HA	1:268:A:ARG:CB	10	95.98
(1,440)	1:264:A:HIS:N	1:264:A:HIS:C	1:264:A:HIS:HA	1:264:A:HIS:CB	6	95.98
(1,475)	2:5:B:G:C3'	2:5:B:G:C1'	2:5:B:G:H2'	2:5:B:G:O2'	20	95.97
(1,440)	1:264:A:HIS:N	1:264:A:HIS:C	1:264:A:HIS:HA	1:264:A:HIS:CB	14	95.97
(1,446)	1:267:A:ASN:N	1:267:A:ASN:C	1:267:A:ASN:HA	1:267:A:ASN:CB	11	95.96
(1,442)	1:265:A:ASN:N	1:265:A:ASN:C	1:265:A:ASN:HA	1:265:A:ASN:CB	14	95.96
(1,440)	1:264:A:HIS:N	1:264:A:HIS:C	1:264:A:HIS:HA	1:264:A:HIS:CB	5	95.95
(1,442)	1:265:A:ASN:N	1:265:A:ASN:C	1:265:A:ASN:HA	1:265:A:ASN:CB	9	95.94
(1,442)	1:265:A:ASN:N	1:265:A:ASN:C	1:265:A:ASN:HA	1:265:A:ASN:CB	17	95.94
(1,378)	1:240:A:ALA:N	1:240:A:ALA:C	1:240:A:ALA:HA	1:240:A:ALA:CB	15	95.94
(1,418)	1:256:A:HIS:N	1:256:A:HIS:C	1:256:A:HIS:HA	1:256:A:HIS:CB	7	95.93
(1,386)	1:243:A:LEU:N	1:243:A:LEU:C	1:243:A:LEU:HA	1:243:A:LEU:CB	9	95.93
(1,440)	1:264:A:HIS:N	1:264:A:HIS:C	1:264:A:HIS:HA	1:264:A:HIS:CB	16	95.92
(1,397)	1:248:A:LEU:N	1:248:A:LEU:C	1:248:A:LEU:HA	1:248:A:LEU:CB	7	95.92
(1,450)	1:268:A:ARG:N	1:268:A:ARG:C	1:268:A:ARG:HA	1:268:A:ARG:CB	14	95.9
(1,397)	1:248:A:LEU:N	1:248:A:LEU:C	1:248:A:LEU:HA	1:248:A:LEU:CB	1	95.9
(1,440)	1:264:A:HIS:N	1:264:A:HIS:C	1:264:A:HIS:HA	1:264:A:HIS:CB	18	95.89
(1,438)	1:263:A:LYS:N	1:263:A:LYS:C	1:263:A:LYS:HA	1:263:A:LYS:CB	13	95.89
(1,418)	1:256:A:HIS:N	1:256:A:HIS:C	1:256:A:HIS:HA	1:256:A:HIS:CB	15	95.88
(1,446)	1:267:A:ASN:N	1:267:A:ASN:C	1:267:A:ASN:HA	1:267:A:ASN:CB	10	95.87
(1,442)	1:265:A:ASN:N	1:265:A:ASN:C	1:265:A:ASN:HA	1:265:A:ASN:CB	15	95.87
(1,440)	1:264:A:HIS:N	1:264:A:HIS:C	1:264:A:HIS:HA	1:264:A:HIS:CB	12	95.87
(1,357)	1:229:A:PHE:N	1:229:A:PHE:C	1:229:A:PHE:HA	1:229:A:PHE:CB	15	95.87
(1,425)	1:259:A:ASN:N	1:259:A:ASN:C	1:259:A:ASN:HA	1:259:A:ASN:CB	16	95.86
(1,378)	1:240:A:ALA:N	1:240:A:ALA:C	1:240:A:ALA:HA	1:240:A:ALA:CB	20	95.86
(1,350)	1:226:A:PHE:N	1:226:A:PHE:C	1:226:A:PHE:HA	1:226:A:PHE:CB	19	95.86
(1,386)	1:243:A:LEU:N	1:243:A:LEU:C	1:243:A:LEU:HA	1:243:A:LEU:CB	14	95.85
(1,386)	1:243:A:LEU:N	1:243:A:LEU:C	1:243:A:LEU:HA	1:243:A:LEU:CB	17	95.85
(1,381)	1:241:A:GLN:N	1:241:A:GLN:C	1:241:A:GLN:HA	1:241:A:GLN:CB	2	95.85
(1,446)	1:267:A:ASN:N	1:267:A:ASN:C	1:267:A:ASN:HA	1:267:A:ASN:CB	17	95.84
(1,425)	1:259:A:ASN:N	1:259:A:ASN:C	1:259:A:ASN:HA	1:259:A:ASN:CB	13	95.84
(1,442)	1:265:A:ASN:N	1:265:A:ASN:C	1:265:A:ASN:HA	1:265:A:ASN:CB	11	95.83
(1,355)	1:228:A:ALA:N	1:228:A:ALA:C	1:228:A:ALA:HA	1:228:A:ALA:CB	20	95.83
(1,350)	1:226:A:PHE:N	1:226:A:PHE:C	1:226:A:PHE:HA	1:226:A:PHE:CB	17	95.83
(1,450)	1:268:A:ARG:N	1:268:A:ARG:C	1:268:A:ARG:HA	1:268:A:ARG:CB	17	95.82
(1,350)	1:226:A:PHE:N	1:226:A:PHE:C	1:226:A:PHE:HA	1:226:A:PHE:CB	2	95.82
(1,350)	1:226:A:PHE:N	1:226:A:PHE:C	1:226:A:PHE:HA	1:226:A:PHE:CB	18	95.82
(1,442)	1:265:A:ASN:N	1:265:A:ASN:C	1:265:A:ASN:HA	1:265:A:ASN:CB	16	95.81
(1,440)	1:264:A:HIS:N	1:264:A:HIS:C	1:264:A:HIS:HA	1:264:A:HIS:CB	10	95.81
(1,367)	1:235:A:ALA:N	1:235:A:ALA:C	1:235:A:ALA:HA	1:235:A:ALA:CB	8	95.8
(1,350)	1:226:A:PHE:N	1:226:A:PHE:C	1:226:A:PHE:HA	1:226:A:PHE:CB	9	95.8
(1,355)	1:228:A:ALA:N	1:228:A:ALA:C	1:228:A:ALA:HA	1:228:A:ALA:CB	14	95.79
(1,425)	1:259:A:ASN:N	1:259:A:ASN:C	1:259:A:ASN:HA	1:259:A:ASN:CB	7	95.78
(1,425)	1:259:A:ASN:N	1:259:A:ASN:C	1:259:A:ASN:HA	1:259:A:ASN:CB	19	95.78
(1,397)	1:248:A:LEU:N	1:248:A:LEU:C	1:248:A:LEU:HA	1:248:A:LEU:CB	13	95.78
(1,438)	1:263:A:LYS:N	1:263:A:LYS:C	1:263:A:LYS:HA	1:263:A:LYS:CB	8	95.77

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,357)	1:229:A:PHE:N	1:229:A:PHE:C	1:229:A:PHE:HA	1:229:A:PHE:CB	7	95.77
(1,355)	1:228:A:ALA:N	1:228:A:ALA:C	1:228:A:ALA:HA	1:228:A:ALA:CB	7	95.77
(1,357)	1:229:A:PHE:N	1:229:A:PHE:C	1:229:A:PHE:HA	1:229:A:PHE:CB	13	95.76
(1,378)	1:240:A:ALA:N	1:240:A:ALA:C	1:240:A:ALA:HA	1:240:A:ALA:CB	7	95.75
(1,378)	1:240:A:ALA:N	1:240:A:ALA:C	1:240:A:ALA:HA	1:240:A:ALA:CB	17	95.75
(1,355)	1:228:A:ALA:N	1:228:A:ALA:C	1:228:A:ALA:HA	1:228:A:ALA:CB	3	95.75
(1,425)	1:259:A:ASN:N	1:259:A:ASN:C	1:259:A:ASN:HA	1:259:A:ASN:CB	8	95.74
(1,418)	1:256:A:HIS:N	1:256:A:HIS:C	1:256:A:HIS:HA	1:256:A:HIS:CB	6	95.74
(1,388)	1:244:A:CYS:N	1:244:A:CYS:C	1:244:A:CYS:HA	1:244:A:CYS:CB	7	95.74
(1,367)	1:235:A:ALA:N	1:235:A:ALA:C	1:235:A:ALA:HA	1:235:A:ALA:CB	19	95.74
(1,378)	1:240:A:ALA:N	1:240:A:ALA:C	1:240:A:ALA:HA	1:240:A:ALA:CB	13	95.73
(1,350)	1:226:A:PHE:N	1:226:A:PHE:C	1:226:A:PHE:HA	1:226:A:PHE:CB	16	95.73
(1,418)	1:256:A:HIS:N	1:256:A:HIS:C	1:256:A:HIS:HA	1:256:A:HIS:CB	9	95.72
(1,440)	1:264:A:HIS:N	1:264:A:HIS:C	1:264:A:HIS:HA	1:264:A:HIS:CB	13	95.71
(1,397)	1:248:A:LEU:N	1:248:A:LEU:C	1:248:A:LEU:HA	1:248:A:LEU:CB	20	95.71
(1,450)	1:268:A:ARG:N	1:268:A:ARG:C	1:268:A:ARG:HA	1:268:A:ARG:CB	2	95.7
(1,383)	1:242:A:SER:N	1:242:A:SER:C	1:242:A:SER:HA	1:242:A:SER:CB	9	95.7
(1,374)	1:238:A:GLN:N	1:238:A:GLN:C	1:238:A:GLN:HA	1:238:A:GLN:CB	6	95.7
(1,388)	1:244:A:CYS:N	1:244:A:CYS:C	1:244:A:CYS:HA	1:244:A:CYS:CB	3	95.69
(1,442)	1:265:A:ASN:N	1:265:A:ASN:C	1:265:A:ASN:HA	1:265:A:ASN:CB	20	95.68
(1,367)	1:235:A:ALA:N	1:235:A:ALA:C	1:235:A:ALA:HA	1:235:A:ALA:CB	16	95.68
(1,442)	1:265:A:ASN:N	1:265:A:ASN:C	1:265:A:ASN:HA	1:265:A:ASN:CB	5	95.67
(1,418)	1:256:A:HIS:N	1:256:A:HIS:C	1:256:A:HIS:HA	1:256:A:HIS:CB	8	95.67
(1,388)	1:244:A:CYS:N	1:244:A:CYS:C	1:244:A:CYS:HA	1:244:A:CYS:CB	1	95.67
(1,367)	1:235:A:ALA:N	1:235:A:ALA:C	1:235:A:ALA:HA	1:235:A:ALA:CB	6	95.67
(1,421)	1:257:A:ILE:N	1:257:A:ILE:C	1:257:A:ILE:HA	1:257:A:ILE:CB	19	95.66
(1,400)	1:249:A:ILE:N	1:249:A:ILE:C	1:249:A:ILE:HA	1:249:A:ILE:CB	9	95.66
(1,397)	1:248:A:LEU:N	1:248:A:LEU:C	1:248:A:LEU:HA	1:248:A:LEU:CB	17	95.66
(1,378)	1:240:A:ALA:N	1:240:A:ALA:C	1:240:A:ALA:HA	1:240:A:ALA:CB	9	95.66
(1,367)	1:235:A:ALA:N	1:235:A:ALA:C	1:235:A:ALA:HA	1:235:A:ALA:CB	4	95.66
(1,350)	1:226:A:PHE:N	1:226:A:PHE:C	1:226:A:PHE:HA	1:226:A:PHE:CB	11	95.66
(1,367)	1:235:A:ALA:N	1:235:A:ALA:C	1:235:A:ALA:HA	1:235:A:ALA:CB	9	95.65
(1,418)	1:256:A:HIS:N	1:256:A:HIS:C	1:256:A:HIS:HA	1:256:A:HIS:CB	1	95.64
(1,418)	1:256:A:HIS:N	1:256:A:HIS:C	1:256:A:HIS:HA	1:256:A:HIS:CB	19	95.64
(1,438)	1:263:A:LYS:N	1:263:A:LYS:C	1:263:A:LYS:HA	1:263:A:LYS:CB	11	95.63
(1,394)	1:247:A:ASP:N	1:247:A:ASP:C	1:247:A:ASP:HA	1:247:A:ASP:CB	4	95.63
(1,381)	1:241:A:GLN:N	1:241:A:GLN:C	1:241:A:GLN:HA	1:241:A:GLN:CB	3	95.63
(1,367)	1:235:A:ALA:N	1:235:A:ALA:C	1:235:A:ALA:HA	1:235:A:ALA:CB	1	95.63
(1,374)	1:238:A:GLN:N	1:238:A:GLN:C	1:238:A:GLN:HA	1:238:A:GLN:CB	20	95.62
(1,442)	1:265:A:ASN:N	1:265:A:ASN:C	1:265:A:ASN:HA	1:265:A:ASN:CB	18	95.61
(1,425)	1:259:A:ASN:N	1:259:A:ASN:C	1:259:A:ASN:HA	1:259:A:ASN:CB	12	95.61
(1,425)	1:259:A:ASN:N	1:259:A:ASN:C	1:259:A:ASN:HA	1:259:A:ASN:CB	18	95.61
(1,383)	1:242:A:SER:N	1:242:A:SER:C	1:242:A:SER:HA	1:242:A:SER:CB	5	95.61
(1,367)	1:235:A:ALA:N	1:235:A:ALA:C	1:235:A:ALA:HA	1:235:A:ALA:CB	17	95.61
(1,350)	1:226:A:PHE:N	1:226:A:PHE:C	1:226:A:PHE:HA	1:226:A:PHE:CB	5	95.61
(1,367)	1:235:A:ALA:N	1:235:A:ALA:C	1:235:A:ALA:HA	1:235:A:ALA:CB	13	95.6
(1,357)	1:229:A:PHE:N	1:229:A:PHE:C	1:229:A:PHE:HA	1:229:A:PHE:CB	6	95.6
(1,350)	1:226:A:PHE:N	1:226:A:PHE:C	1:226:A:PHE:HA	1:226:A:PHE:CB	8	95.6
(1,442)	1:265:A:ASN:N	1:265:A:ASN:C	1:265:A:ASN:HA	1:265:A:ASN:CB	6	95.59
(1,440)	1:264:A:HIS:N	1:264:A:HIS:C	1:264:A:HIS:HA	1:264:A:HIS:CB	7	95.59
(1,418)	1:256:A:HIS:N	1:256:A:HIS:C	1:256:A:HIS:HA	1:256:A:HIS:CB	2	95.59

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,374)	1:238:A:GLN:N	1:238:A:GLN:C	1:238:A:GLN:HA	1:238:A:GLN:CB	13	95.59
(1,374)	1:238:A:GLN:N	1:238:A:GLN:C	1:238:A:GLN:HA	1:238:A:GLN:CB	14	95.59
(1,442)	1:265:A:ASN:N	1:265:A:ASN:C	1:265:A:ASN:HA	1:265:A:ASN:CB	2	95.57
(1,440)	1:264:A:HIS:N	1:264:A:HIS:C	1:264:A:HIS:HA	1:264:A:HIS:CB	15	95.57
(1,425)	1:259:A:ASN:N	1:259:A:ASN:C	1:259:A:ASN:HA	1:259:A:ASN:CB	10	95.57
(1,397)	1:248:A:LEU:N	1:248:A:LEU:C	1:248:A:LEU:HA	1:248:A:LEU:CB	4	95.57
(1,397)	1:248:A:LEU:N	1:248:A:LEU:C	1:248:A:LEU:HA	1:248:A:LEU:CB	10	95.57
(1,374)	1:238:A:GLN:N	1:238:A:GLN:C	1:238:A:GLN:HA	1:238:A:GLN:CB	16	95.57
(1,371)	1:237:A:ASP:N	1:237:A:ASP:C	1:237:A:ASP:HA	1:237:A:ASP:CB	13	95.57
(1,371)	1:237:A:ASP:N	1:237:A:ASP:C	1:237:A:ASP:HA	1:237:A:ASP:CB	15	95.57
(1,450)	1:268:A:ARG:N	1:268:A:ARG:C	1:268:A:ARG:HA	1:268:A:ARG:CB	1	95.56
(1,425)	1:259:A:ASN:N	1:259:A:ASN:C	1:259:A:ASN:HA	1:259:A:ASN:CB	3	95.55
(1,425)	1:259:A:ASN:N	1:259:A:ASN:C	1:259:A:ASN:HA	1:259:A:ASN:CB	20	95.55
(1,355)	1:228:A:ALA:N	1:228:A:ALA:C	1:228:A:ALA:HA	1:228:A:ALA:CB	13	95.55
(1,418)	1:256:A:HIS:N	1:256:A:HIS:C	1:256:A:HIS:HA	1:256:A:HIS:CB	12	95.54
(1,442)	1:265:A:ASN:N	1:265:A:ASN:C	1:265:A:ASN:HA	1:265:A:ASN:CB	1	95.53
(1,397)	1:248:A:LEU:N	1:248:A:LEU:C	1:248:A:LEU:HA	1:248:A:LEU:CB	15	95.53
(1,388)	1:244:A:CYS:N	1:244:A:CYS:C	1:244:A:CYS:HA	1:244:A:CYS:CB	5	95.53
(1,374)	1:238:A:GLN:N	1:238:A:GLN:C	1:238:A:GLN:HA	1:238:A:GLN:CB	18	95.53
(1,367)	1:235:A:ALA:N	1:235:A:ALA:C	1:235:A:ALA:HA	1:235:A:ALA:CB	7	95.53
(1,366)	1:234:A:PHE:N	1:234:A:PHE:C	1:234:A:PHE:HA	1:234:A:PHE:CB	12	95.53
(1,350)	1:226:A:PHE:N	1:226:A:PHE:C	1:226:A:PHE:HA	1:226:A:PHE:CB	15	95.53
(1,438)	1:263:A:LYS:N	1:263:A:LYS:C	1:263:A:LYS:HA	1:263:A:LYS:CB	18	95.52
(1,374)	1:238:A:GLN:N	1:238:A:GLN:C	1:238:A:GLN:HA	1:238:A:GLN:CB	4	95.52
(1,418)	1:256:A:HIS:N	1:256:A:HIS:C	1:256:A:HIS:HA	1:256:A:HIS:CB	18	95.51
(1,355)	1:228:A:ALA:N	1:228:A:ALA:C	1:228:A:ALA:HA	1:228:A:ALA:CB	15	95.51
(1,374)	1:238:A:GLN:N	1:238:A:GLN:C	1:238:A:GLN:HA	1:238:A:GLN:CB	15	95.49
(1,371)	1:237:A:ASP:N	1:237:A:ASP:C	1:237:A:ASP:HA	1:237:A:ASP:CB	8	95.49
(1,366)	1:234:A:PHE:N	1:234:A:PHE:C	1:234:A:PHE:HA	1:234:A:PHE:CB	5	95.49
(1,383)	1:242:A:SER:N	1:242:A:SER:C	1:242:A:SER:HA	1:242:A:SER:CB	18	95.48
(1,366)	1:234:A:PHE:N	1:234:A:PHE:C	1:234:A:PHE:HA	1:234:A:PHE:CB	11	95.48
(1,425)	1:259:A:ASN:N	1:259:A:ASN:C	1:259:A:ASN:HA	1:259:A:ASN:CB	1	95.47
(1,418)	1:256:A:HIS:N	1:256:A:HIS:C	1:256:A:HIS:HA	1:256:A:HIS:CB	10	95.47
(1,392)	1:246:A:GLU:N	1:246:A:GLU:C	1:246:A:GLU:HA	1:246:A:GLU:CB	7	95.47
(1,374)	1:238:A:GLN:N	1:238:A:GLN:C	1:238:A:GLN:HA	1:238:A:GLN:CB	10	95.47
(1,367)	1:235:A:ALA:N	1:235:A:ALA:C	1:235:A:ALA:HA	1:235:A:ALA:CB	20	95.47
(1,414)	1:254:A:SER:N	1:254:A:SER:C	1:254:A:SER:HA	1:254:A:SER:CB	3	95.46
(1,383)	1:242:A:SER:N	1:242:A:SER:C	1:242:A:SER:HA	1:242:A:SER:CB	1	95.46
(1,383)	1:242:A:SER:N	1:242:A:SER:C	1:242:A:SER:HA	1:242:A:SER:CB	20	95.46
(1,425)	1:259:A:ASN:N	1:259:A:ASN:C	1:259:A:ASN:HA	1:259:A:ASN:CB	9	95.45
(1,397)	1:248:A:LEU:N	1:248:A:LEU:C	1:248:A:LEU:HA	1:248:A:LEU:CB	19	95.45
(1,392)	1:246:A:GLU:N	1:246:A:GLU:C	1:246:A:GLU:HA	1:246:A:GLU:CB	17	95.45
(1,392)	1:246:A:GLU:N	1:246:A:GLU:C	1:246:A:GLU:HA	1:246:A:GLU:CB	16	95.44
(1,367)	1:235:A:ALA:N	1:235:A:ALA:C	1:235:A:ALA:HA	1:235:A:ALA:CB	2	95.44
(1,366)	1:234:A:PHE:N	1:234:A:PHE:C	1:234:A:PHE:HA	1:234:A:PHE:CB	6	95.44
(1,355)	1:228:A:ALA:N	1:228:A:ALA:C	1:228:A:ALA:HA	1:228:A:ALA:CB	8	95.44
(1,392)	1:246:A:GLU:N	1:246:A:GLU:C	1:246:A:GLU:HA	1:246:A:GLU:CB	6	95.43
(1,383)	1:242:A:SER:N	1:242:A:SER:C	1:242:A:SER:HA	1:242:A:SER:CB	2	95.43
(1,367)	1:235:A:ALA:N	1:235:A:ALA:C	1:235:A:ALA:HA	1:235:A:ALA:CB	14	95.43
(1,367)	1:235:A:ALA:N	1:235:A:ALA:C	1:235:A:ALA:HA	1:235:A:ALA:CB	15	95.43
(1,366)	1:234:A:PHE:N	1:234:A:PHE:C	1:234:A:PHE:HA	1:234:A:PHE:CB	15	95.43

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,425)	1:259:A:ASN:N	1:259:A:ASN:C	1:259:A:ASN:HA	1:259:A:ASN:CB	4	95.42
(1,425)	1:259:A:ASN:N	1:259:A:ASN:C	1:259:A:ASN:HA	1:259:A:ASN:CB	11	95.42
(1,425)	1:259:A:ASN:N	1:259:A:ASN:C	1:259:A:ASN:HA	1:259:A:ASN:CB	14	95.42
(1,425)	1:259:A:ASN:N	1:259:A:ASN:C	1:259:A:ASN:HA	1:259:A:ASN:CB	17	95.42
(1,392)	1:246:A:GLU:N	1:246:A:GLU:C	1:246:A:GLU:HA	1:246:A:GLU:CB	5	95.42
(1,371)	1:237:A:ASP:N	1:237:A:ASP:C	1:237:A:ASP:HA	1:237:A:ASP:CB	16	95.42
(1,425)	1:259:A:ASN:N	1:259:A:ASN:C	1:259:A:ASN:HA	1:259:A:ASN:CB	5	95.41
(1,403)	1:250:A:ILE:N	1:250:A:ILE:C	1:250:A:ILE:HA	1:250:A:ILE:CB	17	95.41
(1,392)	1:246:A:GLU:N	1:246:A:GLU:C	1:246:A:GLU:HA	1:246:A:GLU:CB	11	95.41
(1,388)	1:244:A:CYS:N	1:244:A:CYS:C	1:244:A:CYS:HA	1:244:A:CYS:CB	20	95.41
(1,386)	1:243:A:LEU:N	1:243:A:LEU:C	1:243:A:LEU:HA	1:243:A:LEU:CB	1	95.41
(1,386)	1:243:A:LEU:N	1:243:A:LEU:C	1:243:A:LEU:HA	1:243:A:LEU:CB	6	95.41
(1,366)	1:234:A:PHE:N	1:234:A:PHE:C	1:234:A:PHE:HA	1:234:A:PHE:CB	18	95.41
(1,442)	1:265:A:ASN:N	1:265:A:ASN:C	1:265:A:ASN:HA	1:265:A:ASN:CB	3	95.4
(1,442)	1:265:A:ASN:N	1:265:A:ASN:C	1:265:A:ASN:HA	1:265:A:ASN:CB	12	95.4
(1,440)	1:264:A:HIS:N	1:264:A:HIS:C	1:264:A:HIS:HA	1:264:A:HIS:CB	9	95.4
(1,440)	1:264:A:HIS:N	1:264:A:HIS:C	1:264:A:HIS:HA	1:264:A:HIS:CB	17	95.4
(1,386)	1:243:A:LEU:N	1:243:A:LEU:C	1:243:A:LEU:HA	1:243:A:LEU:CB	16	95.4
(1,450)	1:268:A:ARG:N	1:268:A:ARG:C	1:268:A:ARG:HA	1:268:A:ARG:CB	3	95.39
(1,374)	1:238:A:GLN:N	1:238:A:GLN:C	1:238:A:GLN:HA	1:238:A:GLN:CB	8	95.39
(1,371)	1:237:A:ASP:N	1:237:A:ASP:C	1:237:A:ASP:HA	1:237:A:ASP:CB	2	95.39
(1,367)	1:235:A:ALA:N	1:235:A:ALA:C	1:235:A:ALA:HA	1:235:A:ALA:CB	3	95.39
(1,366)	1:234:A:PHE:N	1:234:A:PHE:C	1:234:A:PHE:HA	1:234:A:PHE:CB	7	95.39
(1,366)	1:234:A:PHE:N	1:234:A:PHE:C	1:234:A:PHE:HA	1:234:A:PHE:CB	19	95.39
(1,453)	1:269:A:GLN:N	1:269:A:GLN:C	1:269:A:GLN:HA	1:269:A:GLN:CB	20	95.38
(1,446)	1:267:A:ASN:N	1:267:A:ASN:C	1:267:A:ASN:HA	1:267:A:ASN:CB	16	95.38
(1,440)	1:264:A:HIS:N	1:264:A:HIS:C	1:264:A:HIS:HA	1:264:A:HIS:CB	2	95.38
(1,358)	1:230:A:ALA:N	1:230:A:ALA:C	1:230:A:ALA:HA	1:230:A:ALA:CB	13	95.38
(1,367)	1:235:A:ALA:N	1:235:A:ALA:C	1:235:A:ALA:HA	1:235:A:ALA:CB	18	95.37
(1,366)	1:234:A:PHE:N	1:234:A:PHE:C	1:234:A:PHE:HA	1:234:A:PHE:CB	14	95.37
(1,450)	1:268:A:ARG:N	1:268:A:ARG:C	1:268:A:ARG:HA	1:268:A:ARG:CB	7	95.36
(1,394)	1:247:A:ASP:N	1:247:A:ASP:C	1:247:A:ASP:HA	1:247:A:ASP:CB	20	95.36
(1,392)	1:246:A:GLU:N	1:246:A:GLU:C	1:246:A:GLU:HA	1:246:A:GLU:CB	1	95.36
(1,386)	1:243:A:LEU:N	1:243:A:LEU:C	1:243:A:LEU:HA	1:243:A:LEU:CB	13	95.36
(1,377)	1:239:A:ILE:N	1:239:A:ILE:C	1:239:A:ILE:HA	1:239:A:ILE:CB	18	95.36
(1,371)	1:237:A:ASP:N	1:237:A:ASP:C	1:237:A:ASP:HA	1:237:A:ASP:CB	19	95.36
(1,450)	1:268:A:ARG:N	1:268:A:ARG:C	1:268:A:ARG:HA	1:268:A:ARG:CB	19	95.35
(1,425)	1:259:A:ASN:N	1:259:A:ASN:C	1:259:A:ASN:HA	1:259:A:ASN:CB	6	95.35
(1,392)	1:246:A:GLU:N	1:246:A:GLU:C	1:246:A:GLU:HA	1:246:A:GLU:CB	13	95.35
(1,418)	1:256:A:HIS:N	1:256:A:HIS:C	1:256:A:HIS:HA	1:256:A:HIS:CB	4	95.34
(1,418)	1:256:A:HIS:N	1:256:A:HIS:C	1:256:A:HIS:HA	1:256:A:HIS:CB	20	95.34
(1,392)	1:246:A:GLU:N	1:246:A:GLU:C	1:246:A:GLU:HA	1:246:A:GLU:CB	14	95.34
(1,386)	1:243:A:LEU:N	1:243:A:LEU:C	1:243:A:LEU:HA	1:243:A:LEU:CB	2	95.34
(1,386)	1:243:A:LEU:N	1:243:A:LEU:C	1:243:A:LEU:HA	1:243:A:LEU:CB	8	95.34
(1,374)	1:238:A:GLN:N	1:238:A:GLN:C	1:238:A:GLN:HA	1:238:A:GLN:CB	9	95.34
(1,374)	1:238:A:GLN:N	1:238:A:GLN:C	1:238:A:GLN:HA	1:238:A:GLN:CB	19	95.34
(1,453)	1:269:A:GLN:N	1:269:A:GLN:C	1:269:A:GLN:HA	1:269:A:GLN:CB	15	95.33
(1,438)	1:263:A:LYS:N	1:263:A:LYS:C	1:263:A:LYS:HA	1:263:A:LYS:CB	3	95.33
(1,383)	1:242:A:SER:N	1:242:A:SER:C	1:242:A:SER:HA	1:242:A:SER:CB	16	95.33
(1,371)	1:237:A:ASP:N	1:237:A:ASP:C	1:237:A:ASP:HA	1:237:A:ASP:CB	6	95.33
(1,371)	1:237:A:ASP:N	1:237:A:ASP:C	1:237:A:ASP:HA	1:237:A:ASP:CB	20	95.33

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,357)	1:229:A:PHE:N	1:229:A:PHE:C	1:229:A:PHE:HA	1:229:A:PHE:CB	3	95.33
(1,485)	2:7:B:A:C3'	2:7:B:A:C1'	2:7:B:A:H2'	2:7:B:A:O2'	8	95.32
(1,438)	1:263:A:LYS:N	1:263:A:LYS:C	1:263:A:LYS:HA	1:263:A:LYS:CB	5	95.32
(1,418)	1:256:A:HIS:N	1:256:A:HIS:C	1:256:A:HIS:HA	1:256:A:HIS:CB	16	95.32
(1,403)	1:250:A:ILE:N	1:250:A:ILE:C	1:250:A:ILE:HA	1:250:A:ILE:CB	11	95.32
(1,377)	1:239:A:ILE:N	1:239:A:ILE:C	1:239:A:ILE:HA	1:239:A:ILE:CB	6	95.32
(1,377)	1:239:A:ILE:N	1:239:A:ILE:C	1:239:A:ILE:HA	1:239:A:ILE:CB	10	95.32
(1,367)	1:235:A:ALA:N	1:235:A:ALA:C	1:235:A:ALA:HA	1:235:A:ALA:CB	12	95.32
(1,366)	1:234:A:PHE:N	1:234:A:PHE:C	1:234:A:PHE:HA	1:234:A:PHE:CB	1	95.32
(1,364)	1:233:A:THR:N	1:233:A:THR:C	1:233:A:THR:HA	1:233:A:THR:CB	16	95.32
(1,350)	1:226:A:PHE:N	1:226:A:PHE:C	1:226:A:PHE:HA	1:226:A:PHE:CB	7	95.32
(1,444)	1:266:A:SER:N	1:266:A:SER:C	1:266:A:SER:HA	1:266:A:SER:CB	4	95.31
(1,438)	1:263:A:LYS:N	1:263:A:LYS:C	1:263:A:LYS:HA	1:263:A:LYS:CB	14	95.31
(1,374)	1:238:A:GLN:N	1:238:A:GLN:C	1:238:A:GLN:HA	1:238:A:GLN:CB	1	95.31
(1,367)	1:235:A:ALA:N	1:235:A:ALA:C	1:235:A:ALA:HA	1:235:A:ALA:CB	10	95.31
(1,366)	1:234:A:PHE:N	1:234:A:PHE:C	1:234:A:PHE:HA	1:234:A:PHE:CB	3	95.31
(1,366)	1:234:A:PHE:N	1:234:A:PHE:C	1:234:A:PHE:HA	1:234:A:PHE:CB	9	95.31
(1,358)	1:230:A:ALA:N	1:230:A:ALA:C	1:230:A:ALA:HA	1:230:A:ALA:CB	10	95.31
(1,355)	1:228:A:ALA:N	1:228:A:ALA:C	1:228:A:ALA:HA	1:228:A:ALA:CB	12	95.31
(1,438)	1:263:A:LYS:N	1:263:A:LYS:C	1:263:A:LYS:HA	1:263:A:LYS:CB	6	95.3
(1,397)	1:248:A:LEU:N	1:248:A:LEU:C	1:248:A:LEU:HA	1:248:A:LEU:CB	8	95.3
(1,386)	1:243:A:LEU:N	1:243:A:LEU:C	1:243:A:LEU:HA	1:243:A:LEU:CB	7	95.3
(1,371)	1:237:A:ASP:N	1:237:A:ASP:C	1:237:A:ASP:HA	1:237:A:ASP:CB	4	95.3
(1,371)	1:237:A:ASP:N	1:237:A:ASP:C	1:237:A:ASP:HA	1:237:A:ASP:CB	14	95.3
(1,453)	1:269:A:GLN:N	1:269:A:GLN:C	1:269:A:GLN:HA	1:269:A:GLN:CB	2	95.29
(1,392)	1:246:A:GLU:N	1:246:A:GLU:C	1:246:A:GLU:HA	1:246:A:GLU:CB	8	95.29
(1,388)	1:244:A:CYS:N	1:244:A:CYS:C	1:244:A:CYS:HA	1:244:A:CYS:CB	10	95.29
(1,386)	1:243:A:LEU:N	1:243:A:LEU:C	1:243:A:LEU:HA	1:243:A:LEU:CB	4	95.29
(1,350)	1:226:A:PHE:N	1:226:A:PHE:C	1:226:A:PHE:HA	1:226:A:PHE:CB	13	95.29
(1,446)	1:267:A:ASN:N	1:267:A:ASN:C	1:267:A:ASN:HA	1:267:A:ASN:CB	19	95.28
(1,444)	1:266:A:SER:N	1:266:A:SER:C	1:266:A:SER:HA	1:266:A:SER:CB	3	95.28
(1,371)	1:237:A:ASP:N	1:237:A:ASP:C	1:237:A:ASP:HA	1:237:A:ASP:CB	18	95.28
(1,354)	1:227:A:ARG:N	1:227:A:ARG:C	1:227:A:ARG:HA	1:227:A:ARG:CB	9	95.28
(1,350)	1:226:A:PHE:N	1:226:A:PHE:C	1:226:A:PHE:HA	1:226:A:PHE:CB	1	95.28
(1,397)	1:248:A:LEU:N	1:248:A:LEU:C	1:248:A:LEU:HA	1:248:A:LEU:CB	16	95.27
(1,392)	1:246:A:GLU:N	1:246:A:GLU:C	1:246:A:GLU:HA	1:246:A:GLU:CB	15	95.27
(1,392)	1:246:A:GLU:N	1:246:A:GLU:C	1:246:A:GLU:HA	1:246:A:GLU:CB	18	95.27
(1,374)	1:238:A:GLN:N	1:238:A:GLN:C	1:238:A:GLN:HA	1:238:A:GLN:CB	17	95.27
(1,366)	1:234:A:PHE:N	1:234:A:PHE:C	1:234:A:PHE:HA	1:234:A:PHE:CB	4	95.27
(1,366)	1:234:A:PHE:N	1:234:A:PHE:C	1:234:A:PHE:HA	1:234:A:PHE:CB	10	95.27
(1,450)	1:268:A:ARG:N	1:268:A:ARG:C	1:268:A:ARG:HA	1:268:A:ARG:CB	12	95.26
(1,403)	1:250:A:ILE:N	1:250:A:ILE:C	1:250:A:ILE:HA	1:250:A:ILE:CB	5	95.26
(1,394)	1:247:A:ASP:N	1:247:A:ASP:C	1:247:A:ASP:HA	1:247:A:ASP:CB	8	95.26
(1,377)	1:239:A:ILE:N	1:239:A:ILE:C	1:239:A:ILE:HA	1:239:A:ILE:CB	3	95.26
(1,366)	1:234:A:PHE:N	1:234:A:PHE:C	1:234:A:PHE:HA	1:234:A:PHE:CB	2	95.26
(1,392)	1:246:A:GLU:N	1:246:A:GLU:C	1:246:A:GLU:HA	1:246:A:GLU:CB	12	95.25
(1,366)	1:234:A:PHE:N	1:234:A:PHE:C	1:234:A:PHE:HA	1:234:A:PHE:CB	8	95.25
(1,366)	1:234:A:PHE:N	1:234:A:PHE:C	1:234:A:PHE:HA	1:234:A:PHE:CB	16	95.25
(1,364)	1:233:A:THR:N	1:233:A:THR:C	1:233:A:THR:HA	1:233:A:THR:CB	14	95.25
(1,357)	1:229:A:PHE:N	1:229:A:PHE:C	1:229:A:PHE:HA	1:229:A:PHE:CB	20	95.25
(1,350)	1:226:A:PHE:N	1:226:A:PHE:C	1:226:A:PHE:HA	1:226:A:PHE:CB	14	95.25

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,453)	1:269:A:GLN:N	1:269:A:GLN:C	1:269:A:GLN:HA	1:269:A:GLN:CB	16	95.24
(1,418)	1:256:A:HIS:N	1:256:A:HIS:C	1:256:A:HIS:HA	1:256:A:HIS:CB	5	95.24
(1,397)	1:248:A:LEU:N	1:248:A:LEU:C	1:248:A:LEU:HA	1:248:A:LEU:CB	11	95.24
(1,374)	1:238:A:GLN:N	1:238:A:GLN:C	1:238:A:GLN:HA	1:238:A:GLN:CB	7	95.24
(1,350)	1:226:A:PHE:N	1:226:A:PHE:C	1:226:A:PHE:HA	1:226:A:PHE:CB	6	95.24
(1,450)	1:268:A:ARG:N	1:268:A:ARG:C	1:268:A:ARG:HA	1:268:A:ARG:CB	5	95.23
(1,438)	1:263:A:LYS:N	1:263:A:LYS:C	1:263:A:LYS:HA	1:263:A:LYS:CB	16	95.23
(1,374)	1:238:A:GLN:N	1:238:A:GLN:C	1:238:A:GLN:HA	1:238:A:GLN:CB	3	95.23
(1,354)	1:227:A:ARG:N	1:227:A:ARG:C	1:227:A:ARG:HA	1:227:A:ARG:CB	16	95.23
(1,446)	1:267:A:ASN:N	1:267:A:ASN:C	1:267:A:ASN:HA	1:267:A:ASN:CB	5	95.22
(1,440)	1:264:A:HIS:N	1:264:A:HIS:C	1:264:A:HIS:HA	1:264:A:HIS:CB	19	95.21
(1,438)	1:263:A:LYS:N	1:263:A:LYS:C	1:263:A:LYS:HA	1:263:A:LYS:CB	10	95.21
(1,438)	1:263:A:LYS:N	1:263:A:LYS:C	1:263:A:LYS:HA	1:263:A:LYS:CB	12	95.21
(1,403)	1:250:A:ILE:N	1:250:A:ILE:C	1:250:A:ILE:HA	1:250:A:ILE:CB	18	95.21
(1,374)	1:238:A:GLN:N	1:238:A:GLN:C	1:238:A:GLN:HA	1:238:A:GLN:CB	11	95.21
(1,450)	1:268:A:ARG:N	1:268:A:ARG:C	1:268:A:ARG:HA	1:268:A:ARG:CB	11	95.2
(1,450)	1:268:A:ARG:N	1:268:A:ARG:C	1:268:A:ARG:HA	1:268:A:ARG:CB	15	95.2
(1,403)	1:250:A:ILE:N	1:250:A:ILE:C	1:250:A:ILE:HA	1:250:A:ILE:CB	7	95.2
(1,392)	1:246:A:GLU:N	1:246:A:GLU:C	1:246:A:GLU:HA	1:246:A:GLU:CB	9	95.2
(1,425)	1:259:A:ASN:N	1:259:A:ASN:C	1:259:A:ASN:HA	1:259:A:ASN:CB	15	95.19
(1,403)	1:250:A:ILE:N	1:250:A:ILE:C	1:250:A:ILE:HA	1:250:A:ILE:CB	1	95.19
(1,403)	1:250:A:ILE:N	1:250:A:ILE:C	1:250:A:ILE:HA	1:250:A:ILE:CB	12	95.19
(1,371)	1:237:A:ASP:N	1:237:A:ASP:C	1:237:A:ASP:HA	1:237:A:ASP:CB	5	95.19
(1,367)	1:235:A:ALA:N	1:235:A:ALA:C	1:235:A:ALA:HA	1:235:A:ALA:CB	5	95.19
(1,366)	1:234:A:PHE:N	1:234:A:PHE:C	1:234:A:PHE:HA	1:234:A:PHE:CB	20	95.19
(1,442)	1:265:A:ASN:N	1:265:A:ASN:C	1:265:A:ASN:HA	1:265:A:ASN:CB	13	95.18
(1,438)	1:263:A:LYS:N	1:263:A:LYS:C	1:263:A:LYS:HA	1:263:A:LYS:CB	9	95.18
(1,392)	1:246:A:GLU:N	1:246:A:GLU:C	1:246:A:GLU:HA	1:246:A:GLU:CB	10	95.18
(1,366)	1:234:A:PHE:N	1:234:A:PHE:C	1:234:A:PHE:HA	1:234:A:PHE:CB	17	95.18
(1,364)	1:233:A:THR:N	1:233:A:THR:C	1:233:A:THR:HA	1:233:A:THR:CB	13	95.18
(1,446)	1:267:A:ASN:N	1:267:A:ASN:C	1:267:A:ASN:HA	1:267:A:ASN:CB	18	95.17
(1,438)	1:263:A:LYS:N	1:263:A:LYS:C	1:263:A:LYS:HA	1:263:A:LYS:CB	20	95.17
(1,392)	1:246:A:GLU:N	1:246:A:GLU:C	1:246:A:GLU:HA	1:246:A:GLU:CB	2	95.17
(1,364)	1:233:A:THR:N	1:233:A:THR:C	1:233:A:THR:HA	1:233:A:THR:CB	18	95.17
(1,446)	1:267:A:ASN:N	1:267:A:ASN:C	1:267:A:ASN:HA	1:267:A:ASN:CB	7	95.16
(1,438)	1:263:A:LYS:N	1:263:A:LYS:C	1:263:A:LYS:HA	1:263:A:LYS:CB	4	95.16
(1,423)	1:258:A:SER:N	1:258:A:SER:C	1:258:A:SER:HA	1:258:A:SER:CB	7	95.16
(1,403)	1:250:A:ILE:N	1:250:A:ILE:C	1:250:A:ILE:HA	1:250:A:ILE:CB	10	95.16
(1,374)	1:238:A:GLN:N	1:238:A:GLN:C	1:238:A:GLN:HA	1:238:A:GLN:CB	5	95.16
(1,371)	1:237:A:ASP:N	1:237:A:ASP:C	1:237:A:ASP:HA	1:237:A:ASP:CB	10	95.16
(1,358)	1:230:A:ALA:N	1:230:A:ALA:C	1:230:A:ALA:HA	1:230:A:ALA:CB	15	95.16
(1,350)	1:226:A:PHE:N	1:226:A:PHE:C	1:226:A:PHE:HA	1:226:A:PHE:CB	3	95.16
(1,444)	1:266:A:SER:N	1:266:A:SER:C	1:266:A:SER:HA	1:266:A:SER:CB	5	95.15
(1,388)	1:244:A:CYS:N	1:244:A:CYS:C	1:244:A:CYS:HA	1:244:A:CYS:CB	12	95.15
(1,446)	1:267:A:ASN:N	1:267:A:ASN:C	1:267:A:ASN:HA	1:267:A:ASN:CB	9	95.14
(1,444)	1:266:A:SER:N	1:266:A:SER:C	1:266:A:SER:HA	1:266:A:SER:CB	12	95.14
(1,418)	1:256:A:HIS:N	1:256:A:HIS:C	1:256:A:HIS:HA	1:256:A:HIS:CB	17	95.14
(1,374)	1:238:A:GLN:N	1:238:A:GLN:C	1:238:A:GLN:HA	1:238:A:GLN:CB	12	95.14
(1,357)	1:229:A:PHE:N	1:229:A:PHE:C	1:229:A:PHE:HA	1:229:A:PHE:CB	8	95.14
(1,446)	1:267:A:ASN:N	1:267:A:ASN:C	1:267:A:ASN:HA	1:267:A:ASN:CB	12	95.13
(1,442)	1:265:A:ASN:N	1:265:A:ASN:C	1:265:A:ASN:HA	1:265:A:ASN:CB	10	95.13

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,438)	1:263:A:LYS:N	1:263:A:LYS:C	1:263:A:LYS:HA	1:263:A:LYS:CB	2	95.13
(1,371)	1:237:A:ASP:N	1:237:A:ASP:C	1:237:A:ASP:HA	1:237:A:ASP:CB	3	95.13
(1,371)	1:237:A:ASP:N	1:237:A:ASP:C	1:237:A:ASP:HA	1:237:A:ASP:CB	12	95.13
(1,444)	1:266:A:SER:N	1:266:A:SER:C	1:266:A:SER:HA	1:266:A:SER:CB	2	95.12
(1,444)	1:266:A:SER:N	1:266:A:SER:C	1:266:A:SER:HA	1:266:A:SER:CB	11	95.12
(1,442)	1:265:A:ASN:N	1:265:A:ASN:C	1:265:A:ASN:HA	1:265:A:ASN:CB	7	95.12
(1,392)	1:246:A:GLU:N	1:246:A:GLU:C	1:246:A:GLU:HA	1:246:A:GLU:CB	3	95.12
(1,386)	1:243:A:LEU:N	1:243:A:LEU:C	1:243:A:LEU:HA	1:243:A:LEU:CB	3	95.12
(1,369)	1:236:A:ASP:N	1:236:A:ASP:C	1:236:A:ASP:HA	1:236:A:ASP:CB	4	95.12
(1,369)	1:236:A:ASP:N	1:236:A:ASP:C	1:236:A:ASP:HA	1:236:A:ASP:CB	6	95.12
(1,367)	1:235:A:ALA:N	1:235:A:ALA:C	1:235:A:ALA:HA	1:235:A:ALA:CB	11	95.12
(1,358)	1:230:A:ALA:N	1:230:A:ALA:C	1:230:A:ALA:HA	1:230:A:ALA:CB	8	95.12
(1,446)	1:267:A:ASN:N	1:267:A:ASN:C	1:267:A:ASN:HA	1:267:A:ASN:CB	14	95.11
(1,438)	1:263:A:LYS:N	1:263:A:LYS:C	1:263:A:LYS:HA	1:263:A:LYS:CB	15	95.11
(1,426)	1:260:A:ALA:N	1:260:A:ALA:C	1:260:A:ALA:HA	1:260:A:ALA:CB	3	95.11
(1,426)	1:260:A:ALA:N	1:260:A:ALA:C	1:260:A:ALA:HA	1:260:A:ALA:CB	19	95.11
(1,386)	1:243:A:LEU:N	1:243:A:LEU:C	1:243:A:LEU:HA	1:243:A:LEU:CB	15	95.11
(1,354)	1:227:A:ARG:N	1:227:A:ARG:C	1:227:A:ARG:HA	1:227:A:ARG:CB	18	95.11
(1,444)	1:266:A:SER:N	1:266:A:SER:C	1:266:A:SER:HA	1:266:A:SER:CB	19	95.1
(1,403)	1:250:A:ILE:N	1:250:A:ILE:C	1:250:A:ILE:HA	1:250:A:ILE:CB	19	95.1
(1,392)	1:246:A:GLU:N	1:246:A:GLU:C	1:246:A:GLU:HA	1:246:A:GLU:CB	4	95.1
(1,386)	1:243:A:LEU:N	1:243:A:LEU:C	1:243:A:LEU:HA	1:243:A:LEU:CB	20	95.1
(1,371)	1:237:A:ASP:N	1:237:A:ASP:C	1:237:A:ASP:HA	1:237:A:ASP:CB	17	95.1
(1,358)	1:230:A:ALA:N	1:230:A:ALA:C	1:230:A:ALA:HA	1:230:A:ALA:CB	7	95.1
(1,369)	1:236:A:ASP:N	1:236:A:ASP:C	1:236:A:ASP:HA	1:236:A:ASP:CB	8	95.09
(1,369)	1:236:A:ASP:N	1:236:A:ASP:C	1:236:A:ASP:HA	1:236:A:ASP:CB	20	95.09
(1,366)	1:234:A:PHE:N	1:234:A:PHE:C	1:234:A:PHE:HA	1:234:A:PHE:CB	13	95.09
(1,364)	1:233:A:THR:N	1:233:A:THR:C	1:233:A:THR:HA	1:233:A:THR:CB	10	95.09
(1,364)	1:233:A:THR:N	1:233:A:THR:C	1:233:A:THR:HA	1:233:A:THR:CB	19	95.09
(1,357)	1:229:A:PHE:N	1:229:A:PHE:C	1:229:A:PHE:HA	1:229:A:PHE:CB	2	95.09
(1,357)	1:229:A:PHE:N	1:229:A:PHE:C	1:229:A:PHE:HA	1:229:A:PHE:CB	5	95.09
(1,423)	1:258:A:SER:N	1:258:A:SER:C	1:258:A:SER:HA	1:258:A:SER:CB	18	95.08
(1,388)	1:244:A:CYS:N	1:244:A:CYS:C	1:244:A:CYS:HA	1:244:A:CYS:CB	2	95.08
(1,388)	1:244:A:CYS:N	1:244:A:CYS:C	1:244:A:CYS:HA	1:244:A:CYS:CB	18	95.08
(1,374)	1:238:A:GLN:N	1:238:A:GLN:C	1:238:A:GLN:HA	1:238:A:GLN:CB	2	95.08
(1,358)	1:230:A:ALA:N	1:230:A:ALA:C	1:230:A:ALA:HA	1:230:A:ALA:CB	6	95.08
(1,354)	1:227:A:ARG:N	1:227:A:ARG:C	1:227:A:ARG:HA	1:227:A:ARG:CB	1	95.08
(1,453)	1:269:A:GLN:N	1:269:A:GLN:C	1:269:A:GLN:HA	1:269:A:GLN:CB	14	95.07
(1,446)	1:267:A:ASN:N	1:267:A:ASN:C	1:267:A:ASN:HA	1:267:A:ASN:CB	3	95.07
(1,357)	1:229:A:PHE:N	1:229:A:PHE:C	1:229:A:PHE:HA	1:229:A:PHE:CB	9	95.07
(1,357)	1:229:A:PHE:N	1:229:A:PHE:C	1:229:A:PHE:HA	1:229:A:PHE:CB	10	95.07
(1,444)	1:266:A:SER:N	1:266:A:SER:C	1:266:A:SER:HA	1:266:A:SER:CB	7	95.06
(1,426)	1:260:A:ALA:N	1:260:A:ALA:C	1:260:A:ALA:HA	1:260:A:ALA:CB	1	95.06
(1,418)	1:256:A:HIS:N	1:256:A:HIS:C	1:256:A:HIS:HA	1:256:A:HIS:CB	3	95.06
(1,400)	1:249:A:ILE:N	1:249:A:ILE:C	1:249:A:ILE:HA	1:249:A:ILE:CB	2	95.06
(1,394)	1:247:A:ASP:N	1:247:A:ASP:C	1:247:A:ASP:HA	1:247:A:ASP:CB	13	95.06
(1,392)	1:246:A:GLU:N	1:246:A:GLU:C	1:246:A:GLU:HA	1:246:A:GLU:CB	20	95.06
(1,426)	1:260:A:ALA:N	1:260:A:ALA:C	1:260:A:ALA:HA	1:260:A:ALA:CB	13	95.05
(1,377)	1:239:A:ILE:N	1:239:A:ILE:C	1:239:A:ILE:HA	1:239:A:ILE:CB	14	95.05
(1,354)	1:227:A:ARG:N	1:227:A:ARG:C	1:227:A:ARG:HA	1:227:A:ARG:CB	6	95.05
(1,354)	1:227:A:ARG:N	1:227:A:ARG:C	1:227:A:ARG:HA	1:227:A:ARG:CB	15	95.05

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,453)	1:269:A:GLN:N	1:269:A:GLN:C	1:269:A:GLN:HA	1:269:A:GLN:CB	4	95.04
(1,426)	1:260:A:ALA:N	1:260:A:ALA:C	1:260:A:ALA:HA	1:260:A:ALA:CB	16	95.04
(1,423)	1:258:A:SER:N	1:258:A:SER:C	1:258:A:SER:HA	1:258:A:SER:CB	13	95.04
(1,403)	1:250:A:ILE:N	1:250:A:ILE:C	1:250:A:ILE:HA	1:250:A:ILE:CB	4	95.04
(1,394)	1:247:A:ASP:N	1:247:A:ASP:C	1:247:A:ASP:HA	1:247:A:ASP:CB	1	95.04
(1,358)	1:230:A:ALA:N	1:230:A:ALA:C	1:230:A:ALA:HA	1:230:A:ALA:CB	19	95.04
(1,423)	1:258:A:SER:N	1:258:A:SER:C	1:258:A:SER:HA	1:258:A:SER:CB	11	95.03
(1,377)	1:239:A:ILE:N	1:239:A:ILE:C	1:239:A:ILE:HA	1:239:A:ILE:CB	12	95.03
(1,475)	2:5:B:G:C3'	2:5:B:G:C1'	2:5:B:G:H2'	2:5:B:G:O2'	5	95.02
(1,358)	1:230:A:ALA:N	1:230:A:ALA:C	1:230:A:ALA:HA	1:230:A:ALA:CB	1	95.02
(1,438)	1:263:A:LYS:N	1:263:A:LYS:C	1:263:A:LYS:HA	1:263:A:LYS:CB	19	95.01
(1,377)	1:239:A:ILE:N	1:239:A:ILE:C	1:239:A:ILE:HA	1:239:A:ILE:CB	2	95.01
(1,377)	1:239:A:ILE:N	1:239:A:ILE:C	1:239:A:ILE:HA	1:239:A:ILE:CB	13	95.01
(1,377)	1:239:A:ILE:N	1:239:A:ILE:C	1:239:A:ILE:HA	1:239:A:ILE:CB	15	95.01
(1,354)	1:227:A:ARG:N	1:227:A:ARG:C	1:227:A:ARG:HA	1:227:A:ARG:CB	11	95.01
(1,426)	1:260:A:ALA:N	1:260:A:ALA:C	1:260:A:ALA:HA	1:260:A:ALA:CB	20	95.0
(1,423)	1:258:A:SER:N	1:258:A:SER:C	1:258:A:SER:HA	1:258:A:SER:CB	10	95.0
(1,408)	1:251:A:LYS:N	1:251:A:LYS:C	1:251:A:LYS:HA	1:251:A:LYS:CB	4	95.0
(1,400)	1:249:A:ILE:N	1:249:A:ILE:C	1:249:A:ILE:HA	1:249:A:ILE:CB	1	95.0
(1,400)	1:249:A:ILE:N	1:249:A:ILE:C	1:249:A:ILE:HA	1:249:A:ILE:CB	7	95.0
(1,392)	1:246:A:GLU:N	1:246:A:GLU:C	1:246:A:GLU:HA	1:246:A:GLU:CB	19	95.0
(1,453)	1:269:A:GLN:N	1:269:A:GLN:C	1:269:A:GLN:HA	1:269:A:GLN:CB	3	94.99
(1,369)	1:236:A:ASP:N	1:236:A:ASP:C	1:236:A:ASP:HA	1:236:A:ASP:CB	3	94.99
(1,369)	1:236:A:ASP:N	1:236:A:ASP:C	1:236:A:ASP:HA	1:236:A:ASP:CB	19	94.99
(1,350)	1:226:A:PHE:N	1:226:A:PHE:C	1:226:A:PHE:HA	1:226:A:PHE:CB	20	94.99
(1,444)	1:266:A:SER:N	1:266:A:SER:C	1:266:A:SER:HA	1:266:A:SER:CB	18	94.98
(1,426)	1:260:A:ALA:N	1:260:A:ALA:C	1:260:A:ALA:HA	1:260:A:ALA:CB	10	94.98
(1,426)	1:260:A:ALA:N	1:260:A:ALA:C	1:260:A:ALA:HA	1:260:A:ALA:CB	15	94.98
(1,425)	1:259:A:ASN:N	1:259:A:ASN:C	1:259:A:ASN:HA	1:259:A:ASN:CB	2	94.98
(1,403)	1:250:A:ILE:N	1:250:A:ILE:C	1:250:A:ILE:HA	1:250:A:ILE:CB	6	94.98
(1,371)	1:237:A:ASP:N	1:237:A:ASP:C	1:237:A:ASP:HA	1:237:A:ASP:CB	9	94.98
(1,362)	1:232:A:VAL:N	1:232:A:VAL:C	1:232:A:VAL:HA	1:232:A:VAL:CB	14	94.98
(1,354)	1:227:A:ARG:N	1:227:A:ARG:C	1:227:A:ARG:HA	1:227:A:ARG:CB	5	94.98
(1,408)	1:251:A:LYS:N	1:251:A:LYS:C	1:251:A:LYS:HA	1:251:A:LYS:CB	6	94.97
(1,403)	1:250:A:ILE:N	1:250:A:ILE:C	1:250:A:ILE:HA	1:250:A:ILE:CB	9	94.97
(1,369)	1:236:A:ASP:N	1:236:A:ASP:C	1:236:A:ASP:HA	1:236:A:ASP:CB	18	94.97
(1,362)	1:232:A:VAL:N	1:232:A:VAL:C	1:232:A:VAL:HA	1:232:A:VAL:CB	5	94.97
(1,350)	1:226:A:PHE:N	1:226:A:PHE:C	1:226:A:PHE:HA	1:226:A:PHE:CB	12	94.97
(1,450)	1:268:A:ARG:N	1:268:A:ARG:C	1:268:A:ARG:HA	1:268:A:ARG:CB	6	94.96
(1,440)	1:264:A:HIS:N	1:264:A:HIS:C	1:264:A:HIS:HA	1:264:A:HIS:CB	4	94.96
(1,418)	1:256:A:HIS:N	1:256:A:HIS:C	1:256:A:HIS:HA	1:256:A:HIS:CB	14	94.96
(1,377)	1:239:A:ILE:N	1:239:A:ILE:C	1:239:A:ILE:HA	1:239:A:ILE:CB	8	94.96
(1,369)	1:236:A:ASP:N	1:236:A:ASP:C	1:236:A:ASP:HA	1:236:A:ASP:CB	2	94.96
(1,364)	1:233:A:THR:N	1:233:A:THR:C	1:233:A:THR:HA	1:233:A:THR:CB	5	94.96
(1,383)	1:242:A:SER:N	1:242:A:SER:C	1:242:A:SER:HA	1:242:A:SER:CB	7	94.95
(1,358)	1:230:A:ALA:N	1:230:A:ALA:C	1:230:A:ALA:HA	1:230:A:ALA:CB	14	94.95
(1,444)	1:266:A:SER:N	1:266:A:SER:C	1:266:A:SER:HA	1:266:A:SER:CB	1	94.94
(1,403)	1:250:A:ILE:N	1:250:A:ILE:C	1:250:A:ILE:HA	1:250:A:ILE:CB	20	94.94
(1,377)	1:239:A:ILE:N	1:239:A:ILE:C	1:239:A:ILE:HA	1:239:A:ILE:CB	19	94.94
(1,371)	1:237:A:ASP:N	1:237:A:ASP:C	1:237:A:ASP:HA	1:237:A:ASP:CB	7	94.94
(1,364)	1:233:A:THR:N	1:233:A:THR:C	1:233:A:THR:HA	1:233:A:THR:CB	12	94.94

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,357)	1:229:A:PHE:N	1:229:A:PHE:C	1:229:A:PHE:HA	1:229:A:PHE:CB	14	94.94
(1,475)	2:5:B:G:C3'	2:5:B:G:C1'	2:5:B:G:H2'	2:5:B:G:O2'	9	94.93
(1,444)	1:266:A:SER:N	1:266:A:SER:C	1:266:A:SER:HA	1:266:A:SER:CB	6	94.93
(1,444)	1:266:A:SER:N	1:266:A:SER:C	1:266:A:SER:HA	1:266:A:SER:CB	17	94.93
(1,403)	1:250:A:ILE:N	1:250:A:ILE:C	1:250:A:ILE:HA	1:250:A:ILE:CB	8	94.93
(1,383)	1:242:A:SER:N	1:242:A:SER:C	1:242:A:SER:HA	1:242:A:SER:CB	12	94.93
(1,440)	1:264:A:HIS:N	1:264:A:HIS:C	1:264:A:HIS:HA	1:264:A:HIS:CB	11	94.92
(1,403)	1:250:A:ILE:N	1:250:A:ILE:C	1:250:A:ILE:HA	1:250:A:ILE:CB	16	94.92
(1,400)	1:249:A:ILE:N	1:249:A:ILE:C	1:249:A:ILE:HA	1:249:A:ILE:CB	14	94.92
(1,377)	1:239:A:ILE:N	1:239:A:ILE:C	1:239:A:ILE:HA	1:239:A:ILE:CB	16	94.92
(1,371)	1:237:A:ASP:N	1:237:A:ASP:C	1:237:A:ASP:HA	1:237:A:ASP:CB	11	94.92
(1,364)	1:233:A:THR:N	1:233:A:THR:C	1:233:A:THR:HA	1:233:A:THR:CB	3	94.92
(1,364)	1:233:A:THR:N	1:233:A:THR:C	1:233:A:THR:HA	1:233:A:THR:CB	4	94.92
(1,358)	1:230:A:ALA:N	1:230:A:ALA:C	1:230:A:ALA:HA	1:230:A:ALA:CB	12	94.92
(1,357)	1:229:A:PHE:N	1:229:A:PHE:C	1:229:A:PHE:HA	1:229:A:PHE:CB	17	94.92
(1,453)	1:269:A:GLN:N	1:269:A:GLN:C	1:269:A:GLN:HA	1:269:A:GLN:CB	7	94.91
(1,446)	1:267:A:ASN:N	1:267:A:ASN:C	1:267:A:ASN:HA	1:267:A:ASN:CB	1	94.91
(1,446)	1:267:A:ASN:N	1:267:A:ASN:C	1:267:A:ASN:HA	1:267:A:ASN:CB	4	94.91
(1,369)	1:236:A:ASP:N	1:236:A:ASP:C	1:236:A:ASP:HA	1:236:A:ASP:CB	10	94.91
(1,423)	1:258:A:SER:N	1:258:A:SER:C	1:258:A:SER:HA	1:258:A:SER:CB	9	94.9
(1,421)	1:257:A:ILE:N	1:257:A:ILE:C	1:257:A:ILE:HA	1:257:A:ILE:CB	1	94.9
(1,408)	1:251:A:LYS:N	1:251:A:LYS:C	1:251:A:LYS:HA	1:251:A:LYS:CB	13	94.9
(1,408)	1:251:A:LYS:N	1:251:A:LYS:C	1:251:A:LYS:HA	1:251:A:LYS:CB	14	94.9
(1,364)	1:233:A:THR:N	1:233:A:THR:C	1:233:A:THR:HA	1:233:A:THR:CB	2	94.9
(1,360)	1:231:A:PHE:N	1:231:A:PHE:C	1:231:A:PHE:HA	1:231:A:PHE:CB	6	94.9
(1,453)	1:269:A:GLN:N	1:269:A:GLN:C	1:269:A:GLN:HA	1:269:A:GLN:CB	5	94.89
(1,453)	1:269:A:GLN:N	1:269:A:GLN:C	1:269:A:GLN:HA	1:269:A:GLN:CB	8	94.89
(1,423)	1:258:A:SER:N	1:258:A:SER:C	1:258:A:SER:HA	1:258:A:SER:CB	17	94.89
(1,394)	1:247:A:ASP:N	1:247:A:ASP:C	1:247:A:ASP:HA	1:247:A:ASP:CB	15	94.89
(1,386)	1:243:A:LEU:N	1:243:A:LEU:C	1:243:A:LEU:HA	1:243:A:LEU:CB	19	94.89
(1,362)	1:232:A:VAL:N	1:232:A:VAL:C	1:232:A:VAL:HA	1:232:A:VAL:CB	3	94.89
(1,362)	1:232:A:VAL:N	1:232:A:VAL:C	1:232:A:VAL:HA	1:232:A:VAL:CB	6	94.89
(1,357)	1:229:A:PHE:N	1:229:A:PHE:C	1:229:A:PHE:HA	1:229:A:PHE:CB	18	94.89
(1,446)	1:267:A:ASN:N	1:267:A:ASN:C	1:267:A:ASN:HA	1:267:A:ASN:CB	6	94.88
(1,397)	1:248:A:LEU:N	1:248:A:LEU:C	1:248:A:LEU:HA	1:248:A:LEU:CB	3	94.88
(1,394)	1:247:A:ASP:N	1:247:A:ASP:C	1:247:A:ASP:HA	1:247:A:ASP:CB	3	94.88
(1,364)	1:233:A:THR:N	1:233:A:THR:C	1:233:A:THR:HA	1:233:A:THR:CB	8	94.88
(1,444)	1:266:A:SER:N	1:266:A:SER:C	1:266:A:SER:HA	1:266:A:SER:CB	14	94.87
(1,421)	1:257:A:ILE:N	1:257:A:ILE:C	1:257:A:ILE:HA	1:257:A:ILE:CB	11	94.87
(1,408)	1:251:A:LYS:N	1:251:A:LYS:C	1:251:A:LYS:HA	1:251:A:LYS:CB	19	94.87
(1,383)	1:242:A:SER:N	1:242:A:SER:C	1:242:A:SER:HA	1:242:A:SER:CB	10	94.87
(1,383)	1:242:A:SER:N	1:242:A:SER:C	1:242:A:SER:HA	1:242:A:SER:CB	11	94.87
(1,383)	1:242:A:SER:N	1:242:A:SER:C	1:242:A:SER:HA	1:242:A:SER:CB	19	94.87
(1,369)	1:236:A:ASP:N	1:236:A:ASP:C	1:236:A:ASP:HA	1:236:A:ASP:CB	14	94.87
(1,364)	1:233:A:THR:N	1:233:A:THR:C	1:233:A:THR:HA	1:233:A:THR:CB	17	94.87
(1,358)	1:230:A:ALA:N	1:230:A:ALA:C	1:230:A:ALA:HA	1:230:A:ALA:CB	2	94.87
(1,358)	1:230:A:ALA:N	1:230:A:ALA:C	1:230:A:ALA:HA	1:230:A:ALA:CB	4	94.87
(1,453)	1:269:A:GLN:N	1:269:A:GLN:C	1:269:A:GLN:HA	1:269:A:GLN:CB	18	94.86
(1,444)	1:266:A:SER:N	1:266:A:SER:C	1:266:A:SER:HA	1:266:A:SER:CB	10	94.86
(1,394)	1:247:A:ASP:N	1:247:A:ASP:C	1:247:A:ASP:HA	1:247:A:ASP:CB	14	94.86
(1,394)	1:247:A:ASP:N	1:247:A:ASP:C	1:247:A:ASP:HA	1:247:A:ASP:CB	16	94.86

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,446)	1:267:A:ASN:N	1:267:A:ASN:C	1:267:A:ASN:HA	1:267:A:ASN:CB	15	94.85
(1,442)	1:265:A:ASN:N	1:265:A:ASN:C	1:265:A:ASN:HA	1:265:A:ASN:CB	4	94.85
(1,414)	1:254:A:SER:N	1:254:A:SER:C	1:254:A:SER:HA	1:254:A:SER:CB	1	94.85
(1,377)	1:239:A:ILE:N	1:239:A:ILE:C	1:239:A:ILE:HA	1:239:A:ILE:CB	5	94.85
(1,453)	1:269:A:GLN:N	1:269:A:GLN:C	1:269:A:GLN:HA	1:269:A:GLN:CB	19	94.84
(1,446)	1:267:A:ASN:N	1:267:A:ASN:C	1:267:A:ASN:HA	1:267:A:ASN:CB	20	94.84
(1,397)	1:248:A:LEU:N	1:248:A:LEU:C	1:248:A:LEU:HA	1:248:A:LEU:CB	6	94.84
(1,377)	1:239:A:ILE:N	1:239:A:ILE:C	1:239:A:ILE:HA	1:239:A:ILE:CB	4	94.84
(1,364)	1:233:A:THR:N	1:233:A:THR:C	1:233:A:THR:HA	1:233:A:THR:CB	11	94.84
(1,364)	1:233:A:THR:N	1:233:A:THR:C	1:233:A:THR:HA	1:233:A:THR:CB	20	94.84
(1,358)	1:230:A:ALA:N	1:230:A:ALA:C	1:230:A:ALA:HA	1:230:A:ALA:CB	16	94.84
(1,358)	1:230:A:ALA:N	1:230:A:ALA:C	1:230:A:ALA:HA	1:230:A:ALA:CB	17	94.84
(1,357)	1:229:A:PHE:N	1:229:A:PHE:C	1:229:A:PHE:HA	1:229:A:PHE:CB	19	94.84
(1,423)	1:258:A:SER:N	1:258:A:SER:C	1:258:A:SER:HA	1:258:A:SER:CB	3	94.83
(1,408)	1:251:A:LYS:N	1:251:A:LYS:C	1:251:A:LYS:HA	1:251:A:LYS:CB	10	94.83
(1,423)	1:258:A:SER:N	1:258:A:SER:C	1:258:A:SER:HA	1:258:A:SER:CB	14	94.82
(1,408)	1:251:A:LYS:N	1:251:A:LYS:C	1:251:A:LYS:HA	1:251:A:LYS:CB	20	94.82
(1,388)	1:244:A:CYS:N	1:244:A:CYS:C	1:244:A:CYS:HA	1:244:A:CYS:CB	6	94.82
(1,369)	1:236:A:ASP:N	1:236:A:ASP:C	1:236:A:ASP:HA	1:236:A:ASP:CB	12	94.82
(1,369)	1:236:A:ASP:N	1:236:A:ASP:C	1:236:A:ASP:HA	1:236:A:ASP:CB	16	94.82
(1,354)	1:227:A:ARG:N	1:227:A:ARG:C	1:227:A:ARG:HA	1:227:A:ARG:CB	14	94.82
(1,446)	1:267:A:ASN:N	1:267:A:ASN:C	1:267:A:ASN:HA	1:267:A:ASN:CB	8	94.81
(1,444)	1:266:A:SER:N	1:266:A:SER:C	1:266:A:SER:HA	1:266:A:SER:CB	15	94.81
(1,438)	1:263:A:LYS:N	1:263:A:LYS:C	1:263:A:LYS:HA	1:263:A:LYS:CB	17	94.81
(1,423)	1:258:A:SER:N	1:258:A:SER:C	1:258:A:SER:HA	1:258:A:SER:CB	6	94.81
(1,408)	1:251:A:LYS:N	1:251:A:LYS:C	1:251:A:LYS:HA	1:251:A:LYS:CB	16	94.81
(1,394)	1:247:A:ASP:N	1:247:A:ASP:C	1:247:A:ASP:HA	1:247:A:ASP:CB	5	94.81
(1,383)	1:242:A:SER:N	1:242:A:SER:C	1:242:A:SER:HA	1:242:A:SER:CB	15	94.81
(1,364)	1:233:A:THR:N	1:233:A:THR:C	1:233:A:THR:HA	1:233:A:THR:CB	1	94.81
(1,403)	1:250:A:ILE:N	1:250:A:ILE:C	1:250:A:ILE:HA	1:250:A:ILE:CB	14	94.8
(1,371)	1:237:A:ASP:N	1:237:A:ASP:C	1:237:A:ASP:HA	1:237:A:ASP:CB	1	94.8
(1,408)	1:251:A:LYS:N	1:251:A:LYS:C	1:251:A:LYS:HA	1:251:A:LYS:CB	8	94.79
(1,394)	1:247:A:ASP:N	1:247:A:ASP:C	1:247:A:ASP:HA	1:247:A:ASP:CB	7	94.79
(1,394)	1:247:A:ASP:N	1:247:A:ASP:C	1:247:A:ASP:HA	1:247:A:ASP:CB	17	94.79
(1,360)	1:231:A:PHE:N	1:231:A:PHE:C	1:231:A:PHE:HA	1:231:A:PHE:CB	8	94.79
(1,357)	1:229:A:PHE:N	1:229:A:PHE:C	1:229:A:PHE:HA	1:229:A:PHE:CB	4	94.79
(1,453)	1:269:A:GLN:N	1:269:A:GLN:C	1:269:A:GLN:HA	1:269:A:GLN:CB	10	94.78
(1,446)	1:267:A:ASN:N	1:267:A:ASN:C	1:267:A:ASN:HA	1:267:A:ASN:CB	2	94.78
(1,423)	1:258:A:SER:N	1:258:A:SER:C	1:258:A:SER:HA	1:258:A:SER:CB	15	94.78
(1,362)	1:232:A:VAL:N	1:232:A:VAL:C	1:232:A:VAL:HA	1:232:A:VAL:CB	15	94.78
(1,362)	1:232:A:VAL:N	1:232:A:VAL:C	1:232:A:VAL:HA	1:232:A:VAL:CB	20	94.78
(1,357)	1:229:A:PHE:N	1:229:A:PHE:C	1:229:A:PHE:HA	1:229:A:PHE:CB	1	94.78
(1,357)	1:229:A:PHE:N	1:229:A:PHE:C	1:229:A:PHE:HA	1:229:A:PHE:CB	16	94.78
(1,475)	2:5:B:G:C3'	2:5:B:G:C1'	2:5:B:G:H2'	2:5:B:G:O2'	15	94.77
(1,444)	1:266:A:SER:N	1:266:A:SER:C	1:266:A:SER:HA	1:266:A:SER:CB	20	94.77
(1,408)	1:251:A:LYS:N	1:251:A:LYS:C	1:251:A:LYS:HA	1:251:A:LYS:CB	7	94.77
(1,400)	1:249:A:ILE:N	1:249:A:ILE:C	1:249:A:ILE:HA	1:249:A:ILE:CB	5	94.77
(1,397)	1:248:A:LEU:N	1:248:A:LEU:C	1:248:A:LEU:HA	1:248:A:LEU:CB	12	94.77
(1,358)	1:230:A:ALA:N	1:230:A:ALA:C	1:230:A:ALA:HA	1:230:A:ALA:CB	11	94.77
(1,358)	1:230:A:ALA:N	1:230:A:ALA:C	1:230:A:ALA:HA	1:230:A:ALA:CB	20	94.77
(1,453)	1:269:A:GLN:N	1:269:A:GLN:C	1:269:A:GLN:HA	1:269:A:GLN:CB	17	94.76

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,423)	1:258:A:SER:N	1:258:A:SER:C	1:258:A:SER:HA	1:258:A:SER:CB	4	94.76
(1,403)	1:250:A:ILE:N	1:250:A:ILE:C	1:250:A:ILE:HA	1:250:A:ILE:CB	3	94.76
(1,403)	1:250:A:ILE:N	1:250:A:ILE:C	1:250:A:ILE:HA	1:250:A:ILE:CB	15	94.76
(1,394)	1:247:A:ASP:N	1:247:A:ASP:C	1:247:A:ASP:HA	1:247:A:ASP:CB	6	94.76
(1,377)	1:239:A:ILE:N	1:239:A:ILE:C	1:239:A:ILE:HA	1:239:A:ILE:CB	20	94.76
(1,453)	1:269:A:GLN:N	1:269:A:GLN:C	1:269:A:GLN:HA	1:269:A:GLN:CB	6	94.75
(1,429)	1:261:A:GLU:N	1:261:A:GLU:C	1:261:A:GLU:HA	1:261:A:GLU:CB	6	94.75
(1,354)	1:227:A:ARG:N	1:227:A:ARG:C	1:227:A:ARG:HA	1:227:A:ARG:CB	2	94.75
(1,444)	1:266:A:SER:N	1:266:A:SER:C	1:266:A:SER:HA	1:266:A:SER:CB	8	94.74
(1,364)	1:233:A:THR:N	1:233:A:THR:C	1:233:A:THR:HA	1:233:A:THR:CB	15	94.74
(1,358)	1:230:A:ALA:N	1:230:A:ALA:C	1:230:A:ALA:HA	1:230:A:ALA:CB	18	94.74
(1,357)	1:229:A:PHE:N	1:229:A:PHE:C	1:229:A:PHE:HA	1:229:A:PHE:CB	11	94.74
(1,426)	1:260:A:ALA:N	1:260:A:ALA:C	1:260:A:ALA:HA	1:260:A:ALA:CB	8	94.73
(1,358)	1:230:A:ALA:N	1:230:A:ALA:C	1:230:A:ALA:HA	1:230:A:ALA:CB	3	94.73
(1,426)	1:260:A:ALA:N	1:260:A:ALA:C	1:260:A:ALA:HA	1:260:A:ALA:CB	12	94.72
(1,403)	1:250:A:ILE:N	1:250:A:ILE:C	1:250:A:ILE:HA	1:250:A:ILE:CB	13	94.72
(1,383)	1:242:A:SER:N	1:242:A:SER:C	1:242:A:SER:HA	1:242:A:SER:CB	3	94.72
(1,364)	1:233:A:THR:N	1:233:A:THR:C	1:233:A:THR:HA	1:233:A:THR:CB	6	94.72
(1,429)	1:261:A:GLU:N	1:261:A:GLU:C	1:261:A:GLU:HA	1:261:A:GLU:CB	11	94.71
(1,426)	1:260:A:ALA:N	1:260:A:ALA:C	1:260:A:ALA:HA	1:260:A:ALA:CB	5	94.71
(1,426)	1:260:A:ALA:N	1:260:A:ALA:C	1:260:A:ALA:HA	1:260:A:ALA:CB	14	94.71
(1,414)	1:254:A:SER:N	1:254:A:SER:C	1:254:A:SER:HA	1:254:A:SER:CB	16	94.71
(1,400)	1:249:A:ILE:N	1:249:A:ILE:C	1:249:A:ILE:HA	1:249:A:ILE:CB	16	94.71
(1,386)	1:243:A:LEU:N	1:243:A:LEU:C	1:243:A:LEU:HA	1:243:A:LEU:CB	5	94.71
(1,386)	1:243:A:LEU:N	1:243:A:LEU:C	1:243:A:LEU:HA	1:243:A:LEU:CB	18	94.71
(1,383)	1:242:A:SER:N	1:242:A:SER:C	1:242:A:SER:HA	1:242:A:SER:CB	6	94.71
(1,400)	1:249:A:ILE:N	1:249:A:ILE:C	1:249:A:ILE:HA	1:249:A:ILE:CB	17	94.7
(1,364)	1:233:A:THR:N	1:233:A:THR:C	1:233:A:THR:HA	1:233:A:THR:CB	7	94.7
(1,354)	1:227:A:ARG:N	1:227:A:ARG:C	1:227:A:ARG:HA	1:227:A:ARG:CB	13	94.7
(1,453)	1:269:A:GLN:N	1:269:A:GLN:C	1:269:A:GLN:HA	1:269:A:GLN:CB	1	94.69
(1,414)	1:254:A:SER:N	1:254:A:SER:C	1:254:A:SER:HA	1:254:A:SER:CB	11	94.69
(1,383)	1:242:A:SER:N	1:242:A:SER:C	1:242:A:SER:HA	1:242:A:SER:CB	14	94.69
(1,377)	1:239:A:ILE:N	1:239:A:ILE:C	1:239:A:ILE:HA	1:239:A:ILE:CB	9	94.69
(1,377)	1:239:A:ILE:N	1:239:A:ILE:C	1:239:A:ILE:HA	1:239:A:ILE:CB	11	94.69
(1,362)	1:232:A:VAL:N	1:232:A:VAL:C	1:232:A:VAL:HA	1:232:A:VAL:CB	1	94.69
(1,362)	1:232:A:VAL:N	1:232:A:VAL:C	1:232:A:VAL:HA	1:232:A:VAL:CB	19	94.69
(1,421)	1:257:A:ILE:N	1:257:A:ILE:C	1:257:A:ILE:HA	1:257:A:ILE:CB	2	94.68
(1,414)	1:254:A:SER:N	1:254:A:SER:C	1:254:A:SER:HA	1:254:A:SER:CB	6	94.68
(1,408)	1:251:A:LYS:N	1:251:A:LYS:C	1:251:A:LYS:HA	1:251:A:LYS:CB	11	94.68
(1,429)	1:261:A:GLU:N	1:261:A:GLU:C	1:261:A:GLU:HA	1:261:A:GLU:CB	20	94.67
(1,426)	1:260:A:ALA:N	1:260:A:ALA:C	1:260:A:ALA:HA	1:260:A:ALA:CB	6	94.67
(1,423)	1:258:A:SER:N	1:258:A:SER:C	1:258:A:SER:HA	1:258:A:SER:CB	5	94.67
(1,408)	1:251:A:LYS:N	1:251:A:LYS:C	1:251:A:LYS:HA	1:251:A:LYS:CB	18	94.67
(1,394)	1:247:A:ASP:N	1:247:A:ASP:C	1:247:A:ASP:HA	1:247:A:ASP:CB	18	94.67
(1,354)	1:227:A:ARG:N	1:227:A:ARG:C	1:227:A:ARG:HA	1:227:A:ARG:CB	17	94.67
(1,400)	1:249:A:ILE:N	1:249:A:ILE:C	1:249:A:ILE:HA	1:249:A:ILE:CB	3	94.66
(1,400)	1:249:A:ILE:N	1:249:A:ILE:C	1:249:A:ILE:HA	1:249:A:ILE:CB	11	94.66
(1,369)	1:236:A:ASP:N	1:236:A:ASP:C	1:236:A:ASP:HA	1:236:A:ASP:CB	1	94.66
(1,369)	1:236:A:ASP:N	1:236:A:ASP:C	1:236:A:ASP:HA	1:236:A:ASP:CB	5	94.66
(1,354)	1:227:A:ARG:N	1:227:A:ARG:C	1:227:A:ARG:HA	1:227:A:ARG:CB	12	94.66
(1,485)	2:7:B:A:C3'	2:7:B:A:C1'	2:7:B:A:H2'	2:7:B:A:O2'	19	94.65

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,440)	1:264:A:HIS:N	1:264:A:HIS:C	1:264:A:HIS:HA	1:264:A:HIS:CB	1	94.65
(1,423)	1:258:A:SER:N	1:258:A:SER:C	1:258:A:SER:HA	1:258:A:SER:CB	16	94.65
(1,408)	1:251:A:LYS:N	1:251:A:LYS:C	1:251:A:LYS:HA	1:251:A:LYS:CB	12	94.65
(1,360)	1:231:A:PHE:N	1:231:A:PHE:C	1:231:A:PHE:HA	1:231:A:PHE:CB	3	94.65
(1,414)	1:254:A:SER:N	1:254:A:SER:C	1:254:A:SER:HA	1:254:A:SER:CB	9	94.64
(1,408)	1:251:A:LYS:N	1:251:A:LYS:C	1:251:A:LYS:HA	1:251:A:LYS:CB	2	94.64
(1,397)	1:248:A:LEU:N	1:248:A:LEU:C	1:248:A:LEU:HA	1:248:A:LEU:CB	5	94.64
(1,360)	1:231:A:PHE:N	1:231:A:PHE:C	1:231:A:PHE:HA	1:231:A:PHE:CB	14	94.64
(1,423)	1:258:A:SER:N	1:258:A:SER:C	1:258:A:SER:HA	1:258:A:SER:CB	20	94.63
(1,416)	1:255:A:VAL:N	1:255:A:VAL:C	1:255:A:VAL:HA	1:255:A:VAL:CB	9	94.63
(1,394)	1:247:A:ASP:N	1:247:A:ASP:C	1:247:A:ASP:HA	1:247:A:ASP:CB	9	94.63
(1,383)	1:242:A:SER:N	1:242:A:SER:C	1:242:A:SER:HA	1:242:A:SER:CB	17	94.63
(1,495)	2:9:B:G:C3'	2:9:B:G:C1'	2:9:B:G:H2'	2:9:B:G:O2'	20	94.62
(1,426)	1:260:A:ALA:N	1:260:A:ALA:C	1:260:A:ALA:HA	1:260:A:ALA:CB	11	94.62
(1,414)	1:254:A:SER:N	1:254:A:SER:C	1:254:A:SER:HA	1:254:A:SER:CB	18	94.62
(1,408)	1:251:A:LYS:N	1:251:A:LYS:C	1:251:A:LYS:HA	1:251:A:LYS:CB	9	94.62
(1,383)	1:242:A:SER:N	1:242:A:SER:C	1:242:A:SER:HA	1:242:A:SER:CB	13	94.62
(1,485)	2:7:B:A:C3'	2:7:B:A:C1'	2:7:B:A:H2'	2:7:B:A:O2'	12	94.61
(1,444)	1:266:A:SER:N	1:266:A:SER:C	1:266:A:SER:HA	1:266:A:SER:CB	16	94.61
(1,442)	1:265:A:ASN:N	1:265:A:ASN:C	1:265:A:ASN:HA	1:265:A:ASN:CB	19	94.61
(1,394)	1:247:A:ASP:N	1:247:A:ASP:C	1:247:A:ASP:HA	1:247:A:ASP:CB	12	94.61
(1,377)	1:239:A:ILE:N	1:239:A:ILE:C	1:239:A:ILE:HA	1:239:A:ILE:CB	7	94.61
(1,354)	1:227:A:ARG:N	1:227:A:ARG:C	1:227:A:ARG:HA	1:227:A:ARG:CB	8	94.61
(1,421)	1:257:A:ILE:N	1:257:A:ILE:C	1:257:A:ILE:HA	1:257:A:ILE:CB	5	94.6
(1,377)	1:239:A:ILE:N	1:239:A:ILE:C	1:239:A:ILE:HA	1:239:A:ILE:CB	17	94.6
(1,358)	1:230:A:ALA:N	1:230:A:ALA:C	1:230:A:ALA:HA	1:230:A:ALA:CB	5	94.6
(1,453)	1:269:A:GLN:N	1:269:A:GLN:C	1:269:A:GLN:HA	1:269:A:GLN:CB	11	94.59
(1,408)	1:251:A:LYS:N	1:251:A:LYS:C	1:251:A:LYS:HA	1:251:A:LYS:CB	5	94.59
(1,362)	1:232:A:VAL:N	1:232:A:VAL:C	1:232:A:VAL:HA	1:232:A:VAL:CB	8	94.59
(1,362)	1:232:A:VAL:N	1:232:A:VAL:C	1:232:A:VAL:HA	1:232:A:VAL:CB	12	94.59
(1,453)	1:269:A:GLN:N	1:269:A:GLN:C	1:269:A:GLN:HA	1:269:A:GLN:CB	9	94.58
(1,418)	1:256:A:HIS:N	1:256:A:HIS:C	1:256:A:HIS:HA	1:256:A:HIS:CB	13	94.58
(1,400)	1:249:A:ILE:N	1:249:A:ILE:C	1:249:A:ILE:HA	1:249:A:ILE:CB	10	94.58
(1,397)	1:248:A:LEU:N	1:248:A:LEU:C	1:248:A:LEU:HA	1:248:A:LEU:CB	9	94.58
(1,377)	1:239:A:ILE:N	1:239:A:ILE:C	1:239:A:ILE:HA	1:239:A:ILE:CB	1	94.58
(1,369)	1:236:A:ASP:N	1:236:A:ASP:C	1:236:A:ASP:HA	1:236:A:ASP:CB	17	94.58
(1,364)	1:233:A:THR:N	1:233:A:THR:C	1:233:A:THR:HA	1:233:A:THR:CB	9	94.58
(1,354)	1:227:A:ARG:N	1:227:A:ARG:C	1:227:A:ARG:HA	1:227:A:ARG:CB	7	94.58
(1,475)	2:5:B:G:C3'	2:5:B:G:C1'	2:5:B:G:H2'	2:5:B:G:O2'	18	94.57
(1,444)	1:266:A:SER:N	1:266:A:SER:C	1:266:A:SER:HA	1:266:A:SER:CB	9	94.57
(1,429)	1:261:A:GLU:N	1:261:A:GLU:C	1:261:A:GLU:HA	1:261:A:GLU:CB	13	94.57
(1,423)	1:258:A:SER:N	1:258:A:SER:C	1:258:A:SER:HA	1:258:A:SER:CB	19	94.57
(1,400)	1:249:A:ILE:N	1:249:A:ILE:C	1:249:A:ILE:HA	1:249:A:ILE:CB	8	94.57
(1,426)	1:260:A:ALA:N	1:260:A:ALA:C	1:260:A:ALA:HA	1:260:A:ALA:CB	4	94.56
(1,426)	1:260:A:ALA:N	1:260:A:ALA:C	1:260:A:ALA:HA	1:260:A:ALA:CB	7	94.56
(1,421)	1:257:A:ILE:N	1:257:A:ILE:C	1:257:A:ILE:HA	1:257:A:ILE:CB	3	94.56
(1,421)	1:257:A:ILE:N	1:257:A:ILE:C	1:257:A:ILE:HA	1:257:A:ILE:CB	4	94.56
(1,400)	1:249:A:ILE:N	1:249:A:ILE:C	1:249:A:ILE:HA	1:249:A:ILE:CB	6	94.56
(1,362)	1:232:A:VAL:N	1:232:A:VAL:C	1:232:A:VAL:HA	1:232:A:VAL:CB	4	94.56
(1,453)	1:269:A:GLN:N	1:269:A:GLN:C	1:269:A:GLN:HA	1:269:A:GLN:CB	13	94.55
(1,429)	1:261:A:GLU:N	1:261:A:GLU:C	1:261:A:GLU:HA	1:261:A:GLU:CB	7	94.55

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,426)	1:260:A:ALA:N	1:260:A:ALA:C	1:260:A:ALA:HA	1:260:A:ALA:CB	9	94.55
(1,423)	1:258:A:SER:N	1:258:A:SER:C	1:258:A:SER:HA	1:258:A:SER:CB	2	94.55
(1,421)	1:257:A:ILE:N	1:257:A:ILE:C	1:257:A:ILE:HA	1:257:A:ILE:CB	15	94.55
(1,412)	1:253:A:ILE:N	1:253:A:ILE:C	1:253:A:ILE:HA	1:253:A:ILE:CB	6	94.54
(1,383)	1:242:A:SER:N	1:242:A:SER:C	1:242:A:SER:HA	1:242:A:SER:CB	8	94.54
(1,369)	1:236:A:ASP:N	1:236:A:ASP:C	1:236:A:ASP:HA	1:236:A:ASP:CB	7	94.54
(1,362)	1:232:A:VAL:N	1:232:A:VAL:C	1:232:A:VAL:HA	1:232:A:VAL:CB	18	94.54
(1,421)	1:257:A:ILE:N	1:257:A:ILE:C	1:257:A:ILE:HA	1:257:A:ILE:CB	9	94.53
(1,412)	1:253:A:ILE:N	1:253:A:ILE:C	1:253:A:ILE:HA	1:253:A:ILE:CB	2	94.53
(1,408)	1:251:A:LYS:N	1:251:A:LYS:C	1:251:A:LYS:HA	1:251:A:LYS:CB	3	94.53
(1,362)	1:232:A:VAL:N	1:232:A:VAL:C	1:232:A:VAL:HA	1:232:A:VAL:CB	10	94.53
(1,354)	1:227:A:ARG:N	1:227:A:ARG:C	1:227:A:ARG:HA	1:227:A:ARG:CB	4	94.53
(1,426)	1:260:A:ALA:N	1:260:A:ALA:C	1:260:A:ALA:HA	1:260:A:ALA:CB	17	94.52
(1,383)	1:242:A:SER:N	1:242:A:SER:C	1:242:A:SER:HA	1:242:A:SER:CB	4	94.52
(1,362)	1:232:A:VAL:N	1:232:A:VAL:C	1:232:A:VAL:HA	1:232:A:VAL:CB	11	94.52
(1,354)	1:227:A:ARG:N	1:227:A:ARG:C	1:227:A:ARG:HA	1:227:A:ARG:CB	10	94.52
(1,423)	1:258:A:SER:N	1:258:A:SER:C	1:258:A:SER:HA	1:258:A:SER:CB	1	94.51
(1,408)	1:251:A:LYS:N	1:251:A:LYS:C	1:251:A:LYS:HA	1:251:A:LYS:CB	17	94.51
(1,397)	1:248:A:LEU:N	1:248:A:LEU:C	1:248:A:LEU:HA	1:248:A:LEU:CB	2	94.51
(1,412)	1:253:A:ILE:N	1:253:A:ILE:C	1:253:A:ILE:HA	1:253:A:ILE:CB	14	94.5
(1,386)	1:243:A:LEU:N	1:243:A:LEU:C	1:243:A:LEU:HA	1:243:A:LEU:CB	10	94.5
(1,360)	1:231:A:PHE:N	1:231:A:PHE:C	1:231:A:PHE:HA	1:231:A:PHE:CB	5	94.5
(1,360)	1:231:A:PHE:N	1:231:A:PHE:C	1:231:A:PHE:HA	1:231:A:PHE:CB	16	94.5
(1,426)	1:260:A:ALA:N	1:260:A:ALA:C	1:260:A:ALA:HA	1:260:A:ALA:CB	18	94.49
(1,403)	1:250:A:ILE:N	1:250:A:ILE:C	1:250:A:ILE:HA	1:250:A:ILE:CB	2	94.49
(1,400)	1:249:A:ILE:N	1:249:A:ILE:C	1:249:A:ILE:HA	1:249:A:ILE:CB	13	94.49
(1,400)	1:249:A:ILE:N	1:249:A:ILE:C	1:249:A:ILE:HA	1:249:A:ILE:CB	18	94.48
(1,444)	1:266:A:SER:N	1:266:A:SER:C	1:266:A:SER:HA	1:266:A:SER:CB	13	94.47
(1,362)	1:232:A:VAL:N	1:232:A:VAL:C	1:232:A:VAL:HA	1:232:A:VAL:CB	2	94.47
(1,362)	1:232:A:VAL:N	1:232:A:VAL:C	1:232:A:VAL:HA	1:232:A:VAL:CB	13	94.47
(1,397)	1:248:A:LEU:N	1:248:A:LEU:C	1:248:A:LEU:HA	1:248:A:LEU:CB	18	94.46
(1,386)	1:243:A:LEU:N	1:243:A:LEU:C	1:243:A:LEU:HA	1:243:A:LEU:CB	12	94.46
(1,369)	1:236:A:ASP:N	1:236:A:ASP:C	1:236:A:ASP:HA	1:236:A:ASP:CB	11	94.46
(1,438)	1:263:A:LYS:N	1:263:A:LYS:C	1:263:A:LYS:HA	1:263:A:LYS:CB	1	94.45
(1,412)	1:253:A:ILE:N	1:253:A:ILE:C	1:253:A:ILE:HA	1:253:A:ILE:CB	7	94.45
(1,412)	1:253:A:ILE:N	1:253:A:ILE:C	1:253:A:ILE:HA	1:253:A:ILE:CB	19	94.45
(1,408)	1:251:A:LYS:N	1:251:A:LYS:C	1:251:A:LYS:HA	1:251:A:LYS:CB	1	94.45
(1,360)	1:231:A:PHE:N	1:231:A:PHE:C	1:231:A:PHE:HA	1:231:A:PHE:CB	7	94.45
(1,505)	2:11:B:A:C3'	2:11:B:A:C1'	2:11:B:A:H2'	2:11:B:A:O2'	11	94.44
(1,414)	1:254:A:SER:N	1:254:A:SER:C	1:254:A:SER:HA	1:254:A:SER:CB	10	94.44
(1,412)	1:253:A:ILE:N	1:253:A:ILE:C	1:253:A:ILE:HA	1:253:A:ILE:CB	4	94.44
(1,400)	1:249:A:ILE:N	1:249:A:ILE:C	1:249:A:ILE:HA	1:249:A:ILE:CB	12	94.44
(1,397)	1:248:A:LEU:N	1:248:A:LEU:C	1:248:A:LEU:HA	1:248:A:LEU:CB	14	94.44
(1,394)	1:247:A:ASP:N	1:247:A:ASP:C	1:247:A:ASP:HA	1:247:A:ASP:CB	10	94.44
(1,429)	1:261:A:GLU:N	1:261:A:GLU:C	1:261:A:GLU:HA	1:261:A:GLU:CB	1	94.43
(1,426)	1:260:A:ALA:N	1:260:A:ALA:C	1:260:A:ALA:HA	1:260:A:ALA:CB	2	94.43
(1,362)	1:232:A:VAL:N	1:232:A:VAL:C	1:232:A:VAL:HA	1:232:A:VAL:CB	16	94.43
(1,429)	1:261:A:GLU:N	1:261:A:GLU:C	1:261:A:GLU:HA	1:261:A:GLU:CB	3	94.42
(1,429)	1:261:A:GLU:N	1:261:A:GLU:C	1:261:A:GLU:HA	1:261:A:GLU:CB	15	94.42
(1,416)	1:255:A:VAL:N	1:255:A:VAL:C	1:255:A:VAL:HA	1:255:A:VAL:CB	18	94.42
(1,505)	2:11:B:A:C3'	2:11:B:A:C1'	2:11:B:A:H2'	2:11:B:A:O2'	7	94.41

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,429)	1:261:A:GLU:N	1:261:A:GLU:C	1:261:A:GLU:HA	1:261:A:GLU:CB	17	94.41
(1,369)	1:236:A:ASP:N	1:236:A:ASP:C	1:236:A:ASP:HA	1:236:A:ASP:CB	9	94.41
(1,354)	1:227:A:ARG:N	1:227:A:ARG:C	1:227:A:ARG:HA	1:227:A:ARG:CB	20	94.41
(1,429)	1:261:A:GLU:N	1:261:A:GLU:C	1:261:A:GLU:HA	1:261:A:GLU:CB	10	94.4
(1,412)	1:253:A:ILE:N	1:253:A:ILE:C	1:253:A:ILE:HA	1:253:A:ILE:CB	9	94.4
(1,360)	1:231:A:PHE:N	1:231:A:PHE:C	1:231:A:PHE:HA	1:231:A:PHE:CB	4	94.4
(1,414)	1:254:A:SER:N	1:254:A:SER:C	1:254:A:SER:HA	1:254:A:SER:CB	4	94.39
(1,414)	1:254:A:SER:N	1:254:A:SER:C	1:254:A:SER:HA	1:254:A:SER:CB	5	94.39
(1,423)	1:258:A:SER:N	1:258:A:SER:C	1:258:A:SER:HA	1:258:A:SER:CB	8	94.38
(1,414)	1:254:A:SER:N	1:254:A:SER:C	1:254:A:SER:HA	1:254:A:SER:CB	20	94.38
(1,412)	1:253:A:ILE:N	1:253:A:ILE:C	1:253:A:ILE:HA	1:253:A:ILE:CB	17	94.38
(1,408)	1:251:A:LYS:N	1:251:A:LYS:C	1:251:A:LYS:HA	1:251:A:LYS:CB	15	94.38
(1,400)	1:249:A:ILE:N	1:249:A:ILE:C	1:249:A:ILE:HA	1:249:A:ILE:CB	20	94.38
(1,360)	1:231:A:PHE:N	1:231:A:PHE:C	1:231:A:PHE:HA	1:231:A:PHE:CB	11	94.38
(1,453)	1:269:A:GLN:N	1:269:A:GLN:C	1:269:A:GLN:HA	1:269:A:GLN:CB	12	94.37
(1,412)	1:253:A:ILE:N	1:253:A:ILE:C	1:253:A:ILE:HA	1:253:A:ILE:CB	8	94.37
(1,369)	1:236:A:ASP:N	1:236:A:ASP:C	1:236:A:ASP:HA	1:236:A:ASP:CB	13	94.37
(1,360)	1:231:A:PHE:N	1:231:A:PHE:C	1:231:A:PHE:HA	1:231:A:PHE:CB	12	94.37
(1,429)	1:261:A:GLU:N	1:261:A:GLU:C	1:261:A:GLU:HA	1:261:A:GLU:CB	9	94.36
(1,362)	1:232:A:VAL:N	1:232:A:VAL:C	1:232:A:VAL:HA	1:232:A:VAL:CB	9	94.36
(1,414)	1:254:A:SER:N	1:254:A:SER:C	1:254:A:SER:HA	1:254:A:SER:CB	8	94.35
(1,414)	1:254:A:SER:N	1:254:A:SER:C	1:254:A:SER:HA	1:254:A:SER:CB	14	94.35
(1,412)	1:253:A:ILE:N	1:253:A:ILE:C	1:253:A:ILE:HA	1:253:A:ILE:CB	5	94.35
(1,438)	1:263:A:LYS:N	1:263:A:LYS:C	1:263:A:LYS:HA	1:263:A:LYS:CB	7	94.34
(1,429)	1:261:A:GLU:N	1:261:A:GLU:C	1:261:A:GLU:HA	1:261:A:GLU:CB	5	94.33
(1,416)	1:255:A:VAL:N	1:255:A:VAL:C	1:255:A:VAL:HA	1:255:A:VAL:CB	2	94.33
(1,416)	1:255:A:VAL:N	1:255:A:VAL:C	1:255:A:VAL:HA	1:255:A:VAL:CB	17	94.33
(1,421)	1:257:A:ILE:N	1:257:A:ILE:C	1:257:A:ILE:HA	1:257:A:ILE:CB	8	94.32
(1,505)	2:11:B:A:C3'	2:11:B:A:C1'	2:11:B:A:H2'	2:11:B:A:O2'	10	94.31
(1,362)	1:232:A:VAL:N	1:232:A:VAL:C	1:232:A:VAL:HA	1:232:A:VAL:CB	17	94.31
(1,421)	1:257:A:ILE:N	1:257:A:ILE:C	1:257:A:ILE:HA	1:257:A:ILE:CB	14	94.3
(1,360)	1:231:A:PHE:N	1:231:A:PHE:C	1:231:A:PHE:HA	1:231:A:PHE:CB	15	94.3
(1,360)	1:231:A:PHE:N	1:231:A:PHE:C	1:231:A:PHE:HA	1:231:A:PHE:CB	19	94.3
(1,485)	2:7:B:A:C3'	2:7:B:A:C1'	2:7:B:A:H2'	2:7:B:A:O2'	17	94.29
(1,429)	1:261:A:GLU:N	1:261:A:GLU:C	1:261:A:GLU:HA	1:261:A:GLU:CB	2	94.29
(1,429)	1:261:A:GLU:N	1:261:A:GLU:C	1:261:A:GLU:HA	1:261:A:GLU:CB	19	94.29
(1,369)	1:236:A:ASP:N	1:236:A:ASP:C	1:236:A:ASP:HA	1:236:A:ASP:CB	15	94.29
(1,416)	1:255:A:VAL:N	1:255:A:VAL:C	1:255:A:VAL:HA	1:255:A:VAL:CB	14	94.28
(1,414)	1:254:A:SER:N	1:254:A:SER:C	1:254:A:SER:HA	1:254:A:SER:CB	2	94.27
(1,412)	1:253:A:ILE:N	1:253:A:ILE:C	1:253:A:ILE:HA	1:253:A:ILE:CB	10	94.27
(1,360)	1:231:A:PHE:N	1:231:A:PHE:C	1:231:A:PHE:HA	1:231:A:PHE:CB	2	94.27
(1,423)	1:258:A:SER:N	1:258:A:SER:C	1:258:A:SER:HA	1:258:A:SER:CB	12	94.26
(1,414)	1:254:A:SER:N	1:254:A:SER:C	1:254:A:SER:HA	1:254:A:SER:CB	17	94.26
(1,505)	2:11:B:A:C3'	2:11:B:A:C1'	2:11:B:A:H2'	2:11:B:A:O2'	3	94.24
(1,505)	2:11:B:A:C3'	2:11:B:A:C1'	2:11:B:A:H2'	2:11:B:A:O2'	16	94.23
(1,475)	2:5:B:G:C3'	2:5:B:G:C1'	2:5:B:G:H2'	2:5:B:G:O2'	17	94.23
(1,360)	1:231:A:PHE:N	1:231:A:PHE:C	1:231:A:PHE:HA	1:231:A:PHE:CB	18	94.23
(1,412)	1:253:A:ILE:N	1:253:A:ILE:C	1:253:A:ILE:HA	1:253:A:ILE:CB	12	94.22
(1,429)	1:261:A:GLU:N	1:261:A:GLU:C	1:261:A:GLU:HA	1:261:A:GLU:CB	16	94.21
(1,412)	1:253:A:ILE:N	1:253:A:ILE:C	1:253:A:ILE:HA	1:253:A:ILE:CB	13	94.21
(1,400)	1:249:A:ILE:N	1:249:A:ILE:C	1:249:A:ILE:HA	1:249:A:ILE:CB	19	94.21

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,362)	1:232:A:VAL:N	1:232:A:VAL:C	1:232:A:VAL:HA	1:232:A:VAL:CB	7	94.21
(1,475)	2:5:B:G:C3'	2:5:B:G:C1'	2:5:B:G:H2'	2:5:B:G:O2'	19	94.2
(1,450)	1:268:A:ARG:N	1:268:A:ARG:C	1:268:A:ARG:HA	1:268:A:ARG:CB	9	94.2
(1,360)	1:231:A:PHE:N	1:231:A:PHE:C	1:231:A:PHE:HA	1:231:A:PHE:CB	20	94.2
(1,354)	1:227:A:ARG:N	1:227:A:ARG:C	1:227:A:ARG:HA	1:227:A:ARG:CB	3	94.2
(1,354)	1:227:A:ARG:N	1:227:A:ARG:C	1:227:A:ARG:HA	1:227:A:ARG:CB	19	94.2
(1,500)	2:10:B:A:C3'	2:10:B:A:C1'	2:10:B:A:H2'	2:10:B:A:O2'	19	94.19
(1,485)	2:7:B:A:C3'	2:7:B:A:C1'	2:7:B:A:H2'	2:7:B:A:O2'	13	94.19
(1,412)	1:253:A:ILE:N	1:253:A:ILE:C	1:253:A:ILE:HA	1:253:A:ILE:CB	11	94.19
(1,412)	1:253:A:ILE:N	1:253:A:ILE:C	1:253:A:ILE:HA	1:253:A:ILE:CB	18	94.19
(1,416)	1:255:A:VAL:N	1:255:A:VAL:C	1:255:A:VAL:HA	1:255:A:VAL:CB	12	94.18
(1,360)	1:231:A:PHE:N	1:231:A:PHE:C	1:231:A:PHE:HA	1:231:A:PHE:CB	10	94.18
(1,421)	1:257:A:ILE:N	1:257:A:ILE:C	1:257:A:ILE:HA	1:257:A:ILE:CB	12	94.17
(1,421)	1:257:A:ILE:N	1:257:A:ILE:C	1:257:A:ILE:HA	1:257:A:ILE:CB	16	94.16
(1,416)	1:255:A:VAL:N	1:255:A:VAL:C	1:255:A:VAL:HA	1:255:A:VAL:CB	11	94.16
(1,429)	1:261:A:GLU:N	1:261:A:GLU:C	1:261:A:GLU:HA	1:261:A:GLU:CB	12	94.15
(1,421)	1:257:A:ILE:N	1:257:A:ILE:C	1:257:A:ILE:HA	1:257:A:ILE:CB	6	94.15
(1,400)	1:249:A:ILE:N	1:249:A:ILE:C	1:249:A:ILE:HA	1:249:A:ILE:CB	4	94.15
(1,360)	1:231:A:PHE:N	1:231:A:PHE:C	1:231:A:PHE:HA	1:231:A:PHE:CB	17	94.15
(1,485)	2:7:B:A:C3'	2:7:B:A:C1'	2:7:B:A:H2'	2:7:B:A:O2'	7	94.14
(1,429)	1:261:A:GLU:N	1:261:A:GLU:C	1:261:A:GLU:HA	1:261:A:GLU:CB	18	94.14
(1,429)	1:261:A:GLU:N	1:261:A:GLU:C	1:261:A:GLU:HA	1:261:A:GLU:CB	4	94.13
(1,429)	1:261:A:GLU:N	1:261:A:GLU:C	1:261:A:GLU:HA	1:261:A:GLU:CB	8	94.13
(1,429)	1:261:A:GLU:N	1:261:A:GLU:C	1:261:A:GLU:HA	1:261:A:GLU:CB	14	94.13
(1,416)	1:255:A:VAL:N	1:255:A:VAL:C	1:255:A:VAL:HA	1:255:A:VAL:CB	1	94.13
(1,416)	1:255:A:VAL:N	1:255:A:VAL:C	1:255:A:VAL:HA	1:255:A:VAL:CB	3	94.13
(1,421)	1:257:A:ILE:N	1:257:A:ILE:C	1:257:A:ILE:HA	1:257:A:ILE:CB	20	94.12
(1,416)	1:255:A:VAL:N	1:255:A:VAL:C	1:255:A:VAL:HA	1:255:A:VAL:CB	8	94.12
(1,495)	2:9:B:G:C3'	2:9:B:G:C1'	2:9:B:G:H2'	2:9:B:G:O2'	10	94.1
(1,412)	1:253:A:ILE:N	1:253:A:ILE:C	1:253:A:ILE:HA	1:253:A:ILE:CB	16	94.1
(1,505)	2:11:B:A:C3'	2:11:B:A:C1'	2:11:B:A:H2'	2:11:B:A:O2'	2	94.09
(1,416)	1:255:A:VAL:N	1:255:A:VAL:C	1:255:A:VAL:HA	1:255:A:VAL:CB	5	94.09
(1,358)	1:230:A:ALA:N	1:230:A:ALA:C	1:230:A:ALA:HA	1:230:A:ALA:CB	9	94.09
(1,412)	1:253:A:ILE:N	1:253:A:ILE:C	1:253:A:ILE:HA	1:253:A:ILE:CB	1	94.08
(1,412)	1:253:A:ILE:N	1:253:A:ILE:C	1:253:A:ILE:HA	1:253:A:ILE:CB	3	94.08
(1,485)	2:7:B:A:C3'	2:7:B:A:C1'	2:7:B:A:H2'	2:7:B:A:O2'	6	94.06
(1,400)	1:249:A:ILE:N	1:249:A:ILE:C	1:249:A:ILE:HA	1:249:A:ILE:CB	15	94.05
(1,470)	2:4:B:U:C3'	2:4:B:U:C1'	2:4:B:U:H2'	2:4:B:U:O2'	18	94.04
(1,412)	1:253:A:ILE:N	1:253:A:ILE:C	1:253:A:ILE:HA	1:253:A:ILE:CB	15	94.04
(1,416)	1:255:A:VAL:N	1:255:A:VAL:C	1:255:A:VAL:HA	1:255:A:VAL:CB	4	94.03
(1,500)	2:10:B:A:C3'	2:10:B:A:C1'	2:10:B:A:H2'	2:10:B:A:O2'	15	94.02
(1,414)	1:254:A:SER:N	1:254:A:SER:C	1:254:A:SER:HA	1:254:A:SER:CB	7	94.02
(1,475)	2:5:B:G:C3'	2:5:B:G:C1'	2:5:B:G:H2'	2:5:B:G:O2'	16	94.01
(1,414)	1:254:A:SER:N	1:254:A:SER:C	1:254:A:SER:HA	1:254:A:SER:CB	13	94.0
(1,416)	1:255:A:VAL:N	1:255:A:VAL:C	1:255:A:VAL:HA	1:255:A:VAL:CB	6	93.99
(1,360)	1:231:A:PHE:N	1:231:A:PHE:C	1:231:A:PHE:HA	1:231:A:PHE:CB	13	93.99
(1,360)	1:231:A:PHE:N	1:231:A:PHE:C	1:231:A:PHE:HA	1:231:A:PHE:CB	1	93.98
(1,510)	2:12:B:U:C3'	2:12:B:U:C1'	2:12:B:U:H2'	2:12:B:U:O2'	3	93.96
(1,421)	1:257:A:ILE:N	1:257:A:ILE:C	1:257:A:ILE:HA	1:257:A:ILE:CB	7	93.96
(1,416)	1:255:A:VAL:N	1:255:A:VAL:C	1:255:A:VAL:HA	1:255:A:VAL:CB	19	93.95
(1,480)	2:6:B:A:C3'	2:6:B:A:C1'	2:6:B:A:H2'	2:6:B:A:O2'	20	93.94

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,421)	1:257:A:ILE:N	1:257:A:ILE:C	1:257:A:ILE:HA	1:257:A:ILE:CB	17	93.94
(1,485)	2:7:B:A:C3'	2:7:B:A:C1'	2:7:B:A:H2'	2:7:B:A:O2'	15	93.92
(1,412)	1:253:A:ILE:N	1:253:A:ILE:C	1:253:A:ILE:HA	1:253:A:ILE:CB	20	93.91
(1,510)	2:12:B:U:C3'	2:12:B:U:C1'	2:12:B:U:H2'	2:12:B:U:O2'	13	93.89
(1,414)	1:254:A:SER:N	1:254:A:SER:C	1:254:A:SER:HA	1:254:A:SER:CB	15	93.89
(1,510)	2:12:B:U:C3'	2:12:B:U:C1'	2:12:B:U:H2'	2:12:B:U:O2'	2	93.88
(1,485)	2:7:B:A:C3'	2:7:B:A:C1'	2:7:B:A:H2'	2:7:B:A:O2'	5	93.88
(1,416)	1:255:A:VAL:N	1:255:A:VAL:C	1:255:A:VAL:HA	1:255:A:VAL:CB	16	93.88
(1,414)	1:254:A:SER:N	1:254:A:SER:C	1:254:A:SER:HA	1:254:A:SER:CB	19	93.88
(1,421)	1:257:A:ILE:N	1:257:A:ILE:C	1:257:A:ILE:HA	1:257:A:ILE:CB	13	93.87
(1,360)	1:231:A:PHE:N	1:231:A:PHE:C	1:231:A:PHE:HA	1:231:A:PHE:CB	9	93.84
(1,480)	2:6:B:A:C3'	2:6:B:A:C1'	2:6:B:A:H2'	2:6:B:A:O2'	3	93.83
(1,416)	1:255:A:VAL:N	1:255:A:VAL:C	1:255:A:VAL:HA	1:255:A:VAL:CB	13	93.83
(1,510)	2:12:B:U:C3'	2:12:B:U:C1'	2:12:B:U:H2'	2:12:B:U:O2'	5	93.82
(1,510)	2:12:B:U:C3'	2:12:B:U:C1'	2:12:B:U:H2'	2:12:B:U:O2'	16	93.81
(1,475)	2:5:B:G:C3'	2:5:B:G:C1'	2:5:B:G:H2'	2:5:B:G:O2'	4	93.81
(1,416)	1:255:A:VAL:N	1:255:A:VAL:C	1:255:A:VAL:HA	1:255:A:VAL:CB	7	93.81
(1,510)	2:12:B:U:C3'	2:12:B:U:C1'	2:12:B:U:H2'	2:12:B:U:O2'	8	93.78
(1,460)	2:2:B:U:C3'	2:2:B:U:C1'	2:2:B:U:H2'	2:2:B:U:O2'	4	93.78
(1,414)	1:254:A:SER:N	1:254:A:SER:C	1:254:A:SER:HA	1:254:A:SER:CB	12	93.78
(1,480)	2:6:B:A:C3'	2:6:B:A:C1'	2:6:B:A:H2'	2:6:B:A:O2'	17	93.76
(1,470)	2:4:B:U:C3'	2:4:B:U:C1'	2:4:B:U:H2'	2:4:B:U:O2'	1	93.76
(1,470)	2:4:B:U:C3'	2:4:B:U:C1'	2:4:B:U:H2'	2:4:B:U:O2'	8	93.76
(1,510)	2:12:B:U:C3'	2:12:B:U:C1'	2:12:B:U:H2'	2:12:B:U:O2'	6	93.75
(1,495)	2:9:B:G:C3'	2:9:B:G:C1'	2:9:B:G:H2'	2:9:B:G:O2'	13	93.75
(1,495)	2:9:B:G:C3'	2:9:B:G:C1'	2:9:B:G:H2'	2:9:B:G:O2'	18	93.75
(1,485)	2:7:B:A:C3'	2:7:B:A:C1'	2:7:B:A:H2'	2:7:B:A:O2'	3	93.74
(1,485)	2:7:B:A:C3'	2:7:B:A:C1'	2:7:B:A:H2'	2:7:B:A:O2'	4	93.74
(1,480)	2:6:B:A:C3'	2:6:B:A:C1'	2:6:B:A:H2'	2:6:B:A:O2'	10	93.74
(1,416)	1:255:A:VAL:N	1:255:A:VAL:C	1:255:A:VAL:HA	1:255:A:VAL:CB	10	93.74
(1,510)	2:12:B:U:C3'	2:12:B:U:C1'	2:12:B:U:H2'	2:12:B:U:O2'	11	93.73
(1,460)	2:2:B:U:C3'	2:2:B:U:C1'	2:2:B:U:H2'	2:2:B:U:O2'	2	93.73
(1,421)	1:257:A:ILE:N	1:257:A:ILE:C	1:257:A:ILE:HA	1:257:A:ILE:CB	10	93.73
(1,485)	2:7:B:A:C3'	2:7:B:A:C1'	2:7:B:A:H2'	2:7:B:A:O2'	10	93.72
(1,416)	1:255:A:VAL:N	1:255:A:VAL:C	1:255:A:VAL:HA	1:255:A:VAL:CB	20	93.72
(1,485)	2:7:B:A:C3'	2:7:B:A:C1'	2:7:B:A:H2'	2:7:B:A:O2'	20	93.71
(1,500)	2:10:B:A:C3'	2:10:B:A:C1'	2:10:B:A:H2'	2:10:B:A:O2'	8	93.69
(1,500)	2:10:B:A:C3'	2:10:B:A:C1'	2:10:B:A:H2'	2:10:B:A:O2'	12	93.68
(1,485)	2:7:B:A:C3'	2:7:B:A:C1'	2:7:B:A:H2'	2:7:B:A:O2'	11	93.68
(1,510)	2:12:B:U:C3'	2:12:B:U:C1'	2:12:B:U:H2'	2:12:B:U:O2'	4	93.67
(1,500)	2:10:B:A:C3'	2:10:B:A:C1'	2:10:B:A:H2'	2:10:B:A:O2'	6	93.66
(1,416)	1:255:A:VAL:N	1:255:A:VAL:C	1:255:A:VAL:HA	1:255:A:VAL:CB	15	93.66
(1,495)	2:9:B:G:C3'	2:9:B:G:C1'	2:9:B:G:H2'	2:9:B:G:O2'	19	93.65
(1,480)	2:6:B:A:C3'	2:6:B:A:C1'	2:6:B:A:H2'	2:6:B:A:O2'	14	93.65
(1,500)	2:10:B:A:C3'	2:10:B:A:C1'	2:10:B:A:H2'	2:10:B:A:O2'	20	93.64
(1,460)	2:2:B:U:C3'	2:2:B:U:C1'	2:2:B:U:H2'	2:2:B:U:O2'	7	93.63
(1,500)	2:10:B:A:C3'	2:10:B:A:C1'	2:10:B:A:H2'	2:10:B:A:O2'	5	93.6
(1,495)	2:9:B:G:C3'	2:9:B:G:C1'	2:9:B:G:H2'	2:9:B:G:O2'	5	93.6
(1,470)	2:4:B:U:C3'	2:4:B:U:C1'	2:4:B:U:H2'	2:4:B:U:O2'	16	93.59
(1,480)	2:6:B:A:C3'	2:6:B:A:C1'	2:6:B:A:H2'	2:6:B:A:O2'	9	93.58
(1,510)	2:12:B:U:C3'	2:12:B:U:C1'	2:12:B:U:H2'	2:12:B:U:O2'	7	93.57

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,500)	2:10:B:A:C3'	2:10:B:A:C1'	2:10:B:A:H2'	2:10:B:A:O2'	4	93.57
(1,510)	2:12:B:U:C3'	2:12:B:U:C1'	2:12:B:U:H2'	2:12:B:U:O2'	10	93.56
(1,480)	2:6:B:A:C3'	2:6:B:A:C1'	2:6:B:A:H2'	2:6:B:A:O2'	18	93.56
(1,500)	2:10:B:A:C3'	2:10:B:A:C1'	2:10:B:A:H2'	2:10:B:A:O2'	14	93.55
(1,505)	2:11:B:A:C3'	2:11:B:A:C1'	2:11:B:A:H2'	2:11:B:A:O2'	8	93.54
(1,470)	2:4:B:U:C3'	2:4:B:U:C1'	2:4:B:U:H2'	2:4:B:U:O2'	7	93.53
(1,394)	1:247:A:ASP:N	1:247:A:ASP:C	1:247:A:ASP:HA	1:247:A:ASP:CB	11	93.51
(1,495)	2:9:B:G:C3'	2:9:B:G:C1'	2:9:B:G:H2'	2:9:B:G:O2'	12	93.5
(1,510)	2:12:B:U:C3'	2:12:B:U:C1'	2:12:B:U:H2'	2:12:B:U:O2'	17	93.48
(1,505)	2:11:B:A:C3'	2:11:B:A:C1'	2:11:B:A:H2'	2:11:B:A:O2'	6	93.48
(1,485)	2:7:B:A:C3'	2:7:B:A:C1'	2:7:B:A:H2'	2:7:B:A:O2'	18	93.48
(1,480)	2:6:B:A:C3'	2:6:B:A:C1'	2:6:B:A:H2'	2:6:B:A:O2'	6	93.48
(1,460)	2:2:B:U:C3'	2:2:B:U:C1'	2:2:B:U:H2'	2:2:B:U:O2'	17	93.46
(1,500)	2:10:B:A:C3'	2:10:B:A:C1'	2:10:B:A:H2'	2:10:B:A:O2'	1	93.45
(1,480)	2:6:B:A:C3'	2:6:B:A:C1'	2:6:B:A:H2'	2:6:B:A:O2'	7	93.45
(1,460)	2:2:B:U:C3'	2:2:B:U:C1'	2:2:B:U:H2'	2:2:B:U:O2'	9	93.45
(1,480)	2:6:B:A:C3'	2:6:B:A:C1'	2:6:B:A:H2'	2:6:B:A:O2'	16	93.44
(1,495)	2:9:B:G:C3'	2:9:B:G:C1'	2:9:B:G:H2'	2:9:B:G:O2'	4	93.43
(1,460)	2:2:B:U:C3'	2:2:B:U:C1'	2:2:B:U:H2'	2:2:B:U:O2'	14	93.43
(1,510)	2:12:B:U:C3'	2:12:B:U:C1'	2:12:B:U:H2'	2:12:B:U:O2'	20	93.41
(1,495)	2:9:B:G:C3'	2:9:B:G:C1'	2:9:B:G:H2'	2:9:B:G:O2'	3	93.41
(1,470)	2:4:B:U:C3'	2:4:B:U:C1'	2:4:B:U:H2'	2:4:B:U:O2'	17	93.41
(1,510)	2:12:B:U:C3'	2:12:B:U:C1'	2:12:B:U:H2'	2:12:B:U:O2'	9	93.4
(1,485)	2:7:B:A:C3'	2:7:B:A:C1'	2:7:B:A:H2'	2:7:B:A:O2'	9	93.4
(1,485)	2:7:B:A:C3'	2:7:B:A:C1'	2:7:B:A:H2'	2:7:B:A:O2'	16	93.4
(1,480)	2:6:B:A:C3'	2:6:B:A:C1'	2:6:B:A:H2'	2:6:B:A:O2'	1	93.4
(1,470)	2:4:B:U:C3'	2:4:B:U:C1'	2:4:B:U:H2'	2:4:B:U:O2'	5	93.4
(1,495)	2:9:B:G:C3'	2:9:B:G:C1'	2:9:B:G:H2'	2:9:B:G:O2'	11	93.39
(1,480)	2:6:B:A:C3'	2:6:B:A:C1'	2:6:B:A:H2'	2:6:B:A:O2'	13	93.39
(1,470)	2:4:B:U:C3'	2:4:B:U:C1'	2:4:B:U:H2'	2:4:B:U:O2'	14	93.39
(1,460)	2:2:B:U:C3'	2:2:B:U:C1'	2:2:B:U:H2'	2:2:B:U:O2'	3	93.39
(1,460)	2:2:B:U:C3'	2:2:B:U:C1'	2:2:B:U:H2'	2:2:B:U:O2'	8	93.39
(1,470)	2:4:B:U:C3'	2:4:B:U:C1'	2:4:B:U:H2'	2:4:B:U:O2'	12	93.38
(1,480)	2:6:B:A:C3'	2:6:B:A:C1'	2:6:B:A:H2'	2:6:B:A:O2'	4	93.37
(1,505)	2:11:B:A:C3'	2:11:B:A:C1'	2:11:B:A:H2'	2:11:B:A:O2'	15	93.36
(1,505)	2:11:B:A:C3'	2:11:B:A:C1'	2:11:B:A:H2'	2:11:B:A:O2'	20	93.36
(1,500)	2:10:B:A:C3'	2:10:B:A:C1'	2:10:B:A:H2'	2:10:B:A:O2'	18	93.36
(1,485)	2:7:B:A:C3'	2:7:B:A:C1'	2:7:B:A:H2'	2:7:B:A:O2'	1	93.36
(1,470)	2:4:B:U:C3'	2:4:B:U:C1'	2:4:B:U:H2'	2:4:B:U:O2'	11	93.36
(1,460)	2:2:B:U:C3'	2:2:B:U:C1'	2:2:B:U:H2'	2:2:B:U:O2'	5	93.36
(1,460)	2:2:B:U:C3'	2:2:B:U:C1'	2:2:B:U:H2'	2:2:B:U:O2'	11	93.36
(1,460)	2:2:B:U:C3'	2:2:B:U:C1'	2:2:B:U:H2'	2:2:B:U:O2'	18	93.36
(1,480)	2:6:B:A:C3'	2:6:B:A:C1'	2:6:B:A:H2'	2:6:B:A:O2'	8	93.35
(1,470)	2:4:B:U:C3'	2:4:B:U:C1'	2:4:B:U:H2'	2:4:B:U:O2'	13	93.35
(1,500)	2:10:B:A:C3'	2:10:B:A:C1'	2:10:B:A:H2'	2:10:B:A:O2'	13	93.34
(1,490)	2:8:B:U:C3'	2:8:B:U:C1'	2:8:B:U:H2'	2:8:B:U:O2'	7	93.34
(1,490)	2:8:B:U:C3'	2:8:B:U:C1'	2:8:B:U:H2'	2:8:B:U:O2'	14	93.34
(1,421)	1:257:A:ILE:N	1:257:A:ILE:C	1:257:A:ILE:HA	1:257:A:ILE:CB	18	93.34
(1,510)	2:12:B:U:C3'	2:12:B:U:C1'	2:12:B:U:H2'	2:12:B:U:O2'	18	93.33
(1,505)	2:11:B:A:C3'	2:11:B:A:C1'	2:11:B:A:H2'	2:11:B:A:O2'	17	93.33
(1,495)	2:9:B:G:C3'	2:9:B:G:C1'	2:9:B:G:H2'	2:9:B:G:O2'	16	93.33

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,460)	2:2:B:U:C3'	2:2:B:U:C1'	2:2:B:U:H2'	2:2:B:U:O2'	12	93.33
(1,455)	2:1:B:G:C3'	2:1:B:G:C1'	2:1:B:G:H2'	2:1:B:G:O2'	7	93.33
(1,505)	2:11:B:A:C3'	2:11:B:A:C1'	2:11:B:A:H2'	2:11:B:A:O2'	9	93.31
(1,480)	2:6:B:A:C3'	2:6:B:A:C1'	2:6:B:A:H2'	2:6:B:A:O2'	2	93.31
(1,470)	2:4:B:U:C3'	2:4:B:U:C1'	2:4:B:U:H2'	2:4:B:U:O2'	10	93.31
(1,470)	2:4:B:U:C3'	2:4:B:U:C1'	2:4:B:U:H2'	2:4:B:U:O2'	19	93.31
(1,490)	2:8:B:U:C3'	2:8:B:U:C1'	2:8:B:U:H2'	2:8:B:U:O2'	17	93.3
(1,460)	2:2:B:U:C3'	2:2:B:U:C1'	2:2:B:U:H2'	2:2:B:U:O2'	6	93.3
(1,460)	2:2:B:U:C3'	2:2:B:U:C1'	2:2:B:U:H2'	2:2:B:U:O2'	19	93.29
(1,490)	2:8:B:U:C3'	2:8:B:U:C1'	2:8:B:U:H2'	2:8:B:U:O2'	1	93.28
(1,455)	2:1:B:G:C3'	2:1:B:G:C1'	2:1:B:G:H2'	2:1:B:G:O2'	12	93.28
(1,455)	2:1:B:G:C3'	2:1:B:G:C1'	2:1:B:G:H2'	2:1:B:G:O2'	16	93.28
(1,495)	2:9:B:G:C3'	2:9:B:G:C1'	2:9:B:G:H2'	2:9:B:G:O2'	7	93.27
(1,490)	2:8:B:U:C3'	2:8:B:U:C1'	2:8:B:U:H2'	2:8:B:U:O2'	19	93.27
(1,500)	2:10:B:A:C3'	2:10:B:A:C1'	2:10:B:A:H2'	2:10:B:A:O2'	17	93.26
(1,495)	2:9:B:G:C3'	2:9:B:G:C1'	2:9:B:G:H2'	2:9:B:G:O2'	6	93.26
(1,470)	2:4:B:U:C3'	2:4:B:U:C1'	2:4:B:U:H2'	2:4:B:U:O2'	9	93.26
(1,500)	2:10:B:A:C3'	2:10:B:A:C1'	2:10:B:A:H2'	2:10:B:A:O2'	9	93.22
(1,470)	2:4:B:U:C3'	2:4:B:U:C1'	2:4:B:U:H2'	2:4:B:U:O2'	4	93.22
(1,460)	2:2:B:U:C3'	2:2:B:U:C1'	2:2:B:U:H2'	2:2:B:U:O2'	16	93.22
(1,510)	2:12:B:U:C3'	2:12:B:U:C1'	2:12:B:U:H2'	2:12:B:U:O2'	12	93.2
(1,480)	2:6:B:A:C3'	2:6:B:A:C1'	2:6:B:A:H2'	2:6:B:A:O2'	11	93.2
(1,495)	2:9:B:G:C3'	2:9:B:G:C1'	2:9:B:G:H2'	2:9:B:G:O2'	2	93.19
(1,505)	2:11:B:A:C3'	2:11:B:A:C1'	2:11:B:A:H2'	2:11:B:A:O2'	19	93.18
(1,490)	2:8:B:U:C3'	2:8:B:U:C1'	2:8:B:U:H2'	2:8:B:U:O2'	6	93.18
(1,460)	2:2:B:U:C3'	2:2:B:U:C1'	2:2:B:U:H2'	2:2:B:U:O2'	20	93.18
(1,490)	2:8:B:U:C3'	2:8:B:U:C1'	2:8:B:U:H2'	2:8:B:U:O2'	12	93.17
(1,490)	2:8:B:U:C3'	2:8:B:U:C1'	2:8:B:U:H2'	2:8:B:U:O2'	13	93.16
(1,490)	2:8:B:U:C3'	2:8:B:U:C1'	2:8:B:U:H2'	2:8:B:U:O2'	18	93.16
(1,455)	2:1:B:G:C3'	2:1:B:G:C1'	2:1:B:G:H2'	2:1:B:G:O2'	3	93.16
(1,505)	2:11:B:A:C3'	2:11:B:A:C1'	2:11:B:A:H2'	2:11:B:A:O2'	5	93.15
(1,510)	2:12:B:U:C3'	2:12:B:U:C1'	2:12:B:U:H2'	2:12:B:U:O2'	19	93.13
(1,505)	2:11:B:A:C3'	2:11:B:A:C1'	2:11:B:A:H2'	2:11:B:A:O2'	13	93.13
(1,505)	2:11:B:A:C3'	2:11:B:A:C1'	2:11:B:A:H2'	2:11:B:A:O2'	14	93.13
(1,505)	2:11:B:A:C3'	2:11:B:A:C1'	2:11:B:A:H2'	2:11:B:A:O2'	18	93.13
(1,480)	2:6:B:A:C3'	2:6:B:A:C1'	2:6:B:A:H2'	2:6:B:A:O2'	19	93.13
(1,510)	2:12:B:U:C3'	2:12:B:U:C1'	2:12:B:U:H2'	2:12:B:U:O2'	14	93.12
(1,505)	2:11:B:A:C3'	2:11:B:A:C1'	2:11:B:A:H2'	2:11:B:A:O2'	1	93.12
(1,480)	2:6:B:A:C3'	2:6:B:A:C1'	2:6:B:A:H2'	2:6:B:A:O2'	5	93.12
(1,470)	2:4:B:U:C3'	2:4:B:U:C1'	2:4:B:U:H2'	2:4:B:U:O2'	6	93.12
(1,490)	2:8:B:U:C3'	2:8:B:U:C1'	2:8:B:U:H2'	2:8:B:U:O2'	8	93.11
(1,490)	2:8:B:U:C3'	2:8:B:U:C1'	2:8:B:U:H2'	2:8:B:U:O2'	15	93.11
(1,470)	2:4:B:U:C3'	2:4:B:U:C1'	2:4:B:U:H2'	2:4:B:U:O2'	3	93.11
(1,470)	2:4:B:U:C3'	2:4:B:U:C1'	2:4:B:U:H2'	2:4:B:U:O2'	15	93.1
(1,455)	2:1:B:G:C3'	2:1:B:G:C1'	2:1:B:G:H2'	2:1:B:G:O2'	1	93.1
(1,505)	2:11:B:A:C3'	2:11:B:A:C1'	2:11:B:A:H2'	2:11:B:A:O2'	4	93.09
(1,505)	2:11:B:A:C3'	2:11:B:A:C1'	2:11:B:A:H2'	2:11:B:A:O2'	12	93.09
(1,500)	2:10:B:A:C3'	2:10:B:A:C1'	2:10:B:A:H2'	2:10:B:A:O2'	16	93.09
(1,460)	2:2:B:U:C3'	2:2:B:U:C1'	2:2:B:U:H2'	2:2:B:U:O2'	1	93.08
(1,490)	2:8:B:U:C3'	2:8:B:U:C1'	2:8:B:U:H2'	2:8:B:U:O2'	20	93.07
(1,490)	2:8:B:U:C3'	2:8:B:U:C1'	2:8:B:U:H2'	2:8:B:U:O2'	4	93.05

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,490)	2:8:B:U:C3'	2:8:B:U:C1'	2:8:B:U:H2'	2:8:B:U:O2'	16	93.03
(1,465)	2:3:B:G:C3'	2:3:B:G:C1'	2:3:B:G:H2'	2:3:B:G:O2'	1	93.03
(1,465)	2:3:B:G:C3'	2:3:B:G:C1'	2:3:B:G:H2'	2:3:B:G:O2'	10	93.03
(1,490)	2:8:B:U:C3'	2:8:B:U:C1'	2:8:B:U:H2'	2:8:B:U:O2'	2	93.01
(1,490)	2:8:B:U:C3'	2:8:B:U:C1'	2:8:B:U:H2'	2:8:B:U:O2'	10	93.01
(1,470)	2:4:B:U:C3'	2:4:B:U:C1'	2:4:B:U:H2'	2:4:B:U:O2'	20	93.01
(1,455)	2:1:B:G:C3'	2:1:B:G:C1'	2:1:B:G:H2'	2:1:B:G:O2'	4	93.01
(1,500)	2:10:B:A:C3'	2:10:B:A:C1'	2:10:B:A:H2'	2:10:B:A:O2'	7	93.0
(1,485)	2:7:B:A:C3'	2:7:B:A:C1'	2:7:B:A:H2'	2:7:B:A:O2'	2	93.0
(1,470)	2:4:B:U:C3'	2:4:B:U:C1'	2:4:B:U:H2'	2:4:B:U:O2'	2	93.0
(1,465)	2:3:B:G:C3'	2:3:B:G:C1'	2:3:B:G:H2'	2:3:B:G:O2'	13	93.0
(1,455)	2:1:B:G:C3'	2:1:B:G:C1'	2:1:B:G:H2'	2:1:B:G:O2'	13	93.0
(1,490)	2:8:B:U:C3'	2:8:B:U:C1'	2:8:B:U:H2'	2:8:B:U:O2'	11	92.98
(1,465)	2:3:B:G:C3'	2:3:B:G:C1'	2:3:B:G:H2'	2:3:B:G:O2'	12	92.97
(1,510)	2:12:B:U:C3'	2:12:B:U:C1'	2:12:B:U:H2'	2:12:B:U:O2'	1	92.96
(1,500)	2:10:B:A:C3'	2:10:B:A:C1'	2:10:B:A:H2'	2:10:B:A:O2'	11	92.95
(1,465)	2:3:B:G:C3'	2:3:B:G:C1'	2:3:B:G:H2'	2:3:B:G:O2'	6	92.95
(1,460)	2:2:B:U:C3'	2:2:B:U:C1'	2:2:B:U:H2'	2:2:B:U:O2'	15	92.95
(1,510)	2:12:B:U:C3'	2:12:B:U:C1'	2:12:B:U:H2'	2:12:B:U:O2'	15	92.94
(1,490)	2:8:B:U:C3'	2:8:B:U:C1'	2:8:B:U:H2'	2:8:B:U:O2'	5	92.94
(1,475)	2:5:B:G:C3'	2:5:B:G:C1'	2:5:B:G:H2'	2:5:B:G:O2'	10	92.94
(1,495)	2:9:B:G:C3'	2:9:B:G:C1'	2:9:B:G:H2'	2:9:B:G:O2'	1	92.93
(1,455)	2:1:B:G:C3'	2:1:B:G:C1'	2:1:B:G:H2'	2:1:B:G:O2'	8	92.92
(1,495)	2:9:B:G:C3'	2:9:B:G:C1'	2:9:B:G:H2'	2:9:B:G:O2'	9	92.91
(1,500)	2:10:B:A:C3'	2:10:B:A:C1'	2:10:B:A:H2'	2:10:B:A:O2'	2	92.9
(1,465)	2:3:B:G:C3'	2:3:B:G:C1'	2:3:B:G:H2'	2:3:B:G:O2'	5	92.89
(1,465)	2:3:B:G:C3'	2:3:B:G:C1'	2:3:B:G:H2'	2:3:B:G:O2'	18	92.89
(1,455)	2:1:B:G:C3'	2:1:B:G:C1'	2:1:B:G:H2'	2:1:B:G:O2'	2	92.89
(1,455)	2:1:B:G:C3'	2:1:B:G:C1'	2:1:B:G:H2'	2:1:B:G:O2'	5	92.89
(1,490)	2:8:B:U:C3'	2:8:B:U:C1'	2:8:B:U:H2'	2:8:B:U:O2'	9	92.88
(1,490)	2:8:B:U:C3'	2:8:B:U:C1'	2:8:B:U:H2'	2:8:B:U:O2'	3	92.87
(1,465)	2:3:B:G:C3'	2:3:B:G:C1'	2:3:B:G:H2'	2:3:B:G:O2'	19	92.87
(1,455)	2:1:B:G:C3'	2:1:B:G:C1'	2:1:B:G:H2'	2:1:B:G:O2'	20	92.87
(1,465)	2:3:B:G:C3'	2:3:B:G:C1'	2:3:B:G:H2'	2:3:B:G:O2'	7	92.86
(1,460)	2:2:B:U:C3'	2:2:B:U:C1'	2:2:B:U:H2'	2:2:B:U:O2'	10	92.84
(1,465)	2:3:B:G:C3'	2:3:B:G:C1'	2:3:B:G:H2'	2:3:B:G:O2'	14	92.83
(1,455)	2:1:B:G:C3'	2:1:B:G:C1'	2:1:B:G:H2'	2:1:B:G:O2'	9	92.83
(1,455)	2:1:B:G:C3'	2:1:B:G:C1'	2:1:B:G:H2'	2:1:B:G:O2'	17	92.83
(1,455)	2:1:B:G:C3'	2:1:B:G:C1'	2:1:B:G:H2'	2:1:B:G:O2'	14	92.82
(1,455)	2:1:B:G:C3'	2:1:B:G:C1'	2:1:B:G:H2'	2:1:B:G:O2'	15	92.8
(1,455)	2:1:B:G:C3'	2:1:B:G:C1'	2:1:B:G:H2'	2:1:B:G:O2'	19	92.76
(1,455)	2:1:B:G:C3'	2:1:B:G:C1'	2:1:B:G:H2'	2:1:B:G:O2'	18	92.75
(1,465)	2:3:B:G:C3'	2:3:B:G:C1'	2:3:B:G:H2'	2:3:B:G:O2'	2	92.74
(1,495)	2:9:B:G:C3'	2:9:B:G:C1'	2:9:B:G:H2'	2:9:B:G:O2'	14	92.73
(1,465)	2:3:B:G:C3'	2:3:B:G:C1'	2:3:B:G:H2'	2:3:B:G:O2'	4	92.72
(1,465)	2:3:B:G:C3'	2:3:B:G:C1'	2:3:B:G:H2'	2:3:B:G:O2'	3	92.71
(1,465)	2:3:B:G:C3'	2:3:B:G:C1'	2:3:B:G:H2'	2:3:B:G:O2'	20	92.7
(1,480)	2:6:B:A:C3'	2:6:B:A:C1'	2:6:B:A:H2'	2:6:B:A:O2'	12	92.66
(1,455)	2:1:B:G:C3'	2:1:B:G:C1'	2:1:B:G:H2'	2:1:B:G:O2'	11	92.65
(1,455)	2:1:B:G:C3'	2:1:B:G:C1'	2:1:B:G:H2'	2:1:B:G:O2'	6	92.64
(1,500)	2:10:B:A:C3'	2:10:B:A:C1'	2:10:B:A:H2'	2:10:B:A:O2'	10	92.63

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,465)	2:3:B:G:C3'	2:3:B:G:C1'	2:3:B:G:H2'	2:3:B:G:O2'	8	92.62
(1,465)	2:3:B:G:C3'	2:3:B:G:C1'	2:3:B:G:H2'	2:3:B:G:O2'	15	92.61
(1,465)	2:3:B:G:C3'	2:3:B:G:C1'	2:3:B:G:H2'	2:3:B:G:O2'	9	92.56
(1,465)	2:3:B:G:C3'	2:3:B:G:C1'	2:3:B:G:H2'	2:3:B:G:O2'	11	92.55
(1,465)	2:3:B:G:C3'	2:3:B:G:C1'	2:3:B:G:H2'	2:3:B:G:O2'	17	92.55
(1,455)	2:1:B:G:C3'	2:1:B:G:C1'	2:1:B:G:H2'	2:1:B:G:O2'	10	92.55
(1,500)	2:10:B:A:C3'	2:10:B:A:C1'	2:10:B:A:H2'	2:10:B:A:O2'	3	92.48
(1,475)	2:5:B:G:C3'	2:5:B:G:C1'	2:5:B:G:H2'	2:5:B:G:O2'	2	92.47
(1,475)	2:5:B:G:C3'	2:5:B:G:C1'	2:5:B:G:H2'	2:5:B:G:O2'	8	92.36
(1,475)	2:5:B:G:C3'	2:5:B:G:C1'	2:5:B:G:H2'	2:5:B:G:O2'	11	92.36
(1,475)	2:5:B:G:C3'	2:5:B:G:C1'	2:5:B:G:H2'	2:5:B:G:O2'	6	92.34
(1,480)	2:6:B:A:C3'	2:6:B:A:C1'	2:6:B:A:H2'	2:6:B:A:O2'	15	92.29
(1,475)	2:5:B:G:C3'	2:5:B:G:C1'	2:5:B:G:H2'	2:5:B:G:O2'	13	92.25
(1,475)	2:5:B:G:C3'	2:5:B:G:C1'	2:5:B:G:H2'	2:5:B:G:O2'	1	92.21
(1,475)	2:5:B:G:C3'	2:5:B:G:C1'	2:5:B:G:H2'	2:5:B:G:O2'	7	92.17
(1,495)	2:9:B:G:C3'	2:9:B:G:C1'	2:9:B:G:H2'	2:9:B:G:O2'	17	92.09
(1,495)	2:9:B:G:C3'	2:9:B:G:C1'	2:9:B:G:H2'	2:9:B:G:O2'	8	92.05
(1,460)	2:2:B:U:C3'	2:2:B:U:C1'	2:2:B:U:H2'	2:2:B:U:O2'	13	92.0
(1,495)	2:9:B:G:C3'	2:9:B:G:C1'	2:9:B:G:H2'	2:9:B:G:O2'	15	91.76
(1,475)	2:5:B:G:C3'	2:5:B:G:C1'	2:5:B:G:H2'	2:5:B:G:O2'	14	91.67
(1,465)	2:3:B:G:C3'	2:3:B:G:C1'	2:3:B:G:H2'	2:3:B:G:O2'	16	91.54
(1,475)	2:5:B:G:C3'	2:5:B:G:C1'	2:5:B:G:H2'	2:5:B:G:O2'	12	91.27
(1,346)	1:225:A:PRO:CB	1:225:A:PRO:CD	1:225:A:PRO:HG2	1:225:A:PRO:HG3	14	63.19
(1,346)	1:225:A:PRO:CB	1:225:A:PRO:CD	1:225:A:PRO:HG2	1:225:A:PRO:HG3	13	63.17
(1,346)	1:225:A:PRO:CB	1:225:A:PRO:CD	1:225:A:PRO:HG2	1:225:A:PRO:HG3	16	63.1
(1,346)	1:225:A:PRO:CB	1:225:A:PRO:CD	1:225:A:PRO:HG2	1:225:A:PRO:HG3	7	63.09
(1,346)	1:225:A:PRO:CB	1:225:A:PRO:CD	1:225:A:PRO:HG2	1:225:A:PRO:HG3	8	63.04
(1,346)	1:225:A:PRO:CB	1:225:A:PRO:CD	1:225:A:PRO:HG2	1:225:A:PRO:HG3	1	63.02
(1,346)	1:225:A:PRO:CB	1:225:A:PRO:CD	1:225:A:PRO:HG2	1:225:A:PRO:HG3	5	63.0
(1,346)	1:225:A:PRO:CB	1:225:A:PRO:CD	1:225:A:PRO:HG2	1:225:A:PRO:HG3	4	62.99
(1,346)	1:225:A:PRO:CB	1:225:A:PRO:CD	1:225:A:PRO:HG2	1:225:A:PRO:HG3	6	62.97
(1,346)	1:225:A:PRO:CB	1:225:A:PRO:CD	1:225:A:PRO:HG2	1:225:A:PRO:HG3	11	62.97
(1,346)	1:225:A:PRO:CB	1:225:A:PRO:CD	1:225:A:PRO:HG2	1:225:A:PRO:HG3	15	62.97
(1,346)	1:225:A:PRO:CB	1:225:A:PRO:CD	1:225:A:PRO:HG2	1:225:A:PRO:HG3	3	62.96
(1,346)	1:225:A:PRO:CB	1:225:A:PRO:CD	1:225:A:PRO:HG2	1:225:A:PRO:HG3	20	62.93
(1,346)	1:225:A:PRO:CB	1:225:A:PRO:CD	1:225:A:PRO:HG2	1:225:A:PRO:HG3	2	62.91
(1,346)	1:225:A:PRO:CB	1:225:A:PRO:CD	1:225:A:PRO:HG2	1:225:A:PRO:HG3	12	62.91
(1,346)	1:225:A:PRO:CB	1:225:A:PRO:CD	1:225:A:PRO:HG2	1:225:A:PRO:HG3	17	62.9
(1,346)	1:225:A:PRO:CB	1:225:A:PRO:CD	1:225:A:PRO:HG2	1:225:A:PRO:HG3	10	62.87
(1,346)	1:225:A:PRO:CB	1:225:A:PRO:CD	1:225:A:PRO:HG2	1:225:A:PRO:HG3	18	62.86
(1,346)	1:225:A:PRO:CB	1:225:A:PRO:CD	1:225:A:PRO:HG2	1:225:A:PRO:HG3	19	62.85
(1,346)	1:225:A:PRO:CB	1:225:A:PRO:CD	1:225:A:PRO:HG2	1:225:A:PRO:HG3	9	62.72
(1,347)	1:225:A:PRO:CG	1:225:A:PRO:N	1:225:A:PRO:HD2	1:225:A:PRO:HD3	9	62.67
(1,348)	1:225:A:PRO:N	1:225:A:PRO:C	1:225:A:PRO:HA	1:225:A:PRO:CB	5	62.61
(1,348)	1:225:A:PRO:N	1:225:A:PRO:C	1:225:A:PRO:HA	1:225:A:PRO:CB	6	62.61
(1,347)	1:225:A:PRO:CG	1:225:A:PRO:N	1:225:A:PRO:HD2	1:225:A:PRO:HD3	17	62.54
(1,347)	1:225:A:PRO:CG	1:225:A:PRO:N	1:225:A:PRO:HD2	1:225:A:PRO:HD3	12	62.53
(1,348)	1:225:A:PRO:N	1:225:A:PRO:C	1:225:A:PRO:HA	1:225:A:PRO:CB	8	62.51
(1,348)	1:225:A:PRO:N	1:225:A:PRO:C	1:225:A:PRO:HA	1:225:A:PRO:CB	17	62.51
(1,347)	1:225:A:PRO:CG	1:225:A:PRO:N	1:225:A:PRO:HD2	1:225:A:PRO:HD3	10	62.51
(1,347)	1:225:A:PRO:CG	1:225:A:PRO:N	1:225:A:PRO:HD2	1:225:A:PRO:HD3	13	62.51

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,347)	1:225:A:PRO:CG	1:225:A:PRO:N	1:225:A:PRO:HD2	1:225:A:PRO:HD3	8	62.49
(1,347)	1:225:A:PRO:CG	1:225:A:PRO:N	1:225:A:PRO:HD2	1:225:A:PRO:HD3	14	62.48
(1,348)	1:225:A:PRO:N	1:225:A:PRO:C	1:225:A:PRO:HA	1:225:A:PRO:CB	16	62.47
(1,347)	1:225:A:PRO:CG	1:225:A:PRO:N	1:225:A:PRO:HD2	1:225:A:PRO:HD3	5	62.47
(1,347)	1:225:A:PRO:CG	1:225:A:PRO:N	1:225:A:PRO:HD2	1:225:A:PRO:HD3	19	62.47
(1,347)	1:225:A:PRO:CG	1:225:A:PRO:N	1:225:A:PRO:HD2	1:225:A:PRO:HD3	1	62.46
(1,347)	1:225:A:PRO:CG	1:225:A:PRO:N	1:225:A:PRO:HD2	1:225:A:PRO:HD3	2	62.45
(1,347)	1:225:A:PRO:CG	1:225:A:PRO:N	1:225:A:PRO:HD2	1:225:A:PRO:HD3	20	62.44
(1,348)	1:225:A:PRO:N	1:225:A:PRO:C	1:225:A:PRO:HA	1:225:A:PRO:CB	9	62.41
(1,347)	1:225:A:PRO:CG	1:225:A:PRO:N	1:225:A:PRO:HD2	1:225:A:PRO:HD3	6	62.4
(1,347)	1:225:A:PRO:CG	1:225:A:PRO:N	1:225:A:PRO:HD2	1:225:A:PRO:HD3	4	62.38
(1,347)	1:225:A:PRO:CG	1:225:A:PRO:N	1:225:A:PRO:HD2	1:225:A:PRO:HD3	11	62.38
(1,347)	1:225:A:PRO:CG	1:225:A:PRO:N	1:225:A:PRO:HD2	1:225:A:PRO:HD3	7	62.36
(1,347)	1:225:A:PRO:CG	1:225:A:PRO:N	1:225:A:PRO:HD2	1:225:A:PRO:HD3	18	62.35
(1,347)	1:225:A:PRO:CG	1:225:A:PRO:N	1:225:A:PRO:HD2	1:225:A:PRO:HD3	3	62.3
(1,347)	1:225:A:PRO:CG	1:225:A:PRO:N	1:225:A:PRO:HD2	1:225:A:PRO:HD3	16	62.27
(1,347)	1:225:A:PRO:CG	1:225:A:PRO:N	1:225:A:PRO:HD2	1:225:A:PRO:HD3	15	62.25
(1,348)	1:225:A:PRO:N	1:225:A:PRO:C	1:225:A:PRO:HA	1:225:A:PRO:CB	19	62.24
(1,348)	1:225:A:PRO:N	1:225:A:PRO:C	1:225:A:PRO:HA	1:225:A:PRO:CB	1	62.1
(1,348)	1:225:A:PRO:N	1:225:A:PRO:C	1:225:A:PRO:HA	1:225:A:PRO:CB	15	62.1
(1,348)	1:225:A:PRO:N	1:225:A:PRO:C	1:225:A:PRO:HA	1:225:A:PRO:CB	2	62.09
(1,348)	1:225:A:PRO:N	1:225:A:PRO:C	1:225:A:PRO:HA	1:225:A:PRO:CB	4	62.08
(1,348)	1:225:A:PRO:N	1:225:A:PRO:C	1:225:A:PRO:HA	1:225:A:PRO:CB	18	62.06
(1,348)	1:225:A:PRO:N	1:225:A:PRO:C	1:225:A:PRO:HA	1:225:A:PRO:CB	20	62.06
(1,348)	1:225:A:PRO:N	1:225:A:PRO:C	1:225:A:PRO:HA	1:225:A:PRO:CB	11	62.04
(1,348)	1:225:A:PRO:N	1:225:A:PRO:C	1:225:A:PRO:HA	1:225:A:PRO:CB	10	61.99
(1,348)	1:225:A:PRO:N	1:225:A:PRO:C	1:225:A:PRO:HA	1:225:A:PRO:CB	3	61.96
(1,348)	1:225:A:PRO:N	1:225:A:PRO:C	1:225:A:PRO:HA	1:225:A:PRO:CB	12	61.95
(1,348)	1:225:A:PRO:N	1:225:A:PRO:C	1:225:A:PRO:HA	1:225:A:PRO:CB	7	61.94
(1,348)	1:225:A:PRO:N	1:225:A:PRO:C	1:225:A:PRO:HA	1:225:A:PRO:CB	14	61.93
(1,348)	1:225:A:PRO:N	1:225:A:PRO:C	1:225:A:PRO:HA	1:225:A:PRO:CB	13	61.91
(1,345)	1:225:A:PRO:CA	1:225:A:PRO:CG	1:225:A:PRO:HB2	1:225:A:PRO:HB3	16	61.88
(1,345)	1:225:A:PRO:CA	1:225:A:PRO:CG	1:225:A:PRO:HB2	1:225:A:PRO:HB3	6	61.73
(1,345)	1:225:A:PRO:CA	1:225:A:PRO:CG	1:225:A:PRO:HB2	1:225:A:PRO:HB3	5	61.58
(1,345)	1:225:A:PRO:CA	1:225:A:PRO:CG	1:225:A:PRO:HB2	1:225:A:PRO:HB3	17	61.58
(1,345)	1:225:A:PRO:CA	1:225:A:PRO:CG	1:225:A:PRO:HB2	1:225:A:PRO:HB3	8	61.54
(1,345)	1:225:A:PRO:CA	1:225:A:PRO:CG	1:225:A:PRO:HB2	1:225:A:PRO:HB3	13	61.42
(1,345)	1:225:A:PRO:CA	1:225:A:PRO:CG	1:225:A:PRO:HB2	1:225:A:PRO:HB3	20	61.35
(1,345)	1:225:A:PRO:CA	1:225:A:PRO:CG	1:225:A:PRO:HB2	1:225:A:PRO:HB3	10	61.16
(1,345)	1:225:A:PRO:CA	1:225:A:PRO:CG	1:225:A:PRO:HB2	1:225:A:PRO:HB3	12	61.15
(1,345)	1:225:A:PRO:CA	1:225:A:PRO:CG	1:225:A:PRO:HB2	1:225:A:PRO:HB3	9	61.12
(1,345)	1:225:A:PRO:CA	1:225:A:PRO:CG	1:225:A:PRO:HB2	1:225:A:PRO:HB3	3	61.11
(1,345)	1:225:A:PRO:CA	1:225:A:PRO:CG	1:225:A:PRO:HB2	1:225:A:PRO:HB3	2	61.1
(1,345)	1:225:A:PRO:CA	1:225:A:PRO:CG	1:225:A:PRO:HB2	1:225:A:PRO:HB3	14	61.1
(1,345)	1:225:A:PRO:CA	1:225:A:PRO:CG	1:225:A:PRO:HB2	1:225:A:PRO:HB3	4	61.07
(1,345)	1:225:A:PRO:CA	1:225:A:PRO:CG	1:225:A:PRO:HB2	1:225:A:PRO:HB3	1	61.06
(1,345)	1:225:A:PRO:CA	1:225:A:PRO:CG	1:225:A:PRO:HB2	1:225:A:PRO:HB3	19	61.06
(1,345)	1:225:A:PRO:CA	1:225:A:PRO:CG	1:225:A:PRO:HB2	1:225:A:PRO:HB3	11	61.01
(1,345)	1:225:A:PRO:CA	1:225:A:PRO:CG	1:225:A:PRO:HB2	1:225:A:PRO:HB3	18	60.95
(1,345)	1:225:A:PRO:CA	1:225:A:PRO:CG	1:225:A:PRO:HB2	1:225:A:PRO:HB3	7	60.85
(1,345)	1:225:A:PRO:CA	1:225:A:PRO:CG	1:225:A:PRO:HB2	1:225:A:PRO:HB3	15	60.77

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,3)	2:9:B:G:O4'	2:9:B:G:C1'	2:9:B:G:N9	2:9:B:G:C4	13	3.31
(1,646)	1:229:A:PHE:CA	1:229:A:PHE:N	1:228:A:ALA:C	1:228:A:ALA:CA	12	2.92
(1,560)	1:143:A:HIS:CA	1:143:A:HIS:N	1:142:A:GLY:C	1:142:A:GLY:CA	7	2.54
(1,561)	1:144:A:SER:CA	1:144:A:SER:N	1:143:A:HIS:C	1:143:A:HIS:CA	9	2.39
(1,664)	1:247:A:ASP:CA	1:247:A:ASP:N	1:246:A:GLU:C	1:246:A:GLU:CA	11	1.69
(1,524)	1:107:A:ILE:CA	1:107:A:ILE:N	1:106:A:LEU:C	1:106:A:LEU:CA	14	1.64
(1,679)	1:262:A:PRO:CA	1:262:A:PRO:N	1:261:A:GLU:C	1:261:A:GLU:CA	13	1.63
(1,523)	1:106:A:LEU:CA	1:106:A:LEU:N	1:105:A:ASP:C	1:105:A:ASP:CA	3	1.54
(1,608)	1:191:A:ARG:CA	1:191:A:ARG:N	1:190:A:SER:C	1:190:A:SER:CA	10	1.43
(1,560)	1:143:A:HIS:CA	1:143:A:HIS:N	1:142:A:GLY:C	1:142:A:GLY:CA	14	1.42
(1,524)	1:107:A:ILE:CA	1:107:A:ILE:N	1:106:A:LEU:C	1:106:A:LEU:CA	12	1.42
(1,561)	1:144:A:SER:CA	1:144:A:SER:N	1:143:A:HIS:C	1:143:A:HIS:CA	5	1.33
(1,680)	1:263:A:LYS:CA	1:263:A:LYS:N	1:262:A:PRO:C	1:262:A:PRO:CA	1	1.05
(1,526)	1:109:A:LEU:CA	1:109:A:LEU:N	1:108:A:VAL:C	1:108:A:VAL:CA	6	1.02