



Full wwPDB NMR Structure Validation Report ⓘ

Jun 3, 2023 – 11:45 PM EDT

PDB ID : 2KM8
BMRB ID : 16425
Title : Interdomain RRM packing contributes to RNA recognition in the rna15, hrp1, anchor RNA 3' processing ternary complex
Authors : Leeper, T.C.; Varani, G.
Deposited on : 2009-07-24

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4.02b-467
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
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) : 2.33

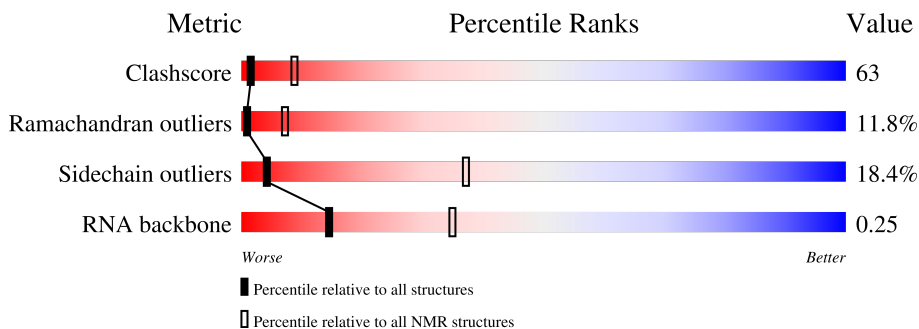
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 25%.

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	158937	12864
Ramachandran outliers	154571	11451
Sidechain outliers	154315	11428
RNA backbone	4643	676

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	13	77% (Green) 23% (Red)
2	B	84	21% (Green) 58% (Yellow) 18% (Orange) 1% (Cyan) 2% (Grey)
3	C	167	31% (Green) 54% (Yellow) 12% (Orange) 1% (Cyan) 2% (Grey)

2 Ensemble composition and analysis

This entry contains 10 models. Model 1 is the overall representative, medoid model (most similar to other models).

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	B:22-B:103, C:158-C:319 (244)	2.27	1

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. No single-model clusters were found.

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

3 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 4375 atoms, of which 2102 are hydrogens and 0 are deuteriums.

- Molecule 1 is a RNA chain called 5'-R(P*UP*AP*UP*AP*UP*AP*UP*AP*AP*UP*AP*AP*U)-3'.

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	P	
1	A	13	414	124	139	47	91	13	0

- Molecule 2 is a protein called mRNA 3'-end-processing protein RNA15.

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
2	B	84	1296	411	640	112	129	4	0

- Molecule 3 is a protein called Nuclear polyadenylated RNA-binding protein 4.


Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
3	C	167	2665	849	1323	232	256	5	0

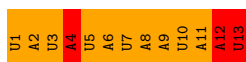
4 Residue-property plots

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.

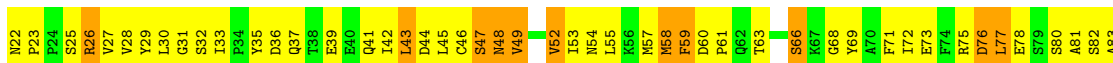
- Molecule 1: 5'-R(P*UP*AP*UP*AP*UP*AP*UP*AP*AP*UP*AP*AP*U)-3'

Chain A:  77% 23%



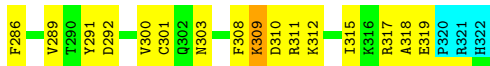
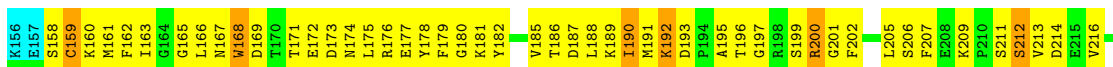
- Molecule 2: mRNA 3'-end-processing protein RNA15

Chain B:  21% 58% 18%



- Molecule 3: Nuclear polyadenylated RNA-binding protein 4

Chain C:  31% 54% 12%



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 (medoid)

- Molecule 1: 5'-R(P*UP*AP*UP*AP*UP*AP*UP*AP*AP*UP*AP*AP*U)-3'

Chain A: 15% 54% 31%



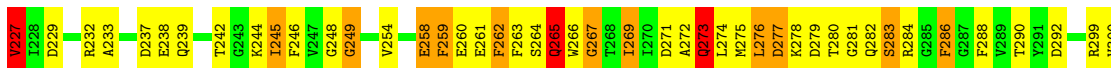
- Molecule 2: mRNA 3'-end-processing protein RNA15

Chain B: 26% 49% 21% ..



- Molecule 3: Nuclear polyadenylated RNA-binding protein 4

Chain C: 37% 46% 12% ..



4.2.2 Score per residue for model 2

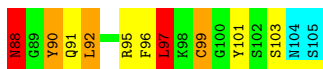
- Molecule 1: 5'-R(P*UP*AP*UP*AP*UP*AP*UP*AP*AP*UP*AP*AP*U)-3'

Chain A: 38% 38% 23%

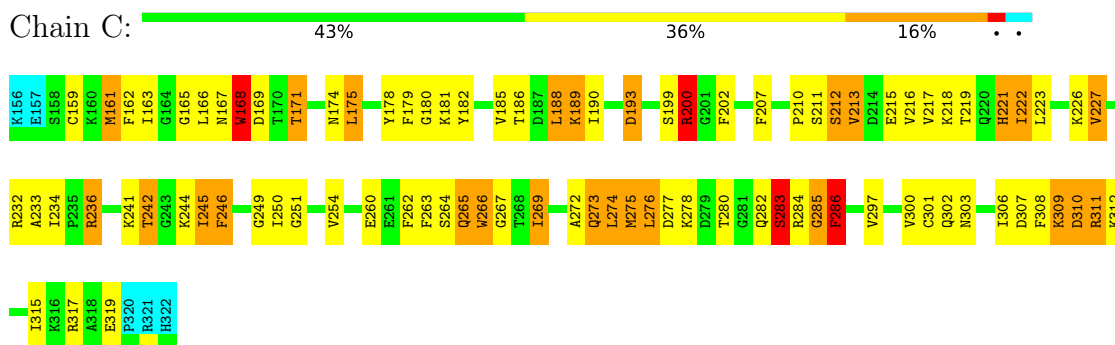


- Molecule 2: mRNA 3'-end-processing protein RNA15

Chain B: 27% 48% 17% 6% .

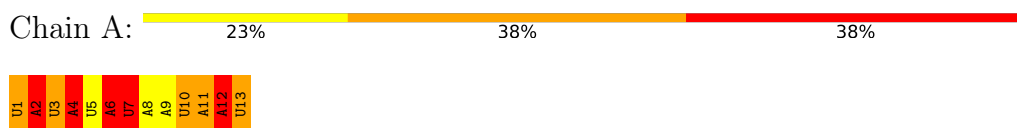


- Molecule 3: Nuclear polyadenylated RNA-binding protein 4

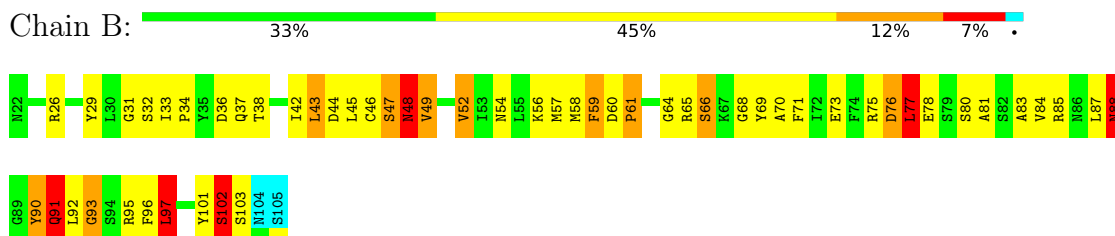


4.2.3 Score per residue for model 3

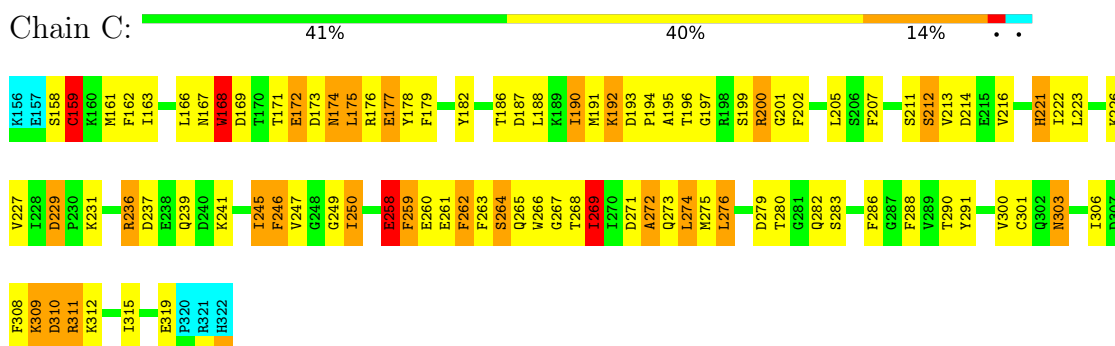
- Molecule 1: 5'-R(P*UP*AP*UP*AP*UP*AP*UP*AP*AP*UP*AP*AP*U)-3'



- Molecule 2: mRNA 3'-end-processing protein RNA15



- Molecule 3: Nuclear polyadenylated RNA-binding protein 4



4.2.4 Score per residue for model 4

- Molecule 1: 5'-R(P*UP*AP*UP*AP*UP*AP*UP*AP*AP*UP*AP*AP*U)-3'

Chain A: 23% 38% 38%



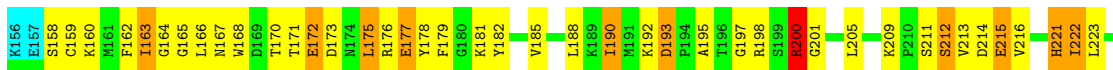
- Molecule 2: mRNA 3'-end-processing protein RNA15

Chain B: 29% 49% 19% ..



- Molecule 3: Nuclear polyadenylated RNA-binding protein 4

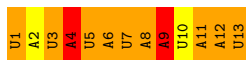
Chain C: 41% 40% 14% ..



4.2.5 Score per residue for model 5

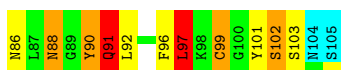
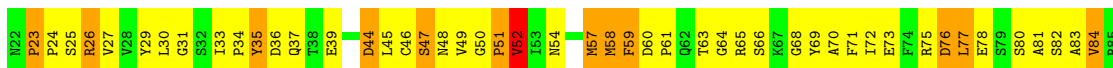
- Molecule 1: 5'-R(P*UP*AP*UP*AP*UP*AP*UP*AP*AP*UP*AP*AP*U)-3'

Chain A: 15% 69% 15%



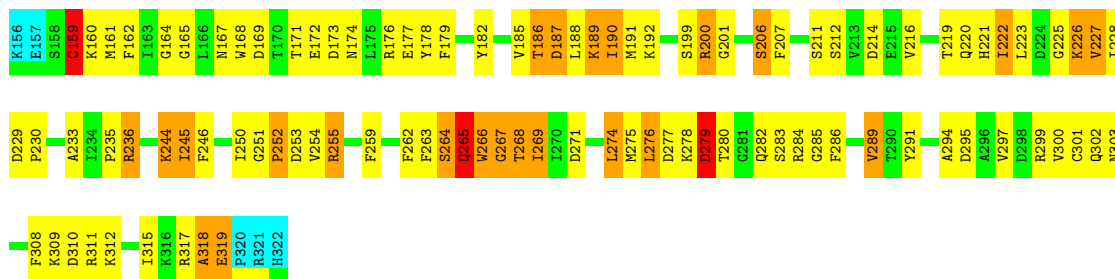
- Molecule 2: mRNA 3'-end-processing protein RNA15

Chain B: 27% 48% 19% ..



- Molecule 3: Nuclear polyadenylated RNA-binding protein 4

Chain C: 38% 43% 14% ..

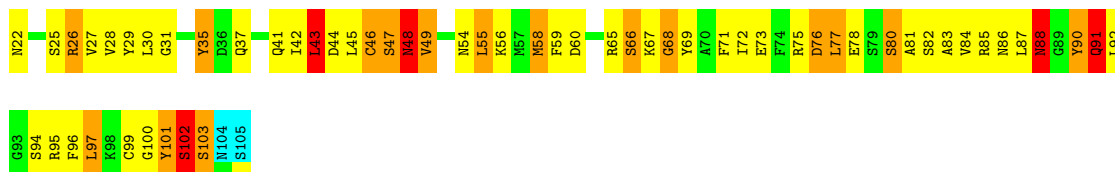


4.2.6 Score per residue for model 6

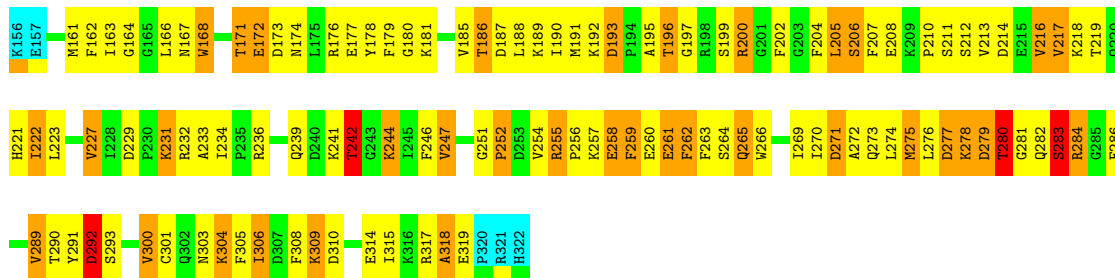
- Molecule 1: 5'-R(P*UP*AP*UP*AP*UP*AP*UP*AP*AP*UP*AP*AP*U)-3'



- Molecule 2: mRNA 3'-end-processing protein RNA15

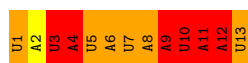


- Molecule 3: Nuclear polyadenylated RNA-binding protein 4

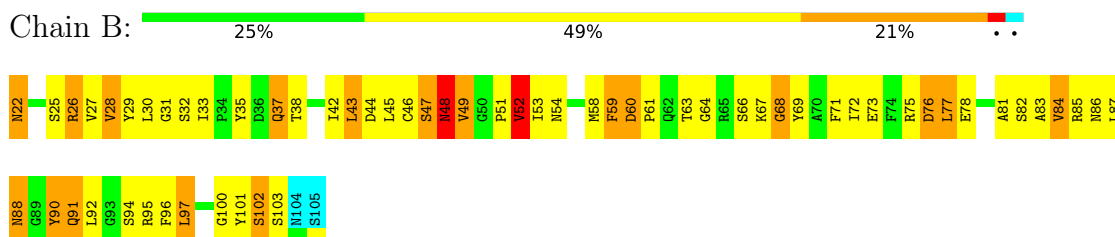


4.2.7 Score per residue for model 7

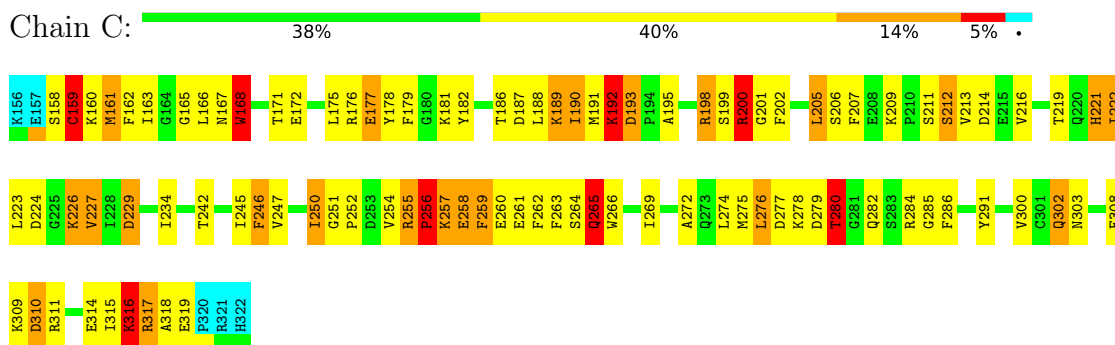
- Molecule 1: 5'-R(P*UP*AP*UP*AP*UP*AP*UP*AP*AP*UP*AP*AP*U)-3'



- Molecule 2: mRNA 3'-end-processing protein RNA15



- Molecule 3: Nuclear polyadenylated RNA-binding protein 4

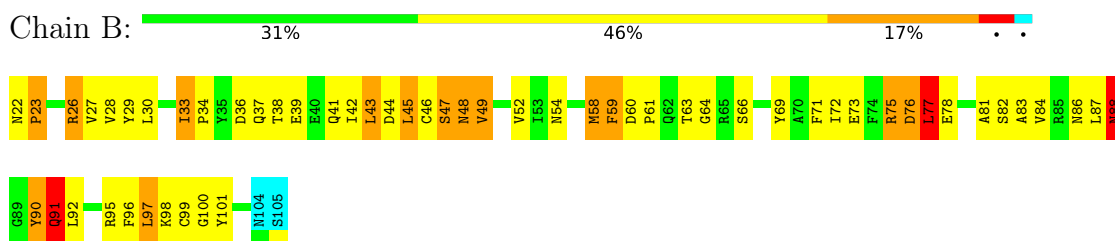


4.2.8 Score per residue for model 8

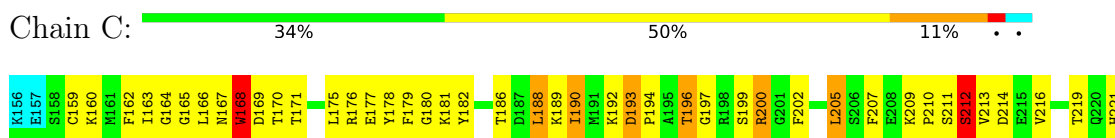
- Molecule 1: 5'-R(P*UP*AP*UP*AP*UP*AP*UP*AP*AP*UP*AP*AP*U)-3'

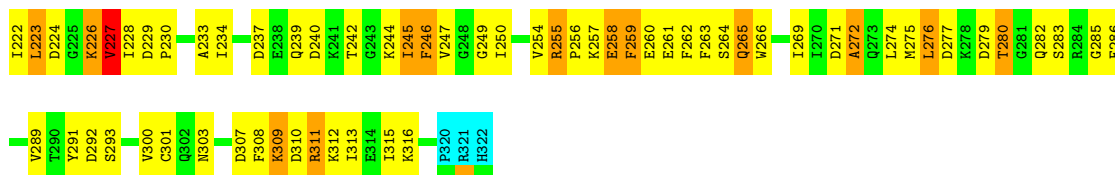


- Molecule 2: mRNA 3'-end-processing protein RNA15



- Molecule 3: Nuclear polyadenylated RNA-binding protein 4



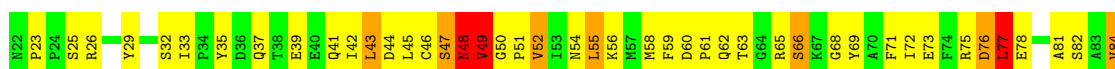


4.2.9 Score per residue for model 9

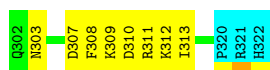
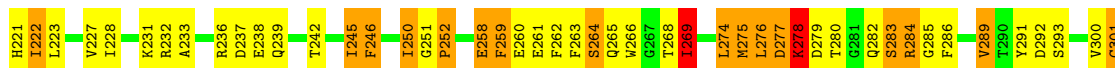
- Molecule 1: 5'-R(P*UP*AP*UP*AP*UP*AP*UP*AP*AP*UP*AP*AP*U)-3'



- Molecule 2: mRNA 3'-end-processing protein RNA15



- Molecule 3: Nuclear polyadenylated RNA-binding protein 4

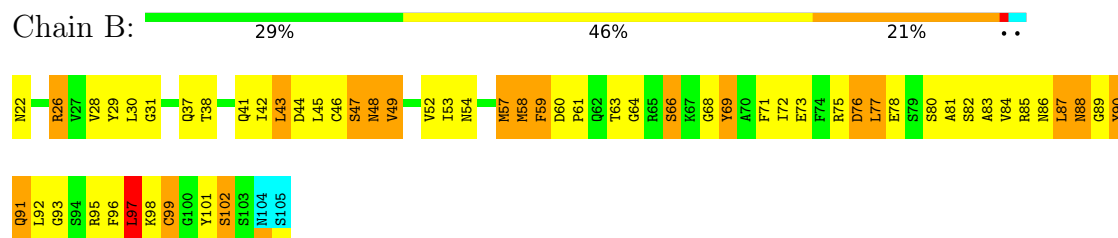


4.2.10 Score per residue for model 10

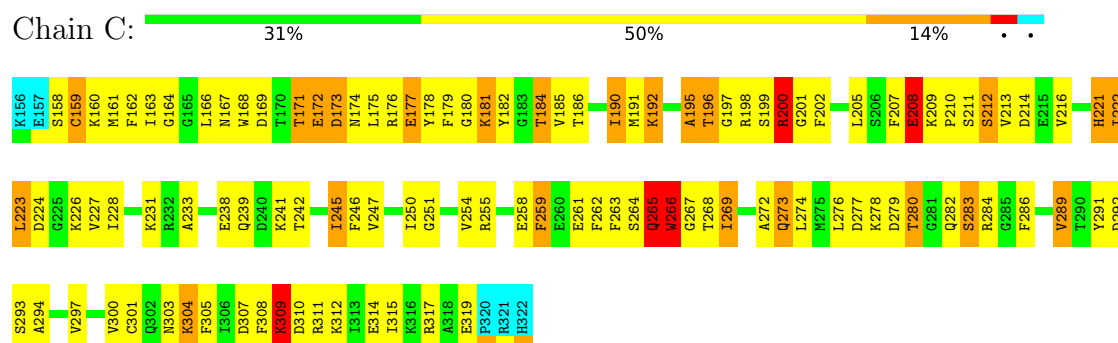
- Molecule 1: 5'-R(P*UP*AP*UP*AP*UP*AP*UP*AP*AP*UP*AP*AP*U)-3'



- Molecule 2: mRNA 3'-end-processing protein RNA15



• Molecule 3: Nuclear polyadenylated RNA-binding protein 4



5 Refinement protocol and experimental data overview

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

Of the 100 calculated structures, 10 were deposited, based on the following criterion: *structures with the lowest energy*.

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

Software name	Classification	Version
X-PLOR NIH	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	1
Total number of shifts	922
Number of shifts mapped to atoms	922
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	25%

6 Model quality i

6.1 Standard geometry i

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#Z>5	RMSZ	#Z>5
1	A	1.12±0.10	0±1/307 (0.1± 0.4%)	1.65±0.05	11±2/473 (2.2± 0.4%)
2	B	1.05±0.02	0±0/655 (0.0± 0.0%)	0.90±0.02	0±0/886 (0.0± 0.0%)
3	C	1.05±0.00	0±0/1322 (0.0± 0.0%)	0.89±0.00	0±0/1776 (0.0± 0.0%)
All	All	1.06	5/22840 (0.0%)	1.04	106/31350 (0.3%)

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

Mol	Chain	Chirality	Planarity
1	A	0.0±0.0	0.1±0.3
All	All	0	1

All unique bond 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(Å)	Ideal(Å)	Models	
								Worst	Total
1	A	11	A	O3'-P	8.23	1.71	1.61	7	1
1	A	12	A	P-O5'	6.47	1.66	1.59	7	1
1	A	11	A	N9-C4	-6.31	1.34	1.37	7	1
1	A	11	A	C3'-O3'	5.52	1.49	1.42	7	1
2	B	68	GLY	N-CA	5.20	1.53	1.46	7	1

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

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	9	A	O4'-C1'-N9	10.28	116.43	108.20	5	7
1	A	12	A	O4'-C1'-N9	7.37	114.10	108.20	7	1
1	A	9	A	C1'-O4'-C4'	-6.79	104.46	109.90	5	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	8	A	C5'-C4'-C3'	-6.77	105.17	116.00	10	6
1	A	3	U	O4'-C1'-N1	6.53	113.42	108.20	2	1
1	A	11	A	C5'-C4'-C3'	-6.41	105.75	116.00	2	8
1	A	4	A	O4'-C1'-N9	6.41	113.33	108.20	6	1
1	A	3	U	C5'-C4'-C3'	-6.32	105.89	116.00	6	5
1	A	12	A	C5'-C4'-C3'	-6.22	106.05	116.00	5	9
1	A	7	U	C5'-C4'-C3'	-6.14	106.18	116.00	2	9
1	A	2	A	O4'-C1'-N9	6.06	113.05	108.20	6	2
1	A	9	A	C5'-C4'-C3'	-5.97	106.45	116.00	5	2
1	A	10	U	C3'-C2'-C1'	5.90	106.22	101.50	8	3
1	A	4	A	C5'-C4'-C3'	-5.86	106.62	116.00	1	8
1	A	11	A	P-O3'-C3'	5.72	126.57	119.70	7	1
1	A	6	A	C5'-C4'-C3'	-5.58	107.07	116.00	6	2
1	A	8	A	C3'-C2'-C1'	5.58	105.96	101.50	9	3
1	A	10	U	C5'-C4'-C3'	-5.49	107.21	116.00	10	4
1	A	2	A	C5'-C4'-C3'	-5.46	107.26	116.00	10	5
1	A	13	U	C5'-C4'-C3'	-5.35	107.44	116.00	4	9
1	A	1	U	C5'-C4'-C3'	-5.33	107.48	116.00	10	10
1	A	5	U	C3'-C2'-C1'	5.25	105.70	101.50	5	3
1	A	6	A	O4'-C1'-N9	5.22	112.38	108.20	8	3
1	A	11	A	O4'-C1'-N9	5.14	112.31	108.20	4	2

There are no chirality outliers.

All unique planar outliers are listed below.

Mol	Chain	Res	Type	Group	Models (Total)
1	A	4	A	Sidechain	1

6.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	275	139	138	98±23
2	B	641	629	626	99±25
3	C	1295	1274	1273	134±14
All	All	22110	20420	20370	2660

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 63.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:11:A:H3'	2:B:69:TYR:N	1.31	1.37	7	1
1:A:6:A:H4'	1:A:7:U:H5'	1.13	1.17	9	7
1:A:12:A:H5'	2:B:67:LYS:O	1.09	1.47	7	1
1:A:12:A:C5'	2:B:67:LYS:O	1.07	2.00	7	1
1:A:10:U:H5'	2:B:71:PHE:CE1	1.03	1.86	5	4
1:A:12:A:P	2:B:58:MET:O	1.03	2.17	7	1
1:A:12:A:O5'	2:B:68:GLY:HA2	1.02	1.54	7	1
2:B:49:VAL:HG11	2:B:83:ALA:HB2	0.98	1.29	5	4
1:A:11:A:H4'	2:B:58:MET:C	0.97	1.79	7	1
1:A:3:U:O2'	1:A:4:A:H5'	0.96	1.60	2	1
2:B:90:TYR:CE1	2:B:97:LEU:HD11	0.95	1.96	5	2
1:A:12:A:HO2'	1:A:13:U:H6	0.95	0.98	3	4
3:C:188:LEU:HD12	3:C:189:LYS:N	0.94	1.76	8	2
1:A:12:A:P	2:B:68:GLY:HA2	0.94	2.03	7	1
1:A:6:A:O4'	1:A:7:U:H5''	0.94	1.62	3	2
1:A:6:A:H4'	1:A:7:U:C5'	0.93	1.94	5	8
1:A:6:A:C4'	1:A:7:U:H5'	0.92	1.94	4	7
2:B:47:SER:O	2:B:49:VAL:N	0.92	2.02	9	7
1:A:11:A:H4'	2:B:58:MET:O	0.92	1.63	7	1
1:A:11:A:H5'	2:B:69:TYR:O	0.91	1.64	7	1
1:A:9:A:H5''	2:B:69:TYR:OH	0.90	1.65	6	3
3:C:179:PHE:O	3:C:181:LYS:N	0.89	2.05	9	5
1:A:11:A:O2'	2:B:68:GLY:N	0.89	2.05	7	1
1:A:11:A:H3'	2:B:69:TYR:H	0.88	1.28	7	1
3:C:269:ILE:HG23	3:C:291:TYR:CE1	0.88	2.03	3	2
1:A:2:A:HO2'	1:A:3:U:H6	0.88	0.97	2	3
1:A:11:A:C3'	2:B:69:TYR:N	0.87	2.32	7	1
1:A:9:A:HO2'	1:A:10:U:H6	0.87	1.07	2	1
1:A:11:A:HO2'	1:A:12:A:H8	0.87	0.92	10	4
3:C:276:LEU:HD22	3:C:276:LEU:H	0.87	1.30	7	1
2:B:80:SER:O	2:B:84:VAL:HG22	0.86	1.70	10	1
1:A:6:A:C4'	1:A:7:U:H5''	0.86	2.01	8	2
2:B:97:LEU:HD12	2:B:97:LEU:N	0.85	1.86	5	4
2:B:72:ILE:HD12	2:B:72:ILE:N	0.85	1.86	5	6
1:A:9:A:H2'	1:A:10:U:C6	0.85	2.05	3	1
3:C:274:LEU:O	3:C:274:LEU:HD23	0.85	1.70	5	3
1:A:12:A:C8	2:B:68:GLY:N	0.85	2.44	7	1
1:A:1:U:HO2'	1:A:2:A:H8	0.85	0.90	8	5

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:9:A:H5''	2:B:69:TYR:CZ	0.85	2.06	2	2
3:C:245:ILE:HD13	3:C:245:ILE:O	0.84	1.71	9	1
1:A:10:U:H5''	2:B:69:TYR:CZ	0.84	2.07	10	1
1:A:8:A:H4'	2:B:95:ARG:NH2	0.84	1.88	10	2
1:A:4:A:C6	3:C:168:TRP:CD1	0.84	2.65	6	1
1:A:9:A:H4'	2:B:69:TYR:CE1	0.83	2.08	8	4
1:A:2:A:H4'	3:C:286:PHE:CD1	0.83	2.08	10	2
3:C:226:LYS:O	3:C:227:VAL:HG13	0.83	1.74	8	2
1:A:10:U:H5'	2:B:71:PHE:CZ	0.83	2.07	7	6
1:A:7:U:H4'	3:C:202:PHE:CZ	0.82	2.09	8	3
1:A:11:A:C4'	2:B:58:MET:O	0.82	2.28	7	1
1:A:12:A:H5''	2:B:35:TYR:OH	0.81	1.75	7	1
3:C:226:LYS:O	3:C:227:VAL:HG23	0.81	1.76	5	1
1:A:9:A:H1'	2:B:71:PHE:CZ	0.81	2.11	9	2
1:A:9:A:N3	2:B:71:PHE:CZ	0.80	2.50	8	8
1:A:10:U:H5'	2:B:71:PHE:CE2	0.80	2.11	7	1
3:C:276:LEU:HD12	3:C:276:LEU:H	0.80	1.34	3	1
1:A:10:U:H4'	2:B:71:PHE:CE2	0.80	2.12	5	3
1:A:9:A:H5''	2:B:69:TYR:CE2	0.80	2.10	9	1
3:C:210:PRO:O	3:C:213:VAL:HG22	0.80	1.75	6	2
2:B:90:TYR:CD1	2:B:97:LEU:HD11	0.79	2.12	5	2
3:C:221:HIS:C	3:C:222:ILE:HD13	0.79	1.98	4	3
3:C:276:LEU:HD12	3:C:276:LEU:N	0.79	1.92	3	1
3:C:226:LYS:NZ	3:C:280:THR:HG23	0.79	1.91	5	1
1:A:6:A:H5'	1:A:8:A:OP2	0.79	1.76	3	2
3:C:212:SER:O	3:C:216:VAL:HG23	0.79	1.78	3	8
1:A:11:A:O2'	1:A:12:A:H8	0.78	1.62	4	6
2:B:77:LEU:O	2:B:81:ALA:HB2	0.78	1.78	9	10
1:A:5:U:H1'	3:C:201:GLY:O	0.78	1.77	7	1
3:C:222:ILE:HD13	3:C:222:ILE:N	0.78	1.94	4	2
3:C:309:LYS:O	3:C:311:ARG:N	0.78	2.16	3	2
1:A:9:A:H4'	2:B:69:TYR:CE2	0.78	2.14	1	2
1:A:6:A:H1'	1:A:7:U:OP2	0.78	1.79	3	3
1:A:9:A:H2'	1:A:10:U:C5	0.78	2.14	3	2
1:A:2:A:H4'	3:C:286:PHE:CE1	0.77	2.14	5	2
1:A:10:U:H2'	1:A:11:A:H8	0.77	1.39	10	4
1:A:10:U:OP2	2:B:69:TYR:CG	0.77	2.37	5	2
1:A:1:U:O2'	1:A:2:A:H8	0.77	1.63	8	5
1:A:10:U:H6	1:A:10:U:O5'	0.77	1.62	6	3
3:C:303:ASN:ND2	3:C:303:ASN:O	0.77	2.18	3	1
1:A:9:A:N3	2:B:71:PHE:CE1	0.76	2.53	5	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:7:U:N3	3:C:202:PHE:CG	0.76	2.54	6	1
3:C:221:HIS:H	3:C:221:HIS:CD2	0.76	1.96	10	1
2:B:45:LEU:HD12	2:B:45:LEU:O	0.76	1.81	8	1
1:A:5:U:C2	3:C:162:PHE:CE2	0.75	2.74	6	4
3:C:163:ILE:HD11	3:C:205:LEU:HD12	0.75	1.58	10	1
3:C:276:LEU:HD13	3:C:276:LEU:N	0.75	1.97	7	1
1:A:12:A:H8	2:B:68:GLY:N	0.75	1.79	7	1
3:C:275:MET:C	3:C:276:LEU:HD13	0.75	2.02	7	1
3:C:308:PHE:O	3:C:309:LYS:O	0.74	2.04	2	2
3:C:258:GLU:O	3:C:261:GLU:N	0.74	2.20	8	8
1:A:6:A:C5	3:C:162:PHE:CE2	0.74	2.75	6	7
3:C:163:ILE:HG22	3:C:166:LEU:HD21	0.74	1.58	2	1
1:A:10:U:HO2'	1:A:11:A:H8	0.74	1.19	8	2
1:A:10:U:H4'	2:B:71:PHE:CZ	0.74	2.17	6	3
1:A:9:A:C2	2:B:29:TYR:CZ	0.74	2.76	5	9
1:A:10:U:H2'	1:A:11:A:C8	0.74	2.17	10	7
1:A:9:A:C4	2:B:29:TYR:CE2	0.73	2.76	4	1
1:A:9:A:H4'	2:B:69:TYR:CD1	0.73	2.17	2	1
1:A:4:A:C4	3:C:168:TRP:CZ2	0.73	2.77	1	3
1:A:9:A:C2	2:B:71:PHE:CE2	0.73	2.76	4	4
1:A:9:A:C2	2:B:29:TYR:CE1	0.72	2.77	6	8
3:C:276:LEU:HD22	3:C:276:LEU:N	0.72	1.98	7	1
1:A:10:U:O2'	1:A:11:A:H8	0.72	1.68	8	2
1:A:9:A:N1	2:B:29:TYR:CZ	0.72	2.58	10	5
3:C:188:LEU:HD12	3:C:188:LEU:O	0.72	1.84	4	1
1:A:12:A:C8	2:B:67:LYS:N	0.72	2.57	7	1
1:A:4:A:C6	3:C:168:TRP:CZ3	0.72	2.77	4	9
1:A:3:U:H5'	3:C:286:PHE:CZ	0.72	2.20	9	6
1:A:6:A:C6	3:C:162:PHE:CD2	0.72	2.78	8	7
1:A:2:A:C4	3:C:246:PHE:CE2	0.72	2.77	4	3
1:A:11:A:O3'	2:B:59:PHE:HA	0.72	1.85	7	1
2:B:43:LEU:HD13	2:B:43:LEU:O	0.72	1.85	9	1
1:A:11:A:H1'	2:B:66:SER:O	0.71	1.85	7	1
1:A:10:U:H5''	2:B:60:ASP:CG	0.71	2.06	4	1
1:A:6:A:C6	3:C:162:PHE:CG	0.71	2.79	7	5
2:B:69:TYR:OH	2:B:71:PHE:CZ	0.71	2.43	10	1
1:A:10:U:H1'	2:B:58:MET:CE	0.71	2.15	4	1
2:B:87:LEU:O	2:B:97:LEU:HD11	0.71	1.85	9	1
1:A:10:U:C5'	2:B:71:PHE:CZ	0.71	2.73	7	4
1:A:12:A:O5'	2:B:67:LYS:O	0.71	2.09	7	1
1:A:6:A:H5''	1:A:8:A:C8	0.71	2.21	3	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:10:U:H5''	2:B:69:TYR:OH	0.71	1.84	10	1
3:C:221:HIS:N	3:C:221:HIS:CD2	0.70	2.59	1	5
1:A:5:U:N3	3:C:162:PHE:CD2	0.70	2.59	6	2
1:A:5:U:C2	3:C:162:PHE:CD2	0.70	2.79	2	2
1:A:5:U:H5'	3:C:200:ARG:CD	0.70	2.16	3	1
1:A:12:A:O2'	1:A:13:U:H6	0.70	1.68	3	4
1:A:4:A:N1	3:C:168:TRP:NE1	0.70	2.38	6	1
1:A:12:A:P	2:B:67:LYS:O	0.70	2.49	7	1
1:A:2:A:H4'	3:C:286:PHE:CG	0.70	2.21	10	1
1:A:6:A:N7	3:C:162:PHE:CZ	0.70	2.60	7	2
1:A:10:U:C5	2:B:71:PHE:CZ	0.70	2.80	1	1
3:C:188:LEU:N	3:C:188:LEU:HD23	0.70	2.02	6	2
1:A:12:A:OP2	2:B:69:TYR:N	0.70	2.25	7	1
1:A:12:A:OP1	2:B:59:PHE:CD2	0.70	2.45	7	1
1:A:7:U:C2	3:C:202:PHE:CE2	0.70	2.80	6	1
3:C:181:LYS:NZ	3:C:182:TYR:CZ	0.70	2.60	7	1
3:C:216:VAL:O	3:C:221:HIS:NE2	0.70	2.25	8	2
2:B:46:CYS:O	2:B:48:ASN:N	0.69	2.24	7	10
2:B:38:THR:O	2:B:42:ILE:HD13	0.69	1.88	10	1
3:C:221:HIS:O	3:C:222:ILE:HD13	0.69	1.87	2	2
1:A:9:A:C2	2:B:29:TYR:CE2	0.69	2.80	9	4
3:C:161:MET:SD	3:C:162:PHE:N	0.69	2.65	7	1
1:A:6:A:C8	3:C:162:PHE:CZ	0.69	2.81	1	5
3:C:205:LEU:HD22	3:C:207:PHE:CE1	0.69	2.22	6	1
1:A:11:A:H3'	2:B:68:GLY:C	0.69	2.08	7	1
2:B:83:ALA:O	2:B:87:LEU:N	0.69	2.26	4	7
1:A:2:A:C6	3:C:246:PHE:CD2	0.69	2.81	2	1
1:A:5:U:H5'	3:C:200:ARG:NE	0.69	2.01	3	1
1:A:5:U:N3	3:C:201:GLY:O	0.69	2.25	5	2
3:C:254:VAL:O	3:C:255:ARG:O	0.69	2.11	8	1
1:A:6:A:C4	3:C:162:PHE:CZ	0.69	2.80	2	4
3:C:226:LYS:NZ	3:C:278:LYS:NZ	0.69	2.40	2	1
1:A:5:U:O4	3:C:165:GLY:N	0.69	2.26	5	5
3:C:226:LYS:HZ1	3:C:279:ASP:N	0.69	1.85	5	2
1:A:12:A:H5''	2:B:35:TYR:CE1	0.69	2.22	7	1
3:C:161:MET:SD	3:C:163:ILE:N	0.69	2.65	7	1
1:A:10:U:H5''	2:B:69:TYR:CE2	0.69	2.22	10	1
3:C:172:GLU:OE1	3:C:190:ILE:HG23	0.69	1.87	3	1
2:B:59:PHE:N	2:B:59:PHE:CD1	0.68	2.61	5	2
3:C:267:GLY:O	3:C:269:ILE:N	0.68	2.24	5	1
1:A:6:A:N7	3:C:239:GLN:NE2	0.68	2.40	3	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:10:U:C5'	2:B:71:PHE:CE1	0.68	2.76	7	4
3:C:226:LYS:NZ	3:C:280:THR:N	0.68	2.42	5	1
3:C:266:TRP:O	3:C:266:TRP:CD1	0.68	2.47	10	2
1:A:5:U:O2'	1:A:6:A:H5'	0.68	1.88	7	7
1:A:10:U:C4'	2:B:71:PHE:CZ	0.68	2.77	8	3
1:A:7:U:C2	3:C:202:PHE:CD2	0.68	2.82	6	1
1:A:7:U:C4	3:C:202:PHE:CD1	0.68	2.81	6	1
1:A:2:A:O2'	1:A:3:U:H6	0.68	1.71	2	6
1:A:10:U:P	2:B:69:TYR:CD1	0.67	2.88	7	1
2:B:45:LEU:HD13	2:B:45:LEU:O	0.67	1.90	3	7
1:A:6:A:C2	3:C:162:PHE:CD1	0.67	2.83	9	3
3:C:275:MET:SD	3:C:275:MET:N	0.67	2.67	6	2
1:A:4:A:OP2	3:C:280:THR:HG21	0.67	1.88	10	1
3:C:259:PHE:CE1	3:C:274:LEU:HD23	0.67	2.24	8	1
1:A:4:A:C2	3:C:168:TRP:CH2	0.67	2.82	9	6
1:A:6:A:C4	3:C:162:PHE:CE1	0.67	2.82	2	4
1:A:9:A:C2	2:B:29:TYR:CD1	0.67	2.83	4	2
3:C:227:VAL:HG11	3:C:279:ASP:O	0.67	1.90	8	1
1:A:12:A:H5''	2:B:35:TYR:CZ	0.67	2.24	7	1
1:A:2:A:C2	3:C:246:PHE:CD2	0.67	2.82	9	5
1:A:7:U:C2	3:C:191:MET:SD	0.67	2.88	3	1
1:A:10:U:C6	1:A:10:U:O5'	0.67	2.48	10	3
3:C:275:MET:O	3:C:276:LEU:HD12	0.67	1.89	8	1
3:C:275:MET:O	3:C:276:LEU:HD22	0.67	1.91	1	2
1:A:1:U:H4'	3:C:284:ARG:NH1	0.67	2.05	5	1
1:A:6:A:P	3:C:236:ARG:NH2	0.67	2.68	5	1
2:B:76:ASP:O	2:B:78:GLU:N	0.66	2.27	6	10
3:C:195:ALA:O	3:C:196:THR:HG23	0.66	1.90	6	1
1:A:12:A:C5'	2:B:35:TYR:OH	0.66	2.43	7	1
3:C:188:LEU:C	3:C:188:LEU:HD23	0.66	2.10	9	1
1:A:4:A:C2	3:C:168:TRP:NE1	0.66	2.64	6	1
1:A:1:U:H3	3:C:249:GLY:H	0.66	1.31	4	1
3:C:251:GLY:N	3:C:252:PRO:CD	0.66	2.59	7	4
3:C:226:LYS:NZ	3:C:279:ASP:N	0.66	2.43	7	1
1:A:2:A:N1	3:C:246:PHE:CG	0.66	2.64	9	2
3:C:274:LEU:HD13	3:C:275:MET:N	0.66	2.05	8	1
1:A:2:A:C5	3:C:246:PHE:CE2	0.66	2.83	2	3
2:B:69:TYR:CE2	2:B:71:PHE:CE1	0.66	2.84	10	1
1:A:6:A:C8	3:C:239:GLN:NE2	0.66	2.63	1	2
1:A:9:A:N3	2:B:29:TYR:CD2	0.66	2.64	5	2
1:A:4:A:C2	3:C:168:TRP:CE2	0.66	2.84	6	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:C:219:THR:CG2	3:C:221:HIS:CE1	0.66	2.79	7	1
3:C:258:GLU:O	3:C:259:PHE:C	0.66	2.34	9	8
2:B:90:TYR:CZ	2:B:97:LEU:HD21	0.66	2.25	5	1
1:A:8:A:H4'	2:B:95:ARG:HH21	0.66	1.49	10	1
2:B:35:TYR:N	2:B:35:TYR:CD1	0.65	2.59	6	3
2:B:28:VAL:HG23	2:B:98:LYS:O	0.65	1.92	4	1
2:B:90:TYR:OH	2:B:97:LEU:HD21	0.65	1.91	5	1
1:A:6:A:C2	3:C:162:PHE:CG	0.65	2.84	10	4
2:B:72:ILE:N	2:B:72:ILE:CD1	0.65	2.60	5	4
3:C:269:ILE:HG22	3:C:269:ILE:O	0.65	1.90	2	4
2:B:45:LEU:C	2:B:45:LEU:HD13	0.65	2.12	7	3
3:C:254:VAL:O	3:C:254:VAL:HG12	0.65	1.91	8	1
3:C:311:ARG:O	3:C:313:ILE:N	0.65	2.30	9	1
3:C:207:PHE:O	3:C:208:GLU:O	0.65	2.13	10	1
1:A:3:U:H5'	3:C:286:PHE:CE2	0.65	2.25	10	4
3:C:226:LYS:NZ	3:C:280:THR:H	0.65	1.90	5	1
1:A:10:U:C5	2:B:65:ARG:NH2	0.65	2.65	6	1
1:A:7:U:C4'	3:C:202:PHE:CZ	0.65	2.80	8	2
3:C:245:ILE:HD13	3:C:245:ILE:C	0.65	2.12	9	1
1:A:2:A:N3	1:A:3:U:C6	0.65	2.64	9	3
2:B:97:LEU:HD12	2:B:97:LEU:H	0.65	1.52	2	2
1:A:6:A:N7	3:C:162:PHE:CE2	0.65	2.65	5	6
1:A:9:A:C4'	2:B:69:TYR:CE1	0.65	2.79	6	3
3:C:188:LEU:HD23	3:C:188:LEU:H	0.65	1.51	6	1
3:C:179:PHE:C	3:C:181:LYS:H	0.65	1.95	8	5
1:A:2:A:C6	3:C:246:PHE:CD1	0.65	2.84	9	1
1:A:2:A:C4	1:A:3:U:C5	0.64	2.84	10	2
1:A:10:U:H5'	2:B:71:PHE:CD2	0.64	2.27	7	1
3:C:305:PHE:CE1	3:C:314:GLU:CG	0.64	2.80	10	1
1:A:8:A:N3	2:B:29:TYR:CD2	0.64	2.65	9	1
2:B:90:TYR:O	2:B:92:LEU:N	0.64	2.29	5	10
3:C:308:PHE:CG	3:C:309:LYS:N	0.64	2.64	5	8
3:C:250:ILE:CG2	3:C:254:VAL:HG11	0.64	2.23	2	1
3:C:161:MET:SD	3:C:216:VAL:HG11	0.64	2.32	3	2
1:A:11:A:H5'	2:B:69:TYR:C	0.64	2.12	7	1
1:A:3:U:O2'	1:A:4:A:H5''	0.64	1.93	1	2
1:A:8:A:C2	2:B:29:TYR:CE2	0.64	2.85	3	7
3:C:276:LEU:N	3:C:276:LEU:CD1	0.64	2.58	3	2
1:A:11:A:C3'	2:B:58:MET:O	0.64	2.46	7	1
2:B:84:VAL:O	2:B:88:ASN:N	0.64	2.30	9	4
3:C:226:LYS:O	3:C:227:VAL:CG2	0.64	2.46	5	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:C:245:ILE:HD12	3:C:315:ILE:CG2	0.64	2.23	7	6
1:A:10:U:O5'	1:A:10:U:C6	0.64	2.51	2	3
3:C:263:PHE:O	3:C:265:GLN:N	0.64	2.31	4	5
3:C:286:PHE:N	3:C:286:PHE:CD1	0.64	2.66	2	2
1:A:2:A:N1	3:C:246:PHE:CD2	0.64	2.66	2	1
1:A:2:A:N3	3:C:246:PHE:CD2	0.64	2.66	5	4
1:A:5:U:H3	3:C:165:GLY:H	0.64	1.36	7	2
1:A:11:A:C4	2:B:66:SER:OG	0.63	2.51	7	1
1:A:10:U:O2	1:A:11:A:C5	0.63	2.51	4	1
3:C:255:ARG:CD	3:C:255:ARG:N	0.63	2.60	5	2
3:C:251:GLY:O	3:C:254:VAL:HG12	0.63	1.94	2	2
3:C:226:LYS:HZ1	3:C:279:ASP:H	0.63	1.36	5	1
3:C:158:SER:O	3:C:160:LYS:N	0.63	2.32	9	2
3:C:205:LEU:HD13	3:C:207:PHE:CZ	0.63	2.27	7	1
1:A:4:A:C4	3:C:168:TRP:CH2	0.63	2.85	10	4
2:B:27:VAL:O	2:B:100:GLY:N	0.63	2.31	1	4
1:A:11:A:N7	2:B:58:MET:CE	0.63	2.62	9	3
1:A:3:U:O2'	1:A:4:A:H4'	0.63	1.94	6	1
1:A:12:A:P	2:B:68:GLY:CA	0.63	2.86	7	1
1:A:11:A:C8	2:B:58:MET:SD	0.63	2.91	3	1
3:C:274:LEU:HD23	3:C:274:LEU:C	0.63	2.14	5	3
1:A:4:A:N1	3:C:199:SER:O	0.63	2.32	6	1
1:A:6:A:C6	3:C:234:ILE:O	0.63	2.52	8	2
3:C:188:LEU:HD23	3:C:189:LYS:N	0.63	2.09	7	1
1:A:11:A:O3'	2:B:67:LYS:O	0.63	2.16	7	1
2:B:42:ILE:O	2:B:44:ASP:N	0.63	2.32	7	8
3:C:226:LYS:HZ3	3:C:280:THR:HG23	0.63	1.52	5	1
1:A:10:U:C6	1:A:11:A:N7	0.63	2.66	7	1
3:C:308:PHE:O	3:C:310:ASP:N	0.63	2.32	8	3
2:B:44:ASP:O	2:B:48:ASN:ND2	0.62	2.32	8	7
2:B:32:SER:OG	2:B:95:ARG:N	0.62	2.27	7	3
1:A:5:U:O2'	1:A:7:U:N3	0.62	2.32	6	1
1:A:7:U:H5	3:C:204:PHE:CE2	0.62	2.10	6	1
3:C:308:PHE:O	3:C:309:LYS:C	0.62	2.37	3	8
2:B:57:MET:SD	2:B:70:ALA:HB2	0.62	2.34	2	2
3:C:199:SER:O	3:C:201:GLY:N	0.62	2.33	3	2
1:A:12:A:H8	2:B:67:LYS:N	0.62	1.89	7	1
1:A:10:U:C6	1:A:10:U:P	0.62	2.92	10	1
3:C:178:TYR:CD2	3:C:223:LEU:HD12	0.62	2.29	1	3
3:C:188:LEU:HD12	3:C:188:LEU:C	0.62	2.14	8	2
1:A:4:A:H8	3:C:166:LEU:O	0.62	1.77	9	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:97:LEU:N	2:B:97:LEU:CD1	0.62	2.58	5	2
2:B:84:VAL:HG13	2:B:99:CYS:CB	0.62	2.25	4	1
3:C:168:TRP:CZ2	3:C:198:ARG:CZ	0.62	2.83	10	1
1:A:2:A:N3	1:A:3:U:C5	0.62	2.68	3	4
1:A:9:A:C5'	2:B:69:TYR:CE1	0.62	2.82	2	2
1:A:2:A:C5	3:C:246:PHE:CZ	0.62	2.87	9	2
1:A:4:A:C5	3:C:168:TRP:CZ3	0.62	2.87	10	7
3:C:226:LYS:C	3:C:227:VAL:HG22	0.62	2.15	8	2
3:C:301:CYS:SG	3:C:317:ARG:NH2	0.62	2.73	6	1
3:C:182:TYR:OH	3:C:221:HIS:ND1	0.62	2.32	2	5
3:C:264:SER:O	3:C:266:TRP:N	0.62	2.33	8	2
2:B:46:CYS:O	2:B:49:VAL:N	0.62	2.33	5	2
1:A:3:U:C5'	3:C:286:PHE:CZ	0.62	2.83	3	3
1:A:11:A:C8	2:B:58:MET:CE	0.62	2.83	5	2
3:C:188:LEU:O	3:C:188:LEU:HD23	0.62	1.94	5	1
2:B:30:LEU:HD13	2:B:72:ILE:CD1	0.62	2.25	6	1
3:C:316:LYS:O	3:C:317:ARG:O	0.62	2.18	7	1
1:A:5:U:O2	1:A:5:U:H3'	0.61	1.95	3	1
1:A:5:U:C5'	3:C:200:ARG:NE	0.61	2.63	3	1
1:A:12:A:N6	2:B:58:MET:SD	0.61	2.72	8	1
2:B:101:TYR:O	2:B:103:SER:N	0.61	2.33	3	3
3:C:236:ARG:HE	3:C:236:ARG:N	0.61	1.92	3	1
1:A:7:U:O4	3:C:162:PHE:CE1	0.61	2.53	6	1
1:A:12:A:OP1	2:B:59:PHE:CG	0.61	2.53	7	1
1:A:7:U:H4'	1:A:8:A:OP2	0.61	1.93	4	3
2:B:52:VAL:HG12	2:B:53:ILE:H	0.61	1.56	1	1
3:C:166:LEU:N	3:C:166:LEU:HD12	0.61	2.10	3	1
3:C:259:PHE:CZ	3:C:289:VAL:HG13	0.61	2.31	10	1
3:C:238:GLU:O	3:C:242:THR:HG23	0.61	1.95	9	4
1:A:6:A:C5	3:C:162:PHE:CZ	0.61	2.88	6	3
3:C:263:PHE:CD2	3:C:266:TRP:CH2	0.61	2.88	3	9
3:C:276:LEU:O	3:C:282:GLN:N	0.61	2.34	8	1
3:C:301:CYS:SG	3:C:317:ARG:CZ	0.61	2.89	6	1
1:A:4:A:N7	3:C:167:ASN:O	0.61	2.33	2	5
2:B:90:TYR:CE1	2:B:97:LEU:HD21	0.61	2.31	5	1
2:B:85:ARG:O	2:B:88:ASN:ND2	0.61	2.33	7	2
1:A:12:A:N3	1:A:13:U:C6	0.61	2.68	7	1
3:C:276:LEU:N	3:C:280:THR:OG1	0.61	2.33	8	3
1:A:6:A:N6	3:C:162:PHE:CD2	0.61	2.68	8	2
3:C:282:GLN:O	3:C:284:ARG:N	0.61	2.31	1	7
2:B:35:TYR:OH	2:B:59:PHE:CG	0.61	2.54	2	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:C:262:PHE:O	3:C:265:GLN:NE2	0.61	2.34	5	2
2:B:32:SER:OG	2:B:94:SER:N	0.61	2.34	7	1
1:A:1:U:O2'	1:A:2:A:H2'	0.61	1.95	9	1
1:A:8:A:H4'	2:B:95:ARG:NH1	0.60	2.11	6	1
1:A:6:A:H4'	1:A:7:U:H3'	0.60	1.73	3	2
2:B:88:ASN:N	2:B:88:ASN:OD1	0.60	2.34	9	1
3:C:317:ARG:H	3:C:317:ARG:CD	0.60	2.08	1	1
2:B:84:VAL:O	2:B:88:ASN:CB	0.60	2.49	9	7
2:B:82:SER:O	2:B:86:ASN:ND2	0.60	2.34	5	7
3:C:216:VAL:HG12	3:C:216:VAL:O	0.60	1.96	6	1
1:A:6:A:C4	3:C:162:PHE:CD1	0.60	2.90	7	3
3:C:269:ILE:CG2	3:C:269:ILE:O	0.60	2.49	5	1
2:B:48:ASN:O	2:B:49:VAL:HG23	0.60	1.95	9	2
1:A:6:A:C5	3:C:162:PHE:CD2	0.60	2.90	5	6
3:C:176:ARG:O	3:C:178:TYR:N	0.60	2.35	10	8
3:C:227:VAL:HG12	3:C:227:VAL:O	0.60	1.94	5	1
1:A:11:A:O3'	2:B:67:LYS:C	0.60	2.40	7	1
2:B:58:MET:SD	2:B:59:PHE:O	0.60	2.59	2	3
2:B:88:ASN:OD1	2:B:88:ASN:N	0.60	2.35	7	2
2:B:22:ASN:N	2:B:22:ASN:OD1	0.60	2.34	7	1
1:A:10:U:O2'	1:A:11:A:H5'	0.60	1.97	5	6
2:B:53:ILE:HG22	2:B:54:ASN:OD1	0.60	1.97	10	2
2:B:90:TYR:CE1	2:B:91:GLN:O	0.60	2.55	3	8
3:C:266:TRP:CD1	3:C:267:GLY:N	0.60	2.69	3	1
3:C:277:ASP:O	3:C:280:THR:N	0.60	2.32	4	1
1:A:10:U:OP1	2:B:70:ALA:N	0.60	2.35	5	1
3:C:219:THR:O	3:C:221:HIS:CD2	0.60	2.55	6	3
2:B:68:GLY:O	2:B:69:TYR:CD2	0.60	2.54	7	1
1:A:7:U:C5	3:C:204:PHE:CE2	0.60	2.89	6	1
1:A:9:A:N1	2:B:29:TYR:CE2	0.60	2.70	10	1
3:C:246:PHE:CD1	3:C:246:PHE:O	0.59	2.55	9	2
3:C:283:SER:O	3:C:285:GLY:N	0.59	2.31	2	1
3:C:219:THR:O	3:C:221:HIS:NE2	0.59	2.35	6	4
3:C:250:ILE:O	3:C:286:PHE:N	0.59	2.35	9	3
1:A:11:A:C8	2:B:58:MET:HE1	0.59	2.32	8	1
1:A:5:U:O2'	1:A:6:A:C5'	0.59	2.50	1	7
2:B:45:LEU:HD13	2:B:45:LEU:C	0.59	2.18	6	4
2:B:54:ASN:ND2	2:B:73:GLU:OE1	0.59	2.35	2	9
1:A:3:U:O2'	1:A:4:A:C5'	0.59	2.51	6	4
1:A:6:A:C5'	1:A:7:U:H5'	0.59	2.27	2	1
2:B:30:LEU:HD11	2:B:97:LEU:HD23	0.59	1.74	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:60:ASP:OD2	2:B:66:SER:N	0.59	2.36	8	4
3:C:159:CYS:SG	3:C:207:PHE:O	0.59	2.61	3	2
3:C:221:HIS:HB3	3:C:228:ILE:HD11	0.59	1.74	5	2
1:A:1:U:N3	3:C:314:GLU:OE1	0.59	2.35	10	2
3:C:238:GLU:N	3:C:238:GLU:OE1	0.59	2.36	10	1
3:C:167:ASN:O	3:C:168:TRP:CG	0.59	2.56	7	3
1:A:8:A:H2	2:B:29:TYR:CD2	0.59	2.16	3	1
2:B:29:TYR:CD1	2:B:29:TYR:N	0.59	2.70	4	1
2:B:88:ASN:O	2:B:97:LEU:HD13	0.59	1.95	5	1
2:B:22:ASN:ND2	2:B:102:SER:O	0.59	2.36	6	1
3:C:300:VAL:O	3:C:303:ASN:N	0.59	2.36	9	9
2:B:33:ILE:N	2:B:33:ILE:HD12	0.59	2.13	8	4
1:A:9:A:C4'	2:B:69:TYR:CE2	0.59	2.85	3	1
2:B:22:ASN:OD1	2:B:101:TYR:CE2	0.59	2.56	4	1
2:B:58:MET:CG	2:B:59:PHE:N	0.59	2.66	7	1
3:C:261:GLU:N	3:C:261:GLU:OE1	0.59	2.35	7	1
2:B:22:ASN:N	2:B:23:PRO:CD	0.59	2.65	8	1
1:A:10:U:P	1:A:10:U:C5	0.59	2.95	10	1
3:C:237:ASP:OD1	3:C:238:GLU:N	0.59	2.36	1	2
1:A:6:A:N9	3:C:162:PHE:CZ	0.59	2.71	2	1
2:B:82:SER:O	2:B:86:ASN:OD1	0.59	2.20	2	1
2:B:35:TYR:OH	2:B:59:PHE:CD1	0.59	2.55	9	2
3:C:187:ASP:OD2	3:C:189:LYS:NZ	0.59	2.35	5	1
1:A:6:A:N6	3:C:234:ILE:H	0.59	1.96	6	1
1:A:5:U:H4'	3:C:200:ARG:CB	0.59	2.28	10	1
1:A:9:A:C6	2:B:29:TYR:OH	0.59	2.56	2	2
3:C:199:SER:O	3:C:200:ARG:C	0.59	2.41	6	8
2:B:101:TYR:CD1	2:B:101:TYR:N	0.59	2.67	6	2
3:C:181:LYS:NZ	3:C:182:TYR:OH	0.59	2.36	7	1
1:A:1:U:C4	1:A:3:U:O4	0.59	2.56	9	1
3:C:211:SER:O	3:C:213:VAL:N	0.59	2.36	4	8
1:A:5:U:C5'	3:C:200:ARG:HE	0.59	2.10	3	1
3:C:176:ARG:O	3:C:179:PHE:N	0.59	2.35	4	7
2:B:45:LEU:HD12	2:B:45:LEU:C	0.59	2.19	8	1
3:C:160:LYS:NZ	3:C:189:LYS:NZ	0.58	2.51	1	1
3:C:167:ASN:O	3:C:169:ASP:N	0.58	2.35	1	2
3:C:282:GLN:O	3:C:286:PHE:CZ	0.58	2.56	1	1
3:C:210:PRO:O	3:C:213:VAL:HG12	0.58	1.97	2	1
3:C:269:ILE:HG21	3:C:272:ALA:HB2	0.58	1.75	7	1
3:C:279:ASP:OD1	3:C:280:THR:N	0.58	2.35	7	1
3:C:302:GLN:NE2	3:C:303:ASN:OD1	0.58	2.36	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:1:U:O2	1:A:2:A:N7	0.58	2.36	9	1
1:A:6:A:C4	3:C:162:PHE:CE2	0.58	2.91	10	2
1:A:4:A:P	3:C:280:THR:HG21	0.58	2.38	10	1
2:B:69:TYR:OH	2:B:71:PHE:CE2	0.58	2.51	10	1
2:B:84:VAL:O	2:B:88:ASN:ND2	0.58	2.36	2	3
2:B:90:TYR:CD1	2:B:90:TYR:C	0.58	2.76	6	8
2:B:52:VAL:CG1	2:B:53:ILE:N	0.58	2.66	4	1
3:C:221:HIS:CD2	3:C:221:HIS:N	0.58	2.71	10	3
1:A:5:U:O4	3:C:231:LYS:NZ	0.58	2.37	9	1
2:B:60:ASP:O	2:B:64:GLY:N	0.58	2.36	10	1
3:C:220:GLN:O	3:C:221:HIS:CG	0.58	2.55	5	1
3:C:277:ASP:OD1	3:C:278:LYS:N	0.58	2.36	10	3
1:A:2:A:N6	3:C:319:GLU:O	0.58	2.36	7	1
1:A:11:A:C2	2:B:63:THR:OG1	0.58	2.54	7	1
3:C:170:THR:OG1	3:C:192:LYS:NZ	0.58	2.36	9	1
1:A:10:U:H3'	2:B:69:TYR:OH	0.58	1.97	10	1
1:A:9:A:C5'	2:B:69:TYR:CZ	0.58	2.84	2	1
2:B:84:VAL:O	2:B:88:ASN:CA	0.58	2.51	5	6
3:C:249:GLY:O	3:C:311:ARG:NH1	0.58	2.36	2	1
1:A:10:U:OP1	2:B:69:TYR:CG	0.58	2.56	8	2
1:A:12:A:H2'	2:B:68:GLY:HA3	0.58	1.75	7	1
1:A:10:U:C2'	1:A:11:A:H8	0.58	2.11	8	4
2:B:87:LEU:O	2:B:88:ASN:C	0.58	2.40	9	2
2:B:27:VAL:HG12	2:B:102:SER:N	0.58	2.13	6	1
1:A:2:A:C6	3:C:246:PHE:CE2	0.58	2.92	2	1
1:A:2:A:O4'	3:C:286:PHE:CE1	0.58	2.57	2	1
3:C:171:THR:OG1	3:C:174:ASN:ND2	0.58	2.36	2	2
1:A:7:U:O4	3:C:162:PHE:CZ	0.58	2.57	6	1
3:C:279:ASP:C	3:C:280:THR:HG22	0.58	2.18	7	1
3:C:193:ASP:OD2	3:C:197:GLY:N	0.58	2.37	8	1
1:A:2:A:O2'	1:A:3:U:C6	0.58	2.56	10	5
2:B:45:LEU:O	2:B:48:ASN:ND2	0.58	2.36	4	2
2:B:97:LEU:H	2:B:97:LEU:CD1	0.58	2.10	2	2
1:A:12:A:O5'	2:B:68:GLY:CA	0.58	2.45	7	1
3:C:250:ILE:N	3:C:285:GLY:O	0.58	2.37	8	1
2:B:27:VAL:O	2:B:100:GLY:CA	0.58	2.52	6	2
3:C:269:ILE:HD11	3:C:289:VAL:HB	0.58	1.75	5	1
2:B:99:CYS:O	2:B:99:CYS:SG	0.58	2.61	10	3
3:C:174:ASN:OD1	3:C:175:LEU:N	0.58	2.35	10	1
2:B:50:GLY:O	2:B:52:VAL:N	0.58	2.37	5	1
3:C:249:GLY:O	3:C:313:ILE:HG22	0.58	1.98	8	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:87:LEU:HD12	2:B:87:LEU:O	0.58	1.99	1	1
3:C:200:ARG:NE	3:C:200:ARG:C	0.58	2.57	2	1
3:C:277:ASP:N	3:C:283:SER:OG	0.58	2.36	6	1
1:A:10:U:C5	1:A:11:A:N7	0.58	2.72	7	1
2:B:26:ARG:NE	2:B:76:ASP:OD1	0.58	2.37	8	1
3:C:263:PHE:O	3:C:264:SER:C	0.57	2.43	9	10
3:C:297:VAL:O	3:C:301:CYS:SG	0.57	2.62	10	2
2:B:26:ARG:NH2	2:B:76:ASP:OD2	0.57	2.37	8	1
1:A:2:A:C2	1:A:3:U:C5	0.57	2.92	2	4
3:C:167:ASN:ND2	3:C:224:ASP:OD2	0.57	2.36	1	2
3:C:193:ASP:N	3:C:197:GLY:O	0.57	2.36	6	1
3:C:164:GLY:O	3:C:166:LEU:N	0.57	2.37	10	1
1:A:9:A:O2'	1:A:10:U:C5'	0.57	2.53	2	4
3:C:199:SER:O	3:C:200:ARG:O	0.57	2.23	2	3
1:A:10:U:H1'	2:B:58:MET:HE3	0.57	1.75	4	1
2:B:99:CYS:SG	2:B:99:CYS:O	0.57	2.62	5	2
3:C:303:ASN:OD1	3:C:303:ASN:O	0.57	2.22	6	1
2:B:23:PRO:O	2:B:101:TYR:CG	0.57	2.57	2	1
3:C:246:PHE:O	3:C:246:PHE:CD1	0.57	2.57	4	1
3:C:280:THR:OG1	3:C:281:GLY:N	0.57	2.35	4	1
3:C:178:TYR:OH	3:C:222:ILE:N	0.57	2.37	6	3
3:C:180:GLY:O	3:C:182:TYR:N	0.57	2.36	10	1
3:C:244:LYS:O	3:C:318:ALA:HB2	0.57	2.00	1	1
1:A:4:A:C8	3:C:167:ASN:O	0.57	2.57	7	4
3:C:258:GLU:CD	3:C:258:GLU:H	0.57	2.03	3	1
3:C:166:LEU:HA	3:C:228:ILE:HG22	0.57	1.76	4	2
1:A:8:A:O2'	1:A:9:A:O5'	0.57	2.23	5	5
3:C:211:SER:O	3:C:214:ASP:N	0.57	2.37	4	9
1:A:9:A:H2'	1:A:10:U:H6	0.57	1.54	3	1
1:A:9:A:C4	2:B:29:TYR:CD2	0.57	2.92	4	1
2:B:48:ASN:OD1	2:B:49:VAL:N	0.57	2.32	4	1
3:C:190:ILE:HG23	3:C:190:ILE:O	0.57	1.99	7	1
1:A:4:A:C8	3:C:166:LEU:O	0.57	2.58	7	7
2:B:26:ARG:N	2:B:80:SER:OG	0.57	2.38	10	2
3:C:292:ASP:OD1	3:C:293:SER:N	0.57	2.36	10	3
1:A:11:A:O2'	1:A:12:A:O5'	0.57	2.23	4	6
2:B:30:LEU:CD1	2:B:97:LEU:HD23	0.57	2.30	2	1
3:C:172:GLU:CD	3:C:172:GLU:H	0.57	2.03	10	3
3:C:303:ASN:ND2	3:C:306:ILE:CG1	0.57	2.67	3	1
3:C:173:ASP:O	3:C:176:ARG:N	0.57	2.38	10	2
3:C:294:ALA:O	3:C:297:VAL:N	0.57	2.38	5	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:8:A:C6	2:B:101:TYR:OH	0.57	2.55	6	1
1:A:11:A:O2'	2:B:67:LYS:C	0.57	2.43	7	1
2:B:77:LEU:O	2:B:81:ALA:CB	0.56	2.53	2	10
1:A:2:A:C2	3:C:246:PHE:CG	0.56	2.94	9	2
1:A:3:U:H3'	3:C:277:ASP:OD2	0.56	2.00	4	1
1:A:4:A:O2'	1:A:5:U:C4	0.56	2.56	4	1
1:A:5:U:O2	3:C:163:ILE:O	0.56	2.23	9	3
3:C:263:PHE:CD2	3:C:266:TRP:CZ2	0.56	2.94	9	3
2:B:30:LEU:N	2:B:30:LEU:CD2	0.56	2.68	2	2
3:C:274:LEU:CD1	3:C:286:PHE:O	0.56	2.54	7	3
1:A:4:A:N1	3:C:168:TRP:CZ3	0.56	2.73	4	2
1:A:6:A:P	3:C:236:ARG:HH22	0.56	2.24	5	1
3:C:190:ILE:O	3:C:191:MET:SD	0.56	2.64	5	1
3:C:271:ASP:O	3:C:272:ALA:C	0.56	2.44	8	2
1:A:10:U:OP1	2:B:69:TYR:CD2	0.56	2.59	8	3
2:B:67:LYS:O	2:B:69:TYR:N	0.56	2.38	6	1
3:C:276:LEU:O	3:C:278:LYS:N	0.56	2.33	6	1
1:A:1:U:O2	1:A:2:A:N6	0.56	2.38	9	1
1:A:6:A:O2'	3:C:236:ARG:NH1	0.56	2.38	9	2
1:A:9:A:O2'	1:A:10:U:C6	0.56	2.56	2	2
3:C:268:THR:O	3:C:269:ILE:C	0.56	2.43	3	4
1:A:7:U:N3	3:C:202:PHE:CD2	0.56	2.74	6	1
2:B:60:ASP:OD2	2:B:65:ARG:N	0.56	2.37	1	2
3:C:167:ASN:OD1	3:C:168:TRP:N	0.56	2.36	2	3
3:C:282:GLN:O	3:C:283:SER:C	0.56	2.44	2	1
1:A:7:U:OP2	3:C:236:ARG:NH1	0.56	2.39	3	1
1:A:7:U:O2	3:C:191:MET:SD	0.56	2.63	7	2
3:C:266:TRP:CG	3:C:267:GLY:N	0.56	2.73	3	1
2:B:58:MET:C	2:B:58:MET:SD	0.56	2.84	5	1
3:C:261:GLU:N	3:C:261:GLU:CD	0.56	2.58	6	1
1:A:8:A:C4'	2:B:95:ARG:NH2	0.56	2.65	10	1
1:A:5:U:OP2	1:A:5:U:C5	0.56	2.59	1	5
3:C:200:ARG:NE	3:C:200:ARG:O	0.56	2.38	2	1
3:C:166:LEU:C	3:C:166:LEU:HD12	0.56	2.21	4	1
3:C:220:GLN:C	3:C:221:HIS:CG	0.56	2.79	5	1
1:A:6:A:H4'	1:A:7:U:O5'	0.56	1.99	6	1
1:A:8:A:N1	2:B:99:CYS:O	0.56	2.38	6	1
1:A:11:A:O2'	1:A:12:A:N7	0.56	2.37	6	1
2:B:42:ILE:O	2:B:46:CYS:SG	0.56	2.64	6	2
1:A:6:A:C1'	1:A:7:U:OP2	0.56	2.54	3	2
1:A:6:A:C5	3:C:162:PHE:CE1	0.56	2.94	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:C:188:LEU:HD23	3:C:188:LEU:O	0.56	2.01	9	1
3:C:246:PHE:CD1	3:C:246:PHE:C	0.56	2.78	3	8
3:C:275:MET:SD	3:C:279:ASP:OD2	0.56	2.63	1	1
2:B:51:PRO:O	2:B:52:VAL:O	0.56	2.24	2	2
1:A:7:U:O4'	3:C:202:PHE:CZ	0.56	2.59	9	2
1:A:12:A:C2	1:A:13:U:C6	0.56	2.94	7	1
3:C:163:ILE:HD12	3:C:175:LEU:HD21	0.56	1.76	7	1
3:C:254:VAL:HG13	3:C:309:LYS:HG3	0.56	1.76	8	1
1:A:2:A:N1	3:C:318:ALA:O	0.56	2.39	1	1
1:A:5:U:O2	3:C:201:GLY:O	0.56	2.24	1	2
1:A:2:A:O2'	1:A:3:U:C5	0.56	2.59	4	2
1:A:5:U:OP2	1:A:5:U:C4	0.56	2.59	7	1
3:C:191:MET:O	3:C:202:PHE:CZ	0.56	2.59	7	1
2:B:43:LEU:HD13	2:B:43:LEU:C	0.56	2.22	9	1
1:A:12:A:O2'	1:A:13:U:C5'	0.55	2.54	5	9
1:A:4:A:N6	3:C:279:ASP:OD2	0.55	2.39	5	1
1:A:10:U:H5'	2:B:71:PHE:CD1	0.55	2.36	7	1
1:A:5:U:C6	1:A:5:U:O5'	0.55	2.58	4	5
2:B:45:LEU:HD21	2:B:90:TYR:CE2	0.55	2.36	5	1
1:A:10:U:O5'	2:B:71:PHE:CE1	0.55	2.60	7	1
2:B:101:TYR:O	2:B:102:SER:C	0.55	2.43	6	5
3:C:191:MET:O	3:C:192:LYS:C	0.55	2.45	10	3
1:A:10:U:OP1	2:B:58:MET:SD	0.55	2.63	2	1
1:A:9:A:C8	1:A:10:U:H5	0.55	2.19	3	1
3:C:166:LEU:HD12	3:C:167:ASN:O	0.55	2.00	10	2
1:A:11:A:O2'	1:A:12:A:C5'	0.55	2.55	2	6
3:C:269:ILE:O	3:C:269:ILE:CG2	0.55	2.55	2	3
3:C:226:LYS:NZ	3:C:278:LYS:HZ2	0.55	1.99	2	1
1:A:9:A:N3	2:B:29:TYR:CE2	0.55	2.75	5	1
3:C:316:LYS:O	3:C:317:ARG:C	0.55	2.45	7	1
1:A:6:A:C1'	1:A:7:U:H5''	0.55	2.31	8	2
3:C:200:ARG:N	3:C:200:ARG:NE	0.55	2.55	4	1
2:B:90:TYR:CE1	2:B:97:LEU:CD1	0.55	2.84	5	1
1:A:11:A:O3'	2:B:58:MET:O	0.55	2.24	7	1
1:A:9:A:N1	2:B:29:TYR:OH	0.55	2.35	2	5
3:C:222:ILE:N	3:C:222:ILE:CD1	0.55	2.61	4	2
1:A:10:U:C5	1:A:10:U:OP1	0.55	2.60	10	1
1:A:10:U:O5'	1:A:10:U:H6	0.55	1.84	9	1
2:B:27:VAL:HG13	2:B:73:GLU:HA	0.55	1.78	1	1
1:A:10:U:H5''	2:B:60:ASP:OD1	0.55	2.01	4	1
3:C:215:GLU:CD	3:C:215:GLU:H	0.55	2.04	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:11:A:OP2	2:B:58:MET:SD	0.55	2.65	6	3
1:A:11:A:H2'	2:B:69:TYR:HB2	0.55	1.79	7	1
1:A:7:U:H4'	3:C:202:PHE:CE2	0.55	2.37	8	2
1:A:10:U:O4	2:B:65:ARG:CZ	0.55	2.54	9	1
3:C:182:TYR:OH	3:C:219:THR:HG21	0.55	2.02	9	1
1:A:6:A:C8	3:C:162:PHE:CE2	0.55	2.95	1	1
1:A:10:U:O2'	1:A:11:A:C5'	0.55	2.55	5	5
3:C:163:ILE:HG22	3:C:166:LEU:HD11	0.55	1.78	3	1
3:C:246:PHE:CD1	3:C:247:VAL:N	0.55	2.75	3	2
1:A:2:A:O2'	1:A:3:U:H5	0.55	1.84	4	2
1:A:10:U:O2	1:A:11:A:N7	0.55	2.39	4	1
3:C:198:ARG:NE	3:C:198:ARG:C	0.55	2.60	7	1
1:A:11:A:O2'	1:A:12:A:C8	0.55	2.59	2	3
3:C:175:LEU:HD12	3:C:190:ILE:CD1	0.55	2.32	2	1
1:A:8:A:H2	2:B:29:TYR:CE2	0.55	2.18	3	1
2:B:38:THR:O	2:B:42:ILE:CG1	0.55	2.54	7	2
1:A:10:U:OP2	2:B:69:TYR:CD2	0.55	2.59	5	1
1:A:12:A:N6	2:B:57:MET:O	0.55	2.40	10	2
1:A:12:A:O2'	1:A:13:U:O5'	0.54	2.25	8	9
1:A:6:A:N7	3:C:239:GLN:CD	0.54	2.60	4	2
1:A:6:A:N6	3:C:234:ILE:O	0.54	2.40	7	1
3:C:181:LYS:NZ	3:C:181:LYS:CB	0.54	2.70	8	1
1:A:9:A:C2	2:B:29:TYR:CD2	0.54	2.95	10	1
3:C:173:ASP:O	3:C:174:ASN:C	0.54	2.43	3	3
3:C:292:ASP:CG	3:C:293:SER:N	0.54	2.60	4	2
2:B:24:PRO:O	2:B:99:CYS:SG	0.54	2.63	5	1
3:C:226:LYS:HZ2	3:C:280:THR:N	0.54	1.99	5	1
3:C:307:ASP:OD1	3:C:312:LYS:NZ	0.54	2.37	10	1
3:C:226:LYS:O	3:C:227:VAL:CB	0.54	2.56	5	2
1:A:5:U:O2	1:A:5:U:C3'	0.54	2.55	3	1
2:B:45:LEU:O	2:B:48:ASN:OD1	0.54	2.25	4	1
3:C:300:VAL:O	3:C:303:ASN:OD1	0.54	2.24	6	1
1:A:4:A:C5	3:C:168:TRP:CH2	0.54	2.94	10	3
1:A:11:A:C5'	2:B:69:TYR:CB	0.54	2.86	7	1
2:B:27:VAL:HG21	2:B:102:SER:O	0.54	2.01	1	2
2:B:49:VAL:HG11	2:B:83:ALA:CB	0.54	2.19	5	6
2:B:88:ASN:O	2:B:97:LEU:CB	0.54	2.55	6	2
3:C:188:LEU:N	3:C:188:LEU:CD2	0.54	2.70	6	2
1:A:11:A:C5'	2:B:69:TYR:O	0.54	2.50	7	1
1:A:4:A:N3	1:A:4:A:O5'	0.54	2.40	3	4
2:B:26:ARG:NH1	2:B:76:ASP:OD1	0.54	2.40	6	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:C:168:TRP:HE1	3:C:198:ARG:HH21	0.54	1.43	7	1
1:A:10:U:O4	2:B:65:ARG:NH1	0.54	2.41	9	1
2:B:96:PHE:CD1	2:B:96:PHE:N	0.54	2.71	9	1
3:C:277:ASP:O	3:C:279:ASP:N	0.54	2.41	9	1
3:C:245:ILE:HD11	3:C:315:ILE:CG2	0.54	2.32	10	2
3:C:188:LEU:HD23	3:C:188:LEU:C	0.54	2.23	5	1
3:C:317:ARG:O	3:C:319:GLU:N	0.54	2.41	5	2
3:C:164:GLY:C	3:C:166:LEU:N	0.54	2.60	10	1
1:A:9:A:N3	2:B:71:PHE:CE2	0.54	2.76	8	4
2:B:31:GLY:O	2:B:68:GLY:O	0.54	2.26	10	4
2:B:75:ARG:O	2:B:76:ASP:CB	0.54	2.55	4	9
2:B:87:LEU:HD12	2:B:87:LEU:C	0.54	2.23	1	1
3:C:309:LYS:O	3:C:310:ASP:C	0.54	2.46	3	2
3:C:186:THR:OG1	3:C:208:GLU:N	0.54	2.40	6	1
1:A:10:U:H5''	1:A:11:A:OP2	0.54	2.03	7	1
3:C:162:PHE:CD2	3:C:162:PHE:O	0.54	2.61	7	1
3:C:171:THR:O	3:C:174:ASN:OD1	0.54	2.26	10	1
1:A:8:A:C2	2:B:29:TYR:CD2	0.54	2.95	10	5
3:C:317:ARG:CD	3:C:317:ARG:N	0.54	2.70	1	1
2:B:88:ASN:OD1	2:B:99:CYS:SG	0.54	2.66	2	1
3:C:241:LYS:O	3:C:242:THR:C	0.54	2.46	6	3
1:A:5:U:O2	3:C:162:PHE:CD2	0.54	2.61	2	1
3:C:250:ILE:HG23	3:C:254:VAL:HG11	0.54	1.79	2	1
3:C:258:GLU:CD	3:C:258:GLU:N	0.54	2.62	3	1
1:A:2:A:C6	3:C:246:PHE:CE1	0.54	2.96	9	2
3:C:166:LEU:HD12	3:C:167:ASN:N	0.54	2.17	4	1
1:A:9:A:OP2	3:C:200:ARG:NE	0.54	2.40	6	1
1:A:13:U:N3	2:B:94:SER:OG	0.54	2.41	7	1
3:C:182:TYR:OH	3:C:219:THR:CG2	0.54	2.56	9	1
3:C:265:GLN:CG	3:C:266:TRP:H	0.54	2.16	5	2
3:C:178:TYR:O	3:C:181:LYS:NZ	0.54	2.41	8	1
2:B:66:SER:CB	2:B:69:TYR:CD1	0.53	2.91	3	1
2:B:37:GLN:HE22	2:B:92:LEU:HD11	0.53	1.63	4	1
3:C:254:VAL:HG22	3:C:255:ARG:N	0.53	2.18	4	1
1:A:4:A:C2	1:A:4:A:OP1	0.53	2.61	7	2
1:A:11:A:N3	2:B:66:SER:O	0.53	2.41	7	1
1:A:10:U:C2	2:B:58:MET:CE	0.53	2.91	1	1
2:B:25:SER:O	2:B:77:LEU:CD2	0.53	2.56	1	1
3:C:176:ARG:O	3:C:177:GLU:C	0.53	2.44	4	9
1:A:11:A:C2'	1:A:12:A:C8	0.53	2.91	2	1
1:A:9:A:N1	2:B:102:SER:CB	0.53	2.71	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:47:SER:OG	2:B:52:VAL:HG21	0.53	2.03	10	1
3:C:266:TRP:O	3:C:266:TRP:CG	0.53	2.59	10	1
3:C:226:LYS:O	3:C:227:VAL:CG1	0.53	2.53	8	2
2:B:84:VAL:HG12	2:B:88:ASN:ND2	0.53	2.18	8	2
3:C:216:VAL:CG1	3:C:217:VAL:N	0.53	2.71	2	1
3:C:276:LEU:CA	3:C:283:SER:OG	0.53	2.56	3	1
3:C:262:PHE:O	3:C:265:GLN:HG2	0.53	2.03	4	1
1:A:4:A:OP2	3:C:282:GLN:NE2	0.53	2.41	7	1
3:C:158:SER:C	3:C:160:LYS:N	0.53	2.61	7	1
2:B:92:LEU:O	2:B:95:ARG:O	0.53	2.26	10	6
3:C:258:GLU:O	3:C:260:GLU:N	0.53	2.42	8	6
3:C:242:THR:O	3:C:291:TYR:O	0.53	2.27	7	2
1:A:9:A:O2'	1:A:10:U:O4'	0.53	2.26	5	2
3:C:254:VAL:CG1	3:C:310:ASP:OD2	0.53	2.56	6	1
3:C:278:LYS:N	3:C:278:LYS:CD	0.53	2.70	9	1
3:C:158:SER:C	3:C:159:CYS:SG	0.53	2.87	10	3
2:B:23:PRO:O	2:B:101:TYR:CB	0.53	2.57	2	2
3:C:200:ARG:NH2	3:C:202:PHE:CE2	0.53	2.77	2	1
1:A:6:A:O2'	1:A:7:U:OP2	0.53	2.26	8	2
1:A:1:U:O4	3:C:249:GLY:N	0.53	2.42	4	1
3:C:226:LYS:HZ2	3:C:280:THR:HG23	0.53	1.62	5	1
1:A:3:U:HO2'	1:A:4:A:C5'	0.53	2.16	6	1
1:A:12:A:O2'	1:A:13:U:P	0.53	2.66	7	1
2:B:53:ILE:N	2:B:73:GLU:O	0.53	2.42	7	1
3:C:254:VAL:O	3:C:274:LEU:CD2	0.53	2.56	7	1
1:A:12:A:H61	2:B:57:MET:N	0.53	2.02	10	1
2:B:88:ASN:O	2:B:97:LEU:O	0.53	2.27	9	9
3:C:205:LEU:HD23	3:C:207:PHE:CE2	0.53	2.39	8	1
1:A:7:U:H4'	3:C:202:PHE:CE1	0.53	2.38	9	1
1:A:11:A:N7	2:B:58:MET:HE3	0.53	2.18	9	1
1:A:4:A:N3	3:C:168:TRP:CH2	0.53	2.77	1	2
1:A:10:U:O4	2:B:71:PHE:CD2	0.53	2.61	1	1
1:A:6:A:C2'	3:C:236:ARG:HH22	0.53	2.16	2	1
3:C:226:LYS:HZ3	3:C:278:LYS:NZ	0.53	2.00	2	1
2:B:46:CYS:O	2:B:87:LEU:CD1	0.53	2.56	7	3
2:B:90:TYR:CE1	2:B:92:LEU:HD13	0.53	2.38	5	1
1:A:8:A:O2'	1:A:9:A:P	0.53	2.67	6	3
3:C:166:LEU:CD1	3:C:192:LYS:HZ1	0.53	2.16	8	1
3:C:212:SER:O	3:C:216:VAL:CG2	0.53	2.55	1	3
3:C:239:GLN:O	3:C:242:THR:OG1	0.53	2.27	6	5
1:A:6:A:N1	3:C:162:PHE:CG	0.53	2.76	9	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:C:200:ARG:NH1	3:C:201:GLY:O	0.53	2.42	3	1
1:A:9:A:N3	2:B:29:TYR:CG	0.53	2.77	4	1
1:A:10:U:H5'	2:B:69:TYR:CG	0.53	2.39	4	1
2:B:34:PRO:O	2:B:36:ASP:N	0.53	2.42	5	3
1:A:7:U:C4	3:C:202:PHE:CG	0.53	2.96	6	1
2:B:86:ASN:N	2:B:86:ASN:HD22	0.53	2.02	9	1
1:A:6:A:N1	3:C:234:ILE:N	0.53	2.48	7	1
1:A:11:A:O2'	2:B:66:SER:C	0.53	2.47	7	1
2:B:29:TYR:OH	2:B:101:TYR:N	0.53	2.42	10	1
1:A:1:U:O2'	1:A:2:A:O5'	0.53	2.27	6	6
1:A:2:A:C6	3:C:246:PHE:CG	0.53	2.97	9	2
1:A:4:A:C6	3:C:168:TRP:CE3	0.53	2.97	4	1
2:B:27:VAL:HG12	2:B:102:SER:H	0.53	1.62	6	1
2:B:87:LEU:N	2:B:87:LEU:HD22	0.53	2.18	6	1
1:A:9:A:H1'	2:B:71:PHE:CE1	0.53	2.38	9	2
1:A:12:A:OP2	2:B:58:MET:O	0.53	2.26	7	1
2:B:32:SER:C	2:B:33:ILE:HD12	0.53	2.24	7	1
3:C:254:VAL:HG11	3:C:308:PHE:CE2	0.53	2.38	7	2
3:C:159:CYS:SG	3:C:213:VAL:HG21	0.53	2.44	9	1
3:C:208:GLU:CG	3:C:209:LYS:H	0.53	2.15	10	1
1:A:12:A:H8	2:B:67:LYS:CA	0.52	2.17	7	1
1:A:9:A:O2'	1:A:10:U:O5'	0.52	2.27	10	6
3:C:229:ASP:OD2	3:C:231:LYS:NZ	0.52	2.42	3	1
3:C:262:PHE:O	3:C:263:PHE:C	0.52	2.48	9	5
2:B:87:LEU:O	2:B:97:LEU:CD1	0.52	2.56	9	1
2:B:46:CYS:C	2:B:48:ASN:N	0.52	2.63	10	9
2:B:90:TYR:O	2:B:91:GLN:C	0.52	2.48	3	9
3:C:226:LYS:HZ2	3:C:226:LYS:HB2	0.52	1.64	4	1
3:C:193:ASP:CB	3:C:197:GLY:O	0.52	2.57	6	1
1:A:11:A:C5'	2:B:69:TYR:HB2	0.52	2.35	7	1
1:A:2:A:O2'	1:A:3:U:P	0.52	2.68	5	5
3:C:227:VAL:HG22	3:C:227:VAL:O	0.52	2.03	7	2
1:A:11:A:C2'	1:A:12:A:H8	0.52	2.17	2	1
1:A:6:A:N1	3:C:162:PHE:CB	0.52	2.73	3	1
1:A:1:U:O2	1:A:2:A:C5	0.52	2.62	9	1
3:C:276:LEU:O	3:C:277:ASP:O	0.52	2.27	9	1
1:A:2:A:C4'	3:C:286:PHE:CE1	0.52	2.93	2	1
3:C:276:LEU:N	3:C:280:THR:O	0.52	2.33	2	1
3:C:182:TYR:OH	3:C:221:HIS:CE1	0.52	2.63	4	3
3:C:269:ILE:HG23	3:C:291:TYR:CZ	0.52	2.39	3	1
3:C:270:ILE:HD13	3:C:291:TYR:O	0.52	2.03	6	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:C:247:VAL:HG21	3:C:263:PHE:CZ	0.52	2.40	10	1
3:C:164:GLY:O	3:C:229:ASP:N	0.52	2.34	8	1
3:C:207:PHE:O	3:C:208:GLU:C	0.52	2.48	10	1
3:C:229:ASP:OD1	3:C:229:ASP:N	0.52	2.43	7	1
2:B:36:ASP:CB	2:B:37:GLN:NE2	0.52	2.72	2	1
3:C:307:ASP:OD1	3:C:307:ASP:O	0.52	2.28	8	3
3:C:166:LEU:N	3:C:166:LEU:CD1	0.52	2.73	3	1
1:A:10:U:H1'	2:B:58:MET:HE2	0.52	1.82	4	1
1:A:12:A:H8	2:B:67:LYS:C	0.52	2.08	7	1
2:B:96:PHE:O	2:B:97:LEU:C	0.52	2.48	4	9
3:C:165:GLY:O	3:C:227:VAL:O	0.52	2.28	4	2
3:C:227:VAL:HG12	3:C:273:GLN:OE1	0.52	2.05	6	1
1:A:10:U:H4'	2:B:66:SER:CB	0.51	2.34	1	1
3:C:172:GLU:O	3:C:175:LEU:N	0.51	2.43	4	1
1:A:2:A:C4	3:C:246:PHE:CD2	0.51	2.99	9	3
3:C:269:ILE:HB	3:C:272:ALA:HB2	0.51	1.81	3	1
2:B:60:ASP:OD1	2:B:63:THR:CG2	0.51	2.58	4	1
3:C:313:ILE:CG1	3:C:313:ILE:O	0.51	2.57	4	1
3:C:264:SER:N	3:C:269:ILE:HD11	0.51	2.19	9	1
2:B:34:PRO:C	2:B:36:ASP:H	0.51	2.08	5	5
2:B:23:PRO:CB	2:B:24:PRO:CD	0.51	2.89	5	2
1:A:10:U:P	2:B:30:LEU:O	0.51	2.68	5	1
3:C:266:TRP:HE1	3:C:300:VAL:CG1	0.51	2.17	6	1
1:A:10:U:H5'	2:B:71:PHE:CG	0.51	2.40	7	1
3:C:167:ASN:OD1	3:C:167:ASN:N	0.51	2.43	7	2
3:C:254:VAL:O	3:C:255:ARG:C	0.51	2.48	8	1
1:A:10:U:O2	2:B:58:MET:SD	0.51	2.68	1	1
3:C:179:PHE:C	3:C:181:LYS:N	0.51	2.60	6	4
2:B:60:ASP:CG	2:B:60:ASP:O	0.51	2.48	7	3
3:C:172:GLU:CD	3:C:172:GLU:N	0.51	2.64	3	1
3:C:308:PHE:CD2	3:C:309:LYS:N	0.51	2.78	4	2
2:B:47:SER:O	2:B:50:GLY:N	0.51	2.38	9	1
3:C:168:TRP:CZ2	3:C:198:ARG:NH2	0.51	2.79	10	1
3:C:226:LYS:NZ	3:C:278:LYS:O	0.51	2.36	1	1
1:A:10:U:H5''	2:B:60:ASP:OD2	0.51	2.05	4	1
3:C:236:ARG:CG	3:C:236:ARG:HH11	0.51	2.18	5	1
1:A:4:A:N3	1:A:4:A:H2'	0.51	2.21	10	1
3:C:175:LEU:CD2	3:C:205:LEU:HD11	0.51	2.35	10	1
2:B:55:LEU:HD23	2:B:56:LYS:N	0.51	2.21	1	3
2:B:36:ASP:CB	2:B:37:GLN:HE22	0.51	2.19	2	1
1:A:5:U:H3	3:C:201:GLY:C	0.51	2.06	4	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:53:ILE:O	2:B:54:ASN:OD1	0.51	2.29	7	2
1:A:12:A:O4'	2:B:67:LYS:CB	0.51	2.59	7	1
3:C:185:VAL:HG12	3:C:207:PHE:CE1	0.51	2.41	9	1
3:C:276:LEU:N	3:C:283:SER:OG	0.51	2.43	3	1
3:C:221:HIS:CD2	3:C:230:PRO:CG	0.51	2.94	5	1
1:A:3:U:O2'	1:A:4:A:C4'	0.51	2.59	6	1
1:A:11:A:H5'	2:B:69:TYR:CB	0.51	2.36	7	1
1:A:12:A:OP1	2:B:58:MET:O	0.51	2.28	7	1
1:A:12:A:OP1	2:B:59:PHE:CB	0.51	2.58	7	1
1:A:5:U:C2	3:C:201:GLY:O	0.51	2.64	7	2
1:A:10:U:OP1	2:B:69:TYR:CB	0.51	2.59	8	3
2:B:60:ASP:CG	2:B:66:SER:H	0.51	2.09	2	1
3:C:161:MET:SD	3:C:216:VAL:CG1	0.51	2.99	3	1
3:C:250:ILE:HD11	3:C:286:PHE:O	0.51	2.06	3	1
1:A:6:A:C8	3:C:162:PHE:CE1	0.51	2.99	7	1
3:C:186:THR:O	3:C:187:ASP:OD1	0.51	2.29	7	2
3:C:245:ILE:HD12	3:C:315:ILE:HG23	0.51	1.81	7	1
1:A:5:U:H4'	3:C:200:ARG:HB2	0.51	1.82	10	1
1:A:6:A:H5''	1:A:8:A:H8	0.51	1.64	3	1
3:C:166:LEU:HD12	3:C:202:PHE:CA	0.51	2.36	6	1
1:A:6:A:C5	3:C:162:PHE:CD1	0.51	2.99	7	1
3:C:163:ILE:HD11	3:C:205:LEU:HD13	0.51	1.83	8	1
3:C:178:TYR:CD1	3:C:178:TYR:C	0.51	2.84	4	8
3:C:193:ASP:O	3:C:195:ALA:N	0.51	2.44	3	1
1:A:8:A:C2	2:B:29:TYR:CZ	0.51	2.98	4	1
1:A:9:A:C2	2:B:71:PHE:CZ	0.51	2.99	5	1
3:C:311:ARG:CG	3:C:312:LYS:N	0.51	2.74	5	1
3:C:161:MET:SD	3:C:217:VAL:CG2	0.51	2.99	6	1
3:C:175:LEU:HD22	3:C:190:ILE:CD1	0.51	2.36	7	1
3:C:308:PHE:C	3:C:310:ASP:N	0.51	2.64	10	2
1:A:6:A:C8	3:C:236:ARG:NH2	0.50	2.79	2	1
1:A:11:A:N7	2:B:58:MET:HE2	0.50	2.21	2	1
2:B:80:SER:O	2:B:84:VAL:HG23	0.50	2.06	2	1
2:B:27:VAL:CG2	2:B:28:VAL:N	0.50	2.75	6	2
2:B:81:ALA:O	2:B:85:ARG:CG	0.50	2.59	10	3
3:C:241:LYS:O	3:C:242:THR:O	0.50	2.29	6	1
3:C:262:PHE:O	3:C:264:SER:N	0.50	2.45	6	1
1:A:11:A:H3'	2:B:69:TYR:CA	0.50	2.32	7	1
1:A:6:A:H4'	1:A:7:U:H5''	0.50	1.78	8	2
3:C:300:VAL:HG23	3:C:303:ASN:OD1	0.50	2.05	3	1
2:B:60:ASP:CG	2:B:63:THR:HG1	0.50	2.09	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:87:LEU:N	2:B:87:LEU:CD2	0.50	2.74	6	1
3:C:229:ASP:OD1	3:C:271:ASP:OD2	0.50	2.29	6	1
3:C:188:LEU:C	3:C:188:LEU:CD2	0.50	2.78	9	1
2:B:46:CYS:O	2:B:47:SER:C	0.50	2.50	5	10
3:C:272:ALA:O	3:C:273:GLN:CB	0.50	2.55	10	3
2:B:31:GLY:N	2:B:33:ILE:CD1	0.50	2.74	2	1
2:B:60:ASP:CB	2:B:66:SER:O	0.50	2.59	7	3
2:B:77:LEU:N	2:B:77:LEU:CD2	0.50	2.74	5	3
2:B:27:VAL:HG11	2:B:102:SER:O	0.50	2.06	5	1
3:C:207:PHE:CZ	3:C:216:VAL:HG21	0.50	2.41	6	1
3:C:262:PHE:CD1	3:C:262:PHE:C	0.50	2.82	6	1
3:C:259:PHE:CD1	3:C:274:LEU:HD23	0.50	2.41	8	1
2:B:32:SER:H	2:B:95:ARG:NH1	0.50	2.04	9	1
3:C:180:GLY:C	3:C:182:TYR:H	0.50	2.09	10	1
3:C:213:VAL:O	3:C:217:VAL:HG12	0.50	2.07	1	1
3:C:200:ARG:CZ	3:C:202:PHE:CE2	0.50	2.94	2	1
3:C:215:GLU:OE2	3:C:219:THR:OG1	0.50	2.30	2	1
3:C:237:ASP:O	3:C:241:LYS:N	0.50	2.43	3	1
2:B:84:VAL:HG13	2:B:99:CYS:SG	0.50	2.47	4	1
3:C:166:LEU:HD12	3:C:167:ASN:C	0.50	2.27	4	1
2:B:97:LEU:H	2:B:97:LEU:HD23	0.50	1.66	9	3
3:C:301:CYS:SG	3:C:317:ARG:NH1	0.50	2.85	1	1
2:B:77:LEU:CD2	2:B:77:LEU:H	0.50	2.20	5	4
3:C:193:ASP:OD1	3:C:193:ASP:O	0.50	2.30	4	1
3:C:257:LYS:O	3:C:261:GLU:OE1	0.50	2.29	7	1
1:A:8:A:C2	2:B:29:TYR:CG	0.50	2.99	9	1
2:B:76:ASP:C	2:B:78:GLU:N	0.50	2.64	9	10
1:A:2:A:HI'	3:C:286:PHE:CE2	0.50	2.41	2	1
3:C:163:ILE:CG2	3:C:166:LEU:HD21	0.50	2.34	2	3
3:C:182:TYR:N	3:C:182:TYR:CD1	0.50	2.79	5	3
3:C:216:VAL:HG13	3:C:217:VAL:N	0.50	2.22	2	1
3:C:190:ILE:O	3:C:190:ILE:CG2	0.50	2.59	7	1
3:C:166:LEU:CB	3:C:192:LYS:HZ1	0.50	2.20	8	1
1:A:11:A:O2'	1:A:12:A:H5'	0.50	2.07	2	1
3:C:300:VAL:O	3:C:301:CYS:C	0.50	2.50	3	8
2:B:96:PHE:O	2:B:97:LEU:O	0.50	2.30	6	1
2:B:27:VAL:O	2:B:100:GLY:O	0.50	2.29	8	1
3:C:221:HIS:CB	3:C:228:ILE:HD11	0.50	2.36	8	2
2:B:30:LEU:HD12	2:B:72:ILE:HD11	0.50	1.84	10	1
3:C:276:LEU:O	3:C:280:THR:O	0.49	2.30	2	1
1:A:12:A:OP1	2:B:58:MET:C	0.49	2.49	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:68:GLY:O	2:B:69:TYR:CG	0.49	2.65	7	1
3:C:188:LEU:HD12	3:C:189:LYS:H	0.49	1.63	2	1
1:A:11:A:O4'	2:B:58:MET:SD	0.49	2.70	3	1
1:A:3:U:O2'	1:A:4:A:O5'	0.49	2.30	4	2
1:A:10:U:C2	1:A:11:A:N7	0.49	2.80	4	1
2:B:60:ASP:OD1	2:B:63:THR:OG1	0.49	2.30	4	1
1:A:9:A:C6	2:B:29:TYR:CE2	0.49	3.00	10	1
3:C:192:LYS:O	3:C:199:SER:OG	0.49	2.29	10	1
3:C:168:TRP:O	3:C:169:ASP:OD1	0.49	2.30	1	1
3:C:260:GLU:O	3:C:264:SER:CB	0.49	2.61	2	1
3:C:282:GLN:O	3:C:285:GLY:N	0.49	2.46	2	1
2:B:92:LEU:O	2:B:93:GLY:O	0.49	2.30	3	1
3:C:166:LEU:CD2	3:C:201:GLY:O	0.49	2.61	4	1
1:A:4:A:C6	3:C:168:TRP:NE1	0.49	2.79	6	1
2:B:90:TYR:CD1	2:B:91:GLN:N	0.49	2.80	7	3
3:C:162:PHE:CG	3:C:162:PHE:O	0.49	2.65	7	1
3:C:176:ARG:C	3:C:178:TYR:N	0.49	2.64	10	7
1:A:10:U:OP1	2:B:70:ALA:O	0.49	2.31	5	1
3:C:214:ASP:OD1	3:C:218:LYS:NZ	0.49	2.45	6	1
3:C:259:PHE:C	3:C:259:PHE:CD1	0.49	2.86	6	1
1:A:4:A:C2	1:A:4:A:OP2	0.49	2.65	1	1
2:B:76:ASP:O	2:B:77:LEU:C	0.49	2.51	6	10
2:B:84:VAL:O	2:B:88:ASN:CG	0.49	2.51	4	4
2:B:60:ASP:OD2	2:B:66:SER:O	0.49	2.29	5	2
3:C:226:LYS:HZ1	3:C:278:LYS:C	0.49	2.09	7	1
3:C:221:HIS:HB2	3:C:228:ILE:HD11	0.49	1.83	9	2
2:B:60:ASP:OD2	2:B:66:SER:OG	0.49	2.31	10	1
3:C:236:ARG:CG	3:C:236:ARG:NH1	0.49	2.72	5	1
3:C:208:GLU:CG	3:C:209:LYS:N	0.49	2.75	10	1
3:C:232:ARG:O	3:C:233:ALA:C	0.49	2.50	6	4
3:C:275:MET:SD	3:C:280:THR:O	0.49	2.70	5	1
3:C:231:LYS:HG2	3:C:234:ILE:HD11	0.49	1.85	6	1
2:B:60:ASP:CG	2:B:66:SER:O	0.49	2.51	5	6
3:C:211:SER:O	3:C:212:SER:C	0.49	2.51	9	10
1:A:6:A:H2'	3:C:236:ARG:HH22	0.49	1.67	2	1
3:C:260:GLU:O	3:C:264:SER:OG	0.49	2.29	2	1
2:B:102:SER:O	2:B:102:SER:OG	0.49	2.29	3	3
2:B:77:LEU:N	2:B:77:LEU:HD22	0.49	2.23	4	3
1:A:10:U:C6	1:A:10:U:OP2	0.49	2.65	7	1
3:C:262:PHE:CD2	3:C:308:PHE:CE1	0.49	3.00	9	1
2:B:60:ASP:OD1	2:B:60:ASP:N	0.49	2.42	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:C:158:SER:C	3:C:160:LYS:H	0.49	2.10	7	2
3:C:251:GLY:O	3:C:252:PRO:O	0.49	2.30	9	3
3:C:274:LEU:C	3:C:275:MET:SD	0.49	2.92	6	1
1:A:10:U:O5'	2:B:71:PHE:CZ	0.49	2.66	7	1
2:B:77:LEU:CD2	2:B:77:LEU:N	0.49	2.75	7	1
2:B:88:ASN:O	2:B:97:LEU:HG	0.49	2.08	9	1
3:C:164:GLY:C	3:C:166:LEU:H	0.49	2.11	10	1
1:A:3:U:O4	3:C:319:GLU:OE1	0.48	2.31	1	1
3:C:178:TYR:CG	3:C:223:LEU:HD12	0.48	2.43	1	2
3:C:172:GLU:O	3:C:173:ASP:C	0.48	2.50	3	6
2:B:30:LEU:HD13	2:B:72:ILE:HD13	0.48	1.85	6	1
2:B:48:ASN:O	2:B:49:VAL:CB	0.48	2.61	9	2
1:A:6:A:C5	3:C:162:PHE:CG	0.48	3.01	1	3
1:A:4:A:OP1	1:A:4:A:H3'	0.48	2.08	9	1
1:A:11:A:N7	2:B:58:MET:SD	0.48	2.86	9	1
3:C:166:LEU:CD1	3:C:167:ASN:O	0.48	2.61	4	1
2:B:88:ASN:O	2:B:97:LEU:C	0.48	2.52	6	2
3:C:255:ARG:CG	3:C:255:ARG:HH11	0.48	2.21	6	1
3:C:317:ARG:C	3:C:319:GLU:H	0.48	2.12	7	2
2:B:69:TYR:CD1	2:B:69:TYR:C	0.48	2.86	10	1
3:C:305:PHE:CE1	3:C:314:GLU:OE2	0.48	2.67	10	1
3:C:305:PHE:CZ	3:C:314:GLU:OE2	0.48	2.65	10	1
2:B:34:PRO:C	2:B:36:ASP:N	0.48	2.67	5	5
2:B:26:ARG:C	2:B:80:SER:HG	0.48	2.12	2	1
3:C:262:PHE:O	3:C:265:GLN:CD	0.48	2.51	7	2
3:C:256:PRO:O	3:C:257:LYS:C	0.48	2.50	7	3
3:C:168:TRP:NE1	3:C:198:ARG:NH2	0.48	2.60	7	1
3:C:175:LEU:HD13	3:C:190:ILE:CD1	0.48	2.38	9	1
3:C:262:PHE:CG	3:C:263:PHE:N	0.48	2.80	6	1
3:C:191:MET:O	3:C:202:PHE:CE1	0.48	2.66	7	1
3:C:277:ASP:C	3:C:279:ASP:N	0.48	2.66	9	1
3:C:242:THR:HG22	3:C:292:ASP:HA	0.48	1.86	1	1
3:C:200:ARG:O	3:C:202:PHE:CD1	0.48	2.66	9	1
3:C:195:ALA:O	3:C:196:THR:C	0.48	2.52	10	1
2:B:45:LEU:C	2:B:45:LEU:CD1	0.48	2.82	8	8
2:B:43:LEU:O	2:B:47:SER:OG	0.48	2.30	2	1
1:A:10:U:OP1	2:B:69:TYR:CE2	0.48	2.67	10	1
1:A:4:A:N6	3:C:279:ASP:OD1	0.48	2.46	3	1
3:C:227:VAL:O	3:C:227:VAL:HG12	0.48	2.09	3	1
2:B:52:VAL:HG13	2:B:53:ILE:H	0.48	1.69	4	1
3:C:167:ASN:OD1	3:C:167:ASN:O	0.48	2.31	5	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:C:163:ILE:HG21	3:C:166:LEU:HD21	0.48	1.84	8	1
1:A:6:A:C4'	1:A:7:U:C5'	0.48	2.87	3	6
2:B:88:ASN:O	2:B:97:LEU:CG	0.48	2.61	1	2
1:A:2:A:N6	3:C:246:PHE:CE1	0.48	2.82	2	2
1:A:10:U:OP2	2:B:69:TYR:CD1	0.48	2.67	5	2
1:A:8:A:N6	2:B:101:TYR:CZ	0.48	2.81	8	1
3:C:170:THR:H	3:C:192:LYS:CD	0.48	2.21	8	1
3:C:262:PHE:O	3:C:265:GLN:OE1	0.48	2.32	2	1
3:C:178:TYR:CE2	3:C:223:LEU:HD23	0.48	2.44	5	1
1:A:12:A:OP1	2:B:59:PHE:CA	0.48	2.62	7	1
3:C:248:GLY:O	3:C:249:GLY:O	0.47	2.32	1	1
2:B:26:ARG:CA	2:B:80:SER:OG	0.47	2.61	2	1
1:A:10:U:C5	2:B:71:PHE:CE1	0.47	3.02	1	1
2:B:75:ARG:O	2:B:76:ASP:HB2	0.47	2.09	2	1
3:C:211:SER:C	3:C:213:VAL:N	0.47	2.67	10	7
1:A:12:A:O2'	1:A:13:U:C6	0.47	2.57	3	4
1:A:5:U:C4	3:C:165:GLY:N	0.47	2.82	4	1
2:B:28:VAL:HG23	2:B:98:LYS:C	0.47	2.28	4	1
2:B:31:GLY:C	2:B:33:ILE:HD12	0.47	2.30	7	3
3:C:255:ARG:CG	3:C:255:ARG:NH1	0.47	2.76	6	1
3:C:161:MET:HE1	3:C:217:VAL:HG22	0.47	1.85	9	1
2:B:87:LEU:O	2:B:87:LEU:CD1	0.47	2.63	1	1
3:C:209:LYS:O	3:C:211:SER:N	0.47	2.48	1	2
3:C:266:TRP:O	3:C:267:GLY:O	0.47	2.32	4	2
1:A:2:A:O4'	3:C:286:PHE:CD1	0.47	2.67	2	1
3:C:193:ASP:CA	3:C:197:GLY:O	0.47	2.62	6	1
3:C:306:ILE:HG21	3:C:315:ILE:HD11	0.47	1.86	6	1
3:C:193:ASP:OD1	3:C:199:SER:OG	0.47	2.32	7	1
3:C:184:THR:OG1	3:C:208:GLU:OE2	0.47	2.31	10	1
3:C:160:LYS:NZ	3:C:189:LYS:HZ2	0.47	2.08	1	1
2:B:60:ASP:OD1	2:B:60:ASP:O	0.47	2.32	3	2
3:C:196:THR:HG23	3:C:197:GLY:N	0.47	2.24	3	1
2:B:72:ILE:HD12	2:B:72:ILE:H	0.47	1.68	10	2
2:B:30:LEU:CD1	2:B:72:ILE:HD11	0.47	2.39	10	1
1:A:4:A:C8	3:C:168:TRP:CE2	0.47	3.02	1	1
1:A:5:U:O2'	1:A:6:A:O5'	0.47	2.31	5	3
1:A:4:A:OP1	3:C:275:MET:CE	0.47	2.62	3	1
2:B:30:LEU:HB3	2:B:33:ILE:HD11	0.47	1.85	4	2
2:B:60:ASP:CG	2:B:63:THR:OG1	0.47	2.52	4	1
3:C:277:ASP:O	3:C:278:LYS:C	0.47	2.53	4	1
1:A:4:A:OP2	3:C:280:THR:O	0.47	2.32	5	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:10:U:OP1	2:B:30:LEU:O	0.47	2.32	5	1
3:C:277:ASP:OD1	3:C:281:GLY:N	0.47	2.37	6	1
2:B:38:THR:HG23	2:B:39:GLU:N	0.47	2.24	8	1
3:C:193:ASP:OD1	3:C:196:THR:OG1	0.47	2.31	8	1
1:A:1:U:C4	3:C:314:GLU:OE1	0.47	2.67	10	1
3:C:211:SER:O	3:C:215:GLU:OE2	0.47	2.32	4	1
3:C:269:ILE:CG2	3:C:272:ALA:HB2	0.47	2.39	6	2
3:C:167:ASN:C	3:C:169:ASP:H	0.47	2.13	1	2
3:C:282:GLN:C	3:C:284:ARG:H	0.47	2.11	5	4
3:C:221:HIS:CD2	3:C:221:HIS:H	0.47	2.27	4	3
3:C:246:PHE:CG	3:C:247:VAL:N	0.47	2.82	7	4
3:C:274:LEU:C	3:C:274:LEU:CD2	0.47	2.80	5	2
2:B:60:ASP:OD2	2:B:69:TYR:CE2	0.47	2.67	4	1
3:C:160:LYS:O	3:C:233:ALA:HB2	0.47	2.08	5	2
3:C:166:LEU:HD12	3:C:202:PHE:HA	0.47	1.87	6	1
3:C:176:ARG:CD	3:C:185:VAL:HG11	0.47	2.39	6	1
3:C:195:ALA:O	3:C:196:THR:CG2	0.47	2.61	6	1
1:A:5:U:H3	3:C:165:GLY:N	0.47	2.07	7	1
1:A:11:A:H5'	2:B:69:TYR:CA	0.47	2.40	7	1
3:C:249:GLY:O	3:C:313:ILE:CG2	0.47	2.62	8	1
3:C:274:LEU:HD13	3:C:274:LEU:C	0.47	2.30	8	1
3:C:267:GLY:CA	3:C:291:TYR:CE1	0.47	2.97	10	1
2:B:37:GLN:OE1	2:B:92:LEU:HD11	0.47	2.09	7	2
2:B:75:ARG:O	2:B:76:ASP:CG	0.47	2.53	5	9
3:C:283:SER:O	3:C:283:SER:OG	0.47	2.31	1	2
1:A:5:U:O4'	3:C:200:ARG:CZ	0.47	2.63	3	1
3:C:300:VAL:CG2	3:C:303:ASN:HD21	0.47	2.23	3	1
3:C:172:GLU:OE2	3:C:192:LYS:NZ	0.47	2.46	5	1
2:B:85:ARG:O	2:B:88:ASN:CG	0.47	2.54	7	2
3:C:270:ILE:N	3:C:290:THR:O	0.47	2.47	6	1
2:B:28:VAL:HG22	2:B:72:ILE:HD13	0.47	1.87	7	1
3:C:200:ARG:O	3:C:202:PHE:CD2	0.47	2.68	10	3
2:B:52:VAL:HG13	2:B:53:ILE:N	0.47	2.25	4	1
2:B:88:ASN:O	2:B:97:LEU:HB2	0.47	2.09	6	1
2:B:60:ASP:OD1	2:B:64:GLY:N	0.47	2.37	7	1
3:C:271:ASP:O	3:C:271:ASP:OD1	0.47	2.33	8	1
3:C:273:GLN:CG	3:C:274:LEU:N	0.47	2.78	10	1
2:B:42:ILE:C	2:B:44:ASP:N	0.47	2.68	3	6
3:C:161:MET:SD	3:C:216:VAL:HG21	0.47	2.49	2	1
2:B:60:ASP:OD2	2:B:64:GLY:C	0.47	2.54	5	3
1:A:9:A:O2'	1:A:10:U:H5'	0.46	2.10	10	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:5:U:O2	3:C:200:ARG:C	0.46	2.54	4	2
2:B:46:CYS:O	2:B:48:ASN:OD1	0.46	2.33	4	1
3:C:310:ASP:CG	3:C:311:ARG:H	0.46	2.14	10	3
2:B:52:VAL:HG11	2:B:72:ILE:CG2	0.46	2.40	7	2
3:C:167:ASN:OD1	3:C:170:THR:OG1	0.46	2.32	9	1
3:C:305:PHE:CE1	3:C:314:GLU:HG2	0.46	2.45	10	1
3:C:253:ASP:O	3:C:254:VAL:O	0.46	2.33	4	1
3:C:278:LYS:O	3:C:279:ASP:CG	0.46	2.53	6	1
1:A:13:U:OP2	2:B:33:ILE:O	0.46	2.33	7	1
1:A:8:A:OP1	3:C:199:SER:OG	0.46	2.33	9	1
2:B:39:GLU:O	2:B:43:LEU:CB	0.46	2.63	8	3
3:C:283:SER:C	3:C:285:GLY:H	0.46	2.11	2	1
1:A:10:U:OP1	2:B:66:SER:OG	0.46	2.33	3	1
3:C:167:ASN:O	3:C:168:TRP:C	0.46	2.53	10	2
2:B:51:PRO:O	2:B:52:VAL:C	0.46	2.53	5	2
3:C:178:TYR:CD2	3:C:223:LEU:HD13	0.46	2.46	6	1
2:B:48:ASN:O	2:B:49:VAL:CG2	0.46	2.62	9	1
1:A:10:U:C3'	2:B:69:TYR:OH	0.46	2.63	10	1
1:A:7:U:H1'	3:C:202:PHE:CZ	0.46	2.46	3	1
2:B:60:ASP:OD2	2:B:65:ARG:C	0.46	2.54	5	1
3:C:259:PHE:CE1	3:C:263:PHE:CE1	0.46	3.03	5	2
2:B:26:ARG:HE	2:B:103:SER:CB	0.46	2.24	7	1
2:B:37:GLN:HE21	2:B:37:GLN:N	0.46	2.09	7	1
1:A:9:A:HO2'	1:A:10:U:P	0.46	2.33	10	1
2:B:69:TYR:CZ	2:B:71:PHE:CE1	0.46	3.04	10	1
3:C:175:LEU:O	3:C:175:LEU:HD23	0.46	2.11	10	1
3:C:265:GLN:C	3:C:267:GLY:H	0.46	2.14	10	1
3:C:175:LEU:HD12	3:C:190:ILE:HD13	0.46	1.86	2	2
3:C:283:SER:C	3:C:285:GLY:N	0.46	2.68	2	1
3:C:289:VAL:CG2	3:C:291:TYR:CE2	0.46	2.98	5	1
3:C:308:PHE:O	3:C:310:ASP:O	0.46	2.33	9	2
3:C:182:TYR:HH	3:C:221:HIS:CE1	0.46	2.26	1	2
1:A:3:U:OP1	3:C:282:GLN:OE1	0.46	2.34	3	1
3:C:277:ASP:C	3:C:279:ASP:H	0.46	2.14	9	1
3:C:169:ASP:OD1	3:C:192:LYS:CD	0.46	2.64	3	1
3:C:206:SER:O	3:C:206:SER:OG	0.46	2.33	5	1
3:C:291:TYR:O	3:C:292:ASP:CB	0.46	2.64	6	1
2:B:30:LEU:C	2:B:33:ILE:HD11	0.46	2.31	8	1
1:A:7:U:C2	3:C:191:MET:HE1	0.46	2.45	1	1
2:B:82:SER:O	2:B:86:ASN:CG	0.46	2.54	9	3
1:A:6:A:O2'	3:C:236:ARG:CZ	0.46	2.64	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:4:A:C5	3:C:168:TRP:CD1	0.46	3.02	6	1
3:C:223:LEU:N	3:C:223:LEU:HD12	0.46	2.26	9	1
3:C:263:PHE:C	3:C:265:GLN:N	0.46	2.66	9	1
3:C:226:LYS:C	3:C:227:VAL:CG2	0.46	2.85	8	2
3:C:275:MET:HB2	3:C:286:PHE:CE1	0.46	2.46	1	1
3:C:163:ILE:HG22	3:C:166:LEU:CD2	0.46	2.36	2	1
2:B:32:SER:OG	2:B:95:ARG:CG	0.46	2.63	3	1
3:C:226:LYS:HZ1	3:C:280:THR:H	0.46	1.54	5	1
2:B:27:VAL:HG22	2:B:28:VAL:N	0.46	2.25	6	1
1:A:3:U:O4'	3:C:288:PHE:CZ	0.46	2.69	1	1
1:A:9:A:N6	2:B:102:SER:OG	0.46	2.40	1	1
1:A:10:U:O4'	2:B:69:TYR:CB	0.46	2.64	1	1
3:C:187:ASP:O	3:C:206:SER:CB	0.46	2.64	1	2
2:B:76:ASP:OD2	2:B:77:LEU:N	0.46	2.49	2	1
3:C:309:LYS:C	3:C:311:ARG:H	0.46	2.12	2	1
3:C:280:THR:O	3:C:280:THR:OG1	0.46	2.31	6	2
1:A:10:U:O2'	1:A:11:A:C8	0.46	2.59	8	1
3:C:277:ASP:OD1	3:C:277:ASP:C	0.45	2.55	5	3
3:C:292:ASP:OD1	3:C:292:ASP:C	0.45	2.54	1	4
1:A:4:A:C6	3:C:168:TRP:CH2	0.45	3.04	2	2
2:B:76:ASP:CG	2:B:77:LEU:H	0.45	2.14	2	1
2:B:91:GLN:NE2	2:B:96:PHE:CZ	0.45	2.85	9	1
3:C:169:ASP:OD1	3:C:169:ASP:C	0.45	2.55	8	1
2:B:22:ASN:ND2	2:B:101:TYR:CD2	0.45	2.84	10	1
2:B:46:CYS:C	2:B:48:ASN:H	0.45	2.14	7	4
3:C:178:TYR:O	3:C:178:TYR:CD1	0.45	2.70	8	1
1:A:1:U:C2	1:A:2:A:C6	0.45	3.05	9	1
3:C:250:ILE:O	3:C:285:GLY:C	0.45	2.55	9	1
1:A:2:A:C2	1:A:3:U:C6	0.45	3.04	1	1
2:B:81:ALA:C	2:B:85:ARG:HE	0.45	2.14	2	1
2:B:35:TYR:OH	2:B:59:PHE:CB	0.45	2.65	5	1
3:C:223:LEU:N	3:C:223:LEU:CD2	0.45	2.78	6	1
1:A:1:U:C2	1:A:2:A:C5	0.45	3.04	9	1
2:B:43:LEU:HD13	2:B:44:ASP:OD1	0.45	2.11	9	1
3:C:226:LYS:HZ1	3:C:278:LYS:NZ	0.45	2.06	2	1
1:A:10:U:O2'	1:A:11:A:OP2	0.45	2.33	3	1
1:A:11:A:C4	2:B:56:LYS:NZ	0.45	2.74	3	1
1:A:6:A:H61	3:C:234:ILE:H	0.45	1.53	6	1
3:C:303:ASN:O	3:C:304:LYS:C	0.45	2.55	6	2
1:A:12:A:O4'	2:B:67:LYS:C	0.45	2.55	7	1
3:C:276:LEU:N	3:C:276:LEU:CD2	0.45	2.68	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:C:161:MET:CE	3:C:217:VAL:HG22	0.45	2.42	9	1
1:A:4:A:OP2	3:C:277:ASP:OD1	0.45	2.34	4	1
3:C:167:ASN:OD1	3:C:167:ASN:C	0.45	2.54	6	1
3:C:250:ILE:O	3:C:286:PHE:CA	0.45	2.65	9	1
3:C:161:MET:HE2	3:C:163:ILE:HD13	0.45	1.88	10	1
3:C:307:ASP:OD1	3:C:307:ASP:C	0.45	2.55	2	1
3:C:310:ASP:C	3:C:310:ASP:OD1	0.45	2.55	2	1
3:C:169:ASP:OD1	3:C:192:LYS:NZ	0.45	2.36	3	1
3:C:286:PHE:CD1	3:C:286:PHE:C	0.45	2.89	8	2
1:A:7:U:O2	3:C:202:PHE:CE2	0.45	2.69	6	1
3:C:191:MET:CB	3:C:202:PHE:CZ	0.45	2.99	6	1
1:A:1:U:O2	1:A:2:A:C6	0.45	2.70	9	1
1:A:8:A:C2	2:B:29:TYR:CD1	0.45	3.05	9	1
3:C:208:GLU:CD	3:C:209:LYS:H	0.45	2.14	10	1
1:A:5:U:O2	3:C:201:GLY:C	0.45	2.55	1	1
3:C:185:VAL:HG22	3:C:207:PHE:CE1	0.45	2.46	10	2
2:B:58:MET:O	2:B:69:TYR:O	0.45	2.35	4	1
3:C:200:ARG:N	3:C:200:ARG:HE	0.45	2.10	4	1
3:C:244:LYS:N	3:C:317:ARG:HH12	0.45	2.09	5	1
3:C:262:PHE:C	3:C:264:SER:N	0.45	2.66	6	1
3:C:276:LEU:C	3:C:282:GLN:O	0.45	2.55	8	1
3:C:165:GLY:O	3:C:228:ILE:HG22	0.45	2.12	9	1
2:B:29:TYR:N	2:B:29:TYR:CD1	0.45	2.82	5	2
3:C:171:THR:O	3:C:172:GLU:C	0.45	2.55	4	1
1:A:10:U:OP2	2:B:65:ARG:NH2	0.45	2.49	6	1
3:C:178:TYR:CD2	3:C:223:LEU:CD2	0.45	3.00	8	2
3:C:174:ASN:OD1	3:C:174:ASN:C	0.44	2.55	1	1
1:A:2:A:N6	3:C:246:PHE:CD1	0.44	2.85	2	2
1:A:11:A:H2'	1:A:12:A:C8	0.44	2.47	2	1
3:C:265:GLN:CG	3:C:266:TRP:N	0.44	2.80	5	2
2:B:56:LYS:CG	2:B:58:MET:SD	0.44	3.05	4	1
3:C:167:ASN:ND2	3:C:169:ASP:O	0.44	2.50	5	1
3:C:173:ASP:OD1	3:C:176:ARG:NH2	0.44	2.50	5	1
3:C:255:ARG:H	3:C:255:ARG:NE	0.44	2.10	6	1
3:C:262:PHE:CD2	3:C:263:PHE:CD1	0.44	3.05	6	1
1:A:11:A:C3'	2:B:69:TYR:H	0.44	2.09	7	1
3:C:167:ASN:CG	3:C:168:TRP:H	0.44	2.15	7	2
3:C:245:ILE:C	3:C:245:ILE:CD1	0.44	2.78	9	1
3:C:291:TYR:C	3:C:293:SER:H	0.44	2.15	9	1
3:C:274:LEU:CD1	3:C:275:MET:O	0.44	2.64	2	1
3:C:178:TYR:CD1	3:C:178:TYR:O	0.44	2.71	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:59:PHE:O	2:B:61:PRO:CD	0.44	2.65	1	5
3:C:224:ASP:OD1	3:C:224:ASP:O	0.44	2.36	7	3
1:A:12:A:O2'	1:A:13:U:H5'	0.44	2.12	5	2
3:C:303:ASN:HD21	3:C:306:ILE:HD11	0.44	1.72	3	1
2:B:37:GLN:CD	2:B:41:GLN:HE21	0.44	2.15	4	1
3:C:294:ALA:O	3:C:295:ASP:C	0.44	2.56	5	1
3:C:264:SER:C	3:C:266:TRP:N	0.44	2.69	6	2
1:A:11:A:C3'	2:B:68:GLY:C	0.44	2.80	7	1
1:A:9:A:H5''	2:B:69:TYR:CD2	0.44	2.44	9	1
2:B:71:PHE:C	2:B:72:ILE:HD12	0.44	2.32	9	1
2:B:31:GLY:C	2:B:33:ILE:H	0.44	2.15	2	1
2:B:49:VAL:HG12	2:B:50:GLY:N	0.44	2.27	4	1
3:C:251:GLY:N	3:C:252:PRO:HD2	0.44	2.26	9	3
2:B:60:ASP:OD1	2:B:60:ASP:C	0.44	2.55	7	1
3:C:170:THR:CB	3:C:192:LYS:NZ	0.44	2.81	9	1
3:C:317:ARG:NH1	3:C:317:ARG:CB	0.44	2.80	10	1
3:C:275:MET:C	3:C:283:SER:OG	0.44	2.56	3	1
3:C:300:VAL:HG23	3:C:303:ASN:HD21	0.44	1.71	3	1
1:A:5:U:C5	3:C:164:GLY:HA2	0.44	2.48	4	1
1:A:5:U:N3	3:C:162:PHE:CE2	0.44	2.84	6	1
3:C:261:GLU:O	3:C:264:SER:OG	0.44	2.33	9	1
3:C:158:SER:OG	3:C:232:ARG:NE	0.44	2.46	1	1
1:A:2:A:O2'	1:A:3:U:OP2	0.44	2.35	5	1
1:A:9:A:H5''	2:B:69:TYR:CE1	0.44	2.48	7	1
1:A:8:A:H2	2:B:29:TYR:CD1	0.44	2.31	9	1
2:B:23:PRO:O	2:B:101:TYR:CD2	0.44	2.71	9	1
1:A:9:A:H4'	2:B:69:TYR:CZ	0.44	2.47	1	1
1:A:10:U:O2	2:B:58:MET:CE	0.44	2.66	1	1
3:C:193:ASP:CG	3:C:196:THR:OG1	0.44	2.55	1	2
1:A:2:A:N1	3:C:319:GLU:O	0.44	2.50	7	1
3:C:289:VAL:HG11	3:C:291:TYR:CZ	0.44	2.47	8	1
2:B:43:LEU:HD23	2:B:44:ASP:OD1	0.44	2.13	10	1
3:C:277:ASP:O	3:C:281:GLY:N	0.44	2.50	1	1
3:C:301:CYS:C	3:C:303:ASN:N	0.44	2.71	5	2
2:B:32:SER:CB	2:B:94:SER:H	0.44	2.25	7	1
3:C:279:ASP:C	3:C:280:THR:CG2	0.44	2.86	7	1
3:C:254:VAL:HG21	3:C:308:PHE:CE2	0.44	2.48	1	1
1:A:6:A:O2'	3:C:236:ARG:NH2	0.44	2.50	2	1
1:A:5:U:O4	3:C:164:GLY:C	0.44	2.56	5	1
2:B:45:LEU:CD2	2:B:90:TYR:OH	0.44	2.65	5	1
3:C:164:GLY:O	3:C:165:GLY:C	0.44	2.56	5	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:11:A:C2	2:B:63:THR:CB	0.44	3.00	7	1
3:C:269:ILE:HG23	3:C:291:TYR:CE2	0.44	2.48	9	1
3:C:176:ARG:CG	3:C:177:GLU:N	0.43	2.81	3	1
3:C:246:PHE:CE1	3:C:247:VAL:C	0.43	2.92	3	1
3:C:318:ALA:O	3:C:319:GLU:C	0.43	2.56	5	1
1:A:5:U:C1'	3:C:201:GLY:O	0.43	2.59	7	1
1:A:11:A:C2'	2:B:69:TYR:HB2	0.43	2.43	7	1
2:B:29:TYR:OH	2:B:101:TYR:O	0.43	2.35	10	1
3:C:253:ASP:O	3:C:254:VAL:C	0.43	2.56	4	1
3:C:277:ASP:O	3:C:281:GLY:O	0.43	2.36	4	1
2:B:31:GLY:CA	2:B:69:TYR:CE1	0.43	3.01	5	1
3:C:270:ILE:CG1	3:C:291:TYR:O	0.43	2.65	6	1
3:C:249:GLY:O	3:C:310:ASP:OD2	0.43	2.36	8	1
1:A:4:A:C5	3:C:168:TRP:CE3	0.43	3.06	1	1
2:B:27:VAL:HG13	2:B:73:GLU:CA	0.43	2.42	1	1
1:A:1:U:O2'	1:A:2:A:C8	0.43	2.57	6	1
1:A:11:A:C3'	2:B:69:TYR:HB2	0.43	2.44	7	1
1:A:2:A:H5''	3:C:284:ARG:HD2	0.43	1.88	9	1
3:C:208:GLU:C	3:C:208:GLU:OE1	0.43	2.56	9	1
1:A:6:A:N3	3:C:162:PHE:CE1	0.43	2.86	2	1
3:C:232:ARG:O	3:C:234:ILE:N	0.43	2.51	4	1
1:A:11:A:H4'	2:B:58:MET:HG2	0.43	1.90	7	1
2:B:38:THR:O	2:B:42:ILE:CD1	0.43	2.64	10	1
2:B:26:ARG:C	2:B:80:SER:OG	0.43	2.56	2	2
2:B:43:LEU:O	2:B:47:SER:CB	0.43	2.66	2	1
1:A:11:A:OP1	2:B:61:PRO:CG	0.43	2.67	3	1
3:C:250:ILE:O	3:C:251:GLY:C	0.43	2.56	4	1
3:C:187:ASP:H	3:C:206:SER:CB	0.43	2.26	5	1
3:C:227:VAL:O	3:C:227:VAL:CG1	0.43	2.65	5	1
3:C:227:VAL:CG1	3:C:273:GLN:OE1	0.43	2.66	6	1
1:A:10:U:OP2	1:A:10:U:C5	0.43	2.71	7	1
2:B:31:GLY:HA2	2:B:69:TYR:CD1	0.43	2.48	7	1
3:C:193:ASP:N	3:C:194:PRO:CD	0.43	2.81	8	1
1:A:4:A:H2	1:A:4:A:OP1	0.43	1.97	10	1
2:B:39:GLU:C	2:B:39:GLU:CD	0.43	2.77	1	1
1:A:9:A:C5	2:B:29:TYR:CE2	0.43	3.07	4	1
2:B:39:GLU:N	2:B:57:MET:SD	0.43	2.92	5	1
3:C:254:VAL:O	3:C:254:VAL:HG23	0.43	2.13	6	1
1:A:12:A:P	2:B:69:TYR:H	0.43	2.35	7	1
2:B:60:ASP:HB3	2:B:66:SER:H	0.43	1.72	8	1
3:C:271:ASP:O	3:C:272:ALA:O	0.43	2.37	8	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:4:A:OP1	1:A:4:A:C2	0.43	2.72	10	1
3:C:310:ASP:OD1	3:C:311:ARG:N	0.43	2.52	1	1
2:B:90:TYR:CD1	2:B:90:TYR:N	0.43	2.85	5	1
2:B:48:ASN:O	2:B:87:LEU:HD11	0.43	2.14	10	1
2:B:81:ALA:O	2:B:85:ARG:CB	0.43	2.67	1	2
2:B:83:ALA:HA	2:B:86:ASN:OD1	0.43	2.14	2	1
1:A:9:A:OP1	2:B:69:TYR:OH	0.43	2.34	7	1
3:C:254:VAL:O	3:C:254:VAL:CG1	0.43	2.62	8	1
1:A:10:U:C6	1:A:10:U:OP1	0.43	2.72	10	1
1:A:7:U:C4'	1:A:8:A:OP2	0.43	2.64	4	2
3:C:299:ARG:O	3:C:302:GLN:CG	0.43	2.67	1	1
3:C:217:VAL:HG13	3:C:218:LYS:N	0.43	2.28	2	1
3:C:174:ASN:C	3:C:174:ASN:OD1	0.43	2.58	3	1
3:C:276:LEU:HD12	3:C:278:LYS:N	0.43	2.29	6	1
1:A:6:A:H5''	1:A:7:U:C5'	0.43	2.43	2	1
2:B:30:LEU:N	2:B:30:LEU:HD22	0.43	2.29	2	1
3:C:197:GLY:O	3:C:198:ARG:C	0.43	2.55	4	1
3:C:207:PHE:CG	3:C:212:SER:OG	0.43	2.68	10	1
3:C:202:PHE:CD1	3:C:202:PHE:C	0.42	2.92	1	1
2:B:49:VAL:HG21	2:B:87:LEU:HD11	0.42	1.90	2	1
2:B:48:ASN:N	2:B:48:ASN:OD1	0.42	2.52	4	1
3:C:185:VAL:HG11	3:C:188:LEU:HD23	0.42	1.91	4	1
1:A:5:U:C2	3:C:164:GLY:CA	0.42	3.02	6	1
3:C:186:THR:OG1	3:C:208:GLU:CA	0.42	2.67	6	1
3:C:308:PHE:CE2	3:C:309:LYS:CG	0.42	3.02	6	1
1:A:9:A:C2	2:B:29:TYR:CG	0.42	3.07	10	1
1:A:11:A:H5''	2:B:61:PRO:HD2	0.42	1.90	1	1
3:C:158:SER:CB	3:C:232:ARG:HE	0.42	2.27	1	1
2:B:76:ASP:CG	2:B:77:LEU:N	0.42	2.72	2	1
3:C:200:ARG:N	3:C:200:ARG:CD	0.42	2.82	4	1
3:C:254:VAL:CG2	3:C:255:ARG:N	0.42	2.82	4	1
3:C:190:ILE:C	3:C:191:MET:SD	0.42	2.98	5	1
3:C:283:SER:O	3:C:284:ARG:C	0.42	2.57	6	1
1:A:4:A:OP1	1:A:4:A:H2	0.42	1.96	7	1
3:C:163:ILE:CD1	3:C:175:LEU:HD21	0.42	2.45	7	1
1:A:12:A:C6	2:B:58:MET:SD	0.42	3.12	8	1
2:B:42:ILE:O	2:B:43:LEU:C	0.42	2.58	3	5
3:C:275:MET:CB	3:C:286:PHE:CE1	0.42	3.03	1	1
2:B:71:PHE:N	2:B:71:PHE:CD1	0.42	2.86	3	1
1:A:10:U:H5'	2:B:69:TYR:CD2	0.42	2.49	4	1
3:C:215:GLU:CD	3:C:215:GLU:N	0.42	2.73	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:C:262:PHE:CD2	3:C:308:PHE:CD1	0.42	3.07	9	1
2:B:88:ASN:CG	2:B:89:GLY:N	0.42	2.73	10	1
3:C:250:ILE:HG21	3:C:274:LEU:HD22	0.42	1.91	10	1
1:A:10:U:H5'	2:B:71:PHE:HZ	0.42	1.74	2	1
2:B:48:ASN:O	2:B:49:VAL:C	0.42	2.56	2	2
1:A:5:U:O2	1:A:5:U:O5'	0.42	2.37	3	1
3:C:168:TRP:O	3:C:197:GLY:O	0.42	2.37	3	1
2:B:45:LEU:HD21	2:B:92:LEU:HD22	0.42	1.90	8	1
2:B:90:TYR:CZ	2:B:92:LEU:HD13	0.42	2.49	2	1
3:C:211:SER:C	3:C:215:GLU:OE2	0.42	2.57	4	1
1:A:7:U:H5	3:C:204:PHE:CZ	0.42	2.32	6	1
2:B:84:VAL:CG1	2:B:99:CYS:CB	0.42	2.98	6	1
1:A:2:A:C6	3:C:319:GLU:O	0.42	2.72	7	1
2:B:44:ASP:OD1	2:B:44:ASP:O	0.42	2.38	7	1
3:C:317:ARG:C	3:C:319:GLU:N	0.42	2.72	7	1
1:A:10:U:C2'	1:A:11:A:C8	0.42	2.95	8	1
3:C:222:ILE:CG2	3:C:226:LYS:O	0.42	2.68	10	1
1:A:10:U:O4	2:B:71:PHE:CE2	0.42	2.73	1	1
3:C:264:SER:O	3:C:265:GLN:O	0.42	2.37	4	2
1:A:8:A:H4'	2:B:95:ARG:HH22	0.42	1.75	4	1
2:B:47:SER:C	2:B:49:VAL:H	0.42	2.17	5	1
2:B:60:ASP:HB3	2:B:66:SER:N	0.42	2.30	5	1
3:C:252:PRO:C	3:C:254:VAL:H	0.42	2.18	5	1
3:C:269:ILE:O	3:C:269:ILE:HG23	0.42	2.13	5	1
2:B:33:ILE:N	2:B:33:ILE:CD1	0.42	2.81	8	1
3:C:284:ARG:O	3:C:285:GLY:C	0.42	2.57	2	1
2:B:83:ALA:O	2:B:84:VAL:C	0.42	2.56	6	1
3:C:205:LEU:HD13	3:C:207:PHE:CE2	0.42	2.49	7	1
1:A:10:U:C5	2:B:63:THR:HG21	0.42	2.50	8	1
1:A:5:U:O4'	3:C:201:GLY:O	0.42	2.37	9	1
1:A:2:A:HO2'	1:A:3:U:P	0.42	2.37	1	1
2:B:32:SER:OG	2:B:94:SER:CB	0.42	2.68	1	1
2:B:85:ARG:C	2:B:85:ARG:CD	0.42	2.87	1	1
2:B:35:TYR:OH	2:B:59:PHE:CD2	0.42	2.71	2	1
3:C:168:TRP:CE2	3:C:198:ARG:CZ	0.42	3.03	10	1
3:C:213:VAL:CG2	3:C:214:ASP:N	0.42	2.82	10	1
3:C:262:PHE:O	3:C:265:GLN:CG	0.42	2.67	1	2
3:C:193:ASP:OD2	3:C:199:SER:OG	0.42	2.29	2	1
1:A:5:U:O2	3:C:162:PHE:CE2	0.42	2.72	9	1
2:B:38:THR:C	2:B:57:MET:SD	0.42	2.98	10	1
3:C:186:THR:CG2	3:C:187:ASP:N	0.42	2.83	3	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:C:300:VAL:HG23	3:C:303:ASN:ND2	0.42	2.30	3	1
3:C:221:HIS:CD2	3:C:230:PRO:HG3	0.42	2.49	5	2
3:C:180:GLY:C	3:C:182:TYR:N	0.42	2.72	10	1
2:B:80:SER:O	2:B:84:VAL:CG2	0.41	2.67	2	1
3:C:162:PHE:O	3:C:163:ILE:C	0.41	2.58	8	2
3:C:226:LYS:NZ	3:C:279:ASP:CA	0.41	2.83	7	1
1:A:10:U:C2	2:B:58:MET:HE2	0.41	2.50	1	1
3:C:244:LYS:O	3:C:318:ALA:CB	0.41	2.68	6	3
3:C:282:GLN:C	3:C:284:ARG:N	0.41	2.74	5	2
2:B:57:MET:SD	2:B:70:ALA:CB	0.41	3.07	2	1
1:A:3:U:O4'	3:C:288:PHE:CE1	0.41	2.73	3	1
2:B:27:VAL:CG1	2:B:102:SER:N	0.41	2.83	6	1
2:B:32:SER:OG	2:B:32:SER:O	0.41	2.37	9	2
3:C:255:ARG:O	3:C:256:PRO:C	0.41	2.58	7	1
3:C:271:ASP:O	3:C:290:THR:OG1	0.41	2.30	1	1
3:C:232:ARG:O	3:C:234:ILE:CD1	0.41	2.68	2	1
1:A:11:A:H3'	1:A:12:A:C8	0.41	2.51	5	1
3:C:186:THR:N	3:C:206:SER:O	0.41	2.50	5	1
1:A:11:A:O5'	2:B:58:MET:HB3	0.41	2.14	7	1
1:A:11:A:C1'	2:B:66:SER:O	0.41	2.64	7	1
1:A:12:A:C8	2:B:67:LYS:C	0.41	2.91	7	1
1:A:2:A:C4'	3:C:286:PHE:CG	0.41	3.01	10	1
1:A:8:A:C5'	2:B:95:ARG:NH2	0.41	2.84	10	1
1:A:10:U:C5'	2:B:69:TYR:OH	0.41	2.62	10	1
3:C:175:LEU:HD23	3:C:175:LEU:C	0.41	2.35	10	1
2:B:88:ASN:O	2:B:97:LEU:HD12	0.41	2.15	1	1
3:C:158:SER:O	3:C:159:CYS:CB	0.41	2.68	1	2
3:C:301:CYS:O	3:C:302:GLN:C	0.41	2.58	5	2
3:C:186:THR:HG23	3:C:187:ASP:N	0.41	2.30	3	1
2:B:54:ASN:HD22	2:B:73:GLU:CD	0.41	2.17	5	1
2:B:27:VAL:HG22	2:B:73:GLU:HG3	0.41	1.91	7	1
1:A:8:A:O2'	1:A:9:A:H5'	0.41	2.15	8	1
1:A:4:A:C2	3:C:168:TRP:CZ3	0.41	3.09	9	1
1:A:8:A:N3	2:B:29:TYR:CG	0.41	2.89	9	1
2:B:62:GLN:O	2:B:63:THR:C	0.41	2.58	9	1
1:A:4:A:N1	3:C:279:ASP:O	0.41	2.52	10	1
3:C:161:MET:CE	3:C:163:ILE:HD13	0.41	2.46	10	1
2:B:59:PHE:O	2:B:61:PRO:HD3	0.41	2.15	5	1
2:B:29:TYR:C	2:B:30:LEU:HD12	0.41	2.35	6	1
2:B:65:ARG:NH1	3:C:200:ARG:NH2	0.41	2.68	6	1
1:A:8:A:OP1	3:C:192:LYS:O	0.41	2.39	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:31:GLY:HA2	2:B:69:TYR:CE1	0.41	2.50	7	1
3:C:175:LEU:HD22	3:C:190:ILE:HD11	0.41	1.92	8	1
2:B:87:LEU:O	2:B:87:LEU:CG	0.41	2.67	1	1
3:C:271:ASP:O	3:C:290:THR:CB	0.41	2.69	1	1
3:C:159:CYS:SG	3:C:213:VAL:CG2	0.41	3.08	2	1
1:A:9:A:C2'	1:A:10:U:H6	0.41	2.26	3	1
3:C:282:GLN:O	3:C:286:PHE:CE2	0.41	2.74	3	1
1:A:5:U:C6	1:A:5:U:P	0.41	3.14	4	1
3:C:270:ILE:HG22	3:C:271:ASP:N	0.41	2.29	4	1
3:C:186:THR:OG1	3:C:206:SER:O	0.41	2.34	5	1
3:C:301:CYS:O	3:C:303:ASN:N	0.41	2.53	5	1
3:C:289:VAL:CG2	3:C:291:TYR:CE1	0.41	3.03	6	1
3:C:167:ASN:O	3:C:168:TRP:CD2	0.41	2.74	7	1
3:C:186:THR:HG22	3:C:206:SER:O	0.41	2.16	7	1
1:A:6:A:C5'	1:A:8:A:OP2	0.41	2.66	8	1
3:C:273:GLN:HG3	3:C:274:LEU:N	0.41	2.30	10	1
1:A:9:A:H4'	2:B:69:TYR:CD2	0.41	2.51	3	1
3:C:200:ARG:O	3:C:202:PHE:CE2	0.41	2.72	3	1
3:C:159:CYS:CB	3:C:209:LYS:O	0.41	2.69	4	1
3:C:166:LEU:C	3:C:166:LEU:CD1	0.41	2.89	4	1
3:C:226:LYS:CB	3:C:226:LYS:NZ	0.41	2.83	4	1
1:A:8:A:N6	2:B:101:TYR:OH	0.41	2.54	6	1
3:C:264:SER:O	3:C:265:GLN:C	0.41	2.59	6	1
3:C:305:PHE:CE2	3:C:314:GLU:CG	0.41	3.04	6	1
2:B:28:VAL:HG13	2:B:98:LYS:O	0.41	2.14	8	1
3:C:174:ASN:CG	3:C:175:LEU:N	0.41	2.73	10	1
3:C:178:TYR:CG	3:C:223:LEU:CD1	0.41	3.04	1	1
1:A:9:A:C6	2:B:29:TYR:CZ	0.41	3.08	4	2
2:B:52:VAL:O	2:B:53:ILE:HG12	0.41	2.16	2	1
2:B:59:PHE:CD1	2:B:59:PHE:N	0.41	2.86	3	1
1:A:11:A:O2'	2:B:67:LYS:N	0.41	2.54	7	1
1:A:2:A:O2'	1:A:3:U:O5'	0.41	2.38	1	1
2:B:35:TYR:CE1	2:B:59:PHE:CD1	0.41	3.09	2	1
3:C:306:ILE:HD12	3:C:315:ILE:HD11	0.41	1.91	2	1
3:C:309:LYS:C	3:C:311:ARG:N	0.41	2.74	2	1
3:C:193:ASP:C	3:C:195:ALA:H	0.41	2.19	3	1
2:B:31:GLY:N	2:B:33:ILE:HD11	0.41	2.31	4	1
3:C:251:GLY:O	3:C:254:VAL:CG1	0.41	2.69	4	1
1:A:6:A:C8	3:C:239:GLN:OE1	0.41	2.74	6	1
3:C:281:GLY:C	3:C:283:SER:N	0.41	2.71	6	1
1:A:6:A:N9	3:C:162:PHE:CE1	0.41	2.89	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:11:A:N3	2:B:60:ASP:HB2	0.41	2.31	7	1
1:A:12:A:C8	2:B:67:LYS:CA	0.41	3.00	7	1
3:C:174:ASN:ND2	3:C:175:LEU:N	0.41	2.69	9	1
3:C:289:VAL:CG1	3:C:291:TYR:CE1	0.41	3.02	9	1
1:A:6:A:OP1	3:C:200:ARG:NH2	0.41	2.54	10	1
1:A:7:U:OP1	1:A:8:A:N7	0.41	2.53	10	1
3:C:294:ALA:O	3:C:297:VAL:CG1	0.41	2.69	10	1
2:B:27:VAL:CG2	2:B:102:SER:O	0.41	2.69	1	1
1:A:3:U:H5'	3:C:286:PHE:CE1	0.41	2.51	3	1
3:C:266:TRP:CD1	3:C:266:TRP:C	0.41	2.94	3	1
3:C:170:THR:O	3:C:190:ILE:CD1	0.41	2.69	4	1
1:A:8:A:C2	2:B:99:CYS:O	0.41	2.73	6	1
3:C:270:ILE:CD1	3:C:291:TYR:O	0.41	2.69	6	1
1:A:3:U:HO2'	1:A:4:A:P	0.41	2.39	7	1
3:C:161:MET:SD	3:C:162:PHE:C	0.41	2.99	7	1
1:A:2:A:C2	1:A:3:U:C4	0.40	3.09	1	1
2:B:30:LEU:CD2	2:B:42:ILE:HD12	0.40	2.47	6	1
3:C:216:VAL:O	3:C:216:VAL:CG1	0.40	2.67	6	1
3:C:255:ARG:N	3:C:255:ARG:NE	0.40	2.69	6	1
3:C:188:LEU:C	3:C:188:LEU:CD1	0.40	2.80	8	1
2:B:44:ASP:O	2:B:44:ASP:OD1	0.40	2.39	4	1
1:A:10:U:OP2	2:B:30:LEU:O	0.40	2.39	5	1
3:C:289:VAL:HG21	3:C:291:TYR:CZ	0.40	2.52	5	1
2:B:38:THR:O	2:B:42:ILE:HG12	0.40	2.16	7	1
3:C:170:THR:H	3:C:192:LYS:HD2	0.40	1.77	8	1
2:B:69:TYR:CZ	2:B:71:PHE:CZ	0.40	3.09	10	1
1:A:5:U:H6	1:A:5:U:H2'	0.40	1.53	1	1
3:C:272:ALA:C	3:C:273:GLN:CG	0.40	2.90	2	2
3:C:273:GLN:O	3:C:288:PHE:O	0.40	2.39	3	1
3:C:263:PHE:HB3	3:C:269:ILE:HD12	0.40	1.93	5	1
3:C:240:ASP:OD1	3:C:244:LYS:NZ	0.40	2.53	8	1
2:B:35:TYR:CZ	2:B:59:PHE:CD1	0.40	3.09	9	1
3:C:167:ASN:C	3:C:169:ASP:N	0.40	2.74	1	1
3:C:200:ARG:NE	3:C:202:PHE:CE2	0.40	2.89	2	1
3:C:264:SER:HA	3:C:269:ILE:HD13	0.40	1.92	2	1
1:A:11:A:N3	2:B:56:LYS:NZ	0.40	2.60	3	1
2:B:84:VAL:CG1	2:B:99:CYS:SG	0.40	3.09	4	1
3:C:291:TYR:CD1	3:C:291:TYR:N	0.40	2.90	7	1
2:B:39:GLU:CD	2:B:39:GLU:C	0.40	2.80	9	1
3:C:275:MET:CG	3:C:286:PHE:CE2	0.40	3.05	9	1
3:C:251:GLY:O	3:C:254:VAL:N	0.40	2.49	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:31:GLY:O	2:B:33:ILE:N	0.40	2.55	2	1
2:B:51:PRO:C	2:B:52:VAL:O	0.40	2.60	2	1
3:C:297:VAL:C	3:C:299:ARG:N	0.40	2.75	5	1
2:B:60:ASP:CG	2:B:66:SER:C	0.40	2.79	8	1
3:C:233:ALA:O	3:C:234:ILE:CG1	0.40	2.70	8	1
3:C:250:ILE:CD1	3:C:259:PHE:CD1	0.40	3.04	9	1

6.3 Torsion angles [\(i\)](#)

6.3.1 Protein backbone [\(i\)](#)

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	B	81/84 (96%)	56±2 (69±3%)	13±2 (16±3%)	12±2 (15±2%)	0	4
3	C	162/167 (97%)	119±3 (74±2%)	26±3 (16±2%)	17±2 (10±1%)	1	9
All	All	2430/2510 (97%)	1752 (72%)	392 (16%)	286 (12%)	1	7

All 83 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
2	B	26	ARG	10
2	B	47	SER	10
2	B	76	ASP	10
2	B	77	LEU	10
2	B	91	GLN	10
2	B	43	LEU	8
3	C	259	PHE	8
3	C	265	GLN	8
3	C	283	SER	8
3	C	200	ARG	8
2	B	48	ASN	7
2	B	49	VAL	7
3	C	258	GLU	7
3	C	212	SER	7
3	C	168	TRP	6

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Mol	Chain	Res	Type	Models (Total)
2	B	88	ASN	6
2	B	97	LEU	6
3	C	159	CYS	5
3	C	180	GLY	5
3	C	227	VAL	5
3	C	309	LYS	5
2	B	52	VAL	5
2	B	102	SER	5
3	C	267	GLY	4
2	B	68	GLY	4
3	C	277	ASP	4
2	B	61	PRO	4
3	C	177	GLU	4
3	C	192	LYS	4
3	C	269	ILE	4
3	C	262	PHE	3
3	C	273	GLN	3
3	C	304	LYS	3
3	C	242	THR	3
3	C	285	GLY	3
3	C	310	ASP	3
3	C	280	THR	3
3	C	311	ARG	3
3	C	195	ALA	3
3	C	264	SER	3
3	C	252	PRO	3
3	C	318	ALA	3
2	B	53	ILE	2
3	C	210	PRO	2
3	C	249	GLY	2
2	B	44	ASP	2
2	B	103	SER	2
2	B	93	GLY	2
3	C	190	ILE	2
3	C	272	ALA	2
2	B	35	TYR	2
2	B	23	PRO	2
2	B	51	PRO	2
3	C	279	ASP	2
3	C	196	THR	2
3	C	312	LYS	2
3	C	197	GLY	2

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Mol	Chain	Res	Type	Models (Total)
3	C	319	GLU	1
2	B	31	GLY	1
2	B	32	SER	1
3	C	286	PHE	1
3	C	194	PRO	1
3	C	233	ALA	1
3	C	254	VAL	1
3	C	276	LEU	1
3	C	222	ILE	1
3	C	225	GLY	1
3	C	235	PRO	1
3	C	253	ASP	1
3	C	268	THR	1
3	C	216	VAL	1
3	C	217	VAL	1
3	C	292	ASP	1
3	C	256	PRO	1
3	C	257	LYS	1
3	C	316	LYS	1
3	C	317	ARG	1
3	C	255	ARG	1
3	C	278	LYS	1
3	C	173	ASP	1
3	C	181	LYS	1
3	C	208	GLU	1
3	C	266	TRP	1

6.3.2 Protein sidechains [i](#)

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	B	72/74 (97%)	58±2 (80±3%)	14±2 (20±3%)	4	34
3	C	140/145 (97%)	115±3 (82±2%)	25±3 (18±2%)	4	39
All	All	2120/2190 (97%)	1730 (82%)	390 (18%)	4	37

All 129 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)
2	B	90	TYR	10
2	B	37	GLN	9
2	B	97	LEU	9
3	C	171	THR	9
3	C	222	ILE	9
3	C	276	LEU	9
2	B	88	ASN	8
2	B	66	SER	7
3	C	245	ILE	7
3	C	280	THR	7
2	B	48	ASN	6
2	B	59	PHE	6
3	C	159	CYS	6
3	C	205	LEU	6
3	C	221	HIS	6
2	B	52	VAL	6
3	C	186	THR	6
3	C	193	ASP	6
3	C	246	PHE	6
3	C	190	ILE	6
2	B	41	GLN	5
3	C	265	GLN	5
3	C	269	ILE	5
2	B	25	SER	5
2	B	58	MET	5
3	C	168	TRP	5
3	C	189	LYS	5
2	B	91	GLN	5
3	C	172	GLU	5
3	C	226	LYS	5
2	B	94	SER	4
3	C	188	LEU	4
3	C	192	LYS	4
3	C	223	LEU	4
3	C	227	VAL	4
3	C	229	ASP	4
3	C	200	ARG	4
3	C	236	ARG	4
3	C	274	LEU	4
3	C	283	SER	4
3	C	255	ARG	4
3	C	289	VAL	4
2	B	55	LEU	3

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Mol	Chain	Res	Type	Models (Total)
2	B	57	MET	3
3	C	206	SER	3
2	B	80	SER	3
2	B	99	CYS	3
3	C	175	LEU	3
3	C	244	LYS	3
3	C	266	TRP	3
3	C	275	MET	3
3	C	311	ARG	3
2	B	33	ILE	3
2	B	77	LEU	3
2	B	102	SER	3
3	C	250	ILE	3
3	C	319	GLU	3
2	B	84	VAL	3
2	B	35	TYR	2
2	B	46	CYS	2
3	C	273	GLN	2
3	C	286	PHE	2
2	B	26	ARG	2
2	B	45	LEU	2
2	B	86	ASN	2
3	C	161	MET	2
3	C	213	VAL	2
3	C	312	LYS	2
3	C	174	ASN	2
3	C	264	SER	2
2	B	49	VAL	2
2	B	60	ASP	2
3	C	181	LYS	2
3	C	242	THR	2
3	C	292	ASP	2
2	B	63	THR	2
3	C	271	ASP	2
2	B	103	SER	2
3	C	231	LYS	2
3	C	278	LYS	2
3	C	284	ARG	2
3	C	309	LYS	2
2	B	28	VAL	2
3	C	209	LYS	2
3	C	316	LYS	2

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Mol	Chain	Res	Type	Models (Total)
3	C	196	THR	2
2	B	98	LYS	2
2	B	39	GLU	1
2	B	85	ARG	1
3	C	191	MET	1
3	C	277	ASP	1
3	C	314	GLU	1
3	C	317	ARG	1
2	B	53	ILE	1
2	B	92	LEU	1
3	C	169	ASP	1
3	C	258	GLU	1
3	C	290	THR	1
3	C	303	ASN	1
2	B	29	TYR	1
2	B	32	SER	1
2	B	95	ARG	1
3	C	163	ILE	1
3	C	215	GLU	1
3	C	270	ILE	1
3	C	185	VAL	1
3	C	187	ASP	1
3	C	279	ASP	1
2	B	43	LEU	1
2	B	101	TYR	1
3	C	247	VAL	1
3	C	261	GLU	1
3	C	262	PHE	1
3	C	300	VAL	1
3	C	306	ILE	1
2	B	22	ASN	1
3	C	198	ARG	1
3	C	256	PRO	1
3	C	302	GLN	1
2	B	75	ARG	1
3	C	160	LYS	1
3	C	212	SER	1
3	C	167	ASN	1
3	C	170	THR	1
3	C	301	CYS	1
2	B	69	TYR	1
2	B	87	LEU	1

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Mol	Chain	Res	Type	Models (Total)
3	C	184	THR	1
3	C	208	GLU	1

6.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers	Suiteness
1	A	12/13 (92%)	6±1 (46±11%)	1±1 (8±8%)	0.25±0.07
All	All	120/130 (92%)	55 (46%)	9 (8%)	0.25

The overall RNA backbone suiteness is 0.25.

All unique RNA backbone outliers are listed below:

Mol	Chain	Res	Type	Models (Total)
1	A	3	U	8
1	A	13	U	7
1	A	4	A	6
1	A	10	U	6
1	A	12	A	6
1	A	2	A	5
1	A	6	A	5
1	A	9	A	5
1	A	7	U	3
1	A	11	A	3
1	A	5	U	1

All unique RNA pucker outliers are listed below:

Mol	Chain	Res	Type	Models (Total)
1	A	5	U	3
1	A	6	A	3
1	A	10	U	3

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

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

6.5 Carbohydrates [i](#)

There are no monosaccharides 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 (i)

The completeness of assignment taking into account all chemical shift lists is 25% for the well-defined parts and 25% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list_1*

7.1.1 Bookkeeping (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	922
Number of shifts mapped to atoms	922
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	1

7.1.2 Chemical shift referencing (i)

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction \pm precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	80	-0.14 ± 0.11	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	65	0.11 ± 0.16	None needed (< 0.5 ppm)
$^{13}\text{C}'$	77	-0.38 ± 0.12	None needed (< 0.5 ppm)
^{15}N	78	0.64 ± 0.38	None needed (imprecise)

7.1.3 Completeness of resonance assignments (i)

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 25%, i.e. 902 atoms were assigned a chemical shift out of a possible 3549. 0 out of 30 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	392/1221 (32%)	163/500 (33%)	153/488 (31%)	76/233 (33%)
Sidechain	477/1819 (26%)	347/1169 (30%)	121/568 (21%)	9/82 (11%)

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	Total	¹H	¹³C	¹⁵N
Aromatic	33/274 (12%)	33/133 (25%)	0/137 (0%)	0/4 (0%)
Sugar	0/143 (0%)	0/78 (0%)	0/65 (0%)	0/0 (—%)
Base	0/92 (0%)	0/53 (0%)	0/26 (0%)	0/13 (0%)
Overall	902/3549 (25%)	543/1933 (28%)	274/1284 (21%)	85/332 (26%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 25%, i.e. 921 atoms were assigned a chemical shift out of a possible 3650. 0 out of 30 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹H	¹³C	¹⁵N
Backbone	402/1254 (32%)	167/513 (33%)	157/502 (31%)	78/239 (33%)
Sidechain	486/1879 (26%)	353/1206 (29%)	123/586 (21%)	10/87 (11%)
Aromatic	33/282 (12%)	33/137 (24%)	0/139 (0%)	0/6 (0%)
Sugar	0/143 (0%)	0/78 (0%)	0/65 (0%)	0/0 (—%)
Base	0/92 (0%)	0/53 (0%)	0/26 (0%)	0/13 (0%)
Overall	921/3650 (25%)	553/1987 (28%)	280/1318 (21%)	88/345 (26%)

7.1.4 Statistically unusual chemical shifts [i](#)

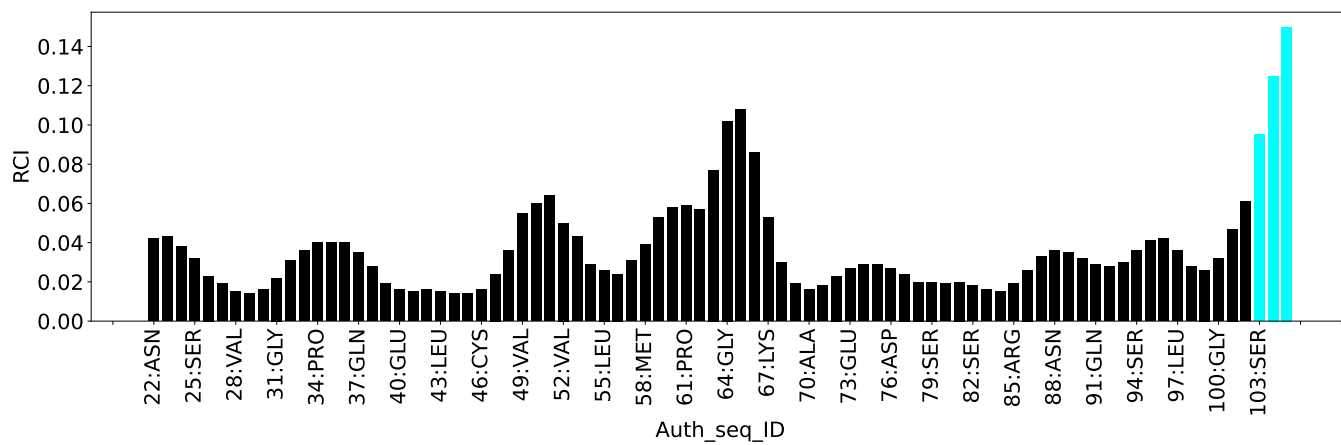
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	B	23	PRO	HA	1.69	2.78 – 6.00	-8.4

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

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

Random coil index (RCI) for chain B:



8 NMR restraints analysis

8.1 Conformationally restricting restraints

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

Description	Value
Total distance restraints	4935
Intra-residue ($ i-j =0$)	1296
Sequential ($ i-j =1$)	1018
Medium range ($ i-j >1$ and $ i-j <5$)	672
Long range ($ i-j \geq 5$)	1524
Inter-chain	293
Hydrogen bond restraints	132
Disulfide bond restraints	0
Total dihedral-angle restraints	202
Number of unmapped restraints	0
Number of restraints per residue	19.5
Number of long range restraints per residue ¹	6.1

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

8.2 Residual restraint violations

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

8.2.1 Average number of distance violations per model

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

Bins (Å)	Average number of violations per model	Max (Å)
0.1-0.2 (Small)	54.1	0.2
0.2-0.5 (Medium)	12.1	0.5
>0.5 (Large)	9.0	2.88

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)	17.0	6.8
10.0-20.0 (Medium)	None	None
>20.0 (Large)	None	None

9 Distance violation analysis [i](#)

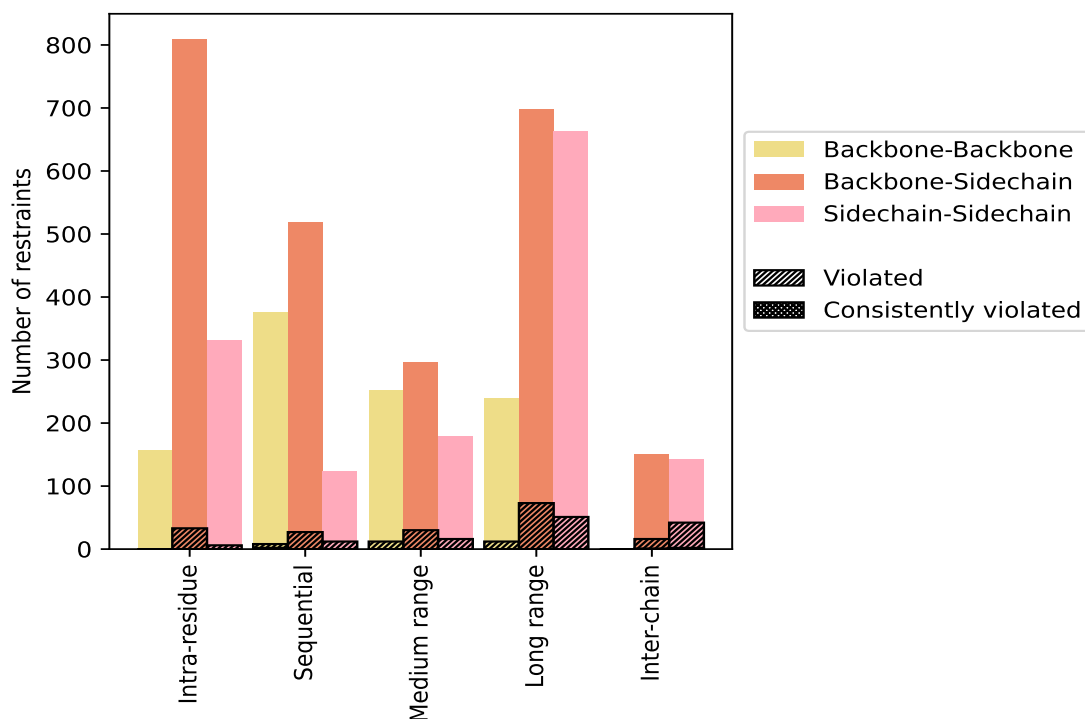
9.1 Summary of distance violations [i](#)

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

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue ($i-j =0$)	1296	26.3	39	3.0	0.8	0	0.0	0.0
Backbone-Backbone	156	3.2	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	809	16.4	33	4.1	0.7	0	0.0	0.0
Sidechain-Sidechain	331	6.7	6	1.8	0.1	0	0.0	0.0
Sequential ($i-j =1$)	1018	20.6	47	4.6	1.0	2	0.2	0.0
Backbone-Backbone	375	7.6	8	2.1	0.2	2	0.5	0.0
Backbone-Sidechain	519	10.5	27	5.2	0.5	0	0.0	0.0
Sidechain-Sidechain	124	2.5	12	9.7	0.2	0	0.0	0.0
Medium range ($i-j >1$ & $i-j <5$)	672	13.6	58	8.6	1.2	0	0.0	0.0
Backbone-Backbone	196	4.0	12	6.1	0.2	0	0.0	0.0
Backbone-Sidechain	297	6.0	30	10.1	0.6	0	0.0	0.0
Sidechain-Sidechain	179	3.6	16	8.9	0.3	0	0.0	0.0
Long range ($i-j \geq 5$)	1524	30.9	133	8.7	2.7	0	0.0	0.0
Backbone-Backbone	163	3.3	9	5.5	0.2	0	0.0	0.0
Backbone-Sidechain	698	14.1	73	10.5	1.5	0	0.0	0.0
Sidechain-Sidechain	663	13.4	51	7.7	1.0	0	0.0	0.0
Inter-chain	293	5.9	58	19.8	1.2	3	1.0	0.1
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	150	3.0	16	10.7	0.3	1	0.7	0.0
Sidechain-Sidechain	143	2.9	42	29.4	0.9	2	1.4	0.0
Hydrogen bond	132	2.7	3	2.3	0.1	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	4935	100.0	338	6.8	6.8	5	0.1	0.1
Backbone-Backbone	1022	20.7	32	3.1	0.6	2	0.2	0.0
Backbone-Sidechain	2473	50.1	179	7.2	3.6	1	0.0	0.0
Sidechain-Sidechain	1440	29.2	127	8.8	2.6	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](#)

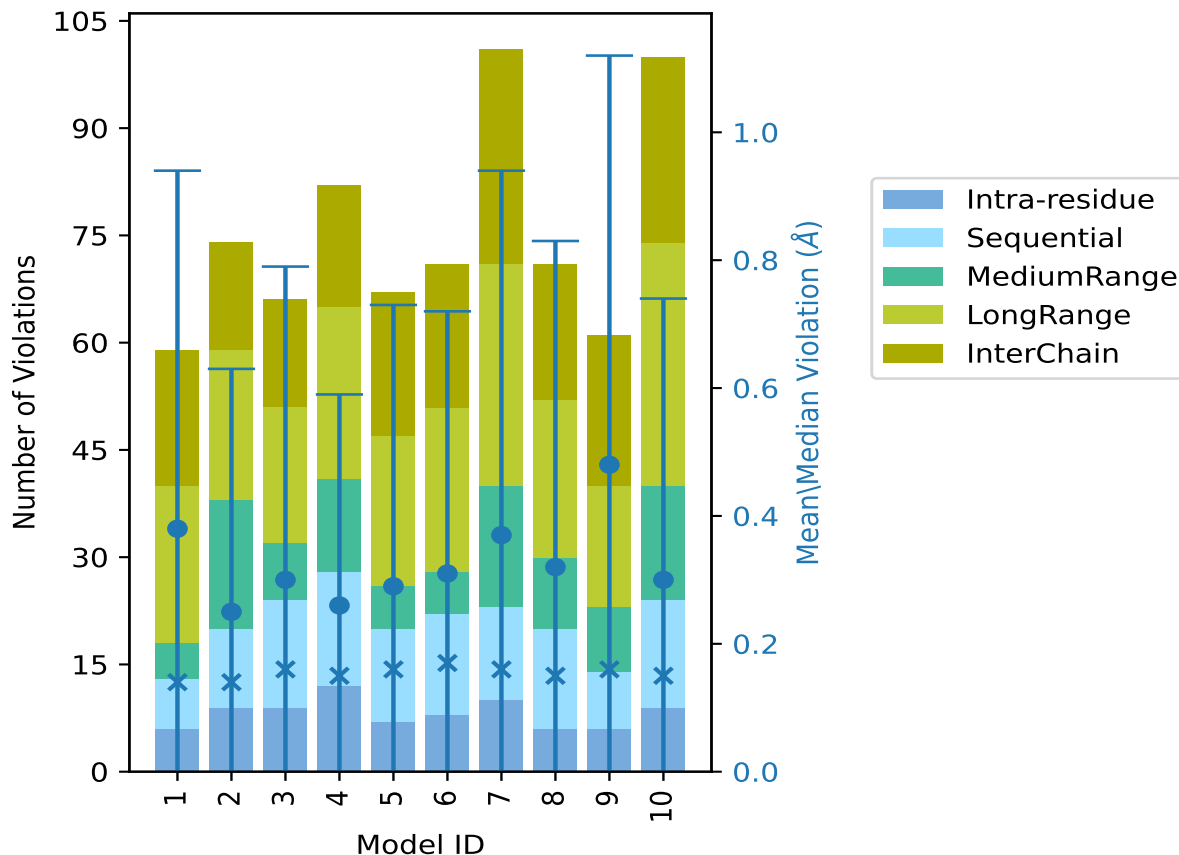
The following table provides the distance violation statistics for each model in the ensemble. Violations less than 0.1 Å are not included in the statistics.

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	6	7	5	22	19	59	0.38	2.49	0.56	0.14
2	9	11	18	21	15	74	0.25	2.37	0.38	0.14
3	9	15	8	19	15	66	0.3	2.55	0.49	0.16
4	12	16	13	24	17	82	0.26	1.82	0.33	0.15
5	7	13	6	21	20	67	0.29	2.47	0.44	0.16
6	8	14	6	23	20	71	0.31	2.31	0.41	0.17
7	10	13	17	31	30	101	0.37	2.88	0.57	0.16
8	6	14	10	22	19	71	0.32	2.7	0.51	0.15
9	6	8	9	17	21	61	0.48	2.73	0.64	0.16
10	9	15	16	34	26	100	0.3	2.57	0.44	0.15

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

⁵Inter-chain restraints, ⁶Standard deviation

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



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

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

Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 4468(IR:1257, SQ:971, MR:614, LR:1391, IC:235) 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	%
23	23	37	84	20	187	1	10.0
5	11	9	32	9	66	2	20.0
5	3	6	6	8	28	3	30.0
2	2	1	1	4	10	4	40.0

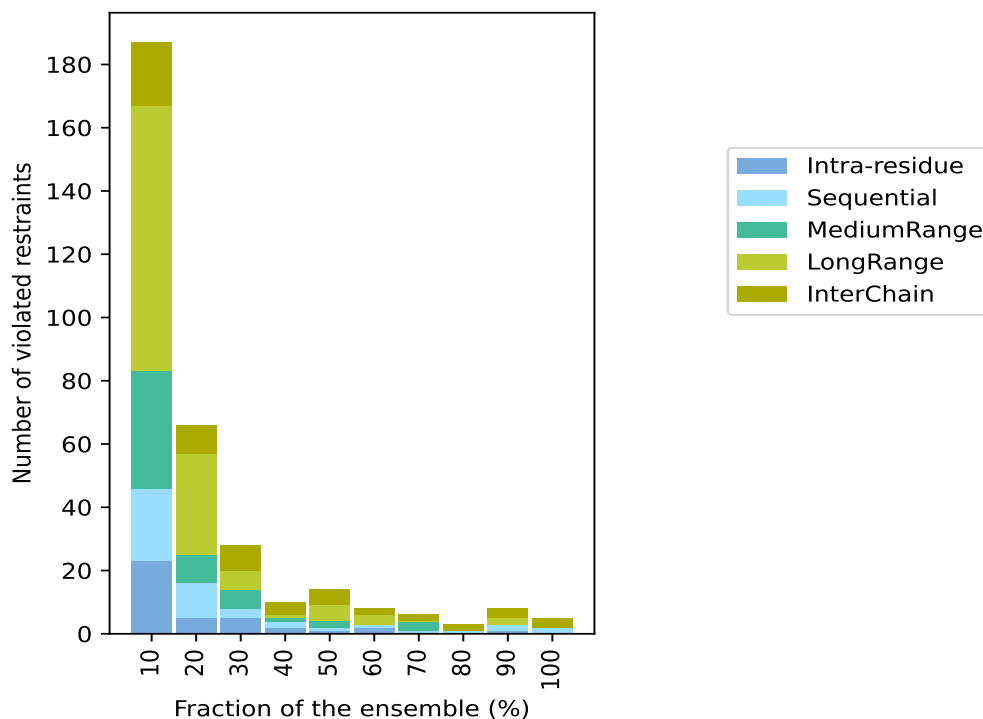
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Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
1	1	2	5	5	14	5	50.0
2	1	0	3	2	8	6	60.0
0	1	3	0	2	6	7	70.0
0	1	0	0	2	3	8	80.0
1	2	0	2	3	8	9	90.0
0	2	0	0	3	5	10	100.0

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

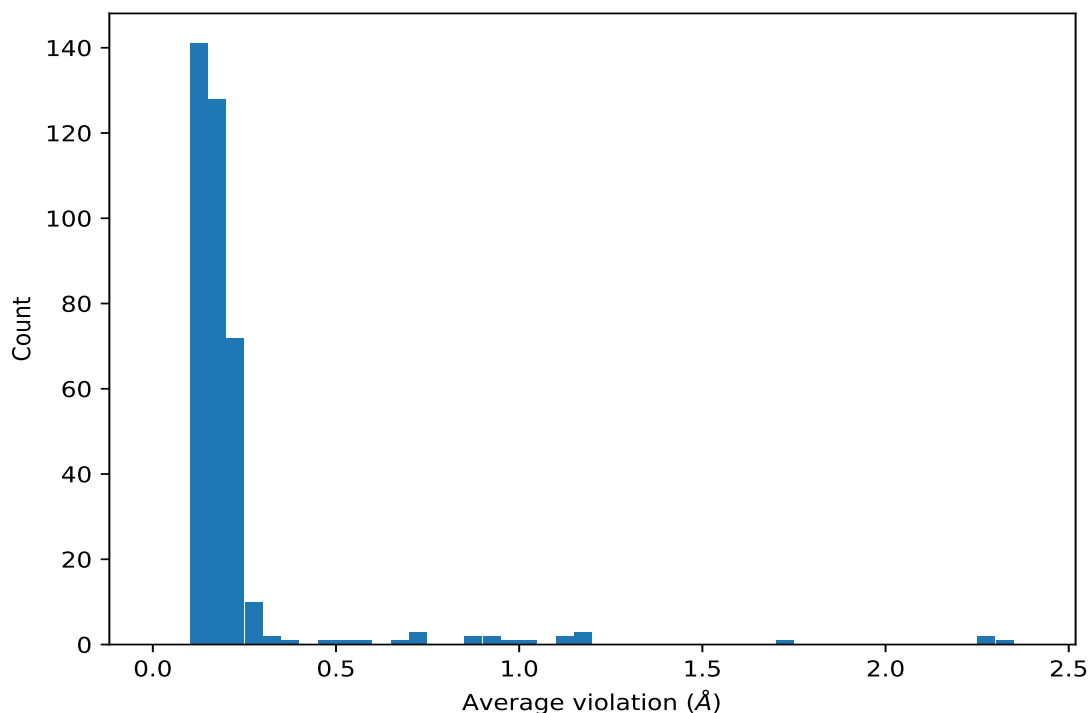
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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

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

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



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

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

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,133)	2:B:94:SER:H	1:A:5:U:H2'	10	2.32	0.43	2.45
(3,130)	2:B:91:GLN:HE21	1:A:5:U:H2'	10	2.25	0.37	2.44
(3,130)	2:B:91:GLN:HE22	1:A:5:U:H2'	10	2.25	0.37	2.44
(3,4)	2:B:86:ASN:HD21	1:A:3:U:H2'	10	1.14	0.51	1.27
(3,4)	2:B:86:ASN:HD22	1:A:3:U:H2'	10	1.14	0.51	1.27
(1,846)	2:B:95:ARG:H	2:B:96:PHE:H	10	0.19	0.02	0.2
(1,1022)	2:B:74:PHE:HA	2:B:75:ARG:HA	10	0.13	0.01	0.12
(1,4652)	3:C:286:PHE:HZ	1:A:2:A:H2'	9	1.72	0.66	1.82
(3,127)	2:B:89:GLY:H	1:A:5:U:H2'	9	1.18	0.55	1.34
(3,70)	2:B:33:ILE:H	1:A:5:U:H2'	9	1.17	0.72	0.87
(1,3574)	3:C:262:PHE:HA	3:C:308:PHE:HE1	9	0.19	0.04	0.18
(1,3574)	3:C:262:PHE:HA	3:C:308:PHE:HE2	9	0.19	0.04	0.18
(1,734)	2:B:76:ASP:H	2:B:76:ASP:HB3	9	0.16	0.03	0.17
(1,1347)	2:B:55:LEU:HD11	2:B:72:ILE:H	9	0.15	0.03	0.14
(1,1347)	2:B:55:LEU:HD12	2:B:72:ILE:H	9	0.15	0.03	0.14
(1,1347)	2:B:55:LEU:HD13	2:B:72:ILE:H	9	0.15	0.03	0.14

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1347)	2:B:55:LEU:HD21	2:B:72:ILE:H	9	0.15	0.03	0.14
(1,1347)	2:B:55:LEU:HD22	2:B:72:ILE:H	9	0.15	0.03	0.14
(1,1347)	2:B:55:LEU:HD23	2:B:72:ILE:H	9	0.15	0.03	0.14
(1,5)	2:B:80:SER:H	2:B:81:ALA:HB1	9	0.14	0.02	0.13
(1,5)	2:B:80:SER:H	2:B:81:ALA:HB2	9	0.14	0.02	0.13
(1,5)	2:B:80:SER:H	2:B:81:ALA:HB3	9	0.14	0.02	0.13
(1,312)	2:B:90:TYR:H	2:B:91:GLN:H	9	0.13	0.02	0.13
(3,136)	2:B:97:LEU:H	1:A:5:U:H2'	8	0.67	0.44	0.62
(1,53)	2:B:72:ILE:HB	2:B:73:GLU:H	8	0.15	0.03	0.16
(1,4574)	3:C:162:PHE:HB2	1:A:5:U:H6	8	0.14	0.03	0.14
(1,4574)	3:C:162:PHE:HB3	1:A:5:U:H6	8	0.14	0.03	0.14
(3,106)	2:B:68:GLY:H	1:A:5:U:H2'	7	0.99	0.65	0.96
(1,4651)	3:C:286:PHE:HE1	1:A:2:A:H2'	7	0.93	0.37	0.91
(1,4651)	3:C:286:PHE:HE2	1:A:2:A:H2'	7	0.93	0.37	0.91
(1,436)	2:B:37:GLN:HE21	2:B:38:THR:H	7	0.16	0.04	0.16
(1,513)	2:B:40:GLU:HG2	2:B:44:ASP:H	7	0.16	0.04	0.14
(1,513)	2:B:40:GLU:HG3	2:B:44:ASP:H	7	0.16	0.04	0.14
(1,2147)	3:C:178:TYR:HD1	3:C:182:TYR:HE1	7	0.15	0.05	0.13
(1,2147)	3:C:178:TYR:HD1	3:C:182:TYR:HE2	7	0.15	0.05	0.13
(1,2147)	3:C:178:TYR:HD2	3:C:182:TYR:HE1	7	0.15	0.05	0.13
(1,2147)	3:C:178:TYR:HD2	3:C:182:TYR:HE2	7	0.15	0.05	0.13
(1,474)	2:B:41:GLN:H	2:B:43:LEU:H	7	0.13	0.02	0.13
(1,1474)	2:B:90:TYR:HB2	2:B:97:LEU:HD11	6	0.21	0.08	0.21
(1,1474)	2:B:90:TYR:HB2	2:B:97:LEU:HD12	6	0.21	0.08	0.21
(1,1474)	2:B:90:TYR:HB2	2:B:97:LEU:HD13	6	0.21	0.08	0.21
(1,1474)	2:B:90:TYR:HB2	2:B:97:LEU:HD21	6	0.21	0.08	0.21
(1,1474)	2:B:90:TYR:HB2	2:B:97:LEU:HD22	6	0.21	0.08	0.21
(1,1474)	2:B:90:TYR:HB2	2:B:97:LEU:HD23	6	0.21	0.08	0.21
(1,4543)	1:A:1:U:H2'	1:A:1:U:H6	6	0.21	0.07	0.25
(1,1569)	1:A:9:A:H2	2:B:71:PHE:HB2	6	0.2	0.08	0.16
(1,4432)	3:C:309:LYS:HA	3:C:309:LYS:HE2	6	0.17	0.07	0.15
(1,4432)	3:C:309:LYS:HA	3:C:309:LYS:HE3	6	0.17	0.07	0.15
(1,805)	2:B:88:ASN:H	2:B:97:LEU:HD21	6	0.17	0.06	0.15
(1,805)	2:B:88:ASN:H	2:B:97:LEU:HD22	6	0.17	0.06	0.15
(1,805)	2:B:88:ASN:H	2:B:97:LEU:HD23	6	0.17	0.06	0.15
(1,3787)	3:C:266:TRP:HZ3	3:C:291:TYR:HE1	6	0.17	0.06	0.14
(1,3787)	3:C:266:TRP:HZ3	3:C:291:TYR:HE2	6	0.17	0.06	0.14
(1,4606)	3:C:168:TRP:HZ2	1:A:4:A:H2	6	0.14	0.02	0.14
(1,1165)	2:B:34:PRO:HB2	2:B:35:TYR:HD1	6	0.14	0.03	0.14
(1,1165)	2:B:34:PRO:HB2	2:B:35:TYR:HD2	6	0.14	0.03	0.14
(1,1165)	2:B:34:PRO:HB3	2:B:35:TYR:HD1	6	0.14	0.03	0.14
(1,1165)	2:B:34:PRO:HB3	2:B:35:TYR:HD2	6	0.14	0.03	0.14

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,105)	2:B:67:LYS:H	1:A:5:U:H2'	5	1.0	0.48	1.0
(1,4645)	3:C:246:PHE:HE1	1:A:1:U:H2'	5	0.88	0.58	1.03
(1,4645)	3:C:246:PHE:HE2	1:A:1:U:H2'	5	0.88	0.58	1.03
(3,93)	2:B:54:ASN:HD21	1:A:5:U:H2'	5	0.7	0.28	0.79
(3,93)	2:B:54:ASN:HD22	1:A:5:U:H2'	5	0.7	0.28	0.79
(1,1522)	1:A:10:U:H2'	1:A:11:A:H8	5	0.48	0.16	0.53
(1,4561)	1:A:5:U:H2'	1:A:5:U:H6	5	0.38	0.06	0.37
(1,405)	2:B:28:VAL:H	2:B:72:ILE:HG21	5	0.17	0.06	0.14
(1,405)	2:B:28:VAL:H	2:B:72:ILE:HG22	5	0.17	0.06	0.14
(1,405)	2:B:28:VAL:H	2:B:72:ILE:HG23	5	0.17	0.06	0.14
(1,823)	2:B:91:GLN:H	2:B:96:PHE:HE1	5	0.16	0.04	0.14
(1,823)	2:B:91:GLN:H	2:B:96:PHE:HE2	5	0.16	0.04	0.14
(1,538)	2:B:77:LEU:HA	2:B:79:SER:H	5	0.16	0.04	0.15
(1,192)	2:B:77:LEU:HD11	2:B:81:ALA:HB1	5	0.15	0.04	0.16
(1,192)	2:B:77:LEU:HD11	2:B:81:ALA:HB2	5	0.15	0.04	0.16
(1,192)	2:B:77:LEU:HD11	2:B:81:ALA:HB3	5	0.15	0.04	0.16
(1,192)	2:B:77:LEU:HD12	2:B:81:ALA:HB1	5	0.15	0.04	0.16
(1,192)	2:B:77:LEU:HD12	2:B:81:ALA:HB2	5	0.15	0.04	0.16
(1,192)	2:B:77:LEU:HD12	2:B:81:ALA:HB3	5	0.15	0.04	0.16
(1,192)	2:B:77:LEU:HD13	2:B:81:ALA:HB1	5	0.15	0.04	0.16
(1,192)	2:B:77:LEU:HD13	2:B:81:ALA:HB2	5	0.15	0.04	0.16
(1,192)	2:B:77:LEU:HD13	2:B:81:ALA:HB3	5	0.15	0.04	0.16
(1,258)	2:B:37:GLN:HB3	2:B:42:ILE:HD11	5	0.15	0.04	0.12
(1,258)	2:B:37:GLN:HB3	2:B:42:ILE:HD12	5	0.15	0.04	0.12
(1,258)	2:B:37:GLN:HB3	2:B:42:ILE:HD13	5	0.15	0.04	0.12
(1,4627)	3:C:204:PHE:HZ	1:A:6:A:H2	5	0.14	0.03	0.12
(1,3829)	3:C:269:ILE:HA	3:C:291:TYR:HD1	5	0.14	0.02	0.13
(1,3829)	3:C:269:ILE:HA	3:C:291:TYR:HD2	5	0.14	0.02	0.13
(1,4607)	3:C:168:TRP:HZ3	1:A:4:A:H1'	5	0.14	0.03	0.13
(1,2274)	3:C:182:TYR:HD1	3:C:212:SER:HA	5	0.13	0.02	0.12
(1,2274)	3:C:182:TYR:HD2	3:C:212:SER:HA	5	0.13	0.02	0.12
(3,107)	2:B:69:TYR:H	1:A:5:U:H2'	4	1.18	0.48	1.25
(3,109)	2:B:71:PHE:H	1:A:5:U:H2'	4	0.57	0.25	0.58
(1,1246)	2:B:45:LEU:HD11	2:B:90:TYR:HD1	4	0.24	0.09	0.24
(1,1246)	2:B:45:LEU:HD11	2:B:90:TYR:HD2	4	0.24	0.09	0.24
(1,1246)	2:B:45:LEU:HD12	2:B:90:TYR:HD1	4	0.24	0.09	0.24
(1,1246)	2:B:45:LEU:HD12	2:B:90:TYR:HD2	4	0.24	0.09	0.24
(1,1246)	2:B:45:LEU:HD13	2:B:90:TYR:HD1	4	0.24	0.09	0.24
(1,1246)	2:B:45:LEU:HD13	2:B:90:TYR:HD2	4	0.24	0.09	0.24
(1,1246)	2:B:45:LEU:HD21	2:B:90:TYR:HD1	4	0.24	0.09	0.24
(1,1246)	2:B:45:LEU:HD21	2:B:90:TYR:HD2	4	0.24	0.09	0.24
(1,1246)	2:B:45:LEU:HD22	2:B:90:TYR:HD1	4	0.24	0.09	0.24

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1246)	2:B:45:LEU:HD22	2:B:90:TYR:HD2	4	0.24	0.09	0.24
(1,1246)	2:B:45:LEU:HD23	2:B:90:TYR:HD1	4	0.24	0.09	0.24
(1,1246)	2:B:45:LEU:HD23	2:B:90:TYR:HD2	4	0.24	0.09	0.24
(1,3704)	3:C:265:GLN:HA	3:C:266:TRP:HE3	4	0.21	0.04	0.2
(1,144)	2:B:49:VAL:H	2:B:49:VAL:HG21	4	0.16	0.01	0.17
(1,144)	2:B:49:VAL:H	2:B:49:VAL:HG22	4	0.16	0.01	0.17
(1,144)	2:B:49:VAL:H	2:B:49:VAL:HG23	4	0.16	0.01	0.17
(1,1593)	2:B:69:TYR:HB3	1:A:10:U:H6	4	0.16	0.04	0.16
(1,4250)	3:C:302:GLN:HA	3:C:302:GLN:HG2	4	0.16	0.02	0.16
(1,4250)	3:C:302:GLN:HA	3:C:302:GLN:HG3	4	0.16	0.02	0.16
(1,854)	2:B:96:PHE:HD1	2:B:97:LEU:H	4	0.15	0.02	0.15
(1,854)	2:B:96:PHE:HD2	2:B:97:LEU:H	4	0.15	0.02	0.15
(1,2182)	3:C:179:PHE:HA	3:C:182:TYR:HE1	4	0.13	0.02	0.12
(1,2182)	3:C:179:PHE:HA	3:C:182:TYR:HE2	4	0.13	0.02	0.12
(1,4594)	3:C:168:TRP:HA	1:A:4:A:H8	4	0.12	0.01	0.12
(1,4617)	3:C:202:PHE:HE1	1:A:7:U:H2'	3	0.28	0.07	0.29
(1,4617)	3:C:202:PHE:HE2	1:A:7:U:H2'	3	0.28	0.07	0.29
(1,1517)	1:A:9:A:H2'	1:A:10:U:H5	3	0.27	0.13	0.23
(1,67)	2:B:35:TYR:HE1	2:B:68:GLY:HA3	3	0.26	0.16	0.17
(1,67)	2:B:35:TYR:HE2	2:B:68:GLY:HA3	3	0.26	0.16	0.17
(1,3798)	3:C:267:GLY:H	3:C:291:TYR:HD1	3	0.26	0.11	0.18
(1,3798)	3:C:267:GLY:H	3:C:291:TYR:HD2	3	0.26	0.11	0.18
(1,1281)	2:B:49:VAL:H	2:B:49:VAL:HG11	3	0.23	0.02	0.24
(1,1281)	2:B:49:VAL:H	2:B:49:VAL:HG12	3	0.23	0.02	0.24
(1,1281)	2:B:49:VAL:H	2:B:49:VAL:HG13	3	0.23	0.02	0.24
(1,1281)	2:B:49:VAL:H	2:B:49:VAL:HG21	3	0.23	0.02	0.24
(1,1281)	2:B:49:VAL:H	2:B:49:VAL:HG22	3	0.23	0.02	0.24
(1,1281)	2:B:49:VAL:H	2:B:49:VAL:HG23	3	0.23	0.02	0.24
(1,4649)	3:C:275:MET:HG2	1:A:3:U:H1'	3	0.2	0.04	0.2
(1,4649)	3:C:275:MET:HG3	1:A:3:U:H1'	3	0.2	0.04	0.2
(1,3589)	3:C:262:PHE:HD1	3:C:266:TRP:HE3	3	0.18	0.06	0.17
(1,3589)	3:C:262:PHE:HD2	3:C:266:TRP:HE3	3	0.18	0.06	0.17
(1,3619)	3:C:262:PHE:HZ	3:C:266:TRP:HH2	3	0.18	0.04	0.18
(1,986)	2:B:98:LYS:HA	2:B:98:LYS:HD2	3	0.17	0.02	0.18
(1,986)	2:B:98:LYS:HA	2:B:98:LYS:HD3	3	0.17	0.02	0.18
(1,3369)	3:C:250:ILE:HG21	3:C:308:PHE:HE1	3	0.17	0.03	0.17
(1,3369)	3:C:250:ILE:HG21	3:C:308:PHE:HE2	3	0.17	0.03	0.17
(1,3369)	3:C:250:ILE:HG22	3:C:308:PHE:HE1	3	0.17	0.03	0.17
(1,3369)	3:C:250:ILE:HG22	3:C:308:PHE:HE2	3	0.17	0.03	0.17
(1,3369)	3:C:250:ILE:HG23	3:C:308:PHE:HE1	3	0.17	0.03	0.17
(1,3369)	3:C:250:ILE:HG23	3:C:308:PHE:HE2	3	0.17	0.03	0.17
(1,448)	2:B:39:GLU:H	2:B:39:GLU:HG3	3	0.16	0.05	0.14

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,467)	2:B:75:ARG:H	2:B:75:ARG:HD2	3	0.15	0.03	0.16
(1,467)	2:B:75:ARG:H	2:B:75:ARG:HD3	3	0.15	0.03	0.16
(1,2524)	3:C:196:THR:HB	3:C:198:ARG:HB2	3	0.15	0.04	0.15
(1,2524)	3:C:196:THR:HB	3:C:198:ARG:HB3	3	0.15	0.04	0.15
(1,3986)	3:C:277:ASP:H	3:C:280:THR:H	3	0.15	0.02	0.16
(1,2081)	3:C:176:ARG:HA	3:C:176:ARG:HD2	3	0.15	0.02	0.16
(1,2081)	3:C:176:ARG:HA	3:C:176:ARG:HD3	3	0.15	0.02	0.16
(1,964)	2:B:81:ALA:HA	2:B:84:VAL:HG21	3	0.15	0.02	0.15
(1,964)	2:B:81:ALA:HA	2:B:84:VAL:HG22	3	0.15	0.02	0.15
(1,964)	2:B:81:ALA:HA	2:B:84:VAL:HG23	3	0.15	0.02	0.15
(1,942)	2:B:52:VAL:HB	2:B:74:PHE:HD1	3	0.14	0.01	0.14
(1,942)	2:B:52:VAL:HB	2:B:74:PHE:HD2	3	0.14	0.01	0.14
(1,831)	2:B:91:GLN:HG2	2:B:92:LEU:H	3	0.14	0.01	0.14
(1,831)	2:B:91:GLN:HG3	2:B:92:LEU:H	3	0.14	0.01	0.14
(1,379)	2:B:77:LEU:HB2	2:B:81:ALA:H	3	0.14	0.02	0.15
(1,1577)	1:A:9:A:H8	2:B:71:PHE:HE2	3	0.13	0.02	0.14
(1,4628)	3:C:204:PHE:HZ	1:A:7:U:H6	3	0.13	0.01	0.13
(1,1581)	2:B:58:MET:HE1	1:A:10:U:H5	3	0.13	0.01	0.13
(1,1581)	2:B:58:MET:HE2	1:A:10:U:H5	3	0.13	0.01	0.13
(1,1581)	2:B:58:MET:HE3	1:A:10:U:H5	3	0.13	0.01	0.13
(1,1603)	2:B:72:ILE:HD11	1:A:9:A:H2	3	0.13	0.02	0.12
(1,1603)	2:B:72:ILE:HD12	1:A:9:A:H2	3	0.13	0.02	0.12
(1,1603)	2:B:72:ILE:HD13	1:A:9:A:H2	3	0.13	0.02	0.12
(1,1558)	1:A:9:A:H2	2:B:28:VAL:H	3	0.12	0.01	0.13
(1,1740)	3:C:162:PHE:HE1	3:C:239:GLN:HG2	3	0.12	0.01	0.13
(1,1740)	3:C:162:PHE:HE1	3:C:239:GLN:HG3	3	0.12	0.01	0.13
(1,1740)	3:C:162:PHE:HE2	3:C:239:GLN:HG2	3	0.12	0.01	0.13
(1,1740)	3:C:162:PHE:HE2	3:C:239:GLN:HG3	3	0.12	0.01	0.13
(1,2128)	3:C:177:GLU:H	3:C:178:TYR:HD1	3	0.12	0.01	0.12
(1,2128)	3:C:177:GLU:H	3:C:178:TYR:HD2	3	0.12	0.01	0.12
(1,2433)	3:C:189:LYS:HG2	3:C:204:PHE:HE1	3	0.12	0.0	0.12
(1,2433)	3:C:189:LYS:HG2	3:C:204:PHE:HE2	3	0.12	0.0	0.12
(1,2433)	3:C:189:LYS:HG3	3:C:204:PHE:HE1	3	0.12	0.0	0.12
(1,2433)	3:C:189:LYS:HG3	3:C:204:PHE:HE2	3	0.12	0.0	0.12
(1,4589)	3:C:165:GLY:HA2	1:A:5:U:H6	3	0.12	0.01	0.11
(1,4589)	3:C:165:GLY:HA3	1:A:5:U:H6	3	0.12	0.01	0.11
(1,4598)	3:C:168:TRP:HE1	1:A:4:A:H2'	2	0.7	0.38	0.7
(1,1528)	1:A:11:A:H2'	1:A:12:A:H8	2	0.5	0.12	0.5
(1,4586)	3:C:164:GLY:HA2	1:A:5:U:H1'	2	0.33	0.01	0.33
(1,4586)	3:C:164:GLY:HA3	1:A:5:U:H1'	2	0.33	0.01	0.33
(1,1552)	1:A:8:A:H1'	2:B:69:TYR:HE1	2	0.28	0.06	0.28
(1,1552)	1:A:8:A:H1'	2:B:69:TYR:HE2	2	0.28	0.06	0.28

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1527)	1:A:11:A:H2	1:A:12:A:H8	2	0.28	0.14	0.28
(1,1861)	3:C:166:LEU:HD11	3:C:228:ILE:HG21	2	0.24	0.02	0.24
(1,1861)	3:C:166:LEU:HD11	3:C:228:ILE:HG22	2	0.24	0.02	0.24
(1,1861)	3:C:166:LEU:HD11	3:C:228:ILE:HG23	2	0.24	0.02	0.24
(1,1861)	3:C:166:LEU:HD12	3:C:228:ILE:HG21	2	0.24	0.02	0.24
(1,1861)	3:C:166:LEU:HD12	3:C:228:ILE:HG22	2	0.24	0.02	0.24
(1,1861)	3:C:166:LEU:HD12	3:C:228:ILE:HG23	2	0.24	0.02	0.24
(1,1861)	3:C:166:LEU:HD13	3:C:228:ILE:HG21	2	0.24	0.02	0.24
(1,1861)	3:C:166:LEU:HD13	3:C:228:ILE:HG22	2	0.24	0.02	0.24
(1,1861)	3:C:166:LEU:HD13	3:C:228:ILE:HG23	2	0.24	0.02	0.24
(1,1861)	3:C:166:LEU:HD21	3:C:228:ILE:HG21	2	0.24	0.02	0.24
(1,1861)	3:C:166:LEU:HD21	3:C:228:ILE:HG22	2	0.24	0.02	0.24
(1,1861)	3:C:166:LEU:HD21	3:C:228:ILE:HG23	2	0.24	0.02	0.24
(1,1861)	3:C:166:LEU:HD22	3:C:228:ILE:HG21	2	0.24	0.02	0.24
(1,1861)	3:C:166:LEU:HD22	3:C:228:ILE:HG22	2	0.24	0.02	0.24
(1,1861)	3:C:166:LEU:HD22	3:C:228:ILE:HG23	2	0.24	0.02	0.24
(1,1861)	3:C:166:LEU:HD23	3:C:228:ILE:HG21	2	0.24	0.02	0.24
(1,1861)	3:C:166:LEU:HD23	3:C:228:ILE:HG22	2	0.24	0.02	0.24
(1,1861)	3:C:166:LEU:HD23	3:C:228:ILE:HG23	2	0.24	0.02	0.24
(1,1112)	2:B:27:VAL:HG11	2:B:103:SER:HB2	2	0.22	0.08	0.22
(1,1112)	2:B:27:VAL:HG11	2:B:103:SER:HB3	2	0.22	0.08	0.22
(1,1112)	2:B:27:VAL:HG12	2:B:103:SER:HB2	2	0.22	0.08	0.22
(1,1112)	2:B:27:VAL:HG12	2:B:103:SER:HB3	2	0.22	0.08	0.22
(1,1112)	2:B:27:VAL:HG13	2:B:103:SER:HB2	2	0.22	0.08	0.22
(1,1112)	2:B:27:VAL:HG13	2:B:103:SER:HB3	2	0.22	0.08	0.22
(1,1112)	2:B:27:VAL:HG21	2:B:103:SER:HB2	2	0.22	0.08	0.22
(1,1112)	2:B:27:VAL:HG21	2:B:103:SER:HB3	2	0.22	0.08	0.22
(1,1112)	2:B:27:VAL:HG22	2:B:103:SER:HB2	2	0.22	0.08	0.22
(1,1112)	2:B:27:VAL:HG22	2:B:103:SER:HB3	2	0.22	0.08	0.22
(1,1112)	2:B:27:VAL:HG23	2:B:103:SER:HB2	2	0.22	0.08	0.22
(1,1112)	2:B:27:VAL:HG23	2:B:103:SER:HB3	2	0.22	0.08	0.22
(1,1257)	2:B:46:CYS:HA	2:B:92:LEU:HD11	2	0.22	0.03	0.22
(1,1257)	2:B:46:CYS:HA	2:B:92:LEU:HD12	2	0.22	0.03	0.22
(1,1257)	2:B:46:CYS:HA	2:B:92:LEU:HD13	2	0.22	0.03	0.22
(1,1257)	2:B:46:CYS:HA	2:B:92:LEU:HD21	2	0.22	0.03	0.22
(1,1257)	2:B:46:CYS:HA	2:B:92:LEU:HD22	2	0.22	0.03	0.22
(1,1257)	2:B:46:CYS:HA	2:B:92:LEU:HD23	2	0.22	0.03	0.22
(1,3274)	3:C:246:PHE:HD1	3:C:319:GLU:H	2	0.22	0.08	0.22
(1,3274)	3:C:246:PHE:HD2	3:C:319:GLU:H	2	0.22	0.08	0.22
(1,584)	2:B:72:ILE:HG21	2:B:73:GLU:H	2	0.2	0.08	0.2
(1,584)	2:B:72:ILE:HG22	2:B:73:GLU:H	2	0.2	0.08	0.2
(1,584)	2:B:72:ILE:HG23	2:B:73:GLU:H	2	0.2	0.08	0.2

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1157)	2:B:33:ILE:HB	2:B:93:GLY:HA2	2	0.2	0.05	0.2
(1,1157)	2:B:33:ILE:HB	2:B:93:GLY:HA3	2	0.2	0.05	0.2
(1,1209)	2:B:42:ILE:H	2:B:55:LEU:HD11	2	0.19	0.01	0.19
(1,1209)	2:B:42:ILE:H	2:B:55:LEU:HD12	2	0.19	0.01	0.19
(1,1209)	2:B:42:ILE:H	2:B:55:LEU:HD13	2	0.19	0.01	0.19
(1,1209)	2:B:42:ILE:H	2:B:55:LEU:HD21	2	0.19	0.01	0.19
(1,1209)	2:B:42:ILE:H	2:B:55:LEU:HD22	2	0.19	0.01	0.19
(1,1209)	2:B:42:ILE:H	2:B:55:LEU:HD23	2	0.19	0.01	0.19
(1,1556)	1:A:9:A:H1'	2:B:71:PHE:HE1	2	0.19	0.03	0.19
(1,1556)	1:A:9:A:H1'	2:B:71:PHE:HE2	2	0.19	0.03	0.19
(1,2679)	3:C:208:GLU:H	3:C:209:LYS:H	2	0.19	0.03	0.19
(1,447)	2:B:39:GLU:H	2:B:39:GLU:HG2	2	0.18	0.01	0.18
(1,1142)	2:B:30:LEU:HB2	2:B:69:TYR:HD1	2	0.18	0.05	0.18
(1,1142)	2:B:30:LEU:HB2	2:B:69:TYR:HD2	2	0.18	0.05	0.18
(1,1142)	2:B:30:LEU:HB3	2:B:69:TYR:HD1	2	0.18	0.05	0.18
(1,1142)	2:B:30:LEU:HB3	2:B:69:TYR:HD2	2	0.18	0.05	0.18
(1,314)	2:B:90:TYR:H	2:B:90:TYR:HB3	2	0.18	0.01	0.18
(1,52)	2:B:72:ILE:HB	2:B:74:PHE:HD1	2	0.18	0.06	0.18
(1,52)	2:B:72:ILE:HB	2:B:74:PHE:HD2	2	0.18	0.06	0.18
(1,956)	2:B:35:TYR:HD1	2:B:59:PHE:HE1	2	0.17	0.05	0.17
(1,956)	2:B:35:TYR:HD1	2:B:59:PHE:HE2	2	0.17	0.05	0.17
(1,956)	2:B:35:TYR:HD2	2:B:59:PHE:HE1	2	0.17	0.05	0.17
(1,956)	2:B:35:TYR:HD2	2:B:59:PHE:HE2	2	0.17	0.05	0.17
(1,3468)	3:C:258:GLU:HA	3:C:261:GLU:HG2	2	0.17	0.02	0.17
(1,3468)	3:C:258:GLU:HA	3:C:261:GLU:HG3	2	0.17	0.02	0.17
(1,4023)	3:C:282:GLN:HA	3:C:286:PHE:HZ	2	0.17	0.05	0.17
(1,1342)	2:B:55:LEU:HD11	2:B:57:MET:H	2	0.16	0.01	0.16
(1,1342)	2:B:55:LEU:HD12	2:B:57:MET:H	2	0.16	0.01	0.16
(1,1342)	2:B:55:LEU:HD13	2:B:57:MET:H	2	0.16	0.01	0.16
(1,1342)	2:B:55:LEU:HD21	2:B:57:MET:H	2	0.16	0.01	0.16
(1,1342)	2:B:55:LEU:HD22	2:B:57:MET:H	2	0.16	0.01	0.16
(1,1342)	2:B:55:LEU:HD23	2:B:57:MET:H	2	0.16	0.01	0.16
(1,2430)	3:C:189:LYS:HG2	3:C:204:PHE:HA	2	0.16	0.04	0.16
(1,2430)	3:C:189:LYS:HG3	3:C:204:PHE:HA	2	0.16	0.04	0.16
(1,4021)	3:C:282:GLN:HA	3:C:286:PHE:HD1	2	0.16	0.01	0.16
(1,4021)	3:C:282:GLN:HA	3:C:286:PHE:HD2	2	0.16	0.01	0.16
(1,3267)	3:C:246:PHE:HD1	3:C:288:PHE:HB2	2	0.16	0.01	0.16
(1,3267)	3:C:246:PHE:HD1	3:C:288:PHE:HB3	2	0.16	0.01	0.16
(1,3267)	3:C:246:PHE:HD2	3:C:288:PHE:HB2	2	0.16	0.01	0.16
(1,3267)	3:C:246:PHE:HD2	3:C:288:PHE:HB3	2	0.16	0.01	0.16
(1,707)	2:B:59:PHE:HA	2:B:67:LYS:H	2	0.16	0.02	0.16
(1,1992)	3:C:172:GLU:HA	3:C:190:ILE:HG12	2	0.16	0.02	0.16

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1992)	3:C:172:GLU:HA	3:C:190:ILE:HG13	2	0.16	0.02	0.16
(1,554)	2:B:49:VAL:H	2:B:74:PHE:HZ	2	0.16	0.05	0.16
(1,1624)	3:C:159:CYS:H	3:C:160:LYS:H	2	0.15	0.02	0.15
(1,912)	2:B:30:LEU:HA	2:B:69:TYR:HE1	2	0.15	0.0	0.15
(1,912)	2:B:30:LEU:HA	2:B:69:TYR:HE2	2	0.15	0.0	0.15
(1,2546)	3:C:198:ARG:HG2	3:C:199:SER:H	2	0.15	0.03	0.15
(1,2546)	3:C:198:ARG:HG3	3:C:199:SER:H	2	0.15	0.03	0.15
(1,2955)	3:C:227:VAL:HG11	3:C:278:LYS:HA	2	0.15	0.02	0.15
(1,2955)	3:C:227:VAL:HG12	3:C:278:LYS:HA	2	0.15	0.02	0.15
(1,2955)	3:C:227:VAL:HG13	3:C:278:LYS:HA	2	0.15	0.02	0.15
(1,2955)	3:C:227:VAL:HG21	3:C:278:LYS:HA	2	0.15	0.02	0.15
(1,2955)	3:C:227:VAL:HG22	3:C:278:LYS:HA	2	0.15	0.02	0.15
(1,2955)	3:C:227:VAL:HG23	3:C:278:LYS:HA	2	0.15	0.02	0.15
(1,4619)	3:C:204:PHE:HD1	1:A:6:A:H2	2	0.15	0.03	0.15
(1,4619)	3:C:204:PHE:HD2	1:A:6:A:H2	2	0.15	0.03	0.15
(1,4609)	3:C:189:LYS:HB2	1:A:7:U:H5	2	0.14	0.03	0.14
(1,4609)	3:C:189:LYS:HB3	1:A:7:U:H5	2	0.14	0.03	0.14
(1,1102)	2:B:27:VAL:HG11	2:B:73:GLU:HB2	2	0.14	0.02	0.14
(1,1102)	2:B:27:VAL:HG12	2:B:73:GLU:HB2	2	0.14	0.02	0.14
(1,1102)	2:B:27:VAL:HG13	2:B:73:GLU:HB2	2	0.14	0.02	0.14
(1,1102)	2:B:27:VAL:HG21	2:B:73:GLU:HB2	2	0.14	0.02	0.14
(1,1102)	2:B:27:VAL:HG22	2:B:73:GLU:HB2	2	0.14	0.02	0.14
(1,1102)	2:B:27:VAL:HG23	2:B:73:GLU:HB2	2	0.14	0.02	0.14
(1,1421)	2:B:79:SER:H	2:B:82:SER:HB2	2	0.14	0.02	0.14
(1,1421)	2:B:79:SER:H	2:B:82:SER:HB3	2	0.14	0.02	0.14
(1,2799)	3:C:217:VAL:HA	3:C:221:HIS:HE1	2	0.14	0.02	0.14
(1,3853)	3:C:269:ILE:HG21	3:C:291:TYR:HD1	2	0.14	0.02	0.14
(1,3853)	3:C:269:ILE:HG21	3:C:291:TYR:HD2	2	0.14	0.02	0.14
(1,3853)	3:C:269:ILE:HG22	3:C:291:TYR:HD1	2	0.14	0.02	0.14
(1,3853)	3:C:269:ILE:HG22	3:C:291:TYR:HD2	2	0.14	0.02	0.14
(1,3853)	3:C:269:ILE:HG23	3:C:291:TYR:HD1	2	0.14	0.02	0.14
(1,3853)	3:C:269:ILE:HG23	3:C:291:TYR:HD2	2	0.14	0.02	0.14
(1,4412)	3:C:308:PHE:HE1	3:C:309:LYS:HD2	2	0.14	0.03	0.14
(1,4412)	3:C:308:PHE:HE1	3:C:309:LYS:HD3	2	0.14	0.03	0.14
(1,4412)	3:C:308:PHE:HE2	3:C:309:LYS:HD2	2	0.14	0.03	0.14
(1,4412)	3:C:308:PHE:HE2	3:C:309:LYS:HD3	2	0.14	0.03	0.14
(1,4646)	3:C:246:PHE:HE1	1:A:2:A:H8	2	0.14	0.01	0.14
(1,4646)	3:C:246:PHE:HE2	1:A:2:A:H8	2	0.14	0.01	0.14
(1,800)	2:B:88:ASN:H	2:B:88:ASN:HD21	2	0.14	0.02	0.14
(1,1592)	2:B:69:TYR:HB2	1:A:10:U:H5	2	0.14	0.02	0.14
(1,2414)	3:C:188:LEU:HD11	3:C:205:LEU:HB2	2	0.14	0.02	0.14
(1,2414)	3:C:188:LEU:HD11	3:C:205:LEU:HB3	2	0.14	0.02	0.14

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2414)	3:C:188:LEU:HD12	3:C:205:LEU:HB2	2	0.14	0.02	0.14
(1,2414)	3:C:188:LEU:HD12	3:C:205:LEU:HB3	2	0.14	0.02	0.14
(1,2414)	3:C:188:LEU:HD13	3:C:205:LEU:HB2	2	0.14	0.02	0.14
(1,2414)	3:C:188:LEU:HD13	3:C:205:LEU:HB3	2	0.14	0.02	0.14
(1,2414)	3:C:188:LEU:HD21	3:C:205:LEU:HB2	2	0.14	0.02	0.14
(1,2414)	3:C:188:LEU:HD21	3:C:205:LEU:HB3	2	0.14	0.02	0.14
(1,2414)	3:C:188:LEU:HD22	3:C:205:LEU:HB2	2	0.14	0.02	0.14
(1,2414)	3:C:188:LEU:HD22	3:C:205:LEU:HB3	2	0.14	0.02	0.14
(1,2414)	3:C:188:LEU:HD23	3:C:205:LEU:HB2	2	0.14	0.02	0.14
(1,2414)	3:C:188:LEU:HD23	3:C:205:LEU:HB3	2	0.14	0.02	0.14
(1,2960)	3:C:227:VAL:H	3:C:227:VAL:HB	2	0.14	0.02	0.14
(1,3232)	3:C:245:ILE:HG12	3:C:315:ILE:H	2	0.14	0.02	0.14
(1,3232)	3:C:245:ILE:HG13	3:C:315:ILE:H	2	0.14	0.02	0.14
(1,4220)	3:C:300:VAL:HA	3:C:304:LYS:H	2	0.14	0.02	0.14
(1,174)	2:B:54:ASN:HB3	2:B:73:GLU:HB3	2	0.13	0.02	0.13
(1,664)	2:B:60:ASP:H	2:B:67:LYS:HA	2	0.13	0.02	0.13
(1,1185)	2:B:37:GLN:HE21	2:B:93:GLY:HA2	2	0.13	0.01	0.13
(1,1185)	2:B:37:GLN:HE21	2:B:93:GLY:HA3	2	0.13	0.01	0.13
(1,1185)	2:B:37:GLN:HE22	2:B:93:GLY:HA2	2	0.13	0.01	0.13
(1,1185)	2:B:37:GLN:HE22	2:B:93:GLY:HA3	2	0.13	0.01	0.13
(1,1280)	2:B:48:ASN:HD21	2:B:49:VAL:HG11	2	0.13	0.02	0.13
(1,1280)	2:B:48:ASN:HD21	2:B:49:VAL:HG12	2	0.13	0.02	0.13
(1,1280)	2:B:48:ASN:HD21	2:B:49:VAL:HG13	2	0.13	0.02	0.13
(1,1280)	2:B:48:ASN:HD21	2:B:49:VAL:HG21	2	0.13	0.02	0.13
(1,1280)	2:B:48:ASN:HD21	2:B:49:VAL:HG22	2	0.13	0.02	0.13
(1,1280)	2:B:48:ASN:HD21	2:B:49:VAL:HG23	2	0.13	0.02	0.13
(1,1280)	2:B:48:ASN:HD22	2:B:49:VAL:HG11	2	0.13	0.02	0.13
(1,1280)	2:B:48:ASN:HD22	2:B:49:VAL:HG12	2	0.13	0.02	0.13
(1,1280)	2:B:48:ASN:HD22	2:B:49:VAL:HG13	2	0.13	0.02	0.13
(1,1280)	2:B:48:ASN:HD22	2:B:49:VAL:HG21	2	0.13	0.02	0.13
(1,1280)	2:B:48:ASN:HD22	2:B:49:VAL:HG22	2	0.13	0.02	0.13
(1,1280)	2:B:48:ASN:HD22	2:B:49:VAL:HG23	2	0.13	0.02	0.13
(1,2167)	3:C:178:TYR:HE1	3:C:223:LEU:HB2	2	0.13	0.01	0.13
(1,2167)	3:C:178:TYR:HE1	3:C:223:LEU:HB3	2	0.13	0.01	0.13
(1,2167)	3:C:178:TYR:HE2	3:C:223:LEU:HB2	2	0.13	0.01	0.13
(1,2167)	3:C:178:TYR:HE2	3:C:223:LEU:HB3	2	0.13	0.01	0.13
(1,2282)	3:C:182:TYR:HE1	3:C:215:GLU:HG2	2	0.13	0.02	0.13
(1,2282)	3:C:182:TYR:HE1	3:C:215:GLU:HG3	2	0.13	0.02	0.13
(1,2282)	3:C:182:TYR:HE2	3:C:215:GLU:HG2	2	0.13	0.02	0.13
(1,2282)	3:C:182:TYR:HE2	3:C:215:GLU:HG3	2	0.13	0.02	0.13
(1,4435)	3:C:309:LYS:HA	3:C:310:ASP:HB2	2	0.13	0.02	0.13
(1,4435)	3:C:309:LYS:HA	3:C:310:ASP:HB3	2	0.13	0.02	0.13

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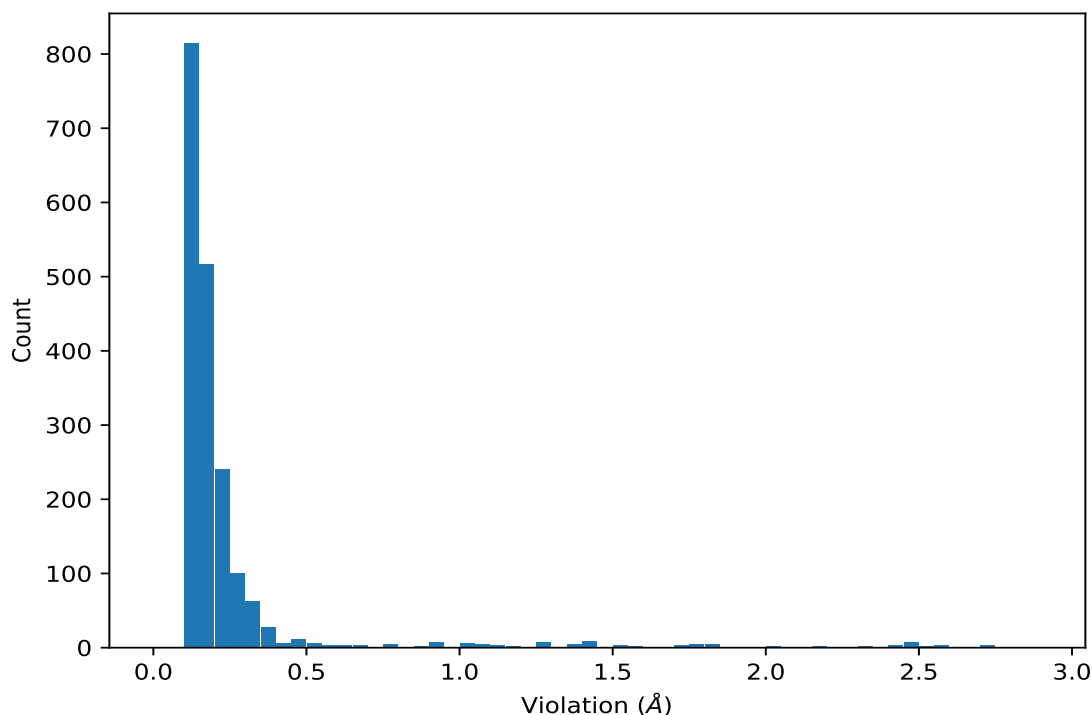
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,348)	2:B:47:SER:HB2	2:B:48:ASN:H	2	0.12	0.02	0.12
(1,667)	2:B:60:ASP:H	2:B:65:ARG:HB2	2	0.12	0.02	0.12
(1,767)	2:B:74:PHE:HD1	2:B:83:ALA:H	2	0.12	0.01	0.12
(1,767)	2:B:74:PHE:HD2	2:B:83:ALA:H	2	0.12	0.01	0.12
(1,2252)	3:C:181:LYS:HB2	3:C:182:TYR:HE1	2	0.12	0.01	0.12
(1,2252)	3:C:181:LYS:HB2	3:C:182:TYR:HE2	2	0.12	0.01	0.12
(1,2252)	3:C:181:LYS:HB3	3:C:182:TYR:HE1	2	0.12	0.01	0.12
(1,2252)	3:C:181:LYS:HB3	3:C:182:TYR:HE2	2	0.12	0.01	0.12
(1,2334)	3:C:185:VAL:HA	3:C:207:PHE:HE1	2	0.12	0.02	0.12
(1,2334)	3:C:185:VAL:HA	3:C:207:PHE:HE2	2	0.12	0.02	0.12
(1,597)	2:B:54:ASN:H	2:B:74:PHE:HA	2	0.12	0.01	0.12
(1,934)	2:B:45:LEU:HB2	2:B:90:TYR:HE1	2	0.12	0.01	0.12
(1,934)	2:B:45:LEU:HB2	2:B:90:TYR:HE2	2	0.12	0.01	0.12
(1,950)	2:B:89:GLY:HA2	2:B:96:PHE:HD1	2	0.12	0.01	0.12
(1,950)	2:B:89:GLY:HA2	2:B:96:PHE:HD2	2	0.12	0.01	0.12
(1,2716)	3:C:212:SER:HA	3:C:215:GLU:HG2	2	0.12	0.01	0.12
(1,2716)	3:C:212:SER:HA	3:C:215:GLU:HG3	2	0.12	0.01	0.12
(1,226)	2:B:39:GLU:HA	2:B:56:LYS:HA	2	0.12	0.0	0.12
(1,2007)	3:C:172:GLU:H	3:C:172:GLU:HG2	2	0.12	0.0	0.12
(1,2007)	3:C:172:GLU:H	3:C:172:GLU:HG3	2	0.12	0.0	0.12
(1,1602)	2:B:71:PHE:HE1	1:A:11:A:H8	2	0.11	0.0	0.11
(1,1602)	2:B:71:PHE:HE2	1:A:11:A:H8	2	0.11	0.0	0.11
(1,4408)	3:C:308:PHE:HD1	3:C:313:ILE:HB	2	0.11	0.0	0.11
(1,4408)	3:C:308:PHE:HD2	3:C:313:ILE:HB	2	0.11	0.0	0.11

¹Number of violated models, ²Standard deviation

9.5 All violated distance restraints [i](#)

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

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



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

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

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,133)	2:B:94:SER:H	1:A:5:U:H2'	7	2.88
(3,133)	2:B:94:SER:H	1:A:5:U:H2'	9	2.73
(3,70)	2:B:33:ILE:H	1:A:5:U:H2'	7	2.7
(1,4652)	3:C:286:PHE:HZ	1:A:2:A:H2'	8	2.7
(3,133)	2:B:94:SER:H	1:A:5:U:H2'	10	2.57
(3,133)	2:B:94:SER:H	1:A:5:U:H2'	3	2.55
(3,130)	2:B:91:GLN:HE21	1:A:5:U:H2'	7	2.55
(3,130)	2:B:91:GLN:HE22	1:A:5:U:H2'	7	2.55
(3,130)	2:B:91:GLN:HE21	1:A:5:U:H2'	8	2.52
(3,130)	2:B:91:GLN:HE22	1:A:5:U:H2'	8	2.52
(3,130)	2:B:91:GLN:HE21	1:A:5:U:H2'	1	2.49
(3,130)	2:B:91:GLN:HE22	1:A:5:U:H2'	1	2.49
(3,133)	2:B:94:SER:H	1:A:5:U:H2'	5	2.47
(3,130)	2:B:91:GLN:HE21	1:A:5:U:H2'	9	2.46
(3,130)	2:B:91:GLN:HE22	1:A:5:U:H2'	9	2.46
(3,130)	2:B:91:GLN:HE21	1:A:5:U:H2'	5	2.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,130)	2:B:91:GLN:HE22	1:A:5:U:H2'	5	2.45
(3,133)	2:B:94:SER:H	1:A:5:U:H2'	1	2.42
(3,130)	2:B:91:GLN:HE21	1:A:5:U:H2'	3	2.42
(3,130)	2:B:91:GLN:HE22	1:A:5:U:H2'	3	2.42
(1,4652)	3:C:286:PHE:HZ	1:A:2:A:H2'	7	2.41
(3,133)	2:B:94:SER:H	1:A:5:U:H2'	2	2.37
(3,130)	2:B:91:GLN:HE21	1:A:5:U:H2'	6	2.31
(3,130)	2:B:91:GLN:HE22	1:A:5:U:H2'	6	2.31
(3,106)	2:B:68:GLY:H	1:A:5:U:H2'	10	2.22
(3,130)	2:B:91:GLN:HE21	1:A:5:U:H2'	2	2.16
(3,130)	2:B:91:GLN:HE22	1:A:5:U:H2'	2	2.16
(1,4652)	3:C:286:PHE:HZ	1:A:2:A:H2'	3	2.13
(3,133)	2:B:94:SER:H	1:A:5:U:H2'	6	2.02
(1,4652)	3:C:286:PHE:HZ	1:A:2:A:H2'	1	2.01
(3,105)	2:B:67:LYS:H	1:A:5:U:H2'	9	1.84
(3,127)	2:B:89:GLY:H	1:A:5:U:H2'	9	1.82
(1,4652)	3:C:286:PHE:HZ	1:A:2:A:H2'	4	1.82
(3,4)	2:B:86:ASN:HD21	1:A:3:U:H2'	10	1.81
(3,4)	2:B:86:ASN:HD22	1:A:3:U:H2'	10	1.81
(3,70)	2:B:33:ILE:H	1:A:5:U:H2'	10	1.79
(1,4645)	3:C:246:PHE:HE1	1:A:1:U:H2'	9	1.77
(1,4645)	3:C:246:PHE:HE2	1:A:1:U:H2'	9	1.77
(3,127)	2:B:89:GLY:H	1:A:5:U:H2'	7	1.76
(3,127)	2:B:89:GLY:H	1:A:5:U:H2'	8	1.75
(3,133)	2:B:94:SER:H	1:A:5:U:H2'	8	1.73
(3,130)	2:B:91:GLN:HE21	1:A:5:U:H2'	4	1.71
(3,130)	2:B:91:GLN:HE22	1:A:5:U:H2'	4	1.71
(3,107)	2:B:69:TYR:H	1:A:5:U:H2'	7	1.69
(1,4652)	3:C:286:PHE:HZ	1:A:2:A:H2'	9	1.61
(3,107)	2:B:69:TYR:H	1:A:5:U:H2'	10	1.58
(3,70)	2:B:33:ILE:H	1:A:5:U:H2'	9	1.55
(3,106)	2:B:68:GLY:H	1:A:5:U:H2'	9	1.54
(3,4)	2:B:86:ASN:HD21	1:A:3:U:H2'	6	1.52
(3,4)	2:B:86:ASN:HD22	1:A:3:U:H2'	6	1.52
(3,127)	2:B:89:GLY:H	1:A:5:U:H2'	5	1.49
(3,133)	2:B:94:SER:H	1:A:5:U:H2'	4	1.44
(3,70)	2:B:33:ILE:H	1:A:5:U:H2'	1	1.42
(1,4651)	3:C:286:PHE:HE1	1:A:2:A:H2'	8	1.42
(1,4651)	3:C:286:PHE:HE2	1:A:2:A:H2'	8	1.42
(1,1578)	1:A:10:U:H1'	2:B:71:PHE:HE2	1	1.42
(3,130)	2:B:91:GLN:HE21	1:A:5:U:H2'	10	1.41
(3,130)	2:B:91:GLN:HE22	1:A:5:U:H2'	10	1.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,4)	2:B:86:ASN:HD21	1:A:3:U:H2'	7	1.4
(3,4)	2:B:86:ASN:HD22	1:A:3:U:H2'	7	1.4
(1,4651)	3:C:286:PHE:HE1	1:A:2:A:H2'	7	1.39
(1,4651)	3:C:286:PHE:HE2	1:A:2:A:H2'	7	1.39
(3,4)	2:B:86:ASN:HD21	1:A:3:U:H2'	2	1.35
(3,4)	2:B:86:ASN:HD22	1:A:3:U:H2'	2	1.35
(3,136)	2:B:97:LEU:H	1:A:5:U:H2'	9	1.35
(3,127)	2:B:89:GLY:H	1:A:5:U:H2'	1	1.34
(3,4)	2:B:86:ASN:HD21	1:A:3:U:H2'	4	1.29
(3,4)	2:B:86:ASN:HD22	1:A:3:U:H2'	4	1.29
(3,4)	2:B:86:ASN:HD21	1:A:3:U:H2'	9	1.26
(3,4)	2:B:86:ASN:HD22	1:A:3:U:H2'	9	1.26
(3,4)	2:B:86:ASN:HD21	1:A:3:U:H2'	8	1.25
(3,4)	2:B:86:ASN:HD22	1:A:3:U:H2'	8	1.25
(3,136)	2:B:97:LEU:H	1:A:5:U:H2'	7	1.25
(1,4652)	3:C:286:PHE:HZ	1:A:2:A:H2'	10	1.18
(1,4652)	3:C:286:PHE:HZ	1:A:2:A:H2'	6	1.16
(3,4)	2:B:86:ASN:HD21	1:A:3:U:H2'	1	1.12
(3,4)	2:B:86:ASN:HD22	1:A:3:U:H2'	1	1.12
(1,4651)	3:C:286:PHE:HE1	1:A:2:A:H2'	3	1.11
(1,4651)	3:C:286:PHE:HE2	1:A:2:A:H2'	3	1.11
(3,127)	2:B:89:GLY:H	1:A:5:U:H2'	3	1.09
(3,105)	2:B:67:LYS:H	1:A:5:U:H2'	7	1.09
(1,4645)	3:C:246:PHE:HE1	1:A:1:U:H2'	2	1.09
(1,4645)	3:C:246:PHE:HE2	1:A:1:U:H2'	2	1.09
(1,4598)	3:C:168:TRP:HE1	1:A:4:A:H2'	6	1.09
(3,106)	2:B:68:GLY:H	1:A:5:U:H2'	1	1.04
(3,93)	2:B:54:ASN:HD21	1:A:5:U:H2'	7	1.03
(3,93)	2:B:54:ASN:HD22	1:A:5:U:H2'	7	1.03
(1,4645)	3:C:246:PHE:HE1	1:A:1:U:H2'	5	1.03
(1,4645)	3:C:246:PHE:HE2	1:A:1:U:H2'	5	1.03
(3,105)	2:B:67:LYS:H	1:A:5:U:H2'	10	1.0
(3,106)	2:B:68:GLY:H	1:A:5:U:H2'	6	0.96
(3,93)	2:B:54:ASN:HD21	1:A:5:U:H2'	9	0.93
(3,93)	2:B:54:ASN:HD22	1:A:5:U:H2'	9	0.93
(3,107)	2:B:69:TYR:H	1:A:5:U:H2'	9	0.91
(1,4651)	3:C:286:PHE:HE1	1:A:2:A:H2'	4	0.91
(1,4651)	3:C:286:PHE:HE2	1:A:2:A:H2'	4	0.91
(3,136)	2:B:97:LEU:H	1:A:5:U:H2'	1	0.9
(3,109)	2:B:71:PHE:H	1:A:5:U:H2'	7	0.9
(3,75)	2:B:38:THR:H	1:A:5:U:H2'	7	0.89
(3,70)	2:B:33:ILE:H	1:A:5:U:H2'	6	0.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,70)	2:B:33:ILE:H	1:A:5:U:H2'	5	0.81
(3,93)	2:B:54:ASN:HD21	1:A:5:U:H2'	4	0.79
(3,93)	2:B:54:ASN:HD22	1:A:5:U:H2'	4	0.79
(1,4651)	3:C:286:PHE:HE1	1:A:2:A:H2'	9	0.78
(1,4651)	3:C:286:PHE:HE2	1:A:2:A:H2'	9	0.78
(3,136)	2:B:97:LEU:H	1:A:5:U:H2'	8	0.75
(3,109)	2:B:71:PHE:H	1:A:5:U:H2'	9	0.66
(1,1561)	1:A:9:A:H2	2:B:29:TYR:HD1	9	0.66
(3,105)	2:B:67:LYS:H	1:A:5:U:H2'	4	0.65
(3,106)	2:B:68:GLY:H	1:A:5:U:H2'	7	0.64
(1,1528)	1:A:11:A:H2'	1:A:12:A:H8	7	0.62
(1,1522)	1:A:10:U:H2'	1:A:11:A:H8	6	0.62
(1,4651)	3:C:286:PHE:HE1	1:A:2:A:H2'	6	0.58
(1,4651)	3:C:286:PHE:HE2	1:A:2:A:H2'	6	0.58
(1,1522)	1:A:10:U:H2'	1:A:11:A:H8	1	0.57
(3,107)	2:B:69:TYR:H	1:A:5:U:H2'	1	0.54
(1,1522)	1:A:10:U:H2'	1:A:11:A:H8	10	0.53
(3,141)	2:B:104:ASN:H	1:A:5:U:H2'	8	0.52
(3,109)	2:B:71:PHE:H	1:A:5:U:H2'	10	0.51
(1,1522)	1:A:10:U:H2'	1:A:11:A:H8	5	0.51
(3,127)	2:B:89:GLY:H	1:A:5:U:H2'	6	0.5
(3,136)	2:B:97:LEU:H	1:A:5:U:H2'	3	0.49
(1,67)	2:B:35:TYR:HE1	2:B:68:GLY:HA3	7	0.49
(1,67)	2:B:35:TYR:HE2	2:B:68:GLY:HA3	7	0.49
(1,1587)	2:B:58:MET:HG2	1:A:12:A:H8	7	0.49
(1,1587)	2:B:58:MET:HG3	1:A:12:A:H8	7	0.49
(3,70)	2:B:33:ILE:H	1:A:5:U:H2'	3	0.48
(3,70)	2:B:33:ILE:H	1:A:5:U:H2'	8	0.48
(1,4561)	1:A:5:U:H2'	1:A:5:U:H6	1	0.48
(3,70)	2:B:33:ILE:H	1:A:5:U:H2'	4	0.46
(3,127)	2:B:89:GLY:H	1:A:5:U:H2'	4	0.45
(1,4652)	3:C:286:PHE:HZ	1:A:2:A:H2'	5	0.45
(3,127)	2:B:89:GLY:H	1:A:5:U:H2'	2	0.44
(1,1517)	1:A:9:A:H2'	1:A:10:U:H5	10	0.44
(3,105)	2:B:67:LYS:H	1:A:5:U:H2'	2	0.43
(1,1527)	1:A:11:A:H2	1:A:12:A:H8	7	0.42
(1,3798)	3:C:267:GLY:H	3:C:291:TYR:HD1	10	0.41
(1,3798)	3:C:267:GLY:H	3:C:291:TYR:HD2	10	0.41
(3,93)	2:B:54:ASN:HD21	1:A:5:U:H2'	10	0.39
(3,93)	2:B:54:ASN:HD22	1:A:5:U:H2'	10	0.39
(1,4645)	3:C:246:PHE:HE1	1:A:1:U:H2'	6	0.39
(1,4645)	3:C:246:PHE:HE2	1:A:1:U:H2'	6	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4561)	1:A:5:U:H2'	1:A:5:U:H6	4	0.39
(1,4570)	1:A:7:U:H2'	1:A:7:U:H6	6	0.38
(1,1528)	1:A:11:A:H2'	1:A:12:A:H8	6	0.38
(1,4561)	1:A:5:U:H2'	1:A:5:U:H6	7	0.37
(1,4617)	3:C:202:PHE:HE1	1:A:7:U:H2'	1	0.36
(1,4617)	3:C:202:PHE:HE2	1:A:7:U:H2'	1	0.36
(1,4557)	1:A:4:A:H2'	1:A:4:A:H8	10	0.36
(3,93)	2:B:54:ASN:HD21	1:A:5:U:H2'	1	0.35
(3,93)	2:B:54:ASN:HD22	1:A:5:U:H2'	1	0.35
(3,106)	2:B:68:GLY:H	1:A:5:U:H2'	5	0.35
(1,4561)	1:A:5:U:H2'	1:A:5:U:H6	8	0.35
(1,1246)	2:B:45:LEU:HD11	2:B:90:TYR:HD1	2	0.35
(1,1246)	2:B:45:LEU:HD11	2:B:90:TYR:HD2	2	0.35
(1,1246)	2:B:45:LEU:HD12	2:B:90:TYR:HD1	2	0.35
(1,1246)	2:B:45:LEU:HD12	2:B:90:TYR:HD2	2	0.35
(1,1246)	2:B:45:LEU:HD13	2:B:90:TYR:HD1	2	0.35
(1,1246)	2:B:45:LEU:HD13	2:B:90:TYR:HD2	2	0.35
(1,1246)	2:B:45:LEU:HD21	2:B:90:TYR:HD1	2	0.35
(1,1246)	2:B:45:LEU:HD21	2:B:90:TYR:HD2	2	0.35
(1,1246)	2:B:45:LEU:HD22	2:B:90:TYR:HD1	2	0.35
(1,1246)	2:B:45:LEU:HD22	2:B:90:TYR:HD2	2	0.35
(1,1246)	2:B:45:LEU:HD23	2:B:90:TYR:HD1	2	0.35
(1,1246)	2:B:45:LEU:HD23	2:B:90:TYR:HD2	2	0.35
(1,4651)	3:C:286:PHE:HE1	1:A:2:A:H2'	10	0.34
(1,4651)	3:C:286:PHE:HE2	1:A:2:A:H2'	10	0.34
(1,4586)	3:C:164:GLY:HA2	1:A:5:U:H1'	4	0.34
(1,4586)	3:C:164:GLY:HA3	1:A:5:U:H1'	4	0.34
(1,1569)	1:A:9:A:H2	2:B:71:PHE:HB2	5	0.34
(1,1552)	1:A:8:A:H1'	2:B:69:TYR:HE1	10	0.34
(1,1552)	1:A:8:A:H1'	2:B:69:TYR:HE2	10	0.34
(1,4432)	3:C:309:LYS:HA	3:C:309:LYS:HE2	10	0.33
(1,4432)	3:C:309:LYS:HA	3:C:309:LYS:HE3	10	0.33
(1,4598)	3:C:168:TRP:HE1	1:A:4:A:H2'	3	0.32
(1,4586)	3:C:164:GLY:HA2	1:A:5:U:H1'	5	0.32
(1,4586)	3:C:164:GLY:HA3	1:A:5:U:H1'	5	0.32
(1,1246)	2:B:45:LEU:HD11	2:B:90:TYR:HD1	5	0.32
(1,1246)	2:B:45:LEU:HD11	2:B:90:TYR:HD2	5	0.32
(1,1246)	2:B:45:LEU:HD12	2:B:90:TYR:HD1	5	0.32
(1,1246)	2:B:45:LEU:HD12	2:B:90:TYR:HD2	5	0.32
(1,1246)	2:B:45:LEU:HD13	2:B:90:TYR:HD1	5	0.32
(1,1246)	2:B:45:LEU:HD13	2:B:90:TYR:HD2	5	0.32
(1,1246)	2:B:45:LEU:HD21	2:B:90:TYR:HD1	5	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1246)	2:B:45:LEU:HD21	2:B:90:TYR:HD2	5	0.32
(1,1246)	2:B:45:LEU:HD22	2:B:90:TYR:HD1	5	0.32
(1,1246)	2:B:45:LEU:HD22	2:B:90:TYR:HD2	5	0.32
(1,1246)	2:B:45:LEU:HD23	2:B:90:TYR:HD1	5	0.32
(1,1246)	2:B:45:LEU:HD23	2:B:90:TYR:HD2	5	0.32
(1,877)	2:B:27:VAL:HG21	2:B:71:PHE:HE1	3	0.3
(1,877)	2:B:27:VAL:HG21	2:B:71:PHE:HE2	3	0.3
(1,877)	2:B:27:VAL:HG22	2:B:71:PHE:HE1	3	0.3
(1,877)	2:B:27:VAL:HG22	2:B:71:PHE:HE2	3	0.3
(1,877)	2:B:27:VAL:HG23	2:B:71:PHE:HE1	3	0.3
(1,877)	2:B:27:VAL:HG23	2:B:71:PHE:HE2	3	0.3
(1,805)	2:B:88:ASN:H	2:B:97:LEU:HD21	9	0.3
(1,805)	2:B:88:ASN:H	2:B:97:LEU:HD22	9	0.3
(1,805)	2:B:88:ASN:H	2:B:97:LEU:HD23	9	0.3
(1,3274)	3:C:246:PHE:HD1	3:C:319:GLU:H	8	0.3
(1,3274)	3:C:246:PHE:HD2	3:C:319:GLU:H	8	0.3
(1,2099)	3:C:176:ARG:HD2	3:C:188:LEU:HB2	4	0.3
(1,2099)	3:C:176:ARG:HD2	3:C:188:LEU:HB3	4	0.3
(1,2099)	3:C:176:ARG:HD3	3:C:188:LEU:HB2	4	0.3
(1,2099)	3:C:176:ARG:HD3	3:C:188:LEU:HB3	4	0.3
(1,1474)	2:B:90:TYR:HB2	2:B:97:LEU:HD11	2	0.3
(1,1474)	2:B:90:TYR:HB2	2:B:97:LEU:HD12	2	0.3
(1,1474)	2:B:90:TYR:HB2	2:B:97:LEU:HD13	2	0.3
(1,1474)	2:B:90:TYR:HB2	2:B:97:LEU:HD21	2	0.3
(1,1474)	2:B:90:TYR:HB2	2:B:97:LEU:HD22	2	0.3
(1,1474)	2:B:90:TYR:HB2	2:B:97:LEU:HD23	2	0.3
(1,1474)	2:B:90:TYR:HB2	2:B:97:LEU:HD11	9	0.3
(1,1474)	2:B:90:TYR:HB2	2:B:97:LEU:HD12	9	0.3
(1,1474)	2:B:90:TYR:HB2	2:B:97:LEU:HD13	9	0.3
(1,1474)	2:B:90:TYR:HB2	2:B:97:LEU:HD21	9	0.3
(1,1474)	2:B:90:TYR:HB2	2:B:97:LEU:HD22	9	0.3
(1,1474)	2:B:90:TYR:HB2	2:B:97:LEU:HD23	9	0.3
(1,1112)	2:B:27:VAL:HG11	2:B:103:SER:HB2	6	0.3
(1,1112)	2:B:27:VAL:HG11	2:B:103:SER:HB3	6	0.3
(1,1112)	2:B:27:VAL:HG12	2:B:103:SER:HB2	6	0.3
(1,1112)	2:B:27:VAL:HG12	2:B:103:SER:HB3	6	0.3
(1,1112)	2:B:27:VAL:HG13	2:B:103:SER:HB2	6	0.3
(1,1112)	2:B:27:VAL:HG13	2:B:103:SER:HB3	6	0.3
(1,1112)	2:B:27:VAL:HG21	2:B:103:SER:HB2	6	0.3
(1,1112)	2:B:27:VAL:HG21	2:B:103:SER:HB3	6	0.3
(1,1112)	2:B:27:VAL:HG22	2:B:103:SER:HB2	6	0.3
(1,1112)	2:B:27:VAL:HG22	2:B:103:SER:HB3	6	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1112)	2:B:27:VAL:HG23	2:B:103:SER:HB2	6	0.3
(1,1112)	2:B:27:VAL:HG23	2:B:103:SER:HB3	6	0.3
(1,4617)	3:C:202:PHE:HE1	1:A:7:U:H2'	5	0.29
(1,4617)	3:C:202:PHE:HE2	1:A:7:U:H2'	5	0.29
(1,4561)	1:A:5:U:H2'	1:A:5:U:H6	5	0.29
(3,136)	2:B:97:LEU:H	1:A:5:U:H2'	6	0.28
(1,3704)	3:C:265:GLN:HA	3:C:266:TRP:HE3	4	0.28
(1,1569)	1:A:9:A:H2	2:B:71:PHE:HB2	7	0.28
(1,1518)	1:A:9:A:H2'	1:A:10:U:H6	3	0.28
(1,584)	2:B:72:ILE:HG21	2:B:73:GLU:H	8	0.27
(1,584)	2:B:72:ILE:HG22	2:B:73:GLU:H	8	0.27
(1,584)	2:B:72:ILE:HG23	2:B:73:GLU:H	8	0.27
(1,557)	2:B:49:VAL:H	2:B:83:ALA:HB1	2	0.27
(1,557)	2:B:49:VAL:H	2:B:83:ALA:HB2	2	0.27
(1,557)	2:B:49:VAL:H	2:B:83:ALA:HB3	2	0.27
(1,4009)	3:C:280:THR:HA	3:C:282:GLN:H	4	0.27
(1,3787)	3:C:266:TRP:HZ3	3:C:291:TYR:HE1	9	0.27
(1,3787)	3:C:266:TRP:HZ3	3:C:291:TYR:HE2	9	0.27
(1,2147)	3:C:178:TYR:HD1	3:C:182:TYR:HE1	10	0.27
(1,2147)	3:C:178:TYR:HD1	3:C:182:TYR:HE2	10	0.27
(1,2147)	3:C:178:TYR:HD2	3:C:182:TYR:HE1	10	0.27
(1,2147)	3:C:178:TYR:HD2	3:C:182:TYR:HE2	10	0.27
(1,1474)	2:B:90:TYR:HB2	2:B:97:LEU:HD11	5	0.27
(1,1474)	2:B:90:TYR:HB2	2:B:97:LEU:HD12	5	0.27
(1,1474)	2:B:90:TYR:HB2	2:B:97:LEU:HD13	5	0.27
(1,1474)	2:B:90:TYR:HB2	2:B:97:LEU:HD21	5	0.27
(1,1474)	2:B:90:TYR:HB2	2:B:97:LEU:HD22	5	0.27
(1,1474)	2:B:90:TYR:HB2	2:B:97:LEU:HD23	5	0.27
(1,709)	2:B:33:ILE:HB	2:B:68:GLY:H	7	0.26
(1,4543)	1:A:1:U:H2'	1:A:1:U:H6	7	0.26
(1,4543)	1:A:1:U:H2'	1:A:1:U:H6	10	0.26
(1,405)	2:B:28:VAL:H	2:B:72:ILE:HG21	10	0.26
(1,405)	2:B:28:VAL:H	2:B:72:ILE:HG22	10	0.26
(1,405)	2:B:28:VAL:H	2:B:72:ILE:HG23	10	0.26
(1,3881)	3:C:270:ILE:HG21	3:C:292:ASP:H	6	0.26
(1,3881)	3:C:270:ILE:HG22	3:C:292:ASP:H	6	0.26
(1,3881)	3:C:270:ILE:HG23	3:C:292:ASP:H	6	0.26
(1,3764)	3:C:266:TRP:HE3	3:C:300:VAL:HG11	6	0.26
(1,3764)	3:C:266:TRP:HE3	3:C:300:VAL:HG12	6	0.26
(1,3764)	3:C:266:TRP:HE3	3:C:300:VAL:HG13	6	0.26
(1,3764)	3:C:266:TRP:HE3	3:C:300:VAL:HG21	6	0.26
(1,3764)	3:C:266:TRP:HE3	3:C:300:VAL:HG22	6	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3764)	3:C:266:TRP:HE3	3:C:300:VAL:HG23	6	0.26
(1,3725)	3:C:266:TRP:HA	3:C:291:TYR:HE1	3	0.26
(1,3725)	3:C:266:TRP:HA	3:C:291:TYR:HE2	3	0.26
(1,3)	2:B:101:TYR:H	2:B:102:SER:HB3	6	0.26
(1,2646)	3:C:207:PHE:HB2	3:C:209:LYS:H	10	0.26
(1,2646)	3:C:207:PHE:HB3	3:C:209:LYS:H	10	0.26
(1,1861)	3:C:166:LEU:HD11	3:C:228:ILE:HG21	10	0.26
(1,1861)	3:C:166:LEU:HD11	3:C:228:ILE:HG22	10	0.26
(1,1861)	3:C:166:LEU:HD11	3:C:228:ILE:HG23	10	0.26
(1,1861)	3:C:166:LEU:HD12	3:C:228:ILE:HG21	10	0.26
(1,1861)	3:C:166:LEU:HD12	3:C:228:ILE:HG22	10	0.26
(1,1861)	3:C:166:LEU:HD12	3:C:228:ILE:HG23	10	0.26
(1,1861)	3:C:166:LEU:HD13	3:C:228:ILE:HG21	10	0.26
(1,1861)	3:C:166:LEU:HD13	3:C:228:ILE:HG22	10	0.26
(1,1861)	3:C:166:LEU:HD13	3:C:228:ILE:HG23	10	0.26
(1,1861)	3:C:166:LEU:HD21	3:C:228:ILE:HG21	10	0.26
(1,1861)	3:C:166:LEU:HD21	3:C:228:ILE:HG22	10	0.26
(1,1861)	3:C:166:LEU:HD21	3:C:228:ILE:HG23	10	0.26
(1,1861)	3:C:166:LEU:HD22	3:C:228:ILE:HG21	10	0.26
(1,1861)	3:C:166:LEU:HD22	3:C:228:ILE:HG22	10	0.26
(1,1861)	3:C:166:LEU:HD22	3:C:228:ILE:HG23	10	0.26
(1,1861)	3:C:166:LEU:HD23	3:C:228:ILE:HG21	10	0.26
(1,1861)	3:C:166:LEU:HD23	3:C:228:ILE:HG22	10	0.26
(1,1861)	3:C:166:LEU:HD23	3:C:228:ILE:HG23	10	0.26
(1,1555)	1:A:9:A:H2'	2:B:29:TYR:HE1	10	0.26
(1,1555)	1:A:9:A:H2'	2:B:29:TYR:HE2	10	0.26
(1,1281)	2:B:49:VAL:H	2:B:49:VAL:HG11	9	0.26
(1,1281)	2:B:49:VAL:H	2:B:49:VAL:HG12	9	0.26
(1,1281)	2:B:49:VAL:H	2:B:49:VAL:HG13	9	0.26
(1,1281)	2:B:49:VAL:H	2:B:49:VAL:HG21	9	0.26
(1,1281)	2:B:49:VAL:H	2:B:49:VAL:HG22	9	0.26
(1,1281)	2:B:49:VAL:H	2:B:49:VAL:HG23	9	0.26
(1,1105)	2:B:27:VAL:HG11	2:B:100:GLY:HA2	4	0.26
(1,1105)	2:B:27:VAL:HG11	2:B:100:GLY:HA3	4	0.26
(1,1105)	2:B:27:VAL:HG12	2:B:100:GLY:HA2	4	0.26
(1,1105)	2:B:27:VAL:HG12	2:B:100:GLY:HA3	4	0.26
(1,1105)	2:B:27:VAL:HG13	2:B:100:GLY:HA2	4	0.26
(1,1105)	2:B:27:VAL:HG13	2:B:100:GLY:HA3	4	0.26
(1,1105)	2:B:27:VAL:HG21	2:B:100:GLY:HA2	4	0.26
(1,1105)	2:B:27:VAL:HG21	2:B:100:GLY:HA3	4	0.26
(1,1105)	2:B:27:VAL:HG22	2:B:100:GLY:HA2	4	0.26
(1,1105)	2:B:27:VAL:HG22	2:B:100:GLY:HA3	4	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1105)	2:B:27:VAL:HG23	2:B:100:GLY:HA2	4	0.26
(1,1105)	2:B:27:VAL:HG23	2:B:100:GLY:HA3	4	0.26
(1,4543)	1:A:1:U:H2'	1:A:1:U:H6	2	0.25
(1,4543)	1:A:1:U:H2'	1:A:1:U:H6	5	0.25
(1,3589)	3:C:262:PHE:HD1	3:C:266:TRP:HE3	4	0.25
(1,3589)	3:C:262:PHE:HD2	3:C:266:TRP:HE3	4	0.25
(1,3574)	3:C:262:PHE:HA	3:C:308:PHE:HE1	4	0.25
(1,3574)	3:C:262:PHE:HA	3:C:308:PHE:HE2	4	0.25
(1,3574)	3:C:262:PHE:HA	3:C:308:PHE:HE1	5	0.25
(1,3574)	3:C:262:PHE:HA	3:C:308:PHE:HE2	5	0.25
(1,1257)	2:B:46:CYS:HA	2:B:92:LEU:HD11	2	0.25
(1,1257)	2:B:46:CYS:HA	2:B:92:LEU:HD12	2	0.25
(1,1257)	2:B:46:CYS:HA	2:B:92:LEU:HD13	2	0.25
(1,1257)	2:B:46:CYS:HA	2:B:92:LEU:HD21	2	0.25
(1,1257)	2:B:46:CYS:HA	2:B:92:LEU:HD22	2	0.25
(1,1257)	2:B:46:CYS:HA	2:B:92:LEU:HD23	2	0.25
(1,1157)	2:B:33:ILE:HB	2:B:93:GLY:HA2	7	0.25
(1,1157)	2:B:33:ILE:HB	2:B:93:GLY:HA3	7	0.25
(3,4)	2:B:86:ASN:HD21	1:A:3:U:H2'	3	0.24
(3,4)	2:B:86:ASN:HD22	1:A:3:U:H2'	3	0.24
(1,513)	2:B:40:GLU:HG2	2:B:44:ASP:H	7	0.24
(1,513)	2:B:40:GLU:HG3	2:B:44:ASP:H	7	0.24
(1,4649)	3:C:275:MET:HG2	1:A:3:U:H1'	2	0.24
(1,4649)	3:C:275:MET:HG3	1:A:3:U:H1'	2	0.24
(1,3851)	3:C:269:ILE:HG21	3:C:289:VAL:HG11	5	0.24
(1,3851)	3:C:269:ILE:HG21	3:C:289:VAL:HG12	5	0.24
(1,3851)	3:C:269:ILE:HG21	3:C:289:VAL:HG13	5	0.24
(1,3851)	3:C:269:ILE:HG21	3:C:289:VAL:HG21	5	0.24
(1,3851)	3:C:269:ILE:HG21	3:C:289:VAL:HG22	5	0.24
(1,3851)	3:C:269:ILE:HG21	3:C:289:VAL:HG23	5	0.24
(1,3851)	3:C:269:ILE:HG22	3:C:289:VAL:HG11	5	0.24
(1,3851)	3:C:269:ILE:HG22	3:C:289:VAL:HG12	5	0.24
(1,3851)	3:C:269:ILE:HG22	3:C:289:VAL:HG13	5	0.24
(1,3851)	3:C:269:ILE:HG22	3:C:289:VAL:HG21	5	0.24
(1,3851)	3:C:269:ILE:HG22	3:C:289:VAL:HG22	5	0.24
(1,3851)	3:C:269:ILE:HG22	3:C:289:VAL:HG23	5	0.24
(1,3851)	3:C:269:ILE:HG23	3:C:289:VAL:HG11	5	0.24
(1,3851)	3:C:269:ILE:HG23	3:C:289:VAL:HG12	5	0.24
(1,3851)	3:C:269:ILE:HG23	3:C:289:VAL:HG13	5	0.24
(1,3851)	3:C:269:ILE:HG23	3:C:289:VAL:HG21	5	0.24
(1,3851)	3:C:269:ILE:HG23	3:C:289:VAL:HG22	5	0.24
(1,3851)	3:C:269:ILE:HG23	3:C:289:VAL:HG23	5	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1912)	3:C:168:TRP:HD1	3:C:201:GLY:H	6	0.24
(1,1596)	2:B:69:TYR:HD1	1:A:10:U:H5	4	0.24
(1,1596)	2:B:69:TYR:HD2	1:A:10:U:H5	4	0.24
(1,1281)	2:B:49:VAL:H	2:B:49:VAL:HG11	8	0.24
(1,1281)	2:B:49:VAL:H	2:B:49:VAL:HG12	8	0.24
(1,1281)	2:B:49:VAL:H	2:B:49:VAL:HG13	8	0.24
(1,1281)	2:B:49:VAL:H	2:B:49:VAL:HG21	8	0.24
(1,1281)	2:B:49:VAL:H	2:B:49:VAL:HG22	8	0.24
(1,1281)	2:B:49:VAL:H	2:B:49:VAL:HG23	8	0.24
(1,1168)	2:B:34:PRO:HD2	2:B:37:GLN:HG2	2	0.24
(1,1168)	2:B:34:PRO:HD2	2:B:37:GLN:HG3	2	0.24
(1,1168)	2:B:34:PRO:HD3	2:B:37:GLN:HG2	2	0.24
(1,1168)	2:B:34:PRO:HD3	2:B:37:GLN:HG3	2	0.24
(1,1142)	2:B:30:LEU:HB2	2:B:69:TYR:HD1	5	0.24
(1,1142)	2:B:30:LEU:HB2	2:B:69:TYR:HD2	5	0.24
(1,1142)	2:B:30:LEU:HB3	2:B:69:TYR:HD1	5	0.24
(1,1142)	2:B:30:LEU:HB3	2:B:69:TYR:HD2	5	0.24
(1,954)	2:B:58:MET:HE1	2:B:71:PHE:HE1	7	0.23
(1,954)	2:B:58:MET:HE1	2:B:71:PHE:HE2	7	0.23
(1,954)	2:B:58:MET:HE2	2:B:71:PHE:HE1	7	0.23
(1,954)	2:B:58:MET:HE2	2:B:71:PHE:HE2	7	0.23
(1,954)	2:B:58:MET:HE3	2:B:71:PHE:HE1	7	0.23
(1,954)	2:B:58:MET:HE3	2:B:71:PHE:HE2	7	0.23
(1,823)	2:B:91:GLN:H	2:B:96:PHE:HE1	3	0.23
(1,823)	2:B:91:GLN:H	2:B:96:PHE:HE2	3	0.23
(1,538)	2:B:77:LEU:HA	2:B:79:SER:H	4	0.23
(1,52)	2:B:72:ILE:HB	2:B:74:PHE:HD1	7	0.23
(1,52)	2:B:72:ILE:HB	2:B:74:PHE:HD2	7	0.23
(1,3619)	3:C:262:PHE:HZ	3:C:266:TRP:HH2	2	0.23
(1,2511)	3:C:195:ALA:HB1	3:C:196:THR:HG21	10	0.23
(1,2511)	3:C:195:ALA:HB1	3:C:196:THR:HG22	10	0.23
(1,2511)	3:C:195:ALA:HB1	3:C:196:THR:HG23	10	0.23
(1,2511)	3:C:195:ALA:HB2	3:C:196:THR:HG21	10	0.23
(1,2511)	3:C:195:ALA:HB2	3:C:196:THR:HG22	10	0.23
(1,2511)	3:C:195:ALA:HB2	3:C:196:THR:HG23	10	0.23
(1,2511)	3:C:195:ALA:HB3	3:C:196:THR:HG21	10	0.23
(1,2511)	3:C:195:ALA:HB3	3:C:196:THR:HG22	10	0.23
(1,2511)	3:C:195:ALA:HB3	3:C:196:THR:HG23	10	0.23
(1,1517)	1:A:9:A:H2'	1:A:10:U:H5	3	0.23
(1,1146)	2:B:30:LEU:HD11	2:B:69:TYR:HE1	4	0.23
(1,1146)	2:B:30:LEU:HD11	2:B:69:TYR:HE2	4	0.23
(1,1146)	2:B:30:LEU:HD12	2:B:69:TYR:HE1	4	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1146)	2:B:30:LEU:HD12	2:B:69:TYR:HE2	4	0.23
(1,1146)	2:B:30:LEU:HD13	2:B:69:TYR:HE1	4	0.23
(1,1146)	2:B:30:LEU:HD13	2:B:69:TYR:HE2	4	0.23
(1,1146)	2:B:30:LEU:HD21	2:B:69:TYR:HE1	4	0.23
(1,1146)	2:B:30:LEU:HD21	2:B:69:TYR:HE2	4	0.23
(1,1146)	2:B:30:LEU:HD22	2:B:69:TYR:HE1	4	0.23
(1,1146)	2:B:30:LEU:HD22	2:B:69:TYR:HE2	4	0.23
(1,1146)	2:B:30:LEU:HD23	2:B:69:TYR:HE1	4	0.23
(1,1146)	2:B:30:LEU:HD23	2:B:69:TYR:HE2	4	0.23
(1,956)	2:B:35:TYR:HD1	2:B:59:PHE:HE1	7	0.22
(1,956)	2:B:35:TYR:HD1	2:B:59:PHE:HE2	7	0.22
(1,956)	2:B:35:TYR:HD2	2:B:59:PHE:HE1	7	0.22
(1,956)	2:B:35:TYR:HD2	2:B:59:PHE:HE2	7	0.22
(1,846)	2:B:95:ARG:H	2:B:96:PHE:H	10	0.22
(1,448)	2:B:39:GLU:H	2:B:39:GLU:HG3	2	0.22
(1,405)	2:B:28:VAL:H	2:B:72:ILE:HG21	5	0.22
(1,405)	2:B:28:VAL:H	2:B:72:ILE:HG22	5	0.22
(1,405)	2:B:28:VAL:H	2:B:72:ILE:HG23	5	0.22
(1,4023)	3:C:282:GLN:HA	3:C:286:PHE:HZ	10	0.22
(1,3787)	3:C:266:TRP:HZ3	3:C:291:TYR:HE1	3	0.22
(1,3787)	3:C:266:TRP:HZ3	3:C:291:TYR:HE2	3	0.22
(1,3574)	3:C:262:PHE:HA	3:C:308:PHE:HE1	6	0.22
(1,3574)	3:C:262:PHE:HA	3:C:308:PHE:HE2	6	0.22
(1,303)	2:B:86:ASN:H	2:B:86:ASN:HB2	2	0.22
(1,2954)	3:C:227:VAL:HG11	3:C:276:LEU:HD11	8	0.22
(1,2954)	3:C:227:VAL:HG11	3:C:276:LEU:HD12	8	0.22
(1,2954)	3:C:227:VAL:HG11	3:C:276:LEU:HD13	8	0.22
(1,2954)	3:C:227:VAL:HG11	3:C:276:LEU:HD21	8	0.22
(1,2954)	3:C:227:VAL:HG11	3:C:276:LEU:HD22	8	0.22
(1,2954)	3:C:227:VAL:HG11	3:C:276:LEU:HD23	8	0.22
(1,2954)	3:C:227:VAL:HG12	3:C:276:LEU:HD11	8	0.22
(1,2954)	3:C:227:VAL:HG12	3:C:276:LEU:HD12	8	0.22
(1,2954)	3:C:227:VAL:HG12	3:C:276:LEU:HD13	8	0.22
(1,2954)	3:C:227:VAL:HG12	3:C:276:LEU:HD21	8	0.22
(1,2954)	3:C:227:VAL:HG12	3:C:276:LEU:HD22	8	0.22
(1,2954)	3:C:227:VAL:HG12	3:C:276:LEU:HD23	8	0.22
(1,2954)	3:C:227:VAL:HG13	3:C:276:LEU:HD11	8	0.22
(1,2954)	3:C:227:VAL:HG13	3:C:276:LEU:HD12	8	0.22
(1,2954)	3:C:227:VAL:HG13	3:C:276:LEU:HD13	8	0.22
(1,2954)	3:C:227:VAL:HG13	3:C:276:LEU:HD21	8	0.22
(1,2954)	3:C:227:VAL:HG13	3:C:276:LEU:HD22	8	0.22
(1,2954)	3:C:227:VAL:HG13	3:C:276:LEU:HD23	8	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2954)	3:C:227:VAL:HG21	3:C:276:LEU:HD11	8	0.22
(1,2954)	3:C:227:VAL:HG21	3:C:276:LEU:HD12	8	0.22
(1,2954)	3:C:227:VAL:HG21	3:C:276:LEU:HD13	8	0.22
(1,2954)	3:C:227:VAL:HG21	3:C:276:LEU:HD21	8	0.22
(1,2954)	3:C:227:VAL:HG21	3:C:276:LEU:HD22	8	0.22
(1,2954)	3:C:227:VAL:HG21	3:C:276:LEU:HD23	8	0.22
(1,2954)	3:C:227:VAL:HG22	3:C:276:LEU:HD11	8	0.22
(1,2954)	3:C:227:VAL:HG22	3:C:276:LEU:HD12	8	0.22
(1,2954)	3:C:227:VAL:HG22	3:C:276:LEU:HD13	8	0.22
(1,2954)	3:C:227:VAL:HG22	3:C:276:LEU:HD21	8	0.22
(1,2954)	3:C:227:VAL:HG22	3:C:276:LEU:HD22	8	0.22
(1,2954)	3:C:227:VAL:HG22	3:C:276:LEU:HD23	8	0.22
(1,2954)	3:C:227:VAL:HG23	3:C:276:LEU:HD11	8	0.22
(1,2954)	3:C:227:VAL:HG23	3:C:276:LEU:HD12	8	0.22
(1,2954)	3:C:227:VAL:HG23	3:C:276:LEU:HD13	8	0.22
(1,2954)	3:C:227:VAL:HG23	3:C:276:LEU:HD21	8	0.22
(1,2954)	3:C:227:VAL:HG23	3:C:276:LEU:HD22	8	0.22
(1,2954)	3:C:227:VAL:HG23	3:C:276:LEU:HD23	8	0.22
(1,2783)	3:C:216:VAL:HB	3:C:217:VAL:H	6	0.22
(1,2679)	3:C:208:GLU:H	3:C:209:LYS:H	4	0.22
(1,258)	2:B:37:GLN:HB3	2:B:42:ILE:HD11	7	0.22
(1,258)	2:B:37:GLN:HB3	2:B:42:ILE:HD12	7	0.22
(1,258)	2:B:37:GLN:HB3	2:B:42:ILE:HD13	7	0.22
(1,192)	2:B:77:LEU:HD11	2:B:81:ALA:HB1	9	0.22
(1,192)	2:B:77:LEU:HD11	2:B:81:ALA:HB2	9	0.22
(1,192)	2:B:77:LEU:HD11	2:B:81:ALA:HB3	9	0.22
(1,192)	2:B:77:LEU:HD12	2:B:81:ALA:HB1	9	0.22
(1,192)	2:B:77:LEU:HD12	2:B:81:ALA:HB2	9	0.22
(1,192)	2:B:77:LEU:HD12	2:B:81:ALA:HB3	9	0.22
(1,192)	2:B:77:LEU:HD13	2:B:81:ALA:HB1	9	0.22
(1,192)	2:B:77:LEU:HD13	2:B:81:ALA:HB2	9	0.22
(1,192)	2:B:77:LEU:HD13	2:B:81:ALA:HB3	9	0.22
(1,1861)	3:C:166:LEU:HD11	3:C:228:ILE:HG21	4	0.22
(1,1861)	3:C:166:LEU:HD11	3:C:228:ILE:HG22	4	0.22
(1,1861)	3:C:166:LEU:HD11	3:C:228:ILE:HG23	4	0.22
(1,1861)	3:C:166:LEU:HD12	3:C:228:ILE:HG21	4	0.22
(1,1861)	3:C:166:LEU:HD12	3:C:228:ILE:HG22	4	0.22
(1,1861)	3:C:166:LEU:HD12	3:C:228:ILE:HG23	4	0.22
(1,1861)	3:C:166:LEU:HD13	3:C:228:ILE:HG21	4	0.22
(1,1861)	3:C:166:LEU:HD13	3:C:228:ILE:HG22	4	0.22
(1,1861)	3:C:166:LEU:HD13	3:C:228:ILE:HG23	4	0.22
(1,1861)	3:C:166:LEU:HD21	3:C:228:ILE:HG21	4	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1861)	3:C:166:LEU:HD21	3:C:228:ILE:HG22	4	0.22
(1,1861)	3:C:166:LEU:HD21	3:C:228:ILE:HG23	4	0.22
(1,1861)	3:C:166:LEU:HD22	3:C:228:ILE:HG21	4	0.22
(1,1861)	3:C:166:LEU:HD22	3:C:228:ILE:HG22	4	0.22
(1,1861)	3:C:166:LEU:HD22	3:C:228:ILE:HG23	4	0.22
(1,1861)	3:C:166:LEU:HD23	3:C:228:ILE:HG21	4	0.22
(1,1861)	3:C:166:LEU:HD23	3:C:228:ILE:HG22	4	0.22
(1,1861)	3:C:166:LEU:HD23	3:C:228:ILE:HG23	4	0.22
(1,1780)	3:C:163:ILE:HD11	3:C:206:SER:H	10	0.22
(1,1780)	3:C:163:ILE:HD12	3:C:206:SER:H	10	0.22
(1,1780)	3:C:163:ILE:HD13	3:C:206:SER:H	10	0.22
(1,1556)	1:A:9:A:H1'	2:B:71:PHE:HE1	7	0.22
(1,1556)	1:A:9:A:H1'	2:B:71:PHE:HE2	7	0.22
(1,1552)	1:A:8:A:H1'	2:B:69:TYR:HE1	5	0.22
(1,1552)	1:A:8:A:H1'	2:B:69:TYR:HE2	5	0.22
(1,93)	2:B:28:VAL:HB	2:B:74:PHE:HE1	7	0.21
(1,93)	2:B:28:VAL:HB	2:B:74:PHE:HE2	7	0.21
(1,846)	2:B:95:ARG:H	2:B:96:PHE:H	6	0.21
(1,846)	2:B:95:ARG:H	2:B:96:PHE:H	7	0.21
(1,513)	2:B:40:GLU:HG2	2:B:44:ASP:H	4	0.21
(1,513)	2:B:40:GLU:HG3	2:B:44:ASP:H	4	0.21
(1,4574)	3:C:162:PHE:HB2	1:A:5:U:H6	7	0.21
(1,4574)	3:C:162:PHE:HB3	1:A:5:U:H6	7	0.21
(1,440)	2:B:37:GLN:HB2	2:B:38:THR:H	2	0.21
(1,436)	2:B:37:GLN:HE21	2:B:38:THR:H	4	0.21
(1,436)	2:B:37:GLN:HE21	2:B:38:THR:H	5	0.21
(1,4332)	3:C:305:PHE:HE1	3:C:314:GLU:HA	10	0.21
(1,4332)	3:C:305:PHE:HE2	3:C:314:GLU:HA	10	0.21
(1,347)	2:B:45:LEU:HA	2:B:48:ASN:H	4	0.21
(1,3400)	3:C:254:VAL:HB	3:C:308:PHE:HD1	8	0.21
(1,3400)	3:C:254:VAL:HB	3:C:308:PHE:HD2	8	0.21
(1,3369)	3:C:250:ILE:HG21	3:C:308:PHE:HE1	9	0.21
(1,3369)	3:C:250:ILE:HG21	3:C:308:PHE:HE2	9	0.21
(1,3369)	3:C:250:ILE:HG22	3:C:308:PHE:HE1	9	0.21
(1,3369)	3:C:250:ILE:HG22	3:C:308:PHE:HE2	9	0.21
(1,3369)	3:C:250:ILE:HG23	3:C:308:PHE:HE1	9	0.21
(1,3369)	3:C:250:ILE:HG23	3:C:308:PHE:HE2	9	0.21
(1,1593)	2:B:69:TYR:HB3	1:A:10:U:H6	10	0.21
(3,109)	2:B:71:PHE:H	1:A:5:U:H2'	1	0.2
(1,846)	2:B:95:ARG:H	2:B:96:PHE:H	1	0.2
(1,846)	2:B:95:ARG:H	2:B:96:PHE:H	5	0.2
(1,846)	2:B:95:ARG:H	2:B:96:PHE:H	8	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,843)	2:B:33:ILE:HG12	2:B:95:ARG:H	7	0.2
(1,843)	2:B:33:ILE:HG13	2:B:95:ARG:H	7	0.2
(1,734)	2:B:76:ASP:H	2:B:76:ASP:HB3	5	0.2
(1,554)	2:B:49:VAL:H	2:B:74:PHE:HZ	7	0.2
(1,491)	2:B:42:ILE:H	2:B:42:ILE:HG12	10	0.2
(1,4649)	3:C:275:MET:HG2	1:A:3:U:H1'	10	0.2
(1,4649)	3:C:275:MET:HG3	1:A:3:U:H1'	10	0.2
(1,4596)	3:C:168:TRP:HD1	1:A:4:A:H8	6	0.2
(1,436)	2:B:37:GLN:HE21	2:B:38:THR:H	6	0.2
(1,3972)	3:C:276:LEU:HD11	3:C:282:GLN:HA	3	0.2
(1,3972)	3:C:276:LEU:HD12	3:C:282:GLN:HA	3	0.2
(1,3972)	3:C:276:LEU:HD13	3:C:282:GLN:HA	3	0.2
(1,3972)	3:C:276:LEU:HD21	3:C:282:GLN:HA	3	0.2
(1,3972)	3:C:276:LEU:HD22	3:C:282:GLN:HA	3	0.2
(1,3972)	3:C:276:LEU:HD23	3:C:282:GLN:HA	3	0.2
(1,3971)	3:C:276:LEU:HD11	3:C:279:ASP:HA	4	0.2
(1,3971)	3:C:276:LEU:HD12	3:C:279:ASP:HA	4	0.2
(1,3971)	3:C:276:LEU:HD13	3:C:279:ASP:HA	4	0.2
(1,3971)	3:C:276:LEU:HD21	3:C:279:ASP:HA	4	0.2
(1,3971)	3:C:276:LEU:HD22	3:C:279:ASP:HA	4	0.2
(1,3971)	3:C:276:LEU:HD23	3:C:279:ASP:HA	4	0.2
(1,3756)	3:C:266:TRP:HE1	3:C:303:ASN:HB2	3	0.2
(1,3756)	3:C:266:TRP:HE1	3:C:303:ASN:HB3	3	0.2
(1,3704)	3:C:265:GLN:HA	3:C:266:TRP:HE3	5	0.2
(1,3574)	3:C:262:PHE:HA	3:C:308:PHE:HE1	2	0.2
(1,3574)	3:C:262:PHE:HA	3:C:308:PHE:HE2	2	0.2
(1,2524)	3:C:196:THR:HB	3:C:198:ARG:HB2	10	0.2
(1,2524)	3:C:196:THR:HB	3:C:198:ARG:HB3	10	0.2
(1,2430)	3:C:189:LYS:HG2	3:C:204:PHE:HA	7	0.2
(1,2430)	3:C:189:LYS:HG3	3:C:204:PHE:HA	7	0.2
(1,1645)	3:C:160:LYS:HG2	3:C:162:PHE:HD1	7	0.2
(1,1645)	3:C:160:LYS:HG2	3:C:162:PHE:HD2	7	0.2
(1,1645)	3:C:160:LYS:HG3	3:C:162:PHE:HD1	7	0.2
(1,1645)	3:C:160:LYS:HG3	3:C:162:PHE:HD2	7	0.2
(1,1583)	2:B:58:MET:HG2	1:A:11:A:H1'	8	0.2
(1,1583)	2:B:58:MET:HG3	1:A:11:A:H1'	8	0.2
(1,1281)	2:B:49:VAL:H	2:B:49:VAL:HG11	10	0.2
(1,1281)	2:B:49:VAL:H	2:B:49:VAL:HG12	10	0.2
(1,1281)	2:B:49:VAL:H	2:B:49:VAL:HG13	10	0.2
(1,1281)	2:B:49:VAL:H	2:B:49:VAL:HG21	10	0.2
(1,1281)	2:B:49:VAL:H	2:B:49:VAL:HG22	10	0.2
(1,1281)	2:B:49:VAL:H	2:B:49:VAL:HG23	10	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1209)	2:B:42:ILE:H	2:B:55:LEU:HD11	2	0.2
(1,1209)	2:B:42:ILE:H	2:B:55:LEU:HD12	2	0.2
(1,1209)	2:B:42:ILE:H	2:B:55:LEU:HD13	2	0.2
(1,1209)	2:B:42:ILE:H	2:B:55:LEU:HD21	2	0.2
(1,1209)	2:B:42:ILE:H	2:B:55:LEU:HD22	2	0.2
(1,1209)	2:B:42:ILE:H	2:B:55:LEU:HD23	2	0.2
(3,106)	2:B:68:GLY:H	1:A:5:U:H2'	2	0.19
(1,986)	2:B:98:LYS:HA	2:B:98:LYS:HD2	9	0.19
(1,986)	2:B:98:LYS:HA	2:B:98:LYS:HD3	9	0.19
(1,846)	2:B:95:ARG:H	2:B:96:PHE:H	4	0.19
(1,793)	2:B:87:LEU:H	2:B:87:LEU:HG	4	0.19
(1,734)	2:B:76:ASP:H	2:B:76:ASP:HB3	8	0.19
(1,53)	2:B:72:ILE:HB	2:B:73:GLU:H	9	0.19
(1,467)	2:B:75:ARG:H	2:B:75:ARG:HD2	8	0.19
(1,467)	2:B:75:ARG:H	2:B:75:ARG:HD3	8	0.19
(1,4627)	3:C:204:PHE:HZ	1:A:6:A:H2	7	0.19
(1,4607)	3:C:168:TRP:HZ3	1:A:4:A:H1'	3	0.19
(1,447)	2:B:39:GLU:H	2:B:39:GLU:HG2	3	0.19
(1,3704)	3:C:265:GLN:HA	3:C:266:TRP:HE3	2	0.19
(1,3468)	3:C:258:GLU:HA	3:C:261:GLU:HG2	7	0.19
(1,3468)	3:C:258:GLU:HA	3:C:261:GLU:HG3	7	0.19
(1,314)	2:B:90:TYR:H	2:B:90:TYR:HB3	5	0.19
(1,198)	2:B:90:TYR:HB3	2:B:97:LEU:H	5	0.19
(1,1469)	2:B:88:ASN:HA	2:B:97:LEU:HD11	6	0.19
(1,1469)	2:B:88:ASN:HA	2:B:97:LEU:HD12	6	0.19
(1,1469)	2:B:88:ASN:HA	2:B:97:LEU:HD13	6	0.19
(1,1469)	2:B:88:ASN:HA	2:B:97:LEU:HD21	6	0.19
(1,1469)	2:B:88:ASN:HA	2:B:97:LEU:HD22	6	0.19
(1,1469)	2:B:88:ASN:HA	2:B:97:LEU:HD23	6	0.19
(1,1347)	2:B:55:LEU:HD11	2:B:72:ILE:H	6	0.19
(1,1347)	2:B:55:LEU:HD12	2:B:72:ILE:H	6	0.19
(1,1347)	2:B:55:LEU:HD13	2:B:72:ILE:H	6	0.19
(1,1347)	2:B:55:LEU:HD21	2:B:72:ILE:H	6	0.19
(1,1347)	2:B:55:LEU:HD22	2:B:72:ILE:H	6	0.19
(1,1347)	2:B:55:LEU:HD23	2:B:72:ILE:H	6	0.19
(1,1257)	2:B:46:CYS:HA	2:B:92:LEU:HD11	5	0.19
(1,1257)	2:B:46:CYS:HA	2:B:92:LEU:HD12	5	0.19
(1,1257)	2:B:46:CYS:HA	2:B:92:LEU:HD13	5	0.19
(1,1257)	2:B:46:CYS:HA	2:B:92:LEU:HD21	5	0.19
(1,1257)	2:B:46:CYS:HA	2:B:92:LEU:HD22	5	0.19
(1,1257)	2:B:46:CYS:HA	2:B:92:LEU:HD23	5	0.19
(1,1165)	2:B:34:PRO:HB2	2:B:35:TYR:HD1	7	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1165)	2:B:34:PRO:HB2	2:B:35:TYR:HD2	7	0.19
(1,1165)	2:B:34:PRO:HB3	2:B:35:TYR:HD1	7	0.19
(1,1165)	2:B:34:PRO:HB3	2:B:35:TYR:HD2	7	0.19
(1,986)	2:B:98:LYS:HA	2:B:98:LYS:HD2	3	0.18
(1,986)	2:B:98:LYS:HA	2:B:98:LYS:HD3	3	0.18
(1,854)	2:B:96:PHE:HD1	2:B:97:LEU:H	2	0.18
(1,854)	2:B:96:PHE:HD2	2:B:97:LEU:H	2	0.18
(1,846)	2:B:95:ARG:H	2:B:96:PHE:H	2	0.18
(1,846)	2:B:95:ARG:H	2:B:96:PHE:H	3	0.18
(1,823)	2:B:91:GLN:H	2:B:96:PHE:HE1	10	0.18
(1,823)	2:B:91:GLN:H	2:B:96:PHE:HE2	10	0.18
(1,799)	2:B:88:ASN:H	2:B:88:ASN:HD22	4	0.18
(1,53)	2:B:72:ILE:HB	2:B:73:GLU:H	3	0.18
(1,5)	2:B:80:SER:H	2:B:81:ALA:HB1	5	0.18
(1,5)	2:B:80:SER:H	2:B:81:ALA:HB2	5	0.18
(1,5)	2:B:80:SER:H	2:B:81:ALA:HB3	5	0.18
(1,4617)	3:C:202:PHE:HE1	1:A:7:U:H2'	10	0.18
(1,4617)	3:C:202:PHE:HE2	1:A:7:U:H2'	10	0.18
(1,4609)	3:C:189:LYS:HB2	1:A:7:U:H5	6	0.18
(1,4609)	3:C:189:LYS:HB3	1:A:7:U:H5	6	0.18
(1,447)	2:B:39:GLU:H	2:B:39:GLU:HG2	6	0.18
(1,4433)	3:C:309:LYS:HA	3:C:309:LYS:HG2	6	0.18
(1,4433)	3:C:309:LYS:HA	3:C:309:LYS:HG3	6	0.18
(1,3829)	3:C:269:ILE:HA	3:C:291:TYR:HD1	6	0.18
(1,3829)	3:C:269:ILE:HA	3:C:291:TYR:HD2	6	0.18
(1,3798)	3:C:267:GLY:H	3:C:291:TYR:HD1	6	0.18
(1,3798)	3:C:267:GLY:H	3:C:291:TYR:HD2	6	0.18
(1,3798)	3:C:267:GLY:H	3:C:291:TYR:HD1	7	0.18
(1,3798)	3:C:267:GLY:H	3:C:291:TYR:HD2	7	0.18
(1,374)	2:B:86:ASN:HB2	2:B:86:ASN:HD22	2	0.18
(1,3619)	3:C:262:PHE:HZ	3:C:266:TRP:HH2	1	0.18
(1,3574)	3:C:262:PHE:HA	3:C:308:PHE:HE1	1	0.18
(1,3574)	3:C:262:PHE:HA	3:C:308:PHE:HE2	1	0.18
(1,3574)	3:C:262:PHE:HA	3:C:308:PHE:HE1	9	0.18
(1,3574)	3:C:262:PHE:HA	3:C:308:PHE:HE2	9	0.18
(1,2391)	3:C:187:ASP:HB2	3:C:206:SER:HA	6	0.18
(1,2391)	3:C:187:ASP:HB3	3:C:206:SER:HA	6	0.18
(1,2160)	3:C:178:TYR:HE1	3:C:205:LEU:HD11	3	0.18
(1,2160)	3:C:178:TYR:HE1	3:C:205:LEU:HD12	3	0.18
(1,2160)	3:C:178:TYR:HE1	3:C:205:LEU:HD13	3	0.18
(1,2160)	3:C:178:TYR:HE1	3:C:205:LEU:HD21	3	0.18
(1,2160)	3:C:178:TYR:HE1	3:C:205:LEU:HD22	3	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2160)	3:C:178:TYR:HE1	3:C:205:LEU:HD23	3	0.18
(1,2160)	3:C:178:TYR:HE2	3:C:205:LEU:HD11	3	0.18
(1,2160)	3:C:178:TYR:HE2	3:C:205:LEU:HD12	3	0.18
(1,2160)	3:C:178:TYR:HE2	3:C:205:LEU:HD13	3	0.18
(1,2160)	3:C:178:TYR:HE2	3:C:205:LEU:HD21	3	0.18
(1,2160)	3:C:178:TYR:HE2	3:C:205:LEU:HD22	3	0.18
(1,2160)	3:C:178:TYR:HE2	3:C:205:LEU:HD23	3	0.18
(1,2081)	3:C:176:ARG:HA	3:C:176:ARG:HD2	3	0.18
(1,2081)	3:C:176:ARG:HA	3:C:176:ARG:HD3	3	0.18
(1,1593)	2:B:69:TYR:HB3	1:A:10:U:H6	9	0.18
(1,1585)	2:B:58:MET:HG2	1:A:11:A:H2	7	0.18
(1,1585)	2:B:58:MET:HG3	1:A:11:A:H2	7	0.18
(1,1569)	1:A:9:A:H2	2:B:71:PHE:HB2	6	0.18
(1,144)	2:B:49:VAL:H	2:B:49:VAL:HG21	1	0.18
(1,144)	2:B:49:VAL:H	2:B:49:VAL:HG22	1	0.18
(1,144)	2:B:49:VAL:H	2:B:49:VAL:HG23	1	0.18
(1,1428)	2:B:82:SER:H	2:B:84:VAL:HG11	4	0.18
(1,1428)	2:B:82:SER:H	2:B:84:VAL:HG12	4	0.18
(1,1428)	2:B:82:SER:H	2:B:84:VAL:HG13	4	0.18
(1,1428)	2:B:82:SER:H	2:B:84:VAL:HG21	4	0.18
(1,1428)	2:B:82:SER:H	2:B:84:VAL:HG22	4	0.18
(1,1428)	2:B:82:SER:H	2:B:84:VAL:HG23	4	0.18
(1,1347)	2:B:55:LEU:HD11	2:B:72:ILE:H	5	0.18
(1,1347)	2:B:55:LEU:HD12	2:B:72:ILE:H	5	0.18
(1,1347)	2:B:55:LEU:HD13	2:B:72:ILE:H	5	0.18
(1,1347)	2:B:55:LEU:HD21	2:B:72:ILE:H	5	0.18
(1,1347)	2:B:55:LEU:HD22	2:B:72:ILE:H	5	0.18
(1,1347)	2:B:55:LEU:HD23	2:B:72:ILE:H	5	0.18
(1,1347)	2:B:55:LEU:HD11	2:B:72:ILE:H	9	0.18
(1,1347)	2:B:55:LEU:HD12	2:B:72:ILE:H	9	0.18
(1,1347)	2:B:55:LEU:HD13	2:B:72:ILE:H	9	0.18
(1,1347)	2:B:55:LEU:HD21	2:B:72:ILE:H	9	0.18
(1,1347)	2:B:55:LEU:HD22	2:B:72:ILE:H	9	0.18
(1,1347)	2:B:55:LEU:HD23	2:B:72:ILE:H	9	0.18
(1,1209)	2:B:42:ILE:H	2:B:55:LEU:HD11	5	0.18
(1,1209)	2:B:42:ILE:H	2:B:55:LEU:HD12	5	0.18
(1,1209)	2:B:42:ILE:H	2:B:55:LEU:HD13	5	0.18
(1,1209)	2:B:42:ILE:H	2:B:55:LEU:HD21	5	0.18
(1,1209)	2:B:42:ILE:H	2:B:55:LEU:HD22	5	0.18
(1,1209)	2:B:42:ILE:H	2:B:55:LEU:HD23	5	0.18
(1,1170)	2:B:35:TYR:HB2	2:B:59:PHE:HE1	4	0.18
(1,1170)	2:B:35:TYR:HB2	2:B:59:PHE:HE2	4	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1170)	2:B:35:TYR:HB3	2:B:59:PHE:HE1	4	0.18
(1,1170)	2:B:35:TYR:HB3	2:B:59:PHE:HE2	4	0.18
(1,1097)	2:B:27:VAL:HG11	2:B:71:PHE:HD1	8	0.18
(1,1097)	2:B:27:VAL:HG11	2:B:71:PHE:HD2	8	0.18
(1,1097)	2:B:27:VAL:HG12	2:B:71:PHE:HD1	8	0.18
(1,1097)	2:B:27:VAL:HG12	2:B:71:PHE:HD2	8	0.18
(1,1097)	2:B:27:VAL:HG13	2:B:71:PHE:HD1	8	0.18
(1,1097)	2:B:27:VAL:HG13	2:B:71:PHE:HD2	8	0.18
(1,1097)	2:B:27:VAL:HG21	2:B:71:PHE:HD1	8	0.18
(1,1097)	2:B:27:VAL:HG21	2:B:71:PHE:HD2	8	0.18
(1,1097)	2:B:27:VAL:HG22	2:B:71:PHE:HD1	8	0.18
(1,1097)	2:B:27:VAL:HG22	2:B:71:PHE:HD2	8	0.18
(1,1097)	2:B:27:VAL:HG23	2:B:71:PHE:HD1	8	0.18
(1,1097)	2:B:27:VAL:HG23	2:B:71:PHE:HD2	8	0.18
(3,136)	2:B:97:LEU:H	1:A:5:U:H2'	10	0.17
(1,964)	2:B:81:ALA:HA	2:B:84:VAL:HG21	9	0.17
(1,964)	2:B:81:ALA:HA	2:B:84:VAL:HG22	9	0.17
(1,964)	2:B:81:ALA:HA	2:B:84:VAL:HG23	9	0.17
(1,734)	2:B:76:ASP:H	2:B:76:ASP:HB3	4	0.17
(1,734)	2:B:76:ASP:H	2:B:76:ASP:HB3	6	0.17
(1,734)	2:B:76:ASP:H	2:B:76:ASP:HB3	10	0.17
(1,707)	2:B:59:PHE:HA	2:B:67:LYS:H	5	0.17
(1,67)	2:B:35:TYR:HE1	2:B:68:GLY:HA3	4	0.17
(1,67)	2:B:35:TYR:HE2	2:B:68:GLY:HA3	4	0.17
(1,538)	2:B:77:LEU:HA	2:B:79:SER:H	5	0.17
(1,5)	2:B:80:SER:H	2:B:81:ALA:HB1	7	0.17
(1,5)	2:B:80:SER:H	2:B:81:ALA:HB2	7	0.17
(1,5)	2:B:80:SER:H	2:B:81:ALA:HB3	7	0.17
(1,4619)	3:C:204:PHE:HD1	1:A:6:A:H2	8	0.17
(1,4619)	3:C:204:PHE:HD2	1:A:6:A:H2	8	0.17
(1,4606)	3:C:168:TRP:HZ2	1:A:4:A:H2	3	0.17
(1,4412)	3:C:308:PHE:HE1	3:C:309:LYS:HD2	10	0.17
(1,4412)	3:C:308:PHE:HE1	3:C:309:LYS:HD3	10	0.17
(1,4412)	3:C:308:PHE:HE2	3:C:309:LYS:HD2	10	0.17
(1,4412)	3:C:308:PHE:HE2	3:C:309:LYS:HD3	10	0.17
(1,4250)	3:C:302:GLN:HA	3:C:302:GLN:HG2	9	0.17
(1,4250)	3:C:302:GLN:HA	3:C:302:GLN:HG3	9	0.17
(1,4021)	3:C:282:GLN:HA	3:C:286:PHE:HD1	4	0.17
(1,4021)	3:C:282:GLN:HA	3:C:286:PHE:HD2	4	0.17
(1,3986)	3:C:277:ASP:H	3:C:280:THR:H	6	0.17
(1,3968)	3:C:276:LEU:HB2	3:C:282:GLN:H	4	0.17
(1,3968)	3:C:276:LEU:HB3	3:C:282:GLN:H	4	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3940)	3:C:275:MET:HA	3:C:276:LEU:HD11	4	0.17
(1,3940)	3:C:275:MET:HA	3:C:276:LEU:HD12	4	0.17
(1,3940)	3:C:275:MET:HA	3:C:276:LEU:HD13	4	0.17
(1,3940)	3:C:275:MET:HA	3:C:276:LEU:HD21	4	0.17
(1,3940)	3:C:275:MET:HA	3:C:276:LEU:HD22	4	0.17
(1,3940)	3:C:275:MET:HA	3:C:276:LEU:HD23	4	0.17
(1,3589)	3:C:262:PHE:HD1	3:C:266:TRP:HE3	8	0.17
(1,3589)	3:C:262:PHE:HD2	3:C:266:TRP:HE3	8	0.17
(1,3369)	3:C:250:ILE:HG21	3:C:308:PHE:HE1	7	0.17
(1,3369)	3:C:250:ILE:HG21	3:C:308:PHE:HE2	7	0.17
(1,3369)	3:C:250:ILE:HG22	3:C:308:PHE:HE1	7	0.17
(1,3369)	3:C:250:ILE:HG22	3:C:308:PHE:HE2	7	0.17
(1,3369)	3:C:250:ILE:HG23	3:C:308:PHE:HE1	7	0.17
(1,3369)	3:C:250:ILE:HG23	3:C:308:PHE:HE2	7	0.17
(1,3267)	3:C:246:PHE:HD1	3:C:288:PHE:HB2	4	0.17
(1,3267)	3:C:246:PHE:HD1	3:C:288:PHE:HB3	4	0.17
(1,3267)	3:C:246:PHE:HD2	3:C:288:PHE:HB2	4	0.17
(1,3267)	3:C:246:PHE:HD2	3:C:288:PHE:HB3	4	0.17
(1,314)	2:B:90:TYR:H	2:B:90:TYR:HB3	2	0.17
(1,312)	2:B:90:TYR:H	2:B:91:GLN:H	5	0.17
(1,3037)	3:C:234:ILE:HD11	3:C:242:THR:HG21	8	0.17
(1,3037)	3:C:234:ILE:HD11	3:C:242:THR:HG22	8	0.17
(1,3037)	3:C:234:ILE:HD11	3:C:242:THR:HG23	8	0.17
(1,3037)	3:C:234:ILE:HD12	3:C:242:THR:HG21	8	0.17
(1,3037)	3:C:234:ILE:HD12	3:C:242:THR:HG22	8	0.17
(1,3037)	3:C:234:ILE:HD12	3:C:242:THR:HG23	8	0.17
(1,3037)	3:C:234:ILE:HD13	3:C:242:THR:HG21	8	0.17
(1,3037)	3:C:234:ILE:HD13	3:C:242:THR:HG22	8	0.17
(1,3037)	3:C:234:ILE:HD13	3:C:242:THR:HG23	8	0.17
(1,3005)	3:C:232:ARG:HA	3:C:232:ARG:HG2	4	0.17
(1,3005)	3:C:232:ARG:HA	3:C:232:ARG:HG3	4	0.17
(1,2669)	3:C:208:GLU:HA	3:C:208:GLU:HG2	10	0.17
(1,2669)	3:C:208:GLU:HA	3:C:208:GLU:HG3	10	0.17
(1,2546)	3:C:198:ARG:HG2	3:C:199:SER:H	2	0.17
(1,2546)	3:C:198:ARG:HG3	3:C:199:SER:H	2	0.17
(1,2182)	3:C:179:PHE:HA	3:C:182:TYR:HE1	6	0.17
(1,2182)	3:C:179:PHE:HA	3:C:182:TYR:HE2	6	0.17
(1,1992)	3:C:172:GLU:HA	3:C:190:ILE:HG12	7	0.17
(1,1992)	3:C:172:GLU:HA	3:C:190:ILE:HG13	7	0.17
(1,1624)	3:C:159:CYS:H	3:C:160:LYS:H	9	0.17
(1,1522)	1:A:10:U:H2'	1:A:11:A:H8	2	0.17
(1,144)	2:B:49:VAL:H	2:B:49:VAL:HG21	3	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,144)	2:B:49:VAL:H	2:B:49:VAL:HG22	3	0.17
(1,144)	2:B:49:VAL:H	2:B:49:VAL:HG23	3	0.17
(1,144)	2:B:49:VAL:H	2:B:49:VAL:HG21	6	0.17
(1,144)	2:B:49:VAL:H	2:B:49:VAL:HG22	6	0.17
(1,144)	2:B:49:VAL:H	2:B:49:VAL:HG23	6	0.17
(1,1347)	2:B:55:LEU:HD11	2:B:72:ILE:H	10	0.17
(1,1347)	2:B:55:LEU:HD12	2:B:72:ILE:H	10	0.17
(1,1347)	2:B:55:LEU:HD13	2:B:72:ILE:H	10	0.17
(1,1347)	2:B:55:LEU:HD21	2:B:72:ILE:H	10	0.17
(1,1347)	2:B:55:LEU:HD22	2:B:72:ILE:H	10	0.17
(1,1347)	2:B:55:LEU:HD23	2:B:72:ILE:H	10	0.17
(1,1342)	2:B:55:LEU:HD11	2:B:57:MET:H	2	0.17
(1,1342)	2:B:55:LEU:HD12	2:B:57:MET:H	2	0.17
(1,1342)	2:B:55:LEU:HD13	2:B:57:MET:H	2	0.17
(1,1342)	2:B:55:LEU:HD21	2:B:57:MET:H	2	0.17
(1,1342)	2:B:55:LEU:HD22	2:B:57:MET:H	2	0.17
(1,1342)	2:B:55:LEU:HD23	2:B:57:MET:H	2	0.17
(1,1246)	2:B:45:LEU:HD11	2:B:90:TYR:HD1	8	0.17
(1,1246)	2:B:45:LEU:HD11	2:B:90:TYR:HD2	8	0.17
(1,1246)	2:B:45:LEU:HD12	2:B:90:TYR:HD1	8	0.17
(1,1246)	2:B:45:LEU:HD12	2:B:90:TYR:HD2	8	0.17
(1,1246)	2:B:45:LEU:HD13	2:B:90:TYR:HD1	8	0.17
(1,1246)	2:B:45:LEU:HD13	2:B:90:TYR:HD2	8	0.17
(1,1246)	2:B:45:LEU:HD21	2:B:90:TYR:HD1	8	0.17
(1,1246)	2:B:45:LEU:HD21	2:B:90:TYR:HD2	8	0.17
(1,1246)	2:B:45:LEU:HD22	2:B:90:TYR:HD1	8	0.17
(1,1246)	2:B:45:LEU:HD22	2:B:90:TYR:HD2	8	0.17
(1,1246)	2:B:45:LEU:HD23	2:B:90:TYR:HD1	8	0.17
(1,1246)	2:B:45:LEU:HD23	2:B:90:TYR:HD2	8	0.17
(1,1091)	2:B:27:VAL:H	2:B:100:GLY:HA2	10	0.17
(1,1091)	2:B:27:VAL:H	2:B:100:GLY:HA3	10	0.17
(1,1011)	2:B:88:ASN:HA	2:B:97:LEU:HB2	9	0.17
(1,1011)	2:B:88:ASN:HA	2:B:97:LEU:HB3	9	0.17
(1,942)	2:B:52:VAL:HB	2:B:74:PHE:HD1	6	0.16
(1,942)	2:B:52:VAL:HB	2:B:74:PHE:HD2	6	0.16
(1,805)	2:B:88:ASN:H	2:B:97:LEU:HD21	4	0.16
(1,805)	2:B:88:ASN:H	2:B:97:LEU:HD22	4	0.16
(1,805)	2:B:88:ASN:H	2:B:97:LEU:HD23	4	0.16
(1,734)	2:B:76:ASP:H	2:B:76:ASP:HB3	1	0.16
(1,53)	2:B:72:ILE:HB	2:B:73:GLU:H	1	0.16
(1,53)	2:B:72:ILE:HB	2:B:73:GLU:H	6	0.16
(1,53)	2:B:72:ILE:HB	2:B:73:GLU:H	8	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,513)	2:B:40:GLU:HG2	2:B:44:ASP:H	3	0.16
(1,513)	2:B:40:GLU:HG3	2:B:44:ASP:H	3	0.16
(1,5)	2:B:80:SER:H	2:B:81:ALA:HB1	2	0.16
(1,5)	2:B:80:SER:H	2:B:81:ALA:HB2	2	0.16
(1,5)	2:B:80:SER:H	2:B:81:ALA:HB3	2	0.16
(1,474)	2:B:41:GLN:H	2:B:43:LEU:H	6	0.16
(1,467)	2:B:75:ARG:H	2:B:75:ARG:HD2	7	0.16
(1,467)	2:B:75:ARG:H	2:B:75:ARG:HD3	7	0.16
(1,4606)	3:C:168:TRP:HZ2	1:A:4:A:H2	7	0.16
(1,4432)	3:C:309:LYS:HA	3:C:309:LYS:HE2	6	0.16
(1,4432)	3:C:309:LYS:HA	3:C:309:LYS:HE3	6	0.16
(1,436)	2:B:37:GLN:HE21	2:B:38:THR:H	8	0.16
(1,4250)	3:C:302:GLN:HA	3:C:302:GLN:HG2	7	0.16
(1,4250)	3:C:302:GLN:HA	3:C:302:GLN:HG3	7	0.16
(1,4250)	3:C:302:GLN:HA	3:C:302:GLN:HG2	8	0.16
(1,4250)	3:C:302:GLN:HA	3:C:302:GLN:HG3	8	0.16
(1,4220)	3:C:300:VAL:HA	3:C:304:LYS:H	3	0.16
(1,4021)	3:C:282:GLN:HA	3:C:286:PHE:HD1	10	0.16
(1,4021)	3:C:282:GLN:HA	3:C:286:PHE:HD2	10	0.16
(1,3986)	3:C:277:ASP:H	3:C:280:THR:H	3	0.16
(1,3853)	3:C:269:ILE:HG21	3:C:291:TYR:HD1	1	0.16
(1,3853)	3:C:269:ILE:HG21	3:C:291:TYR:HD2	1	0.16
(1,3853)	3:C:269:ILE:HG22	3:C:291:TYR:HD1	1	0.16
(1,3853)	3:C:269:ILE:HG22	3:C:291:TYR:HD2	1	0.16
(1,3853)	3:C:269:ILE:HG23	3:C:291:TYR:HD1	1	0.16
(1,3853)	3:C:269:ILE:HG23	3:C:291:TYR:HD2	1	0.16
(1,379)	2:B:77:LEU:HB2	2:B:81:ALA:H	5	0.16
(1,3754)	3:C:266:TRP:HE1	3:C:300:VAL:HG11	6	0.16
(1,3754)	3:C:266:TRP:HE1	3:C:300:VAL:HG12	6	0.16
(1,3754)	3:C:266:TRP:HE1	3:C:300:VAL:HG13	6	0.16
(1,3754)	3:C:266:TRP:HE1	3:C:300:VAL:HG21	6	0.16
(1,3754)	3:C:266:TRP:HE1	3:C:300:VAL:HG22	6	0.16
(1,3754)	3:C:266:TRP:HE1	3:C:300:VAL:HG23	6	0.16
(1,3704)	3:C:265:GLN:HA	3:C:266:TRP:HE3	3	0.16
(1,3574)	3:C:262:PHE:HA	3:C:308:PHE:HE1	10	0.16
(1,3574)	3:C:262:PHE:HA	3:C:308:PHE:HE2	10	0.16
(1,3232)	3:C:245:ILE:HG12	3:C:315:ILE:H	10	0.16
(1,3232)	3:C:245:ILE:HG13	3:C:315:ILE:H	10	0.16
(1,2955)	3:C:227:VAL:HG11	3:C:278:LYS:HA	5	0.16
(1,2955)	3:C:227:VAL:HG12	3:C:278:LYS:HA	5	0.16
(1,2955)	3:C:227:VAL:HG13	3:C:278:LYS:HA	5	0.16
(1,2955)	3:C:227:VAL:HG21	3:C:278:LYS:HA	5	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2955)	3:C:227:VAL:HG22	3:C:278:LYS:HA	5	0.16
(1,2955)	3:C:227:VAL:HG23	3:C:278:LYS:HA	5	0.16
(1,2799)	3:C:217:VAL:HA	3:C:221:HIS:HE1	8	0.16
(1,2679)	3:C:208:GLU:H	3:C:209:LYS:H	10	0.16
(1,258)	2:B:37:GLN:HB3	2:B:42:ILE:HD11	8	0.16
(1,258)	2:B:37:GLN:HB3	2:B:42:ILE:HD12	8	0.16
(1,258)	2:B:37:GLN:HB3	2:B:42:ILE:HD13	8	0.16
(1,2414)	3:C:188:LEU:HD11	3:C:205:LEU:HB2	3	0.16
(1,2414)	3:C:188:LEU:HD11	3:C:205:LEU:HB3	3	0.16
(1,2414)	3:C:188:LEU:HD12	3:C:205:LEU:HB2	3	0.16
(1,2414)	3:C:188:LEU:HD12	3:C:205:LEU:HB3	3	0.16
(1,2414)	3:C:188:LEU:HD13	3:C:205:LEU:HB2	3	0.16
(1,2414)	3:C:188:LEU:HD13	3:C:205:LEU:HB3	3	0.16
(1,2414)	3:C:188:LEU:HD21	3:C:205:LEU:HB2	3	0.16
(1,2414)	3:C:188:LEU:HD21	3:C:205:LEU:HB3	3	0.16
(1,2414)	3:C:188:LEU:HD22	3:C:205:LEU:HB2	3	0.16
(1,2414)	3:C:188:LEU:HD22	3:C:205:LEU:HB3	3	0.16
(1,2414)	3:C:188:LEU:HD23	3:C:205:LEU:HB2	3	0.16
(1,2414)	3:C:188:LEU:HD23	3:C:205:LEU:HB3	3	0.16
(1,2274)	3:C:182:TYR:HD1	3:C:212:SER:HA	1	0.16
(1,2274)	3:C:182:TYR:HD2	3:C:212:SER:HA	1	0.16
(1,2081)	3:C:176:ARG:HA	3:C:176:ARG:HD2	7	0.16
(1,2081)	3:C:176:ARG:HA	3:C:176:ARG:HD3	7	0.16
(1,1987)	3:C:172:GLU:HA	3:C:175:LEU:HG	9	0.16
(1,192)	2:B:77:LEU:HD11	2:B:81:ALA:HB1	3	0.16
(1,192)	2:B:77:LEU:HD11	2:B:81:ALA:HB2	3	0.16
(1,192)	2:B:77:LEU:HD11	2:B:81:ALA:HB3	3	0.16
(1,192)	2:B:77:LEU:HD12	2:B:81:ALA:HB1	3	0.16
(1,192)	2:B:77:LEU:HD12	2:B:81:ALA:HB2	3	0.16
(1,192)	2:B:77:LEU:HD12	2:B:81:ALA:HB3	3	0.16
(1,192)	2:B:77:LEU:HD13	2:B:81:ALA:HB1	3	0.16
(1,192)	2:B:77:LEU:HD13	2:B:81:ALA:HB2	3	0.16
(1,192)	2:B:77:LEU:HD13	2:B:81:ALA:HB3	3	0.16
(1,192)	2:B:77:LEU:HD11	2:B:81:ALA:HB1	8	0.16
(1,192)	2:B:77:LEU:HD11	2:B:81:ALA:HB2	8	0.16
(1,192)	2:B:77:LEU:HD11	2:B:81:ALA:HB3	8	0.16
(1,192)	2:B:77:LEU:HD12	2:B:81:ALA:HB1	8	0.16
(1,192)	2:B:77:LEU:HD12	2:B:81:ALA:HB2	8	0.16
(1,192)	2:B:77:LEU:HD12	2:B:81:ALA:HB3	8	0.16
(1,192)	2:B:77:LEU:HD13	2:B:81:ALA:HB1	8	0.16
(1,192)	2:B:77:LEU:HD13	2:B:81:ALA:HB2	8	0.16
(1,192)	2:B:77:LEU:HD13	2:B:81:ALA:HB3	8	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1909)	3:C:168:TRP:HD1	3:C:199:SER:HB2	6	0.16
(1,1909)	3:C:168:TRP:HD1	3:C:199:SER:HB3	6	0.16
(1,1845)	3:C:166:LEU:HB2	3:C:201:GLY:H	4	0.16
(1,1845)	3:C:166:LEU:HB3	3:C:201:GLY:H	4	0.16
(1,1592)	2:B:69:TYR:HB2	1:A:10:U:H5	3	0.16
(1,1556)	1:A:9:A:H1'	2:B:71:PHE:HE1	5	0.16
(1,1556)	1:A:9:A:H1'	2:B:71:PHE:HE2	5	0.16
(1,1421)	2:B:79:SER:H	2:B:82:SER:HB2	2	0.16
(1,1421)	2:B:79:SER:H	2:B:82:SER:HB3	2	0.16
(1,1369)	2:B:58:MET:HB2	2:B:69:TYR:HD1	7	0.16
(1,1369)	2:B:58:MET:HB2	2:B:69:TYR:HD2	7	0.16
(1,1369)	2:B:58:MET:HB3	2:B:69:TYR:HD1	7	0.16
(1,1369)	2:B:58:MET:HB3	2:B:69:TYR:HD2	7	0.16
(1,1363)	2:B:57:MET:HG2	2:B:59:PHE:HD1	7	0.16
(1,1363)	2:B:57:MET:HG2	2:B:59:PHE:HD2	7	0.16
(1,1363)	2:B:57:MET:HG3	2:B:59:PHE:HD1	7	0.16
(1,1363)	2:B:57:MET:HG3	2:B:59:PHE:HD2	7	0.16
(1,1342)	2:B:55:LEU:HD11	2:B:57:MET:H	3	0.16
(1,1342)	2:B:55:LEU:HD12	2:B:57:MET:H	3	0.16
(1,1342)	2:B:55:LEU:HD13	2:B:57:MET:H	3	0.16
(1,1342)	2:B:55:LEU:HD21	2:B:57:MET:H	3	0.16
(1,1342)	2:B:55:LEU:HD22	2:B:57:MET:H	3	0.16
(1,1342)	2:B:55:LEU:HD23	2:B:57:MET:H	3	0.16
(1,1278)	2:B:48:ASN:HB2	2:B:50:GLY:H	5	0.16
(1,1278)	2:B:48:ASN:HB3	2:B:50:GLY:H	5	0.16
(1,1165)	2:B:34:PRO:HB2	2:B:35:TYR:HD1	9	0.16
(1,1165)	2:B:34:PRO:HB2	2:B:35:TYR:HD2	9	0.16
(1,1165)	2:B:34:PRO:HB3	2:B:35:TYR:HD1	9	0.16
(1,1165)	2:B:34:PRO:HB3	2:B:35:TYR:HD2	9	0.16
(1,1159)	2:B:33:ILE:HG21	2:B:37:GLN:HE21	7	0.16
(1,1159)	2:B:33:ILE:HG21	2:B:37:GLN:HE22	7	0.16
(1,1159)	2:B:33:ILE:HG22	2:B:37:GLN:HE21	7	0.16
(1,1159)	2:B:33:ILE:HG22	2:B:37:GLN:HE22	7	0.16
(1,1159)	2:B:33:ILE:HG23	2:B:37:GLN:HE21	7	0.16
(1,1159)	2:B:33:ILE:HG23	2:B:37:GLN:HE22	7	0.16
(1,1102)	2:B:27:VAL:HG11	2:B:73:GLU:HB2	10	0.16
(1,1102)	2:B:27:VAL:HG12	2:B:73:GLU:HB2	10	0.16
(1,1102)	2:B:27:VAL:HG13	2:B:73:GLU:HB2	10	0.16
(1,1102)	2:B:27:VAL:HG21	2:B:73:GLU:HB2	10	0.16
(1,1102)	2:B:27:VAL:HG22	2:B:73:GLU:HB2	10	0.16
(1,1102)	2:B:27:VAL:HG23	2:B:73:GLU:HB2	10	0.16
(1,1043)	2:B:59:PHE:HE1	2:B:61:PRO:HD3	5	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1043)	2:B:59:PHE:HE2	2:B:61:PRO:HD3	5	0.16
(1,104)	2:B:53:ILE:HG12	2:B:75:ARG:H	2	0.16
(2,23)	2:B:58:MET:O	2:B:69:TYR:H	7	0.15
(1,964)	2:B:81:ALA:HA	2:B:84:VAL:HG21	7	0.15
(1,964)	2:B:81:ALA:HA	2:B:84:VAL:HG22	7	0.15
(1,964)	2:B:81:ALA:HA	2:B:84:VAL:HG23	7	0.15
(1,912)	2:B:30:LEU:HA	2:B:69:TYR:HE1	10	0.15
(1,912)	2:B:30:LEU:HA	2:B:69:TYR:HE2	10	0.15
(1,854)	2:B:96:PHE:HD1	2:B:97:LEU:H	5	0.15
(1,854)	2:B:96:PHE:HD2	2:B:97:LEU:H	5	0.15
(1,831)	2:B:91:GLN:HG2	2:B:92:LEU:H	4	0.15
(1,831)	2:B:91:GLN:HG3	2:B:92:LEU:H	4	0.15
(1,808)	2:B:84:VAL:HG11	2:B:88:ASN:H	10	0.15
(1,808)	2:B:84:VAL:HG12	2:B:88:ASN:H	10	0.15
(1,808)	2:B:84:VAL:HG13	2:B:88:ASN:H	10	0.15
(1,805)	2:B:88:ASN:H	2:B:97:LEU:HD21	8	0.15
(1,805)	2:B:88:ASN:H	2:B:97:LEU:HD22	8	0.15
(1,805)	2:B:88:ASN:H	2:B:97:LEU:HD23	8	0.15
(1,800)	2:B:88:ASN:H	2:B:88:ASN:HD21	4	0.15
(1,734)	2:B:76:ASP:H	2:B:76:ASP:HB3	7	0.15
(1,664)	2:B:60:ASP:H	2:B:67:LYS:HA	7	0.15
(1,538)	2:B:77:LEU:HA	2:B:79:SER:H	7	0.15
(1,4649)	3:C:275:MET:HG2	1:A:3:U:H1'	9	0.15
(1,4649)	3:C:275:MET:HG3	1:A:3:U:H1'	9	0.15
(1,4646)	3:C:246:PHE:HE1	1:A:2:A:H8	10	0.15
(1,4646)	3:C:246:PHE:HE2	1:A:2:A:H8	10	0.15
(1,4628)	3:C:204:PHE:HZ	1:A:7:U:H6	7	0.15
(1,4627)	3:C:204:PHE:HZ	1:A:6:A:H2	2	0.15
(1,4603)	3:C:168:TRP:HH2	1:A:4:A:H2	6	0.15
(1,4574)	3:C:162:PHE:HB2	1:A:5:U:H6	8	0.15
(1,4574)	3:C:162:PHE:HB3	1:A:5:U:H6	8	0.15
(1,4574)	3:C:162:PHE:HB2	1:A:5:U:H6	9	0.15
(1,4574)	3:C:162:PHE:HB3	1:A:5:U:H6	9	0.15
(1,4435)	3:C:309:LYS:HA	3:C:310:ASP:HB2	8	0.15
(1,4435)	3:C:309:LYS:HA	3:C:310:ASP:HB3	8	0.15
(1,4432)	3:C:309:LYS:HA	3:C:309:LYS:HE2	2	0.15
(1,4432)	3:C:309:LYS:HA	3:C:309:LYS:HE3	2	0.15
(1,4432)	3:C:309:LYS:HA	3:C:309:LYS:HE2	9	0.15
(1,4432)	3:C:309:LYS:HA	3:C:309:LYS:HE3	9	0.15
(1,4140)	3:C:294:ALA:HA	3:C:297:VAL:HB	10	0.15
(1,4005)	3:C:279:ASP:H	3:C:280:THR:H	5	0.15
(1,3978)	3:C:276:LEU:H	3:C:281:GLY:HA2	1	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3978)	3:C:276:LEU:H	3:C:281:GLY:HA3	1	0.15
(1,3977)	3:C:276:LEU:H	3:C:276:LEU:HD11	7	0.15
(1,3977)	3:C:276:LEU:H	3:C:276:LEU:HD12	7	0.15
(1,3977)	3:C:276:LEU:H	3:C:276:LEU:HD13	7	0.15
(1,3977)	3:C:276:LEU:H	3:C:276:LEU:HD21	7	0.15
(1,3977)	3:C:276:LEU:H	3:C:276:LEU:HD22	7	0.15
(1,3977)	3:C:276:LEU:H	3:C:276:LEU:HD23	7	0.15
(1,3830)	3:C:269:ILE:HA	3:C:291:TYR:HE1	9	0.15
(1,3830)	3:C:269:ILE:HA	3:C:291:TYR:HE2	9	0.15
(1,379)	2:B:77:LEU:HB2	2:B:81:ALA:H	2	0.15
(1,3787)	3:C:266:TRP:HZ3	3:C:291:TYR:HE1	10	0.15
(1,3787)	3:C:266:TRP:HZ3	3:C:291:TYR:HE2	10	0.15
(1,3762)	3:C:266:TRP:HE3	3:C:269:ILE:HD11	10	0.15
(1,3762)	3:C:266:TRP:HE3	3:C:269:ILE:HD12	10	0.15
(1,3762)	3:C:266:TRP:HE3	3:C:269:ILE:HD13	10	0.15
(1,3737)	3:C:266:TRP:HD1	3:C:296:ALA:HA	9	0.15
(1,3673)	3:C:263:PHE:H	3:C:269:ILE:HD11	1	0.15
(1,3673)	3:C:263:PHE:H	3:C:269:ILE:HD12	1	0.15
(1,3673)	3:C:263:PHE:H	3:C:269:ILE:HD13	1	0.15
(1,3468)	3:C:258:GLU:HA	3:C:261:GLU:HG2	8	0.15
(1,3468)	3:C:258:GLU:HA	3:C:261:GLU:HG3	8	0.15
(1,3338)	3:C:249:GLY:HA2	3:C:308:PHE:HD1	10	0.15
(1,3338)	3:C:249:GLY:HA2	3:C:308:PHE:HD2	10	0.15
(1,3338)	3:C:249:GLY:HA3	3:C:308:PHE:HD1	10	0.15
(1,3338)	3:C:249:GLY:HA3	3:C:308:PHE:HD2	10	0.15
(1,3267)	3:C:246:PHE:HD1	3:C:288:PHE:HB2	9	0.15
(1,3267)	3:C:246:PHE:HD1	3:C:288:PHE:HB3	9	0.15
(1,3267)	3:C:246:PHE:HD2	3:C:288:PHE:HB2	9	0.15
(1,3267)	3:C:246:PHE:HD2	3:C:288:PHE:HB3	9	0.15
(1,312)	2:B:90:TYR:H	2:B:91:GLN:H	2	0.15
(1,2960)	3:C:227:VAL:H	3:C:227:VAL:HB	8	0.15
(1,2944)	3:C:226:LYS:HE2	3:C:278:LYS:HG2	5	0.15
(1,2944)	3:C:226:LYS:HE2	3:C:278:LYS:HG3	5	0.15
(1,2944)	3:C:226:LYS:HE3	3:C:278:LYS:HG2	5	0.15
(1,2944)	3:C:226:LYS:HE3	3:C:278:LYS:HG3	5	0.15
(1,2524)	3:C:196:THR:HB	3:C:198:ARG:HB2	6	0.15
(1,2524)	3:C:196:THR:HB	3:C:198:ARG:HB3	6	0.15
(1,2282)	3:C:182:TYR:HE1	3:C:215:GLU:HG2	3	0.15
(1,2282)	3:C:182:TYR:HE1	3:C:215:GLU:HG3	3	0.15
(1,2282)	3:C:182:TYR:HE2	3:C:215:GLU:HG2	3	0.15
(1,2282)	3:C:182:TYR:HE2	3:C:215:GLU:HG3	3	0.15
(1,2147)	3:C:178:TYR:HD1	3:C:182:TYR:HE1	9	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2147)	3:C:178:TYR:HD1	3:C:182:TYR:HE2	9	0.15
(1,2147)	3:C:178:TYR:HD2	3:C:182:TYR:HE1	9	0.15
(1,2147)	3:C:178:TYR:HD2	3:C:182:TYR:HE2	9	0.15
(1,174)	2:B:54:ASN:HB3	2:B:73:GLU:HB3	10	0.15
(1,1627)	3:C:160:LYS:HA	3:C:206:SER:HB2	1	0.15
(1,1627)	3:C:160:LYS:HA	3:C:206:SER:HB3	1	0.15
(1,1603)	2:B:72:ILE:HD11	1:A:9:A:H2	8	0.15
(1,1603)	2:B:72:ILE:HD12	1:A:9:A:H2	8	0.15
(1,1603)	2:B:72:ILE:HD13	1:A:9:A:H2	8	0.15
(1,1577)	1:A:9:A:H8	2:B:71:PHE:HE2	5	0.15
(1,1511)	2:B:104:ASN:HB2	2:B:105:SER:H	8	0.15
(1,1511)	2:B:104:ASN:HB3	2:B:105:SER:H	8	0.15
(1,1474)	2:B:90:TYR:HB2	2:B:97:LEU:HD11	3	0.15
(1,1474)	2:B:90:TYR:HB2	2:B:97:LEU:HD12	3	0.15
(1,1474)	2:B:90:TYR:HB2	2:B:97:LEU:HD13	3	0.15
(1,1474)	2:B:90:TYR:HB2	2:B:97:LEU:HD21	3	0.15
(1,1474)	2:B:90:TYR:HB2	2:B:97:LEU:HD22	3	0.15
(1,1474)	2:B:90:TYR:HB2	2:B:97:LEU:HD23	3	0.15
(1,1397)	2:B:74:PHE:HZ	2:B:87:LEU:HD11	6	0.15
(1,1397)	2:B:74:PHE:HZ	2:B:87:LEU:HD12	6	0.15
(1,1397)	2:B:74:PHE:HZ	2:B:87:LEU:HD13	6	0.15
(1,1397)	2:B:74:PHE:HZ	2:B:87:LEU:HD21	6	0.15
(1,1397)	2:B:74:PHE:HZ	2:B:87:LEU:HD22	6	0.15
(1,1397)	2:B:74:PHE:HZ	2:B:87:LEU:HD23	6	0.15
(1,1309)	2:B:52:VAL:HG11	2:B:54:ASN:H	7	0.15
(1,1309)	2:B:52:VAL:HG12	2:B:54:ASN:H	7	0.15
(1,1309)	2:B:52:VAL:HG13	2:B:54:ASN:H	7	0.15
(1,1309)	2:B:52:VAL:HG21	2:B:54:ASN:H	7	0.15
(1,1309)	2:B:52:VAL:HG22	2:B:54:ASN:H	7	0.15
(1,1309)	2:B:52:VAL:HG23	2:B:54:ASN:H	7	0.15
(1,1299)	2:B:50:GLY:H	2:B:52:VAL:HG11	9	0.15
(1,1299)	2:B:50:GLY:H	2:B:52:VAL:HG12	9	0.15
(1,1299)	2:B:50:GLY:H	2:B:52:VAL:HG13	9	0.15
(1,1299)	2:B:50:GLY:H	2:B:52:VAL:HG21	9	0.15
(1,1299)	2:B:50:GLY:H	2:B:52:VAL:HG22	9	0.15
(1,1299)	2:B:50:GLY:H	2:B:52:VAL:HG23	9	0.15
(1,1280)	2:B:48:ASN:HD21	2:B:49:VAL:HG11	10	0.15
(1,1280)	2:B:48:ASN:HD21	2:B:49:VAL:HG12	10	0.15
(1,1280)	2:B:48:ASN:HD21	2:B:49:VAL:HG13	10	0.15
(1,1280)	2:B:48:ASN:HD21	2:B:49:VAL:HG21	10	0.15
(1,1280)	2:B:48:ASN:HD21	2:B:49:VAL:HG22	10	0.15
(1,1280)	2:B:48:ASN:HD21	2:B:49:VAL:HG23	10	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1280)	2:B:48:ASN:HD22	2:B:49:VAL:HG11	10	0.15
(1,1280)	2:B:48:ASN:HD22	2:B:49:VAL:HG12	10	0.15
(1,1280)	2:B:48:ASN:HD22	2:B:49:VAL:HG13	10	0.15
(1,1280)	2:B:48:ASN:HD22	2:B:49:VAL:HG21	10	0.15
(1,1280)	2:B:48:ASN:HD22	2:B:49:VAL:HG22	10	0.15
(1,1280)	2:B:48:ASN:HD22	2:B:49:VAL:HG23	10	0.15
(1,1112)	2:B:27:VAL:HG11	2:B:103:SER:HB2	9	0.15
(1,1112)	2:B:27:VAL:HG11	2:B:103:SER:HB3	9	0.15
(1,1112)	2:B:27:VAL:HG12	2:B:103:SER:HB2	9	0.15
(1,1112)	2:B:27:VAL:HG12	2:B:103:SER:HB3	9	0.15
(1,1112)	2:B:27:VAL:HG13	2:B:103:SER:HB2	9	0.15
(1,1112)	2:B:27:VAL:HG13	2:B:103:SER:HB3	9	0.15
(1,1112)	2:B:27:VAL:HG21	2:B:103:SER:HB2	9	0.15
(1,1112)	2:B:27:VAL:HG21	2:B:103:SER:HB3	9	0.15
(1,1112)	2:B:27:VAL:HG22	2:B:103:SER:HB2	9	0.15
(1,1112)	2:B:27:VAL:HG22	2:B:103:SER:HB3	9	0.15
(1,1112)	2:B:27:VAL:HG23	2:B:103:SER:HB2	9	0.15
(1,1112)	2:B:27:VAL:HG23	2:B:103:SER:HB3	9	0.15
(1,1022)	2:B:74:PHE:HA	2:B:75:ARG:HA	6	0.15
(3,4)	2:B:86:ASN:HD21	1:A:3:U:H2'	5	0.14
(3,4)	2:B:86:ASN:HD22	1:A:3:U:H2'	5	0.14
(3,136)	2:B:97:LEU:H	1:A:5:U:H2'	5	0.14
(1,986)	2:B:98:LYS:HA	2:B:98:LYS:HD2	2	0.14
(1,986)	2:B:98:LYS:HA	2:B:98:LYS:HD3	2	0.14
(1,942)	2:B:52:VAL:HB	2:B:74:PHE:HD1	10	0.14
(1,942)	2:B:52:VAL:HB	2:B:74:PHE:HD2	10	0.14
(1,912)	2:B:30:LEU:HA	2:B:69:TYR:HE1	9	0.14
(1,912)	2:B:30:LEU:HA	2:B:69:TYR:HE2	9	0.14
(1,854)	2:B:96:PHE:HD1	2:B:97:LEU:H	4	0.14
(1,854)	2:B:96:PHE:HD2	2:B:97:LEU:H	4	0.14
(1,831)	2:B:91:GLN:HG2	2:B:92:LEU:H	7	0.14
(1,831)	2:B:91:GLN:HG3	2:B:92:LEU:H	7	0.14
(1,823)	2:B:91:GLN:H	2:B:96:PHE:HE1	5	0.14
(1,823)	2:B:91:GLN:H	2:B:96:PHE:HE2	5	0.14
(1,820)	2:B:90:TYR:H	2:B:90:TYR:HD1	2	0.14
(1,820)	2:B:90:TYR:H	2:B:90:TYR:HD2	2	0.14
(1,805)	2:B:88:ASN:H	2:B:97:LEU:HD21	3	0.14
(1,805)	2:B:88:ASN:H	2:B:97:LEU:HD22	3	0.14
(1,805)	2:B:88:ASN:H	2:B:97:LEU:HD23	3	0.14
(1,805)	2:B:88:ASN:H	2:B:97:LEU:HD21	10	0.14
(1,805)	2:B:88:ASN:H	2:B:97:LEU:HD22	10	0.14
(1,805)	2:B:88:ASN:H	2:B:97:LEU:HD23	10	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,734)	2:B:76:ASP:H	2:B:76:ASP:HB3	3	0.14
(1,707)	2:B:59:PHE:HA	2:B:67:LYS:H	7	0.14
(1,668)	2:B:60:ASP:HA	2:B:62:GLN:H	7	0.14
(1,667)	2:B:60:ASP:H	2:B:65:ARG:HB2	7	0.14
(1,631)	2:B:42:ILE:HB	2:B:56:LYS:H	10	0.14
(1,593)	2:B:52:VAL:HG11	2:B:53:ILE:H	4	0.14
(1,593)	2:B:52:VAL:HG12	2:B:53:ILE:H	4	0.14
(1,593)	2:B:52:VAL:HG13	2:B:53:ILE:H	4	0.14
(1,513)	2:B:40:GLU:HG2	2:B:44:ASP:H	1	0.14
(1,513)	2:B:40:GLU:HG3	2:B:44:ASP:H	1	0.14
(1,474)	2:B:41:GLN:H	2:B:43:LEU:H	3	0.14
(1,474)	2:B:41:GLN:H	2:B:43:LEU:H	8	0.14
(1,4606)	3:C:168:TRP:HZ2	1:A:4:A:H2	1	0.14
(1,4594)	3:C:168:TRP:HA	1:A:4:A:H8	2	0.14
(1,4591)	3:C:167:ASN:HA	1:A:4:A:H1'	6	0.14
(1,4574)	3:C:162:PHE:HB2	1:A:5:U:H6	5	0.14
(1,4574)	3:C:162:PHE:HB3	1:A:5:U:H6	5	0.14
(1,4574)	3:C:162:PHE:HB2	1:A:5:U:H6	6	0.14
(1,4574)	3:C:162:PHE:HB3	1:A:5:U:H6	6	0.14
(1,448)	2:B:39:GLU:H	2:B:39:GLU:HG3	6	0.14
(1,4432)	3:C:309:LYS:HA	3:C:309:LYS:HE2	3	0.14
(1,4432)	3:C:309:LYS:HA	3:C:309:LYS:HE3	3	0.14
(1,4263)	3:C:303:ASN:HB2	3:C:306:ILE:HB	3	0.14
(1,4263)	3:C:303:ASN:HB3	3:C:306:ILE:HB	3	0.14
(1,4235)	3:C:300:VAL:H	3:C:300:VAL:HG11	6	0.14
(1,4235)	3:C:300:VAL:H	3:C:300:VAL:HG12	6	0.14
(1,4235)	3:C:300:VAL:H	3:C:300:VAL:HG13	6	0.14
(1,4235)	3:C:300:VAL:H	3:C:300:VAL:HG21	6	0.14
(1,4235)	3:C:300:VAL:H	3:C:300:VAL:HG22	6	0.14
(1,4235)	3:C:300:VAL:H	3:C:300:VAL:HG23	6	0.14
(1,405)	2:B:28:VAL:H	2:B:72:ILE:HG21	2	0.14
(1,405)	2:B:28:VAL:H	2:B:72:ILE:HG22	2	0.14
(1,405)	2:B:28:VAL:H	2:B:72:ILE:HG23	2	0.14
(1,405)	2:B:28:VAL:H	2:B:72:ILE:HG21	3	0.14
(1,405)	2:B:28:VAL:H	2:B:72:ILE:HG22	3	0.14
(1,405)	2:B:28:VAL:H	2:B:72:ILE:HG23	3	0.14
(1,3957)	3:C:275:MET:HG2	3:C:286:PHE:HZ	1	0.14
(1,3957)	3:C:275:MET:HG3	3:C:286:PHE:HZ	1	0.14
(1,3829)	3:C:269:ILE:HA	3:C:291:TYR:HD1	7	0.14
(1,3829)	3:C:269:ILE:HA	3:C:291:TYR:HD2	7	0.14
(1,3574)	3:C:262:PHE:HA	3:C:308:PHE:HE1	3	0.14
(1,3574)	3:C:262:PHE:HA	3:C:308:PHE:HE2	3	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,348)	2:B:47:SER:HB2	2:B:48:ASN:H	3	0.14
(1,3344)	3:C:250:ILE:HA	3:C:308:PHE:HD1	2	0.14
(1,3344)	3:C:250:ILE:HA	3:C:308:PHE:HD2	2	0.14
(1,3303)	3:C:247:VAL:HB	3:C:263:PHE:HD1	7	0.14
(1,3303)	3:C:247:VAL:HB	3:C:263:PHE:HD2	7	0.14
(1,312)	2:B:90:TYR:H	2:B:91:GLN:H	9	0.14
(1,2896)	3:C:222:ILE:H	3:C:222:ILE:HD11	5	0.14
(1,2896)	3:C:222:ILE:H	3:C:222:ILE:HD12	5	0.14
(1,2896)	3:C:222:ILE:H	3:C:222:ILE:HD13	5	0.14
(1,2334)	3:C:185:VAL:HA	3:C:207:PHE:HE1	3	0.14
(1,2334)	3:C:185:VAL:HA	3:C:207:PHE:HE2	3	0.14
(1,2274)	3:C:182:TYR:HD1	3:C:212:SER:HA	2	0.14
(1,2274)	3:C:182:TYR:HD2	3:C:212:SER:HA	2	0.14
(1,2167)	3:C:178:TYR:HE1	3:C:223:LEU:HB2	2	0.14
(1,2167)	3:C:178:TYR:HE1	3:C:223:LEU:HB3	2	0.14
(1,2167)	3:C:178:TYR:HE2	3:C:223:LEU:HB2	2	0.14
(1,2167)	3:C:178:TYR:HE2	3:C:223:LEU:HB3	2	0.14
(1,2147)	3:C:178:TYR:HD1	3:C:182:TYR:HE1	2	0.14
(1,2147)	3:C:178:TYR:HD1	3:C:182:TYR:HE2	2	0.14
(1,2147)	3:C:178:TYR:HD2	3:C:182:TYR:HE1	2	0.14
(1,2147)	3:C:178:TYR:HD2	3:C:182:TYR:HE2	2	0.14
(1,2128)	3:C:177:GLU:H	3:C:178:TYR:HD1	10	0.14
(1,2128)	3:C:177:GLU:H	3:C:178:TYR:HD2	10	0.14
(1,1992)	3:C:172:GLU:HA	3:C:190:ILE:HG12	4	0.14
(1,1992)	3:C:172:GLU:HA	3:C:190:ILE:HG13	4	0.14
(1,1973)	3:C:171:THR:HG21	3:C:173:ASP:H	8	0.14
(1,1973)	3:C:171:THR:HG22	3:C:173:ASP:H	8	0.14
(1,1973)	3:C:171:THR:HG23	3:C:173:ASP:H	8	0.14
(1,1832)	3:C:165:GLY:HA2	3:C:167:ASN:HB2	8	0.14
(1,1832)	3:C:165:GLY:HA2	3:C:167:ASN:HB3	8	0.14
(1,1832)	3:C:165:GLY:HA3	3:C:167:ASN:HB2	8	0.14
(1,1832)	3:C:165:GLY:HA3	3:C:167:ASN:HB3	8	0.14
(1,1593)	2:B:69:TYR:HB3	1:A:10:U:H6	6	0.14
(1,1581)	2:B:58:MET:HE1	1:A:10:U:H5	7	0.14
(1,1581)	2:B:58:MET:HE2	1:A:10:U:H5	7	0.14
(1,1581)	2:B:58:MET:HE3	1:A:10:U:H5	7	0.14
(1,1577)	1:A:9:A:H8	2:B:71:PHE:HE2	7	0.14
(1,1569)	1:A:9:A:H2	2:B:71:PHE:HB2	4	0.14
(1,1474)	2:B:90:TYR:HB2	2:B:97:LEU:HD11	6	0.14
(1,1474)	2:B:90:TYR:HB2	2:B:97:LEU:HD12	6	0.14
(1,1474)	2:B:90:TYR:HB2	2:B:97:LEU:HD13	6	0.14
(1,1474)	2:B:90:TYR:HB2	2:B:97:LEU:HD21	6	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1474)	2:B:90:TYR:HB2	2:B:97:LEU:HD22	6	0.14
(1,1474)	2:B:90:TYR:HB2	2:B:97:LEU:HD23	6	0.14
(1,1460)	2:B:87:LEU:HD11	2:B:90:TYR:HB2	1	0.14
(1,1460)	2:B:87:LEU:HD12	2:B:90:TYR:HB2	1	0.14
(1,1460)	2:B:87:LEU:HD13	2:B:90:TYR:HB2	1	0.14
(1,1460)	2:B:87:LEU:HD21	2:B:90:TYR:HB2	1	0.14
(1,1460)	2:B:87:LEU:HD22	2:B:90:TYR:HB2	1	0.14
(1,1460)	2:B:87:LEU:HD23	2:B:90:TYR:HB2	1	0.14
(1,144)	2:B:49:VAL:H	2:B:49:VAL:HG21	7	0.14
(1,144)	2:B:49:VAL:H	2:B:49:VAL:HG22	7	0.14
(1,144)	2:B:49:VAL:H	2:B:49:VAL:HG23	7	0.14
(1,1347)	2:B:55:LEU:HD11	2:B:72:ILE:H	1	0.14
(1,1347)	2:B:55:LEU:HD12	2:B:72:ILE:H	1	0.14
(1,1347)	2:B:55:LEU:HD13	2:B:72:ILE:H	1	0.14
(1,1347)	2:B:55:LEU:HD21	2:B:72:ILE:H	1	0.14
(1,1347)	2:B:55:LEU:HD22	2:B:72:ILE:H	1	0.14
(1,1347)	2:B:55:LEU:HD23	2:B:72:ILE:H	1	0.14
(1,1306)	2:B:52:VAL:HG11	2:B:53:ILE:H	4	0.14
(1,1306)	2:B:52:VAL:HG12	2:B:53:ILE:H	4	0.14
(1,1306)	2:B:52:VAL:HG13	2:B:53:ILE:H	4	0.14
(1,1306)	2:B:52:VAL:HG21	2:B:53:ILE:H	4	0.14
(1,1306)	2:B:52:VAL:HG22	2:B:53:ILE:H	4	0.14
(1,1306)	2:B:52:VAL:HG23	2:B:53:ILE:H	4	0.14
(1,1274)	2:B:48:ASN:HA	2:B:48:ASN:HD21	4	0.14
(1,1274)	2:B:48:ASN:HA	2:B:48:ASN:HD22	4	0.14
(1,1185)	2:B:37:GLN:HE21	2:B:93:GLY:HA2	6	0.14
(1,1185)	2:B:37:GLN:HE21	2:B:93:GLY:HA3	6	0.14
(1,1185)	2:B:37:GLN:HE22	2:B:93:GLY:HA2	6	0.14
(1,1185)	2:B:37:GLN:HE22	2:B:93:GLY:HA3	6	0.14
(1,1183)	2:B:37:GLN:HE21	2:B:42:ILE:HD11	2	0.14
(1,1183)	2:B:37:GLN:HE21	2:B:42:ILE:HD12	2	0.14
(1,1183)	2:B:37:GLN:HE21	2:B:42:ILE:HD13	2	0.14
(1,1183)	2:B:37:GLN:HE22	2:B:42:ILE:HD11	2	0.14
(1,1183)	2:B:37:GLN:HE22	2:B:42:ILE:HD12	2	0.14
(1,1183)	2:B:37:GLN:HE22	2:B:42:ILE:HD13	2	0.14
(1,1165)	2:B:34:PRO:HB2	2:B:35:TYR:HD1	10	0.14
(1,1165)	2:B:34:PRO:HB2	2:B:35:TYR:HD2	10	0.14
(1,1165)	2:B:34:PRO:HB3	2:B:35:TYR:HD1	10	0.14
(1,1165)	2:B:34:PRO:HB3	2:B:35:TYR:HD2	10	0.14
(1,1157)	2:B:33:ILE:HB	2:B:93:GLY:HA2	8	0.14
(1,1157)	2:B:33:ILE:HB	2:B:93:GLY:HA3	8	0.14
(1,1022)	2:B:74:PHE:HA	2:B:75:ARG:HA	10	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,964)	2:B:81:ALA:HA	2:B:84:VAL:HG21	5	0.13
(1,964)	2:B:81:ALA:HA	2:B:84:VAL:HG22	5	0.13
(1,964)	2:B:81:ALA:HA	2:B:84:VAL:HG23	5	0.13
(1,950)	2:B:89:GLY:HA2	2:B:96:PHE:HD1	1	0.13
(1,950)	2:B:89:GLY:HA2	2:B:96:PHE:HD2	1	0.13
(1,942)	2:B:52:VAL:HB	2:B:74:PHE:HD1	8	0.13
(1,942)	2:B:52:VAL:HB	2:B:74:PHE:HD2	8	0.13
(1,934)	2:B:45:LEU:HB2	2:B:90:TYR:HE1	3	0.13
(1,934)	2:B:45:LEU:HB2	2:B:90:TYR:HE2	3	0.13
(1,854)	2:B:96:PHE:HD1	2:B:97:LEU:H	7	0.13
(1,854)	2:B:96:PHE:HD2	2:B:97:LEU:H	7	0.13
(1,846)	2:B:95:ARG:H	2:B:96:PHE:H	9	0.13
(1,831)	2:B:91:GLN:HG2	2:B:92:LEU:H	3	0.13
(1,831)	2:B:91:GLN:HG3	2:B:92:LEU:H	3	0.13
(1,805)	2:B:88:ASN:H	2:B:97:LEU:HD21	7	0.13
(1,805)	2:B:88:ASN:H	2:B:97:LEU:HD22	7	0.13
(1,805)	2:B:88:ASN:H	2:B:97:LEU:HD23	7	0.13
(1,767)	2:B:74:PHE:HD1	2:B:83:ALA:H	10	0.13
(1,767)	2:B:74:PHE:HD2	2:B:83:ALA:H	10	0.13
(1,759)	2:B:84:VAL:H	2:B:87:LEU:HG	10	0.13
(1,67)	2:B:35:TYR:HE1	2:B:68:GLY:HA3	5	0.13
(1,67)	2:B:35:TYR:HE2	2:B:68:GLY:HA3	5	0.13
(1,597)	2:B:54:ASN:H	2:B:74:PHE:HA	1	0.13
(1,531)	2:B:45:LEU:HB3	2:B:47:SER:H	2	0.13
(1,53)	2:B:72:ILE:HB	2:B:73:GLU:H	5	0.13
(1,53)	2:B:72:ILE:HB	2:B:73:GLU:H	10	0.13
(1,513)	2:B:40:GLU:HG2	2:B:44:ASP:H	6	0.13
(1,513)	2:B:40:GLU:HG3	2:B:44:ASP:H	6	0.13
(1,513)	2:B:40:GLU:HG2	2:B:44:ASP:H	9	0.13
(1,513)	2:B:40:GLU:HG3	2:B:44:ASP:H	9	0.13
(1,5)	2:B:80:SER:H	2:B:81:ALA:HB1	4	0.13
(1,5)	2:B:80:SER:H	2:B:81:ALA:HB2	4	0.13
(1,5)	2:B:80:SER:H	2:B:81:ALA:HB3	4	0.13
(1,5)	2:B:80:SER:H	2:B:81:ALA:HB1	6	0.13
(1,5)	2:B:80:SER:H	2:B:81:ALA:HB2	6	0.13
(1,5)	2:B:80:SER:H	2:B:81:ALA:HB3	6	0.13
(1,5)	2:B:80:SER:H	2:B:81:ALA:HB1	8	0.13
(1,5)	2:B:80:SER:H	2:B:81:ALA:HB2	8	0.13
(1,5)	2:B:80:SER:H	2:B:81:ALA:HB3	8	0.13
(1,5)	2:B:80:SER:H	2:B:81:ALA:HB1	9	0.13
(1,5)	2:B:80:SER:H	2:B:81:ALA:HB2	9	0.13
(1,5)	2:B:80:SER:H	2:B:81:ALA:HB3	9	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5)	2:B:80:SER:H	2:B:81:ALA:HB1	10	0.13
(1,5)	2:B:80:SER:H	2:B:81:ALA:HB2	10	0.13
(1,5)	2:B:80:SER:H	2:B:81:ALA:HB3	10	0.13
(1,474)	2:B:41:GLN:H	2:B:43:LEU:H	10	0.13
(1,4646)	3:C:246:PHE:HE1	1:A:2:A:H8	5	0.13
(1,4646)	3:C:246:PHE:HE2	1:A:2:A:H8	5	0.13
(1,4628)	3:C:204:PHE:HZ	1:A:7:U:H6	1	0.13
(1,4607)	3:C:168:TRP:HZ3	1:A:4:A:H1'	7	0.13
(1,4607)	3:C:168:TRP:HZ3	1:A:4:A:H1'	8	0.13
(1,4607)	3:C:168:TRP:HZ3	1:A:4:A:H1'	10	0.13
(1,4606)	3:C:168:TRP:HZ2	1:A:4:A:H2	9	0.13
(1,4606)	3:C:168:TRP:HZ2	1:A:4:A:H2	10	0.13
(1,4589)	3:C:165:GLY:HA2	1:A:5:U:H6	8	0.13
(1,4589)	3:C:165:GLY:HA3	1:A:5:U:H6	8	0.13
(1,4574)	3:C:162:PHE:HB2	1:A:5:U:H6	2	0.13
(1,4574)	3:C:162:PHE:HB3	1:A:5:U:H6	2	0.13
(1,436)	2:B:37:GLN:HE21	2:B:38:THR:H	1	0.13
(1,4327)	3:C:305:PHE:HD1	3:C:314:GLU:HB2	10	0.13
(1,4327)	3:C:305:PHE:HD1	3:C:314:GLU:HB3	10	0.13
(1,4327)	3:C:305:PHE:HD2	3:C:314:GLU:HB2	10	0.13
(1,4327)	3:C:305:PHE:HD2	3:C:314:GLU:HB3	10	0.13
(1,4250)	3:C:302:GLN:HA	3:C:302:GLN:HG2	1	0.13
(1,4250)	3:C:302:GLN:HA	3:C:302:GLN:HG3	1	0.13
(1,4037)	3:C:285:GLY:H	3:C:286:PHE:H	3	0.13
(1,4012)	3:C:280:THR:HG21	3:C:282:GLN:H	2	0.13
(1,4012)	3:C:280:THR:HG22	3:C:282:GLN:H	2	0.13
(1,4012)	3:C:280:THR:HG23	3:C:282:GLN:H	2	0.13
(1,4006)	3:C:279:ASP:H	3:C:281:GLY:H	2	0.13
(1,3986)	3:C:277:ASP:H	3:C:280:THR:H	7	0.13
(1,3829)	3:C:269:ILE:HA	3:C:291:TYR:HD1	1	0.13
(1,3829)	3:C:269:ILE:HA	3:C:291:TYR:HD2	1	0.13
(1,3829)	3:C:269:ILE:HA	3:C:291:TYR:HD1	4	0.13
(1,3829)	3:C:269:ILE:HA	3:C:291:TYR:HD2	4	0.13
(1,3787)	3:C:266:TRP:HZ3	3:C:291:TYR:HE1	6	0.13
(1,3787)	3:C:266:TRP:HZ3	3:C:291:TYR:HE2	6	0.13
(1,3736)	3:C:266:TRP:HD1	3:C:291:TYR:HE1	10	0.13
(1,3736)	3:C:266:TRP:HD1	3:C:291:TYR:HE2	10	0.13
(1,3691)	3:C:264:SER:HA	3:C:291:TYR:HE1	7	0.13
(1,3691)	3:C:264:SER:HA	3:C:291:TYR:HE2	7	0.13
(1,3369)	3:C:250:ILE:HG21	3:C:308:PHE:HE1	1	0.13
(1,3369)	3:C:250:ILE:HG21	3:C:308:PHE:HE2	1	0.13
(1,3369)	3:C:250:ILE:HG22	3:C:308:PHE:HE1	1	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3369)	3:C:250:ILE:HG22	3:C:308:PHE:HE2	1	0.13
(1,3369)	3:C:250:ILE:HG23	3:C:308:PHE:HE1	1	0.13
(1,3369)	3:C:250:ILE:HG23	3:C:308:PHE:HE2	1	0.13
(1,3357)	3:C:250:ILE:HD11	3:C:286:PHE:HA	7	0.13
(1,3357)	3:C:250:ILE:HD12	3:C:286:PHE:HA	7	0.13
(1,3357)	3:C:250:ILE:HD13	3:C:286:PHE:HA	7	0.13
(1,3274)	3:C:246:PHE:HD1	3:C:319:GLU:H	3	0.13
(1,3274)	3:C:246:PHE:HD2	3:C:319:GLU:H	3	0.13
(1,3244)	3:C:245:ILE:HG21	3:C:246:PHE:H	3	0.13
(1,3244)	3:C:245:ILE:HG22	3:C:246:PHE:H	3	0.13
(1,3244)	3:C:245:ILE:HG23	3:C:246:PHE:H	3	0.13
(1,312)	2:B:90:TYR:H	2:B:91:GLN:H	1	0.13
(1,312)	2:B:90:TYR:H	2:B:91:GLN:H	3	0.13
(1,312)	2:B:90:TYR:H	2:B:91:GLN:H	10	0.13
(1,2955)	3:C:227:VAL:HG11	3:C:278:LYS:HA	7	0.13
(1,2955)	3:C:227:VAL:HG12	3:C:278:LYS:HA	7	0.13
(1,2955)	3:C:227:VAL:HG13	3:C:278:LYS:HA	7	0.13
(1,2955)	3:C:227:VAL:HG21	3:C:278:LYS:HA	7	0.13
(1,2955)	3:C:227:VAL:HG22	3:C:278:LYS:HA	7	0.13
(1,2955)	3:C:227:VAL:HG23	3:C:278:LYS:HA	7	0.13
(1,2827)	3:C:219:THR:HB	3:C:220:GLN:H	7	0.13
(1,2727)	3:C:213:VAL:HA	3:C:216:VAL:HA	2	0.13
(1,2716)	3:C:212:SER:HA	3:C:215:GLU:HG2	2	0.13
(1,2716)	3:C:212:SER:HA	3:C:215:GLU:HG3	2	0.13
(1,2430)	3:C:189:LYS:HG2	3:C:204:PHE:HA	9	0.13
(1,2430)	3:C:189:LYS:HG3	3:C:204:PHE:HA	9	0.13
(1,2297)	3:C:183:GLY:HA2	3:C:209:LYS:HB2	10	0.13
(1,2297)	3:C:183:GLY:HA2	3:C:209:LYS:HB3	10	0.13
(1,2297)	3:C:183:GLY:HA3	3:C:209:LYS:HB2	10	0.13
(1,2297)	3:C:183:GLY:HA3	3:C:209:LYS:HB3	10	0.13
(1,2259)	3:C:181:LYS:HG2	3:C:182:TYR:HE1	8	0.13
(1,2259)	3:C:181:LYS:HG2	3:C:182:TYR:HE2	8	0.13
(1,2259)	3:C:181:LYS:HG3	3:C:182:TYR:HE1	8	0.13
(1,2259)	3:C:181:LYS:HG3	3:C:182:TYR:HE2	8	0.13
(1,2252)	3:C:181:LYS:HB2	3:C:182:TYR:HE1	10	0.13
(1,2252)	3:C:181:LYS:HB2	3:C:182:TYR:HE2	10	0.13
(1,2252)	3:C:181:LYS:HB3	3:C:182:TYR:HE1	10	0.13
(1,2252)	3:C:181:LYS:HB3	3:C:182:TYR:HE2	10	0.13
(1,2147)	3:C:178:TYR:HD1	3:C:182:TYR:HE1	3	0.13
(1,2147)	3:C:178:TYR:HD1	3:C:182:TYR:HE2	3	0.13
(1,2147)	3:C:178:TYR:HD2	3:C:182:TYR:HE1	3	0.13
(1,2147)	3:C:178:TYR:HD2	3:C:182:TYR:HE2	3	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2147)	3:C:178:TYR:HD1	3:C:182:TYR:HE1	8	0.13
(1,2147)	3:C:178:TYR:HD1	3:C:182:TYR:HE2	8	0.13
(1,2147)	3:C:178:TYR:HD2	3:C:182:TYR:HE1	8	0.13
(1,2147)	3:C:178:TYR:HD2	3:C:182:TYR:HE2	8	0.13
(1,1740)	3:C:162:PHE:HE1	3:C:239:GLN:HG2	7	0.13
(1,1740)	3:C:162:PHE:HE1	3:C:239:GLN:HG3	7	0.13
(1,1740)	3:C:162:PHE:HE2	3:C:239:GLN:HG2	7	0.13
(1,1740)	3:C:162:PHE:HE2	3:C:239:GLN:HG3	7	0.13
(1,1740)	3:C:162:PHE:HE1	3:C:239:GLN:HG2	8	0.13
(1,1740)	3:C:162:PHE:HE1	3:C:239:GLN:HG3	8	0.13
(1,1740)	3:C:162:PHE:HE2	3:C:239:GLN:HG2	8	0.13
(1,1740)	3:C:162:PHE:HE2	3:C:239:GLN:HG3	8	0.13
(1,1624)	3:C:159:CYS:H	3:C:160:LYS:H	8	0.13
(1,1600)	2:B:71:PHE:HZ	1:A:10:U:H5	10	0.13
(1,1598)	2:B:69:TYR:HD1	1:A:10:U:H6	6	0.13
(1,1598)	2:B:69:TYR:HD2	1:A:10:U:H6	6	0.13
(1,1581)	2:B:58:MET:HE1	1:A:10:U:H5	8	0.13
(1,1581)	2:B:58:MET:HE2	1:A:10:U:H5	8	0.13
(1,1581)	2:B:58:MET:HE3	1:A:10:U:H5	8	0.13
(1,1575)	1:A:9:A:H8	2:B:69:TYR:HE1	7	0.13
(1,1575)	1:A:9:A:H8	2:B:69:TYR:HE2	7	0.13
(1,1558)	1:A:9:A:H2	2:B:28:VAL:H	3	0.13
(1,1558)	1:A:9:A:H2	2:B:28:VAL:H	10	0.13
(1,1527)	1:A:11:A:H2	1:A:12:A:H8	5	0.13
(1,1517)	1:A:9:A:H2'	1:A:10:U:H5	4	0.13
(1,1347)	2:B:55:LEU:HD11	2:B:72:ILE:H	2	0.13
(1,1347)	2:B:55:LEU:HD12	2:B:72:ILE:H	2	0.13
(1,1347)	2:B:55:LEU:HD13	2:B:72:ILE:H	2	0.13
(1,1347)	2:B:55:LEU:HD21	2:B:72:ILE:H	2	0.13
(1,1347)	2:B:55:LEU:HD22	2:B:72:ILE:H	2	0.13
(1,1347)	2:B:55:LEU:HD23	2:B:72:ILE:H	2	0.13
(1,1347)	2:B:55:LEU:HD11	2:B:72:ILE:H	4	0.13
(1,1347)	2:B:55:LEU:HD12	2:B:72:ILE:H	4	0.13
(1,1347)	2:B:55:LEU:HD13	2:B:72:ILE:H	4	0.13
(1,1347)	2:B:55:LEU:HD21	2:B:72:ILE:H	4	0.13
(1,1347)	2:B:55:LEU:HD22	2:B:72:ILE:H	4	0.13
(1,1347)	2:B:55:LEU:HD23	2:B:72:ILE:H	4	0.13
(1,1347)	2:B:55:LEU:HD11	2:B:72:ILE:H	8	0.13
(1,1347)	2:B:55:LEU:HD12	2:B:72:ILE:H	8	0.13
(1,1347)	2:B:55:LEU:HD13	2:B:72:ILE:H	8	0.13
(1,1347)	2:B:55:LEU:HD21	2:B:72:ILE:H	8	0.13
(1,1347)	2:B:55:LEU:HD22	2:B:72:ILE:H	8	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1347)	2:B:55:LEU:HD23	2:B:72:ILE:H	8	0.13
(1,1300)	2:B:50:GLY:H	2:B:79:SER:HB2	4	0.13
(1,1300)	2:B:50:GLY:H	2:B:79:SER:HB3	4	0.13
(1,1246)	2:B:45:LEU:HD11	2:B:90:TYR:HD1	10	0.13
(1,1246)	2:B:45:LEU:HD11	2:B:90:TYR:HD2	10	0.13
(1,1246)	2:B:45:LEU:HD12	2:B:90:TYR:HD1	10	0.13
(1,1246)	2:B:45:LEU:HD12	2:B:90:TYR:HD2	10	0.13
(1,1246)	2:B:45:LEU:HD13	2:B:90:TYR:HD1	10	0.13
(1,1246)	2:B:45:LEU:HD13	2:B:90:TYR:HD2	10	0.13
(1,1246)	2:B:45:LEU:HD21	2:B:90:TYR:HD1	10	0.13
(1,1246)	2:B:45:LEU:HD21	2:B:90:TYR:HD2	10	0.13
(1,1246)	2:B:45:LEU:HD22	2:B:90:TYR:HD1	10	0.13
(1,1246)	2:B:45:LEU:HD22	2:B:90:TYR:HD2	10	0.13
(1,1246)	2:B:45:LEU:HD23	2:B:90:TYR:HD1	10	0.13
(1,1246)	2:B:45:LEU:HD23	2:B:90:TYR:HD2	10	0.13
(1,1244)	2:B:45:LEU:HD11	2:B:87:LEU:H	1	0.13
(1,1244)	2:B:45:LEU:HD12	2:B:87:LEU:H	1	0.13
(1,1244)	2:B:45:LEU:HD13	2:B:87:LEU:H	1	0.13
(1,1244)	2:B:45:LEU:HD21	2:B:87:LEU:H	1	0.13
(1,1244)	2:B:45:LEU:HD22	2:B:87:LEU:H	1	0.13
(1,1244)	2:B:45:LEU:HD23	2:B:87:LEU:H	1	0.13
(1,1165)	2:B:34:PRO:HB2	2:B:35:TYR:HD1	6	0.13
(1,1165)	2:B:34:PRO:HB2	2:B:35:TYR:HD2	6	0.13
(1,1165)	2:B:34:PRO:HB3	2:B:35:TYR:HD1	6	0.13
(1,1165)	2:B:34:PRO:HB3	2:B:35:TYR:HD2	6	0.13
(1,1142)	2:B:30:LEU:HB2	2:B:69:TYR:HD1	4	0.13
(1,1142)	2:B:30:LEU:HB2	2:B:69:TYR:HD2	4	0.13
(1,1142)	2:B:30:LEU:HB3	2:B:69:TYR:HD1	4	0.13
(1,1142)	2:B:30:LEU:HB3	2:B:69:TYR:HD2	4	0.13
(1,1132)	2:B:28:VAL:HG11	2:B:85:ARG:H	4	0.13
(1,1132)	2:B:28:VAL:HG12	2:B:85:ARG:H	4	0.13
(1,1132)	2:B:28:VAL:HG13	2:B:85:ARG:H	4	0.13
(1,1132)	2:B:28:VAL:HG21	2:B:85:ARG:H	4	0.13
(1,1132)	2:B:28:VAL:HG22	2:B:85:ARG:H	4	0.13
(1,1132)	2:B:28:VAL:HG23	2:B:85:ARG:H	4	0.13
(1,1022)	2:B:74:PHE:HA	2:B:75:ARG:HA	1	0.13
(1,1022)	2:B:74:PHE:HA	2:B:75:ARG:HA	5	0.13
(1,1005)	2:B:98:LYS:HA	2:B:98:LYS:HE2	7	0.13
(1,1005)	2:B:98:LYS:HA	2:B:98:LYS:HE3	7	0.13
(2,24)	2:B:58:MET:O	2:B:69:TYR:N	7	0.12
(1,956)	2:B:35:TYR:HD1	2:B:59:PHE:HE1	5	0.12
(1,956)	2:B:35:TYR:HD1	2:B:59:PHE:HE2	5	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,956)	2:B:35:TYR:HD2	2:B:59:PHE:HE1	5	0.12
(1,956)	2:B:35:TYR:HD2	2:B:59:PHE:HE2	5	0.12
(1,858)	2:B:88:ASN:HA	2:B:97:LEU:H	5	0.12
(1,823)	2:B:91:GLN:H	2:B:96:PHE:HE1	2	0.12
(1,823)	2:B:91:GLN:H	2:B:96:PHE:HE2	2	0.12
(1,823)	2:B:91:GLN:H	2:B:96:PHE:HE1	8	0.12
(1,823)	2:B:91:GLN:H	2:B:96:PHE:HE2	8	0.12
(1,800)	2:B:88:ASN:H	2:B:88:ASN:HD21	3	0.12
(1,767)	2:B:74:PHE:HD1	2:B:83:ALA:H	3	0.12
(1,767)	2:B:74:PHE:HD2	2:B:83:ALA:H	3	0.12
(1,706)	2:B:27:VAL:HG11	2:B:102:SER:H	6	0.12
(1,706)	2:B:27:VAL:HG12	2:B:102:SER:H	6	0.12
(1,706)	2:B:27:VAL:HG13	2:B:102:SER:H	6	0.12
(1,687)	2:B:64:GLY:H	2:B:65:ARG:HG2	2	0.12
(1,687)	2:B:64:GLY:H	2:B:65:ARG:HG3	2	0.12
(1,602)	2:B:52:VAL:HB	2:B:54:ASN:H	4	0.12
(1,59)	2:B:31:GLY:HA3	2:B:69:TYR:HB2	9	0.12
(1,584)	2:B:72:ILE:HG21	2:B:73:GLU:H	6	0.12
(1,584)	2:B:72:ILE:HG22	2:B:73:GLU:H	6	0.12
(1,584)	2:B:72:ILE:HG23	2:B:73:GLU:H	6	0.12
(1,571)	2:B:47:SER:HA	2:B:52:VAL:H	10	0.12
(1,538)	2:B:77:LEU:HA	2:B:79:SER:H	10	0.12
(1,52)	2:B:72:ILE:HB	2:B:74:PHE:HD1	4	0.12
(1,52)	2:B:72:ILE:HB	2:B:74:PHE:HD2	4	0.12
(1,513)	2:B:40:GLU:HG2	2:B:44:ASP:H	10	0.12
(1,513)	2:B:40:GLU:HG3	2:B:44:ASP:H	10	0.12
(1,474)	2:B:41:GLN:H	2:B:43:LEU:H	7	0.12
(1,4635)	3:C:234:ILE:HD11	1:A:6:A:H2	7	0.12
(1,4635)	3:C:234:ILE:HD12	1:A:6:A:H2	7	0.12
(1,4635)	3:C:234:ILE:HD13	1:A:6:A:H2	7	0.12
(1,4628)	3:C:204:PHE:HZ	1:A:7:U:H6	2	0.12
(1,4627)	3:C:204:PHE:HZ	1:A:6:A:H2	1	0.12
(1,4627)	3:C:204:PHE:HZ	1:A:6:A:H2	4	0.12
(1,4627)	3:C:204:PHE:HZ	1:A:6:A:H2	5	0.12
(1,4619)	3:C:204:PHE:HD1	1:A:6:A:H2	7	0.12
(1,4619)	3:C:204:PHE:HD2	1:A:6:A:H2	7	0.12
(1,4606)	3:C:168:TRP:HZ2	1:A:4:A:H2	8	0.12
(1,4594)	3:C:168:TRP:HA	1:A:4:A:H8	5	0.12
(1,4574)	3:C:162:PHE:HB2	1:A:5:U:H6	10	0.12
(1,4574)	3:C:162:PHE:HB3	1:A:5:U:H6	10	0.12
(1,4543)	1:A:1:U:H2'	1:A:1:U:H6	9	0.12
(1,436)	2:B:37:GLN:HE21	2:B:38:THR:H	10	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4023)	3:C:282:GLN:HA	3:C:286:PHE:HZ	2	0.12
(1,3990)	3:C:278:LYS:HA	3:C:281:GLY:H	10	0.12
(1,3966)	3:C:276:LEU:HA	3:C:283:SER:HB2	2	0.12
(1,3966)	3:C:276:LEU:HA	3:C:283:SER:HB3	2	0.12
(1,3853)	3:C:269:ILE:HG21	3:C:291:TYR:HD1	2	0.12
(1,3853)	3:C:269:ILE:HG21	3:C:291:TYR:HD2	2	0.12
(1,3853)	3:C:269:ILE:HG22	3:C:291:TYR:HD1	2	0.12
(1,3853)	3:C:269:ILE:HG22	3:C:291:TYR:HD2	2	0.12
(1,3853)	3:C:269:ILE:HG23	3:C:291:TYR:HD1	2	0.12
(1,3853)	3:C:269:ILE:HG23	3:C:291:TYR:HD2	2	0.12
(1,3844)	3:C:269:ILE:HG12	3:C:291:TYR:HA	10	0.12
(1,3844)	3:C:269:ILE:HG13	3:C:291:TYR:HA	10	0.12
(1,3822)	3:C:269:ILE:HA	3:C:269:ILE:HG12	3	0.12
(1,3822)	3:C:269:ILE:HA	3:C:269:ILE:HG13	3	0.12
(1,38)	2:B:57:MET:HE1	2:B:59:PHE:HE1	7	0.12
(1,38)	2:B:57:MET:HE1	2:B:59:PHE:HE2	7	0.12
(1,38)	2:B:57:MET:HE2	2:B:59:PHE:HE1	7	0.12
(1,38)	2:B:57:MET:HE2	2:B:59:PHE:HE2	7	0.12
(1,38)	2:B:57:MET:HE3	2:B:59:PHE:HE1	7	0.12
(1,38)	2:B:57:MET:HE3	2:B:59:PHE:HE2	7	0.12
(1,3787)	3:C:266:TRP:HZ3	3:C:291:TYR:HE1	2	0.12
(1,3787)	3:C:266:TRP:HZ3	3:C:291:TYR:HE2	2	0.12
(1,3787)	3:C:266:TRP:HZ3	3:C:291:TYR:HE1	8	0.12
(1,3787)	3:C:266:TRP:HZ3	3:C:291:TYR:HE2	8	0.12
(1,3619)	3:C:262:PHE:HZ	3:C:266:TRP:HH2	4	0.12
(1,3574)	3:C:262:PHE:HA	3:C:308:PHE:HE1	8	0.12
(1,3574)	3:C:262:PHE:HA	3:C:308:PHE:HE2	8	0.12
(1,3502)	3:C:259:PHE:HD1	3:C:272:ALA:HA	10	0.12
(1,3502)	3:C:259:PHE:HD2	3:C:272:ALA:HA	10	0.12
(1,3186)	3:C:244:LYS:HD2	3:C:290:THR:HA	1	0.12
(1,3186)	3:C:244:LYS:HD3	3:C:290:THR:HA	1	0.12
(1,312)	2:B:90:TYR:H	2:B:91:GLN:H	7	0.12
(1,2960)	3:C:227:VAL:H	3:C:227:VAL:HB	1	0.12
(1,2873)	3:C:221:HIS:H	3:C:227:VAL:HG11	10	0.12
(1,2873)	3:C:221:HIS:H	3:C:227:VAL:HG12	10	0.12
(1,2873)	3:C:221:HIS:H	3:C:227:VAL:HG13	10	0.12
(1,2873)	3:C:221:HIS:H	3:C:227:VAL:HG21	10	0.12
(1,2873)	3:C:221:HIS:H	3:C:227:VAL:HG22	10	0.12
(1,2873)	3:C:221:HIS:H	3:C:227:VAL:HG23	10	0.12
(1,2828)	3:C:219:THR:HB	3:C:221:HIS:HE1	7	0.12
(1,2799)	3:C:217:VAL:HA	3:C:221:HIS:HE1	10	0.12
(1,258)	2:B:37:GLN:HB3	2:B:42:ILE:HD11	1	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,258)	2:B:37:GLN:HB3	2:B:42:ILE:HD12	1	0.12
(1,258)	2:B:37:GLN:HB3	2:B:42:ILE:HD13	1	0.12
(1,258)	2:B:37:GLN:HB3	2:B:42:ILE:HD11	3	0.12
(1,258)	2:B:37:GLN:HB3	2:B:42:ILE:HD12	3	0.12
(1,258)	2:B:37:GLN:HB3	2:B:42:ILE:HD13	3	0.12
(1,2546)	3:C:198:ARG:HG2	3:C:199:SER:H	3	0.12
(1,2546)	3:C:198:ARG:HG3	3:C:199:SER:H	3	0.12
(1,2489)	3:C:192:LYS:HB2	3:C:201:GLY:H	8	0.12
(1,2489)	3:C:192:LYS:HB3	3:C:201:GLY:H	8	0.12
(1,2433)	3:C:189:LYS:HG2	3:C:204:PHE:HE1	1	0.12
(1,2433)	3:C:189:LYS:HG2	3:C:204:PHE:HE2	1	0.12
(1,2433)	3:C:189:LYS:HG3	3:C:204:PHE:HE1	1	0.12
(1,2433)	3:C:189:LYS:HG3	3:C:204:PHE:HE2	1	0.12
(1,2433)	3:C:189:LYS:HG2	3:C:204:PHE:HE1	10	0.12
(1,2433)	3:C:189:LYS:HG2	3:C:204:PHE:HE2	10	0.12
(1,2433)	3:C:189:LYS:HG3	3:C:204:PHE:HE1	10	0.12
(1,2433)	3:C:189:LYS:HG3	3:C:204:PHE:HE2	10	0.12
(1,2274)	3:C:182:TYR:HD1	3:C:212:SER:HA	6	0.12
(1,2274)	3:C:182:TYR:HD2	3:C:212:SER:HA	6	0.12
(1,2274)	3:C:182:TYR:HD1	3:C:212:SER:HA	8	0.12
(1,2274)	3:C:182:TYR:HD2	3:C:212:SER:HA	8	0.12
(1,2274)	3:C:182:TYR:HD1	3:C:212:SER:HA	9	0.12
(1,2274)	3:C:182:TYR:HD2	3:C:212:SER:HA	9	0.12
(1,226)	2:B:39:GLU:HA	2:B:56:LYS:HA	5	0.12
(1,2252)	3:C:181:LYS:HB2	3:C:182:TYR:HE1	3	0.12
(1,2252)	3:C:181:LYS:HB2	3:C:182:TYR:HE2	3	0.12
(1,2252)	3:C:181:LYS:HB3	3:C:182:TYR:HE1	3	0.12
(1,2252)	3:C:181:LYS:HB3	3:C:182:TYR:HE2	3	0.12
(1,2232)	3:C:179:PHE:HZ	3:C:230:PRO:HA	10	0.12
(1,2227)	3:C:179:PHE:HZ	3:C:207:PHE:HZ	4	0.12
(1,2182)	3:C:179:PHE:HA	3:C:182:TYR:HE1	2	0.12
(1,2182)	3:C:179:PHE:HA	3:C:182:TYR:HE2	2	0.12
(1,2181)	3:C:179:PHE:HA	3:C:182:TYR:HD1	2	0.12
(1,2181)	3:C:179:PHE:HA	3:C:182:TYR:HD2	2	0.12
(1,2167)	3:C:178:TYR:HE1	3:C:223:LEU:HB2	6	0.12
(1,2167)	3:C:178:TYR:HE1	3:C:223:LEU:HB3	6	0.12
(1,2167)	3:C:178:TYR:HE2	3:C:223:LEU:HB2	6	0.12
(1,2167)	3:C:178:TYR:HE2	3:C:223:LEU:HB3	6	0.12
(1,2163)	3:C:178:TYR:HE1	3:C:221:HIS:HE1	10	0.12
(1,2163)	3:C:178:TYR:HE2	3:C:221:HIS:HE1	10	0.12
(1,2128)	3:C:177:GLU:H	3:C:178:TYR:HD1	6	0.12
(1,2128)	3:C:177:GLU:H	3:C:178:TYR:HD2	6	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2081)	3:C:176:ARG:HA	3:C:176:ARG:HD2	4	0.12
(1,2081)	3:C:176:ARG:HA	3:C:176:ARG:HD3	4	0.12
(1,2007)	3:C:172:GLU:H	3:C:172:GLU:HG2	4	0.12
(1,2007)	3:C:172:GLU:H	3:C:172:GLU:HG3	4	0.12
(1,192)	2:B:77:LEU:HD11	2:B:81:ALA:HB1	10	0.12
(1,192)	2:B:77:LEU:HD11	2:B:81:ALA:HB2	10	0.12
(1,192)	2:B:77:LEU:HD11	2:B:81:ALA:HB3	10	0.12
(1,192)	2:B:77:LEU:HD12	2:B:81:ALA:HB1	10	0.12
(1,192)	2:B:77:LEU:HD12	2:B:81:ALA:HB2	10	0.12
(1,192)	2:B:77:LEU:HD12	2:B:81:ALA:HB3	10	0.12
(1,192)	2:B:77:LEU:HD13	2:B:81:ALA:HB1	10	0.12
(1,192)	2:B:77:LEU:HD13	2:B:81:ALA:HB2	10	0.12
(1,192)	2:B:77:LEU:HD13	2:B:81:ALA:HB3	10	0.12
(1,1835)	3:C:165:GLY:H	3:C:201:GLY:HA2	4	0.12
(1,1835)	3:C:165:GLY:H	3:C:201:GLY:HA3	4	0.12
(1,1660)	3:C:161:MET:HA	3:C:163:ILE:HD11	4	0.12
(1,1660)	3:C:161:MET:HA	3:C:163:ILE:HD12	4	0.12
(1,1660)	3:C:161:MET:HA	3:C:163:ILE:HD13	4	0.12
(1,1603)	2:B:72:ILE:HD11	1:A:9:A:H2	6	0.12
(1,1603)	2:B:72:ILE:HD12	1:A:9:A:H2	6	0.12
(1,1603)	2:B:72:ILE:HD13	1:A:9:A:H2	6	0.12
(1,1581)	2:B:58:MET:HE1	1:A:10:U:H5	4	0.12
(1,1581)	2:B:58:MET:HE2	1:A:10:U:H5	4	0.12
(1,1581)	2:B:58:MET:HE3	1:A:10:U:H5	4	0.12
(1,1569)	1:A:9:A:H2	2:B:71:PHE:HB2	8	0.12
(1,1569)	1:A:9:A:H2	2:B:71:PHE:HB2	10	0.12
(1,1553)	1:A:8:A:H2'	2:B:29:TYR:HE1	10	0.12
(1,1553)	1:A:8:A:H2'	2:B:29:TYR:HE2	10	0.12
(1,1465)	2:B:88:ASN:H	2:B:88:ASN:HB2	1	0.12
(1,1465)	2:B:88:ASN:H	2:B:88:ASN:HB3	1	0.12
(1,1421)	2:B:79:SER:H	2:B:82:SER:HB2	7	0.12
(1,1421)	2:B:79:SER:H	2:B:82:SER:HB3	7	0.12
(1,1396)	2:B:74:PHE:HE1	2:B:84:VAL:HG11	4	0.12
(1,1396)	2:B:74:PHE:HE1	2:B:84:VAL:HG12	4	0.12
(1,1396)	2:B:74:PHE:HE1	2:B:84:VAL:HG13	4	0.12
(1,1396)	2:B:74:PHE:HE1	2:B:84:VAL:HG21	4	0.12
(1,1396)	2:B:74:PHE:HE1	2:B:84:VAL:HG22	4	0.12
(1,1396)	2:B:74:PHE:HE1	2:B:84:VAL:HG23	4	0.12
(1,1396)	2:B:74:PHE:HE2	2:B:84:VAL:HG11	4	0.12
(1,1396)	2:B:74:PHE:HE2	2:B:84:VAL:HG12	4	0.12
(1,1396)	2:B:74:PHE:HE2	2:B:84:VAL:HG13	4	0.12
(1,1396)	2:B:74:PHE:HE2	2:B:84:VAL:HG21	4	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1396)	2:B:74:PHE:HE2	2:B:84:VAL:HG22	4	0.12
(1,1396)	2:B:74:PHE:HE2	2:B:84:VAL:HG23	4	0.12
(1,1376)	2:B:60:ASP:HB2	2:B:66:SER:HA	8	0.12
(1,1376)	2:B:60:ASP:HB3	2:B:66:SER:HA	8	0.12
(1,1375)	2:B:60:ASP:HB2	2:B:66:SER:HA	8	0.12
(1,1375)	2:B:60:ASP:HB3	2:B:66:SER:HA	8	0.12
(1,1228)	2:B:44:ASP:HB2	2:B:45:LEU:H	5	0.12
(1,1228)	2:B:44:ASP:HB3	2:B:45:LEU:H	5	0.12
(1,1224)	2:B:43:LEU:HB2	2:B:45:LEU:H	2	0.12
(1,1224)	2:B:43:LEU:HB3	2:B:45:LEU:H	2	0.12
(1,1185)	2:B:37:GLN:HE21	2:B:93:GLY:HA2	8	0.12
(1,1185)	2:B:37:GLN:HE21	2:B:93:GLY:HA3	8	0.12
(1,1185)	2:B:37:GLN:HE22	2:B:93:GLY:HA2	8	0.12
(1,1185)	2:B:37:GLN:HE22	2:B:93:GLY:HA3	8	0.12
(1,1145)	2:B:30:LEU:HD11	2:B:69:TYR:HA	6	0.12
(1,1145)	2:B:30:LEU:HD12	2:B:69:TYR:HA	6	0.12
(1,1145)	2:B:30:LEU:HD13	2:B:69:TYR:HA	6	0.12
(1,1145)	2:B:30:LEU:HD21	2:B:69:TYR:HA	6	0.12
(1,1145)	2:B:30:LEU:HD22	2:B:69:TYR:HA	6	0.12
(1,1145)	2:B:30:LEU:HD23	2:B:69:TYR:HA	6	0.12
(1,1119)	2:B:28:VAL:HB	2:B:100:GLY:HA2	9	0.12
(1,1119)	2:B:28:VAL:HB	2:B:100:GLY:HA3	9	0.12
(1,1106)	2:B:27:VAL:HG11	2:B:102:SER:H	6	0.12
(1,1106)	2:B:27:VAL:HG12	2:B:102:SER:H	6	0.12
(1,1106)	2:B:27:VAL:HG13	2:B:102:SER:H	6	0.12
(1,1106)	2:B:27:VAL:HG21	2:B:102:SER:H	6	0.12
(1,1106)	2:B:27:VAL:HG22	2:B:102:SER:H	6	0.12
(1,1106)	2:B:27:VAL:HG23	2:B:102:SER:H	6	0.12
(1,1102)	2:B:27:VAL:HG11	2:B:73:GLU:HB2	5	0.12
(1,1102)	2:B:27:VAL:HG12	2:B:73:GLU:HB2	5	0.12
(1,1102)	2:B:27:VAL:HG13	2:B:73:GLU:HB2	5	0.12
(1,1102)	2:B:27:VAL:HG21	2:B:73:GLU:HB2	5	0.12
(1,1102)	2:B:27:VAL:HG22	2:B:73:GLU:HB2	5	0.12
(1,1102)	2:B:27:VAL:HG23	2:B:73:GLU:HB2	5	0.12
(1,1022)	2:B:74:PHE:HA	2:B:75:ARG:HA	2	0.12
(1,1022)	2:B:74:PHE:HA	2:B:75:ARG:HA	3	0.12
(1,1022)	2:B:74:PHE:HA	2:B:75:ARG:HA	4	0.12
(1,1022)	2:B:74:PHE:HA	2:B:75:ARG:HA	7	0.12
(1,1022)	2:B:74:PHE:HA	2:B:75:ARG:HA	9	0.12
(3,72)	2:B:36:ASP:H	1:A:5:U:H2'	7	0.11
(2,121)	3:C:313:ILE:H	3:C:306:ILE:O	8	0.11
(1,950)	2:B:89:GLY:HA2	2:B:96:PHE:HD1	10	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,950)	2:B:89:GLY:HA2	2:B:96:PHE:HD2	10	0.11
(1,934)	2:B:45:LEU:HB2	2:B:90:TYR:HE1	7	0.11
(1,934)	2:B:45:LEU:HB2	2:B:90:TYR:HE2	7	0.11
(1,734)	2:B:76:ASP:H	2:B:76:ASP:HB3	9	0.11
(1,667)	2:B:60:ASP:H	2:B:65:ARG:HB2	1	0.11
(1,664)	2:B:60:ASP:H	2:B:67:LYS:HA	4	0.11
(1,597)	2:B:54:ASN:H	2:B:74:PHE:HA	10	0.11
(1,554)	2:B:49:VAL:H	2:B:74:PHE:HZ	1	0.11
(1,54)	2:B:33:ILE:HB	2:B:68:GLY:HA3	7	0.11
(1,538)	2:B:77:LEU:HA	2:B:79:SER:H	2	0.11
(1,53)	2:B:72:ILE:HB	2:B:73:GLU:H	2	0.11
(1,5)	2:B:80:SER:H	2:B:81:ALA:HB1	3	0.11
(1,5)	2:B:80:SER:H	2:B:81:ALA:HB2	3	0.11
(1,5)	2:B:80:SER:H	2:B:81:ALA:HB3	3	0.11
(1,474)	2:B:41:GLN:H	2:B:43:LEU:H	2	0.11
(1,474)	2:B:41:GLN:H	2:B:43:LEU:H	9	0.11
(1,467)	2:B:75:ARG:H	2:B:75:ARG:HD2	4	0.11
(1,467)	2:B:75:ARG:H	2:B:75:ARG:HD3	4	0.11
(1,4645)	3:C:246:PHE:HE1	1:A:1:U:H2'	3	0.11
(1,4645)	3:C:246:PHE:HE2	1:A:1:U:H2'	3	0.11
(1,4609)	3:C:189:LYS:HB2	1:A:7:U:H5	9	0.11
(1,4609)	3:C:189:LYS:HB3	1:A:7:U:H5	9	0.11
(1,4607)	3:C:168:TRP:HZ3	1:A:4:A:H1'	9	0.11
(1,4601)	3:C:168:TRP:HE3	1:A:4:A:H8	4	0.11
(1,4594)	3:C:168:TRP:HA	1:A:4:A:H8	3	0.11
(1,4594)	3:C:168:TRP:HA	1:A:4:A:H8	8	0.11
(1,4589)	3:C:165:GLY:HA2	1:A:5:U:H6	1	0.11
(1,4589)	3:C:165:GLY:HA3	1:A:5:U:H6	1	0.11
(1,4589)	3:C:165:GLY:HA2	1:A:5:U:H6	7	0.11
(1,4589)	3:C:165:GLY:HA3	1:A:5:U:H6	7	0.11
(1,4574)	3:C:162:PHE:HB2	1:A:5:U:H6	4	0.11
(1,4574)	3:C:162:PHE:HB3	1:A:5:U:H6	4	0.11
(1,4543)	1:A:1:U:H2'	1:A:1:U:H6	4	0.11
(1,448)	2:B:39:GLU:H	2:B:39:GLU:HG3	3	0.11
(1,4435)	3:C:309:LYS:HA	3:C:310:ASP:HB2	7	0.11
(1,4435)	3:C:309:LYS:HA	3:C:310:ASP:HB3	7	0.11
(1,4432)	3:C:309:LYS:HA	3:C:309:LYS:HE2	5	0.11
(1,4432)	3:C:309:LYS:HA	3:C:309:LYS:HE3	5	0.11
(1,4420)	3:C:308:PHE:H	3:C:310:ASP:H	2	0.11
(1,4412)	3:C:308:PHE:HE1	3:C:309:LYS:HD2	8	0.11
(1,4412)	3:C:308:PHE:HE1	3:C:309:LYS:HD3	8	0.11
(1,4412)	3:C:308:PHE:HE2	3:C:309:LYS:HD2	8	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4412)	3:C:308:PHE:HE2	3:C:309:LYS:HD3	8	0.11
(1,4408)	3:C:308:PHE:HD1	3:C:313:ILE:HB	1	0.11
(1,4408)	3:C:308:PHE:HD2	3:C:313:ILE:HB	1	0.11
(1,4408)	3:C:308:PHE:HD1	3:C:313:ILE:HB	5	0.11
(1,4408)	3:C:308:PHE:HD2	3:C:313:ILE:HB	5	0.11
(1,439)	2:B:37:GLN:HB3	2:B:38:THR:H	7	0.11
(1,436)	2:B:37:GLN:HE21	2:B:38:THR:H	9	0.11
(1,4220)	3:C:300:VAL:HA	3:C:304:LYS:H	4	0.11
(1,42)	2:B:58:MET:HE1	2:B:59:PHE:H	4	0.11
(1,42)	2:B:58:MET:HE2	2:B:59:PHE:H	4	0.11
(1,42)	2:B:58:MET:HE3	2:B:59:PHE:H	4	0.11
(1,4076)	3:C:289:VAL:H	3:C:289:VAL:HB	5	0.11
(1,405)	2:B:28:VAL:H	2:B:72:ILE:HG21	1	0.11
(1,405)	2:B:28:VAL:H	2:B:72:ILE:HG22	1	0.11
(1,405)	2:B:28:VAL:H	2:B:72:ILE:HG23	1	0.11
(1,3970)	3:C:276:LEU:HD11	3:C:278:LYS:HA	9	0.11
(1,3970)	3:C:276:LEU:HD12	3:C:278:LYS:HA	9	0.11
(1,3970)	3:C:276:LEU:HD13	3:C:278:LYS:HA	9	0.11
(1,3970)	3:C:276:LEU:HD21	3:C:278:LYS:HA	9	0.11
(1,3970)	3:C:276:LEU:HD22	3:C:278:LYS:HA	9	0.11
(1,3970)	3:C:276:LEU:HD23	3:C:278:LYS:HA	9	0.11
(1,3829)	3:C:269:ILE:HA	3:C:291:TYR:HD1	2	0.11
(1,3829)	3:C:269:ILE:HA	3:C:291:TYR:HD2	2	0.11
(1,379)	2:B:77:LEU:HB2	2:B:81:ALA:H	7	0.11
(1,3732)	3:C:266:TRP:HB2	3:C:300:VAL:HB	3	0.11
(1,3732)	3:C:266:TRP:HB3	3:C:300:VAL:HB	3	0.11
(1,3720)	3:C:265:GLN:H	3:C:265:GLN:HG2	4	0.11
(1,3720)	3:C:265:GLN:H	3:C:265:GLN:HG3	4	0.11
(1,3625)	3:C:262:PHE:HZ	3:C:308:PHE:HA	9	0.11
(1,3589)	3:C:262:PHE:HD1	3:C:266:TRP:HE3	5	0.11
(1,3589)	3:C:262:PHE:HD2	3:C:266:TRP:HE3	5	0.11
(1,356)	2:B:55:LEU:H	2:B:56:LYS:H	5	0.11
(1,348)	2:B:47:SER:HB2	2:B:48:ASN:H	8	0.11
(1,3477)	3:C:258:GLU:HG2	3:C:308:PHE:HZ	2	0.11
(1,3477)	3:C:258:GLU:HG3	3:C:308:PHE:HZ	2	0.11
(1,3363)	3:C:250:ILE:HG12	3:C:286:PHE:HA	1	0.11
(1,3363)	3:C:250:ILE:HG13	3:C:286:PHE:HA	1	0.11
(1,3232)	3:C:245:ILE:HG12	3:C:315:ILE:H	6	0.11
(1,3232)	3:C:245:ILE:HG13	3:C:315:ILE:H	6	0.11
(1,312)	2:B:90:TYR:H	2:B:91:GLN:H	6	0.11
(1,312)	2:B:90:TYR:H	2:B:91:GLN:H	8	0.11
(1,2862)	3:C:221:HIS:HD2	3:C:229:ASP:HA	2	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2734)	3:C:213:VAL:HB	3:C:214:ASP:H	6	0.11
(1,2716)	3:C:212:SER:HA	3:C:215:GLU:HG2	10	0.11
(1,2716)	3:C:212:SER:HA	3:C:215:GLU:HG3	10	0.11
(1,258)	2:B:37:GLN:HB3	2:B:42:ILE:HD11	4	0.11
(1,258)	2:B:37:GLN:HB3	2:B:42:ILE:HD12	4	0.11
(1,258)	2:B:37:GLN:HB3	2:B:42:ILE:HD13	4	0.11
(1,2538)	3:C:198:ARG:HA	3:C:198:ARG:HG2	10	0.11
(1,2538)	3:C:198:ARG:HA	3:C:198:ARG:HG3	10	0.11
(1,2524)	3:C:196:THR:HB	3:C:198:ARG:HB2	8	0.11
(1,2524)	3:C:196:THR:HB	3:C:198:ARG:HB3	8	0.11
(1,249)	2:B:46:CYS:HA	2:B:49:VAL:H	9	0.11
(1,2433)	3:C:189:LYS:HG2	3:C:204:PHE:HE1	7	0.11
(1,2433)	3:C:189:LYS:HG2	3:C:204:PHE:HE2	7	0.11
(1,2433)	3:C:189:LYS:HG3	3:C:204:PHE:HE1	7	0.11
(1,2433)	3:C:189:LYS:HG3	3:C:204:PHE:HE2	7	0.11
(1,2414)	3:C:188:LEU:HD11	3:C:205:LEU:HB2	4	0.11
(1,2414)	3:C:188:LEU:HD11	3:C:205:LEU:HB3	4	0.11
(1,2414)	3:C:188:LEU:HD12	3:C:205:LEU:HB2	4	0.11
(1,2414)	3:C:188:LEU:HD12	3:C:205:LEU:HB3	4	0.11
(1,2414)	3:C:188:LEU:HD13	3:C:205:LEU:HB2	4	0.11
(1,2414)	3:C:188:LEU:HD13	3:C:205:LEU:HB3	4	0.11
(1,2414)	3:C:188:LEU:HD21	3:C:205:LEU:HB2	4	0.11
(1,2414)	3:C:188:LEU:HD21	3:C:205:LEU:HB3	4	0.11
(1,2414)	3:C:188:LEU:HD22	3:C:205:LEU:HB2	4	0.11
(1,2414)	3:C:188:LEU:HD22	3:C:205:LEU:HB3	4	0.11
(1,2414)	3:C:188:LEU:HD23	3:C:205:LEU:HB2	4	0.11
(1,2414)	3:C:188:LEU:HD23	3:C:205:LEU:HB3	4	0.11
(1,2334)	3:C:185:VAL:HA	3:C:207:PHE:HE1	10	0.11
(1,2334)	3:C:185:VAL:HA	3:C:207:PHE:HE2	10	0.11
(1,2282)	3:C:182:TYR:HE1	3:C:215:GLU:HG2	7	0.11
(1,2282)	3:C:182:TYR:HE1	3:C:215:GLU:HG3	7	0.11
(1,2282)	3:C:182:TYR:HE2	3:C:215:GLU:HG2	7	0.11
(1,2282)	3:C:182:TYR:HE2	3:C:215:GLU:HG3	7	0.11
(1,226)	2:B:39:GLU:HA	2:B:56:LYS:HA	2	0.11
(1,2182)	3:C:179:PHE:HA	3:C:182:TYR:HE1	1	0.11
(1,2182)	3:C:179:PHE:HA	3:C:182:TYR:HE2	1	0.11
(1,2182)	3:C:179:PHE:HA	3:C:182:TYR:HE1	8	0.11
(1,2182)	3:C:179:PHE:HA	3:C:182:TYR:HE2	8	0.11
(1,2147)	3:C:178:TYR:HD1	3:C:182:TYR:HE1	1	0.11
(1,2147)	3:C:178:TYR:HD1	3:C:182:TYR:HE2	1	0.11
(1,2147)	3:C:178:TYR:HD2	3:C:182:TYR:HE1	1	0.11
(1,2147)	3:C:178:TYR:HD2	3:C:182:TYR:HE2	1	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2147)	3:C:178:TYR:HD1	3:C:182:TYR:HE1	7	0.11
(1,2147)	3:C:178:TYR:HD1	3:C:182:TYR:HE2	7	0.11
(1,2147)	3:C:178:TYR:HD2	3:C:182:TYR:HE1	7	0.11
(1,2147)	3:C:178:TYR:HD2	3:C:182:TYR:HE2	7	0.11
(1,2128)	3:C:177:GLU:H	3:C:178:TYR:HD1	7	0.11
(1,2128)	3:C:177:GLU:H	3:C:178:TYR:HD2	7	0.11
(1,2096)	3:C:176:ARG:HD2	3:C:177:GLU:HA	4	0.11
(1,2096)	3:C:176:ARG:HD3	3:C:177:GLU:HA	4	0.11
(1,209)	2:B:86:ASN:HB2	2:B:87:LEU:HD21	4	0.11
(1,209)	2:B:86:ASN:HB2	2:B:87:LEU:HD22	4	0.11
(1,209)	2:B:86:ASN:HB2	2:B:87:LEU:HD23	4	0.11
(1,2007)	3:C:172:GLU:H	3:C:172:GLU:HG2	7	0.11
(1,2007)	3:C:172:GLU:H	3:C:172:GLU:HG3	7	0.11
(1,192)	2:B:77:LEU:HD11	2:B:81:ALA:HB1	6	0.11
(1,192)	2:B:77:LEU:HD11	2:B:81:ALA:HB2	6	0.11
(1,192)	2:B:77:LEU:HD11	2:B:81:ALA:HB3	6	0.11
(1,192)	2:B:77:LEU:HD12	2:B:81:ALA:HB1	6	0.11
(1,192)	2:B:77:LEU:HD12	2:B:81:ALA:HB2	6	0.11
(1,192)	2:B:77:LEU:HD12	2:B:81:ALA:HB3	6	0.11
(1,192)	2:B:77:LEU:HD13	2:B:81:ALA:HB1	6	0.11
(1,192)	2:B:77:LEU:HD13	2:B:81:ALA:HB2	6	0.11
(1,192)	2:B:77:LEU:HD13	2:B:81:ALA:HB3	6	0.11
(1,1772)	3:C:163:ILE:HD11	3:C:204:PHE:HA	1	0.11
(1,1772)	3:C:163:ILE:HD12	3:C:204:PHE:HA	1	0.11
(1,1772)	3:C:163:ILE:HD13	3:C:204:PHE:HA	1	0.11
(1,1756)	3:C:163:ILE:HA	3:C:163:ILE:HG12	10	0.11
(1,1756)	3:C:163:ILE:HA	3:C:163:ILE:HG13	10	0.11
(1,1740)	3:C:162:PHE:HE1	3:C:239:GLN:HG2	5	0.11
(1,1740)	3:C:162:PHE:HE1	3:C:239:GLN:HG3	5	0.11
(1,1740)	3:C:162:PHE:HE2	3:C:239:GLN:HG2	5	0.11
(1,1740)	3:C:162:PHE:HE2	3:C:239:GLN:HG3	5	0.11
(1,174)	2:B:54:ASN:HB3	2:B:73:GLU:HB3	8	0.11
(1,1603)	2:B:72:ILE:HD11	1:A:9:A:H2	2	0.11
(1,1603)	2:B:72:ILE:HD12	1:A:9:A:H2	2	0.11
(1,1603)	2:B:72:ILE:HD13	1:A:9:A:H2	2	0.11
(1,1602)	2:B:71:PHE:HE1	1:A:11:A:H8	2	0.11
(1,1602)	2:B:71:PHE:HE2	1:A:11:A:H8	2	0.11
(1,1602)	2:B:71:PHE:HE1	1:A:11:A:H8	4	0.11
(1,1602)	2:B:71:PHE:HE2	1:A:11:A:H8	4	0.11
(1,1593)	2:B:69:TYR:HB3	1:A:10:U:H6	2	0.11
(1,1592)	2:B:69:TYR:HB2	1:A:10:U:H5	1	0.11
(1,1582)	2:B:58:MET:HE1	1:A:10:U:H6	1	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1582)	2:B:58:MET:HE2	1:A:10:U:H6	1	0.11
(1,1582)	2:B:58:MET:HE3	1:A:10:U:H6	1	0.11
(1,1577)	1:A:9:A:H8	2:B:71:PHE:HE2	10	0.11
(1,1558)	1:A:9:A:H2	2:B:28:VAL:H	5	0.11
(1,1484)	2:B:91:GLN:HB2	2:B:91:GLN:HE21	2	0.11
(1,1484)	2:B:91:GLN:HB3	2:B:91:GLN:HE21	2	0.11
(1,1474)	2:B:90:TYR:HB2	2:B:97:LEU:HD11	10	0.11
(1,1474)	2:B:90:TYR:HB2	2:B:97:LEU:HD12	10	0.11
(1,1474)	2:B:90:TYR:HB2	2:B:97:LEU:HD13	10	0.11
(1,1474)	2:B:90:TYR:HB2	2:B:97:LEU:HD21	10	0.11
(1,1474)	2:B:90:TYR:HB2	2:B:97:LEU:HD22	10	0.11
(1,1474)	2:B:90:TYR:HB2	2:B:97:LEU:HD23	10	0.11
(1,1347)	2:B:55:LEU:HD11	2:B:72:ILE:H	7	0.11
(1,1347)	2:B:55:LEU:HD12	2:B:72:ILE:H	7	0.11
(1,1347)	2:B:55:LEU:HD13	2:B:72:ILE:H	7	0.11
(1,1347)	2:B:55:LEU:HD21	2:B:72:ILE:H	7	0.11
(1,1347)	2:B:55:LEU:HD22	2:B:72:ILE:H	7	0.11
(1,1347)	2:B:55:LEU:HD23	2:B:72:ILE:H	7	0.11
(1,1280)	2:B:48:ASN:HD21	2:B:49:VAL:HG11	8	0.11
(1,1280)	2:B:48:ASN:HD21	2:B:49:VAL:HG12	8	0.11
(1,1280)	2:B:48:ASN:HD21	2:B:49:VAL:HG13	8	0.11
(1,1280)	2:B:48:ASN:HD21	2:B:49:VAL:HG21	8	0.11
(1,1280)	2:B:48:ASN:HD21	2:B:49:VAL:HG22	8	0.11
(1,1280)	2:B:48:ASN:HD21	2:B:49:VAL:HG23	8	0.11
(1,1280)	2:B:48:ASN:HD22	2:B:49:VAL:HG11	8	0.11
(1,1280)	2:B:48:ASN:HD22	2:B:49:VAL:HG12	8	0.11
(1,1280)	2:B:48:ASN:HD22	2:B:49:VAL:HG13	8	0.11
(1,1280)	2:B:48:ASN:HD22	2:B:49:VAL:HG21	8	0.11
(1,1280)	2:B:48:ASN:HD22	2:B:49:VAL:HG22	8	0.11
(1,1280)	2:B:48:ASN:HD22	2:B:49:VAL:HG23	8	0.11
(1,1265)	2:B:47:SER:H	2:B:48:ASN:HB2	4	0.11
(1,1265)	2:B:47:SER:H	2:B:48:ASN:HB3	4	0.11
(1,1165)	2:B:34:PRO:HB2	2:B:35:TYR:HD1	1	0.11
(1,1165)	2:B:34:PRO:HB2	2:B:35:TYR:HD2	1	0.11
(1,1165)	2:B:34:PRO:HB3	2:B:35:TYR:HD1	1	0.11
(1,1165)	2:B:34:PRO:HB3	2:B:35:TYR:HD2	1	0.11
(1,1165)	2:B:34:PRO:HB2	2:B:35:TYR:HD1	3	0.11
(1,1165)	2:B:34:PRO:HB2	2:B:35:TYR:HD2	3	0.11
(1,1165)	2:B:34:PRO:HB3	2:B:35:TYR:HD1	3	0.11
(1,1165)	2:B:34:PRO:HB3	2:B:35:TYR:HD2	3	0.11
(1,1131)	2:B:28:VAL:HG11	2:B:84:VAL:HG11	4	0.11
(1,1131)	2:B:28:VAL:HG11	2:B:84:VAL:HG12	4	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1131)	2:B:28:VAL:HG11	2:B:84:VAL:HG13	4	0.11
(1,1131)	2:B:28:VAL:HG11	2:B:84:VAL:HG21	4	0.11
(1,1131)	2:B:28:VAL:HG11	2:B:84:VAL:HG22	4	0.11
(1,1131)	2:B:28:VAL:HG11	2:B:84:VAL:HG23	4	0.11
(1,1131)	2:B:28:VAL:HG12	2:B:84:VAL:HG11	4	0.11
(1,1131)	2:B:28:VAL:HG12	2:B:84:VAL:HG12	4	0.11
(1,1131)	2:B:28:VAL:HG12	2:B:84:VAL:HG13	4	0.11
(1,1131)	2:B:28:VAL:HG12	2:B:84:VAL:HG21	4	0.11
(1,1131)	2:B:28:VAL:HG12	2:B:84:VAL:HG22	4	0.11
(1,1131)	2:B:28:VAL:HG12	2:B:84:VAL:HG23	4	0.11
(1,1131)	2:B:28:VAL:HG13	2:B:84:VAL:HG11	4	0.11
(1,1131)	2:B:28:VAL:HG13	2:B:84:VAL:HG12	4	0.11
(1,1131)	2:B:28:VAL:HG13	2:B:84:VAL:HG13	4	0.11
(1,1131)	2:B:28:VAL:HG13	2:B:84:VAL:HG21	4	0.11
(1,1131)	2:B:28:VAL:HG13	2:B:84:VAL:HG22	4	0.11
(1,1131)	2:B:28:VAL:HG13	2:B:84:VAL:HG23	4	0.11
(1,1131)	2:B:28:VAL:HG21	2:B:84:VAL:HG11	4	0.11
(1,1131)	2:B:28:VAL:HG21	2:B:84:VAL:HG12	4	0.11
(1,1131)	2:B:28:VAL:HG21	2:B:84:VAL:HG13	4	0.11
(1,1131)	2:B:28:VAL:HG21	2:B:84:VAL:HG21	4	0.11
(1,1131)	2:B:28:VAL:HG21	2:B:84:VAL:HG22	4	0.11
(1,1131)	2:B:28:VAL:HG21	2:B:84:VAL:HG23	4	0.11
(1,1131)	2:B:28:VAL:HG22	2:B:84:VAL:HG11	4	0.11
(1,1131)	2:B:28:VAL:HG22	2:B:84:VAL:HG12	4	0.11
(1,1131)	2:B:28:VAL:HG22	2:B:84:VAL:HG13	4	0.11
(1,1131)	2:B:28:VAL:HG22	2:B:84:VAL:HG21	4	0.11
(1,1131)	2:B:28:VAL:HG22	2:B:84:VAL:HG22	4	0.11
(1,1131)	2:B:28:VAL:HG22	2:B:84:VAL:HG23	4	0.11
(1,1131)	2:B:28:VAL:HG23	2:B:84:VAL:HG11	4	0.11
(1,1131)	2:B:28:VAL:HG23	2:B:84:VAL:HG12	4	0.11
(1,1131)	2:B:28:VAL:HG23	2:B:84:VAL:HG13	4	0.11
(1,1131)	2:B:28:VAL:HG23	2:B:84:VAL:HG21	4	0.11
(1,1131)	2:B:28:VAL:HG23	2:B:84:VAL:HG22	4	0.11
(1,1131)	2:B:28:VAL:HG23	2:B:84:VAL:HG23	4	0.11
(1,1022)	2:B:74:PHE:HA	2:B:75:ARG:HA	8	0.11

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

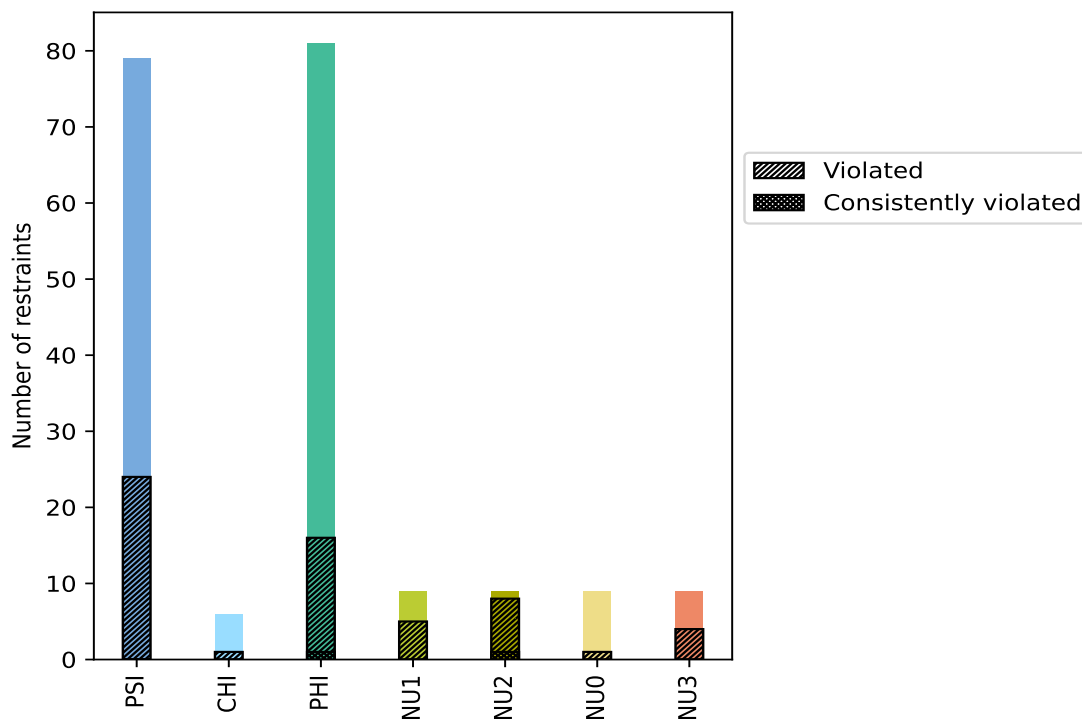
10.1 Summary of dihedral-angle violations [i](#)

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

Angle type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
PSI	79	39.1	24	30.4	11.9	0	0.0	0.0
CHI	6	3.0	1	16.7	0.5	0	0.0	0.0
PHI	81	40.1	16	19.8	7.9	1	1.2	0.5
NU1	9	4.5	5	55.6	2.5	0	0.0	0.0
NU2	9	4.5	8	88.9	4.0	1	11.1	0.5
NU0	9	4.5	1	11.1	0.5	0	0.0	0.0
NU3	9	4.5	4	44.4	2.0	0	0.0	0.0
Total	202	100.0	59	29.2	29.2	2	1.0	1.0

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

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



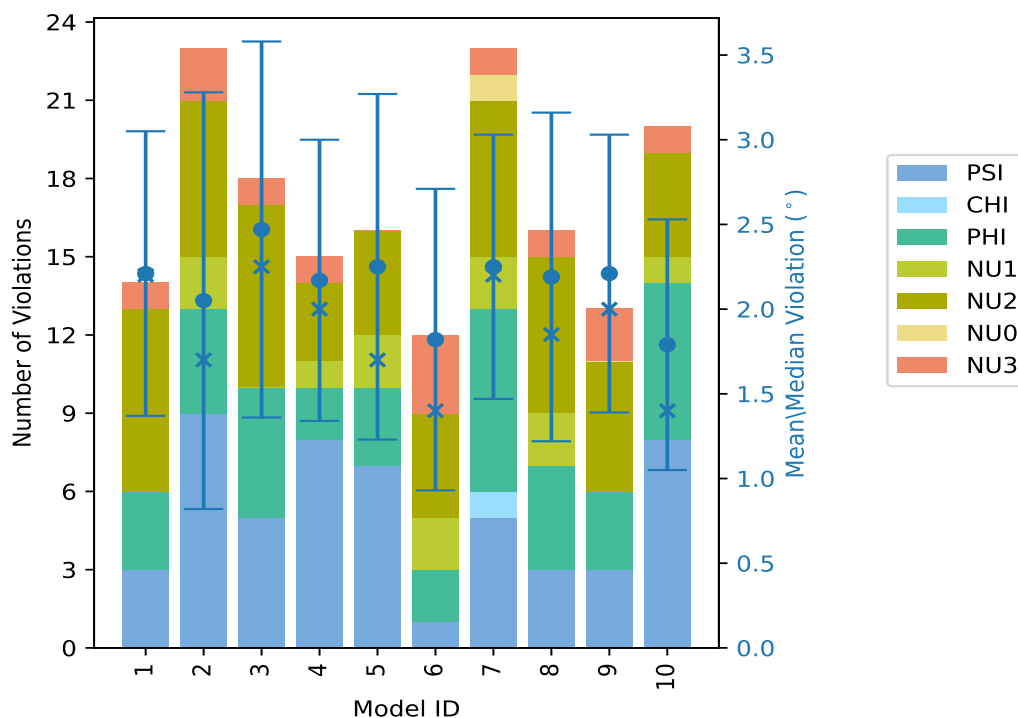
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

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

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

Model ID	Number of violations							Total	Mean (°)	Max (°)	SD (°)	Median (°)
	PSI	CHI	PHI	NU1	NU2	NU0	NU3					
1	3	0	3	0	7	0	1	14	2.21	4.0	0.84	2.2
2	9	0	4	2	6	0	2	23	2.05	6.8	1.23	1.7
3	5	0	5	0	7	0	1	18	2.47	5.5	1.11	2.25
4	8	0	2	1	3	0	1	15	2.17	3.7	0.83	2.0
5	7	0	3	2	4	0	0	16	2.25	4.2	1.02	1.7
6	1	0	2	2	4	0	3	12	1.82	4.2	0.89	1.4
7	5	1	7	2	6	1	1	23	2.25	3.9	0.78	2.2
8	3	0	4	2	6	0	1	16	2.19	4.2	0.97	1.85
9	3	0	3	0	5	0	2	13	2.21	3.9	0.82	2.0
10	8	0	6	1	4	0	1	20	1.79	4.1	0.74	1.4

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



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

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

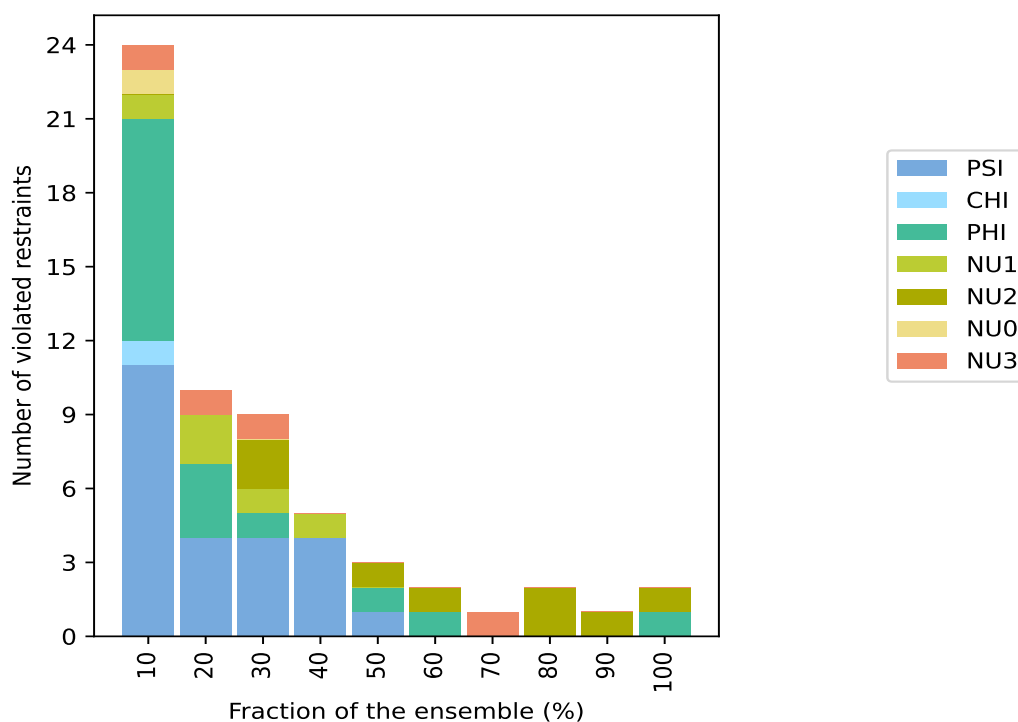
Violation analysis may find that some restraints are violated in very few models and some are violated in most of models. The following table provides this information as number of violated

restraints for a given fraction of ensemble.

PSI	Number of violated restraints							Fraction of the ensemble	
	CHI	PHI	NU1	NU2	NU0	NU3	Total	Count ¹	%
11	1	9	1	0	1	1	24	1	10.0
4	0	3	2	0	0	1	10	2	20.0
4	0	1	1	2	0	1	9	3	30.0
4	0	0	1	0	0	0	5	4	40.0
1	0	1	0	1	0	0	3	5	50.0
0	0	1	0	1	0	0	2	6	60.0
0	0	0	0	0	0	1	1	7	70.0
0	0	0	0	2	0	0	2	8	80.0
0	0	0	0	1	0	0	1	9	90.0
0	0	1	0	1	0	0	2	10	100.0

¹ Number of models with violations

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

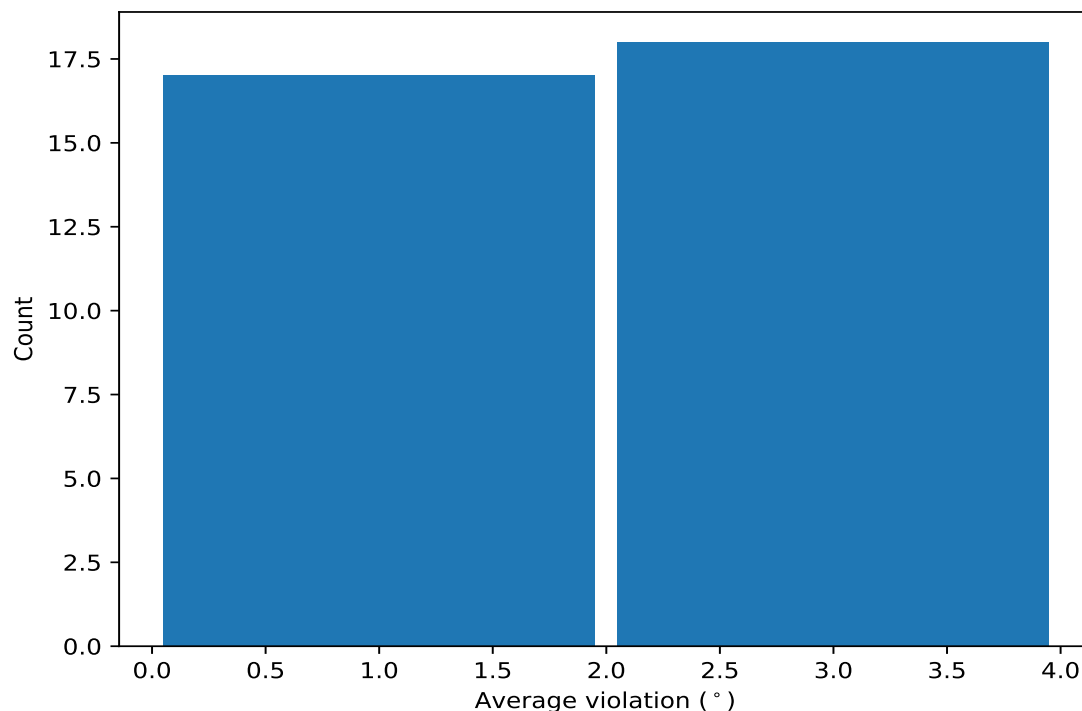


10.4 Most violated dihedral-angle restraints in the ensemble [i](#)

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

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

in the ensemble



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

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

Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,200)	3:C:302:GLN:C	3:C:303:ASN:N	3:C:303:ASN:CA	3:C:303:ASN:C	10	3.81	0.76	3.8
(1,93)	1:A:1:U:C1'	1:A:1:U:C2'	1:A:1:U:C3'	1:A:1:U:C4'	10	1.98	0.27	2.0
(1,131)	1:A:13:U:C1'	1:A:13:U:C2'	1:A:13:U:C3'	1:A:13:U:C4'	9	1.33	0.05	1.3
(1,97)	1:A:2:A:C1'	1:A:2:A:C2'	1:A:2:A:C3'	1:A:2:A:C4'	8	2.28	0.34	2.3
(1,105)	1:A:4:A:C1'	1:A:4:A:C2'	1:A:4:A:C3'	1:A:4:A:C4'	8	2.16	0.67	2.25
(1,110)	1:A:6:A:C2'	1:A:6:A:C3'	1:A:6:A:C4'	1:A:6:A:O4'	7	1.69	0.3	1.6
(1,83)	2:B:95:ARG:C	2:B:96:PHE:N	2:B:96:PHE:CA	2:B:96:PHE:C	6	2.83	0.91	3.25
(1,123)	1:A:11:A:C1'	1:A:11:A:C2'	1:A:11:A:C3'	1:A:11:A:C4'	6	1.68	0.39	1.85
(1,13)	2:B:35:TYR:N	2:B:35:TYR:CA	2:B:35:TYR:C	2:B:36:ASP:N	5	2.52	0.91	2.6
(1,137)	3:C:166:LEU:C	3:C:167:ASN:N	3:C:167:ASN:CA	3:C:167:ASN:C	5	1.56	0.39	1.4
(1,113)	1:A:7:U:C1'	1:A:7:U:C2'	1:A:7:U:C3'	1:A:7:U:C4'	5	1.42	0.31	1.3
(1,202)	3:C:308:PHE:N	3:C:308:PHE:CA	3:C:308:PHE:C	3:C:309:LYS:N	4	3.68	2.05	3.1
(1,82)	2:B:95:ARG:N	2:B:95:ARG:CA	2:B:95:ARG:C	2:B:96:PHE:N	4	3.05	1.08	3.55
(1,173)	3:C:229:ASP:N	3:C:229:ASP:CA	3:C:229:ASP:C	3:C:230:PRO:N	4	2.33	0.38	2.45
(1,155)	3:C:199:SER:N	3:C:199:SER:CA	3:C:199:SER:C	3:C:200:ARG:N	4	2.12	0.98	1.9
(1,96)	1:A:2:A:O4'	1:A:2:A:C1'	1:A:2:A:C2'	1:A:2:A:C3'	4	1.72	0.54	1.55
(1,157)	3:C:201:GLY:N	3:C:201:GLY:CA	3:C:201:GLY:C	3:C:202:PHE:N	3	3.0	0.78	2.9
(1,104)	1:A:4:A:O4'	1:A:4:A:C1'	1:A:4:A:C2'	1:A:4:A:C3'	3	2.23	0.57	2.3
(1,23)	2:B:43:LEU:N	2:B:43:LEU:CA	2:B:43:LEU:C	2:B:44:ASP:N	3	2.03	0.6	2.3
(1,101)	1:A:3:U:C1'	1:A:3:U:C2'	1:A:3:U:C3'	1:A:3:U:C4'	3	1.97	0.54	2.3

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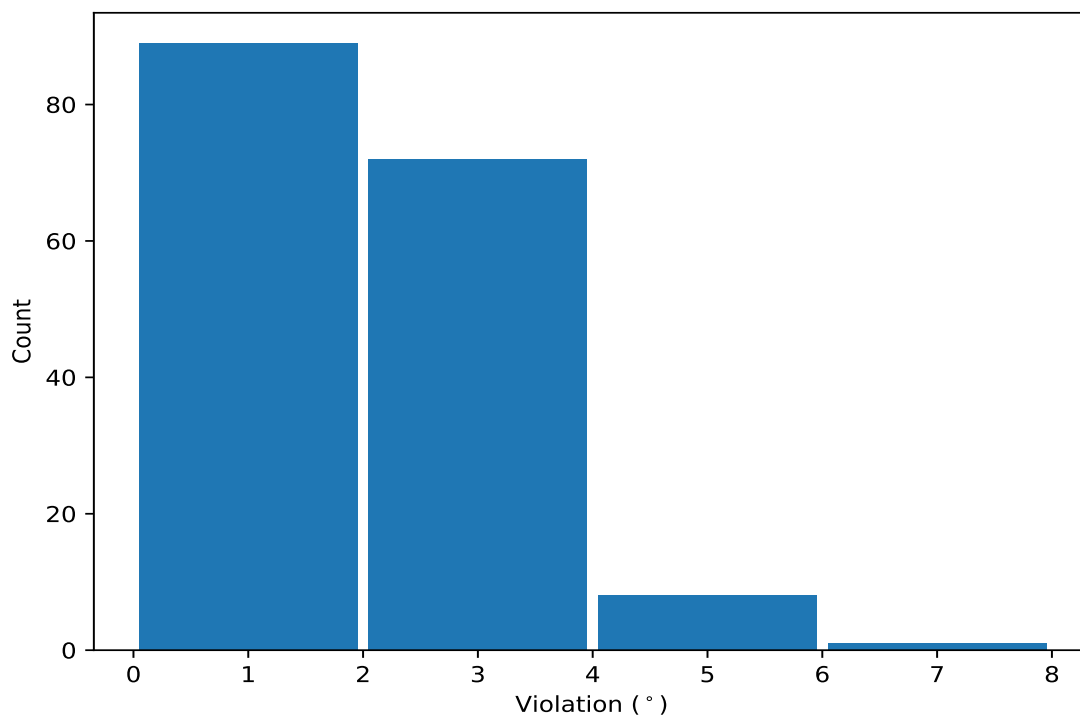
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,21)	2:B:42:ILE:N	2:B:42:ILE:CA	2:B:42:ILE:C	2:B:43:LEU:N	3	1.93	0.61	1.9
(1,169)	3:C:227:VAL:N	3:C:227:VAL:CA	3:C:227:VAL:C	3:C:228:ILE:N	3	1.57	0.52	1.3
(1,109)	1:A:6:A:C1'	1:A:6:A:C2'	1:A:6:A:C3'	1:A:6:A:C4'	3	1.5	0.29	1.4
(1,11)	2:B:31:GLY:C	2:B:32:SER:N	2:B:32:SER:CA	2:B:32:SER:C	3	1.37	0.12	1.4
(1,102)	1:A:3:U:C2'	1:A:3:U:C3'	1:A:3:U:C4'	1:A:3:U:O4'	3	1.17	0.05	1.2
(1,144)	3:C:173:ASP:C	3:C:174:ASN:N	3:C:174:ASN:CA	3:C:174:ASN:C	2	3.5	0.7	3.5
(1,41)	2:B:59:PHE:C	2:B:60:ASP:N	2:B:60:ASP:CA	2:B:60:ASP:C	2	3.15	0.45	3.15
(1,179)	3:C:241:LYS:N	3:C:241:LYS:CA	3:C:241:LYS:C	3:C:242:THR:N	2	2.3	1.1	2.3
(1,156)	3:C:200:ARG:C	3:C:201:GLY:N	3:C:201:GLY:CA	3:C:201:GLY:C	2	2.2	0.1	2.2
(1,122)	1:A:11:A:O4'	1:A:11:A:C1'	1:A:11:A:C2'	1:A:11:A:C3'	2	2.15	0.85	2.15
(1,67)	2:B:83:ALA:N	2:B:83:ALA:CA	2:B:83:ALA:C	2:B:84:VAL:N	2	2.1	0.2	2.1
(1,139)	3:C:171:THR:N	3:C:171:THR:CA	3:C:171:THR:C	3:C:172:GLU:N	2	1.6	0.2	1.6
(1,126)	1:A:12:A:O4'	1:A:12:A:C1'	1:A:12:A:C2'	1:A:12:A:C3'	2	1.45	0.05	1.45
(1,98)	1:A:2:A:C2'	1:A:2:A:C3'	1:A:2:A:C4'	1:A:2:A:O4'	2	1.3	0.1	1.3
(1,149)	3:C:182:TYR:N	3:C:182:TYR:CA	3:C:182:TYR:C	3:C:183:GLY:N	2	1.15	0.05	1.15

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

10.5 All violated dihedral-angle restraints [i](#)

10.5.1 Histogram : Distribution of violations [i](#)

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



10.5.2 Table: All violated dihedral-angle restraints [\(i\)](#)

The following table lists the absolute value of the violation for each restraint in the ensemble sorted by its value. The Key (restraint list ID, restraint ID) is the unique identifier for a given restraint.

Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,202)	3:C:308:PHE:N	3:C:308:PHE:CA	3:C:308:PHE:C	3:C:309:LYS:N	2	6.8
(1,200)	3:C:302:GLN:C	3:C:303:ASN:N	3:C:303:ASN:CA	3:C:303:ASN:C	3	5.5
(1,89)	2:B:99:CYS:N	2:B:99:CYS:CA	2:B:99:CYS:C	2:B:100:GLY:N	3	4.3
(1,202)	3:C:308:PHE:N	3:C:308:PHE:CA	3:C:308:PHE:C	3:C:309:LYS:N	8	4.2
(1,200)	3:C:302:GLN:C	3:C:303:ASN:N	3:C:303:ASN:CA	3:C:303:ASN:C	5	4.2
(1,200)	3:C:302:GLN:C	3:C:303:ASN:N	3:C:303:ASN:CA	3:C:303:ASN:C	6	4.2
(1,144)	3:C:173:ASP:C	3:C:174:ASN:N	3:C:174:ASN:CA	3:C:174:ASN:C	3	4.2
(1,200)	3:C:302:GLN:C	3:C:303:ASN:N	3:C:303:ASN:CA	3:C:303:ASN:C	10	4.1
(1,157)	3:C:201:GLY:N	3:C:201:GLY:CA	3:C:201:GLY:C	3:C:202:PHE:N	1	4.0
(1,82)	2:B:95:ARG:N	2:B:95:ARG:CA	2:B:95:ARG:C	2:B:96:PHE:N	5	3.9
(1,43)	2:B:61:PRO:C	2:B:62:GLN:N	2:B:62:GLN:CA	2:B:62:GLN:C	7	3.9
(1,200)	3:C:302:GLN:C	3:C:303:ASN:N	3:C:303:ASN:CA	3:C:303:ASN:C	9	3.9
(1,83)	2:B:95:ARG:C	2:B:96:PHE:N	2:B:96:PHE:CA	2:B:96:PHE:C	5	3.8
(1,200)	3:C:302:GLN:C	3:C:303:ASN:N	3:C:303:ASN:CA	3:C:303:ASN:C	1	3.7
(1,13)	2:B:35:TYR:N	2:B:35:TYR:CA	2:B:35:TYR:C	2:B:36:ASP:N	4	3.7
(1,82)	2:B:95:ARG:N	2:B:95:ARG:CA	2:B:95:ARG:C	2:B:96:PHE:N	2	3.6
(1,41)	2:B:59:PHE:C	2:B:60:ASP:N	2:B:60:ASP:CA	2:B:60:ASP:C	7	3.6
(1,200)	3:C:302:GLN:C	3:C:303:ASN:N	3:C:303:ASN:CA	3:C:303:ASN:C	4	3.6
(1,155)	3:C:199:SER:N	3:C:199:SER:CA	3:C:199:SER:C	3:C:200:ARG:N	7	3.6
(1,83)	2:B:95:ARG:C	2:B:96:PHE:N	2:B:96:PHE:CA	2:B:96:PHE:C	8	3.5
(1,82)	2:B:95:ARG:N	2:B:95:ARG:CA	2:B:95:ARG:C	2:B:96:PHE:N	8	3.5
(1,83)	2:B:95:ARG:C	2:B:96:PHE:N	2:B:96:PHE:CA	2:B:96:PHE:C	9	3.4
(1,200)	3:C:302:GLN:C	3:C:303:ASN:N	3:C:303:ASN:CA	3:C:303:ASN:C	8	3.4
(1,179)	3:C:241:LYS:N	3:C:241:LYS:CA	3:C:241:LYS:C	3:C:242:THR:N	4	3.4
(1,13)	2:B:35:TYR:N	2:B:35:TYR:CA	2:B:35:TYR:C	2:B:36:ASP:N	7	3.3
(1,106)	1:A:4:A:C2'	1:A:4:A:C3'	1:A:4:A:C4'	1:A:4:A:O4'	6	3.2
(1,83)	2:B:95:ARG:C	2:B:96:PHE:N	2:B:96:PHE:CA	2:B:96:PHE:C	2	3.1
(1,195)	3:C:276:LEU:N	3:C:276:LEU:CA	3:C:276:LEU:C	3:C:277:ASP:N	9	3.1
(1,105)	1:A:4:A:C1'	1:A:4:A:C2'	1:A:4:A:C3'	1:A:4:A:C4'	3	3.1
(1,200)	3:C:302:GLN:C	3:C:303:ASN:N	3:C:303:ASN:CA	3:C:303:ASN:C	2	3.0
(1,122)	1:A:11:A:O4'	1:A:11:A:C1'	1:A:11:A:C2'	1:A:11:A:C3'	7	3.0
(1,157)	3:C:201:GLY:N	3:C:201:GLY:CA	3:C:201:GLY:C	3:C:202:PHE:N	5	2.9
(1,105)	1:A:4:A:C1'	1:A:4:A:C2'	1:A:4:A:C3'	1:A:4:A:C4'	5	2.9
(1,104)	1:A:4:A:O4'	1:A:4:A:C1'	1:A:4:A:C2'	1:A:4:A:C3'	4	2.9
(1,144)	3:C:173:ASP:C	3:C:174:ASN:N	3:C:174:ASN:CA	3:C:174:ASN:C	10	2.8
(1,97)	1:A:2:A:C1'	1:A:2:A:C2'	1:A:2:A:C3'	1:A:2:A:C4'	1	2.7
(1,97)	1:A:2:A:C1'	1:A:2:A:C2'	1:A:2:A:C3'	1:A:2:A:C4'	8	2.7
(1,41)	2:B:59:PHE:C	2:B:60:ASP:N	2:B:60:ASP:CA	2:B:60:ASP:C	5	2.7
(1,21)	2:B:42:ILE:N	2:B:42:ILE:CA	2:B:42:ILE:C	2:B:43:LEU:N	7	2.7
(1,173)	3:C:229:ASP:N	3:C:229:ASP:CA	3:C:229:ASP:C	3:C:230:PRO:N	5	2.7
(1,96)	1:A:2:A:O4'	1:A:2:A:C1'	1:A:2:A:C2'	1:A:2:A:C3'	2	2.6
(1,23)	2:B:43:LEU:N	2:B:43:LEU:CA	2:B:43:LEU:C	2:B:44:ASP:N	3	2.6
(1,13)	2:B:35:TYR:N	2:B:35:TYR:CA	2:B:35:TYR:C	2:B:36:ASP:N	9	2.6
(1,105)	1:A:4:A:C1'	1:A:4:A:C2'	1:A:4:A:C3'	1:A:4:A:C4'	9	2.6
(1,97)	1:A:2:A:C1'	1:A:2:A:C2'	1:A:2:A:C3'	1:A:2:A:C4'	3	2.5
(1,39)	2:B:58:MET:N	2:B:58:MET:CA	2:B:58:MET:C	2:B:59:PHE:N	10	2.5
(1,200)	3:C:302:GLN:C	3:C:303:ASN:N	3:C:303:ASN:CA	3:C:303:ASN:C	7	2.5

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,173)	3:C:229:ASP:N	3:C:229:ASP:CA	3:C:229:ASP:C	3:C:230:PRO:N	10	2.5
(1,105)	1:A:4:A:C1'	1:A:4:A:C2'	1:A:4:A:C3'	1:A:4:A:C4'	1	2.5
(1,97)	1:A:2:A:C1'	1:A:2:A:C2'	1:A:2:A:C3'	1:A:2:A:C4'	7	2.4
(1,93)	1:A:1:U:C1'	1:A:1:U:C2'	1:A:1:U:C3'	1:A:1:U:C4'	1	2.4
(1,93)	1:A:1:U:C1'	1:A:1:U:C2'	1:A:1:U:C3'	1:A:1:U:C4'	3	2.4
(1,173)	3:C:229:ASP:N	3:C:229:ASP:CA	3:C:229:ASP:C	3:C:230:PRO:N	1	2.4
(1,155)	3:C:199:SER:N	3:C:199:SER:CA	3:C:199:SER:C	3:C:200:ARG:N	2	2.4
(1,101)	1:A:3:U:C1'	1:A:3:U:C2'	1:A:3:U:C3'	1:A:3:U:C4'	8	2.4
(1,67)	2:B:83:ALA:N	2:B:83:ALA:CA	2:B:83:ALA:C	2:B:84:VAL:N	10	2.3
(1,6)	2:B:28:VAL:N	2:B:28:VAL:CA	2:B:28:VAL:C	2:B:29:TYR:N	3	2.3
(1,23)	2:B:43:LEU:N	2:B:43:LEU:CA	2:B:43:LEU:C	2:B:44:ASP:N	7	2.3
(1,190)	3:C:273:GLN:C	3:C:274:LEU:N	3:C:274:LEU:CA	3:C:274:LEU:C	4	2.3
(1,169)	3:C:227:VAL:N	3:C:227:VAL:CA	3:C:227:VAL:C	3:C:228:ILE:N	7	2.3
(1,156)	3:C:200:ARG:C	3:C:201:GLY:N	3:C:201:GLY:CA	3:C:201:GLY:C	3	2.3
(1,110)	1:A:6:A:C2'	1:A:6:A:C3'	1:A:6:A:C4'	1:A:6:A:O4'	1	2.3
(1,104)	1:A:4:A:O4'	1:A:4:A:C1'	1:A:4:A:C2'	1:A:4:A:C3'	8	2.3
(1,101)	1:A:3:U:C1'	1:A:3:U:C2'	1:A:3:U:C3'	1:A:3:U:C4'	7	2.3
(1,97)	1:A:2:A:C1'	1:A:2:A:C2'	1:A:2:A:C3'	1:A:2:A:C4'	2	2.2
(1,182)	3:C:261:GLU:C	3:C:262:PHE:N	3:C:262:PHE:CA	3:C:262:PHE:C	7	2.2
(1,137)	3:C:166:LEU:C	3:C:167:ASN:N	3:C:167:ASN:CA	3:C:167:ASN:C	3	2.2
(1,93)	1:A:1:U:C1'	1:A:1:U:C2'	1:A:1:U:C3'	1:A:1:U:C4'	4	2.1
(1,165)	3:C:213:VAL:N	3:C:213:VAL:CA	3:C:213:VAL:C	3:C:214:ASP:N	2	2.1
(1,157)	3:C:201:GLY:N	3:C:201:GLY:CA	3:C:201:GLY:C	3:C:202:PHE:N	4	2.1
(1,156)	3:C:200:ARG:C	3:C:201:GLY:N	3:C:201:GLY:CA	3:C:201:GLY:C	10	2.1
(1,123)	1:A:11:A:C1'	1:A:11:A:C2'	1:A:11:A:C3'	1:A:11:A:C4'	1	2.1
(1,97)	1:A:2:A:C1'	1:A:2:A:C2'	1:A:2:A:C3'	1:A:2:A:C4'	9	2.0
(1,97)	1:A:2:A:C1'	1:A:2:A:C2'	1:A:2:A:C3'	1:A:2:A:C4'	10	2.0
(1,93)	1:A:1:U:C1'	1:A:1:U:C2'	1:A:1:U:C3'	1:A:1:U:C4'	6	2.0
(1,93)	1:A:1:U:C1'	1:A:1:U:C2'	1:A:1:U:C3'	1:A:1:U:C4'	7	2.0
(1,93)	1:A:1:U:C1'	1:A:1:U:C2'	1:A:1:U:C3'	1:A:1:U:C4'	8	2.0
(1,202)	3:C:308:PHE:N	3:C:308:PHE:CA	3:C:308:PHE:C	3:C:309:LYS:N	9	2.0
(1,123)	1:A:11:A:C1'	1:A:11:A:C2'	1:A:11:A:C3'	1:A:11:A:C4'	7	2.0
(1,113)	1:A:7:U:C1'	1:A:7:U:C2'	1:A:7:U:C3'	1:A:7:U:C4'	1	2.0
(1,105)	1:A:4:A:C1'	1:A:4:A:C2'	1:A:4:A:C3'	1:A:4:A:C4'	4	2.0
(1,93)	1:A:1:U:C1'	1:A:1:U:C2'	1:A:1:U:C3'	1:A:1:U:C4'	9	1.9
(1,93)	1:A:1:U:C1'	1:A:1:U:C2'	1:A:1:U:C3'	1:A:1:U:C4'	10	1.9
(1,90)	2:B:104:ASN:C	2:B:105:SER:N	2:B:105:SER:CA	2:B:105:SER:C	2	1.9
(1,88)	2:B:98:LYS:C	2:B:99:CYS:N	2:B:99:CYS:CA	2:B:99:CYS:C	3	1.9
(1,83)	2:B:95:ARG:C	2:B:96:PHE:N	2:B:96:PHE:CA	2:B:96:PHE:C	1	1.9
(1,67)	2:B:83:ALA:N	2:B:83:ALA:CA	2:B:83:ALA:C	2:B:84:VAL:N	2	1.9
(1,42)	2:B:60:ASP:N	2:B:60:ASP:CA	2:B:60:ASP:C	2:B:61:PRO:N	4	1.9
(1,21)	2:B:42:ILE:N	2:B:42:ILE:CA	2:B:42:ILE:C	2:B:43:LEU:N	4	1.9
(1,158)	3:C:201:GLY:C	3:C:202:PHE:N	3:C:202:PHE:CA	3:C:202:PHE:C	7	1.9
(1,123)	1:A:11:A:C1'	1:A:11:A:C2'	1:A:11:A:C3'	1:A:11:A:C4'	9	1.9
(1,110)	1:A:6:A:C2'	1:A:6:A:C3'	1:A:6:A:C4'	1:A:6:A:O4'	7	1.9
(1,109)	1:A:6:A:C1'	1:A:6:A:C2'	1:A:6:A:C3'	1:A:6:A:C4'	3	1.9
(1,139)	3:C:171:THR:N	3:C:171:THR:CA	3:C:171:THR:C	3:C:172:GLU:N	10	1.8
(1,137)	3:C:166:LEU:C	3:C:167:ASN:N	3:C:167:ASN:CA	3:C:167:ASN:C	2	1.8
(1,123)	1:A:11:A:C1'	1:A:11:A:C2'	1:A:11:A:C3'	1:A:11:A:C4'	3	1.8
(1,97)	1:A:2:A:C1'	1:A:2:A:C2'	1:A:2:A:C3'	1:A:2:A:C4'	5	1.7
(1,96)	1:A:2:A:O4'	1:A:2:A:C1'	1:A:2:A:C2'	1:A:2:A:C3'	5	1.7

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,202)	3:C:308:PHE:N	3:C:308:PHE:CA	3:C:308:PHE:C	3:C:309:LYS:N	3	1.7
(1,173)	3:C:229:ASP:N	3:C:229:ASP:CA	3:C:229:ASP:C	3:C:230:PRO:N	6	1.7
(1,161)	3:C:211:SER:N	3:C:211:SER:CA	3:C:211:SER:C	3:C:212:SER:N	2	1.7
(1,119)	1:A:12:A:O4'	1:A:12:A:C1'	1:A:12:A:N9	1:A:12:A:C4	7	1.7
(1,110)	1:A:6:A:C2'	1:A:6:A:C3'	1:A:6:A:C4'	1:A:6:A:O4'	8	1.7
(1,105)	1:A:4:A:C1'	1:A:4:A:C2'	1:A:4:A:C3'	1:A:4:A:C4'	8	1.7
(1,93)	1:A:1:U:C1'	1:A:1:U:C2'	1:A:1:U:C3'	1:A:1:U:C4'	5	1.6
(1,13)	2:B:35:TYR:N	2:B:35:TYR:CA	2:B:35:TYR:C	2:B:36:ASP:N	3	1.6
(1,110)	1:A:6:A:C2'	1:A:6:A:C3'	1:A:6:A:C4'	1:A:6:A:O4'	3	1.6
(1,93)	1:A:1:U:C1'	1:A:1:U:C2'	1:A:1:U:C3'	1:A:1:U:C4'	2	1.5
(1,53)	2:B:72:ILE:C	2:B:73:GLU:N	2:B:73:GLU:CA	2:B:73:GLU:C	7	1.5
(1,187)	3:C:265:GLN:N	3:C:265:GLN:CA	3:C:265:GLN:C	3:C:266:TRP:N	4	1.5
(1,126)	1:A:12:A:O4'	1:A:12:A:C1'	1:A:12:A:C2'	1:A:12:A:C3'	5	1.5
(1,110)	1:A:6:A:C2'	1:A:6:A:C3'	1:A:6:A:C4'	1:A:6:A:O4'	2	1.5
(1,11)	2:B:31:GLY:C	2:B:32:SER:N	2:B:32:SER:CA	2:B:32:SER:C	6	1.5
(1,104)	1:A:4:A:O4'	1:A:4:A:C1'	1:A:4:A:C2'	1:A:4:A:C3'	2	1.5
(1,98)	1:A:2:A:C2'	1:A:2:A:C3'	1:A:2:A:C4'	1:A:2:A:O4'	4	1.4
(1,96)	1:A:2:A:O4'	1:A:2:A:C1'	1:A:2:A:C2'	1:A:2:A:C3'	10	1.4
(1,170)	3:C:227:VAL:C	3:C:228:ILE:N	3:C:228:ILE:CA	3:C:228:ILE:C	10	1.4
(1,155)	3:C:199:SER:N	3:C:199:SER:CA	3:C:199:SER:C	3:C:200:ARG:N	8	1.4
(1,139)	3:C:171:THR:N	3:C:171:THR:CA	3:C:171:THR:C	3:C:172:GLU:N	5	1.4
(1,137)	3:C:166:LEU:C	3:C:167:ASN:N	3:C:167:ASN:CA	3:C:167:ASN:C	7	1.4
(1,131)	1:A:13:U:C1'	1:A:13:U:C2'	1:A:13:U:C3'	1:A:13:U:C4'	2	1.4
(1,131)	1:A:13:U:C1'	1:A:13:U:C2'	1:A:13:U:C3'	1:A:13:U:C4'	8	1.4
(1,131)	1:A:13:U:C1'	1:A:13:U:C2'	1:A:13:U:C3'	1:A:13:U:C4'	10	1.4
(1,13)	2:B:35:TYR:N	2:B:35:TYR:CA	2:B:35:TYR:C	2:B:36:ASP:N	5	1.4
(1,126)	1:A:12:A:O4'	1:A:12:A:C1'	1:A:12:A:C2'	1:A:12:A:C3'	6	1.4
(1,121)	1:A:11:A:C4'	1:A:11:A:O4'	1:A:11:A:C1'	1:A:11:A:C2'	7	1.4
(1,113)	1:A:7:U:C1'	1:A:7:U:C2'	1:A:7:U:C3'	1:A:7:U:C4'	6	1.4
(1,110)	1:A:6:A:C2'	1:A:6:A:C3'	1:A:6:A:C4'	1:A:6:A:O4'	6	1.4
(1,110)	1:A:6:A:C2'	1:A:6:A:C3'	1:A:6:A:C4'	1:A:6:A:O4'	9	1.4
(1,11)	2:B:31:GLY:C	2:B:32:SER:N	2:B:32:SER:CA	2:B:32:SER:C	9	1.4
(1,109)	1:A:6:A:C1'	1:A:6:A:C2'	1:A:6:A:C3'	1:A:6:A:C4'	6	1.4
(1,83)	2:B:95:ARG:C	2:B:96:PHE:N	2:B:96:PHE:CA	2:B:96:PHE:C	10	1.3
(1,169)	3:C:227:VAL:N	3:C:227:VAL:CA	3:C:227:VAL:C	3:C:228:ILE:N	10	1.3
(1,167)	3:C:223:LEU:N	3:C:223:LEU:CA	3:C:223:LEU:C	3:C:224:ASP:N	2	1.3
(1,137)	3:C:166:LEU:C	3:C:167:ASN:N	3:C:167:ASN:CA	3:C:167:ASN:C	10	1.3
(1,131)	1:A:13:U:C1'	1:A:13:U:C2'	1:A:13:U:C3'	1:A:13:U:C4'	1	1.3
(1,131)	1:A:13:U:C1'	1:A:13:U:C2'	1:A:13:U:C3'	1:A:13:U:C4'	3	1.3
(1,131)	1:A:13:U:C1'	1:A:13:U:C2'	1:A:13:U:C3'	1:A:13:U:C4'	4	1.3
(1,131)	1:A:13:U:C1'	1:A:13:U:C2'	1:A:13:U:C3'	1:A:13:U:C4'	5	1.3
(1,131)	1:A:13:U:C1'	1:A:13:U:C2'	1:A:13:U:C3'	1:A:13:U:C4'	6	1.3
(1,131)	1:A:13:U:C1'	1:A:13:U:C2'	1:A:13:U:C3'	1:A:13:U:C4'	9	1.3
(1,122)	1:A:11:A:O4'	1:A:11:A:C1'	1:A:11:A:C2'	1:A:11:A:C3'	8	1.3
(1,113)	1:A:7:U:C1'	1:A:7:U:C2'	1:A:7:U:C3'	1:A:7:U:C4'	3	1.3
(1,113)	1:A:7:U:C1'	1:A:7:U:C2'	1:A:7:U:C3'	1:A:7:U:C4'	7	1.3
(1,105)	1:A:4:A:C1'	1:A:4:A:C2'	1:A:4:A:C3'	1:A:4:A:C4'	7	1.3
(1,98)	1:A:2:A:C2'	1:A:2:A:C3'	1:A:2:A:C4'	1:A:2:A:O4'	6	1.2
(1,96)	1:A:2:A:O4'	1:A:2:A:C1'	1:A:2:A:C2'	1:A:2:A:C3'	7	1.2
(1,82)	2:B:95:ARG:N	2:B:95:ARG:CA	2:B:95:ARG:C	2:B:96:PHE:N	1	1.2
(1,23)	2:B:43:LEU:N	2:B:43:LEU:CA	2:B:43:LEU:C	2:B:44:ASP:N	4	1.2

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,21)	2:B:42:ILE:N	2:B:42:ILE:CA	2:B:42:ILE:C	2:B:43:LEU:N	10	1.2
(1,201)	3:C:307:ASP:C	3:C:308:PHE:N	3:C:308:PHE:CA	3:C:308:PHE:C	8	1.2
(1,179)	3:C:241:LYS:N	3:C:241:LYS:CA	3:C:241:LYS:C	3:C:242:THR:N	5	1.2
(1,149)	3:C:182:TYR:N	3:C:182:TYR:CA	3:C:182:TYR:C	3:C:183:GLY:N	4	1.2
(1,123)	1:A:11:A:C1'	1:A:11:A:C2'	1:A:11:A:C3'	1:A:11:A:C4'	10	1.2
(1,11)	2:B:31:GLY:C	2:B:32:SER:N	2:B:32:SER:CA	2:B:32:SER:C	1	1.2
(1,109)	1:A:6:A:C1'	1:A:6:A:C2'	1:A:6:A:C3'	1:A:6:A:C4'	8	1.2
(1,105)	1:A:4:A:C1'	1:A:4:A:C2'	1:A:4:A:C3'	1:A:4:A:C4'	2	1.2
(1,102)	1:A:3:U:C2'	1:A:3:U:C3'	1:A:3:U:C4'	1:A:3:U:O4'	2	1.2
(1,102)	1:A:3:U:C2'	1:A:3:U:C3'	1:A:3:U:C4'	1:A:3:U:O4'	9	1.2
(1,101)	1:A:3:U:C1'	1:A:3:U:C2'	1:A:3:U:C3'	1:A:3:U:C4'	1	1.2
(1,69)	2:B:84:VAL:N	2:B:84:VAL:CA	2:B:84:VAL:C	2:B:85:ARG:N	2	1.1
(1,2)	2:B:25:SER:N	2:B:25:SER:CA	2:B:25:SER:C	2:B:26:ARG:N	2	1.1
(1,169)	3:C:227:VAL:N	3:C:227:VAL:CA	3:C:227:VAL:C	3:C:228:ILE:N	5	1.1
(1,155)	3:C:199:SER:N	3:C:199:SER:CA	3:C:199:SER:C	3:C:200:ARG:N	10	1.1
(1,149)	3:C:182:TYR:N	3:C:182:TYR:CA	3:C:182:TYR:C	3:C:183:GLY:N	10	1.1
(1,137)	3:C:166:LEU:C	3:C:167:ASN:N	3:C:167:ASN:CA	3:C:167:ASN:C	8	1.1
(1,123)	1:A:11:A:C1'	1:A:11:A:C2'	1:A:11:A:C3'	1:A:11:A:C4'	2	1.1
(1,113)	1:A:7:U:C1'	1:A:7:U:C2'	1:A:7:U:C3'	1:A:7:U:C4'	2	1.1
(1,112)	1:A:7:U:O4'	1:A:7:U:C1'	1:A:7:U:C2'	1:A:7:U:C3'	6	1.1
(1,102)	1:A:3:U:C2'	1:A:3:U:C3'	1:A:3:U:C4'	1:A:3:U:O4'	10	1.1