



# Full wwPDB NMR Structure Validation Report ⓘ

Jun 3, 2023 – 11:54 PM EDT

PDB ID : 2K5J  
BMRB ID : 15839  
Title : Solution structure of protein yiiF from *Shigella flexneri* serotype 5b (strain 8401) . Northeast Structural Genomics Consortium target sft1  
Authors : Wu, Y.; Singarapu, K.; Semesi, A.; Yee, A.; Bansal, S.; Prestegard, J.; Arrow-smith, C.; Szyperski, T.; Montelione, G.T.; Northeast Structural Genomics Consortium (NESG)  
Deposited on : 2008-06-28

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We welcome your comments at [validation@mail.wwpdb.org](mailto: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>.

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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

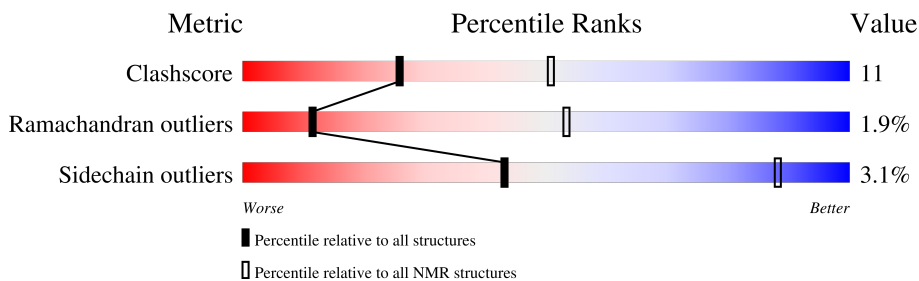
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*SOLUTION NMR*

The overall completeness of chemical shifts assignment is 85%.

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

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  $\geq 3$ , 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	80	
1	B	80	

## 2 Ensemble composition and analysis

This entry contains 20 models. Model 16 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *lowest energy*.

The following residues are included in the computation of the global validation metrics.

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:9-A:48, B:209-B:249 (81)	0.62	16

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 3 clusters and 2 single-model clusters were found.

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

### 3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 2602 atoms, of which 1306 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called uncharacterized protein yiiF.

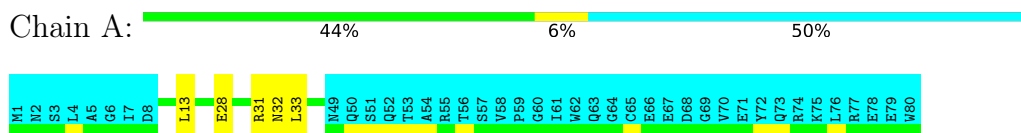
Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	A	80	1301	399	653	116	130	3	0
1	B	80	1301	399	653	116	130	3	0

## 4 Residue-property plots [i](#)

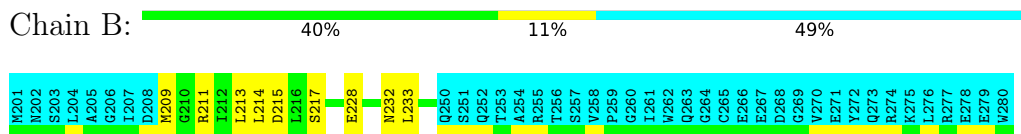
### 4.1 Average score per residue in the NMR ensemble

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

- Molecule 1: uncharacterized protein yiiF



- Molecule 1: uncharacterized protein yiiF

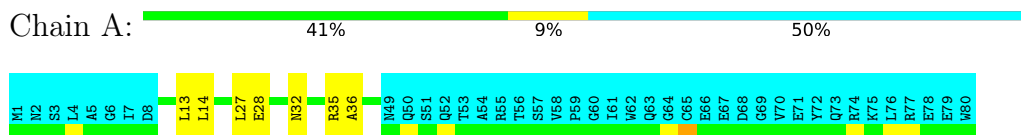


### 4.2 Scores per residue for each member of the ensemble

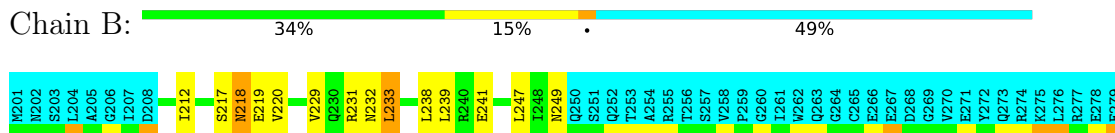
Colouring as in section 4.1 above.

#### 4.2.1 Score per residue for model 1

- Molecule 1: uncharacterized protein yiiF



- Molecule 1: uncharacterized protein yiiF

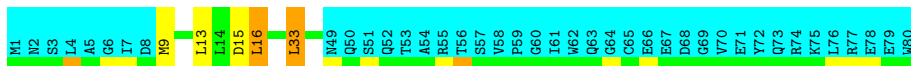


W280


### 4.2.2 Score per residue for model 2

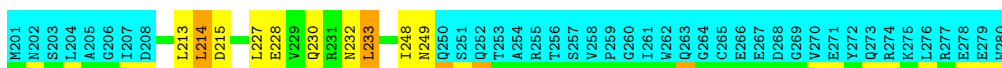
- Molecule 1: uncharacterized protein yiiF

Chain A:  44% 50%




- Molecule 1: uncharacterized protein yiiF

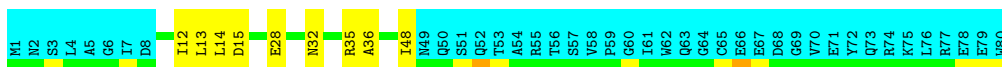
Chain B:  39% 10% 49%



### 4.2.3 Score per residue for model 3

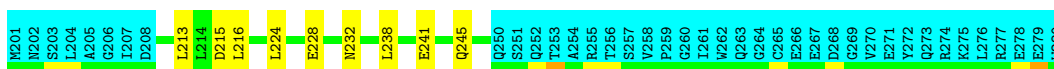
- Molecule 1: uncharacterized protein yiiF

Chain A:  39% 11% 50%



- Molecule 1: uncharacterized protein yiiF

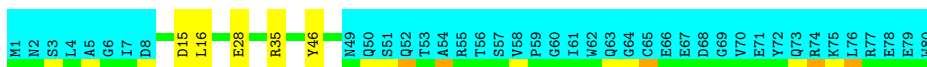
Chain B:  40% 11% 49%



### 4.2.4 Score per residue for model 4

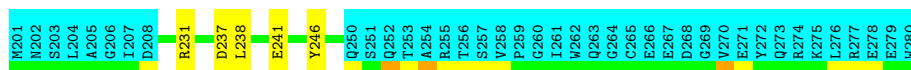
- Molecule 1: uncharacterized protein yiiF

Chain A:  44% 6% 50%



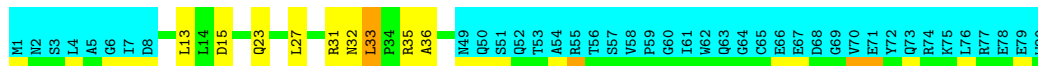
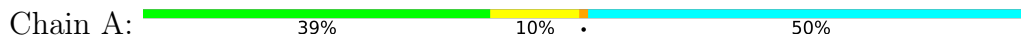
- Molecule 1: uncharacterized protein yiiF

Chain B:  45% 6% 49%

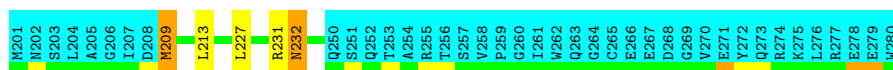


#### 4.2.5 Score per residue for model 5

- Molecule 1: uncharacterized protein yiiF

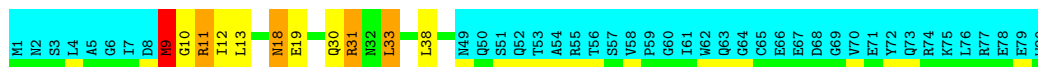
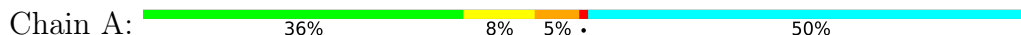


- Molecule 1: uncharacterized protein yiiF

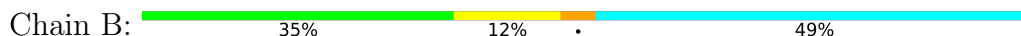


#### 4.2.6 Score per residue for model 6

- Molecule 1: uncharacterized protein yiiF

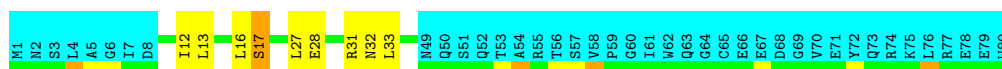
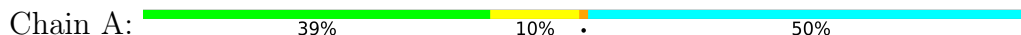


- Molecule 1: uncharacterized protein yiiF

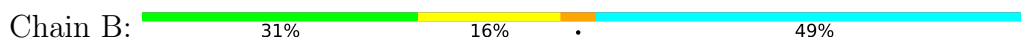


#### 4.2.7 Score per residue for model 7

- Molecule 1: uncharacterized protein yiiF



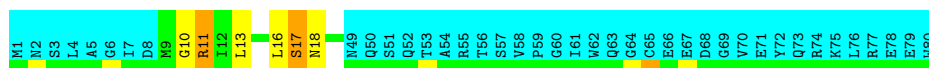
- Molecule 1: uncharacterized protein yiiF



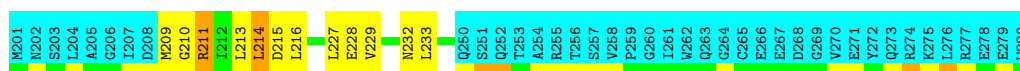
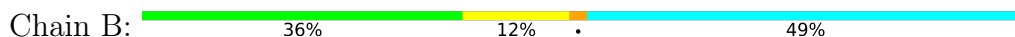


#### 4.2.8 Score per residue for model 8

- Molecule 1: uncharacterized protein yiiF

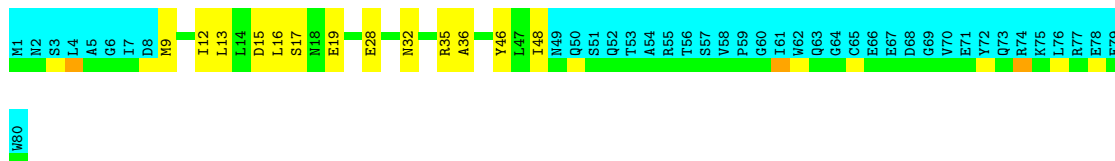
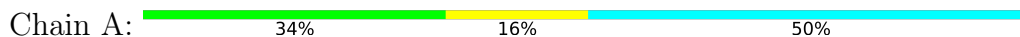


- Molecule 1: uncharacterized protein yiiF

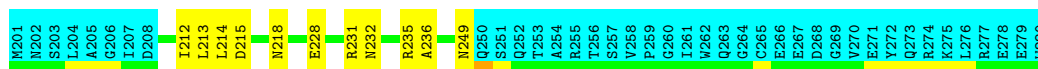
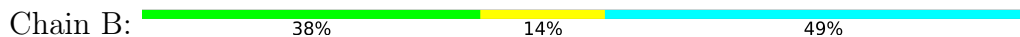


#### 4.2.9 Score per residue for model 9

- Molecule 1: uncharacterized protein yiiF



- Molecule 1: uncharacterized protein yiiF

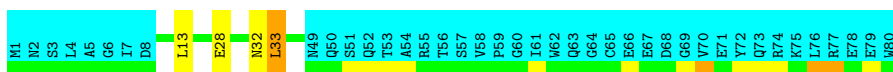


#### 4.2.10 Score per residue for model 10

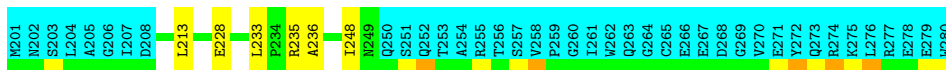
- Molecule 1: uncharacterized protein yiiF





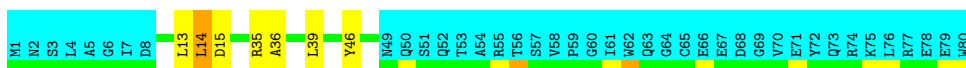
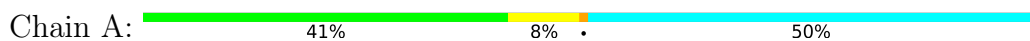


- Molecule 1: uncharacterized protein yiiF

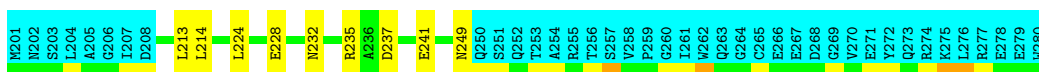


#### 4.2.11 Score per residue for model 11

- Molecule 1: uncharacterized protein yiiF

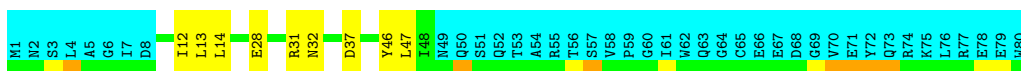
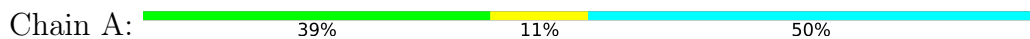


- Molecule 1: uncharacterized protein yiiF

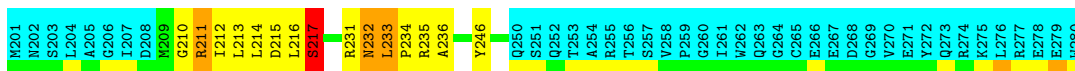
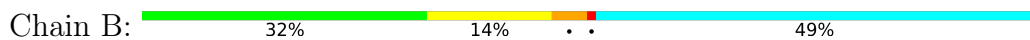


#### 4.2.12 Score per residue for model 12

- Molecule 1: uncharacterized protein yiiF

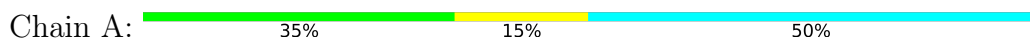


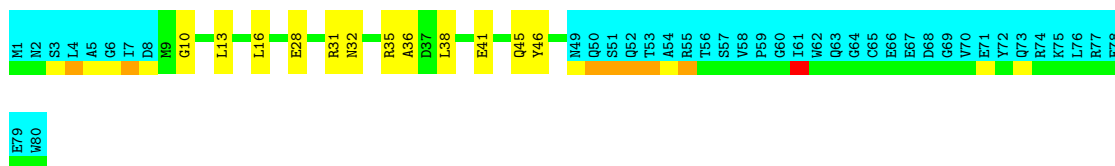
- Molecule 1: uncharacterized protein yiiF



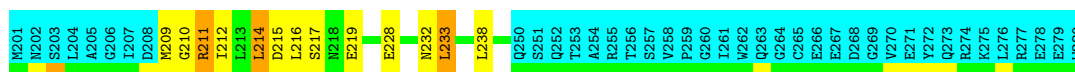
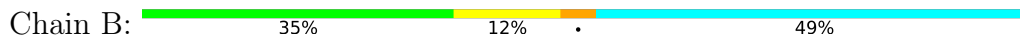
#### 4.2.13 Score per residue for model 13

- Molecule 1: uncharacterized protein yiiF



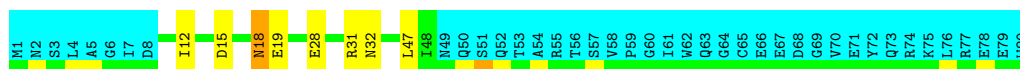


- Molecule 1: uncharacterized protein yiiF

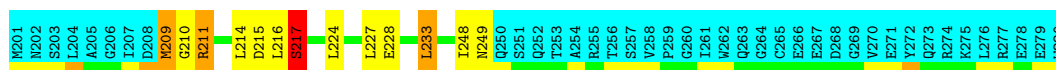
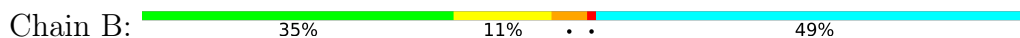


#### 4.2.14 Score per residue for model 14

- Molecule 1: uncharacterized protein yiiF

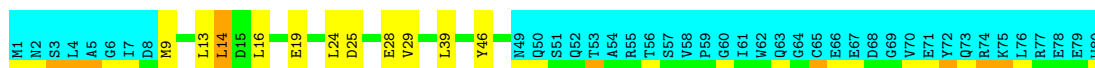
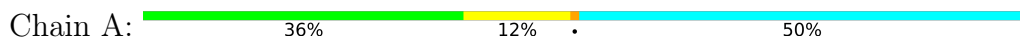


- Molecule 1: uncharacterized protein yiiF

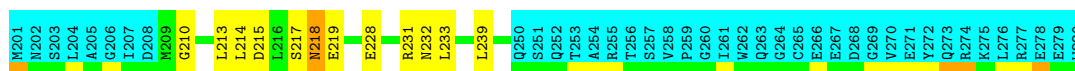
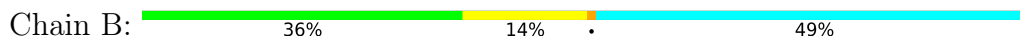


#### 4.2.15 Score per residue for model 15

- Molecule 1: uncharacterized protein yiiF

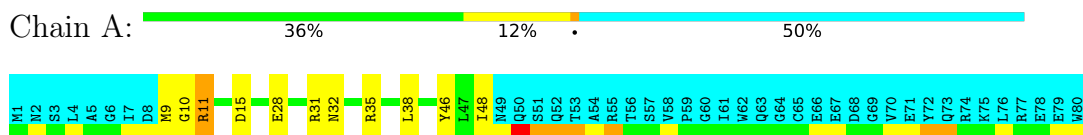


- Molecule 1: uncharacterized protein yiiF

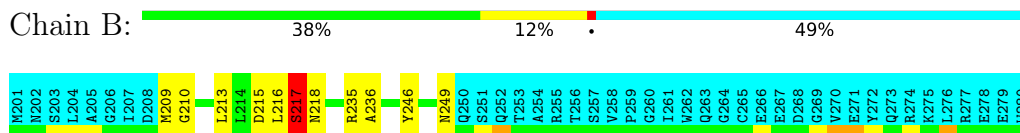


#### 4.2.16 Score per residue for model 16 (medoid)

- Molecule 1: uncharacterized protein yiiF

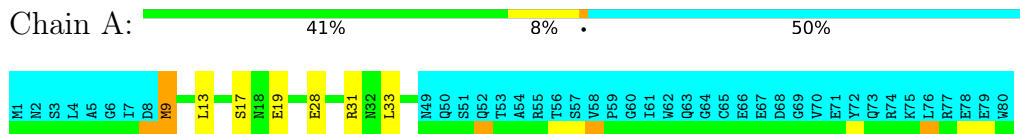


- Molecule 1: uncharacterized protein yiiF

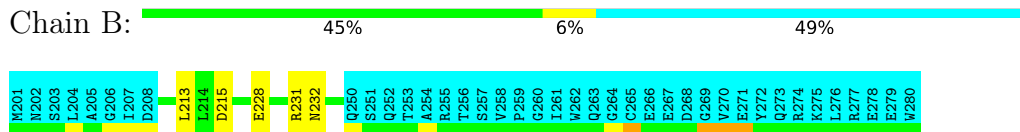


#### 4.2.17 Score per residue for model 17

- Molecule 1: uncharacterized protein yiiF

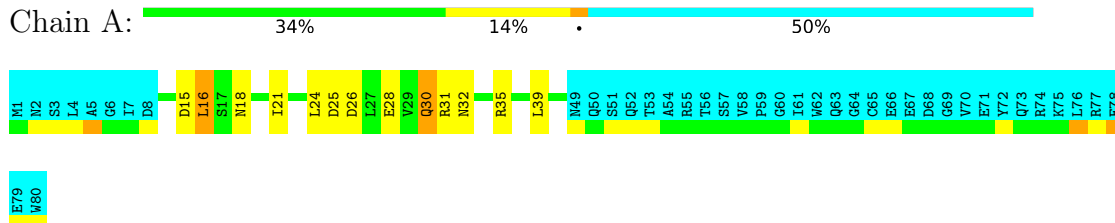


- Molecule 1: uncharacterized protein yiiF

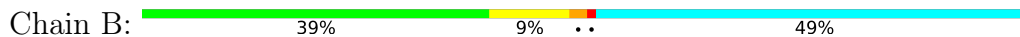


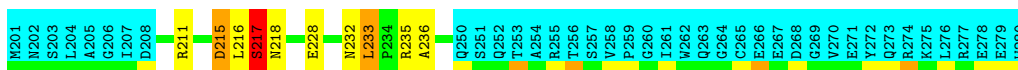
#### 4.2.18 Score per residue for model 18

- Molecule 1: uncharacterized protein yiiF



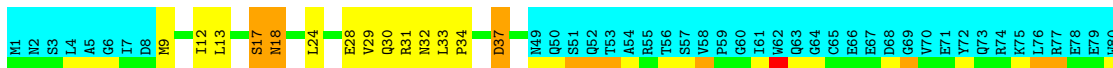
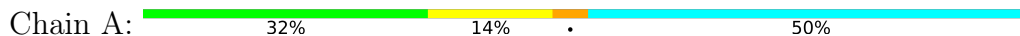
- Molecule 1: uncharacterized protein yiiF



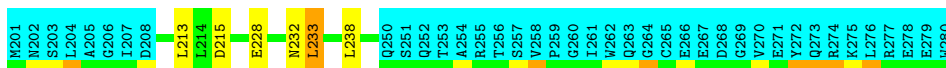


#### 4.2.19 Score per residue for model 19

- Molecule 1: uncharacterized protein yiiF

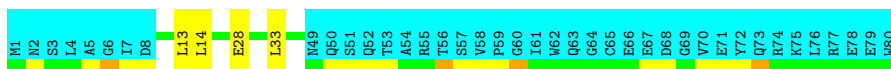


- Molecule 1: uncharacterized protein yiiF

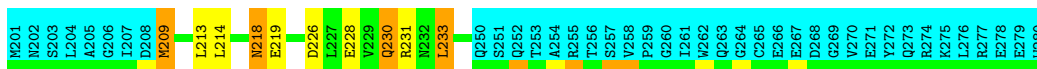
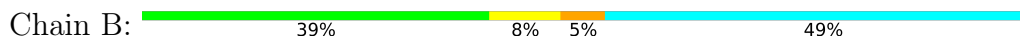


#### 4.2.20 Score per residue for model 20

- Molecule 1: uncharacterized protein yiiF



- Molecule 1: uncharacterized protein yiiF



## 5 Refinement protocol and experimental data overview

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

Of the 100 calculated structures, 20 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
AutoStructure	structure solution	
CNS	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	1808
Number of shifts mapped to atoms	1808
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	85%

## 6 Model quality i

### 6.1 Standard geometry i

There are no covalent bond-length or bond-angle outliers.

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

### 6.2 Too-close contacts i

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	327	349	341	8±3
1	B	335	355	347	9±4
All	All	13240	14080	13760	306

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 11.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:33:LEU:O	1:A:33:LEU:HD23	0.74	1.82	6	2
1:B:233:LEU:HD23	1:B:233:LEU:O	0.74	1.83	7	3
1:B:233:LEU:C	1:B:233:LEU:HD22	0.71	2.06	12	1
1:B:217:SER:O	1:B:219:GLU:N	0.68	2.26	1	1
1:B:214:LEU:HD13	1:B:215:ASP:N	0.64	2.08	6	1
1:B:233:LEU:N	1:B:233:LEU:CD1	0.64	2.60	12	1
1:B:218:ASN:HD22	1:B:218:ASN:N	0.62	1.92	20	1
1:A:18:ASN:ND2	1:A:19:GLU:N	0.62	2.47	14	1
1:B:233:LEU:N	1:B:233:LEU:HD13	0.62	2.09	12	1
1:A:16:LEU:O	1:A:16:LEU:HD12	0.62	1.95	18	1
1:A:31:ARG:N	1:A:31:ARG:HE	0.62	1.91	6	1
1:B:218:ASN:N	1:B:218:ASN:ND2	0.62	2.47	20	1
1:B:216:LEU:O	1:B:217:SER:O	0.61	2.18	14	4

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:218:ASN:HD22	1:B:219:GLU:H	0.58	1.39	20	1
1:A:10:GLY:N	1:B:216:LEU:O	0.58	2.37	13	1
1:B:228:GLU:O	1:B:232:ASN:N	0.58	2.37	3	8
1:A:15:ASP:O	1:A:16:LEU:HD22	0.58	1.99	2	1
1:A:25:ASP:O	1:A:29:VAL:HG23	0.58	1.99	15	1
1:A:31:ARG:N	1:A:31:ARG:NE	0.57	2.52	6	1
1:A:28:GLU:O	1:A:32:ASN:N	0.56	2.38	3	9
1:A:14:LEU:HD23	1:A:15:ASP:H	0.56	1.59	11	1
1:A:14:LEU:HD23	1:A:15:ASP:N	0.56	2.15	11	1
1:A:14:LEU:HD21	1:B:239:LEU:HD13	0.56	1.76	15	2
1:B:214:LEU:HD23	1:B:215:ASP:H	0.56	1.60	2	3
1:B:219:GLU:N	1:B:219:GLU:OE2	0.56	2.39	13	1
1:B:241:GLU:OE1	1:B:241:GLU:N	0.56	2.38	11	1
1:B:213:LEU:HD12	1:B:213:LEU:N	0.55	2.17	19	11
1:A:33:LEU:HD12	1:A:33:LEU:O	0.55	2.01	5	2
1:B:219:GLU:O	1:B:223:GLN:NE2	0.55	2.39	7	1
1:A:26:ASP:O	1:A:30:GLN:NE2	0.55	2.39	18	1
1:A:30:GLN:N	1:A:30:GLN:OE1	0.55	2.39	18	1
1:A:29:VAL:HG13	1:A:30:GLN:N	0.55	2.16	19	1
1:A:31:ARG:NH1	1:B:246:TYR:OH	0.55	2.40	16	2
1:B:214:LEU:HD23	1:B:215:ASP:N	0.55	2.16	2	2
1:B:226:ASP:O	1:B:230:GLN:NE2	0.55	2.40	20	1
1:B:213:LEU:HD22	1:B:213:LEU:N	0.55	2.17	3	1
1:A:18:ASN:HD22	1:A:19:GLU:H	0.54	1.45	14	1
1:B:218:ASN:HD22	1:B:219:GLU:N	0.54	2.01	20	2
1:B:230:GLN:N	1:B:230:GLN:OE1	0.54	2.41	20	1
1:A:13:LEU:C	1:A:13:LEU:HD23	0.54	2.24	20	1
1:B:229:VAL:O	1:B:232:ASN:ND2	0.53	2.41	1	1
1:B:213:LEU:N	1:B:213:LEU:CD2	0.53	2.71	3	1
1:A:13:LEU:N	1:A:13:LEU:CD2	0.53	2.71	9	3
1:B:228:GLU:N	1:B:228:GLU:OE1	0.53	2.42	6	1
1:B:228:GLU:OE1	1:B:235:ARG:N	0.53	2.42	18	1
1:A:28:GLU:OE1	1:A:33:LEU:N	0.53	2.42	19	1
1:A:29:VAL:CG1	1:A:30:GLN:N	0.53	2.72	19	1
1:A:28:GLU:OE2	1:A:35:ARG:N	0.52	2.42	4	4
1:B:233:LEU:HD21	1:B:238:LEU:HG	0.52	1.79	7	3
1:A:39:LEU:HD13	1:B:214:LEU:HD21	0.52	1.80	11	2
1:B:214:LEU:HD13	1:B:215:ASP:H	0.52	1.63	6	1
1:B:233:LEU:O	1:B:233:LEU:HD12	0.52	2.05	14	5
1:A:13:LEU:HD23	1:A:14:LEU:N	0.52	2.19	3	2
1:A:18:ASN:HD22	1:A:19:GLU:N	0.52	2.03	6	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:34:PRO:O	1:A:37:ASP:OD1	0.52	2.28	19	1
1:B:233:LEU:CD2	1:B:234:PRO:O	0.51	2.58	12	1
1:A:13:LEU:N	1:A:13:LEU:HD22	0.51	2.19	9	3
1:A:14:LEU:N	1:B:212:ILE:O	0.51	2.42	1	1
1:A:16:LEU:O	1:B:209:MET:SD	0.51	2.68	8	2
1:B:238:LEU:HD23	1:B:241:GLU:OE1	0.51	2.06	1	1
1:A:31:ARG:NE	1:A:31:ARG:CA	0.51	2.74	6	1
1:A:18:ASN:HD22	1:A:18:ASN:N	0.51	2.04	14	1
1:A:13:LEU:HD12	1:A:13:LEU:N	0.51	2.21	2	7
1:A:12:ILE:N	1:B:214:LEU:O	0.51	2.43	14	3
1:B:233:LEU:HD22	1:B:233:LEU:O	0.50	2.06	12	1
1:A:33:LEU:HD21	1:A:38:LEU:HG	0.50	1.83	6	1
1:A:31:ARG:NH2	1:B:246:TYR:OH	0.50	2.45	7	1
1:B:233:LEU:HD22	1:B:234:PRO:O	0.49	2.07	12	1
1:A:18:ASN:OD1	1:B:210:GLY:N	0.49	2.45	8	1
1:A:12:ILE:HG22	1:A:13:LEU:N	0.49	2.23	19	3
1:B:233:LEU:HD13	1:B:233:LEU:H	0.49	1.67	12	1
1:A:13:LEU:O	1:A:14:LEU:HD22	0.49	2.06	1	1
1:A:12:ILE:HD12	1:B:216:LEU:CD1	0.49	2.37	3	1
1:A:9:MET:SD	1:B:216:LEU:O	0.49	2.71	6	1
1:A:10:GLY:O	1:A:11:ARG:O	0.49	2.30	8	3
1:B:233:LEU:C	1:B:233:LEU:CD2	0.49	2.80	12	1
1:B:210:GLY:O	1:B:211:ARG:O	0.49	2.30	7	5
1:B:213:LEU:CD2	1:B:213:LEU:N	0.48	2.76	5	1
1:B:224:LEU:N	1:B:224:LEU:CD2	0.48	2.76	14	1
1:A:24:LEU:O	1:A:28:GLU:N	0.48	2.45	19	1
1:B:218:ASN:ND2	1:B:218:ASN:H	0.48	2.07	20	1
1:B:235:ARG:CG	1:B:236:ALA:N	0.48	2.76	6	7
1:B:231:ARG:HH11	1:B:238:LEU:HD22	0.48	1.69	4	1
1:A:33:LEU:HD23	1:A:33:LEU:C	0.48	2.29	6	2
1:A:16:LEU:O	1:A:17:SER:O	0.47	2.32	7	1
1:B:232:ASN:CG	1:B:232:ASN:O	0.47	2.52	6	2
1:A:35:ARG:CG	1:A:36:ALA:N	0.47	2.77	13	6
1:B:228:GLU:OE1	1:B:238:LEU:CD1	0.47	2.62	3	1
1:A:31:ARG:NH1	1:A:38:LEU:HD22	0.47	2.25	13	2
1:A:25:ASP:O	1:A:29:VAL:CG2	0.47	2.63	15	1
1:A:18:ASN:N	1:A:18:ASN:OD1	0.47	2.48	19	1
1:A:16:LEU:O	1:B:209:MET:CE	0.47	2.63	8	2
1:B:212:ILE:HG22	1:B:213:LEU:N	0.47	2.25	9	1
1:A:18:ASN:ND2	1:A:19:GLU:H	0.47	2.06	14	1
1:A:31:ARG:NH1	1:A:38:LEU:CD2	0.47	2.78	16	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:213:LEU:C	1:B:214:LEU:HD22	0.47	2.29	20	1
1:B:228:GLU:OE2	1:B:233:LEU:O	0.47	2.34	14	2
1:B:224:LEU:C	1:B:235:ARG:HH12	0.46	2.13	11	1
1:A:28:GLU:OE1	1:A:33:LEU:O	0.46	2.34	19	3
1:B:233:LEU:HD23	1:B:233:LEU:C	0.46	2.31	7	3
1:A:24:LEU:O	1:A:28:GLU:CB	0.46	2.63	15	1
1:B:228:GLU:CG	1:B:233:LEU:O	0.46	2.64	20	2
1:B:232:ASN:O	1:B:232:ASN:ND2	0.46	2.49	9	1
1:B:233:LEU:HD21	1:B:238:LEU:CG	0.46	2.40	7	1
1:A:15:ASP:O	1:A:15:ASP:OD2	0.46	2.34	11	3
1:B:213:LEU:N	1:B:213:LEU:CD1	0.45	2.79	19	5
1:A:32:ASN:O	1:A:32:ASN:ND2	0.45	2.49	18	1
1:A:16:LEU:O	1:B:210:GLY:N	0.45	2.49	15	1
1:A:19:GLU:OE1	1:A:19:GLU:N	0.45	2.41	15	1
1:B:231:ARG:O	1:B:232:ASN:CG	0.45	2.54	5	2
1:B:219:GLU:O	1:B:223:GLN:OE1	0.45	2.34	7	1
1:B:233:LEU:HD21	1:B:238:LEU:CD1	0.45	2.41	7	1
1:B:213:LEU:HD23	1:B:214:LEU:N	0.45	2.27	9	1
1:A:15:ASP:O	1:A:15:ASP:OD1	0.45	2.34	4	2
1:B:229:VAL:O	1:B:232:ASN:OD1	0.45	2.35	8	2
1:B:213:LEU:N	1:B:213:LEU:HD22	0.45	2.26	5	1
1:B:224:LEU:O	1:B:228:GLU:OE1	0.45	2.34	6	1
1:B:215:ASP:O	1:B:215:ASP:OD2	0.45	2.34	16	5
1:B:231:ARG:O	1:B:232:ASN:ND2	0.45	2.49	5	1
1:B:232:ASN:C	1:B:233:LEU:HD12	0.45	2.32	6	1
1:A:28:GLU:OE2	1:A:33:LEU:O	0.45	2.35	20	1
1:B:231:ARG:O	1:B:232:ASN:HB2	0.44	2.12	12	2
1:B:231:ARG:HB3	1:B:233:LEU:HD22	0.44	1.88	7	1
1:A:15:ASP:OD1	1:A:15:ASP:N	0.44	2.50	5	1
1:B:215:ASP:O	1:B:216:LEU:HD22	0.44	2.12	8	1
1:A:27:LEU:N	1:A:27:LEU:HD12	0.44	2.27	7	1
1:A:41:GLU:O	1:A:45:GLN:OE1	0.44	2.36	13	1
1:A:48:ILE:CD1	1:A:48:ILE:N	0.44	2.80	9	1
1:B:231:ARG:O	1:B:232:ASN:CB	0.44	2.65	5	1
1:A:35:ARG:HH11	1:A:39:LEU:HD11	0.44	1.72	18	1
1:A:12:ILE:CG2	1:A:13:LEU:N	0.44	2.81	19	1
1:B:224:LEU:O	1:B:228:GLU:CD	0.44	2.56	3	1
1:B:215:ASP:C	1:B:216:LEU:HD22	0.44	2.33	8	1
1:A:46:TYR:OH	1:B:231:ARG:NH1	0.44	2.47	15	1
1:A:24:LEU:HD12	1:A:24:LEU:O	0.44	2.13	18	1
1:B:212:ILE:CG2	1:B:213:LEU:N	0.44	2.81	9	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:237:ASP:O	1:B:241:GLU:OE1	0.43	2.36	11	1
1:B:241:GLU:O	1:B:245:GLN:OE1	0.43	2.35	3	1
1:B:215:ASP:OD1	1:B:215:ASP:O	0.43	2.36	19	2
1:A:9:MET:SD	1:B:215:ASP:CB	0.43	3.06	6	1
1:A:9:MET:SD	1:B:215:ASP:C	0.43	2.97	6	1
1:A:31:ARG:O	1:A:32:ASN:CG	0.43	2.57	16	4
1:A:27:LEU:CD1	1:B:247:LEU:CD2	0.43	2.96	1	1
1:B:228:GLU:OE1	1:B:233:LEU:O	0.43	2.37	15	2
1:A:31:ARG:O	1:A:32:ASN:OD1	0.43	2.37	18	1
1:A:32:ASN:O	1:A:32:ASN:OD1	0.43	2.37	19	1
1:A:14:LEU:O	1:B:212:ILE:N	0.43	2.47	12	1
1:A:15:ASP:C	1:A:16:LEU:HD22	0.42	2.35	4	2
1:B:232:ASN:O	1:B:232:ASN:OD1	0.42	2.37	17	2
1:A:16:LEU:CD2	1:A:16:LEU:N	0.42	2.82	9	1
1:A:37:ASP:O	1:A:37:ASP:OD2	0.42	2.37	12	1
1:B:231:ARG:O	1:B:232:ASN:OD1	0.42	2.36	9	1
1:B:228:GLU:OE1	1:B:228:GLU:CA	0.42	2.68	6	1
1:A:47:LEU:CD2	1:B:227:LEU:CD1	0.42	2.98	14	1
1:B:227:LEU:HD12	1:B:227:LEU:N	0.42	2.29	8	1
1:A:15:ASP:OD1	1:B:210:GLY:O	0.42	2.37	16	1
1:B:249:ASN:O	1:B:249:ASN:OD1	0.42	2.38	1	1
1:B:237:ASP:OD2	1:B:237:ASP:O	0.42	2.38	4	2
1:A:9:MET:CG	1:B:216:LEU:O	0.42	2.68	6	1
1:B:215:ASP:OD2	1:B:215:ASP:N	0.42	2.53	14	2
1:A:46:TYR:OH	1:B:231:ARG:NH2	0.41	2.53	4	1
1:B:237:ASP:O	1:B:237:ASP:OD2	0.41	2.37	11	1
1:B:217:SER:O	1:B:218:ASN:C	0.41	2.58	1	1
1:A:9:MET:SD	1:B:217:SER:OG	0.41	2.67	15	1
1:A:9:MET:CB	1:B:216:LEU:O	0.41	2.68	6	1
1:A:21:ILE:O	1:A:25:ASP:CB	0.41	2.69	18	1
1:A:13:LEU:N	1:A:13:LEU:CD1	0.41	2.84	11	5
1:A:33:LEU:C	1:A:33:LEU:CD2	0.41	2.89	2	1
1:A:31:ARG:O	1:A:32:ASN:CB	0.41	2.68	5	1
1:B:224:LEU:N	1:B:224:LEU:HD22	0.41	2.29	14	1
1:A:17:SER:O	1:A:18:ASN:CB	0.41	2.67	8	2
1:B:217:SER:O	1:B:220:VAL:N	0.41	2.47	1	1
1:A:16:LEU:HD12	1:B:212:ILE:CD1	0.41	2.46	13	1
1:B:214:LEU:HD22	1:B:216:LEU:CD2	0.41	2.46	13	1
1:A:13:LEU:C	1:A:13:LEU:CD2	0.41	2.89	20	1
1:A:23:GLN:O	1:A:27:LEU:HD13	0.41	2.15	5	1
1:A:16:LEU:HD22	1:A:16:LEU:N	0.41	2.31	9	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:215:ASP:OD1	1:B:215:ASP:N	0.41	2.53	12	1
1:B:227:LEU:N	1:B:227:LEU:HD12	0.40	2.31	2	1
1:A:31:ARG:CZ	1:B:246:TYR:OH	0.40	2.69	7	1
1:A:48:ILE:N	1:A:48:ILE:HD12	0.40	2.31	9	1
1:B:218:ASN:ND2	1:B:219:GLU:N	0.40	2.67	20	1
1:A:30:GLN:C	1:A:31:ARG:HE	0.40	2.17	6	1
1:B:219:GLU:O	1:B:223:GLN:CD	0.40	2.60	7	1
1:A:12:ILE:C	1:A:13:LEU:HD22	0.40	2.37	12	1
1:B:213:LEU:C	1:B:213:LEU:CD2	0.40	2.90	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	
1	A	40/80 (50%)	39±1 (97±3%)	1±1 (2±2%)	0±1 (1±1%)	18	66
1	B	41/80 (51%)	39±2 (95±4%)	1±1 (2±2%)	1±1 (3±3%)	8	44
All	All	1620/3200 (51%)	1557 (96%)	33 (2%)	30 (2%)	11	53

All 9 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	B	211	ARG	6
1	A	9	MET	5
1	B	209	MET	5
1	B	217	SER	5
1	B	232	ASN	3
1	A	11	ARG	3
1	B	218	ASN	1
1	A	17	SER	1
1	B	249	ASN	1

### 6.3.2 Protein sidechains [i](#)

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	37/71 (52%)	36±1 (97±3%)	1±1 (3±3%)	46	90
1	B	38/71 (54%)	37±1 (97±3%)	1±1 (3±3%)	41	87
All	All	1500/2840 (53%)	1454 (97%)	46 (3%)	43	88

All 20 unique residues with a non-rotameric sidechain are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	B	233	LEU	9
1	A	33	LEU	4
1	B	214	LEU	4
1	A	17	SER	4
1	B	217	SER	4
1	A	18	ASN	3
1	A	16	LEU	2
1	A	19	GLU	2
1	A	14	LEU	2
1	B	218	ASN	2
1	B	241	GLU	1
1	A	9	MET	1
1	A	31	ARG	1
1	B	228	GLU	1
1	B	213	LEU	1
1	A	30	GLN	1
1	B	215	ASP	1
1	B	232	ASN	1
1	A	37	ASP	1
1	B	230	GLN	1

### 6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

## 6.5 Carbohydrates [i](#)

There are no 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 85% for the well-defined parts and 80% 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	1808
Number of shifts mapped to atoms	1808
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	2

#### 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
$^{13}\text{C}_\alpha$	154	$-0.16 \pm 0.13$	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	144	$0.20 \pm 0.06$	None needed (< 0.5 ppm)
$^{13}\text{C}'$	0	—	None (insufficient data)
$^{15}\text{N}$	144	$-0.04 \pm 0.13$	None needed (< 0.5 ppm)

#### 7.1.3 Completeness of resonance assignments [i](#)

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 85%, i.e. 1022 atoms were assigned a chemical shift out of a possible 1206. 0 out of 24 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	$^1\text{H}$	$^{13}\text{C}$	$^{15}\text{N}$
Backbone	322/403 (80%)	162/162 (100%)	81/162 (50%)	79/79 (100%)
Sidechain	688/785 (88%)	470/508 (93%)	205/240 (85%)	13/37 (35%)

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	<b>Total</b>	<b><sup>1</sup>H</b>	<b><sup>13</sup>C</b>	<b><sup>15</sup>N</b>
Aromatic	12/18 (67%)	8/8 (100%)	4/10 (40%)	0/0 (—%)
Overall	1022/1206 (85%)	640/678 (94%)	290/412 (70%)	92/116 (79%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 80%, i.e. 1808 atoms were assigned a chemical shift out of a possible 2256. 0 out of 32 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	<b>Total</b>	<b><sup>1</sup>H</b>	<b><sup>13</sup>C</b>	<b><sup>15</sup>N</b>
Backbone	606/802 (76%)	308/326 (94%)	154/320 (48%)	144/156 (92%)
Sidechain	1130/1370 (82%)	770/880 (88%)	340/422 (81%)	20/68 (29%)
Aromatic	72/84 (86%)	40/40 (100%)	28/40 (70%)	4/4 (100%)
Overall	1808/2256 (80%)	1118/1246 (90%)	522/782 (67%)	168/228 (74%)

#### 7.1.4 Statistically unusual chemical shifts [i](#)

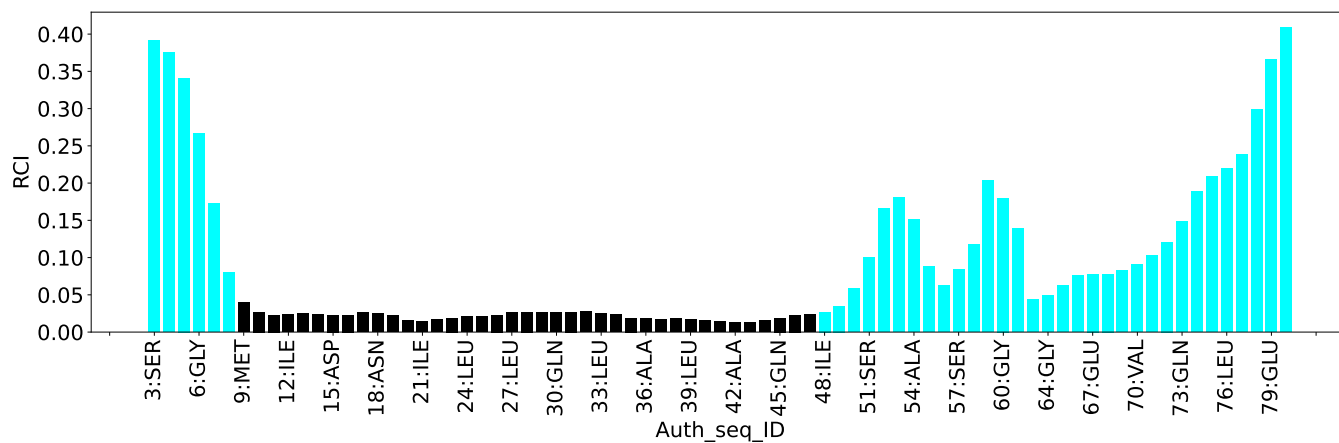
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	40	ARG	NE	32.50	76.53 – 92.65	-32.3
1	B	240	ARG	NE	32.50	76.53 – 92.65	-32.3

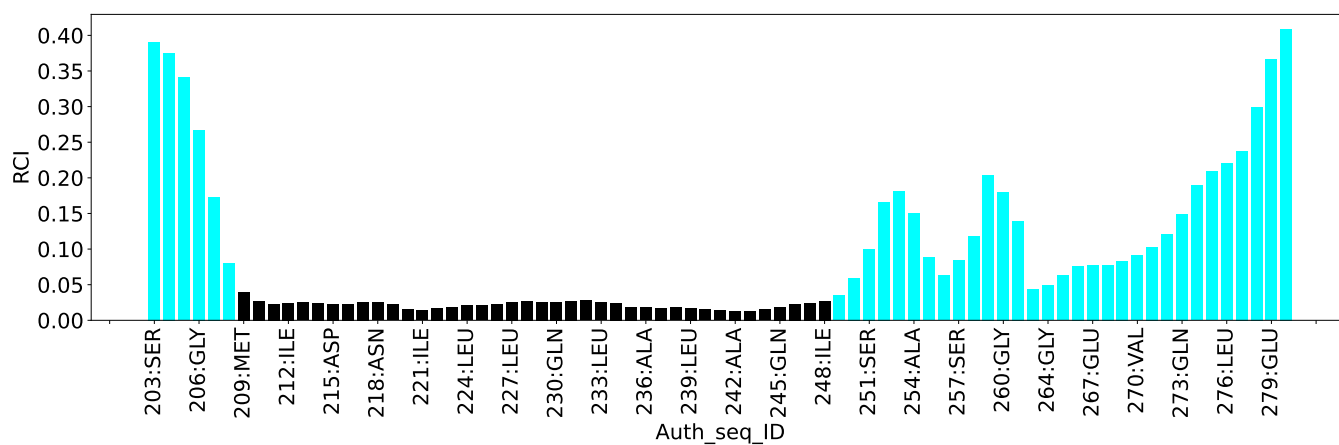
#### 7.1.5 Random Coil Index (RCI) plots [i](#)

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

Random coil index (RCI) for chain A:



Random coil index (RCI) for chain B:





## 8 NMR restraints analysis

### 8.1 Conformationally restricting restraints

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

Description	Value
Total distance restraints	2122
Intra-residue ( $ i-j =0$ )	616
Sequential ( $ i-j =1$ )	542
Medium range ( $ i-j >1$ and $ i-j <5$ )	474
Long range ( $ i-j \geq 5$ )	80
Inter-chain	410
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	224
Number of unmapped restraints	0
Number of restraints per residue	14.7
Number of long range restraints per residue <sup>1</sup>	0.5

<sup>1</sup>Long 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)	39.1	0.2
0.2-0.5 (Medium)	24.6	0.5
>0.5 (Large)	2.8	1.21

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

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

Bins (°)	Average number of violations per model	Max (°)
1.0-10.0 (Small)	3.5	9.7
10.0-20.0 (Medium)	None	None
>20.0 (Large)	None	None

## 9 Distance violation analysis

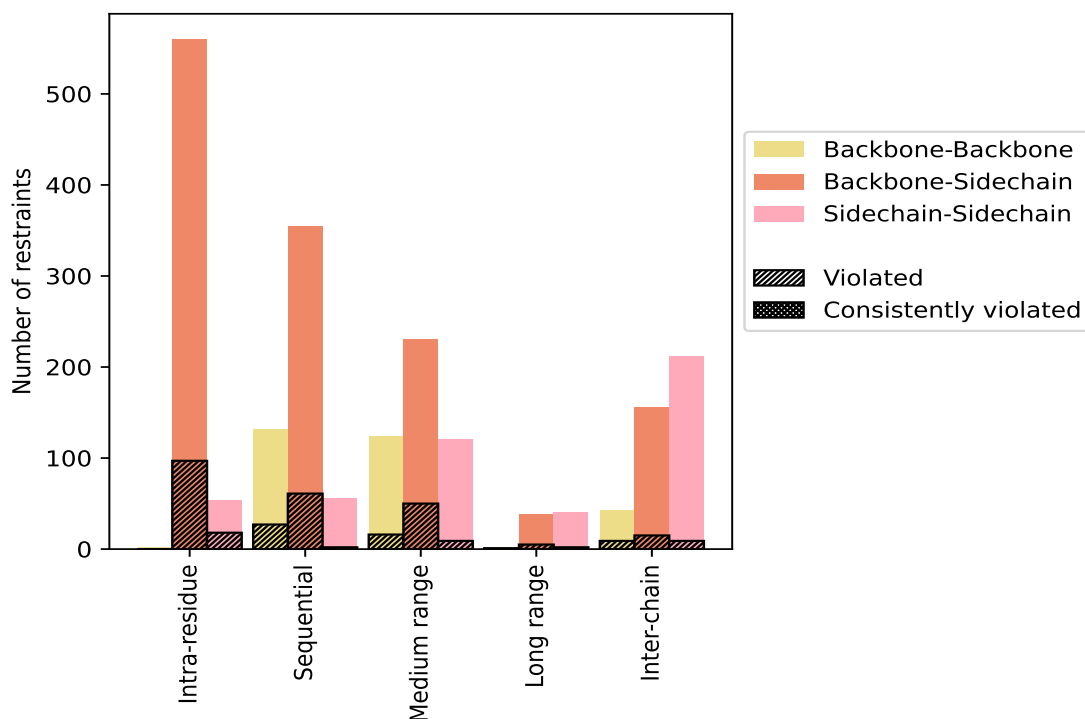
### 9.1 Summary of distance violations

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

Restrains type	Count	% <sup>1</sup>	Violated <sup>3</sup>			Consistently Violated <sup>4</sup>		
			Count	% <sup>2</sup>	% <sup>1</sup>	Count	% <sup>2</sup>	% <sup>1</sup>
<b>Intra-residue (<math> i-j =0</math>)</b>	<b>616</b>	<b>29.0</b>	<b>115</b>	<b>18.7</b>	<b>5.4</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>
Backbone-Backbone	2	0.1	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	560	26.4	97	17.3	4.6	0	0.0	0.0
Sidechain-Sidechain	54	2.5	18	33.3	0.8	0	0.0	0.0
<b>Sequential (<math> i-j =1</math>)</b>	<b>542</b>	<b>25.5</b>	<b>90</b>	<b>16.6</b>	<b>4.2</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>
Backbone-Backbone	132	6.2	27	20.5	1.3	0	0.0	0.0
Backbone-Sidechain	354	16.7	61	17.2	2.9	0	0.0	0.0
Sidechain-Sidechain	56	2.6	2	3.6	0.1	0	0.0	0.0
<b>Medium range (<math> i-j &gt;1</math> &amp; <math> i-j &lt;5</math>)</b>	<b>474</b>	<b>22.3</b>	<b>75</b>	<b>15.8</b>	<b>3.5</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>
Backbone-Backbone	124	5.8	16	12.9	0.8	0	0.0	0.0
Backbone-Sidechain	230	10.8	50	21.7	2.4	0	0.0	0.0
Sidechain-Sidechain	120	5.7	9	7.5	0.4	0	0.0	0.0
<b>Long range (<math> i-j \geq 5</math>)</b>	<b>80</b>	<b>3.8</b>	<b>8</b>	<b>10.0</b>	<b>0.4</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>
Backbone-Backbone	2	0.1	1	50.0	0.0	0	0.0	0.0
Backbone-Sidechain	38	1.8	5	13.2	0.2	0	0.0	0.0
Sidechain-Sidechain	40	1.9	2	5.0	0.1	0	0.0	0.0
<b>Inter-chain</b>	<b>410</b>	<b>19.3</b>	<b>33</b>	<b>8.0</b>	<b>1.6</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>
Backbone-Backbone	42	2.0	9	21.4	0.4	0	0.0	0.0
Backbone-Sidechain	156	7.4	15	9.6	0.7	0	0.0	0.0
Sidechain-Sidechain	212	10.0	9	4.2	0.4	0	0.0	0.0
<b>Hydrogen bond</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>
<b>Disulfide bond</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>
<b>Total</b>	<b>2122</b>	<b>100.0</b>	<b>321</b>	<b>15.1</b>	<b>15.1</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>
Backbone-Backbone	302	14.2	53	17.5	2.5	0	0.0	0.0
Backbone-Sidechain	1338	63.1	228	17.0	10.7	0	0.0	0.0
Sidechain-Sidechain	482	22.7	40	8.3	1.9	0	0.0	0.0

<sup>1</sup> percentage calculated with respect to the total number of distance restraints, <sup>2</sup> percentage calculated with respect to the number of restraints in a particular restraint category, <sup>3</sup> violated in at least one model, <sup>4</sup> 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 <sup>6</sup> (Å)	Median (Å)
	IR <sup>1</sup>	SQ <sup>2</sup>	MR <sup>3</sup>	LR <sup>4</sup>	IC <sup>5</sup>	Total				
1	24	21	18	0	8	71	0.22	0.53	0.11	0.19
2	20	19	17	2	3	61	0.22	0.42	0.08	0.2
3	21	14	19	0	1	55	0.2	0.54	0.1	0.17
4	22	20	14	1	2	59	0.21	0.53	0.1	0.18
5	27	22	19	2	4	74	0.22	0.56	0.1	0.19
6	28	25	18	1	14	86	0.23	1.18	0.15	0.18
7	23	18	16	1	1	59	0.2	0.53	0.1	0.17
8	31	21	22	1	7	82	0.22	0.53	0.1	0.2
9	26	18	18	0	5	67	0.21	0.58	0.1	0.2
10	26	16	18	0	0	60	0.21	0.53	0.09	0.18
11	22	24	17	3	6	72	0.23	0.9	0.14	0.19

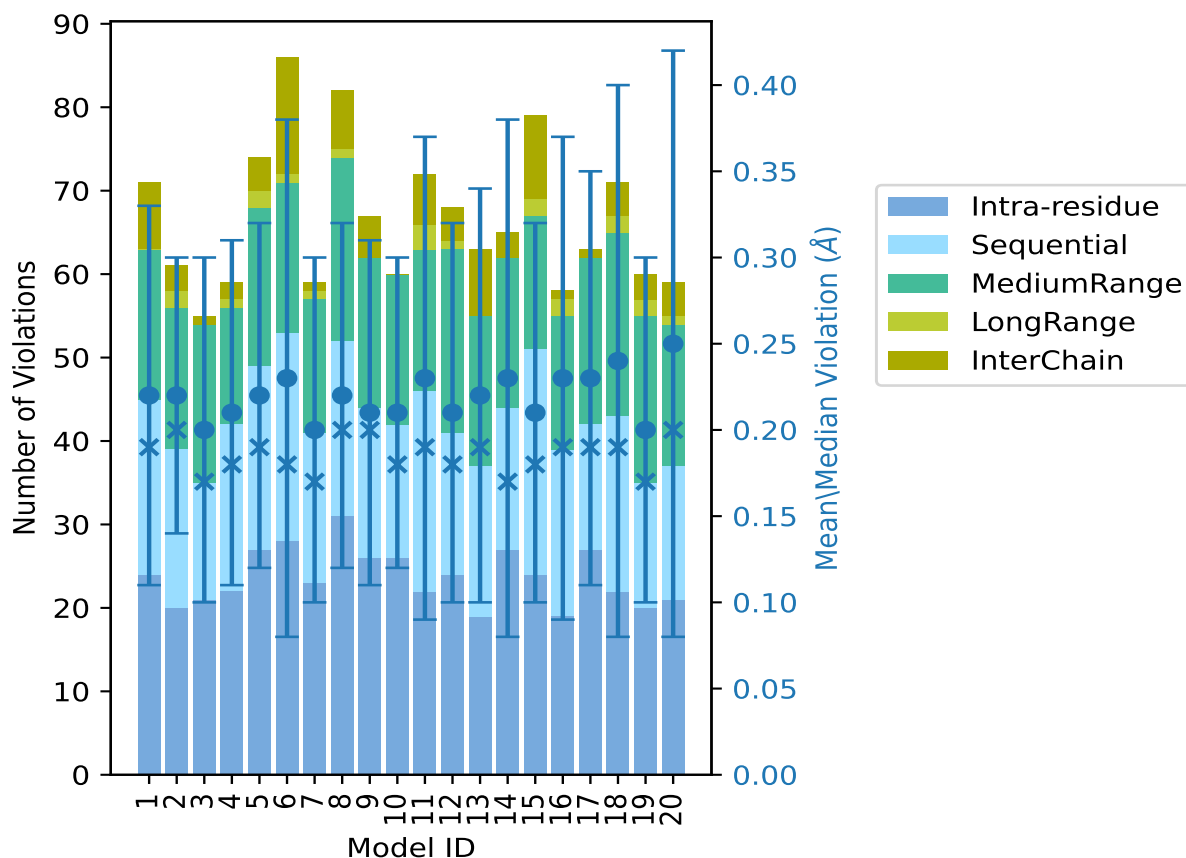
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Model ID	Number of violations						Mean (Å)	Max (Å)	SD <sup>6</sup> (Å)	Median (Å)
	IR <sup>1</sup>	SQ <sup>2</sup>	MR <sup>3</sup>	LR <sup>4</sup>	IC <sup>5</sup>	Total				
12	24	17	22	1	4	68	0.21	0.68	0.11	0.18
13	19	18	18	0	8	63	0.22	0.74	0.12	0.19
14	27	17	18	0	3	65	0.23	0.97	0.15	0.17
15	24	27	16	2	10	79	0.21	0.53	0.11	0.18
16	19	20	16	2	1	58	0.23	0.94	0.14	0.19
17	27	15	20	0	1	63	0.23	0.64	0.12	0.19
18	22	21	22	2	4	71	0.24	0.92	0.16	0.19
19	20	15	20	2	3	60	0.2	0.53	0.1	0.17
20	21	16	17	1	4	59	0.25	1.21	0.17	0.2

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

### 9.2.1 Bar graph : Distance Violation statistics for each model



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

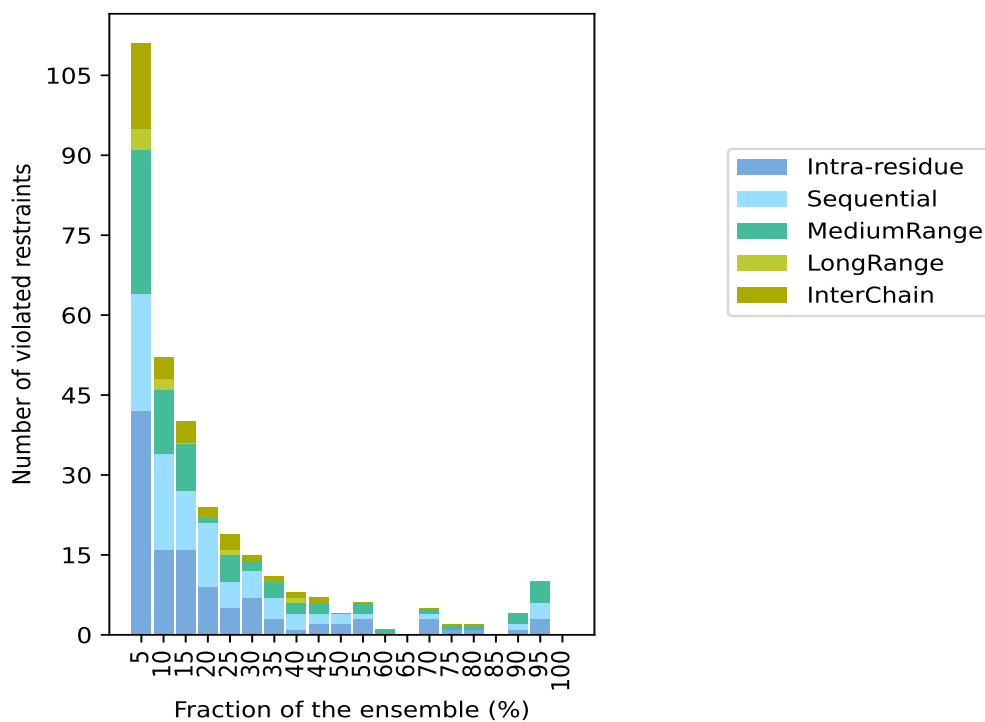
### 9.3 Distance violation statistics for the ensemble

Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 1801(IR:501, SQ:452, MR:399, LR:72, IC:377) restraints are not violated in the ensemble.

Number of violated restraints						Fraction of the ensemble	
IR <sup>1</sup>	SQ <sup>2</sup>	MR <sup>3</sup>	LR <sup>4</sup>	IC <sup>5</sup>	Total	Count <sup>6</sup>	%
42	22	27	4	16	111	1	5.0
16	18	12	2	4	52	2	10.0
16	11	9	0	4	40	3	15.0
9	12	1	0	2	24	4	20.0
5	5	5	1	3	19	5	25.0
7	5	2	0	1	15	6	30.0
3	4	3	0	1	11	7	35.0
1	3	2	1	1	8	8	40.0
2	2	2	0	1	7	9	45.0
2	2	0	0	0	4	10	50.0
3	1	2	0	0	6	11	55.0
0	0	1	0	0	1	12	60.0
0	0	0	0	0	0	13	65.0
3	1	1	0	0	5	14	70.0
1	0	1	0	0	2	15	75.0
1	0	1	0	0	2	16	80.0
0	0	0	0	0	0	17	85.0
1	1	2	0	0	4	18	90.0
3	3	4	0	0	10	19	95.0
0	0	0	0	0	0	20	100.0

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

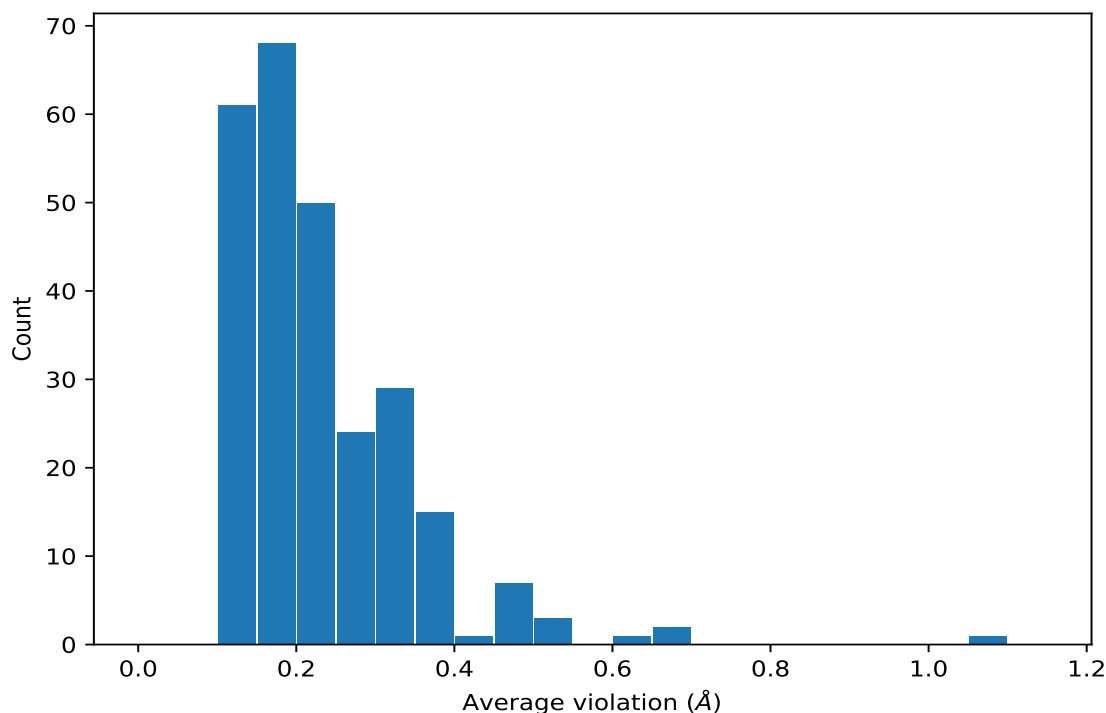
### 9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



## 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 <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1223)	1:A:20:VAL:HA	1:A:23:GLN:HG2	19	0.32	0.07	0.32
(1,1224)	1:B:220:VAL:HA	1:B:223:GLN:HG2	19	0.31	0.05	0.3
(1,762)	1:B:212:ILE:HB	1:B:213:LEU:H	19	0.25	0.09	0.22
(1,1012)	1:B:223:GLN:HB2	1:B:223:GLN:HG2	19	0.22	0.0	0.22
(1,1011)	1:A:23:GLN:HB2	1:A:23:GLN:HG2	19	0.21	0.0	0.21
(1,818)	1:B:221:ILE:HA	1:B:224:LEU:HB3	19	0.2	0.05	0.2
(1,814)	1:B:220:VAL:HA	1:B:223:GLN:HB3	19	0.2	0.05	0.2
(1,105)	1:A:46:TYR:HB2	1:A:47:LEU:H	19	0.19	0.05	0.19
(1,106)	1:B:246:TYR:HB2	1:B:247:LEU:H	19	0.18	0.04	0.17
(1,736)	1:B:245:GLN:H	1:B:245:GLN:HB3	19	0.13	0.01	0.13
(1,761)	1:A:12:ILE:HB	1:A:13:LEU:H	18	0.24	0.08	0.22
(1,817)	1:A:21:ILE:HA	1:A:24:LEU:HB3	18	0.21	0.03	0.21
(1,813)	1:A:20:VAL:HA	1:A:23:GLN:HB3	18	0.17	0.03	0.17
(1,735)	1:A:45:GLN:H	1:A:45:GLN:HB3	18	0.13	0.01	0.13
(1,695)	1:A:13:LEU:H	1:A:13:LEU:HB3	16	0.18	0.03	0.17
(1,868)	1:B:242:ALA:HA	1:B:245:GLN:HB3	16	0.17	0.04	0.16

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,696)	1:B:213:LEU:H	1:B:213:LEU:HB3	15	0.17	0.02	0.17
(1,867)	1:A:42:ALA:HA	1:A:45:GLN:HB3	15	0.16	0.03	0.15
(1,972)	1:B:213:LEU:HB2	1:B:213:LEU:HG	14	0.32	0.01	0.32
(1,224)	1:B:207:ILE:H	1:B:208:ASP:H	14	0.22	0.05	0.22
(1,702)	1:B:217:SER:H	1:B:217:SER:HB3	14	0.21	0.05	0.19
(1,701)	1:A:17:SER:H	1:A:17:SER:HB3	14	0.19	0.01	0.18
(1,844)	1:B:236:ALA:HA	1:B:239:LEU:HB3	14	0.16	0.03	0.16
(1,843)	1:A:36:ALA:HA	1:A:39:LEU:HB3	12	0.16	0.04	0.15
(1,1093)	1:A:76:LEU:HB3	1:A:76:LEU:HG	11	0.47	0.1	0.53
(1,454)	1:B:227:LEU:H	1:B:227:LEU:HG	11	0.31	0.27	0.19
(1,1102)	1:B:216:LEU:HG	1:B:217:SER:H	11	0.19	0.06	0.18
(1,366)	1:B:229:VAL:HA	1:B:233:LEU:H	11	0.18	0.06	0.18
(1,179)	1:A:32:ASN:H	1:A:32:ASN:HB3	11	0.17	0.02	0.16
(1,835)	1:A:35:ARG:HA	1:A:38:LEU:HB3	11	0.16	0.04	0.16
(1,1091)	1:A:76:LEU:HB2	1:A:76:LEU:HG	10	0.45	0.13	0.53
(1,971)	1:A:13:LEU:HB2	1:A:13:LEU:HG	10	0.33	0.0	0.33
(1,223)	1:A:7:ILE:H	1:A:8:ASP:H	10	0.23	0.06	0.22
(1,75)	1:A:35:ARG:HB3	1:A:36:ALA:H	10	0.18	0.04	0.18
(1,1094)	1:B:276:LEU:HB3	1:B:276:LEU:HG	9	0.48	0.13	0.53
(1,453)	1:A:27:LEU:H	1:A:27:LEU:HG	9	0.3	0.18	0.27
(1,540)	1:B:234:PRO:HG3	1:B:237:ASP:H	9	0.21	0.19	0.15
(1,76)	1:B:235:ARG:HB3	1:B:236:ALA:H	9	0.21	0.08	0.18
(1,369)	1:A:34:PRO:HB3	1:A:36:ALA:H	9	0.16	0.04	0.15
(1,73)	1:A:35:ARG:HB2	1:A:36:ALA:H	9	0.15	0.03	0.16
(1,645)	1:A:23:GLN:H	1:B:247:LEU:HD11	9	0.13	0.01	0.13
(1,645)	1:A:23:GLN:H	1:B:247:LEU:HD12	9	0.13	0.01	0.13
(1,645)	1:A:23:GLN:H	1:B:247:LEU:HD13	9	0.13	0.01	0.13
(1,1092)	1:B:276:LEU:HB2	1:B:276:LEU:HG	8	0.48	0.11	0.53
(1,1101)	1:A:16:LEU:HG	1:A:17:SER:H	8	0.22	0.1	0.2
(1,128)	1:B:250:GLN:HB3	1:B:251:SER:H	8	0.2	0.01	0.2
(1,646)	1:A:47:LEU:HD11	1:B:223:GLN:H	8	0.18	0.03	0.17
(1,646)	1:A:47:LEU:HD12	1:B:223:GLN:H	8	0.18	0.03	0.17
(1,646)	1:A:47:LEU:HD13	1:B:223:GLN:H	8	0.18	0.03	0.17
(1,836)	1:B:235:ARG:HA	1:B:238:LEU:HB3	8	0.17	0.05	0.16
(1,11)	1:A:10:GLY:H	1:A:11:ARG:H	8	0.17	0.05	0.16
(1,1187)	1:A:28:GLU:HG2	1:A:35:ARG:HA	8	0.16	0.04	0.16
(1,909)	1:A:34:PRO:HB3	1:A:37:ASP:H	8	0.16	0.03	0.15
(1,2090)	1:B:249:ASN:HA	1:B:252:GLN:HB2	7	0.39	0.33	0.29
(1,2090)	1:B:249:ASN:HA	1:B:252:GLN:HB3	7	0.39	0.33	0.29
(1,876)	1:B:213:LEU:HA	1:B:214:LEU:HB3	7	0.35	0.2	0.24
(1,977)	1:A:13:LEU:HB3	1:A:13:LEU:HG	7	0.31	0.01	0.3
(1,1685)	1:A:14:LEU:HB3	1:B:239:LEU:HD11	7	0.27	0.07	0.25

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1685)	1:A:14:LEU:HB3	1:B:239:LEU:HD12	7	0.27	0.07	0.25
(1,1685)	1:A:14:LEU:HB3	1:B:239:LEU:HD13	7	0.27	0.07	0.25
(1,138)	1:B:271:GLU:H	1:B:272:TYR:H	7	0.22	0.09	0.2
(1,127)	1:A:50:GLN:HB3	1:A:51:SER:H	7	0.22	0.05	0.2
(1,910)	1:B:234:PRO:HB3	1:B:237:ASP:H	7	0.19	0.09	0.17
(1,12)	1:B:210:GLY:H	1:B:211:ARG:H	7	0.18	0.05	0.22
(1,370)	1:B:234:PRO:HB3	1:B:236:ALA:H	7	0.15	0.03	0.14
(1,1022)	1:B:228:GLU:HA	1:B:228:GLU:HG3	7	0.15	0.02	0.15
(1,214)	1:B:250:GLN:H	1:B:250:GLN:HB3	7	0.12	0.01	0.11
(1,917)	1:A:25:ASP:HA	1:A:28:GLU:HB3	6	0.3	0.02	0.3
(1,861)	1:A:41:GLU:HA	1:A:44:ASP:HB3	6	0.22	0.03	0.22
(1,197)	1:A:44:ASP:H	1:A:44:ASP:HB3	6	0.21	0.01	0.2
(1,1515)	1:A:27:LEU:HD21	1:B:247:LEU:HG	6	0.19	0.06	0.18
(1,1515)	1:A:27:LEU:HD22	1:B:247:LEU:HG	6	0.19	0.06	0.18
(1,1515)	1:A:27:LEU:HD23	1:B:247:LEU:HG	6	0.19	0.06	0.18
(1,757)	1:A:11:ARG:HB2	1:A:12:ILE:H	6	0.17	0.03	0.18
(1,180)	1:B:232:ASN:H	1:B:232:ASN:HB3	6	0.17	0.01	0.16
(1,117)	1:A:49:ASN:HB2	1:A:50:GLN:H	6	0.17	0.04	0.15
(1,758)	1:B:211:ARG:HB2	1:B:212:ILE:H	6	0.15	0.03	0.14
(1,74)	1:B:235:ARG:HB2	1:B:236:ALA:H	6	0.14	0.03	0.14
(1,698)	1:B:215:ASP:H	1:B:215:ASP:HB2	6	0.14	0.02	0.15
(1,719)	1:A:28:GLU:H	1:A:28:GLU:HB3	6	0.14	0.01	0.14
(1,1021)	1:A:28:GLU:HA	1:A:28:GLU:HG3	6	0.14	0.01	0.14
(1,1030)	1:B:230:GLN:HA	1:B:230:GLN:HG3	6	0.14	0.04	0.12
(1,886)	1:B:216:LEU:HA	1:B:217:SER:HB2	6	0.13	0.03	0.12
(1,1029)	1:A:30:GLN:HA	1:A:30:GLN:HG3	6	0.13	0.02	0.12
(1,2089)	1:A:49:ASN:HA	1:A:52:GLN:HB2	5	0.65	0.29	0.74
(1,2089)	1:A:49:ASN:HA	1:A:52:GLN:HB3	5	0.65	0.29	0.74
(1,875)	1:A:13:LEU:HA	1:A:14:LEU:HB3	5	0.47	0.16	0.49
(1,388)	1:B:248:ILE:HA	1:B:251:SER:H	5	0.41	0.14	0.37
(1,145)	1:A:7:ILE:H	1:A:7:ILE:HB	5	0.36	0.02	0.35
(1,1710)	1:B:233:LEU:HD21	1:B:234:PRO:HD3	5	0.3	0.01	0.3
(1,1710)	1:B:233:LEU:HD22	1:B:234:PRO:HD3	5	0.3	0.01	0.3
(1,1710)	1:B:233:LEU:HD23	1:B:234:PRO:HD3	5	0.3	0.01	0.3
(1,918)	1:B:225:ASP:HA	1:B:228:GLU:HB3	5	0.3	0.07	0.32
(1,1188)	1:B:228:GLU:HG2	1:B:235:ARG:HA	5	0.23	0.1	0.24
(1,1686)	1:A:39:LEU:HD11	1:B:214:LEU:HB3	5	0.22	0.08	0.2
(1,1686)	1:A:39:LEU:HD12	1:B:214:LEU:HB3	5	0.22	0.08	0.2
(1,1686)	1:A:39:LEU:HD13	1:B:214:LEU:HB3	5	0.22	0.08	0.2
(1,198)	1:B:244:ASP:H	1:B:244:ASP:HB3	5	0.21	0.01	0.21
(1,862)	1:B:241:GLU:HA	1:B:244:ASP:HB3	5	0.21	0.06	0.19
(1,752)	1:B:210:GLY:HA2	1:B:211:ARG:H	5	0.2	0.05	0.2

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,539)	1:A:34:PRO:HG3	1:A:37:ASP:H	5	0.14	0.02	0.15
(1,97)	1:A:44:ASP:HB2	1:A:45:GLN:H	5	0.13	0.01	0.13
(1,697)	1:A:15:ASP:H	1:A:15:ASP:HB2	5	0.13	0.01	0.14
(1,1516)	1:A:47:LEU:HG	1:B:227:LEU:HD21	5	0.13	0.03	0.12
(1,1516)	1:A:47:LEU:HG	1:B:227:LEU:HD22	5	0.13	0.03	0.12
(1,1516)	1:A:47:LEU:HG	1:B:227:LEU:HD23	5	0.13	0.03	0.12
(1,395)	1:A:14:LEU:H	1:B:213:LEU:HA	5	0.13	0.02	0.12
(1,98)	1:B:244:ASP:HB2	1:B:245:GLN:H	5	0.12	0.01	0.13
(1,1054)	1:B:240:ARG:HB3	1:B:240:ARG:HD2	5	0.12	0.0	0.12
(1,727)	1:A:35:ARG:H	1:A:35:ARG:HB2	5	0.11	0.0	0.11
(1,432)	1:B:207:ILE:H	1:B:207:ILE:HG13	4	0.5	0.01	0.5
(1,387)	1:A:48:ILE:HA	1:A:51:SER:H	4	0.46	0.13	0.48
(1,937)	1:A:17:SER:HB3	1:A:18:ASN:H	4	0.38	0.15	0.45
(1,146)	1:B:207:ILE:H	1:B:207:ILE:HB	4	0.34	0.03	0.33
(1,978)	1:B:213:LEU:HB3	1:B:213:LEU:HG	4	0.3	0.02	0.3
(1,2093)	1:A:50:GLN:H	1:A:50:GLN:HG2	4	0.29	0.11	0.32
(1,2093)	1:A:50:GLN:H	1:A:50:GLN:HG3	4	0.29	0.11	0.32
(1,1598)	1:A:14:LEU:HD21	1:B:240:ARG:HA	4	0.29	0.06	0.3
(1,1598)	1:A:14:LEU:HD22	1:B:240:ARG:HA	4	0.29	0.06	0.3
(1,1598)	1:A:14:LEU:HD23	1:B:240:ARG:HA	4	0.29	0.06	0.3
(1,149)	1:A:9:MET:H	1:A:9:MET:HB3	4	0.25	0.02	0.26
(1,2121)	1:A:76:LEU:HB2	1:A:76:LEU:HG	4	0.24	0.01	0.24
(1,2121)	1:A:76:LEU:HB3	1:A:76:LEU:HG	4	0.24	0.01	0.24
(1,745)	1:A:8:ASP:HA	1:A:9:MET:H	4	0.22	0.02	0.22
(1,746)	1:B:208:ASP:HA	1:B:209:MET:H	4	0.19	0.03	0.19
(1,885)	1:A:16:LEU:HA	1:A:17:SER:HB2	4	0.16	0.06	0.14
(1,144)	1:B:279:GLU:H	1:B:280:TRP:H	4	0.15	0.01	0.15
(1,118)	1:B:249:ASN:HB2	1:B:250:GLN:H	4	0.15	0.03	0.14
(1,743)	1:A:7:ILE:HB	1:A:8:ASP:H	4	0.14	0.02	0.14
(1,1206)	1:A:46:TYR:HB3	1:B:242:ALA:HA	4	0.14	0.03	0.14
(1,720)	1:B:228:GLU:H	1:B:228:GLU:HB3	4	0.14	0.02	0.15
(1,143)	1:A:79:GLU:H	1:A:80:TRP:H	4	0.14	0.03	0.13
(1,57)	1:A:25:ASP:HB2	1:A:26:ASP:H	4	0.12	0.01	0.12
(1,103)	1:A:45:GLN:HB3	1:A:46:TYR:H	4	0.12	0.01	0.12
(1,907)	1:A:31:ARG:H	1:A:32:ASN:HA	4	0.12	0.01	0.11
(1,1053)	1:A:40:ARG:HB3	1:A:40:ARG:HD2	4	0.12	0.0	0.12
(1,59)	1:A:26:ASP:HB2	1:A:27:LEU:H	4	0.11	0.0	0.11
(1,1072)	1:B:245:GLN:HA	1:B:245:GLN:HG3	4	0.11	0.0	0.11
(1,358)	1:B:229:VAL:HA	1:B:232:ASN:H	3	0.61	0.05	0.6
(1,467)	1:A:50:GLN:H	1:A:50:GLN:HG2	3	0.53	0.04	0.5
(1,1080)	1:B:248:ILE:HA	1:B:248:ILE:HG13	3	0.38	0.04	0.35
(1,209)	1:A:49:ASN:H	1:A:49:ASN:HB3	3	0.36	0.0	0.36

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,554)	1:B:214:LEU:HD21	1:B:215:ASP:H	3	0.36	0.04	0.37
(1,554)	1:B:214:LEU:HD22	1:B:215:ASP:H	3	0.36	0.04	0.37
(1,554)	1:B:214:LEU:HD23	1:B:215:ASP:H	3	0.36	0.04	0.37
(1,1079)	1:A:48:ILE:HA	1:A:48:ILE:HG13	3	0.35	0.0	0.35
(1,210)	1:B:249:ASN:H	1:B:249:ASN:HB3	3	0.34	0.01	0.35
(1,267)	1:A:51:SER:H	1:A:52:GLN:H	3	0.34	0.1	0.4
(1,1333)	1:A:13:LEU:HD11	1:A:14:LEU:H	3	0.34	0.04	0.33
(1,1333)	1:A:13:LEU:HD12	1:A:14:LEU:H	3	0.34	0.04	0.33
(1,1333)	1:A:13:LEU:HD13	1:A:14:LEU:H	3	0.34	0.04	0.33
(1,268)	1:B:251:SER:H	1:B:252:GLN:H	3	0.32	0.07	0.31
(1,2094)	1:B:250:GLN:H	1:B:250:GLN:HG2	3	0.31	0.14	0.41
(1,2094)	1:B:250:GLN:H	1:B:250:GLN:HG3	3	0.31	0.14	0.41
(1,469)	1:A:50:GLN:H	1:A:50:GLN:HG3	3	0.27	0.1	0.32
(1,1597)	1:A:40:ARG:HA	1:B:214:LEU:HD21	3	0.27	0.02	0.27
(1,1597)	1:A:40:ARG:HA	1:B:214:LEU:HD22	3	0.27	0.02	0.27
(1,1597)	1:A:40:ARG:HA	1:B:214:LEU:HD23	3	0.27	0.02	0.27
(1,470)	1:B:250:GLN:H	1:B:250:GLN:HG3	3	0.26	0.1	0.32
(1,929)	1:A:46:TYR:HA	1:A:49:ASN:HB3	3	0.25	0.05	0.23
(1,137)	1:A:71:GLU:H	1:A:72:TYR:H	3	0.24	0.08	0.24
(1,685)	1:A:8:ASP:H	1:A:8:ASP:HB3	3	0.23	0.02	0.24
(1,150)	1:B:209:MET:H	1:B:209:MET:HB3	3	0.22	0.04	0.22
(1,686)	1:B:208:ASP:H	1:B:208:ASP:HB3	3	0.22	0.02	0.23
(1,751)	1:A:10:GLY:HA2	1:A:11:ARG:H	3	0.22	0.07	0.26
(1,930)	1:B:246:TYR:HA	1:B:249:ASN:HB3	3	0.22	0.06	0.24
(1,354)	1:B:227:LEU:HA	1:B:231:ARG:H	3	0.2	0.03	0.2
(1,796)	1:B:254:ALA:HA	1:B:255:ARG:H	3	0.2	0.02	0.18
(1,803)	1:A:18:ASN:HA	1:A:22:LYS:H	3	0.19	0.05	0.22
(1,410)	1:B:214:LEU:HG	1:B:215:ASP:H	3	0.19	0.08	0.13
(1,2122)	1:B:276:LEU:HB2	1:B:276:LEU:HG	3	0.19	0.03	0.19
(1,2122)	1:B:276:LEU:HB3	1:B:276:LEU:HG	3	0.19	0.03	0.19
(1,1722)	1:B:244:ASP:HA	1:B:248:ILE:HD11	3	0.18	0.04	0.17
(1,1722)	1:B:244:ASP:HA	1:B:248:ILE:HD12	3	0.18	0.04	0.17
(1,1722)	1:B:244:ASP:HA	1:B:248:ILE:HD13	3	0.18	0.04	0.17
(1,323)	1:A:12:ILE:H	1:B:213:LEU:HA	3	0.18	0.03	0.17
(1,741)	1:A:7:ILE:HA	1:A:8:ASP:H	3	0.17	0.02	0.18
(1,365)	1:A:29:VAL:HA	1:A:33:LEU:H	3	0.17	0.06	0.14
(1,396)	1:A:13:LEU:HA	1:B:214:LEU:H	3	0.16	0.03	0.16
(1,707)	1:A:18:ASN:H	1:A:18:ASN:HB3	3	0.16	0.01	0.15
(1,1126)	1:B:217:SER:HB2	1:B:220:VAL:HB	3	0.15	0.02	0.16
(1,23)	1:A:14:LEU:HB2	1:A:15:ASP:H	3	0.15	0.02	0.15
(1,400)	1:A:9:MET:HA	1:B:218:ASN:H	3	0.14	0.03	0.12
(1,430)	1:B:207:ILE:H	1:B:207:ILE:HG12	3	0.13	0.02	0.12

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,49)	1:A:23:GLN:HB3	1:A:24:LEU:H	3	0.13	0.03	0.11
(1,177)	1:A:32:ASN:H	1:A:32:ASN:HB2	3	0.12	0.0	0.12
(1,1125)	1:A:17:SER:HB2	1:A:20:VAL:HB	3	0.12	0.01	0.12
(1,213)	1:A:50:GLN:H	1:A:50:GLN:HB3	3	0.12	0.0	0.12
(1,451)	1:A:24:LEU:H	1:A:24:LEU:HG	2	1.06	0.14	1.06
(1,55)	1:A:24:LEU:HB2	1:A:25:ASP:H	2	0.51	0.01	0.51
(1,468)	1:B:250:GLN:H	1:B:250:GLN:HG2	2	0.49	0.0	0.49
(1,1559)	1:A:21:ILE:HA	1:A:24:LEU:HD11	2	0.39	0.1	0.39
(1,1559)	1:A:21:ILE:HA	1:A:24:LEU:HD12	2	0.39	0.1	0.39
(1,1559)	1:A:21:ILE:HA	1:A:24:LEU:HD13	2	0.39	0.1	0.39
(1,1058)	1:B:241:GLU:H	1:B:241:GLU:HG2	2	0.35	0.02	0.35
(1,1404)	1:B:211:ARG:HD3	1:B:213:LEU:HD21	2	0.32	0.04	0.32
(1,1404)	1:B:211:ARG:HD3	1:B:213:LEU:HD22	2	0.32	0.04	0.32
(1,1404)	1:B:211:ARG:HD3	1:B:213:LEU:HD23	2	0.32	0.04	0.32
(1,1062)	1:B:241:GLU:H	1:B:241:GLU:HG3	2	0.31	0.03	0.31
(1,1709)	1:A:33:LEU:HD21	1:A:34:PRO:HD3	2	0.3	0.02	0.3
(1,1709)	1:A:33:LEU:HD22	1:A:34:PRO:HD3	2	0.3	0.02	0.3
(1,1709)	1:A:33:LEU:HD23	1:A:34:PRO:HD3	2	0.3	0.02	0.3
(1,512)	1:B:250:GLN:HA	1:B:250:GLN:HE22	2	0.29	0.08	0.29
(1,1501)	1:A:20:VAL:HG11	1:A:24:LEU:HG	2	0.28	0.01	0.28
(1,1501)	1:A:20:VAL:HG12	1:A:24:LEU:HG	2	0.28	0.01	0.28
(1,1501)	1:A:20:VAL:HG13	1:A:24:LEU:HG	2	0.28	0.01	0.28
(1,250)	1:B:232:ASN:H	1:B:233:LEU:H	2	0.27	0.0	0.27
(1,1158)	1:B:231:ARG:HD2	1:B:233:LEU:H	2	0.26	0.05	0.26
(1,1158)	1:B:231:ARG:HD3	1:B:233:LEU:H	2	0.26	0.05	0.26
(1,125)	1:A:50:GLN:HB2	1:A:51:SER:H	2	0.26	0.02	0.26
(1,409)	1:A:14:LEU:HG	1:A:15:ASP:H	2	0.22	0.02	0.22
(1,795)	1:A:54:ALA:HA	1:A:55:ARG:H	2	0.22	0.02	0.22
(1,2120)	1:B:276:LEU:H	1:B:276:LEU:HD11	2	0.22	0.07	0.22
(1,2120)	1:B:276:LEU:H	1:B:276:LEU:HD12	2	0.22	0.07	0.22
(1,2120)	1:B:276:LEU:H	1:B:276:LEU:HD13	2	0.22	0.07	0.22
(1,2120)	1:B:276:LEU:H	1:B:276:LEU:HD21	2	0.22	0.07	0.22
(1,2120)	1:B:276:LEU:H	1:B:276:LEU:HD22	2	0.22	0.07	0.22
(1,2120)	1:B:276:LEU:H	1:B:276:LEU:HD23	2	0.22	0.07	0.22
(1,407)	1:A:11:ARG:HG3	1:A:12:ILE:H	2	0.21	0.02	0.21
(1,804)	1:B:218:ASN:HA	1:B:222:LYS:H	2	0.21	0.1	0.21
(1,1024)	1:B:230:GLN:H	1:B:230:GLN:HG2	2	0.21	0.03	0.21
(1,405)	1:A:11:ARG:HG2	1:A:12:ILE:H	2	0.2	0.08	0.2
(1,824)	1:B:222:LYS:HA	1:B:225:ASP:HB3	2	0.2	0.01	0.2
(1,1787)	1:A:11:ARG:HG2	1:A:12:ILE:HA	2	0.2	0.04	0.2
(1,1787)	1:A:11:ARG:HG3	1:A:12:ILE:HA	2	0.2	0.04	0.2
(1,390)	1:A:10:GLY:H	1:B:216:LEU:H	2	0.18	0.02	0.18

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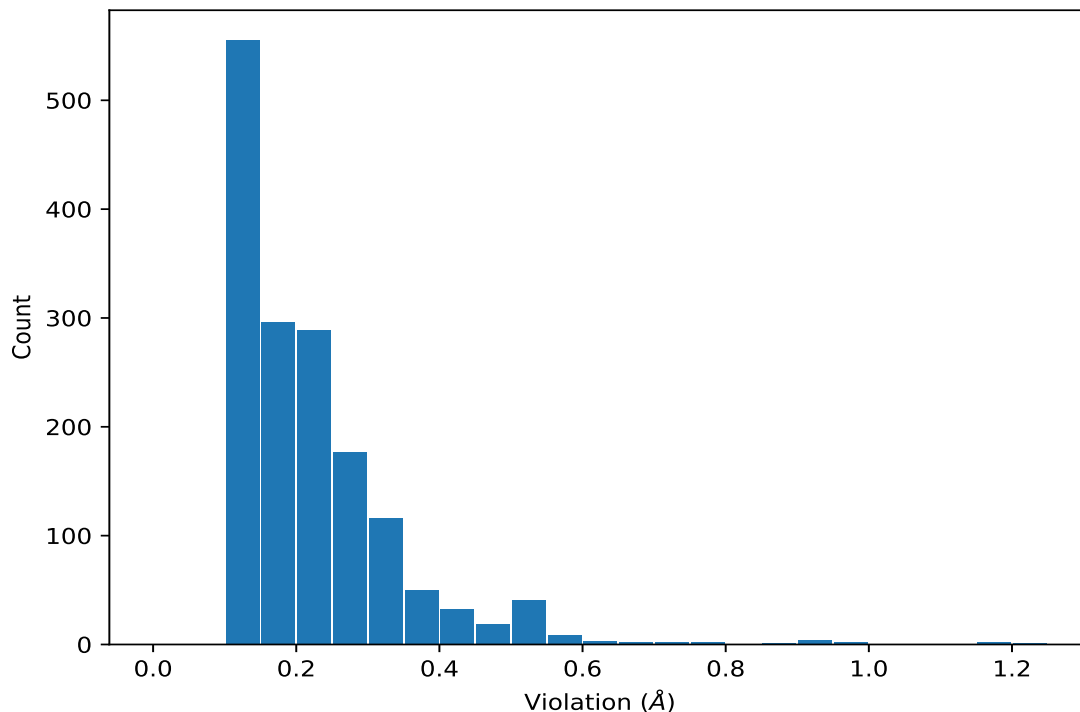
Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,807)	1:A:19:GLU:HA	1:A:23:GLN:H	2	0.18	0.05	0.18
(1,823)	1:A:22:LYS:HA	1:A:25:ASP:HB3	2	0.18	0.04	0.18
(1,724)	1:B:233:LEU:H	1:B:233:LEU:HB2	2	0.18	0.04	0.18
(1,375)	1:A:44:ASP:HA	1:A:48:ILE:H	2	0.17	0.02	0.17
(1,169)	1:A:25:ASP:H	1:A:25:ASP:HB3	2	0.16	0.01	0.16
(1,1334)	1:B:213:LEU:HD11	1:B:214:LEU:H	2	0.16	0.04	0.16
(1,1334)	1:B:213:LEU:HD12	1:B:214:LEU:H	2	0.16	0.04	0.16
(1,1334)	1:B:213:LEU:HD13	1:B:214:LEU:H	2	0.16	0.04	0.16
(1,3)	1:A:6:GLY:H	1:A:7:ILE:H	2	0.16	0.02	0.16
(1,1112)	1:A:17:SER:HA	1:B:209:MET:HG2	2	0.16	0.04	0.16
(1,1114)	1:A:17:SER:HA	1:B:209:MET:HG3	2	0.16	0.02	0.16
(1,4)	1:B:206:GLY:H	1:B:207:ILE:H	2	0.15	0.0	0.15
(1,24)	1:B:214:LEU:HB2	1:B:215:ASP:H	2	0.15	0.0	0.15
(1,345)	1:A:27:LEU:HA	1:A:29:VAL:H	2	0.15	0.0	0.15
(1,58)	1:B:225:ASP:HB2	1:B:226:ASP:H	2	0.14	0.01	0.14
(1,170)	1:B:225:ASP:H	1:B:225:ASP:HB3	2	0.14	0.02	0.14
(1,339)	1:A:22:LYS:HA	1:A:25:ASP:H	2	0.14	0.01	0.14
(1,651)	1:A:27:LEU:H	1:A:38:LEU:HD11	2	0.14	0.01	0.14
(1,651)	1:A:27:LEU:H	1:A:38:LEU:HD12	2	0.14	0.01	0.14
(1,651)	1:A:27:LEU:H	1:A:38:LEU:HD13	2	0.14	0.01	0.14
(1,908)	1:B:231:ARG:H	1:B:232:ASN:HA	2	0.14	0.01	0.14
(1,749)	1:A:9:MET:HB2	1:A:10:GLY:H	2	0.13	0.0	0.13
(1,1020)	1:B:228:GLU:HA	1:B:228:GLU:HG2	2	0.13	0.01	0.13
(1,1118)	1:A:14:LEU:HB2	1:B:212:ILE:HB	2	0.13	0.01	0.13
(1,157)	1:A:15:ASP:H	1:A:15:ASP:HB3	2	0.12	0.02	0.12
(1,211)	1:A:50:GLN:H	1:A:50:GLN:HB2	2	0.12	0.01	0.12
(1,1157)	1:A:31:ARG:HD2	1:A:33:LEU:H	2	0.12	0.01	0.12
(1,1157)	1:A:31:ARG:HD3	1:A:33:LEU:H	2	0.12	0.01	0.12
(1,123)	1:A:50:GLN:HA	1:A:51:SER:H	2	0.12	0.0	0.12
(1,511)	1:A:50:GLN:HA	1:A:50:GLN:HE22	2	0.12	0.0	0.12
(1,652)	1:B:227:LEU:H	1:B:238:LEU:HD11	2	0.12	0.0	0.12
(1,652)	1:B:227:LEU:H	1:B:238:LEU:HD12	2	0.12	0.0	0.12
(1,652)	1:B:227:LEU:H	1:B:238:LEU:HD13	2	0.12	0.0	0.12
(1,728)	1:B:235:ARG:H	1:B:235:ARG:HB2	2	0.12	0.0	0.12
(1,1071)	1:A:45:GLN:HA	1:A:45:GLN:HG3	2	0.12	0.0	0.12
(1,14)	1:B:211:ARG:HB3	1:B:212:ILE:H	2	0.11	0.0	0.11

<sup>1</sup>Number of violated models, <sup>2</sup>Standard deviation

## 9.5 All violated distance restraints [i](#)

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

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



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

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

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,451)	1:A:24:LEU:H	1:A:24:LEU:HG	20	1.21
(1,2090)	1:B:249:ASN:HA	1:B:252:GLN:HB2	6	1.18
(1,2090)	1:B:249:ASN:HA	1:B:252:GLN:HB3	6	1.18
(1,2089)	1:A:49:ASN:HA	1:A:52:GLN:HB2	14	0.97
(1,2089)	1:A:49:ASN:HA	1:A:52:GLN:HB3	14	0.97
(1,2089)	1:A:49:ASN:HA	1:A:52:GLN:HB2	16	0.94
(1,2089)	1:A:49:ASN:HA	1:A:52:GLN:HB3	16	0.94
(1,451)	1:A:24:LEU:H	1:A:24:LEU:HG	18	0.92
(1,454)	1:B:227:LEU:H	1:B:227:LEU:HG	11	0.9
(1,454)	1:B:227:LEU:H	1:B:227:LEU:HG	18	0.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,453)	1:A:27:LEU:H	1:A:27:LEU:HG	18	0.79
(1,540)	1:B:234:PRO:HG3	1:B:237:ASP:H	11	0.75
(1,2089)	1:A:49:ASN:HA	1:A:52:GLN:HB2	13	0.74
(1,2089)	1:A:49:ASN:HA	1:A:52:GLN:HB3	13	0.74
(1,388)	1:B:248:ILE:HA	1:B:251:SER:H	6	0.69
(1,358)	1:B:229:VAL:HA	1:B:232:ASN:H	12	0.68
(1,876)	1:B:213:LEU:HA	1:B:214:LEU:HB3	20	0.64
(1,1013)	1:A:23:GLN:HB3	1:A:23:GLN:HG2	17	0.64
(1,875)	1:A:13:LEU:HA	1:A:14:LEU:HB3	6	0.62
(1,387)	1:A:48:ILE:HA	1:A:51:SER:H	16	0.6
(1,358)	1:B:229:VAL:HA	1:B:232:ASN:H	6	0.6
(1,416)	1:B:240:ARG:HG2	1:B:241:GLU:H	17	0.59
(1,875)	1:A:13:LEU:HA	1:A:14:LEU:HB3	9	0.58
(1,467)	1:A:50:GLN:H	1:A:50:GLN:HG2	14	0.58
(1,452)	1:B:224:LEU:H	1:B:224:LEU:HG	14	0.57
(1,358)	1:B:229:VAL:HA	1:B:232:ASN:H	5	0.56
(1,876)	1:B:213:LEU:HA	1:B:214:LEU:HB3	11	0.55
(1,387)	1:A:48:ILE:HA	1:A:51:SER:H	14	0.55
(1,1094)	1:B:276:LEU:HB3	1:B:276:LEU:HG	3	0.54
(1,1094)	1:B:276:LEU:HB3	1:B:276:LEU:HG	5	0.54
(1,1094)	1:B:276:LEU:HB3	1:B:276:LEU:HG	11	0.54
(1,1093)	1:A:76:LEU:HB3	1:A:76:LEU:HG	5	0.54
(1,415)	1:A:40:ARG:HG2	1:A:41:GLU:H	16	0.53
(1,1094)	1:B:276:LEU:HB3	1:B:276:LEU:HG	8	0.53
(1,1094)	1:B:276:LEU:HB3	1:B:276:LEU:HG	10	0.53
(1,1094)	1:B:276:LEU:HB3	1:B:276:LEU:HG	17	0.53
(1,1094)	1:B:276:LEU:HB3	1:B:276:LEU:HG	20	0.53
(1,1093)	1:A:76:LEU:HB3	1:A:76:LEU:HG	3	0.53
(1,1093)	1:A:76:LEU:HB3	1:A:76:LEU:HG	4	0.53
(1,1093)	1:A:76:LEU:HB3	1:A:76:LEU:HG	10	0.53
(1,1093)	1:A:76:LEU:HB3	1:A:76:LEU:HG	13	0.53
(1,1093)	1:A:76:LEU:HB3	1:A:76:LEU:HG	19	0.53
(1,1093)	1:A:76:LEU:HB3	1:A:76:LEU:HG	20	0.53
(1,1092)	1:B:276:LEU:HB2	1:B:276:LEU:HG	6	0.53
(1,1092)	1:B:276:LEU:HB2	1:B:276:LEU:HG	7	0.53
(1,1092)	1:B:276:LEU:HB2	1:B:276:LEU:HG	13	0.53
(1,1092)	1:B:276:LEU:HB2	1:B:276:LEU:HG	15	0.53
(1,1092)	1:B:276:LEU:HB2	1:B:276:LEU:HG	19	0.53
(1,1091)	1:A:76:LEU:HB2	1:A:76:LEU:HG	1	0.53
(1,1091)	1:A:76:LEU:HB2	1:A:76:LEU:HG	7	0.53
(1,1091)	1:A:76:LEU:HB2	1:A:76:LEU:HG	12	0.53
(1,1091)	1:A:76:LEU:HB2	1:A:76:LEU:HG	14	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1091)	1:A:76:LEU:HB2	1:A:76:LEU:HG	15	0.53
(1,1091)	1:A:76:LEU:HB2	1:A:76:LEU:HG	17	0.53
(1,876)	1:B:213:LEU:HA	1:B:214:LEU:HB3	15	0.52
(1,55)	1:A:24:LEU:HB2	1:A:25:ASP:H	18	0.52
(1,1560)	1:B:221:ILE:HA	1:B:224:LEU:HD11	14	0.52
(1,1560)	1:B:221:ILE:HA	1:B:224:LEU:HD12	14	0.52
(1,1560)	1:B:221:ILE:HA	1:B:224:LEU:HD13	14	0.52
(1,1092)	1:B:276:LEU:HB2	1:B:276:LEU:HG	4	0.52
(1,432)	1:B:207:ILE:H	1:B:207:ILE:HG13	8	0.51
(1,1092)	1:B:276:LEU:HB2	1:B:276:LEU:HG	1	0.51
(1,938)	1:B:217:SER:HB3	1:B:218:ASN:H	1	0.5
(1,937)	1:A:17:SER:HB3	1:A:18:ASN:H	19	0.5
(1,55)	1:A:24:LEU:HB2	1:A:25:ASP:H	20	0.5
(1,467)	1:A:50:GLN:H	1:A:50:GLN:HG2	4	0.5
(1,467)	1:A:50:GLN:H	1:A:50:GLN:HG2	8	0.5
(1,432)	1:B:207:ILE:H	1:B:207:ILE:HG13	12	0.5
(1,432)	1:B:207:ILE:H	1:B:207:ILE:HG13	15	0.5
(1,875)	1:A:13:LEU:HA	1:A:14:LEU:HB3	15	0.49
(1,468)	1:B:250:GLN:H	1:B:250:GLN:HG2	10	0.49
(1,468)	1:B:250:GLN:H	1:B:250:GLN:HG2	12	0.49
(1,431)	1:A:7:ILE:H	1:A:7:ILE:HG13	3	0.49
(1,1559)	1:A:21:ILE:HA	1:A:24:LEU:HD11	20	0.49
(1,1559)	1:A:21:ILE:HA	1:A:24:LEU:HD12	20	0.49
(1,1559)	1:A:21:ILE:HA	1:A:24:LEU:HD13	20	0.49
(1,1094)	1:B:276:LEU:HB3	1:B:276:LEU:HG	18	0.49
(1,875)	1:A:13:LEU:HA	1:A:14:LEU:HB3	1	0.48
(1,432)	1:B:207:ILE:H	1:B:207:ILE:HG13	14	0.48
(1,1093)	1:A:76:LEU:HB3	1:A:76:LEU:HG	9	0.48
(1,1093)	1:A:76:LEU:HB3	1:A:76:LEU:HG	11	0.48
(1,762)	1:B:212:ILE:HB	1:B:213:LEU:H	1	0.47
(1,1101)	1:A:16:LEU:HG	1:A:17:SER:H	18	0.47
(1,937)	1:A:17:SER:HB3	1:A:18:ASN:H	8	0.45
(1,937)	1:A:17:SER:HB3	1:A:18:ASN:H	17	0.45
(1,1223)	1:A:20:VAL:HA	1:A:23:GLN:HG2	20	0.45
(1,1091)	1:A:76:LEU:HB2	1:A:76:LEU:HG	6	0.45
(1,1091)	1:A:76:LEU:HB2	1:A:76:LEU:HG	8	0.45
(1,1223)	1:A:20:VAL:HA	1:A:23:GLN:HG2	18	0.44
(1,716)	1:B:226:ASP:H	1:B:226:ASP:HB3	15	0.43
(1,1080)	1:B:248:ILE:HA	1:B:248:ILE:HG13	20	0.43
(1,1051)	1:A:40:ARG:HB3	1:A:40:ARG:HG2	16	0.43
(1,781)	1:A:29:VAL:HB	1:A:30:GLN:H	19	0.42
(1,268)	1:B:251:SER:H	1:B:252:GLN:H	12	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,138)	1:B:271:GLU:H	1:B:272:TYR:H	2	0.42
(1,1052)	1:B:240:ARG:HB3	1:B:240:ARG:HG2	17	0.42
(1,1008)	1:B:223:GLN:H	1:B:223:GLN:HG2	7	0.42
(1,849)	1:A:37:ASP:HA	1:A:40:ARG:HB3	16	0.41
(1,762)	1:B:212:ILE:HB	1:B:213:LEU:H	6	0.41
(1,761)	1:A:12:ILE:HB	1:A:13:LEU:H	18	0.41
(1,76)	1:B:235:ARG:HB3	1:B:236:ALA:H	20	0.41
(1,553)	1:A:14:LEU:HD21	1:A:15:ASP:H	11	0.41
(1,553)	1:A:14:LEU:HD22	1:A:15:ASP:H	11	0.41
(1,553)	1:A:14:LEU:HD23	1:A:15:ASP:H	11	0.41
(1,267)	1:A:51:SER:H	1:A:52:GLN:H	4	0.41
(1,2094)	1:B:250:GLN:H	1:B:250:GLN:HG2	10	0.41
(1,2094)	1:B:250:GLN:H	1:B:250:GLN:HG3	10	0.41
(1,2094)	1:B:250:GLN:H	1:B:250:GLN:HG2	12	0.41
(1,2094)	1:B:250:GLN:H	1:B:250:GLN:HG3	12	0.41
(1,2093)	1:A:50:GLN:H	1:A:50:GLN:HG2	8	0.41
(1,2093)	1:A:50:GLN:H	1:A:50:GLN:HG3	8	0.41
(1,910)	1:B:234:PRO:HB3	1:B:237:ASP:H	5	0.4
(1,554)	1:B:214:LEU:HD21	1:B:215:ASP:H	2	0.4
(1,554)	1:B:214:LEU:HD22	1:B:215:ASP:H	2	0.4
(1,554)	1:B:214:LEU:HD23	1:B:215:ASP:H	2	0.4
(1,388)	1:B:248:ILE:HA	1:B:251:SER:H	2	0.4
(1,387)	1:A:48:ILE:HA	1:A:51:SER:H	13	0.4
(1,267)	1:A:51:SER:H	1:A:52:GLN:H	16	0.4
(1,223)	1:A:7:ILE:H	1:A:8:ASP:H	1	0.4
(1,146)	1:B:207:ILE:H	1:B:207:ILE:HB	9	0.4
(1,1224)	1:B:220:VAL:HA	1:B:223:GLN:HG2	2	0.4
(1,145)	1:A:7:ILE:H	1:A:7:ILE:HB	8	0.39
(1,1333)	1:A:13:LEU:HD11	1:A:14:LEU:H	18	0.39
(1,1333)	1:A:13:LEU:HD12	1:A:14:LEU:H	18	0.39
(1,1333)	1:A:13:LEU:HD13	1:A:14:LEU:H	18	0.39
(1,1224)	1:B:220:VAL:HA	1:B:223:GLN:HG2	5	0.39
(1,1223)	1:A:20:VAL:HA	1:A:23:GLN:HG2	15	0.39
(1,850)	1:B:237:ASP:HA	1:B:240:ARG:HB3	17	0.38
(1,761)	1:A:12:ILE:HB	1:A:13:LEU:H	9	0.38
(1,1685)	1:A:14:LEU:HB3	1:B:239:LEU:HD11	6	0.38
(1,1685)	1:A:14:LEU:HB3	1:B:239:LEU:HD12	6	0.38
(1,1685)	1:A:14:LEU:HB3	1:B:239:LEU:HD13	6	0.38
(1,145)	1:A:7:ILE:H	1:A:7:ILE:HB	9	0.38
(1,802)	1:B:218:ASN:HA	1:B:221:ILE:HB	1	0.37
(1,554)	1:B:214:LEU:HD21	1:B:215:ASP:H	13	0.37
(1,554)	1:B:214:LEU:HD22	1:B:215:ASP:H	13	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,554)	1:B:214:LEU:HD23	1:B:215:ASP:H	13	0.37
(1,552)	1:B:214:LEU:HD11	1:B:215:ASP:H	6	0.37
(1,552)	1:B:214:LEU:HD12	1:B:215:ASP:H	6	0.37
(1,552)	1:B:214:LEU:HD13	1:B:215:ASP:H	6	0.37
(1,512)	1:B:250:GLN:HA	1:B:250:GLN:HE22	14	0.37
(1,388)	1:B:248:ILE:HA	1:B:251:SER:H	8	0.37
(1,209)	1:A:49:ASN:H	1:A:49:ASN:HB3	11	0.37
(1,1685)	1:A:14:LEU:HB3	1:B:239:LEU:HD11	1	0.37
(1,1685)	1:A:14:LEU:HB3	1:B:239:LEU:HD12	1	0.37
(1,1685)	1:A:14:LEU:HB3	1:B:239:LEU:HD13	1	0.37
(1,1517)	1:A:27:LEU:HD11	1:A:30:GLN:HB2	1	0.37
(1,1517)	1:A:27:LEU:HD11	1:A:30:GLN:HB3	1	0.37
(1,1517)	1:A:27:LEU:HD12	1:A:30:GLN:HB2	1	0.37
(1,1517)	1:A:27:LEU:HD12	1:A:30:GLN:HB3	1	0.37
(1,1517)	1:A:27:LEU:HD13	1:A:30:GLN:HB2	1	0.37
(1,1517)	1:A:27:LEU:HD13	1:A:30:GLN:HB3	1	0.37
(1,1224)	1:B:220:VAL:HA	1:B:223:GLN:HG2	15	0.37
(1,1223)	1:A:20:VAL:HA	1:A:23:GLN:HG2	11	0.37
(1,1058)	1:B:241:GLU:H	1:B:241:GLU:HG2	6	0.37
(1,1010)	1:B:223:GLN:HA	1:B:223:GLN:HG2	7	0.37
(1,918)	1:B:225:ASP:HA	1:B:228:GLU:HB3	3	0.36
(1,762)	1:B:212:ILE:HB	1:B:213:LEU:H	16	0.36
(1,469)	1:A:50:GLN:H	1:A:50:GLN:HG3	13	0.36
(1,209)	1:A:49:ASN:H	1:A:49:ASN:HB3	4	0.36
(1,209)	1:A:49:ASN:H	1:A:49:ASN:HB3	9	0.36
(1,1598)	1:A:14:LEU:HD21	1:B:240:ARG:HA	15	0.36
(1,1598)	1:A:14:LEU:HD22	1:B:240:ARG:HA	15	0.36
(1,1598)	1:A:14:LEU:HD23	1:B:240:ARG:HA	15	0.36
(1,1404)	1:B:211:ARG:HD3	1:B:213:LEU:HD21	13	0.36
(1,1404)	1:B:211:ARG:HD3	1:B:213:LEU:HD22	13	0.36
(1,1404)	1:B:211:ARG:HD3	1:B:213:LEU:HD23	13	0.36
(1,1079)	1:A:48:ILE:HA	1:A:48:ILE:HG13	5	0.36
(1,1057)	1:A:41:GLU:H	1:A:41:GLU:HG2	18	0.36
(1,1050)	1:B:240:ARG:HA	1:B:240:ARG:HG3	17	0.36
(1,1049)	1:A:40:ARG:HA	1:A:40:ARG:HG3	16	0.36
(1,918)	1:B:225:ASP:HA	1:B:228:GLU:HB3	13	0.35
(1,210)	1:B:249:ASN:H	1:B:249:ASN:HB3	5	0.35
(1,210)	1:B:249:ASN:H	1:B:249:ASN:HB3	12	0.35
(1,2090)	1:B:249:ASN:HA	1:B:252:GLN:HB2	16	0.35
(1,2090)	1:B:249:ASN:HA	1:B:252:GLN:HB3	16	0.35
(1,145)	1:A:7:ILE:H	1:A:7:ILE:HB	2	0.35
(1,1224)	1:B:220:VAL:HA	1:B:223:GLN:HG2	3	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1223)	1:A:20:VAL:HA	1:A:23:GLN:HG2	6	0.35
(1,1223)	1:A:20:VAL:HA	1:A:23:GLN:HG2	16	0.35
(1,1080)	1:B:248:ILE:HA	1:B:248:ILE:HG13	2	0.35
(1,1080)	1:B:248:ILE:HA	1:B:248:ILE:HG13	9	0.35
(1,1079)	1:A:48:ILE:HA	1:A:48:ILE:HG13	8	0.35
(1,1079)	1:A:48:ILE:HA	1:A:48:ILE:HG13	15	0.35
(1,917)	1:A:25:ASP:HA	1:A:28:GLU:HB3	1	0.34
(1,453)	1:A:27:LEU:H	1:A:27:LEU:HG	10	0.34
(1,2093)	1:A:50:GLN:H	1:A:50:GLN:HG2	14	0.34
(1,2093)	1:A:50:GLN:H	1:A:50:GLN:HG3	14	0.34
(1,194)	1:B:240:ARG:H	1:B:240:ARG:HB3	17	0.34
(1,1686)	1:A:39:LEU:HD11	1:B:214:LEU:HB3	11	0.34
(1,1686)	1:A:39:LEU:HD12	1:B:214:LEU:HB3	11	0.34
(1,1686)	1:A:39:LEU:HD13	1:B:214:LEU:HB3	11	0.34
(1,145)	1:A:7:ILE:H	1:A:7:ILE:HB	1	0.34
(1,1224)	1:B:220:VAL:HA	1:B:223:GLN:HG2	17	0.34
(1,1223)	1:A:20:VAL:HA	1:A:23:GLN:HG2	4	0.34
(1,1188)	1:B:228:GLU:HG2	1:B:235:ARG:HA	2	0.34
(1,1062)	1:B:241:GLU:H	1:B:241:GLU:HG3	6	0.34
(1,982)	1:B:214:LEU:H	1:B:214:LEU:HG	6	0.33
(1,978)	1:B:213:LEU:HB3	1:B:213:LEU:HG	9	0.33
(1,977)	1:A:13:LEU:HB3	1:A:13:LEU:HG	19	0.33
(1,972)	1:B:213:LEU:HB2	1:B:213:LEU:HG	2	0.33
(1,972)	1:B:213:LEU:HB2	1:B:213:LEU:HG	7	0.33
(1,972)	1:B:213:LEU:HB2	1:B:213:LEU:HG	8	0.33
(1,972)	1:B:213:LEU:HB2	1:B:213:LEU:HG	12	0.33
(1,972)	1:B:213:LEU:HB2	1:B:213:LEU:HG	16	0.33
(1,972)	1:B:213:LEU:HB2	1:B:213:LEU:HG	17	0.33
(1,972)	1:B:213:LEU:HB2	1:B:213:LEU:HG	20	0.33
(1,971)	1:A:13:LEU:HB2	1:A:13:LEU:HG	2	0.33
(1,971)	1:A:13:LEU:HB2	1:A:13:LEU:HG	4	0.33
(1,971)	1:A:13:LEU:HB2	1:A:13:LEU:HG	5	0.33
(1,971)	1:A:13:LEU:HB2	1:A:13:LEU:HG	7	0.33
(1,971)	1:A:13:LEU:HB2	1:A:13:LEU:HG	8	0.33
(1,971)	1:A:13:LEU:HB2	1:A:13:LEU:HG	11	0.33
(1,971)	1:A:13:LEU:HB2	1:A:13:LEU:HG	14	0.33
(1,971)	1:A:13:LEU:HB2	1:A:13:LEU:HG	17	0.33
(1,761)	1:A:12:ILE:HB	1:A:13:LEU:H	13	0.33
(1,702)	1:B:217:SER:H	1:B:217:SER:HB3	19	0.33
(1,470)	1:B:250:GLN:H	1:B:250:GLN:HG3	12	0.33
(1,454)	1:B:227:LEU:H	1:B:227:LEU:HG	2	0.33
(1,224)	1:B:207:ILE:H	1:B:208:ASP:H	7	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,210)	1:B:249:ASN:H	1:B:249:ASN:HB3	20	0.33
(1,2090)	1:B:249:ASN:HA	1:B:252:GLN:HB2	9	0.33
(1,2090)	1:B:249:ASN:HA	1:B:252:GLN:HB3	9	0.33
(1,146)	1:B:207:ILE:H	1:B:207:ILE:HB	3	0.33
(1,146)	1:B:207:ILE:H	1:B:207:ILE:HB	5	0.33
(1,145)	1:A:7:ILE:H	1:A:7:ILE:HB	14	0.33
(1,137)	1:A:71:GLU:H	1:A:72:TYR:H	11	0.33
(1,1333)	1:A:13:LEU:HD11	1:A:14:LEU:H	16	0.33
(1,1333)	1:A:13:LEU:HD12	1:A:14:LEU:H	16	0.33
(1,1333)	1:A:13:LEU:HD13	1:A:14:LEU:H	16	0.33
(1,1224)	1:B:220:VAL:HA	1:B:223:GLN:HG2	11	0.33
(1,1224)	1:B:220:VAL:HA	1:B:223:GLN:HG2	18	0.33
(1,1188)	1:B:228:GLU:HG2	1:B:235:ARG:HA	11	0.33
(1,1058)	1:B:241:GLU:H	1:B:241:GLU:HG2	4	0.33
(1,977)	1:A:13:LEU:HB3	1:A:13:LEU:HG	3	0.32
(1,977)	1:A:13:LEU:HB3	1:A:13:LEU:HG	20	0.32
(1,972)	1:B:213:LEU:HB2	1:B:213:LEU:HG	6	0.32
(1,972)	1:B:213:LEU:HB2	1:B:213:LEU:HG	10	0.32
(1,972)	1:B:213:LEU:HB2	1:B:213:LEU:HG	14	0.32
(1,972)	1:B:213:LEU:HB2	1:B:213:LEU:HG	15	0.32
(1,972)	1:B:213:LEU:HB2	1:B:213:LEU:HG	19	0.32
(1,971)	1:A:13:LEU:HB2	1:A:13:LEU:HG	10	0.32
(1,971)	1:A:13:LEU:HB2	1:A:13:LEU:HG	13	0.32
(1,929)	1:A:46:TYR:HA	1:A:49:ASN:HB3	11	0.32
(1,918)	1:B:225:ASP:HA	1:B:228:GLU:HB3	5	0.32
(1,917)	1:A:25:ASP:HA	1:A:28:GLU:HB3	13	0.32
(1,862)	1:B:241:GLU:HA	1:B:244:ASP:HB3	5	0.32
(1,762)	1:B:212:ILE:HB	1:B:213:LEU:H	17	0.32
(1,761)	1:A:12:ILE:HB	1:A:13:LEU:H	5	0.32
(1,702)	1:B:217:SER:H	1:B:217:SER:HB3	3	0.32
(1,625)	1:A:61:ILE:H	1:A:61:ILE:HD11	13	0.32
(1,625)	1:A:61:ILE:H	1:A:61:ILE:HD12	13	0.32
(1,625)	1:A:61:ILE:H	1:A:61:ILE:HD13	13	0.32
(1,470)	1:B:250:GLN:H	1:B:250:GLN:HG3	10	0.32
(1,469)	1:A:50:GLN:H	1:A:50:GLN:HG3	8	0.32
(1,388)	1:B:248:ILE:HA	1:B:251:SER:H	9	0.32
(1,366)	1:B:229:VAL:HA	1:B:233:LEU:H	19	0.32
(1,2089)	1:A:49:ASN:HA	1:A:52:GLN:HB2	19	0.32
(1,2089)	1:A:49:ASN:HA	1:A:52:GLN:HB3	19	0.32
(1,193)	1:A:40:ARG:H	1:A:40:ARG:HB3	16	0.32
(1,1709)	1:A:33:LEU:HD21	1:A:34:PRO:HD3	10	0.32
(1,1709)	1:A:33:LEU:HD22	1:A:34:PRO:HD3	10	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1709)	1:A:33:LEU:HD23	1:A:34:PRO:HD3	10	0.32
(1,1598)	1:A:14:LEU:HD21	1:B:240:ARG:HA	9	0.32
(1,1598)	1:A:14:LEU:HD22	1:B:240:ARG:HA	9	0.32
(1,1598)	1:A:14:LEU:HD23	1:B:240:ARG:HA	9	0.32
(1,146)	1:B:207:ILE:H	1:B:207:ILE:HB	11	0.32
(1,1224)	1:B:220:VAL:HA	1:B:223:GLN:HG2	9	0.32
(1,1224)	1:B:220:VAL:HA	1:B:223:GLN:HG2	12	0.32
(1,1223)	1:A:20:VAL:HA	1:A:23:GLN:HG2	2	0.32
(1,1223)	1:A:20:VAL:HA	1:A:23:GLN:HG2	5	0.32
(1,1223)	1:A:20:VAL:HA	1:A:23:GLN:HG2	13	0.32
(1,972)	1:B:213:LEU:HB2	1:B:213:LEU:HG	13	0.31
(1,819)	1:A:21:ILE:HA	1:A:24:LEU:HB2	18	0.31
(1,804)	1:B:218:ASN:HA	1:B:222:LYS:H	1	0.31
(1,554)	1:B:214:LEU:HD21	1:B:215:ASP:H	8	0.31
(1,554)	1:B:214:LEU:HD22	1:B:215:ASP:H	8	0.31
(1,554)	1:B:214:LEU:HD23	1:B:215:ASP:H	8	0.31
(1,268)	1:B:251:SER:H	1:B:252:GLN:H	4	0.31
(1,1710)	1:B:233:LEU:HD21	1:B:234:PRO:HD3	18	0.31
(1,1710)	1:B:233:LEU:HD22	1:B:234:PRO:HD3	18	0.31
(1,1710)	1:B:233:LEU:HD23	1:B:234:PRO:HD3	18	0.31
(1,1158)	1:B:231:ARG:HD2	1:B:233:LEU:H	14	0.31
(1,1158)	1:B:231:ARG:HD3	1:B:233:LEU:H	14	0.31
(1,1102)	1:B:216:LEU:HG	1:B:217:SER:H	8	0.31
(1,1017)	1:A:27:LEU:HA	1:A:27:LEU:HG	15	0.31
(1,1003)	1:A:23:GLN:HA	1:A:23:GLN:HG3	17	0.31
(1,978)	1:B:213:LEU:HB3	1:B:213:LEU:HG	1	0.3
(1,978)	1:B:213:LEU:HB3	1:B:213:LEU:HG	18	0.3
(1,977)	1:A:13:LEU:HB3	1:A:13:LEU:HG	1	0.3
(1,977)	1:A:13:LEU:HB3	1:A:13:LEU:HG	6	0.3
(1,977)	1:A:13:LEU:HB3	1:A:13:LEU:HG	16	0.3
(1,977)	1:A:13:LEU:HB3	1:A:13:LEU:HG	18	0.3
(1,972)	1:B:213:LEU:HB2	1:B:213:LEU:HG	4	0.3
(1,917)	1:A:25:ASP:HA	1:A:28:GLU:HB3	3	0.3
(1,917)	1:A:25:ASP:HA	1:A:28:GLU:HB3	12	0.3
(1,814)	1:B:220:VAL:HA	1:B:223:GLN:HB3	7	0.3
(1,695)	1:A:13:LEU:H	1:A:13:LEU:HB3	19	0.3
(1,453)	1:A:27:LEU:H	1:A:27:LEU:HG	4	0.3
(1,410)	1:B:214:LEU:HG	1:B:215:ASP:H	20	0.3
(1,1710)	1:B:233:LEU:HD21	1:B:234:PRO:HD3	1	0.3
(1,1710)	1:B:233:LEU:HD22	1:B:234:PRO:HD3	1	0.3
(1,1710)	1:B:233:LEU:HD23	1:B:234:PRO:HD3	1	0.3
(1,1710)	1:B:233:LEU:HD21	1:B:234:PRO:HD3	14	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1710)	1:B:233:LEU:HD22	1:B:234:PRO:HD3	14	0.3
(1,1710)	1:B:233:LEU:HD23	1:B:234:PRO:HD3	14	0.3
(1,1710)	1:B:233:LEU:HD21	1:B:234:PRO:HD3	20	0.3
(1,1710)	1:B:233:LEU:HD22	1:B:234:PRO:HD3	20	0.3
(1,1710)	1:B:233:LEU:HD23	1:B:234:PRO:HD3	20	0.3
(1,127)	1:A:50:GLN:HB3	1:A:51:SER:H	2	0.3
(1,127)	1:A:50:GLN:HB3	1:A:51:SER:H	5	0.3
(1,1224)	1:B:220:VAL:HA	1:B:223:GLN:HG2	1	0.3
(1,1223)	1:A:20:VAL:HA	1:A:23:GLN:HG2	3	0.3
(1,1223)	1:A:20:VAL:HA	1:A:23:GLN:HG2	9	0.3
(1,918)	1:B:225:ASP:HA	1:B:228:GLU:HB3	9	0.29
(1,917)	1:A:25:ASP:HA	1:A:28:GLU:HB3	14	0.29
(1,818)	1:B:221:ILE:HA	1:B:224:LEU:HB3	5	0.29
(1,761)	1:A:12:ILE:HB	1:A:13:LEU:H	4	0.29
(1,499)	1:A:20:VAL:HA	1:A:23:GLN:HE22	17	0.29
(1,405)	1:A:11:ARG:HG2	1:A:12:ILE:H	14	0.29
(1,388)	1:B:248:ILE:HA	1:B:251:SER:H	11	0.29
(1,2093)	1:A:50:GLN:H	1:A:50:GLN:HG2	4	0.29
(1,2093)	1:A:50:GLN:H	1:A:50:GLN:HG3	4	0.29
(1,2090)	1:B:249:ASN:HA	1:B:252:GLN:HB2	2	0.29
(1,2090)	1:B:249:ASN:HA	1:B:252:GLN:HB3	2	0.29
(1,2089)	1:A:49:ASN:HA	1:A:52:GLN:HB2	18	0.29
(1,2089)	1:A:49:ASN:HA	1:A:52:GLN:HB3	18	0.29
(1,1710)	1:B:233:LEU:HD21	1:B:234:PRO:HD3	2	0.29
(1,1710)	1:B:233:LEU:HD22	1:B:234:PRO:HD3	2	0.29
(1,1710)	1:B:233:LEU:HD23	1:B:234:PRO:HD3	2	0.29
(1,1709)	1:A:33:LEU:HD21	1:A:34:PRO:HD3	5	0.29
(1,1709)	1:A:33:LEU:HD22	1:A:34:PRO:HD3	5	0.29
(1,1709)	1:A:33:LEU:HD23	1:A:34:PRO:HD3	5	0.29
(1,1597)	1:A:40:ARG:HA	1:B:214:LEU:HD21	20	0.29
(1,1597)	1:A:40:ARG:HA	1:B:214:LEU:HD22	20	0.29
(1,1597)	1:A:40:ARG:HA	1:B:214:LEU:HD23	20	0.29
(1,1559)	1:A:21:ILE:HA	1:A:24:LEU:HD11	18	0.29
(1,1559)	1:A:21:ILE:HA	1:A:24:LEU:HD12	18	0.29
(1,1559)	1:A:21:ILE:HA	1:A:24:LEU:HD13	18	0.29
(1,1515)	1:A:27:LEU:HD21	1:B:247:LEU:HG	1	0.29
(1,1515)	1:A:27:LEU:HD22	1:B:247:LEU:HG	1	0.29
(1,1515)	1:A:27:LEU:HD23	1:B:247:LEU:HG	1	0.29
(1,1501)	1:A:20:VAL:HG11	1:A:24:LEU:HG	18	0.29
(1,1501)	1:A:20:VAL:HG12	1:A:24:LEU:HG	18	0.29
(1,1501)	1:A:20:VAL:HG13	1:A:24:LEU:HG	18	0.29
(1,1333)	1:A:13:LEU:HD11	1:A:14:LEU:H	6	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1333)	1:A:13:LEU:HD12	1:A:14:LEU:H	6	0.29
(1,1333)	1:A:13:LEU:HD13	1:A:14:LEU:H	6	0.29
(1,1224)	1:B:220:VAL:HA	1:B:223:GLN:HG2	8	0.29
(1,1224)	1:B:220:VAL:HA	1:B:223:GLN:HG2	16	0.29
(1,1224)	1:B:220:VAL:HA	1:B:223:GLN:HG2	20	0.29
(1,1223)	1:A:20:VAL:HA	1:A:23:GLN:HG2	7	0.29
(1,1223)	1:A:20:VAL:HA	1:A:23:GLN:HG2	10	0.29
(1,1223)	1:A:20:VAL:HA	1:A:23:GLN:HG2	12	0.29
(1,1150)	1:B:228:GLU:HG3	1:B:235:ARG:HA	19	0.29
(1,978)	1:B:213:LEU:HB3	1:B:213:LEU:HG	11	0.28
(1,930)	1:B:246:TYR:HA	1:B:249:ASN:HB3	20	0.28
(1,917)	1:A:25:ASP:HA	1:A:28:GLU:HB3	9	0.28
(1,861)	1:A:41:GLU:HA	1:A:44:ASP:HB3	16	0.28
(1,836)	1:B:235:ARG:HA	1:B:238:LEU:HB3	11	0.28
(1,453)	1:A:27:LEU:H	1:A:27:LEU:HG	7	0.28
(1,387)	1:A:48:ILE:HA	1:A:51:SER:H	19	0.28
(1,224)	1:B:207:ILE:H	1:B:208:ASP:H	9	0.28
(1,2120)	1:B:276:LEU:H	1:B:276:LEU:HD11	8	0.28
(1,2120)	1:B:276:LEU:H	1:B:276:LEU:HD12	8	0.28
(1,2120)	1:B:276:LEU:H	1:B:276:LEU:HD13	8	0.28
(1,2120)	1:B:276:LEU:H	1:B:276:LEU:HD21	8	0.28
(1,2120)	1:B:276:LEU:H	1:B:276:LEU:HD22	8	0.28
(1,2120)	1:B:276:LEU:H	1:B:276:LEU:HD23	8	0.28
(1,2090)	1:B:249:ASN:HA	1:B:252:GLN:HB2	11	0.28
(1,2090)	1:B:249:ASN:HA	1:B:252:GLN:HB3	11	0.28
(1,1686)	1:A:39:LEU:HD11	1:B:214:LEU:HB3	15	0.28
(1,1686)	1:A:39:LEU:HD12	1:B:214:LEU:HB3	15	0.28
(1,1686)	1:A:39:LEU:HD13	1:B:214:LEU:HB3	15	0.28
(1,150)	1:B:209:MET:H	1:B:209:MET:HB3	5	0.28
(1,149)	1:A:9:MET:H	1:A:9:MET:HB3	7	0.28
(1,1224)	1:B:220:VAL:HA	1:B:223:GLN:HG2	19	0.28
(1,1102)	1:B:216:LEU:HG	1:B:217:SER:H	10	0.28
(1,1062)	1:B:241:GLU:H	1:B:241:GLU:HG3	4	0.28
(1,814)	1:B:220:VAL:HA	1:B:223:GLN:HB3	5	0.27
(1,754)	1:B:210:GLY:HA3	1:B:211:ARG:H	18	0.27
(1,752)	1:B:210:GLY:HA2	1:B:211:ARG:H	8	0.27
(1,751)	1:A:10:GLY:HA2	1:A:11:ARG:H	8	0.27
(1,453)	1:A:27:LEU:H	1:A:27:LEU:HG	8	0.27
(1,450)	1:B:223:GLN:H	1:B:223:GLN:HG3	7	0.27
(1,449)	1:A:23:GLN:H	1:A:23:GLN:HG3	17	0.27
(1,250)	1:B:232:ASN:H	1:B:233:LEU:H	5	0.27
(1,250)	1:B:232:ASN:H	1:B:233:LEU:H	6	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1598)	1:A:14:LEU:HD21	1:B:240:ARG:HA	6	0.27
(1,1598)	1:A:14:LEU:HD22	1:B:240:ARG:HA	6	0.27
(1,1598)	1:A:14:LEU:HD23	1:B:240:ARG:HA	6	0.27
(1,1597)	1:A:40:ARG:HA	1:B:214:LEU:HD21	11	0.27
(1,1597)	1:A:40:ARG:HA	1:B:214:LEU:HD22	11	0.27
(1,1597)	1:A:40:ARG:HA	1:B:214:LEU:HD23	11	0.27
(1,1501)	1:A:20:VAL:HG11	1:A:24:LEU:HG	20	0.27
(1,1501)	1:A:20:VAL:HG12	1:A:24:LEU:HG	20	0.27
(1,1501)	1:A:20:VAL:HG13	1:A:24:LEU:HG	20	0.27
(1,149)	1:A:9:MET:H	1:A:9:MET:HB3	6	0.27
(1,1404)	1:B:211:ARG:HD3	1:B:213:LEU:HD21	9	0.27
(1,1404)	1:B:211:ARG:HD3	1:B:213:LEU:HD22	9	0.27
(1,1404)	1:B:211:ARG:HD3	1:B:213:LEU:HD23	9	0.27
(1,125)	1:A:50:GLN:HB2	1:A:51:SER:H	5	0.27
(1,1224)	1:B:220:VAL:HA	1:B:223:GLN:HG2	4	0.27
(1,1224)	1:B:220:VAL:HA	1:B:223:GLN:HG2	6	0.27
(1,1224)	1:B:220:VAL:HA	1:B:223:GLN:HG2	10	0.27
(1,1224)	1:B:220:VAL:HA	1:B:223:GLN:HG2	13	0.27
(1,1223)	1:A:20:VAL:HA	1:A:23:GLN:HG2	1	0.27
(1,1061)	1:A:41:GLU:H	1:A:41:GLU:HG3	18	0.27
(1,105)	1:A:46:TYR:HB2	1:A:47:LEU:H	13	0.27
(1,818)	1:B:221:ILE:HA	1:B:224:LEU:HB3	2	0.26
(1,817)	1:A:21:ILE:HA	1:A:24:LEU:HB3	7	0.26
(1,814)	1:B:220:VAL:HA	1:B:223:GLN:HB3	6	0.26
(1,814)	1:B:220:VAL:HA	1:B:223:GLN:HB3	14	0.26
(1,813)	1:A:20:VAL:HA	1:A:23:GLN:HB3	18	0.26
(1,762)	1:B:212:ILE:HB	1:B:213:LEU:H	2	0.26
(1,762)	1:B:212:ILE:HB	1:B:213:LEU:H	12	0.26
(1,751)	1:A:10:GLY:HA2	1:A:11:ARG:H	6	0.26
(1,75)	1:A:35:ARG:HB3	1:A:36:ALA:H	15	0.26
(1,223)	1:A:7:ILE:H	1:A:8:ASP:H	20	0.26
(1,1223)	1:A:20:VAL:HA	1:A:23:GLN:HG2	14	0.26
(1,1093)	1:A:76:LEU:HB3	1:A:76:LEU:HG	6	0.26
(1,885)	1:A:16:LEU:HA	1:A:17:SER:HB2	7	0.25
(1,868)	1:B:242:ALA:HA	1:B:245:GLN:HB3	2	0.25
(1,832)	1:B:223:GLN:HA	1:B:226:ASP:HB3	15	0.25
(1,818)	1:B:221:ILE:HA	1:B:224:LEU:HB3	1	0.25
(1,818)	1:B:221:ILE:HA	1:B:224:LEU:HB3	4	0.25
(1,818)	1:B:221:ILE:HA	1:B:224:LEU:HB3	6	0.25
(1,818)	1:B:221:ILE:HA	1:B:224:LEU:HB3	9	0.25
(1,817)	1:A:21:ILE:HA	1:A:24:LEU:HB3	8	0.25
(1,817)	1:A:21:ILE:HA	1:A:24:LEU:HB3	14	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,762)	1:B:212:ILE:HB	1:B:213:LEU:H	5	0.25
(1,761)	1:A:12:ILE:HB	1:A:13:LEU:H	17	0.25
(1,686)	1:B:208:ASP:H	1:B:208:ASP:HB3	7	0.25
(1,685)	1:A:8:ASP:H	1:A:8:ASP:HB3	1	0.25
(1,366)	1:B:229:VAL:HA	1:B:233:LEU:H	15	0.25
(1,365)	1:A:29:VAL:HA	1:A:33:LEU:H	17	0.25
(1,224)	1:B:207:ILE:H	1:B:208:ASP:H	10	0.25
(1,224)	1:B:207:ILE:H	1:B:208:ASP:H	16	0.25
(1,223)	1:A:7:ILE:H	1:A:8:ASP:H	3	0.25
(1,2121)	1:A:76:LEU:HB2	1:A:76:LEU:HG	6	0.25
(1,2121)	1:A:76:LEU:HB3	1:A:76:LEU:HG	6	0.25
(1,2121)	1:A:76:LEU:HB2	1:A:76:LEU:HG	8	0.25
(1,2121)	1:A:76:LEU:HB3	1:A:76:LEU:HG	8	0.25
(1,2119)	1:A:76:LEU:H	1:A:76:LEU:HD11	5	0.25
(1,2119)	1:A:76:LEU:H	1:A:76:LEU:HD12	5	0.25
(1,2119)	1:A:76:LEU:H	1:A:76:LEU:HD13	5	0.25
(1,2119)	1:A:76:LEU:H	1:A:76:LEU:HD21	5	0.25
(1,2119)	1:A:76:LEU:H	1:A:76:LEU:HD22	5	0.25
(1,2119)	1:A:76:LEU:H	1:A:76:LEU:HD23	5	0.25
(1,1685)	1:A:14:LEU:HB3	1:B:239:LEU:HD11	9	0.25
(1,1685)	1:A:14:LEU:HB3	1:B:239:LEU:HD12	9	0.25
(1,1685)	1:A:14:LEU:HB3	1:B:239:LEU:HD13	9	0.25
(1,1685)	1:A:14:LEU:HB3	1:B:239:LEU:HD11	15	0.25
(1,1685)	1:A:14:LEU:HB3	1:B:239:LEU:HD12	15	0.25
(1,1685)	1:A:14:LEU:HB3	1:B:239:LEU:HD13	15	0.25
(1,138)	1:B:271:GLU:H	1:B:272:TYR:H	5	0.25
(1,1217)	1:A:47:LEU:HA	1:A:50:GLN:HG3	9	0.25
(1,1136)	1:B:220:VAL:HA	1:B:223:GLN:HG3	7	0.25
(1,11)	1:A:10:GLY:H	1:A:11:ARG:H	5	0.25
(1,1093)	1:A:76:LEU:HB3	1:A:76:LEU:HG	8	0.25
(1,106)	1:B:246:TYR:HB2	1:B:247:LEU:H	5	0.25
(1,106)	1:B:246:TYR:HB2	1:B:247:LEU:H	14	0.25
(1,105)	1:A:46:TYR:HB2	1:A:47:LEU:H	5	0.25
(1,105)	1:A:46:TYR:HB2	1:A:47:LEU:H	8	0.25
(1,930)	1:B:246:TYR:HA	1:B:249:ASN:HB3	5	0.24
(1,876)	1:B:213:LEU:HA	1:B:214:LEU:HB3	8	0.24
(1,862)	1:B:241:GLU:HA	1:B:244:ASP:HB3	8	0.24
(1,843)	1:A:36:ALA:HA	1:A:39:LEU:HB3	2	0.24
(1,817)	1:A:21:ILE:HA	1:A:24:LEU:HB3	10	0.24
(1,817)	1:A:21:ILE:HA	1:A:24:LEU:HB3	13	0.24
(1,814)	1:B:220:VAL:HA	1:B:223:GLN:HB3	8	0.24
(1,807)	1:A:19:GLU:HA	1:A:23:GLN:H	17	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,762)	1:B:212:ILE:HB	1:B:213:LEU:H	7	0.24
(1,761)	1:A:12:ILE:HB	1:A:13:LEU:H	1	0.24
(1,76)	1:B:235:ARG:HB3	1:B:236:ALA:H	5	0.24
(1,75)	1:A:35:ARG:HB3	1:A:36:ALA:H	20	0.24
(1,689)	1:A:11:ARG:H	1:A:11:ARG:HB2	1	0.24
(1,685)	1:A:8:ASP:H	1:A:8:ASP:HB3	2	0.24
(1,646)	1:A:47:LEU:HD11	1:B:223:GLN:H	6	0.24
(1,646)	1:A:47:LEU:HD12	1:B:223:GLN:H	6	0.24
(1,646)	1:A:47:LEU:HD13	1:B:223:GLN:H	6	0.24
(1,557)	1:A:16:LEU:HD21	1:A:17:SER:H	18	0.24
(1,557)	1:A:16:LEU:HD22	1:A:17:SER:H	18	0.24
(1,557)	1:A:16:LEU:HD23	1:A:17:SER:H	18	0.24
(1,409)	1:A:14:LEU:HG	1:A:15:ASP:H	6	0.24
(1,354)	1:B:227:LEU:HA	1:B:231:ARG:H	12	0.24
(1,352)	1:B:228:GLU:HA	1:B:231:ARG:H	12	0.24
(1,268)	1:B:251:SER:H	1:B:252:GLN:H	16	0.24
(1,224)	1:B:207:ILE:H	1:B:208:ASP:H	4	0.24
(1,224)	1:B:207:ILE:H	1:B:208:ASP:H	15	0.24
(1,198)	1:B:244:ASP:H	1:B:244:ASP:HB3	5	0.24
(1,1685)	1:A:14:LEU:HB3	1:B:239:LEU:HD11	8	0.24
(1,1685)	1:A:14:LEU:HB3	1:B:239:LEU:HD12	8	0.24
(1,1685)	1:A:14:LEU:HB3	1:B:239:LEU:HD13	8	0.24
(1,1597)	1:A:40:ARG:HA	1:B:214:LEU:HD21	15	0.24
(1,1597)	1:A:40:ARG:HA	1:B:214:LEU:HD22	15	0.24
(1,1597)	1:A:40:ARG:HA	1:B:214:LEU:HD23	15	0.24
(1,1515)	1:A:27:LEU:HD21	1:B:247:LEU:HG	19	0.24
(1,1515)	1:A:27:LEU:HD22	1:B:247:LEU:HG	19	0.24
(1,1515)	1:A:27:LEU:HD23	1:B:247:LEU:HG	19	0.24
(1,149)	1:A:9:MET:H	1:A:9:MET:HB3	17	0.24
(1,138)	1:B:271:GLU:H	1:B:272:TYR:H	3	0.24
(1,137)	1:A:71:GLU:H	1:A:72:TYR:H	13	0.24
(1,125)	1:A:50:GLN:HB2	1:A:51:SER:H	2	0.24
(1,1188)	1:B:228:GLU:HG2	1:B:235:ARG:HA	20	0.24
(1,1113)	1:A:9:MET:HG3	1:B:217:SER:HA	6	0.24
(1,1083)	1:A:48:ILE:H	1:A:48:ILE:HG13	9	0.24
(1,1077)	1:A:48:ILE:HA	1:A:48:ILE:HG12	9	0.24
(1,1024)	1:B:230:GLN:H	1:B:230:GLN:HG2	20	0.24
(1,929)	1:A:46:TYR:HA	1:A:49:ASN:HB3	9	0.23
(1,868)	1:B:242:ALA:HA	1:B:245:GLN:HB3	1	0.23
(1,844)	1:B:236:ALA:HA	1:B:239:LEU:HB3	17	0.23
(1,817)	1:A:21:ILE:HA	1:A:24:LEU:HB3	5	0.23
(1,817)	1:A:21:ILE:HA	1:A:24:LEU:HB3	11	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,803)	1:A:18:ASN:HA	1:A:22:LYS:H	8	0.23
(1,796)	1:B:254:ALA:HA	1:B:255:ARG:H	3	0.23
(1,795)	1:A:54:ALA:HA	1:A:55:ARG:H	6	0.23
(1,762)	1:B:212:ILE:HB	1:B:213:LEU:H	10	0.23
(1,761)	1:A:12:ILE:HB	1:A:13:LEU:H	10	0.23
(1,761)	1:A:12:ILE:HB	1:A:13:LEU:H	20	0.23
(1,752)	1:B:210:GLY:HA2	1:B:211:ARG:H	12	0.23
(1,746)	1:B:208:ASP:HA	1:B:209:MET:H	18	0.23
(1,745)	1:A:8:ASP:HA	1:A:9:MET:H	4	0.23
(1,745)	1:A:8:ASP:HA	1:A:9:MET:H	9	0.23
(1,686)	1:B:208:ASP:H	1:B:208:ASP:HB3	3	0.23
(1,407)	1:A:11:ARG:HG3	1:A:12:ILE:H	15	0.23
(1,224)	1:B:207:ILE:H	1:B:208:ASP:H	19	0.23
(1,223)	1:A:7:ILE:H	1:A:8:ASP:H	4	0.23
(1,223)	1:A:7:ILE:H	1:A:8:ASP:H	7	0.23
(1,2121)	1:A:76:LEU:HB2	1:A:76:LEU:HG	9	0.23
(1,2121)	1:A:76:LEU:HB3	1:A:76:LEU:HG	9	0.23
(1,2121)	1:A:76:LEU:HB2	1:A:76:LEU:HG	11	0.23
(1,2121)	1:A:76:LEU:HB3	1:A:76:LEU:HG	11	0.23
(1,197)	1:A:44:ASP:H	1:A:44:ASP:HB3	16	0.23
(1,1787)	1:A:11:ARG:HG2	1:A:12:ILE:HA	15	0.23
(1,1787)	1:A:11:ARG:HG3	1:A:12:ILE:HA	15	0.23
(1,1722)	1:B:244:ASP:HA	1:B:248:ILE:HD11	2	0.23
(1,1722)	1:B:244:ASP:HA	1:B:248:ILE:HD12	2	0.23
(1,1722)	1:B:244:ASP:HA	1:B:248:ILE:HD13	2	0.23
(1,1383)	1:A:9:MET:HE1	1:A:10:GLY:H	6	0.23
(1,1383)	1:A:9:MET:HE2	1:A:10:GLY:H	6	0.23
(1,1383)	1:A:9:MET:HE3	1:A:10:GLY:H	6	0.23
(1,127)	1:A:50:GLN:HB3	1:A:51:SER:H	10	0.23
(1,1223)	1:A:20:VAL:HA	1:A:23:GLN:HG2	19	0.23
(1,12)	1:B:210:GLY:H	1:B:211:ARG:H	19	0.23
(1,117)	1:A:49:ASN:HB2	1:A:50:GLN:H	12	0.23
(1,1101)	1:A:16:LEU:HG	1:A:17:SER:H	3	0.23
(1,106)	1:B:246:TYR:HB2	1:B:247:LEU:H	12	0.23
(1,106)	1:B:246:TYR:HB2	1:B:247:LEU:H	19	0.23
(1,105)	1:A:46:TYR:HB2	1:A:47:LEU:H	9	0.23
(1,964)	1:B:212:ILE:H	1:B:212:ILE:HG12	15	0.22
(1,867)	1:A:42:ALA:HA	1:A:45:GLN:HB3	11	0.22
(1,861)	1:A:41:GLU:HA	1:A:44:ASP:HB3	3	0.22
(1,861)	1:A:41:GLU:HA	1:A:44:ASP:HB3	10	0.22
(1,861)	1:A:41:GLU:HA	1:A:44:ASP:HB3	11	0.22
(1,835)	1:A:35:ARG:HA	1:A:38:LEU:HB3	10	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,823)	1:A:22:LYS:HA	1:A:25:ASP:HB3	8	0.22
(1,818)	1:B:221:ILE:HA	1:B:224:LEU:HB3	11	0.22
(1,817)	1:A:21:ILE:HA	1:A:24:LEU:HB3	1	0.22
(1,817)	1:A:21:ILE:HA	1:A:24:LEU:HB3	9	0.22
(1,814)	1:B:220:VAL:HA	1:B:223:GLN:HB3	20	0.22
(1,813)	1:A:20:VAL:HA	1:A:23:GLN:HB3	20	0.22
(1,803)	1:A:18:ASN:HA	1:A:22:LYS:H	17	0.22
(1,762)	1:B:212:ILE:HB	1:B:213:LEU:H	3	0.22
(1,762)	1:B:212:ILE:HB	1:B:213:LEU:H	15	0.22
(1,745)	1:A:8:ASP:HA	1:A:9:MET:H	8	0.22
(1,724)	1:B:233:LEU:H	1:B:233:LEU:HB2	12	0.22
(1,701)	1:A:17:SER:H	1:A:17:SER:HB3	7	0.22
(1,695)	1:A:13:LEU:H	1:A:13:LEU:HB3	16	0.22
(1,606)	1:B:233:LEU:H	1:B:233:LEU:HD11	12	0.22
(1,606)	1:B:233:LEU:H	1:B:233:LEU:HD12	12	0.22
(1,606)	1:B:233:LEU:H	1:B:233:LEU:HD13	12	0.22
(1,453)	1:A:27:LEU:H	1:A:27:LEU:HG	12	0.22
(1,323)	1:A:12:ILE:H	1:B:213:LEU:HA	8	0.22
(1,224)	1:B:207:ILE:H	1:B:208:ASP:H	13	0.22
(1,223)	1:A:7:ILE:H	1:A:8:ASP:H	11	0.22
(1,2122)	1:B:276:LEU:HB2	1:B:276:LEU:HG	18	0.22
(1,2122)	1:B:276:LEU:HB3	1:B:276:LEU:HG	18	0.22
(1,197)	1:A:44:ASP:H	1:A:44:ASP:HB3	11	0.22
(1,1790)	1:B:211:ARG:HD2	1:B:213:LEU:H	1	0.22
(1,1790)	1:B:211:ARG:HD3	1:B:213:LEU:H	1	0.22
(1,150)	1:B:209:MET:H	1:B:209:MET:HB3	16	0.22
(1,149)	1:A:9:MET:H	1:A:9:MET:HB3	2	0.22
(1,12)	1:B:210:GLY:H	1:B:211:ARG:H	1	0.22
(1,12)	1:B:210:GLY:H	1:B:211:ARG:H	3	0.22
(1,12)	1:B:210:GLY:H	1:B:211:ARG:H	17	0.22
(1,1187)	1:A:28:GLU:HG2	1:A:35:ARG:HA	8	0.22
(1,117)	1:A:49:ASN:HB2	1:A:50:GLN:H	13	0.22
(1,1102)	1:B:216:LEU:HG	1:B:217:SER:H	5	0.22
(1,1101)	1:A:16:LEU:HG	1:A:17:SER:H	6	0.22
(1,11)	1:A:10:GLY:H	1:A:11:ARG:H	12	0.22
(1,106)	1:B:246:TYR:HB2	1:B:247:LEU:H	13	0.22
(1,105)	1:A:46:TYR:HB2	1:A:47:LEU:H	4	0.22
(1,105)	1:A:46:TYR:HB2	1:A:47:LEU:H	10	0.22
(1,1012)	1:B:223:GLN:HB2	1:B:223:GLN:HG2	1	0.22
(1,1012)	1:B:223:GLN:HB2	1:B:223:GLN:HG2	2	0.22
(1,1012)	1:B:223:GLN:HB2	1:B:223:GLN:HG2	3	0.22
(1,1012)	1:B:223:GLN:HB2	1:B:223:GLN:HG2	4	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1012)	1:B:223:GLN:HB2	1:B:223:GLN:HG2	5	0.22
(1,1012)	1:B:223:GLN:HB2	1:B:223:GLN:HG2	9	0.22
(1,1012)	1:B:223:GLN:HB2	1:B:223:GLN:HG2	11	0.22
(1,1012)	1:B:223:GLN:HB2	1:B:223:GLN:HG2	12	0.22
(1,1012)	1:B:223:GLN:HB2	1:B:223:GLN:HG2	15	0.22
(1,1012)	1:B:223:GLN:HB2	1:B:223:GLN:HG2	16	0.22
(1,1012)	1:B:223:GLN:HB2	1:B:223:GLN:HG2	17	0.22
(1,1012)	1:B:223:GLN:HB2	1:B:223:GLN:HG2	20	0.22
(1,1011)	1:A:23:GLN:HB2	1:A:23:GLN:HG2	1	0.22
(1,1011)	1:A:23:GLN:HB2	1:A:23:GLN:HG2	2	0.22
(1,1011)	1:A:23:GLN:HB2	1:A:23:GLN:HG2	3	0.22
(1,1011)	1:A:23:GLN:HB2	1:A:23:GLN:HG2	5	0.22
(1,1011)	1:A:23:GLN:HB2	1:A:23:GLN:HG2	11	0.22
(1,1011)	1:A:23:GLN:HB2	1:A:23:GLN:HG2	15	0.22
(1,1011)	1:A:23:GLN:HB2	1:A:23:GLN:HG2	16	0.22
(1,1011)	1:A:23:GLN:HB2	1:A:23:GLN:HG2	18	0.22
(1,934)	1:A:10:GLY:H	1:B:215:ASP:HA	6	0.21
(1,929)	1:A:46:TYR:HA	1:A:49:ASN:HB3	4	0.21
(1,909)	1:A:34:PRO:HB3	1:A:37:ASP:H	12	0.21
(1,868)	1:B:242:ALA:HA	1:B:245:GLN:HB3	10	0.21
(1,861)	1:A:41:GLU:HA	1:A:44:ASP:HB3	8	0.21
(1,844)	1:B:236:ALA:HA	1:B:239:LEU:HB3	2	0.21
(1,843)	1:A:36:ALA:HA	1:A:39:LEU:HB3	16	0.21
(1,836)	1:B:235:ARG:HA	1:B:238:LEU:HB3	2	0.21
(1,835)	1:A:35:ARG:HA	1:A:38:LEU:HB3	16	0.21
(1,818)	1:B:221:ILE:HA	1:B:224:LEU:HB3	13	0.21
(1,818)	1:B:221:ILE:HA	1:B:224:LEU:HB3	20	0.21
(1,814)	1:B:220:VAL:HA	1:B:223:GLN:HB3	13	0.21
(1,762)	1:B:212:ILE:HB	1:B:213:LEU:H	8	0.21
(1,762)	1:B:212:ILE:HB	1:B:213:LEU:H	14	0.21
(1,762)	1:B:212:ILE:HB	1:B:213:LEU:H	20	0.21
(1,761)	1:A:12:ILE:HB	1:A:13:LEU:H	2	0.21
(1,761)	1:A:12:ILE:HB	1:A:13:LEU:H	12	0.21
(1,76)	1:B:235:ARG:HB3	1:B:236:ALA:H	1	0.21
(1,757)	1:A:11:ARG:HB2	1:A:12:ILE:H	6	0.21
(1,75)	1:A:35:ARG:HB3	1:A:36:ALA:H	12	0.21
(1,746)	1:B:208:ASP:HA	1:B:209:MET:H	11	0.21
(1,702)	1:B:217:SER:H	1:B:217:SER:HB3	13	0.21
(1,646)	1:A:47:LEU:HD11	1:B:223:GLN:H	2	0.21
(1,646)	1:A:47:LEU:HD12	1:B:223:GLN:H	2	0.21
(1,646)	1:A:47:LEU:HD13	1:B:223:GLN:H	2	0.21
(1,512)	1:B:250:GLN:HA	1:B:250:GLN:HE22	4	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,453)	1:A:27:LEU:H	1:A:27:LEU:HG	16	0.21
(1,409)	1:A:14:LEU:HG	1:A:15:ASP:H	9	0.21
(1,370)	1:B:234:PRO:HB3	1:B:236:ALA:H	17	0.21
(1,369)	1:A:34:PRO:HB3	1:A:36:ALA:H	7	0.21
(1,369)	1:A:34:PRO:HB3	1:A:36:ALA:H	8	0.21
(1,366)	1:B:229:VAL:HA	1:B:233:LEU:H	14	0.21
(1,223)	1:A:7:ILE:H	1:A:8:ASP:H	10	0.21
(1,198)	1:B:244:ASP:H	1:B:244:ASP:HB3	8	0.21
(1,198)	1:B:244:ASP:H	1:B:244:ASP:HB3	15	0.21
(1,197)	1:A:44:ASP:H	1:A:44:ASP:HB3	10	0.21
(1,1685)	1:A:14:LEU:HB3	1:B:239:LEU:HD11	12	0.21
(1,1685)	1:A:14:LEU:HB3	1:B:239:LEU:HD12	12	0.21
(1,1685)	1:A:14:LEU:HB3	1:B:239:LEU:HD13	12	0.21
(1,1499)	1:A:24:LEU:HA	1:A:27:LEU:HD11	18	0.21
(1,1499)	1:A:24:LEU:HA	1:A:27:LEU:HD12	18	0.21
(1,1499)	1:A:24:LEU:HA	1:A:27:LEU:HD13	18	0.21
(1,128)	1:B:250:GLN:HB3	1:B:251:SER:H	8	0.21
(1,1158)	1:B:231:ARG:HD2	1:B:233:LEU:H	18	0.21
(1,1158)	1:B:231:ARG:HD3	1:B:233:LEU:H	18	0.21
(1,1101)	1:A:16:LEU:HG	1:A:17:SER:H	11	0.21
(1,11)	1:A:10:GLY:H	1:A:11:ARG:H	18	0.21
(1,105)	1:A:46:TYR:HB2	1:A:47:LEU:H	12	0.21
(1,1012)	1:B:223:GLN:HB2	1:B:223:GLN:HG2	6	0.21
(1,1012)	1:B:223:GLN:HB2	1:B:223:GLN:HG2	8	0.21
(1,1012)	1:B:223:GLN:HB2	1:B:223:GLN:HG2	10	0.21
(1,1012)	1:B:223:GLN:HB2	1:B:223:GLN:HG2	13	0.21
(1,1012)	1:B:223:GLN:HB2	1:B:223:GLN:HG2	14	0.21
(1,1012)	1:B:223:GLN:HB2	1:B:223:GLN:HG2	18	0.21
(1,1012)	1:B:223:GLN:HB2	1:B:223:GLN:HG2	19	0.21
(1,1011)	1:A:23:GLN:HB2	1:A:23:GLN:HG2	4	0.21
(1,1011)	1:A:23:GLN:HB2	1:A:23:GLN:HG2	6	0.21
(1,1011)	1:A:23:GLN:HB2	1:A:23:GLN:HG2	7	0.21
(1,1011)	1:A:23:GLN:HB2	1:A:23:GLN:HG2	8	0.21
(1,1011)	1:A:23:GLN:HB2	1:A:23:GLN:HG2	9	0.21
(1,1011)	1:A:23:GLN:HB2	1:A:23:GLN:HG2	10	0.21
(1,1011)	1:A:23:GLN:HB2	1:A:23:GLN:HG2	12	0.21
(1,1011)	1:A:23:GLN:HB2	1:A:23:GLN:HG2	13	0.21
(1,1011)	1:A:23:GLN:HB2	1:A:23:GLN:HG2	14	0.21
(1,1011)	1:A:23:GLN:HB2	1:A:23:GLN:HG2	19	0.21
(1,1011)	1:A:23:GLN:HB2	1:A:23:GLN:HG2	20	0.21
(1,868)	1:B:242:ALA:HA	1:B:245:GLN:HB3	8	0.2
(1,868)	1:B:242:ALA:HA	1:B:245:GLN:HB3	13	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,867)	1:A:42:ALA:HA	1:A:45:GLN:HB3	2	0.2
(1,867)	1:A:42:ALA:HA	1:A:45:GLN:HB3	17	0.2
(1,861)	1:A:41:GLU:HA	1:A:44:ASP:HB3	6	0.2
(1,836)	1:B:235:ARG:HA	1:B:238:LEU:HB3	18	0.2
(1,824)	1:B:222:LYS:HA	1:B:225:ASP:HB3	10	0.2
(1,818)	1:B:221:ILE:HA	1:B:224:LEU:HB3	17	0.2
(1,818)	1:B:221:ILE:HA	1:B:224:LEU:HB3	18	0.2
(1,817)	1:A:21:ILE:HA	1:A:24:LEU:HB3	3	0.2
(1,817)	1:A:21:ILE:HA	1:A:24:LEU:HB3	4	0.2
(1,817)	1:A:21:ILE:HA	1:A:24:LEU:HB3	6	0.2
(1,817)	1:A:21:ILE:HA	1:A:24:LEU:HB3	17	0.2
(1,814)	1:B:220:VAL:HA	1:B:223:GLN:HB3	4	0.2
(1,814)	1:B:220:VAL:HA	1:B:223:GLN:HB3	9	0.2
(1,814)	1:B:220:VAL:HA	1:B:223:GLN:HB3	15	0.2
(1,814)	1:B:220:VAL:HA	1:B:223:GLN:HB3	16	0.2
(1,814)	1:B:220:VAL:HA	1:B:223:GLN:HB3	18	0.2
(1,795)	1:A:54:ALA:HA	1:A:55:ARG:H	9	0.2
(1,762)	1:B:212:ILE:HB	1:B:213:LEU:H	13	0.2
(1,762)	1:B:212:ILE:HB	1:B:213:LEU:H	19	0.2
(1,761)	1:A:12:ILE:HB	1:A:13:LEU:H	3	0.2
(1,761)	1:A:12:ILE:HB	1:A:13:LEU:H	11	0.2
(1,761)	1:A:12:ILE:HB	1:A:13:LEU:H	15	0.2
(1,752)	1:B:210:GLY:HA2	1:B:211:ARG:H	7	0.2
(1,701)	1:A:17:SER:H	1:A:17:SER:HB3	15	0.2
(1,696)	1:B:213:LEU:H	1:B:213:LEU:HB3	6	0.2
(1,685)	1:A:8:ASP:H	1:A:8:ASP:HB3	12	0.2
(1,646)	1:A:47:LEU:HD11	1:B:223:GLN:H	5	0.2
(1,646)	1:A:47:LEU:HD12	1:B:223:GLN:H	5	0.2
(1,646)	1:A:47:LEU:HD13	1:B:223:GLN:H	5	0.2
(1,454)	1:B:227:LEU:H	1:B:227:LEU:HG	9	0.2
(1,454)	1:B:227:LEU:H	1:B:227:LEU:HG	17	0.2
(1,390)	1:A:10:GLY:H	1:B:216:LEU:H	6	0.2
(1,369)	1:A:34:PRO:HB3	1:A:36:ALA:H	17	0.2
(1,354)	1:B:227:LEU:HA	1:B:231:ARG:H	5	0.2
(1,267)	1:A:51:SER:H	1:A:52:GLN:H	10	0.2
(1,224)	1:B:207:ILE:H	1:B:208:ASP:H	2	0.2
(1,198)	1:B:244:ASP:H	1:B:244:ASP:HB3	1	0.2
(1,198)	1:B:244:ASP:H	1:B:244:ASP:HB3	18	0.2
(1,197)	1:A:44:ASP:H	1:A:44:ASP:HB3	3	0.2
(1,197)	1:A:44:ASP:H	1:A:44:ASP:HB3	6	0.2
(1,197)	1:A:44:ASP:H	1:A:44:ASP:HB3	8	0.2
(1,179)	1:A:32:ASN:H	1:A:32:ASN:HB3	2	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,179)	1:A:32:ASN:H	1:A:32:ASN:HB3	11	0.2
(1,1686)	1:A:39:LEU:HD11	1:B:214:LEU:HB3	20	0.2
(1,1686)	1:A:39:LEU:HD12	1:B:214:LEU:HB3	20	0.2
(1,1686)	1:A:39:LEU:HD13	1:B:214:LEU:HB3	20	0.2
(1,1425)	1:A:16:LEU:HD21	1:B:240:ARG:HA	17	0.2
(1,1425)	1:A:16:LEU:HD22	1:B:240:ARG:HA	17	0.2
(1,1425)	1:A:16:LEU:HD23	1:B:240:ARG:HA	17	0.2
(1,1403)	1:A:11:ARG:HD3	1:A:13:LEU:HD21	3	0.2
(1,1403)	1:A:11:ARG:HD3	1:A:13:LEU:HD22	3	0.2
(1,1403)	1:A:11:ARG:HD3	1:A:13:LEU:HD23	3	0.2
(1,138)	1:B:271:GLU:H	1:B:272:TYR:H	8	0.2
(1,1334)	1:B:213:LEU:HD11	1:B:214:LEU:H	1	0.2
(1,1334)	1:B:213:LEU:HD12	1:B:214:LEU:H	1	0.2
(1,1334)	1:B:213:LEU:HD13	1:B:214:LEU:H	1	0.2
(1,128)	1:B:250:GLN:HB3	1:B:251:SER:H	1	0.2
(1,128)	1:B:250:GLN:HB3	1:B:251:SER:H	2	0.2
(1,128)	1:B:250:GLN:HB3	1:B:251:SER:H	9	0.2
(1,128)	1:B:250:GLN:HB3	1:B:251:SER:H	13	0.2
(1,128)	1:B:250:GLN:HB3	1:B:251:SER:H	15	0.2
(1,127)	1:A:50:GLN:HB3	1:A:51:SER:H	6	0.2
(1,127)	1:A:50:GLN:HB3	1:A:51:SER:H	19	0.2
(1,1187)	1:A:28:GLU:HG2	1:A:35:ARG:HA	15	0.2
(1,118)	1:B:249:ASN:HB2	1:B:250:GLN:H	14	0.2
(1,1102)	1:B:216:LEU:HG	1:B:217:SER:H	15	0.2
(1,1101)	1:A:16:LEU:HG	1:A:17:SER:H	15	0.2
(1,1091)	1:A:76:LEU:HB2	1:A:76:LEU:HG	9	0.2
(1,1091)	1:A:76:LEU:HB2	1:A:76:LEU:HG	11	0.2
(1,106)	1:B:246:TYR:HB2	1:B:247:LEU:H	7	0.2
(1,105)	1:A:46:TYR:HB2	1:A:47:LEU:H	18	0.2
(1,910)	1:B:234:PRO:HB3	1:B:237:ASP:H	12	0.19
(1,909)	1:A:34:PRO:HB3	1:A:37:ASP:H	19	0.19
(1,886)	1:B:216:LEU:HA	1:B:217:SER:HB2	13	0.19
(1,876)	1:B:213:LEU:HA	1:B:214:LEU:HB3	13	0.19
(1,867)	1:A:42:ALA:HA	1:A:45:GLN:HB3	8	0.19
(1,867)	1:A:42:ALA:HA	1:A:45:GLN:HB3	10	0.19
(1,862)	1:B:241:GLU:HA	1:B:244:ASP:HB3	18	0.19
(1,844)	1:B:236:ALA:HA	1:B:239:LEU:HB3	8	0.19
(1,835)	1:A:35:ARG:HA	1:A:38:LEU:HB3	2	0.19
(1,835)	1:A:35:ARG:HA	1:A:38:LEU:HB3	15	0.19
(1,824)	1:B:222:LYS:HA	1:B:225:ASP:HB3	19	0.19
(1,817)	1:A:21:ILE:HA	1:A:24:LEU:HB3	2	0.19
(1,817)	1:A:21:ILE:HA	1:A:24:LEU:HB3	16	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,814)	1:B:220:VAL:HA	1:B:223:GLN:HB3	17	0.19
(1,813)	1:A:20:VAL:HA	1:A:23:GLN:HB3	16	0.19
(1,761)	1:A:12:ILE:HB	1:A:13:LEU:H	7	0.19
(1,76)	1:B:235:ARG:HB3	1:B:236:ALA:H	9	0.19
(1,758)	1:B:211:ARG:HB2	1:B:212:ILE:H	19	0.19
(1,757)	1:A:11:ARG:HB2	1:A:12:ILE:H	2	0.19
(1,757)	1:A:11:ARG:HB2	1:A:12:ILE:H	5	0.19
(1,75)	1:A:35:ARG:HB3	1:A:36:ALA:H	11	0.19
(1,75)	1:A:35:ARG:HB3	1:A:36:ALA:H	14	0.19
(1,741)	1:A:7:ILE:HA	1:A:8:ASP:H	15	0.19
(1,74)	1:B:235:ARG:HB2	1:B:236:ALA:H	14	0.19
(1,73)	1:A:35:ARG:HB2	1:A:36:ALA:H	2	0.19
(1,73)	1:A:35:ARG:HB2	1:A:36:ALA:H	16	0.19
(1,702)	1:B:217:SER:H	1:B:217:SER:HB3	1	0.19
(1,702)	1:B:217:SER:H	1:B:217:SER:HB3	2	0.19
(1,702)	1:B:217:SER:H	1:B:217:SER:HB3	4	0.19
(1,702)	1:B:217:SER:H	1:B:217:SER:HB3	5	0.19
(1,702)	1:B:217:SER:H	1:B:217:SER:HB3	8	0.19
(1,702)	1:B:217:SER:H	1:B:217:SER:HB3	10	0.19
(1,702)	1:B:217:SER:H	1:B:217:SER:HB3	15	0.19
(1,702)	1:B:217:SER:H	1:B:217:SER:HB3	17	0.19
(1,702)	1:B:217:SER:H	1:B:217:SER:HB3	20	0.19
(1,701)	1:A:17:SER:H	1:A:17:SER:HB3	2	0.19
(1,701)	1:A:17:SER:H	1:A:17:SER:HB3	5	0.19
(1,701)	1:A:17:SER:H	1:A:17:SER:HB3	6	0.19
(1,701)	1:A:17:SER:H	1:A:17:SER:HB3	14	0.19
(1,696)	1:B:213:LEU:H	1:B:213:LEU:HB3	12	0.19
(1,686)	1:B:208:ASP:H	1:B:208:ASP:HB3	20	0.19
(1,454)	1:B:227:LEU:H	1:B:227:LEU:HG	8	0.19
(1,454)	1:B:227:LEU:H	1:B:227:LEU:HG	20	0.19
(1,453)	1:A:27:LEU:H	1:A:27:LEU:HG	5	0.19
(1,407)	1:A:11:ARG:HG3	1:A:12:ILE:H	7	0.19
(1,400)	1:A:9:MET:HA	1:B:218:ASN:H	18	0.19
(1,396)	1:A:13:LEU:HA	1:B:214:LEU:H	15	0.19
(1,375)	1:A:44:ASP:HA	1:A:48:ILE:H	8	0.19
(1,324)	1:A:13:LEU:HA	1:B:212:ILE:H	14	0.19
(1,224)	1:B:207:ILE:H	1:B:208:ASP:H	8	0.19
(1,2122)	1:B:276:LEU:HB2	1:B:276:LEU:HG	1	0.19
(1,2122)	1:B:276:LEU:HB3	1:B:276:LEU:HG	1	0.19
(1,180)	1:B:232:ASN:H	1:B:232:ASN:HB3	8	0.19
(1,179)	1:A:32:ASN:H	1:A:32:ASN:HB3	17	0.19
(1,1598)	1:A:14:LEU:HD21	1:B:240:ARG:HA	1	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1598)	1:A:14:LEU:HD22	1:B:240:ARG:HA	1	0.19
(1,1598)	1:A:14:LEU:HD23	1:B:240:ARG:HA	1	0.19
(1,1516)	1:A:47:LEU:HG	1:B:227:LEU:HD21	15	0.19
(1,1516)	1:A:47:LEU:HG	1:B:227:LEU:HD22	15	0.19
(1,1516)	1:A:47:LEU:HG	1:B:227:LEU:HD23	15	0.19
(1,1515)	1:A:27:LEU:HD21	1:B:247:LEU:HG	14	0.19
(1,1515)	1:A:27:LEU:HD22	1:B:247:LEU:HG	14	0.19
(1,1515)	1:A:27:LEU:HD23	1:B:247:LEU:HG	14	0.19
(1,138)	1:B:271:GLU:H	1:B:272:TYR:H	18	0.19
(1,128)	1:B:250:GLN:HB3	1:B:251:SER:H	11	0.19
(1,1224)	1:B:220:VAL:HA	1:B:223:GLN:HG2	14	0.19
(1,1187)	1:A:28:GLU:HG2	1:A:35:ARG:HA	5	0.19
(1,1112)	1:A:17:SER:HA	1:B:209:MET:HG2	13	0.19
(1,106)	1:B:246:TYR:HB2	1:B:247:LEU:H	10	0.19
(1,106)	1:B:246:TYR:HB2	1:B:247:LEU:H	11	0.19
(1,105)	1:A:46:TYR:HB2	1:A:47:LEU:H	1	0.19
(1,105)	1:A:46:TYR:HB2	1:A:47:LEU:H	6	0.19
(1,1030)	1:B:230:GLN:HA	1:B:230:GLN:HG3	3	0.19
(1,1030)	1:B:230:GLN:HA	1:B:230:GLN:HG3	19	0.19
(1,1022)	1:B:228:GLU:HA	1:B:228:GLU:HG3	4	0.19
(1,942)	1:A:17:SER:HA	1:B:209:MET:HA	18	0.18
(1,910)	1:B:234:PRO:HB3	1:B:237:ASP:H	6	0.18
(1,867)	1:A:42:ALA:HA	1:A:45:GLN:HB3	12	0.18
(1,843)	1:A:36:ALA:HA	1:A:39:LEU:HB3	6	0.18
(1,817)	1:A:21:ILE:HA	1:A:24:LEU:HB3	19	0.18
(1,814)	1:B:220:VAL:HA	1:B:223:GLN:HB3	2	0.18
(1,814)	1:B:220:VAL:HA	1:B:223:GLN:HB3	11	0.18
(1,813)	1:A:20:VAL:HA	1:A:23:GLN:HB3	1	0.18
(1,813)	1:A:20:VAL:HA	1:A:23:GLN:HB3	11	0.18
(1,813)	1:A:20:VAL:HA	1:A:23:GLN:HB3	13	0.18
(1,796)	1:B:254:ALA:HA	1:B:255:ARG:H	15	0.18
(1,796)	1:B:254:ALA:HA	1:B:255:ARG:H	19	0.18
(1,76)	1:B:235:ARG:HB3	1:B:236:ALA:H	12	0.18
(1,758)	1:B:211:ARG:HB2	1:B:212:ILE:H	14	0.18
(1,75)	1:A:35:ARG:HB3	1:A:36:ALA:H	5	0.18
(1,745)	1:A:8:ASP:HA	1:A:9:MET:H	15	0.18
(1,741)	1:A:7:ILE:HA	1:A:8:ASP:H	5	0.18
(1,73)	1:A:35:ARG:HB2	1:A:36:ALA:H	4	0.18
(1,702)	1:B:217:SER:H	1:B:217:SER:HB3	7	0.18
(1,702)	1:B:217:SER:H	1:B:217:SER:HB3	9	0.18
(1,701)	1:A:17:SER:H	1:A:17:SER:HB3	3	0.18
(1,701)	1:A:17:SER:H	1:A:17:SER:HB3	10	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,701)	1:A:17:SER:H	1:A:17:SER:HB3	11	0.18
(1,701)	1:A:17:SER:H	1:A:17:SER:HB3	16	0.18
(1,701)	1:A:17:SER:H	1:A:17:SER:HB3	18	0.18
(1,701)	1:A:17:SER:H	1:A:17:SER:HB3	20	0.18
(1,698)	1:B:215:ASP:H	1:B:215:ASP:HB2	12	0.18
(1,696)	1:B:213:LEU:H	1:B:213:LEU:HB3	10	0.18
(1,696)	1:B:213:LEU:H	1:B:213:LEU:HB3	19	0.18
(1,695)	1:A:13:LEU:H	1:A:13:LEU:HB3	2	0.18
(1,695)	1:A:13:LEU:H	1:A:13:LEU:HB3	6	0.18
(1,695)	1:A:13:LEU:H	1:A:13:LEU:HB3	11	0.18
(1,695)	1:A:13:LEU:H	1:A:13:LEU:HB3	17	0.18
(1,694)	1:B:213:LEU:H	1:B:213:LEU:HB2	11	0.18
(1,550)	1:B:213:LEU:HD21	1:B:214:LEU:H	11	0.18
(1,550)	1:B:213:LEU:HD22	1:B:214:LEU:H	11	0.18
(1,550)	1:B:213:LEU:HD23	1:B:214:LEU:H	11	0.18
(1,540)	1:B:234:PRO:HG3	1:B:237:ASP:H	1	0.18
(1,540)	1:B:234:PRO:HG3	1:B:237:ASP:H	7	0.18
(1,454)	1:B:227:LEU:H	1:B:227:LEU:HG	16	0.18
(1,370)	1:B:234:PRO:HB3	1:B:236:ALA:H	8	0.18
(1,366)	1:B:229:VAL:HA	1:B:233:LEU:H	3	0.18
(1,366)	1:B:229:VAL:HA	1:B:233:LEU:H	6	0.18
(1,366)	1:B:229:VAL:HA	1:B:233:LEU:H	10	0.18
(1,3)	1:A:6:GLY:H	1:A:7:ILE:H	6	0.18
(1,223)	1:A:7:ILE:H	1:A:8:ASP:H	17	0.18
(1,223)	1:A:7:ILE:H	1:A:8:ASP:H	18	0.18
(1,1825)	1:A:13:LEU:HG	1:B:211:ARG:HD2	6	0.18
(1,1825)	1:A:13:LEU:HG	1:B:211:ARG:HD3	6	0.18
(1,180)	1:B:232:ASN:H	1:B:232:ASN:HB3	4	0.18
(1,1770)	1:A:17:SER:HA	1:B:209:MET:HG2	13	0.18
(1,1770)	1:A:17:SER:HA	1:B:209:MET:HG3	13	0.18
(1,1686)	1:A:39:LEU:HD11	1:B:214:LEU:HB3	6	0.18
(1,1686)	1:A:39:LEU:HD12	1:B:214:LEU:HB3	6	0.18
(1,1686)	1:A:39:LEU:HD13	1:B:214:LEU:HB3	6	0.18
(1,143)	1:A:79:GLU:H	1:A:80:TRP:H	4	0.18
(1,1206)	1:A:46:TYR:HB3	1:B:242:ALA:HA	12	0.18
(1,1187)	1:A:28:GLU:HG2	1:A:35:ARG:HA	4	0.18
(1,1114)	1:A:17:SER:HA	1:B:209:MET:HG3	13	0.18
(1,1102)	1:B:216:LEU:HG	1:B:217:SER:H	7	0.18
(1,1102)	1:B:216:LEU:HG	1:B:217:SER:H	13	0.18
(1,1092)	1:B:276:LEU:HB2	1:B:276:LEU:HG	18	0.18
(1,106)	1:B:246:TYR:HB2	1:B:247:LEU:H	16	0.18
(1,105)	1:A:46:TYR:HB2	1:A:47:LEU:H	7	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1029)	1:A:30:GLN:HA	1:A:30:GLN:HG3	1	0.18
(1,1024)	1:B:230:GLN:H	1:B:230:GLN:HG2	6	0.18
(1,941)	1:A:9:MET:HA	1:B:217:SER:HA	6	0.17
(1,918)	1:B:225:ASP:HA	1:B:228:GLU:HB3	6	0.17
(1,910)	1:B:234:PRO:HB3	1:B:237:ASP:H	13	0.17
(1,885)	1:A:16:LEU:HA	1:A:17:SER:HB2	5	0.17
(1,876)	1:B:213:LEU:HA	1:B:214:LEU:HB3	2	0.17
(1,875)	1:A:13:LEU:HA	1:A:14:LEU:HB3	11	0.17
(1,868)	1:B:242:ALA:HA	1:B:245:GLN:HB3	5	0.17
(1,862)	1:B:241:GLU:HA	1:B:244:ASP:HB3	15	0.17
(1,844)	1:B:236:ALA:HA	1:B:239:LEU:HB3	4	0.17
(1,843)	1:A:36:ALA:HA	1:A:39:LEU:HB3	18	0.17
(1,818)	1:B:221:ILE:HA	1:B:224:LEU:HB3	8	0.17
(1,817)	1:A:21:ILE:HA	1:A:24:LEU:HB3	12	0.17
(1,813)	1:A:20:VAL:HA	1:A:23:GLN:HB3	2	0.17
(1,813)	1:A:20:VAL:HA	1:A:23:GLN:HB3	3	0.17
(1,813)	1:A:20:VAL:HA	1:A:23:GLN:HB3	4	0.17
(1,813)	1:A:20:VAL:HA	1:A:23:GLN:HB3	5	0.17
(1,813)	1:A:20:VAL:HA	1:A:23:GLN:HB3	7	0.17
(1,813)	1:A:20:VAL:HA	1:A:23:GLN:HB3	12	0.17
(1,813)	1:A:20:VAL:HA	1:A:23:GLN:HB3	14	0.17
(1,76)	1:B:235:ARG:HB3	1:B:236:ALA:H	16	0.17
(1,76)	1:B:235:ARG:HB3	1:B:236:ALA:H	18	0.17
(1,757)	1:A:11:ARG:HB2	1:A:12:ILE:H	11	0.17
(1,746)	1:B:208:ASP:HA	1:B:209:MET:H	17	0.17
(1,743)	1:A:7:ILE:HB	1:A:8:ASP:H	16	0.17
(1,73)	1:A:35:ARG:HB2	1:A:36:ALA:H	10	0.17
(1,707)	1:A:18:ASN:H	1:A:18:ASN:HB3	19	0.17
(1,701)	1:A:17:SER:H	1:A:17:SER:HB3	1	0.17
(1,701)	1:A:17:SER:H	1:A:17:SER:HB3	12	0.17
(1,696)	1:B:213:LEU:H	1:B:213:LEU:HB3	1	0.17
(1,696)	1:B:213:LEU:H	1:B:213:LEU:HB3	2	0.17
(1,696)	1:B:213:LEU:H	1:B:213:LEU:HB3	7	0.17
(1,696)	1:B:213:LEU:H	1:B:213:LEU:HB3	16	0.17
(1,696)	1:B:213:LEU:H	1:B:213:LEU:HB3	17	0.17
(1,695)	1:A:13:LEU:H	1:A:13:LEU:HB3	10	0.17
(1,695)	1:A:13:LEU:H	1:A:13:LEU:HB3	12	0.17
(1,695)	1:A:13:LEU:H	1:A:13:LEU:HB3	13	0.17
(1,695)	1:A:13:LEU:H	1:A:13:LEU:HB3	15	0.17
(1,646)	1:A:47:LEU:HD11	1:B:223:GLN:H	4	0.17
(1,646)	1:A:47:LEU:HD12	1:B:223:GLN:H	4	0.17
(1,646)	1:A:47:LEU:HD13	1:B:223:GLN:H	4	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,646)	1:A:47:LEU:HD11	1:B:223:GLN:H	8	0.17
(1,646)	1:A:47:LEU:HD12	1:B:223:GLN:H	8	0.17
(1,646)	1:A:47:LEU:HD13	1:B:223:GLN:H	8	0.17
(1,540)	1:B:234:PRO:HG3	1:B:237:ASP:H	12	0.17
(1,49)	1:A:23:GLN:HB3	1:A:24:LEU:H	20	0.17
(1,390)	1:A:10:GLY:H	1:B:216:LEU:H	13	0.17
(1,370)	1:B:234:PRO:HB3	1:B:236:ALA:H	6	0.17
(1,369)	1:A:34:PRO:HB3	1:A:36:ALA:H	3	0.17
(1,366)	1:B:229:VAL:HA	1:B:233:LEU:H	17	0.17
(1,354)	1:B:227:LEU:HA	1:B:231:ARG:H	6	0.17
(1,323)	1:A:12:ILE:H	1:B:213:LEU:HA	19	0.17
(1,23)	1:A:14:LEU:HB2	1:A:15:ASP:H	15	0.17
(1,224)	1:B:207:ILE:H	1:B:208:ASP:H	1	0.17
(1,224)	1:B:207:ILE:H	1:B:208:ASP:H	6	0.17
(1,223)	1:A:7:ILE:H	1:A:8:ASP:H	6	0.17
(1,180)	1:B:232:ASN:H	1:B:232:ASN:HB3	13	0.17
(1,179)	1:A:32:ASN:H	1:A:32:ASN:HB3	4	0.17
(1,179)	1:A:32:ASN:H	1:A:32:ASN:HB3	5	0.17
(1,1722)	1:B:244:ASP:HA	1:B:248:ILE:HD11	9	0.17
(1,1722)	1:B:244:ASP:HA	1:B:248:ILE:HD12	9	0.17
(1,1722)	1:B:244:ASP:HA	1:B:248:ILE:HD13	9	0.17
(1,169)	1:A:25:ASP:H	1:A:25:ASP:HB3	17	0.17
(1,1685)	1:A:14:LEU:HB3	1:B:239:LEU:HD11	11	0.17
(1,1685)	1:A:14:LEU:HB3	1:B:239:LEU:HD12	11	0.17
(1,1685)	1:A:14:LEU:HB3	1:B:239:LEU:HD13	11	0.17
(1,1515)	1:A:27:LEU:HD21	1:B:247:LEU:HG	9	0.17
(1,1515)	1:A:27:LEU:HD22	1:B:247:LEU:HG	9	0.17
(1,1515)	1:A:27:LEU:HD23	1:B:247:LEU:HG	9	0.17
(1,150)	1:B:209:MET:H	1:B:209:MET:HB3	14	0.17
(1,144)	1:B:279:GLU:H	1:B:280:TRP:H	20	0.17
(1,128)	1:B:250:GLN:HB3	1:B:251:SER:H	16	0.17
(1,1273)	1:A:16:LEU:HA	1:A:16:LEU:HD21	18	0.17
(1,1273)	1:A:16:LEU:HA	1:A:16:LEU:HD22	18	0.17
(1,1273)	1:A:16:LEU:HA	1:A:16:LEU:HD23	18	0.17
(1,127)	1:A:50:GLN:HB3	1:A:51:SER:H	16	0.17
(1,127)	1:A:50:GLN:HB3	1:A:51:SER:H	18	0.17
(1,1223)	1:A:20:VAL:HA	1:A:23:GLN:HG2	8	0.17
(1,1126)	1:B:217:SER:HB2	1:B:220:VAL:HB	12	0.17
(1,1102)	1:B:216:LEU:HG	1:B:217:SER:H	12	0.17
(1,1102)	1:B:216:LEU:HG	1:B:217:SER:H	20	0.17
(1,106)	1:B:246:TYR:HB2	1:B:247:LEU:H	6	0.17
(1,106)	1:B:246:TYR:HB2	1:B:247:LEU:H	8	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,106)	1:B:246:TYR:HB2	1:B:247:LEU:H	9	0.17
(1,105)	1:A:46:TYR:HB2	1:A:47:LEU:H	20	0.17
(1,909)	1:A:34:PRO:HB3	1:A:37:ASP:H	1	0.16
(1,909)	1:A:34:PRO:HB3	1:A:37:ASP:H	3	0.16
(1,868)	1:B:242:ALA:HA	1:B:245:GLN:HB3	7	0.16
(1,868)	1:B:242:ALA:HA	1:B:245:GLN:HB3	12	0.16
(1,868)	1:B:242:ALA:HA	1:B:245:GLN:HB3	15	0.16
(1,868)	1:B:242:ALA:HA	1:B:245:GLN:HB3	20	0.16
(1,844)	1:B:236:ALA:HA	1:B:239:LEU:HB3	1	0.16
(1,844)	1:B:236:ALA:HA	1:B:239:LEU:HB3	7	0.16
(1,844)	1:B:236:ALA:HA	1:B:239:LEU:HB3	20	0.16
(1,843)	1:A:36:ALA:HA	1:A:39:LEU:HB3	20	0.16
(1,836)	1:B:235:ARG:HA	1:B:238:LEU:HB3	20	0.16
(1,835)	1:A:35:ARG:HA	1:A:38:LEU:HB3	3	0.16
(1,835)	1:A:35:ARG:HA	1:A:38:LEU:HB3	5	0.16
(1,818)	1:B:221:ILE:HA	1:B:224:LEU:HB3	3	0.16
(1,818)	1:B:221:ILE:HA	1:B:224:LEU:HB3	10	0.16
(1,818)	1:B:221:ILE:HA	1:B:224:LEU:HB3	12	0.16
(1,818)	1:B:221:ILE:HA	1:B:224:LEU:HB3	15	0.16
(1,818)	1:B:221:ILE:HA	1:B:224:LEU:HB3	16	0.16
(1,818)	1:B:221:ILE:HA	1:B:224:LEU:HB3	19	0.16
(1,813)	1:A:20:VAL:HA	1:A:23:GLN:HB3	6	0.16
(1,778)	1:B:228:GLU:HB2	1:B:229:VAL:H	4	0.16
(1,76)	1:B:235:ARG:HB3	1:B:236:ALA:H	10	0.16
(1,757)	1:A:11:ARG:HB2	1:A:12:ILE:H	16	0.16
(1,75)	1:A:35:ARG:HB3	1:A:36:ALA:H	1	0.16
(1,75)	1:A:35:ARG:HB3	1:A:36:ALA:H	9	0.16
(1,746)	1:B:208:ASP:HA	1:B:209:MET:H	9	0.16
(1,74)	1:B:235:ARG:HB2	1:B:236:ALA:H	13	0.16
(1,73)	1:A:35:ARG:HB2	1:A:36:ALA:H	18	0.16
(1,720)	1:B:228:GLU:H	1:B:228:GLU:HB3	5	0.16
(1,719)	1:A:28:GLU:H	1:A:28:GLU:HB3	12	0.16
(1,696)	1:B:213:LEU:H	1:B:213:LEU:HB3	3	0.16
(1,696)	1:B:213:LEU:H	1:B:213:LEU:HB3	5	0.16
(1,696)	1:B:213:LEU:H	1:B:213:LEU:HB3	15	0.16
(1,696)	1:B:213:LEU:H	1:B:213:LEU:HB3	20	0.16
(1,695)	1:A:13:LEU:H	1:A:13:LEU:HB3	1	0.16
(1,695)	1:A:13:LEU:H	1:A:13:LEU:HB3	4	0.16
(1,695)	1:A:13:LEU:H	1:A:13:LEU:HB3	5	0.16
(1,695)	1:A:13:LEU:H	1:A:13:LEU:HB3	8	0.16
(1,695)	1:A:13:LEU:H	1:A:13:LEU:HB3	9	0.16
(1,646)	1:A:47:LEU:HD11	1:B:223:GLN:H	12	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,646)	1:A:47:LEU:HD12	1:B:223:GLN:H	12	0.16
(1,646)	1:A:47:LEU:HD13	1:B:223:GLN:H	12	0.16
(1,634)	1:A:39:LEU:HD11	1:B:215:ASP:H	6	0.16
(1,634)	1:A:39:LEU:HD12	1:B:215:ASP:H	6	0.16
(1,634)	1:A:39:LEU:HD13	1:B:215:ASP:H	6	0.16
(1,539)	1:A:34:PRO:HG3	1:A:37:ASP:H	19	0.16
(1,430)	1:B:207:ILE:H	1:B:207:ILE:HG12	14	0.16
(1,396)	1:A:13:LEU:HA	1:B:214:LEU:H	1	0.16
(1,366)	1:B:229:VAL:HA	1:B:233:LEU:H	11	0.16
(1,346)	1:B:227:LEU:HA	1:B:229:VAL:H	5	0.16
(1,224)	1:B:207:ILE:H	1:B:208:ASP:H	12	0.16
(1,2090)	1:B:249:ASN:HA	1:B:252:GLN:HB2	8	0.16
(1,2090)	1:B:249:ASN:HA	1:B:252:GLN:HB3	8	0.16
(1,180)	1:B:232:ASN:H	1:B:232:ASN:HB3	1	0.16
(1,180)	1:B:232:ASN:H	1:B:232:ASN:HB3	11	0.16
(1,179)	1:A:32:ASN:H	1:A:32:ASN:HB3	3	0.16
(1,1787)	1:A:11:ARG:HG2	1:A:12:ILE:HA	7	0.16
(1,1787)	1:A:11:ARG:HG3	1:A:12:ILE:HA	7	0.16
(1,170)	1:B:225:ASP:H	1:B:225:ASP:HB3	10	0.16
(1,169)	1:A:25:ASP:H	1:A:25:ASP:HB3	8	0.16
(1,147)	1:A:8:ASP:H	1:A:8:ASP:HB2	10	0.16
(1,117)	1:A:49:ASN:HB2	1:A:50:GLN:H	8	0.16
(1,1126)	1:B:217:SER:HB2	1:B:220:VAL:HB	14	0.16
(1,11)	1:A:10:GLY:H	1:A:11:ARG:H	10	0.16
(1,11)	1:A:10:GLY:H	1:A:11:ARG:H	15	0.16
(1,106)	1:B:246:TYR:HB2	1:B:247:LEU:H	3	0.16
(1,106)	1:B:246:TYR:HB2	1:B:247:LEU:H	17	0.16
(1,106)	1:B:246:TYR:HB2	1:B:247:LEU:H	20	0.16
(1,105)	1:A:46:TYR:HB2	1:A:47:LEU:H	14	0.16
(1,105)	1:A:46:TYR:HB2	1:A:47:LEU:H	19	0.16
(1,1022)	1:B:228:GLU:HA	1:B:228:GLU:HG3	14	0.16
(1,97)	1:A:44:ASP:HB2	1:A:45:GLN:H	5	0.15
(1,97)	1:A:44:ASP:HB2	1:A:45:GLN:H	19	0.15
(1,908)	1:B:231:ARG:H	1:B:232:ASN:HA	14	0.15
(1,869)	1:A:7:ILE:HA	1:A:9:MET:H	7	0.15
(1,868)	1:B:242:ALA:HA	1:B:245:GLN:HB3	18	0.15
(1,868)	1:B:242:ALA:HA	1:B:245:GLN:HB3	19	0.15
(1,867)	1:A:42:ALA:HA	1:A:45:GLN:HB3	3	0.15
(1,867)	1:A:42:ALA:HA	1:A:45:GLN:HB3	19	0.15
(1,844)	1:B:236:ALA:HA	1:B:239:LEU:HB3	12	0.15
(1,844)	1:B:236:ALA:HA	1:B:239:LEU:HB3	13	0.15
(1,844)	1:B:236:ALA:HA	1:B:239:LEU:HB3	18	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,843)	1:A:36:ALA:HA	1:A:39:LEU:HB3	12	0.15
(1,836)	1:B:235:ARG:HA	1:B:238:LEU:HB3	15	0.15
(1,823)	1:A:22:LYS:HA	1:A:25:ASP:HB3	17	0.15
(1,813)	1:A:20:VAL:HA	1:A:23:GLN:HB3	15	0.15
(1,813)	1:A:20:VAL:HA	1:A:23:GLN:HB3	17	0.15
(1,762)	1:B:212:ILE:HB	1:B:213:LEU:H	11	0.15
(1,761)	1:A:12:ILE:HB	1:A:13:LEU:H	16	0.15
(1,758)	1:B:211:ARG:HB2	1:B:212:ILE:H	15	0.15
(1,752)	1:B:210:GLY:HA2	1:B:211:ARG:H	14	0.15
(1,744)	1:B:207:ILE:HB	1:B:208:ASP:H	17	0.15
(1,743)	1:A:7:ILE:HB	1:A:8:ASP:H	17	0.15
(1,741)	1:A:7:ILE:HA	1:A:8:ASP:H	8	0.15
(1,720)	1:B:228:GLU:H	1:B:228:GLU:HB3	13	0.15
(1,719)	1:A:28:GLU:H	1:A:28:GLU:HB3	13	0.15
(1,707)	1:A:18:ASN:H	1:A:18:ASN:HB3	8	0.15
(1,707)	1:A:18:ASN:H	1:A:18:ASN:HB3	17	0.15
(1,698)	1:B:215:ASP:H	1:B:215:ASP:HB2	7	0.15
(1,698)	1:B:215:ASP:H	1:B:215:ASP:HB2	9	0.15
(1,697)	1:A:15:ASP:H	1:A:15:ASP:HB2	5	0.15
(1,696)	1:B:213:LEU:H	1:B:213:LEU:HB3	8	0.15
(1,695)	1:A:13:LEU:H	1:A:13:LEU:HB3	18	0.15
(1,666)	1:B:245:GLN:H	1:B:248:ILE:HD11	20	0.15
(1,666)	1:B:245:GLN:H	1:B:248:ILE:HD12	20	0.15
(1,666)	1:B:245:GLN:H	1:B:248:ILE:HD13	20	0.15
(1,651)	1:A:27:LEU:H	1:A:38:LEU:HD11	15	0.15
(1,651)	1:A:27:LEU:H	1:A:38:LEU:HD12	15	0.15
(1,651)	1:A:27:LEU:H	1:A:38:LEU:HD13	15	0.15
(1,645)	1:A:23:GLN:H	1:B:247:LEU:HD11	8	0.15
(1,645)	1:A:23:GLN:H	1:B:247:LEU:HD12	8	0.15
(1,645)	1:A:23:GLN:H	1:B:247:LEU:HD13	8	0.15
(1,58)	1:B:225:ASP:HB2	1:B:226:ASP:H	5	0.15
(1,549)	1:A:13:LEU:HD21	1:A:14:LEU:H	2	0.15
(1,549)	1:A:13:LEU:HD22	1:A:14:LEU:H	2	0.15
(1,549)	1:A:13:LEU:HD23	1:A:14:LEU:H	2	0.15
(1,540)	1:B:234:PRO:HG3	1:B:237:ASP:H	2	0.15
(1,539)	1:A:34:PRO:HG3	1:A:37:ASP:H	8	0.15
(1,539)	1:A:34:PRO:HG3	1:A:37:ASP:H	10	0.15
(1,4)	1:B:206:GLY:H	1:B:207:ILE:H	1	0.15
(1,4)	1:B:206:GLY:H	1:B:207:ILE:H	7	0.15
(1,395)	1:A:14:LEU:H	1:B:213:LEU:HA	5	0.15
(1,395)	1:A:14:LEU:H	1:B:213:LEU:HA	15	0.15
(1,375)	1:A:44:ASP:HA	1:A:48:ILE:H	9	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,369)	1:A:34:PRO:HB3	1:A:36:ALA:H	13	0.15
(1,369)	1:A:34:PRO:HB3	1:A:36:ALA:H	18	0.15
(1,367)	1:A:31:ARG:H	1:A:33:LEU:H	10	0.15
(1,345)	1:A:27:LEU:HA	1:A:29:VAL:H	19	0.15
(1,339)	1:A:22:LYS:HA	1:A:25:ASP:H	18	0.15
(1,3)	1:A:6:GLY:H	1:A:7:ILE:H	13	0.15
(1,24)	1:B:214:LEU:HB2	1:B:215:ASP:H	11	0.15
(1,24)	1:B:214:LEU:HB2	1:B:215:ASP:H	15	0.15
(1,23)	1:A:14:LEU:HB2	1:A:15:ASP:H	9	0.15
(1,2122)	1:B:276:LEU:HB2	1:B:276:LEU:HG	4	0.15
(1,2122)	1:B:276:LEU:HB3	1:B:276:LEU:HG	4	0.15
(1,2120)	1:B:276:LEU:H	1:B:276:LEU:HD11	6	0.15
(1,2120)	1:B:276:LEU:H	1:B:276:LEU:HD12	6	0.15
(1,2120)	1:B:276:LEU:H	1:B:276:LEU:HD13	6	0.15
(1,2120)	1:B:276:LEU:H	1:B:276:LEU:HD21	6	0.15
(1,2120)	1:B:276:LEU:H	1:B:276:LEU:HD22	6	0.15
(1,2120)	1:B:276:LEU:H	1:B:276:LEU:HD23	6	0.15
(1,1826)	1:A:11:ARG:HD2	1:B:213:LEU:HG	18	0.15
(1,1826)	1:A:11:ARG:HD3	1:B:213:LEU:HG	18	0.15
(1,180)	1:B:232:ASN:H	1:B:232:ASN:HB3	7	0.15
(1,179)	1:A:32:ASN:H	1:A:32:ASN:HB3	1	0.15
(1,179)	1:A:32:ASN:H	1:A:32:ASN:HB3	13	0.15
(1,179)	1:A:32:ASN:H	1:A:32:ASN:HB3	20	0.15
(1,1515)	1:A:27:LEU:HD21	1:B:247:LEU:HG	6	0.15
(1,1515)	1:A:27:LEU:HD22	1:B:247:LEU:HG	6	0.15
(1,1515)	1:A:27:LEU:HD23	1:B:247:LEU:HG	6	0.15
(1,144)	1:B:279:GLU:H	1:B:280:TRP:H	1	0.15
(1,144)	1:B:279:GLU:H	1:B:280:TRP:H	6	0.15
(1,143)	1:A:79:GLU:H	1:A:80:TRP:H	10	0.15
(1,1206)	1:A:46:TYR:HB3	1:B:242:ALA:HA	1	0.15
(1,12)	1:B:210:GLY:H	1:B:211:ARG:H	11	0.15
(1,1102)	1:B:216:LEU:HG	1:B:217:SER:H	2	0.15
(1,1102)	1:B:216:LEU:HG	1:B:217:SER:H	11	0.15
(1,1101)	1:A:16:LEU:HG	1:A:17:SER:H	10	0.15
(1,106)	1:B:246:TYR:HB2	1:B:247:LEU:H	1	0.15
(1,105)	1:A:46:TYR:HB2	1:A:47:LEU:H	15	0.15
(1,1029)	1:A:30:GLN:HA	1:A:30:GLN:HG3	15	0.15
(1,1027)	1:A:30:GLN:H	1:A:30:GLN:HG3	18	0.15
(1,1022)	1:B:228:GLU:HA	1:B:228:GLU:HG3	8	0.15
(1,1022)	1:B:228:GLU:HA	1:B:228:GLU:HG3	15	0.15
(1,1021)	1:A:28:GLU:HA	1:A:28:GLU:HG3	6	0.15
(1,98)	1:B:244:ASP:HB2	1:B:245:GLN:H	6	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,910)	1:B:234:PRO:HB3	1:B:237:ASP:H	3	0.14
(1,909)	1:A:34:PRO:HB3	1:A:37:ASP:H	9	0.14
(1,909)	1:A:34:PRO:HB3	1:A:37:ASP:H	13	0.14
(1,909)	1:A:34:PRO:HB3	1:A:37:ASP:H	14	0.14
(1,907)	1:A:31:ARG:H	1:A:32:ASN:HA	5	0.14
(1,886)	1:B:216:LEU:HA	1:B:217:SER:HB2	9	0.14
(1,868)	1:B:242:ALA:HA	1:B:245:GLN:HB3	11	0.14
(1,862)	1:B:241:GLU:HA	1:B:244:ASP:HB3	1	0.14
(1,844)	1:B:236:ALA:HA	1:B:239:LEU:HB3	16	0.14
(1,843)	1:A:36:ALA:HA	1:A:39:LEU:HB3	17	0.14
(1,835)	1:A:35:ARG:HA	1:A:38:LEU:HB3	4	0.14
(1,835)	1:A:35:ARG:HA	1:A:38:LEU:HB3	6	0.14
(1,817)	1:A:21:ILE:HA	1:A:24:LEU:HB3	15	0.14
(1,814)	1:B:220:VAL:HA	1:B:223:GLN:HB3	10	0.14
(1,813)	1:A:20:VAL:HA	1:A:23:GLN:HB3	10	0.14
(1,813)	1:A:20:VAL:HA	1:A:23:GLN:HB3	19	0.14
(1,762)	1:B:212:ILE:HB	1:B:213:LEU:H	4	0.14
(1,762)	1:B:212:ILE:HB	1:B:213:LEU:H	9	0.14
(1,761)	1:A:12:ILE:HB	1:A:13:LEU:H	6	0.14
(1,752)	1:B:210:GLY:HA2	1:B:211:ARG:H	13	0.14
(1,742)	1:B:207:ILE:HA	1:B:208:ASP:H	11	0.14
(1,74)	1:B:235:ARG:HB2	1:B:236:ALA:H	12	0.14
(1,736)	1:B:245:GLN:H	1:B:245:GLN:HB3	4	0.14
(1,736)	1:B:245:GLN:H	1:B:245:GLN:HB3	5	0.14
(1,736)	1:B:245:GLN:H	1:B:245:GLN:HB3	9	0.14
(1,735)	1:A:45:GLN:H	1:A:45:GLN:HB3	11	0.14
(1,735)	1:A:45:GLN:H	1:A:45:GLN:HB3	12	0.14
(1,724)	1:B:233:LEU:H	1:B:233:LEU:HB2	19	0.14
(1,720)	1:B:228:GLU:H	1:B:228:GLU:HB3	9	0.14
(1,719)	1:A:28:GLU:H	1:A:28:GLU:HB3	1	0.14
(1,719)	1:A:28:GLU:H	1:A:28:GLU:HB3	3	0.14
(1,698)	1:B:215:ASP:H	1:B:215:ASP:HB2	14	0.14
(1,697)	1:A:15:ASP:H	1:A:15:ASP:HB2	10	0.14
(1,697)	1:A:15:ASP:H	1:A:15:ASP:HB2	11	0.14
(1,646)	1:A:47:LEU:HD11	1:B:223:GLN:H	13	0.14
(1,646)	1:A:47:LEU:HD12	1:B:223:GLN:H	13	0.14
(1,646)	1:A:47:LEU:HD13	1:B:223:GLN:H	13	0.14
(1,645)	1:A:23:GLN:H	1:B:247:LEU:HD11	6	0.14
(1,645)	1:A:23:GLN:H	1:B:247:LEU:HD12	6	0.14
(1,645)	1:A:23:GLN:H	1:B:247:LEU:HD13	6	0.14
(1,645)	1:A:23:GLN:H	1:B:247:LEU:HD11	11	0.14
(1,645)	1:A:23:GLN:H	1:B:247:LEU:HD12	11	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,645)	1:A:23:GLN:H	1:B:247:LEU:HD13	11	0.14
(1,454)	1:B:227:LEU:H	1:B:227:LEU:HG	10	0.14
(1,370)	1:B:234:PRO:HB3	1:B:236:ALA:H	10	0.14
(1,369)	1:A:34:PRO:HB3	1:A:36:ALA:H	12	0.14
(1,365)	1:A:29:VAL:HA	1:A:33:LEU:H	6	0.14
(1,345)	1:A:27:LEU:HA	1:A:29:VAL:H	10	0.14
(1,323)	1:A:12:ILE:H	1:B:213:LEU:HA	13	0.14
(1,2044)	1:B:246:TYR:HA	1:B:250:GLN:HE21	10	0.14
(1,2044)	1:B:246:TYR:HA	1:B:250:GLN:HE22	10	0.14
(1,2043)	1:A:46:TYR:HA	1:A:50:GLN:HE21	12	0.14
(1,2043)	1:A:46:TYR:HA	1:A:50:GLN:HE22	12	0.14
(1,179)	1:A:32:ASN:H	1:A:32:ASN:HB3	9	0.14
(1,179)	1:A:32:ASN:H	1:A:32:ASN:HB3	12	0.14
(1,1789)	1:A:11:ARG:HD2	1:A:13:LEU:H	18	0.14
(1,1789)	1:A:11:ARG:HD3	1:A:13:LEU:H	18	0.14
(1,1722)	1:B:244:ASP:HA	1:B:248:ILE:HD11	20	0.14
(1,1722)	1:B:244:ASP:HA	1:B:248:ILE:HD12	20	0.14
(1,1722)	1:B:244:ASP:HA	1:B:248:ILE:HD13	20	0.14
(1,158)	1:B:215:ASP:H	1:B:215:ASP:HB3	18	0.14
(1,157)	1:A:15:ASP:H	1:A:15:ASP:HB3	12	0.14
(1,1538)	1:B:231:ARG:HB3	1:B:238:LEU:HD21	6	0.14
(1,1538)	1:B:231:ARG:HB3	1:B:238:LEU:HD22	6	0.14
(1,1538)	1:B:231:ARG:HB3	1:B:238:LEU:HD23	6	0.14
(1,1415)	1:A:12:ILE:HG21	1:A:14:LEU:HB3	1	0.14
(1,1415)	1:A:12:ILE:HG22	1:A:14:LEU:HB3	1	0.14
(1,1415)	1:A:12:ILE:HG23	1:A:14:LEU:HB3	1	0.14
(1,1400)	1:A:35:ARG:HD3	1:B:212:ILE:HD11	15	0.14
(1,1400)	1:A:35:ARG:HD3	1:B:212:ILE:HD12	15	0.14
(1,1400)	1:A:35:ARG:HD3	1:B:212:ILE:HD13	15	0.14
(1,138)	1:B:271:GLU:H	1:B:272:TYR:H	6	0.14
(1,137)	1:A:71:GLU:H	1:A:72:TYR:H	19	0.14
(1,12)	1:B:210:GLY:H	1:B:211:ARG:H	4	0.14
(1,1187)	1:A:28:GLU:HG2	1:A:35:ARG:HA	18	0.14
(1,118)	1:B:249:ASN:HB2	1:B:250:GLN:H	6	0.14
(1,117)	1:A:49:ASN:HB2	1:A:50:GLN:H	16	0.14
(1,1140)	1:B:218:ASN:HA	1:B:221:ILE:HG12	1	0.14
(1,1118)	1:A:14:LEU:HB2	1:B:212:ILE:HB	18	0.14
(1,1101)	1:A:16:LEU:HG	1:A:17:SER:H	1	0.14
(1,11)	1:A:10:GLY:H	1:A:11:ARG:H	11	0.14
(1,106)	1:B:246:TYR:HB2	1:B:247:LEU:H	2	0.14
(1,106)	1:B:246:TYR:HB2	1:B:247:LEU:H	15	0.14
(1,105)	1:A:46:TYR:HB2	1:A:47:LEU:H	3	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,103)	1:A:45:GLN:HB3	1:A:46:TYR:H	9	0.14
(1,1022)	1:B:228:GLU:HA	1:B:228:GLU:HG3	10	0.14
(1,1022)	1:B:228:GLU:HA	1:B:228:GLU:HG3	17	0.14
(1,1021)	1:A:28:GLU:HA	1:A:28:GLU:HG3	10	0.14
(1,1021)	1:A:28:GLU:HA	1:A:28:GLU:HG3	19	0.14
(1,1021)	1:A:28:GLU:HA	1:A:28:GLU:HG3	20	0.14
(1,1020)	1:B:228:GLU:HA	1:B:228:GLU:HG2	19	0.14
(1,98)	1:B:244:ASP:HB2	1:B:245:GLN:H	4	0.13
(1,98)	1:B:244:ASP:HB2	1:B:245:GLN:H	9	0.13
(1,97)	1:A:44:ASP:HB2	1:A:45:GLN:H	4	0.13
(1,930)	1:B:246:TYR:HA	1:B:249:ASN:HB3	12	0.13
(1,910)	1:B:234:PRO:HB3	1:B:237:ASP:H	9	0.13
(1,908)	1:B:231:ARG:H	1:B:232:ASN:HA	18	0.13
(1,886)	1:B:216:LEU:HA	1:B:217:SER:HB2	2	0.13
(1,868)	1:B:242:ALA:HA	1:B:245:GLN:HB3	17	0.13
(1,867)	1:A:42:ALA:HA	1:A:45:GLN:HB3	4	0.13
(1,867)	1:A:42:ALA:HA	1:A:45:GLN:HB3	7	0.13
(1,867)	1:A:42:ALA:HA	1:A:45:GLN:HB3	16	0.13
(1,867)	1:A:42:ALA:HA	1:A:45:GLN:HB3	18	0.13
(1,867)	1:A:42:ALA:HA	1:A:45:GLN:HB3	20	0.13
(1,844)	1:B:236:ALA:HA	1:B:239:LEU:HB3	15	0.13
(1,843)	1:A:36:ALA:HA	1:A:39:LEU:HB3	4	0.13
(1,843)	1:A:36:ALA:HA	1:A:39:LEU:HB3	10	0.13
(1,836)	1:B:235:ARG:HA	1:B:238:LEU:HB3	7	0.13
(1,836)	1:B:235:ARG:HA	1:B:238:LEU:HB3	19	0.13
(1,814)	1:B:220:VAL:HA	1:B:223:GLN:HB3	12	0.13
(1,807)	1:A:19:GLU:HA	1:A:23:GLN:H	8	0.13
(1,761)	1:A:12:ILE:HB	1:A:13:LEU:H	8	0.13
(1,76)	1:B:235:ARG:HB3	1:B:236:ALA:H	7	0.13
(1,758)	1:B:211:ARG:HB2	1:B:212:ILE:H	5	0.13
(1,758)	1:B:211:ARG:HB2	1:B:212:ILE:H	8	0.13
(1,750)	1:B:209:MET:HB2	1:B:210:GLY:H	17	0.13
(1,75)	1:A:35:ARG:HB3	1:A:36:ALA:H	3	0.13
(1,749)	1:A:9:MET:HB2	1:A:10:GLY:H	15	0.13
(1,749)	1:A:9:MET:HB2	1:A:10:GLY:H	20	0.13
(1,743)	1:A:7:ILE:HB	1:A:8:ASP:H	13	0.13
(1,74)	1:B:235:ARG:HB2	1:B:236:ALA:H	15	0.13
(1,736)	1:B:245:GLN:H	1:B:245:GLN:HB3	2	0.13
(1,736)	1:B:245:GLN:H	1:B:245:GLN:HB3	6	0.13
(1,736)	1:B:245:GLN:H	1:B:245:GLN:HB3	7	0.13
(1,736)	1:B:245:GLN:H	1:B:245:GLN:HB3	8	0.13
(1,736)	1:B:245:GLN:H	1:B:245:GLN:HB3	10	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,736)	1:B:245:GLN:H	1:B:245:GLN:HB3	12	0.13
(1,736)	1:B:245:GLN:H	1:B:245:GLN:HB3	13	0.13
(1,736)	1:B:245:GLN:H	1:B:245:GLN:HB3	14	0.13
(1,736)	1:B:245:GLN:H	1:B:245:GLN:HB3	17	0.13
(1,736)	1:B:245:GLN:H	1:B:245:GLN:HB3	20	0.13
(1,735)	1:A:45:GLN:H	1:A:45:GLN:HB3	2	0.13
(1,735)	1:A:45:GLN:H	1:A:45:GLN:HB3	3	0.13
(1,735)	1:A:45:GLN:H	1:A:45:GLN:HB3	4	0.13
(1,735)	1:A:45:GLN:H	1:A:45:GLN:HB3	5	0.13
(1,735)	1:A:45:GLN:H	1:A:45:GLN:HB3	8	0.13
(1,735)	1:A:45:GLN:H	1:A:45:GLN:HB3	14	0.13
(1,735)	1:A:45:GLN:H	1:A:45:GLN:HB3	17	0.13
(1,735)	1:A:45:GLN:H	1:A:45:GLN:HB3	19	0.13
(1,719)	1:A:28:GLU:H	1:A:28:GLU:HB3	9	0.13
(1,719)	1:A:28:GLU:H	1:A:28:GLU:HB3	14	0.13
(1,651)	1:A:27:LEU:H	1:A:38:LEU:HD11	19	0.13
(1,651)	1:A:27:LEU:H	1:A:38:LEU:HD12	19	0.13
(1,651)	1:A:27:LEU:H	1:A:38:LEU:HD13	19	0.13
(1,646)	1:A:47:LEU:HD11	1:B:223:GLN:H	1	0.13
(1,646)	1:A:47:LEU:HD12	1:B:223:GLN:H	1	0.13
(1,646)	1:A:47:LEU:HD13	1:B:223:GLN:H	1	0.13
(1,645)	1:A:23:GLN:H	1:B:247:LEU:HD11	1	0.13
(1,645)	1:A:23:GLN:H	1:B:247:LEU:HD12	1	0.13
(1,645)	1:A:23:GLN:H	1:B:247:LEU:HD13	1	0.13
(1,645)	1:A:23:GLN:H	1:B:247:LEU:HD11	7	0.13
(1,645)	1:A:23:GLN:H	1:B:247:LEU:HD12	7	0.13
(1,645)	1:A:23:GLN:H	1:B:247:LEU:HD13	7	0.13
(1,645)	1:A:23:GLN:H	1:B:247:LEU:HD11	20	0.13
(1,645)	1:A:23:GLN:H	1:B:247:LEU:HD12	20	0.13
(1,645)	1:A:23:GLN:H	1:B:247:LEU:HD13	20	0.13
(1,58)	1:B:225:ASP:HB2	1:B:226:ASP:H	3	0.13
(1,57)	1:A:25:ASP:HB2	1:A:26:ASP:H	18	0.13
(1,540)	1:B:234:PRO:HG3	1:B:237:ASP:H	18	0.13
(1,539)	1:A:34:PRO:HG3	1:A:37:ASP:H	2	0.13
(1,469)	1:A:50:GLN:H	1:A:50:GLN:HG3	14	0.13
(1,410)	1:B:214:LEU:HG	1:B:215:ASP:H	11	0.13
(1,410)	1:B:214:LEU:HG	1:B:215:ASP:H	15	0.13
(1,370)	1:B:234:PRO:HB3	1:B:236:ALA:H	3	0.13
(1,366)	1:B:229:VAL:HA	1:B:233:LEU:H	13	0.13
(1,366)	1:B:229:VAL:HA	1:B:233:LEU:H	16	0.13
(1,339)	1:A:22:LYS:HA	1:A:25:ASP:H	20	0.13
(1,227)	1:A:9:MET:H	1:A:10:GLY:H	2	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,214)	1:B:250:GLN:H	1:B:250:GLN:HB3	15	0.13
(1,211)	1:A:50:GLN:H	1:A:50:GLN:HB2	5	0.13
(1,2090)	1:B:249:ASN:HA	1:B:252:GLN:HB2	5	0.13
(1,2090)	1:B:249:ASN:HA	1:B:252:GLN:HB3	5	0.13
(1,1748)	1:B:204:LEU:H	1:B:204:LEU:HD11	19	0.13
(1,1748)	1:B:204:LEU:H	1:B:204:LEU:HD12	19	0.13
(1,1748)	1:B:204:LEU:H	1:B:204:LEU:HD13	19	0.13
(1,1748)	1:B:204:LEU:H	1:B:204:LEU:HD21	19	0.13
(1,1748)	1:B:204:LEU:H	1:B:204:LEU:HD22	19	0.13
(1,1748)	1:B:204:LEU:H	1:B:204:LEU:HD23	19	0.13
(1,1516)	1:A:47:LEU:HG	1:B:227:LEU:HD21	14	0.13
(1,1516)	1:A:47:LEU:HG	1:B:227:LEU:HD22	14	0.13
(1,1516)	1:A:47:LEU:HG	1:B:227:LEU:HD23	14	0.13
(1,144)	1:B:279:GLU:H	1:B:280:TRP:H	14	0.13
(1,138)	1:B:271:GLU:H	1:B:272:TYR:H	1	0.13
(1,1334)	1:B:213:LEU:HD11	1:B:214:LEU:H	18	0.13
(1,1334)	1:B:213:LEU:HD12	1:B:214:LEU:H	18	0.13
(1,1334)	1:B:213:LEU:HD13	1:B:214:LEU:H	18	0.13
(1,1206)	1:A:46:TYR:HB3	1:B:242:ALA:HA	6	0.13
(1,1188)	1:B:228:GLU:HG2	1:B:235:ARG:HA	12	0.13
(1,1187)	1:A:28:GLU:HG2	1:A:35:ARG:HA	11	0.13
(1,118)	1:B:249:ASN:HB2	1:B:250:GLN:H	2	0.13
(1,117)	1:A:49:ASN:HB2	1:A:50:GLN:H	3	0.13
(1,1157)	1:A:31:ARG:HD2	1:A:33:LEU:H	14	0.13
(1,1157)	1:A:31:ARG:HD3	1:A:33:LEU:H	14	0.13
(1,1126)	1:B:217:SER:HB2	1:B:220:VAL:HB	11	0.13
(1,1125)	1:A:17:SER:HB2	1:A:20:VAL:HB	8	0.13
(1,1114)	1:A:17:SER:HA	1:B:209:MET:HG3	8	0.13
(1,1111)	1:A:9:MET:HG2	1:B:217:SER:HA	19	0.13
(1,1094)	1:B:276:LEU:HB3	1:B:276:LEU:HG	1	0.13
(1,1069)	1:A:45:GLN:H	1:A:45:GLN:HG3	13	0.13
(1,106)	1:B:246:TYR:HB2	1:B:247:LEU:H	18	0.13
(1,105)	1:A:46:TYR:HB2	1:A:47:LEU:H	16	0.13
(1,1029)	1:A:30:GLN:HA	1:A:30:GLN:HG3	13	0.13
(1,1021)	1:A:28:GLU:HA	1:A:28:GLU:HG3	7	0.13
(1,1021)	1:A:28:GLU:HA	1:A:28:GLU:HG3	17	0.13
(1,981)	1:A:14:LEU:H	1:A:14:LEU:HG	1	0.12
(1,97)	1:A:44:ASP:HB2	1:A:45:GLN:H	7	0.12
(1,97)	1:A:44:ASP:HB2	1:A:45:GLN:H	15	0.12
(1,937)	1:A:17:SER:HB3	1:A:18:ASN:H	4	0.12
(1,899)	1:A:28:GLU:HA	1:A:33:LEU:H	5	0.12
(1,886)	1:B:216:LEU:HA	1:B:217:SER:HB2	7	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,886)	1:B:216:LEU:HA	1:B:217:SER:HB2	17	0.12
(1,876)	1:B:213:LEU:HA	1:B:214:LEU:HB3	6	0.12
(1,867)	1:A:42:ALA:HA	1:A:45:GLN:HB3	14	0.12
(1,844)	1:B:236:ALA:HA	1:B:239:LEU:HB3	14	0.12
(1,843)	1:A:36:ALA:HA	1:A:39:LEU:HB3	3	0.12
(1,843)	1:A:36:ALA:HA	1:A:39:LEU:HB3	8	0.12
(1,843)	1:A:36:ALA:HA	1:A:39:LEU:HB3	19	0.12
(1,836)	1:B:235:ARG:HA	1:B:238:LEU:HB3	8	0.12
(1,835)	1:A:35:ARG:HA	1:A:38:LEU:HB3	7	0.12
(1,803)	1:A:18:ASN:HA	1:A:22:LYS:H	7	0.12
(1,801)	1:A:18:ASN:HA	1:A:21:ILE:HB	9	0.12
(1,751)	1:A:10:GLY:HA2	1:A:11:ARG:H	16	0.12
(1,743)	1:A:7:ILE:HB	1:A:8:ASP:H	12	0.12
(1,74)	1:B:235:ARG:HB2	1:B:236:ALA:H	6	0.12
(1,736)	1:B:245:GLN:H	1:B:245:GLN:HB3	11	0.12
(1,736)	1:B:245:GLN:H	1:B:245:GLN:HB3	16	0.12
(1,736)	1:B:245:GLN:H	1:B:245:GLN:HB3	19	0.12
(1,735)	1:A:45:GLN:H	1:A:45:GLN:HB3	1	0.12
(1,735)	1:A:45:GLN:H	1:A:45:GLN:HB3	6	0.12
(1,735)	1:A:45:GLN:H	1:A:45:GLN:HB3	7	0.12
(1,735)	1:A:45:GLN:H	1:A:45:GLN:HB3	9	0.12
(1,735)	1:A:45:GLN:H	1:A:45:GLN:HB3	10	0.12
(1,735)	1:A:45:GLN:H	1:A:45:GLN:HB3	15	0.12
(1,735)	1:A:45:GLN:H	1:A:45:GLN:HB3	18	0.12
(1,735)	1:A:45:GLN:H	1:A:45:GLN:HB3	20	0.12
(1,73)	1:A:35:ARG:HB2	1:A:36:ALA:H	5	0.12
(1,73)	1:A:35:ARG:HB2	1:A:36:ALA:H	7	0.12
(1,73)	1:A:35:ARG:HB2	1:A:36:ALA:H	8	0.12
(1,73)	1:A:35:ARG:HB2	1:A:36:ALA:H	14	0.12
(1,728)	1:B:235:ARG:H	1:B:235:ARG:HB2	5	0.12
(1,698)	1:B:215:ASP:H	1:B:215:ASP:HB2	2	0.12
(1,697)	1:A:15:ASP:H	1:A:15:ASP:HB2	3	0.12
(1,697)	1:A:15:ASP:H	1:A:15:ASP:HB2	14	0.12
(1,664)	1:A:14:LEU:HD11	1:B:236:ALA:H	11	0.12
(1,664)	1:A:14:LEU:HD12	1:B:236:ALA:H	11	0.12
(1,664)	1:A:14:LEU:HD13	1:B:236:ALA:H	11	0.12
(1,652)	1:B:227:LEU:H	1:B:238:LEU:HD11	11	0.12
(1,652)	1:B:227:LEU:H	1:B:238:LEU:HD12	11	0.12
(1,652)	1:B:227:LEU:H	1:B:238:LEU:HD13	11	0.12
(1,645)	1:A:23:GLN:H	1:B:247:LEU:HD11	5	0.12
(1,645)	1:A:23:GLN:H	1:B:247:LEU:HD12	5	0.12
(1,645)	1:A:23:GLN:H	1:B:247:LEU:HD13	5	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,645)	1:A:23:GLN:H	1:B:247:LEU:HD11	9	0.12
(1,645)	1:A:23:GLN:H	1:B:247:LEU:HD12	9	0.12
(1,645)	1:A:23:GLN:H	1:B:247:LEU:HD13	9	0.12
(1,59)	1:A:26:ASP:HB2	1:A:27:LEU:H	17	0.12
(1,57)	1:A:25:ASP:HB2	1:A:26:ASP:H	12	0.12
(1,57)	1:A:25:ASP:HB2	1:A:26:ASP:H	15	0.12
(1,540)	1:B:234:PRO:HG3	1:B:237:ASP:H	15	0.12
(1,540)	1:B:234:PRO:HG3	1:B:237:ASP:H	19	0.12
(1,511)	1:A:50:GLN:HA	1:A:50:GLN:HE22	2	0.12
(1,507)	1:A:50:GLN:HB2	1:A:50:GLN:HE21	12	0.12
(1,470)	1:B:250:GLN:H	1:B:250:GLN:HG3	6	0.12
(1,454)	1:B:227:LEU:H	1:B:227:LEU:HG	3	0.12
(1,453)	1:A:27:LEU:H	1:A:27:LEU:HG	3	0.12
(1,430)	1:B:207:ILE:H	1:B:207:ILE:HG12	15	0.12
(1,430)	1:B:207:ILE:H	1:B:207:ILE:HG12	16	0.12
(1,405)	1:A:11:ARG:HG2	1:A:12:ILE:H	4	0.12
(1,400)	1:A:9:MET:HA	1:B:218:ASN:H	13	0.12
(1,400)	1:A:9:MET:HA	1:B:218:ASN:H	16	0.12
(1,396)	1:A:13:LEU:HA	1:B:214:LEU:H	3	0.12
(1,395)	1:A:14:LEU:H	1:B:213:LEU:HA	1	0.12
(1,370)	1:B:234:PRO:HB3	1:B:236:ALA:H	13	0.12
(1,370)	1:B:234:PRO:HB3	1:B:236:ALA:H	15	0.12
(1,23)	1:A:14:LEU:HB2	1:A:15:ASP:H	1	0.12
(1,228)	1:B:209:MET:H	1:B:210:GLY:H	16	0.12
(1,214)	1:B:250:GLN:H	1:B:250:GLN:HB3	1	0.12
(1,214)	1:B:250:GLN:H	1:B:250:GLN:HB3	20	0.12
(1,213)	1:A:50:GLN:H	1:A:50:GLN:HB3	6	0.12
(1,213)	1:A:50:GLN:H	1:A:50:GLN:HB3	10	0.12
(1,211)	1:A:50:GLN:H	1:A:50:GLN:HB2	2	0.12
(1,2093)	1:A:50:GLN:H	1:A:50:GLN:HG2	13	0.12
(1,2093)	1:A:50:GLN:H	1:A:50:GLN:HG3	13	0.12
(1,2008)	1:B:241:GLU:H	1:B:241:GLU:HG2	6	0.12
(1,2008)	1:B:241:GLU:H	1:B:241:GLU:HG3	6	0.12
(1,178)	1:B:232:ASN:H	1:B:232:ASN:HB2	17	0.12
(1,177)	1:A:32:ASN:H	1:A:32:ASN:HB2	14	0.12
(1,177)	1:A:32:ASN:H	1:A:32:ASN:HB2	16	0.12
(1,177)	1:A:32:ASN:H	1:A:32:ASN:HB2	19	0.12
(1,170)	1:B:225:ASP:H	1:B:225:ASP:HB3	19	0.12
(1,1686)	1:A:39:LEU:HD11	1:B:214:LEU:HB3	8	0.12
(1,1686)	1:A:39:LEU:HD12	1:B:214:LEU:HB3	8	0.12
(1,1686)	1:A:39:LEU:HD13	1:B:214:LEU:HB3	8	0.12
(1,1516)	1:A:47:LEU:HG	1:B:227:LEU:HD21	4	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1516)	1:A:47:LEU:HG	1:B:227:LEU:HD22	4	0.12
(1,1516)	1:A:47:LEU:HG	1:B:227:LEU:HD23	4	0.12
(1,1516)	1:A:47:LEU:HG	1:B:227:LEU:HD21	5	0.12
(1,1516)	1:A:47:LEU:HG	1:B:227:LEU:HD22	5	0.12
(1,1516)	1:A:47:LEU:HG	1:B:227:LEU:HD23	5	0.12
(1,1515)	1:A:27:LEU:HD21	1:B:247:LEU:HG	11	0.12
(1,1515)	1:A:27:LEU:HD22	1:B:247:LEU:HG	11	0.12
(1,1515)	1:A:27:LEU:HD23	1:B:247:LEU:HG	11	0.12
(1,1416)	1:B:212:ILE:HG21	1:B:214:LEU:HB3	15	0.12
(1,1416)	1:B:212:ILE:HG22	1:B:214:LEU:HB3	15	0.12
(1,1416)	1:B:212:ILE:HG23	1:B:214:LEU:HB3	15	0.12
(1,13)	1:A:11:ARG:HB3	1:A:12:ILE:H	5	0.12
(1,123)	1:A:50:GLN:HA	1:A:51:SER:H	14	0.12
(1,1205)	1:A:42:ALA:HA	1:B:246:TYR:HB3	13	0.12
(1,1187)	1:A:28:GLU:HG2	1:A:35:ARG:HA	16	0.12
(1,117)	1:A:49:ASN:HB2	1:A:50:GLN:H	19	0.12
(1,1157)	1:A:31:ARG:HD2	1:A:33:LEU:H	5	0.12
(1,1157)	1:A:31:ARG:HD3	1:A:33:LEU:H	5	0.12
(1,1125)	1:A:17:SER:HB2	1:A:20:VAL:HB	19	0.12
(1,1118)	1:A:14:LEU:HB2	1:B:212:ILE:HB	8	0.12
(1,1112)	1:A:17:SER:HA	1:B:209:MET:HG2	20	0.12
(1,1100)	1:B:211:ARG:HD3	1:B:212:ILE:H	3	0.12
(1,11)	1:A:10:GLY:H	1:A:11:ARG:H	13	0.12
(1,1071)	1:A:45:GLN:HA	1:A:45:GLN:HG3	18	0.12
(1,1054)	1:B:240:ARG:HB3	1:B:240:ARG:HD2	10	0.12
(1,1054)	1:B:240:ARG:HB3	1:B:240:ARG:HD2	14	0.12
(1,1054)	1:B:240:ARG:HB3	1:B:240:ARG:HD2	15	0.12
(1,1053)	1:A:40:ARG:HB3	1:A:40:ARG:HD2	8	0.12
(1,1053)	1:A:40:ARG:HB3	1:A:40:ARG:HD2	10	0.12
(1,105)	1:A:46:TYR:HB2	1:A:47:LEU:H	17	0.12
(1,104)	1:B:245:GLN:HB3	1:B:246:TYR:H	4	0.12
(1,1030)	1:B:230:GLN:HA	1:B:230:GLN:HG3	14	0.12
(1,103)	1:A:45:GLN:HB3	1:A:46:TYR:H	1	0.12
(1,1029)	1:A:30:GLN:HA	1:A:30:GLN:HG3	17	0.12
(1,1022)	1:B:228:GLU:HA	1:B:228:GLU:HG3	16	0.12
(1,1020)	1:B:228:GLU:HA	1:B:228:GLU:HG2	6	0.12
(1,1016)	1:B:224:LEU:HA	1:B:224:LEU:HG	14	0.12
(1,98)	1:B:244:ASP:HB2	1:B:245:GLN:H	10	0.11
(1,98)	1:B:244:ASP:HB2	1:B:245:GLN:H	16	0.11
(1,910)	1:B:234:PRO:HB3	1:B:237:ASP:H	20	0.11
(1,909)	1:A:34:PRO:HB3	1:A:37:ASP:H	17	0.11
(1,907)	1:A:31:ARG:H	1:A:32:ASN:HA	4	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,907)	1:A:31:ARG:H	1:A:32:ASN:HA	7	0.11
(1,907)	1:A:31:ARG:H	1:A:32:ASN:HA	15	0.11
(1,886)	1:B:216:LEU:HA	1:B:217:SER:HB2	4	0.11
(1,885)	1:A:16:LEU:HA	1:A:17:SER:HB2	11	0.11
(1,885)	1:A:16:LEU:HA	1:A:17:SER:HB2	12	0.11
(1,868)	1:B:242:ALA:HA	1:B:245:GLN:HB3	3	0.11
(1,868)	1:B:242:ALA:HA	1:B:245:GLN:HB3	4	0.11
(1,867)	1:A:42:ALA:HA	1:A:45:GLN:HB3	5	0.11
(1,844)	1:B:236:ALA:HA	1:B:239:LEU:HB3	9	0.11
(1,835)	1:A:35:ARG:HA	1:A:38:LEU:HB3	11	0.11
(1,835)	1:A:35:ARG:HA	1:A:38:LEU:HB3	17	0.11
(1,818)	1:B:221:ILE:HA	1:B:224:LEU:HB3	14	0.11
(1,814)	1:B:220:VAL:HA	1:B:223:GLN:HB3	3	0.11
(1,814)	1:B:220:VAL:HA	1:B:223:GLN:HB3	19	0.11
(1,804)	1:B:218:ASN:HA	1:B:222:LYS:H	12	0.11
(1,758)	1:B:211:ARG:HB2	1:B:212:ILE:H	4	0.11
(1,757)	1:A:11:ARG:HB2	1:A:12:ILE:H	8	0.11
(1,75)	1:A:35:ARG:HB3	1:A:36:ALA:H	13	0.11
(1,74)	1:B:235:ARG:HB2	1:B:236:ALA:H	18	0.11
(1,736)	1:B:245:GLN:H	1:B:245:GLN:HB3	1	0.11
(1,736)	1:B:245:GLN:H	1:B:245:GLN:HB3	15	0.11
(1,736)	1:B:245:GLN:H	1:B:245:GLN:HB3	18	0.11
(1,728)	1:B:235:ARG:H	1:B:235:ARG:HB2	9	0.11
(1,727)	1:A:35:ARG:H	1:A:35:ARG:HB2	5	0.11
(1,727)	1:A:35:ARG:H	1:A:35:ARG:HB2	9	0.11
(1,727)	1:A:35:ARG:H	1:A:35:ARG:HB2	11	0.11
(1,727)	1:A:35:ARG:H	1:A:35:ARG:HB2	12	0.11
(1,727)	1:A:35:ARG:H	1:A:35:ARG:HB2	15	0.11
(1,720)	1:B:228:GLU:H	1:B:228:GLU:HB3	3	0.11
(1,698)	1:B:215:ASP:H	1:B:215:ASP:HB2	17	0.11
(1,696)	1:B:213:LEU:H	1:B:213:LEU:HB3	18	0.11
(1,652)	1:B:227:LEU:H	1:B:238:LEU:HD11	16	0.11
(1,652)	1:B:227:LEU:H	1:B:238:LEU:HD12	16	0.11
(1,652)	1:B:227:LEU:H	1:B:238:LEU:HD13	16	0.11
(1,645)	1:A:23:GLN:H	1:B:247:LEU:HD11	2	0.11
(1,645)	1:A:23:GLN:H	1:B:247:LEU:HD12	2	0.11
(1,645)	1:A:23:GLN:H	1:B:247:LEU:HD13	2	0.11
(1,632)	1:A:21:ILE:HD11	1:B:211:ARG:H	15	0.11
(1,632)	1:A:21:ILE:HD12	1:B:211:ARG:H	15	0.11
(1,632)	1:A:21:ILE:HD13	1:B:211:ARG:H	15	0.11
(1,60)	1:B:226:ASP:HB2	1:B:227:LEU:H	7	0.11
(1,59)	1:A:26:ASP:HB2	1:A:27:LEU:H	8	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,59)	1:A:26:ASP:HB2	1:A:27:LEU:H	11	0.11
(1,59)	1:A:26:ASP:HB2	1:A:27:LEU:H	14	0.11
(1,57)	1:A:25:ASP:HB2	1:A:26:ASP:H	19	0.11
(1,540)	1:B:234:PRO:HG3	1:B:237:ASP:H	4	0.11
(1,539)	1:A:34:PRO:HG3	1:A:37:ASP:H	7	0.11
(1,511)	1:A:50:GLN:HA	1:A:50:GLN:HE22	5	0.11
(1,49)	1:A:23:GLN:HB3	1:A:24:LEU:H	17	0.11
(1,49)	1:A:23:GLN:HB3	1:A:24:LEU:H	18	0.11
(1,454)	1:B:227:LEU:H	1:B:227:LEU:HG	19	0.11
(1,429)	1:A:7:ILE:H	1:A:7:ILE:HG12	3	0.11
(1,395)	1:A:14:LEU:H	1:B:213:LEU:HA	6	0.11
(1,395)	1:A:14:LEU:H	1:B:213:LEU:HA	9	0.11
(1,369)	1:A:34:PRO:HB3	1:A:36:ALA:H	1	0.11
(1,369)	1:A:34:PRO:HB3	1:A:36:ALA:H	4	0.11
(1,366)	1:B:229:VAL:HA	1:B:233:LEU:H	5	0.11
(1,365)	1:A:29:VAL:HA	1:A:33:LEU:H	7	0.11
(1,224)	1:B:207:ILE:H	1:B:208:ASP:H	14	0.11
(1,214)	1:B:250:GLN:H	1:B:250:GLN:HB3	2	0.11
(1,214)	1:B:250:GLN:H	1:B:250:GLN:HB3	5	0.11
(1,214)	1:B:250:GLN:H	1:B:250:GLN:HB3	13	0.11
(1,214)	1:B:250:GLN:H	1:B:250:GLN:HB3	16	0.11
(1,213)	1:A:50:GLN:H	1:A:50:GLN:HB3	7	0.11
(1,2094)	1:B:250:GLN:H	1:B:250:GLN:HG2	6	0.11
(1,2094)	1:B:250:GLN:H	1:B:250:GLN:HG3	6	0.11
(1,2075)	1:A:48:ILE:H	1:A:48:ILE:HG12	9	0.11
(1,2075)	1:A:48:ILE:H	1:A:48:ILE:HG13	9	0.11
(1,1796)	1:B:211:ARG:HD2	1:B:213:LEU:HD21	14	0.11
(1,1796)	1:B:211:ARG:HD2	1:B:213:LEU:HD22	14	0.11
(1,1796)	1:B:211:ARG:HD2	1:B:213:LEU:HD23	14	0.11
(1,1747)	1:A:4:LEU:H	1:A:4:LEU:HD11	5	0.11
(1,1747)	1:A:4:LEU:H	1:A:4:LEU:HD12	5	0.11
(1,1747)	1:A:4:LEU:H	1:A:4:LEU:HD13	5	0.11
(1,1747)	1:A:4:LEU:H	1:A:4:LEU:HD21	5	0.11
(1,1747)	1:A:4:LEU:H	1:A:4:LEU:HD22	5	0.11
(1,1747)	1:A:4:LEU:H	1:A:4:LEU:HD23	5	0.11
(1,1695)	1:A:9:MET:HE1	1:A:40:ARG:HD2	7	0.11
(1,1695)	1:A:9:MET:HE2	1:A:40:ARG:HD2	7	0.11
(1,1695)	1:A:9:MET:HE3	1:A:40:ARG:HD2	7	0.11
(1,157)	1:A:15:ASP:H	1:A:15:ASP:HB3	20	0.11
(1,1548)	1:A:46:TYR:HE1	1:B:233:LEU:HD11	15	0.11
(1,1548)	1:A:46:TYR:HE1	1:B:233:LEU:HD12	15	0.11
(1,1548)	1:A:46:TYR:HE1	1:B:233:LEU:HD13	15	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1548)	1:A:46:TYR:HE2	1:B:233:LEU:HD11	15	0.11
(1,1548)	1:A:46:TYR:HE2	1:B:233:LEU:HD12	15	0.11
(1,1548)	1:A:46:TYR:HE2	1:B:233:LEU:HD13	15	0.11
(1,1516)	1:A:47:LEU:HG	1:B:227:LEU:HD21	12	0.11
(1,1516)	1:A:47:LEU:HG	1:B:227:LEU:HD22	12	0.11
(1,1516)	1:A:47:LEU:HG	1:B:227:LEU:HD23	12	0.11
(1,148)	1:B:208:ASP:H	1:B:208:ASP:HB2	14	0.11
(1,143)	1:A:79:GLU:H	1:A:80:TRP:H	2	0.11
(1,143)	1:A:79:GLU:H	1:A:80:TRP:H	9	0.11
(1,14)	1:B:211:ARG:HB3	1:B:212:ILE:H	14	0.11
(1,14)	1:B:211:ARG:HB3	1:B:212:ILE:H	19	0.11
(1,126)	1:B:250:GLN:HB2	1:B:251:SER:H	6	0.11
(1,1231)	1:A:27:LEU:HA	1:A:30:GLN:HG2	19	0.11
(1,123)	1:A:50:GLN:HA	1:A:51:SER:H	11	0.11
(1,1206)	1:A:46:TYR:HB3	1:B:242:ALA:HA	2	0.11
(1,12)	1:B:210:GLY:H	1:B:211:ARG:H	15	0.11
(1,1188)	1:B:228:GLU:HG2	1:B:235:ARG:HA	18	0.11
(1,1187)	1:A:28:GLU:HG2	1:A:35:ARG:HA	2	0.11
(1,118)	1:B:249:ASN:HB2	1:B:250:GLN:H	1	0.11
(1,1125)	1:A:17:SER:HB2	1:A:20:VAL:HB	18	0.11
(1,1102)	1:B:216:LEU:HG	1:B:217:SER:H	16	0.11
(1,1101)	1:A:16:LEU:HG	1:A:17:SER:H	20	0.11
(1,11)	1:A:10:GLY:H	1:A:11:ARG:H	3	0.11
(1,1072)	1:B:245:GLN:HA	1:B:245:GLN:HG3	6	0.11
(1,1072)	1:B:245:GLN:HA	1:B:245:GLN:HG3	7	0.11
(1,1072)	1:B:245:GLN:HA	1:B:245:GLN:HG3	8	0.11
(1,1072)	1:B:245:GLN:HA	1:B:245:GLN:HG3	9	0.11
(1,1071)	1:A:45:GLN:HA	1:A:45:GLN:HG3	4	0.11
(1,1054)	1:B:240:ARG:HB3	1:B:240:ARG:HD2	7	0.11
(1,1054)	1:B:240:ARG:HB3	1:B:240:ARG:HD2	8	0.11
(1,1053)	1:A:40:ARG:HB3	1:A:40:ARG:HD2	6	0.11
(1,1053)	1:A:40:ARG:HB3	1:A:40:ARG:HD2	9	0.11
(1,105)	1:A:46:TYR:HB2	1:A:47:LEU:H	11	0.11
(1,1030)	1:B:230:GLN:HA	1:B:230:GLN:HG3	7	0.11
(1,1030)	1:B:230:GLN:HA	1:B:230:GLN:HG3	15	0.11
(1,1030)	1:B:230:GLN:HA	1:B:230:GLN:HG3	17	0.11
(1,103)	1:A:45:GLN:HB3	1:A:46:TYR:H	8	0.11
(1,103)	1:A:45:GLN:HB3	1:A:46:TYR:H	12	0.11
(1,1029)	1:A:30:GLN:HA	1:A:30:GLN:HG3	11	0.11
(1,1029)	1:A:30:GLN:HA	1:A:30:GLN:HG3	14	0.11

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

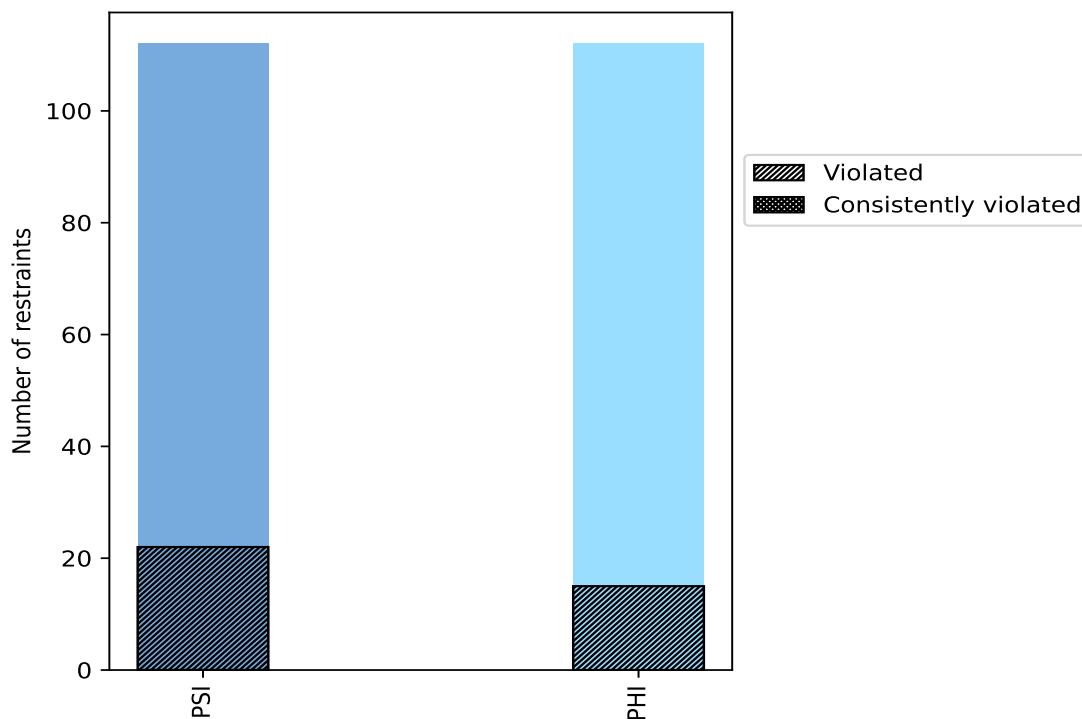
### 10.1 Summary of dihedral-angle violations [i](#)

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	% <sup>1</sup>	Violated <sup>3</sup>			Consistently Violated <sup>4</sup>		
			Count	% <sup>2</sup>	% <sup>1</sup>	Count	% <sup>2</sup>	% <sup>1</sup>
PSI	112	50.0	22	19.6	9.8	0	0.0	0.0
PHI	112	50.0	15	13.4	6.7	0	0.0	0.0
Total	224	100.0	37	16.5	16.5	0	0.0	0.0

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

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



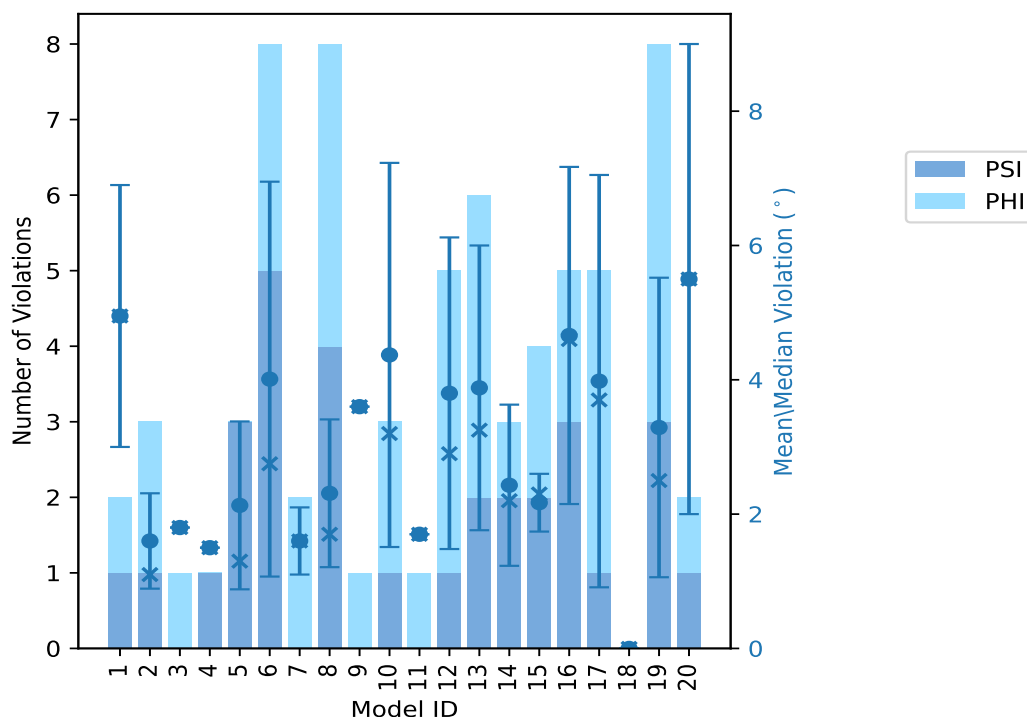
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

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

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

Model ID	Number of violations			Mean (°)	Max (°)	SD (°)	Median (°)
	PSI	PHI	Total				
1	1	1	2	4.95	6.9	1.95	4.95
2	1	2	3	1.6	2.6	0.71	1.1
3	0	1	1	1.8	1.8	0.0	1.8
4	1	0	1	1.5	1.5	0.0	1.5
5	3	0	3	2.13	3.9	1.25	1.3
6	5	3	8	4.01	9.5	2.94	2.75
7	0	2	2	1.6	2.1	0.5	1.6
8	4	4	8	2.31	4.2	1.1	1.7
9	0	1	1	3.6	3.6	0.0	3.6
10	1	2	3	4.37	8.3	2.86	3.2
11	0	1	1	1.7	1.7	0.0	1.7
12	1	4	5	3.8	7.7	2.32	2.9
13	2	4	6	3.88	8.3	2.12	3.25
14	2	1	3	2.43	4.0	1.2	2.2
15	2	2	4	2.17	2.6	0.43	2.3
16	3	2	5	4.66	8.8	2.51	4.6
17	1	4	5	3.98	9.7	3.07	3.7
18	0	0	0	0.0	0.0	0.0	0.0
19	3	5	8	3.29	7.4	2.23	2.5
20	1	1	2	5.5	9.0	3.5	5.5

### 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.

Number of violated restraints			Fraction of the ensemble	
PSI	PHI	Total	Count <sup>1</sup>	%
17	6	23	1	5.0
2	4	6	2	10.0
2	2	4	3	15.0
1	0	1	4	20.0
0	1	1	5	25.0
0	0	0	6	30.0
0	1	1	7	35.0
0	1	1	8	40.0
0	0	0	9	45.0
0	0	0	10	50.0
0	0	0	11	55.0

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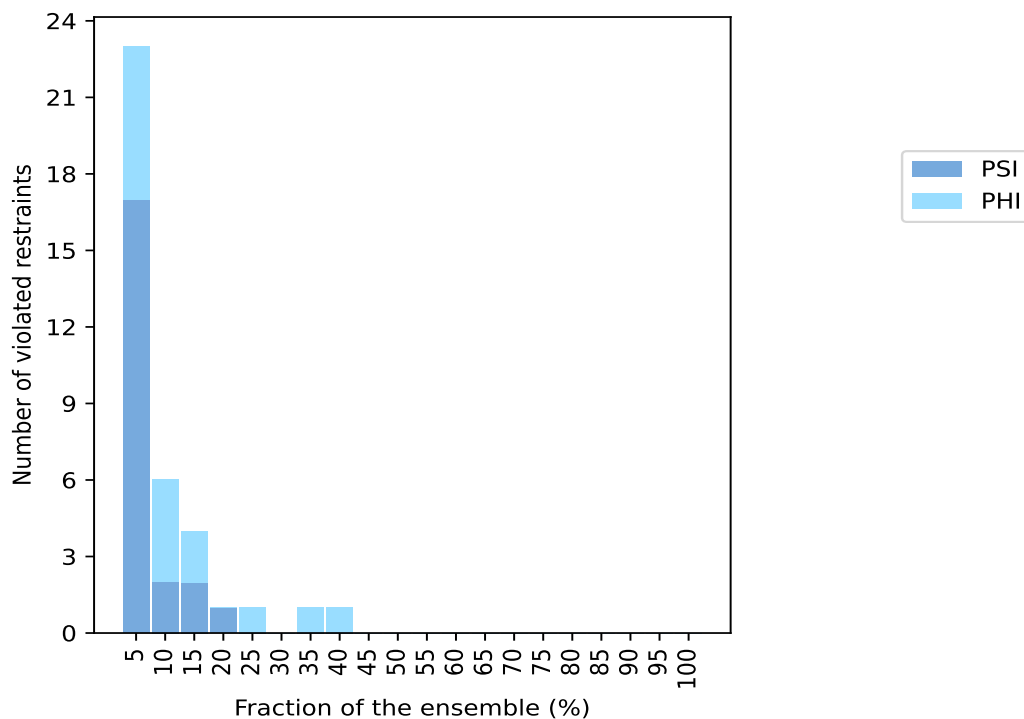


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Number of violated restraints			Fraction of the ensemble	
PSI	PHI	Total	Count <sup>1</sup>	%
0	0	0	12	60.0
0	0	0	13	65.0
0	0	0	14	70.0
0	0	0	15	75.0
0	0	0	16	80.0
0	0	0	17	85.0
0	0	0	18	90.0
0	0	0	19	95.0
0	0	0	20	100.0

<sup>1</sup> Number of models with violations

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

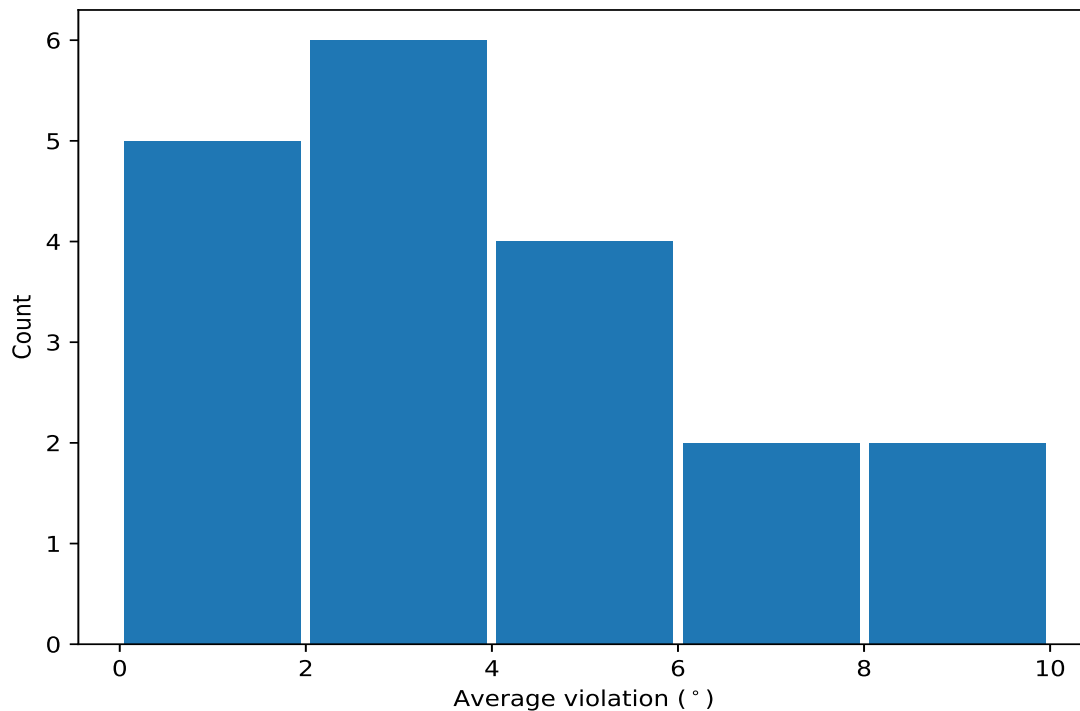


## 10.4 Most violated dihedral-angle restraints in the ensemble [i](#)

### 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.

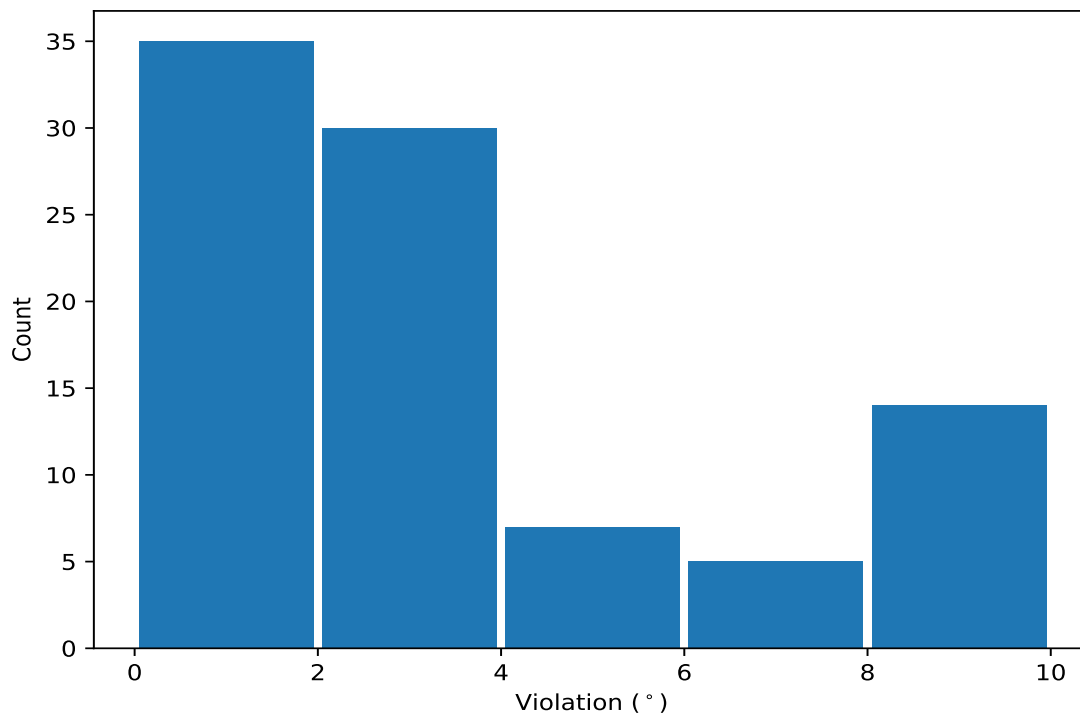
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models <sup>1</sup>	Mean	SD <sup>2</sup>	Median
(1,66)	1:B:235:ARG:C	1:B:236:ALA:N	1:B:236:ALA:CA	1:B:236:ALA:C	8	2.66	0.91	3.0
(1,65)	1:A:35:ARG:C	1:A:36:ALA:N	1:A:36:ALA:CA	1:A:36:ALA:C	7	2.7	0.81	3.0
(1,190)	1:B:250:GLN:C	1:B:251:SER:N	1:B:251:SER:CA	1:B:251:SER:C	5	3.5	3.12	1.7
(1,190)	1:B:250:GLN:C	1:B:251:SER:N	1:B:251:SER:CA	1:B:251:SER:C	5	3.5	3.12	1.7
(1,219)	1:A:58:VAL:N	1:A:58:VAL:CA	1:A:58:VAL:C	1:A:59:PRO:N	4	5.18	3.86	4.85
(1,219)	1:A:58:VAL:N	1:A:58:VAL:CA	1:A:58:VAL:C	1:A:59:PRO:N	4	5.18	3.86	4.85
(1,189)	1:A:50:GLN:C	1:A:51:SER:N	1:A:51:SER:CA	1:A:51:SER:C	3	6.43	3.0	8.3
(1,189)	1:A:50:GLN:C	1:A:51:SER:N	1:A:51:SER:CA	1:A:51:SER:C	3	6.43	3.0	8.3
(1,170)	1:B:231:ARG:N	1:B:231:ARG:CA	1:B:231:ARG:C	1:B:232:ASN:N	3	5.03	1.89	3.9
(1,119)	1:A:49:ASN:N	1:A:49:ASN:CA	1:A:49:ASN:C	1:A:50:GLN:N	3	2.67	1.23	2.6
(1,163)	1:A:17:SER:C	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:C	3	1.97	0.62	1.8
(1,163)	1:A:17:SER:C	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:C	3	1.97	0.62	1.8
(1,220)	1:B:258:VAL:N	1:B:258:VAL:CA	1:B:258:VAL:C	1:B:259:PRO:N	2	8.2	0.8	8.2
(1,220)	1:B:258:VAL:N	1:B:258:VAL:CA	1:B:258:VAL:C	1:B:259:PRO:N	2	8.2	0.8	8.2
(1,49)	1:A:26:ASP:C	1:A:27:LEU:N	1:A:27:LEU:CA	1:A:27:LEU:C	2	4.55	2.05	4.55
(1,62)	1:B:229:VAL:C	1:B:230:GLN:N	1:B:230:GLN:CA	1:B:230:GLN:C	2	3.8	1.3	3.8
(1,137)	1:A:7:ILE:N	1:A:7:ILE:CA	1:A:7:ILE:C	1:A:8:ASP:N	2	1.95	0.65	1.95
(1,25)	1:A:20:VAL:C	1:A:21:ILE:N	1:A:21:ILE:CA	1:A:21:ILE:C	2	1.65	0.35	1.65
(1,185)	1:A:49:ASN:C	1:A:50:GLN:N	1:A:50:GLN:CA	1:A:50:GLN:C	2	1.55	0.05	1.55

<sup>1</sup> Number of violated models, <sup>2</sup>Standard 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 (°)
(1,219)	1:A:58:VAL:N	1:A:58:VAL:CA	1:A:58:VAL:C	1:A:59:PRO:N	17	9.7
(1,219)	1:A:58:VAL:N	1:A:58:VAL:CA	1:A:58:VAL:C	1:A:59:PRO:N	17	9.7
(1,190)	1:B:250:GLN:C	1:B:251:SER:N	1:B:251:SER:CA	1:B:251:SER:C	6	9.5
(1,190)	1:B:250:GLN:C	1:B:251:SER:N	1:B:251:SER:CA	1:B:251:SER:C	6	9.5
(1,220)	1:B:258:VAL:N	1:B:258:VAL:CA	1:B:258:VAL:C	1:B:259:PRO:N	20	9.0
(1,220)	1:B:258:VAL:N	1:B:258:VAL:CA	1:B:258:VAL:C	1:B:259:PRO:N	20	9.0
(1,189)	1:A:50:GLN:C	1:A:51:SER:N	1:A:51:SER:CA	1:A:51:SER:C	16	8.8
(1,189)	1:A:50:GLN:C	1:A:51:SER:N	1:A:51:SER:CA	1:A:51:SER:C	16	8.8
(1,194)	1:B:251:SER:C	1:B:252:GLN:N	1:B:252:GLN:CA	1:B:252:GLN:C	6	8.4
(1,194)	1:B:251:SER:C	1:B:252:GLN:N	1:B:252:GLN:CA	1:B:252:GLN:C	6	8.4
(1,219)	1:A:58:VAL:N	1:A:58:VAL:CA	1:A:58:VAL:C	1:A:59:PRO:N	10	8.3

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,219)	1:A:58:VAL:N	1:A:58:VAL:CA	1:A:58:VAL:C	1:A:59:PRO:N	10	8.3
(1,189)	1:A:50:GLN:C	1:A:51:SER:N	1:A:51:SER:CA	1:A:51:SER:C	13	8.3
(1,189)	1:A:50:GLN:C	1:A:51:SER:N	1:A:51:SER:CA	1:A:51:SER:C	13	8.3
(1,170)	1:B:231:ARG:N	1:B:231:ARG:CA	1:B:231:ARG:C	1:B:232:ASN:N	12	7.7
(1,220)	1:B:258:VAL:N	1:B:258:VAL:CA	1:B:258:VAL:C	1:B:259:PRO:N	19	7.4
(1,220)	1:B:258:VAL:N	1:B:258:VAL:CA	1:B:258:VAL:C	1:B:259:PRO:N	19	7.4
(1,18)	1:B:218:ASN:C	1:B:219:GLU:N	1:B:219:GLU:CA	1:B:219:GLU:C	1	6.9
(1,49)	1:A:26:ASP:C	1:A:27:LEU:N	1:A:27:LEU:CA	1:A:27:LEU:C	19	6.6
(1,193)	1:A:51:SER:C	1:A:52:GLN:N	1:A:52:GLN:CA	1:A:52:GLN:C	16	5.5
(1,193)	1:A:51:SER:C	1:A:52:GLN:N	1:A:52:GLN:CA	1:A:52:GLN:C	16	5.5
(1,62)	1:B:229:VAL:C	1:B:230:GLN:N	1:B:230:GLN:CA	1:B:230:GLN:C	12	5.1
(1,187)	1:A:50:GLN:N	1:A:50:GLN:CA	1:A:50:GLN:C	1:A:51:SER:N	16	4.6
(1,16)	1:B:215:ASP:N	1:B:215:ASP:CA	1:B:215:ASP:C	1:B:216:LEU:N	8	4.2
(1,119)	1:A:49:ASN:N	1:A:49:ASN:CA	1:A:49:ASN:C	1:A:50:GLN:N	13	4.2
(1,120)	1:B:249:ASN:N	1:B:249:ASN:CA	1:B:249:ASN:C	1:B:250:GLN:N	14	4.0
(1,65)	1:A:35:ARG:C	1:A:36:ALA:N	1:A:36:ALA:CA	1:A:36:ALA:C	17	3.9
(1,170)	1:B:231:ARG:N	1:B:231:ARG:CA	1:B:231:ARG:C	1:B:232:ASN:N	5	3.9
(1,66)	1:B:235:ARG:C	1:B:236:ALA:N	1:B:236:ALA:CA	1:B:236:ALA:C	8	3.7
(1,66)	1:B:235:ARG:C	1:B:236:ALA:N	1:B:236:ALA:CA	1:B:236:ALA:C	17	3.7
(1,190)	1:B:250:GLN:C	1:B:251:SER:N	1:B:251:SER:CA	1:B:251:SER:C	9	3.6
(1,190)	1:B:250:GLN:C	1:B:251:SER:N	1:B:251:SER:CA	1:B:251:SER:C	9	3.6
(1,170)	1:B:231:ARG:N	1:B:231:ARG:CA	1:B:231:ARG:C	1:B:232:ASN:N	6	3.5
(1,65)	1:A:35:ARG:C	1:A:36:ALA:N	1:A:36:ALA:CA	1:A:36:ALA:C	13	3.4
(1,66)	1:B:235:ARG:C	1:B:236:ALA:N	1:B:236:ALA:CA	1:B:236:ALA:C	10	3.2
(1,66)	1:B:235:ARG:C	1:B:236:ALA:N	1:B:236:ALA:CA	1:B:236:ALA:C	13	3.1
(1,65)	1:A:35:ARG:C	1:A:36:ALA:N	1:A:36:ALA:CA	1:A:36:ALA:C	8	3.1
(1,191)	1:A:51:SER:N	1:A:51:SER:CA	1:A:51:SER:C	1:A:52:GLN:N	16	3.1
(1,65)	1:A:35:ARG:C	1:A:36:ALA:N	1:A:36:ALA:CA	1:A:36:ALA:C	19	3.0
(1,20)	1:B:219:GLU:N	1:B:219:GLU:CA	1:B:219:GLU:C	1:B:220:VAL:N	1	3.0
(1,66)	1:B:235:ARG:C	1:B:236:ALA:N	1:B:236:ALA:CA	1:B:236:ALA:C	12	2.9
(1,192)	1:B:251:SER:N	1:B:251:SER:CA	1:B:251:SER:C	1:B:252:GLN:N	6	2.9
(1,163)	1:A:17:SER:C	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:C	19	2.8
(1,163)	1:A:17:SER:C	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:C	19	2.8
(1,157)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:C	1:A:17:SER:N	13	2.7
(1,188)	1:B:250:GLN:N	1:B:250:GLN:CA	1:B:250:GLN:C	1:B:251:SER:N	6	2.6
(1,137)	1:A:7:ILE:N	1:A:7:ILE:CA	1:A:7:ILE:C	1:A:8:ASP:N	15	2.6
(1,119)	1:A:49:ASN:N	1:A:49:ASN:CA	1:A:49:ASN:C	1:A:50:GLN:N	2	2.6
(1,62)	1:B:229:VAL:C	1:B:230:GLN:N	1:B:230:GLN:CA	1:B:230:GLN:C	6	2.5
(1,49)	1:A:26:ASP:C	1:A:27:LEU:N	1:A:27:LEU:CA	1:A:27:LEU:C	15	2.5
(1,189)	1:A:50:GLN:C	1:A:51:SER:N	1:A:51:SER:CA	1:A:51:SER:C	19	2.2
(1,189)	1:A:50:GLN:C	1:A:51:SER:N	1:A:51:SER:CA	1:A:51:SER:C	19	2.2
(1,117)	1:A:48:ILE:C	1:A:49:ASN:N	1:A:49:ASN:CA	1:A:49:ASN:C	14	2.2
(1,65)	1:A:35:ARG:C	1:A:36:ALA:N	1:A:36:ALA:CA	1:A:36:ALA:C	7	2.1
(1,50)	1:B:226:ASP:C	1:B:227:LEU:N	1:B:227:LEU:CA	1:B:227:LEU:C	15	2.1
(1,25)	1:A:20:VAL:C	1:A:21:ILE:N	1:A:21:ILE:CA	1:A:21:ILE:C	20	2.0
(1,66)	1:B:235:ARG:C	1:B:236:ALA:N	1:B:236:ALA:CA	1:B:236:ALA:C	3	1.8
(1,66)	1:B:235:ARG:C	1:B:236:ALA:N	1:B:236:ALA:CA	1:B:236:ALA:C	19	1.8
(1,65)	1:A:35:ARG:C	1:A:36:ALA:N	1:A:36:ALA:CA	1:A:36:ALA:C	12	1.8
(1,163)	1:A:17:SER:C	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:C	8	1.8
(1,163)	1:A:17:SER:C	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:C	8	1.8
(1,190)	1:B:250:GLN:C	1:B:251:SER:N	1:B:251:SER:CA	1:B:251:SER:C	11	1.7

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,190)	1:B:250:GLN:C	1:B:251:SER:N	1:B:251:SER:CA	1:B:251:SER:C	11	1.7
(1,65)	1:A:35:ARG:C	1:A:36:ALA:N	1:A:36:ALA:CA	1:A:36:ALA:C	10	1.6
(1,190)	1:B:250:GLN:C	1:B:251:SER:N	1:B:251:SER:CA	1:B:251:SER:C	8	1.6
(1,190)	1:B:250:GLN:C	1:B:251:SER:N	1:B:251:SER:CA	1:B:251:SER:C	8	1.6
(1,185)	1:A:49:ASN:C	1:A:50:GLN:N	1:A:50:GLN:CA	1:A:50:GLN:C	13	1.6
(1,52)	1:B:227:LEU:N	1:B:227:LEU:CA	1:B:227:LEU:C	1:B:228:GLU:N	4	1.5
(1,23)	1:A:20:VAL:N	1:A:20:VAL:CA	1:A:20:VAL:C	1:A:21:ILE:N	8	1.5
(1,208)	1:B:255:ARG:N	1:B:255:ARG:CA	1:B:255:ARG:C	1:B:256:THR:N	8	1.5
(1,204)	1:B:254:ALA:N	1:B:254:ALA:CA	1:B:254:ALA:C	1:B:255:ARG:N	15	1.5
(1,185)	1:A:49:ASN:C	1:A:50:GLN:N	1:A:50:GLN:CA	1:A:50:GLN:C	12	1.5
(1,219)	1:A:58:VAL:N	1:A:58:VAL:CA	1:A:58:VAL:C	1:A:59:PRO:N	6	1.4
(1,219)	1:A:58:VAL:N	1:A:58:VAL:CA	1:A:58:VAL:C	1:A:59:PRO:N	6	1.4
(1,51)	1:A:27:LEU:N	1:A:27:LEU:CA	1:A:27:LEU:C	1:A:28:GLU:N	19	1.3
(1,25)	1:A:20:VAL:C	1:A:21:ILE:N	1:A:21:ILE:CA	1:A:21:ILE:C	17	1.3
(1,219)	1:A:58:VAL:N	1:A:58:VAL:CA	1:A:58:VAL:C	1:A:59:PRO:N	16	1.3
(1,219)	1:A:58:VAL:N	1:A:58:VAL:CA	1:A:58:VAL:C	1:A:59:PRO:N	16	1.3
(1,207)	1:A:55:ARG:N	1:A:55:ARG:CA	1:A:55:ARG:C	1:A:56:THR:N	6	1.3
(1,163)	1:A:17:SER:C	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:C	17	1.3
(1,163)	1:A:17:SER:C	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:C	17	1.3
(1,137)	1:A:7:ILE:N	1:A:7:ILE:CA	1:A:7:ILE:C	1:A:8:ASP:N	5	1.3
(1,199)	1:A:53:THR:N	1:A:53:THR:CA	1:A:53:THR:C	1:A:54:ALA:N	19	1.2
(1,119)	1:A:49:ASN:N	1:A:49:ASN:CA	1:A:49:ASN:C	1:A:50:GLN:N	5	1.2
(1,66)	1:B:235:ARG:C	1:B:236:ALA:N	1:B:236:ALA:CA	1:B:236:ALA:C	7	1.1
(1,28)	1:B:221:ILE:N	1:B:221:ILE:CA	1:B:221:ILE:C	1:B:222:LYS:N	14	1.1
(1,190)	1:B:250:GLN:C	1:B:251:SER:N	1:B:251:SER:CA	1:B:251:SER:C	2	1.1
(1,190)	1:B:250:GLN:C	1:B:251:SER:N	1:B:251:SER:CA	1:B:251:SER:C	2	1.1
(1,17)	1:A:18:ASN:C	1:A:19:GLU:N	1:A:19:GLU:CA	1:A:19:GLU:C	2	1.1
(1,149)	1:A:10:GLY:N	1:A:10:GLY:CA	1:A:10:GLY:C	1:A:11:ARG:N	8	1.1
(1,149)	1:A:10:GLY:N	1:A:10:GLY:CA	1:A:10:GLY:C	1:A:11:ARG:N	8	1.1