Full wwPDB NMR Structure Validation Report (i)

Jun 5, 2023 – 04:04 PM JST

PDB ID	:	5XO9
BMRB ID	:	36091
Title	:	Thanatin in presence of LPS
Authors	:	Sinha, S.; Bhattacharjya, S.
Deposited on	:	2017-05-27

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/NMRValidationReportHelp
with specific help available everywhere you see the (i) symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

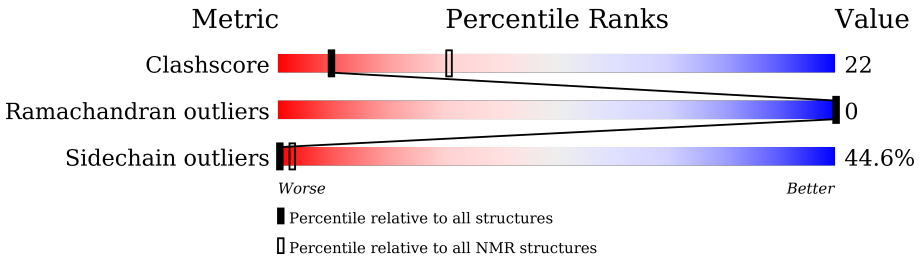
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
wwPDB-RCI	:	v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV	:	Wang et al. (2010)
wwPDB-ShiftChecker	:	v1.2
BMRB Restraints Analysis	:	v1.2
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.33

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
SOLUTION NMR

The overall completeness of chemical shifts assignment is 13%.

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 >=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 <=5%

Mol	Chain	Length	Quality of chain
1	A	21	24% 24% 19% 33%
1	B	21	33% 19% 19% 29%

2 Ensemble composition and analysis (i)

This entry contains 20 models. Model 10 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:8-A:21, B:39-B:53 (29)	0.48	10

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. No single-model clusters were found.

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

3 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 696 atoms, of which 362 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Thanatin.

Mol	Chain	Residues	Atoms						Trace
1	A	21	Total	C	H	N	O	S	0
			348	103	181	35	26	3	
1	B	21	Total	C	H	N	O	S	0
			348	103	181	35	26	3	

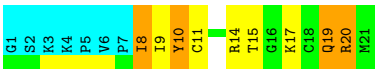
4 Residue-property plots

4.1 Average score per residue in the NMR ensemble

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

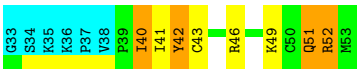
• Molecule 1: Thanatin

Chain A: 



• Molecule 1: Thanatin

Chain B: 

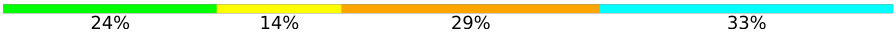


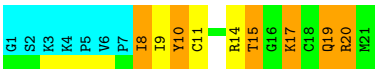
4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

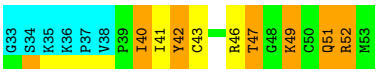
• Molecule 1: Thanatin

Chain A: 



• Molecule 1: Thanatin

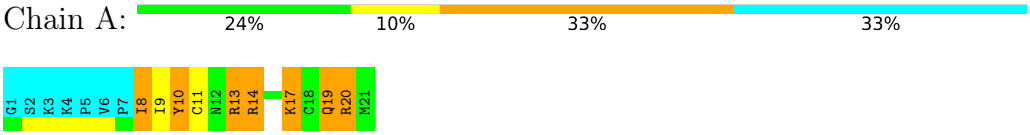
Chain B: 



4.2.2 Score per residue for model 2

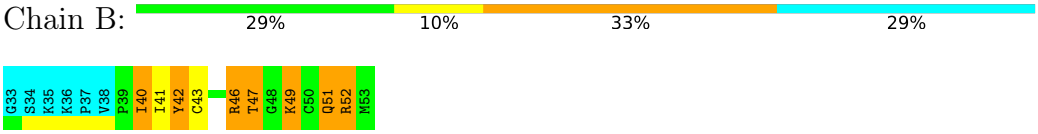
• Molecule 1: Thanatin

Chain A:



• Molecule 1: Thanatin

Chain B:



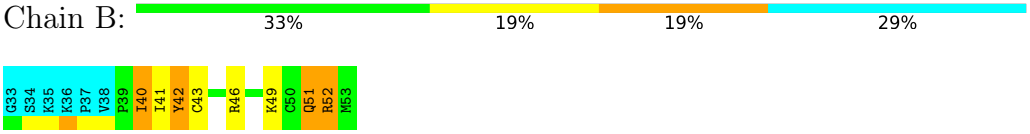
4.2.3 Score per residue for model 3

• Molecule 1: Thanatin

Chain A:

• Molecule 1: Thanatin

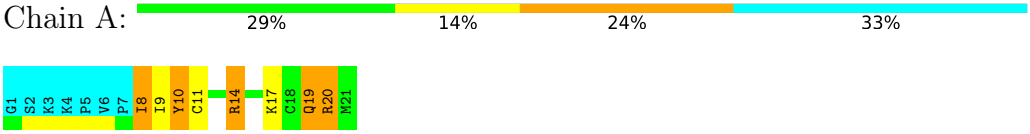
Chain B:



4.2.4 Score per residue for model 4

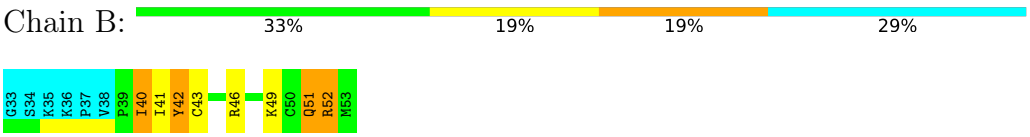
• Molecule 1: Thanatin

Chain A:



• Molecule 1: Thanatin

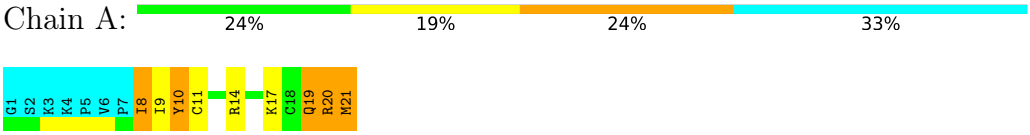
Chain B:



4.2.5 Score per residue for model 5

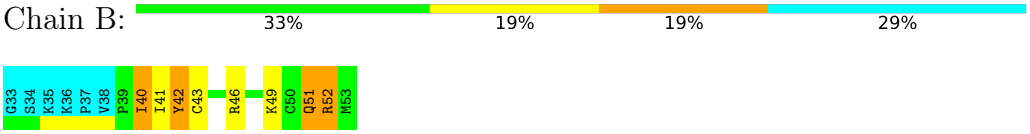
• Molecule 1: Thanatin

Chain A:



• Molecule 1: Thanatin

Chain B:



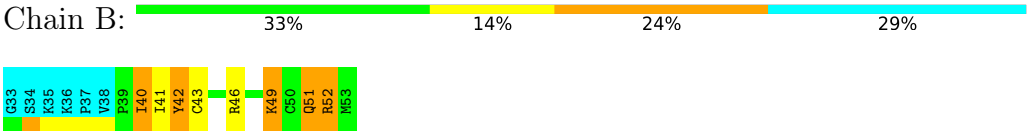
4.2.6 Score per residue for model 6

• Molecule 1: Thanatin

Chain A:

• Molecule 1: Thanatin

Chain B:



4.2.7 Score per residue for model 7

• Molecule 1: Thanatin

Chain A:

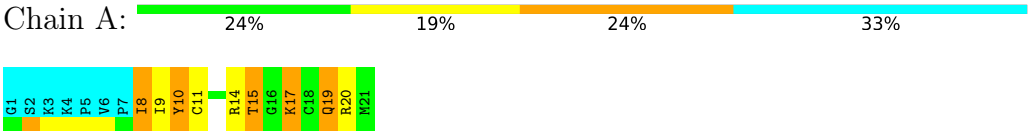
• Molecule 1: Thanatin

Chain B:

4.2.8 Score per residue for model 8

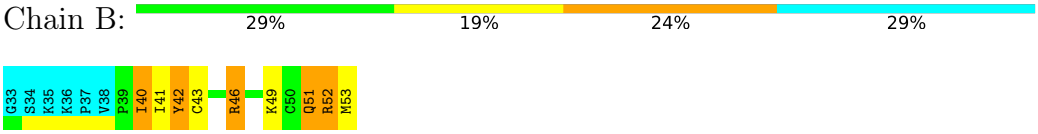
• Molecule 1: Thanatin

Chain A:



• Molecule 1: Thanatin

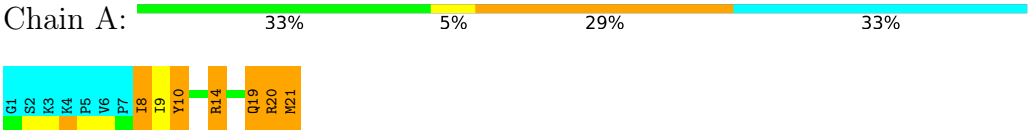
Chain B:



4.2.9 Score per residue for model 9

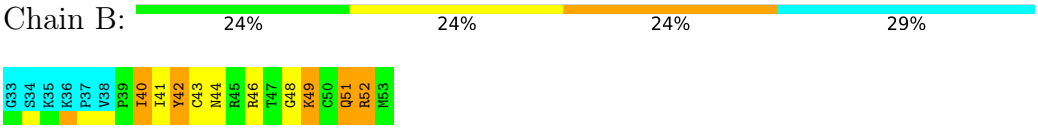
• Molecule 1: Thanatin

Chain A:



• Molecule 1: Thanatin

Chain B:



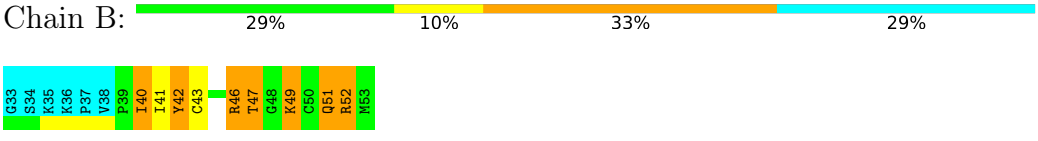
4.2.10 Score per residue for model 10 (medoid)

• Molecule 1: Thanatin

Chain A:

• Molecule 1: Thanatin

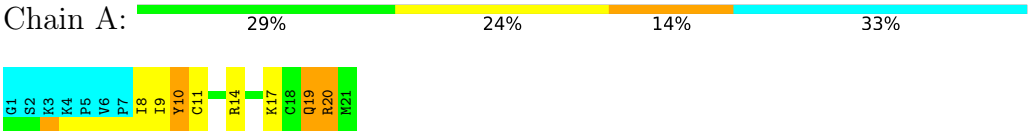
Chain B:



4.2.11 Score per residue for model 11

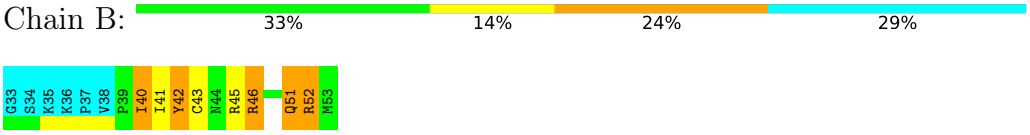
• Molecule 1: Thanatin

Chain A:



• Molecule 1: Thanatin

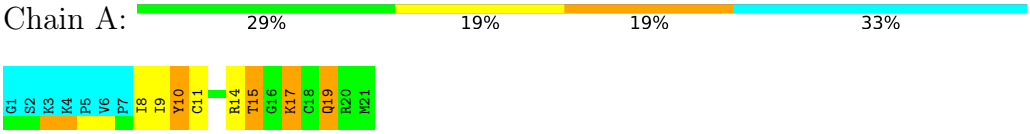
Chain B:



4.2.12 Score per residue for model 12

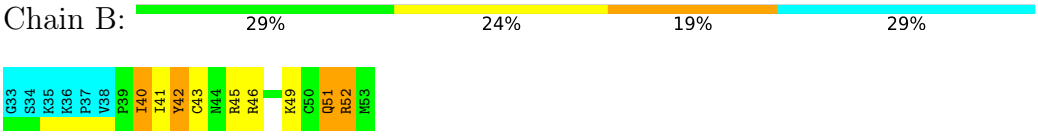
• Molecule 1: Thanatin

Chain A:



• Molecule 1: Thanatin

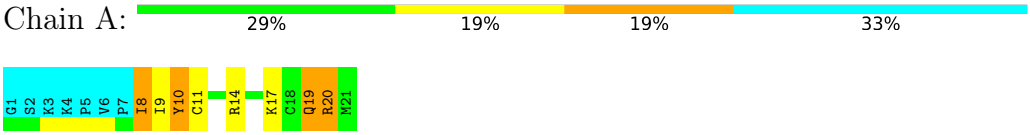
Chain B:



4.2.13 Score per residue for model 13

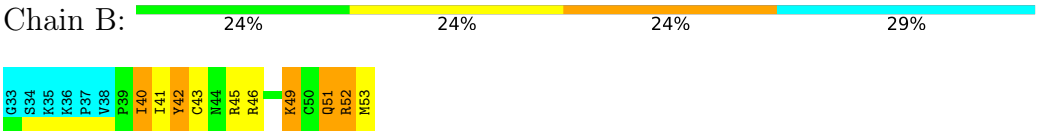
• Molecule 1: Thanatin

Chain A:



• Molecule 1: Thanatin

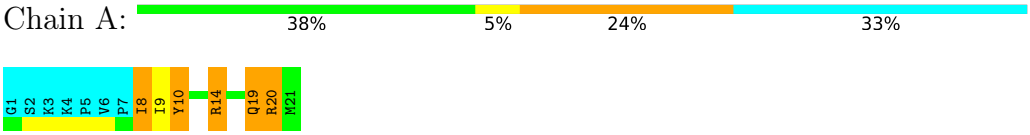
Chain B:



4.2.14 Score per residue for model 14

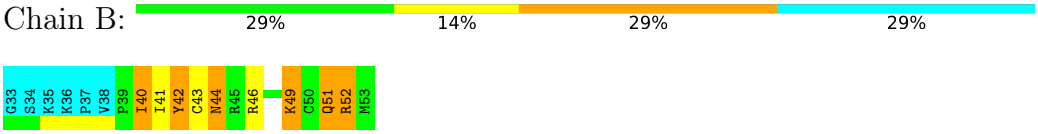
• Molecule 1: Thanatin

Chain A:



• Molecule 1: Thanatin

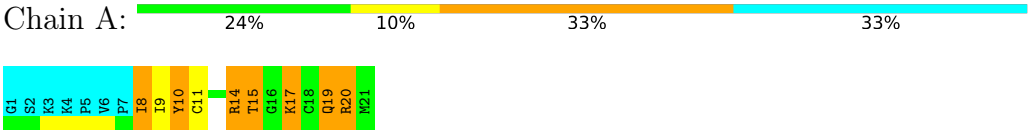
Chain B:



4.2.15 Score per residue for model 15

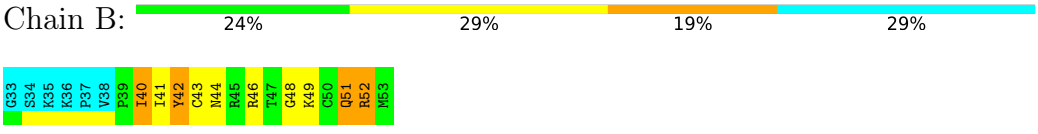
• Molecule 1: Thanatin

Chain A:



• Molecule 1: Thanatin

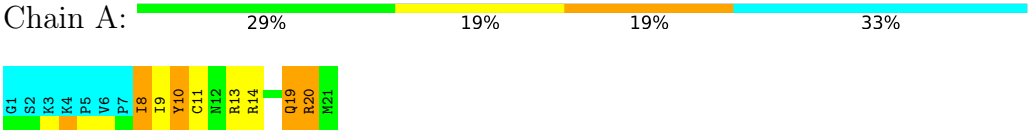
Chain B:



4.2.16 Score per residue for model 16

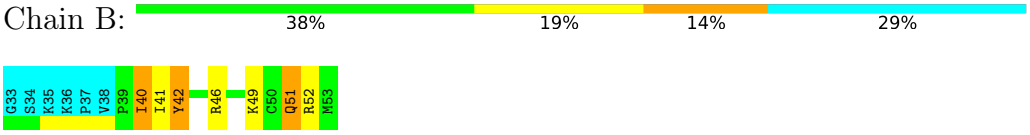
• Molecule 1: Thanatin

Chain A:



• Molecule 1: Thanatin

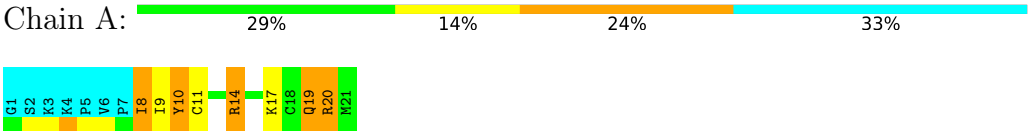
Chain B:



4.2.17 Score per residue for model 17

• Molecule 1: Thanatin

Chain A:



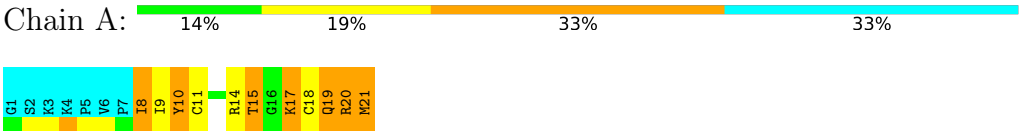
• Molecule 1: Thanatin

Chain B:

4.2.18 Score per residue for model 18

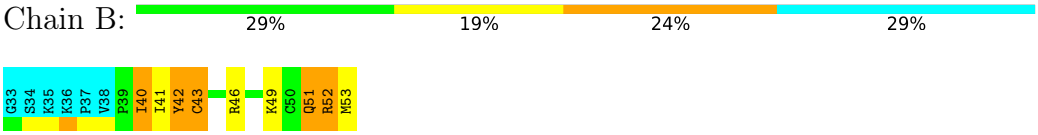
• Molecule 1: Thanatin

Chain A:



• Molecule 1: Thanatin

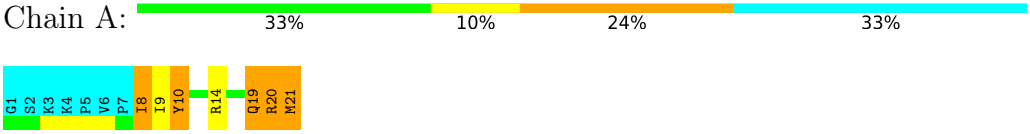
Chain B:



4.2.19 Score per residue for model 19

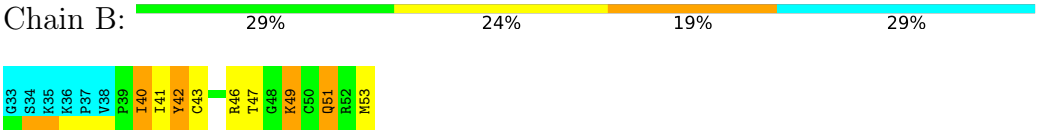
• Molecule 1: Thanatin

Chain A:



• Molecule 1: Thanatin

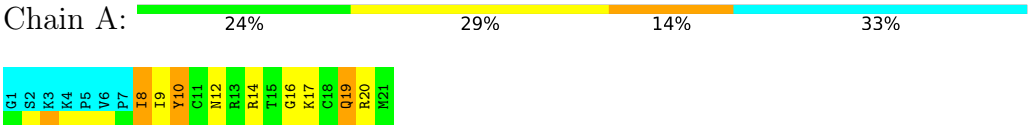
Chain B:



4.2.20 Score per residue for model 20

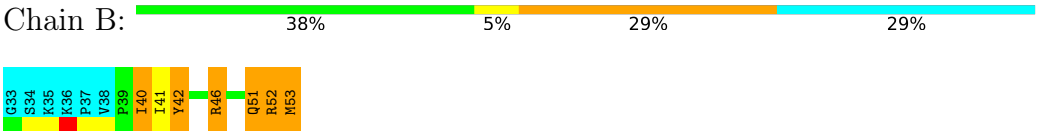
• Molecule 1: Thanatin

Chain A:



• Molecule 1: Thanatin

Chain B:



5 Refinement protocol and experimental data overview

The models were refined using the following method: *na*.

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
CYANA	structure calculation	

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	76
Number of shifts mapped to atoms	76
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	13%

6 Model quality

6.1 Standard geometry

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

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	118	124	124	6±2
1	B	125	131	131	5±1
All	All	4860	5100	5100	222

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 22.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:9:ILE:HG23	1:A:20:ARG:NE	0.70	2.01	11	17
1:B:42:TYR:N	1:B:42:TYR:CD1	0.68	2.61	11	11
1:A:10:TYR:CD1	1:A:10:TYR:N	0.68	2.62	1	11
1:A:10:TYR:N	1:A:10:TYR:CD2	0.67	2.61	4	9
1:B:42:TYR:CD1	1:B:42:TYR:N	0.67	2.62	4	5
1:B:41:ILE:HG23	1:B:52:ARG:NE	0.67	2.04	7	15
1:B:41:ILE:HG23	1:B:52:ARG:NH1	0.66	2.04	17	1
1:B:42:TYR:CD2	1:B:42:TYR:N	0.66	2.62	8	4
1:B:47:THR:HG23	1:B:49:LYS:HG3	0.63	1.69	7	4
1:B:46:ARG:N	1:B:46:ARG:HE	0.62	1.91	19	1
1:A:15:THR:HG23	1:A:17:LYS:HG3	0.61	1.71	18	7
1:B:41:ILE:HG22	1:B:51:GLN:O	0.56	2.01	17	20
1:A:11:CYS:HA	1:A:17:LYS:O	0.55	2.02	8	15

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:8:ILE:HG21	1:B:43:CYS:O	0.54	2.02	14	5
1:B:43:CYS:HA	1:B:49:LYS:O	0.54	2.03	1	16
1:A:14:ARG:NE	1:A:14:ARG:H	0.54	2.01	9	3
1:A:9:ILE:HG23	1:A:20:ARG:CD	0.53	2.34	9	3
1:B:46:ARG:NE	1:B:46:ARG:H	0.52	2.02	7	3
1:A:8:ILE:HD12	1:A:21:MET:HG3	0.52	1.80	5	1
1:A:9:ILE:HG22	1:A:19:GLN:O	0.51	2.06	9	20
1:B:52:ARG:CZ	1:B:52:ARG:HB3	0.51	2.35	6	1
1:A:11:CYS:O	1:B:40:ILE:HG21	0.50	2.06	8	6
1:B:52:ARG:HB3	1:B:52:ARG:CZ	0.50	2.35	15	1
1:A:14:ARG:H	1:A:14:ARG:NE	0.50	2.05	4	3
1:A:8:ILE:O	1:A:20:ARG:HD3	0.49	2.07	20	1
1:A:20:ARG:HB3	1:A:20:ARG:CZ	0.48	2.38	8	1
1:A:9:ILE:HG22	1:A:19:GLN:C	0.47	2.29	11	4
1:A:12:ASN:O	1:A:16:GLY:N	0.47	2.47	7	3
1:A:9:ILE:HG22	1:A:20:ARG:HA	0.46	1.85	5	3
1:B:44:ASN:O	1:B:48:GLY:N	0.45	2.49	17	3
1:A:18:CYS:C	1:A:19:GLN:HG3	0.45	2.32	18	1
1:A:10:TYR:CD2	1:A:19:GLN:O	0.45	2.70	11	2
1:A:8:ILE:N	1:A:8:ILE:HD13	0.45	2.26	19	1
1:A:15:THR:HG21	1:A:17:LYS:HZ2	0.43	1.74	18	1
1:B:44:ASN:ND2	1:B:44:ASN:H	0.43	2.11	14	1
1:B:41:ILE:HG22	1:B:52:ARG:HA	0.43	1.90	1	1
1:A:9:ILE:HG23	1:A:20:ARG:HD2	0.42	1.91	8	1
1:A:9:ILE:HG23	1:A:20:ARG:CZ	0.42	2.44	14	1
1:B:46:ARG:H	1:B:46:ARG:NE	0.42	2.13	10	2
1:A:9:ILE:HA	1:A:19:GLN:O	0.42	2.15	11	2
1:B:40:ILE:O	1:B:53:MET:N	0.42	2.53	17	2
1:A:8:ILE:HD12	1:A:21:MET:CG	0.42	2.44	5	1
1:A:8:ILE:HD13	1:B:43:CYS:O	0.42	2.14	5	1
1:A:13:ARG:HD3	1:A:14:ARG:N	0.42	2.29	2	1
1:B:46:ARG:NE	1:B:46:ARG:CA	0.41	2.84	19	1
1:A:8:ILE:HD12	1:B:46:ARG:NH2	0.41	2.31	11	1
1:B:41:ILE:HG22	1:B:51:GLN:C	0.41	2.35	17	1
1:A:8:ILE:O	1:A:20:ARG:HG3	0.40	2.16	14	1
1:A:15:THR:HG23	1:A:17:LYS:CG	0.40	2.45	18	1
1:B:47:THR:O	1:B:47:THR:OG1	0.40	2.38	10	1
1:A:9:ILE:C	1:A:9:ILE:HD12	0.40	2.37	5	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	13/21 (62%)	12±1 (88±5%)	2±1 (12±5%)	0±0 (0±0%)	100	100
1	B	14/21 (67%)	12±1 (83±4%)	2±1 (17±4%)	0±0 (0±0%)	100	100
All	All	540/840 (64%)	462 (86%)	78 (14%)	0 (0%)	100	100

There are no Ramachandran outliers.

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	13/19 (68%)	7±1 (54±8%)	6±1 (46±8%)	0	2
1	B	14/19 (74%)	8±1 (57±6%)	6±1 (43±6%)	0	3
All	All	540/760 (71%)	299 (55%)	241 (45%)	0	2

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	A	10	TYR	20
1	A	14	ARG	20
1	A	19	GLN	20
1	B	40	ILE	20
1	B	42	TYR	20
1	B	51	GLN	20
1	B	46	ARG	19
1	A	8	ILE	18
1	B	52	ARG	18
1	A	20	ARG	17

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Mol	Chain	Res	Type	Models (Total)
1	B	49	LYS	12
1	A	17	LYS	10
1	A	15	THR	7
1	B	47	THR	5
1	A	13	ARG	4
1	A	21	MET	4
1	B	53	MET	4
1	B	44	ASN	1
1	B	45	ARG	1
1	B	43	CYS	1

6.3.3 RNA

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates

There are no monosaccharides in this entry.

6.6 Ligand geometry

There are no ligands in this entry.

6.7 Other polymers

There are no such molecules in this entry.

6.8 Polymer linkage issues

There are no chain breaks in this entry.

7 Chemical shift validation

The completeness of assignment taking into account all chemical shift lists is 13% for the well-defined parts and 12% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *Thanatin-LPS.NMR-STAR*

7.1.1 Bookkeeping

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

Total number of shifts	76
Number of shifts mapped to atoms	76
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	0

7.1.2 Chemical shift referencing

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

7.1.3 Completeness of resonance assignments

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 13%, i.e. 57 atoms were assigned a chemical shift out of a possible 442. 0 out of 0 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	57/145 (39%)	57/59 (97%)	0/58 (0%)	0/28 (0%)
Sidechain	0/279 (0%)	0/178 (0%)	0/77 (0%)	0/24 (0%)
Aromatic	0/18 (0%)	0/8 (0%)	0/10 (0%)	0/0 (—%)
Overall	57/442 (13%)	57/245 (23%)	0/145 (0%)	0/52 (0%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 12%, i.e. 76 atoms were assigned a chemical shift out of a possible 608. 0 out of 2 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	76/206 (37%)	76/84 (90%)	0/84 (0%)	0/38 (0%)
Sidechain	0/384 (0%)	0/246 (0%)	0/110 (0%)	0/28 (0%)
Aromatic	0/18 (0%)	0/8 (0%)	0/10 (0%)	0/0 (—%)
Overall	76/608 (12%)	76/338 (22%)	0/204 (0%)	0/66 (0%)

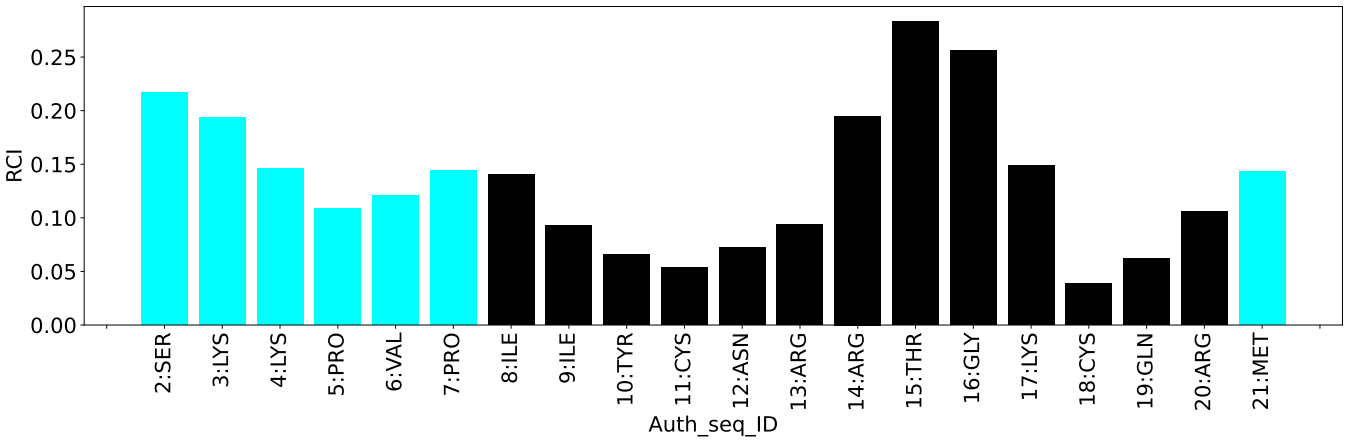
7.1.4 Statistically unusual chemical shifts (i)

There are no statistically unusual chemical shifts.

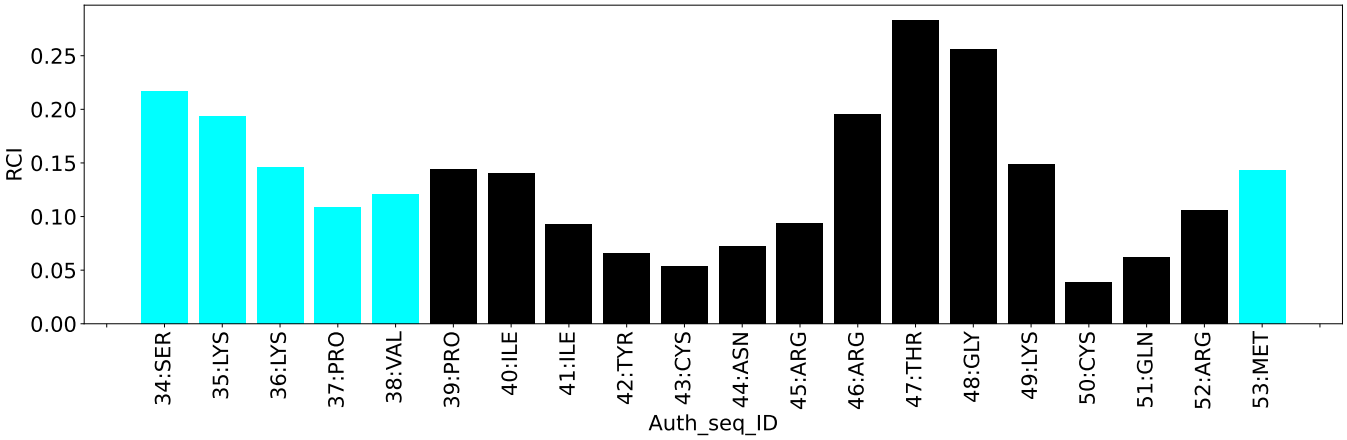
7.1.5 Random Coil Index (RCI) plots (i)

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

Random coil index (RCI) for chain A:



Random coil index (RCI) for chain B:


RCI
0.25
0.20
0.15
0.10
0.05
0.00
34:SER
35:LYS
36:LYS
37:PRO
38:VAL
39:PRO
40:ILE
41:ILE
42:TYR
43:CYS
44:ASN
45:ARG
46:ARG
47:THR
48:GLY
49:LYS
50:CYS
51:GLN
52:ARG
53:MET
Auth_seq_ID

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	382
Intra-residue (|i-j|=0)	170
Sequential (|i-j|=1)	118
Medium range (|i-j|>1 and |i-j|<5)	8
Long range (|i-j|≥5)	80
Inter-chain	6
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	0
Number of restraints per residue	9.1
Number of long range restraints per residue[1]	1.9

[1]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)	53.6	0.2
0.2-0.5 (Medium)	30.7	0.5
>0.5 (Large)	2.6	0.77

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

Dihedral-angle violations less than 1° are not included in the calculation.There are no dihedral-angle violations

9 Distance violation analysis (i)

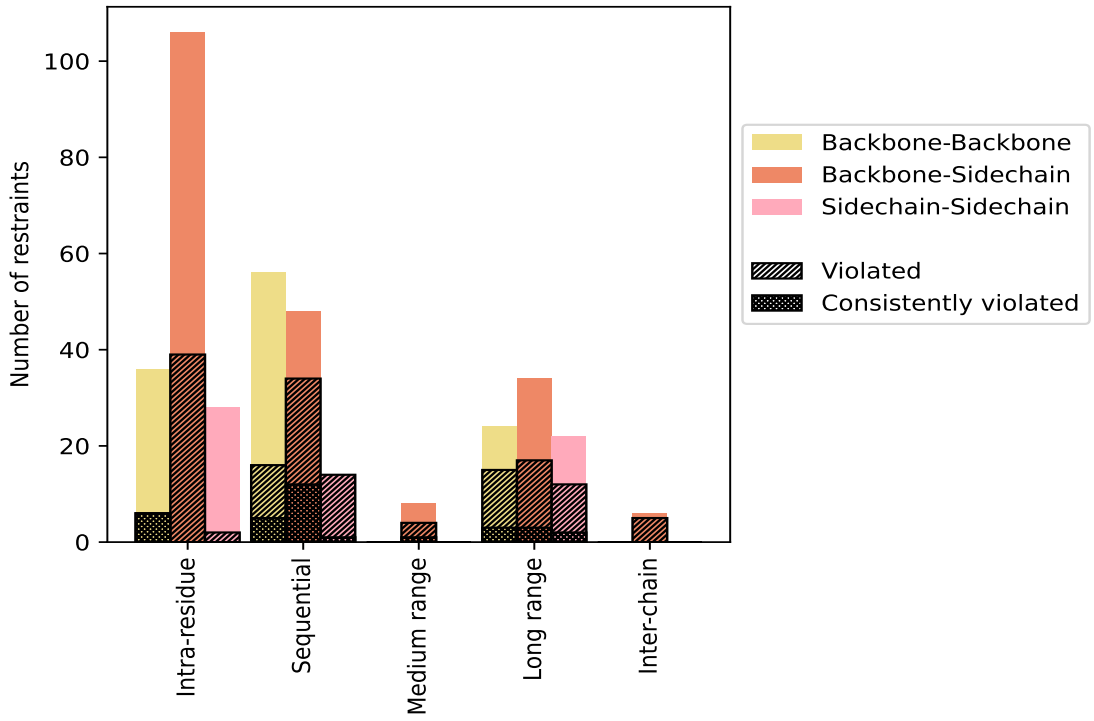
9.1 Summary of distance violations (i)

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

Restraints type	Count	%[1]	Violated[3]			Consistently Violated[4]		
			Count	%[2]	%[1]	Count	%[2]	%[1]
Intra-residue (|i-j|=0)	170	44.5	47	27.6	12.3	6	3.5	1.6
Backbone-Backbone	36	9.4	6	16.7	1.6	6	16.7	1.6
Backbone-Sidechain	106	27.7	39	36.8	10.2	0	0.0	0.0
Sidechain-Sidechain	28	7.3	2	7.1	0.5	0	0.0	0.0
Sequential (|i-j|=1)	118	30.9	64	54.2	16.8	18	15.3	4.7
Backbone-Backbone	56	14.7	16	28.6	4.2	5	8.9	1.3
Backbone-Sidechain	48	12.6	34	70.8	8.9	12	25.0	3.1
Sidechain-Sidechain	14	3.7	14	100.0	3.7	1	7.1	0.3
Medium range (|i-j|>1 & |i-j|<5)	8	2.1	4	50.0	1.0	1	12.5	0.3
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	8	2.1	4	50.0	1.0	1	12.5	0.3
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Long range (|i-j|≥5)	80	20.9	44	55.0	11.5	8	10.0	2.1
Backbone-Backbone	24	6.3	15	62.5	3.9	3	12.5	0.8
Backbone-Sidechain	34	8.9	17	50.0	4.5	3	8.8	0.8
Sidechain-Sidechain	22	5.8	12	54.5	3.1	2	9.1	0.5
Inter-chain	6	1.6	5	83.3	1.3	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	6	1.6	5	83.3	1.3	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Hydrogen bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	382	100.0	164	42.9	42.9	33	8.6	8.6
Backbone-Backbone	116	30.4	37	31.9	9.7	14	12.1	3.7
Backbone-Sidechain	202	52.9	99	49.0	25.9	16	7.9	4.2
Sidechain-Sidechain	64	16.8	28	43.8	7.3	3	4.7	0.8

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

9.1.1 Bar chart : Distribution of distance restraints and violations



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

9.2 Distance violation statistics for each model

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

Model ID	Number of violations						Mean (Å)	Max (Å)	SD[6] (Å)	Median (Å)
	IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total				
1	20	42	1	23	4	90	0.2	0.64	0.1	0.18
2	18	40	1	23	3	85	0.2	0.7	0.1	0.18
3	21	37	1	22	2	83	0.21	0.68	0.1	0.18
4	18	38	2	23	2	83	0.21	0.73	0.11	0.18
5	15	39	1	20	3	78	0.22	0.77	0.12	0.18
6	21	40	3	23	3	90	0.21	0.69	0.11	0.17
7	20	37	3	22	2	84	0.21	0.67	0.1	0.18
8	21	41	2	21	3	88	0.21	0.72	0.11	0.17
9	19	42	2	21	3	87	0.21	0.68	0.1	0.18
10	20	35	1	21	2	79	0.23	0.69	0.12	0.18
11	19	40	1	25	4	89	0.21	0.7	0.12	0.17

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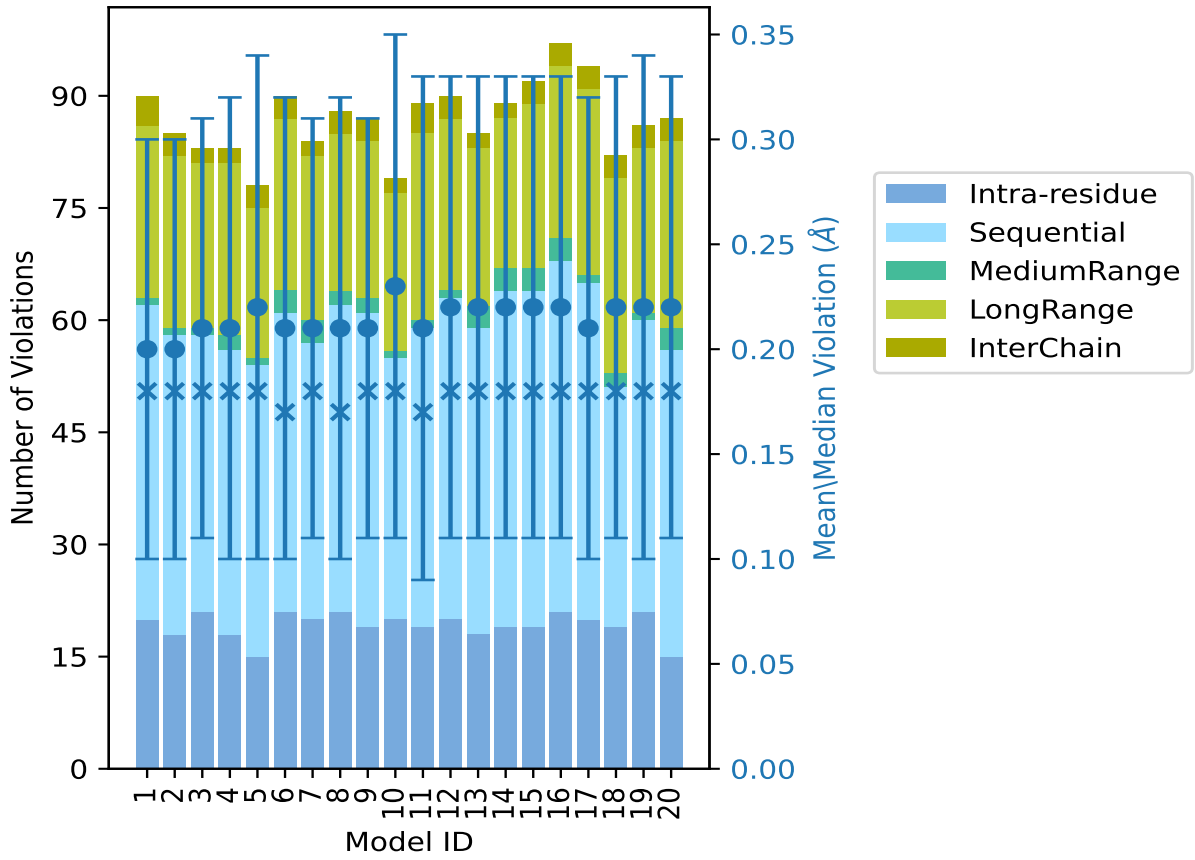
Model ID	Number of violations						Mean (Å)	Max (Å)	SD[6] (Å)	Median (Å)
	IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total				
12	20	43	1	23	3	90	0.22	0.7	0.11	0.18
13	18	41	3	21	2	85	0.22	0.68	0.11	0.18
14	19	45	3	20	2	89	0.22	0.72	0.11	0.18
15	19	45	3	22	3	92	0.22	0.69	0.11	0.18
16	21	47	3	23	3	97	0.22	0.7	0.11	0.18
17	20	45	1	25	3	94	0.21	0.73	0.11	0.18
18	19	32	2	26	3	82	0.22	0.74	0.11	0.18
19	21	39	1	22	3	86	0.22	0.7	0.12	0.18
20	15	41	3	25	3	87	0.22	0.64	0.11	0.18

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

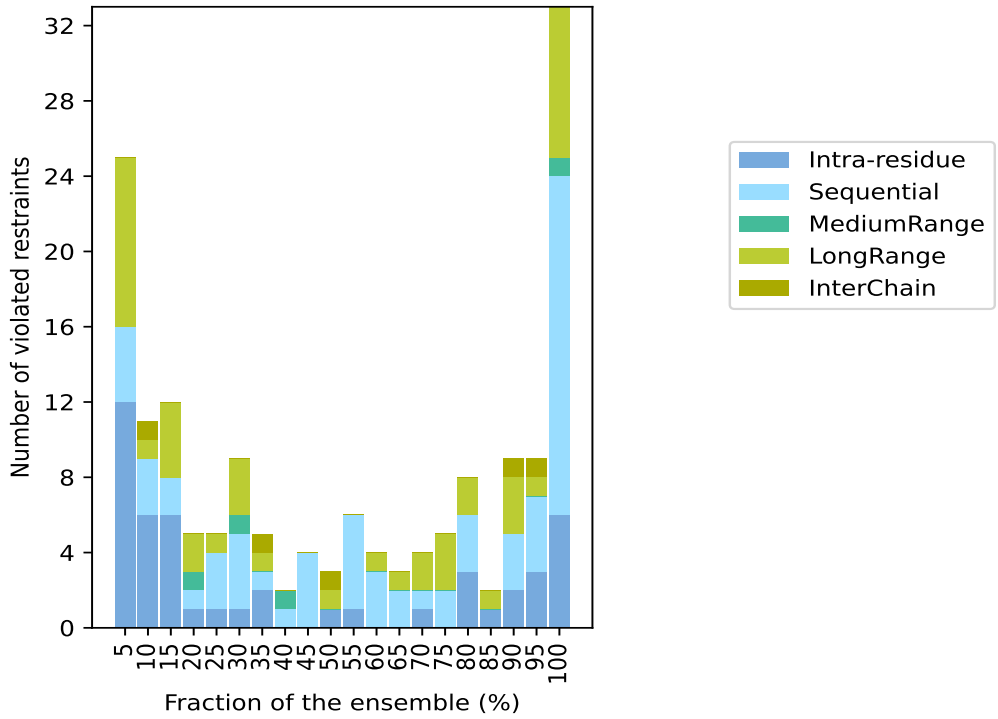
9.3 Distance violation statistics for the ensemble (i)

Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 218(IR:123, SQ:54, MR:4, LR:36, IC:1) restraints are not violated in the ensemble.

Number of violated restraints						Fraction of the ensemble	
IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total	Count[6]	%
12	4	0	9	0	25	1	5.0
6	3	0	1	1	11	2	10.0
6	2	0	4	0	12	3	15.0
1	1	1	2	0	5	4	20.0
1	3	0	1	0	5	5	25.0
1	4	1	3	0	9	6	30.0
2	1	0	1	1	5	7	35.0
0	1	1	0	0	2	8	40.0
0	4	0	0	0	4	9	45.0
1	0	0	1	1	3	10	50.0
1	5	0	0	0	6	11	55.0
0	3	0	1	0	4	12	60.0
0	2	0	1	0	3	13	65.0
1	1	0	2	0	4	14	70.0
0	2	0	3	0	5	15	75.0
3	3	0	2	0	8	16	80.0
1	0	0	1	0	2	17	85.0
2	3	0	3	1	9	18	90.0
3	4	0	1	1	9	19	95.0
6	18	1	8	0	33	20	100.0

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

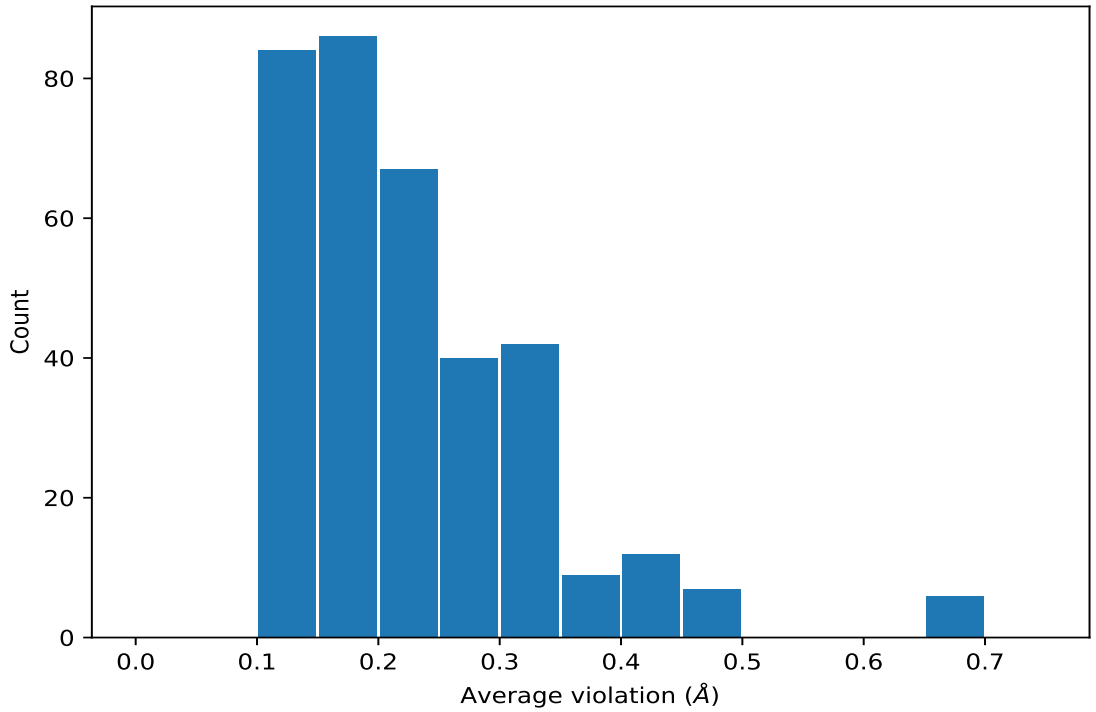
9.3.1 Bar graph : Distance violation statistics for the ensemble



9.4 Most violated distance restraints in the ensemble

9.4.1 Histogram : Distribution of mean distance violations

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



9.4.2 Table: Most violated distance restraints

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

Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,187)	1:A:6:VAL:HG11	1:A:9:ILE:H	20	0.36	0.08	0.33
(1,187)	1:A:6:VAL:HG12	1:A:9:ILE:H	20	0.36	0.08	0.33
(1,187)	1:A:6:VAL:HG13	1:A:9:ILE:H	20	0.36	0.08	0.33
(1,187)	1:A:6:VAL:HG21	1:A:9:ILE:H	20	0.36	0.08	0.33
(1,187)	1:A:6:VAL:HG22	1:A:9:ILE:H	20	0.36	0.08	0.33
(1,187)	1:A:6:VAL:HG23	1:A:9:ILE:H	20	0.36	0.08	0.33
(1,19)	1:A:7:PRO:HB2	1:A:8:ILE:H	20	0.29	0.01	0.29
(1,19)	1:A:7:PRO:HB3	1:A:8:ILE:H	20	0.29	0.01	0.29
(1,233)	1:B:49:LYS:HG2	1:B:50:CYS:H	20	0.29	0.07	0.32
(1,233)	1:B:49:LYS:HG3	1:B:50:CYS:H	20	0.29	0.07	0.32
(2,1)	1:A:3:LYS:HA	1:A:8:ILE:HA	20	0.26	0.09	0.24
(1,46)	1:A:17:LYS:HG2	1:A:18:CYS:H	20	0.26	0.07	0.29
(1,46)	1:A:17:LYS:HG3	1:A:18:CYS:H	20	0.26	0.07	0.29
(1,2)	1:A:3:LYS:HA	1:A:4:LYS:H	20	0.23	0.08	0.22
(1,212)	1:B:41:ILE:HA	1:B:42:TYR:HD1	20	0.22	0.03	0.22
(1,212)	1:B:41:ILE:HA	1:B:42:TYR:HD2	20	0.22	0.03	0.22

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,31)	1:A:10:TYR:H	1:A:11:CYS:H	20	0.22	0.04	0.22
(1,322)	1:B:53:MET:HG2	1:B:40:ILE:H	20	0.22	0.08	0.22
(1,322)	1:B:53:MET:HG3	1:B:40:ILE:H	20	0.22	0.08	0.22
(1,347)	1:B:43:CYS:HA	1:B:51:GLN:H	20	0.22	0.04	0.23
(1,25)	1:A:9:ILE:HA	1:A:10:TYR:HD1	20	0.22	0.03	0.22
(1,25)	1:A:9:ILE:HA	1:A:10:TYR:HD2	20	0.22	0.03	0.22
(1,218)	1:B:42:TYR:H	1:B:43:CYS:H	20	0.2	0.04	0.2
(1,138)	1:A:18:CYS:HA	1:A:10:TYR:H	20	0.2	0.05	0.2
(1,147)	1:A:19:GLN:HG2	1:A:10:TYR:HE1	20	0.2	0.03	0.18
(1,147)	1:A:19:GLN:HG2	1:A:10:TYR:HE2	20	0.2	0.03	0.18
(1,147)	1:A:19:GLN:HG3	1:A:10:TYR:HE1	20	0.2	0.03	0.18
(1,147)	1:A:19:GLN:HG3	1:A:10:TYR:HE2	20	0.2	0.03	0.18
(1,222)	1:B:44:ASN:HD21	1:B:45:ARG:H	20	0.19	0.04	0.18
(1,222)	1:B:44:ASN:HD22	1:B:45:ARG:H	20	0.19	0.04	0.18
(1,27)	1:A:9:ILE:HG21	1:A:10:TYR:HD1	20	0.19	0.02	0.19
(1,27)	1:A:9:ILE:HG21	1:A:10:TYR:HD2	20	0.19	0.02	0.19
(1,27)	1:A:9:ILE:HG22	1:A:10:TYR:HD1	20	0.19	0.02	0.19
(1,27)	1:A:9:ILE:HG22	1:A:10:TYR:HD2	20	0.19	0.02	0.19
(1,27)	1:A:9:ILE:HG23	1:A:10:TYR:HD1	20	0.19	0.02	0.19
(1,27)	1:A:9:ILE:HG23	1:A:10:TYR:HD2	20	0.19	0.02	0.19
(1,334)	1:B:51:GLN:HG2	1:B:42:TYR:HE1	20	0.19	0.03	0.18
(1,334)	1:B:51:GLN:HG2	1:B:42:TYR:HE2	20	0.19	0.03	0.18
(1,334)	1:B:51:GLN:HG3	1:B:42:TYR:HE1	20	0.19	0.03	0.18
(1,334)	1:B:51:GLN:HG3	1:B:42:TYR:HE2	20	0.19	0.03	0.18
(1,206)	1:B:39:PRO:HB2	1:B:40:ILE:H	20	0.18	0.01	0.18
(1,206)	1:B:39:PRO:HB3	1:B:40:ILE:H	20	0.18	0.01	0.18
(1,35)	1:A:12:ASN:HD21	1:A:13:ARG:H	20	0.18	0.02	0.18
(1,35)	1:A:12:ASN:HD22	1:A:13:ARG:H	20	0.18	0.02	0.18
(1,145)	1:A:19:GLN:HA	1:A:10:TYR:HE1	20	0.17	0.02	0.17
(1,145)	1:A:19:GLN:HA	1:A:10:TYR:HE2	20	0.17	0.02	0.17
(1,332)	1:B:51:GLN:HA	1:B:42:TYR:HE1	20	0.17	0.02	0.17
(1,332)	1:B:51:GLN:HA	1:B:42:TYR:HE2	20	0.17	0.02	0.17
(1,45)	1:A:17:LYS:HD2	1:A:18:CYS:H	20	0.16	0.03	0.15
(1,45)	1:A:17:LYS:HD3	1:A:18:CYS:H	20	0.16	0.03	0.15
(1,221)	1:B:44:ASN:HB2	1:B:45:ARG:H	20	0.16	0.02	0.16
(1,221)	1:B:44:ASN:HB3	1:B:45:ARG:H	20	0.16	0.02	0.16
(1,34)	1:A:12:ASN:HB2	1:A:13:ARG:H	20	0.16	0.02	0.16
(1,34)	1:A:12:ASN:HB3	1:A:13:ARG:H	20	0.16	0.02	0.16
(1,232)	1:B:49:LYS:HD2	1:B:50:CYS:H	20	0.16	0.02	0.16
(1,232)	1:B:49:LYS:HD3	1:B:50:CYS:H	20	0.16	0.02	0.16
(1,109)	1:A:15:THR:HA	1:A:15:THR:H	20	0.15	0.0	0.15
(1,296)	1:B:47:THR:HA	1:B:47:THR:H	20	0.15	0.0	0.15

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,299)	1:B:49:LYS:HA	1:B:49:LYS:H	20	0.14	0.01	0.15
(1,112)	1:A:17:LYS:HA	1:A:17:LYS:H	20	0.14	0.01	0.15
(1,21)	1:A:9:ILE:H	1:A:10:TYR:H	20	0.14	0.02	0.12
(1,208)	1:B:41:ILE:H	1:B:42:TYR:H	20	0.13	0.01	0.12
(1,119)	1:A:19:GLN:HA	1:A:19:GLN:H	20	0.12	0.01	0.12
(1,306)	1:B:51:GLN:HA	1:B:51:GLN:H	20	0.12	0.0	0.12
(1,317)	1:B:52:ARG:HD2	1:B:52:ARG:H	19	0.34	0.05	0.33
(1,317)	1:B:52:ARG:HD3	1:B:52:ARG:H	19	0.34	0.05	0.33
(1,301)	1:B:49:LYS:HD2	1:B:49:LYS:H	19	0.24	0.05	0.26
(1,301)	1:B:49:LYS:HD3	1:B:49:LYS:H	19	0.24	0.05	0.26
(1,114)	1:A:17:LYS:HD2	1:A:17:LYS:H	19	0.22	0.07	0.26
(1,114)	1:A:17:LYS:HD3	1:A:17:LYS:H	19	0.22	0.07	0.26
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD11	19	0.21	0.06	0.19
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD12	19	0.21	0.06	0.19
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD13	19	0.21	0.06	0.19
(1,36)	1:A:13:ARG:HA	1:A:14:ARG:HE	19	0.2	0.1	0.17
(1,217)	1:B:42:TYR:HB2	1:B:43:CYS:H	19	0.2	0.02	0.19
(1,217)	1:B:42:TYR:HB3	1:B:43:CYS:H	19	0.2	0.02	0.19
(1,223)	1:B:45:ARG:HA	1:B:46:ARG:HE	19	0.19	0.08	0.18
(1,214)	1:B:41:ILE:HG21	1:B:42:TYR:HD1	19	0.18	0.02	0.18
(1,214)	1:B:41:ILE:HG21	1:B:42:TYR:HD2	19	0.18	0.02	0.18
(1,214)	1:B:41:ILE:HG22	1:B:42:TYR:HD1	19	0.18	0.02	0.18
(1,214)	1:B:41:ILE:HG22	1:B:42:TYR:HD2	19	0.18	0.02	0.18
(1,214)	1:B:41:ILE:HG23	1:B:42:TYR:HD1	19	0.18	0.02	0.18
(1,214)	1:B:41:ILE:HG23	1:B:42:TYR:HD2	19	0.18	0.02	0.18
(1,325)	1:B:50:CYS:HA	1:B:42:TYR:H	19	0.18	0.05	0.17
(1,258)	1:B:40:ILE:HD11	1:B:40:ILE:H	18	0.69	0.03	0.68
(1,258)	1:B:40:ILE:HD12	1:B:40:ILE:H	18	0.69	0.03	0.68
(1,258)	1:B:40:ILE:HD13	1:B:40:ILE:H	18	0.69	0.03	0.68
(1,359)	1:B:40:ILE:HD11	1:B:39:PRO:HD2	18	0.42	0.08	0.42
(1,359)	1:B:40:ILE:HD11	1:B:39:PRO:HD3	18	0.42	0.08	0.42
(1,359)	1:B:40:ILE:HD12	1:B:39:PRO:HD2	18	0.42	0.08	0.42
(1,359)	1:B:40:ILE:HD12	1:B:39:PRO:HD3	18	0.42	0.08	0.42
(1,359)	1:B:40:ILE:HD13	1:B:39:PRO:HD2	18	0.42	0.08	0.42
(1,359)	1:B:40:ILE:HD13	1:B:39:PRO:HD3	18	0.42	0.08	0.42
(2,2)	1:B:35:LYS:HA	1:B:40:ILE:HA	18	0.3	0.08	0.28
(1,137)	1:A:20:ARG:HD2	1:A:9:ILE:H	18	0.28	0.12	0.24
(1,137)	1:A:20:ARG:HD3	1:A:9:ILE:H	18	0.28	0.12	0.24
(1,251)	1:B:38:VAL:HB	1:B:38:VAL:H	18	0.23	0.04	0.25
(1,20)	1:A:8:ILE:HG21	1:A:9:ILE:H	18	0.22	0.11	0.2
(1,20)	1:A:8:ILE:HG22	1:A:9:ILE:H	18	0.22	0.11	0.2
(1,20)	1:A:8:ILE:HG23	1:A:9:ILE:H	18	0.22	0.11	0.2

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD11	18	0.22	0.07	0.21
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD12	18	0.22	0.07	0.21
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD13	18	0.22	0.07	0.21
(1,160)	1:A:11:CYS:HA	1:A:19:GLN:H	18	0.2	0.05	0.22
(1,30)	1:A:10:TYR:HB2	1:A:11:CYS:H	18	0.18	0.03	0.18
(1,30)	1:A:10:TYR:HB3	1:A:11:CYS:H	18	0.18	0.03	0.18
(1,71)	1:A:8:ILE:HD11	1:A:8:ILE:H	17	0.67	0.04	0.68
(1,71)	1:A:8:ILE:HD12	1:A:8:ILE:H	17	0.67	0.04	0.68
(1,71)	1:A:8:ILE:HD13	1:A:8:ILE:H	17	0.67	0.04	0.68
(1,353)	1:B:43:CYS:HA	1:B:49:LYS:H	17	0.2	0.04	0.21
(1,172)	1:A:8:ILE:HD11	1:A:7:PRO:HD2	16	0.41	0.06	0.42
(1,172)	1:A:8:ILE:HD11	1:A:7:PRO:HD3	16	0.41	0.06	0.42
(1,172)	1:A:8:ILE:HD12	1:A:7:PRO:HD2	16	0.41	0.06	0.42
(1,172)	1:A:8:ILE:HD12	1:A:7:PRO:HD3	16	0.41	0.06	0.42
(1,172)	1:A:8:ILE:HD13	1:A:7:PRO:HD2	16	0.41	0.06	0.42
(1,172)	1:A:8:ILE:HD13	1:A:7:PRO:HD3	16	0.41	0.06	0.42
(1,130)	1:A:20:ARG:HD2	1:A:20:ARG:H	16	0.34	0.07	0.34
(1,130)	1:A:20:ARG:HD3	1:A:20:ARG:H	16	0.34	0.07	0.34
(1,64)	1:A:6:VAL:HB	1:A:6:VAL:H	16	0.25	0.05	0.26
(1,189)	1:B:35:LYS:HA	1:B:36:LYS:H	16	0.22	0.07	0.23
(1,135)	1:A:21:MET:HG2	1:A:8:ILE:H	16	0.21	0.06	0.2
(1,135)	1:A:21:MET:HG3	1:A:8:ILE:H	16	0.21	0.06	0.2
(1,294)	1:B:46:ARG:HB2	1:B:46:ARG:H	16	0.16	0.02	0.16
(1,294)	1:B:46:ARG:HB3	1:B:46:ARG:H	16	0.16	0.02	0.16
(1,152)	1:A:8:ILE:HA	1:A:21:MET:H	16	0.15	0.03	0.15
(1,235)	1:B:51:GLN:HG2	1:B:52:ARG:H	16	0.13	0.01	0.12
(1,235)	1:B:51:GLN:HG3	1:B:52:ARG:H	16	0.13	0.01	0.12
(1,372)	1:B:38:VAL:HG11	1:B:52:ARG:HE	15	0.33	0.02	0.33
(1,372)	1:B:38:VAL:HG12	1:B:52:ARG:HE	15	0.33	0.02	0.33
(1,372)	1:B:38:VAL:HG13	1:B:52:ARG:HE	15	0.33	0.02	0.33
(1,372)	1:B:38:VAL:HG21	1:B:52:ARG:HE	15	0.33	0.02	0.33
(1,372)	1:B:38:VAL:HG22	1:B:52:ARG:HE	15	0.33	0.02	0.33
(1,372)	1:B:38:VAL:HG23	1:B:52:ARG:HE	15	0.33	0.02	0.33
(1,185)	1:A:6:VAL:HG11	1:A:20:ARG:HE	15	0.3	0.05	0.33
(1,185)	1:A:6:VAL:HG12	1:A:20:ARG:HE	15	0.3	0.05	0.33
(1,185)	1:A:6:VAL:HG13	1:A:20:ARG:HE	15	0.3	0.05	0.33
(1,185)	1:A:6:VAL:HG21	1:A:20:ARG:HE	15	0.3	0.05	0.33
(1,185)	1:A:6:VAL:HG22	1:A:20:ARG:HE	15	0.3	0.05	0.33
(1,185)	1:A:6:VAL:HG23	1:A:20:ARG:HE	15	0.3	0.05	0.33
(1,166)	1:A:11:CYS:HA	1:A:17:LYS:H	15	0.22	0.05	0.23
(1,207)	1:B:40:ILE:HG21	1:B:41:ILE:H	15	0.2	0.06	0.19
(1,207)	1:B:40:ILE:HG22	1:B:41:ILE:H	15	0.2	0.06	0.19

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,207)	1:B:40:ILE:HG23	1:B:41:ILE:H	15	0.2	0.06	0.19
(1,48)	1:A:19:GLN:HG2	1:A:20:ARG:H	15	0.13	0.01	0.13
(1,48)	1:A:19:GLN:HG3	1:A:20:ARG:H	15	0.13	0.01	0.13
(1,324)	1:B:52:ARG:HD2	1:B:41:ILE:H	14	0.25	0.04	0.26
(1,324)	1:B:52:ARG:HD3	1:B:41:ILE:H	14	0.25	0.04	0.26
(1,186)	1:A:20:ARG:HD2	1:A:6:VAL:H	14	0.18	0.09	0.14
(1,186)	1:A:20:ARG:HD3	1:A:6:VAL:H	14	0.18	0.09	0.14
(1,107)	1:A:14:ARG:HB2	1:A:14:ARG:H	14	0.17	0.02	0.16
(1,107)	1:A:14:ARG:HB3	1:A:14:ARG:H	14	0.17	0.02	0.16
(1,234)	1:B:51:GLN:HE21	1:B:52:ARG:H	14	0.14	0.04	0.12
(1,234)	1:B:51:GLN:HE22	1:B:52:ARG:H	14	0.14	0.04	0.12
(1,39)	1:A:14:ARG:HB2	1:A:15:THR:H	13	0.27	0.02	0.27
(1,39)	1:A:14:ARG:HB3	1:A:15:THR:H	13	0.27	0.02	0.27
(1,373)	1:B:52:ARG:HD2	1:B:38:VAL:H	13	0.21	0.12	0.15
(1,373)	1:B:52:ARG:HD3	1:B:38:VAL:H	13	0.21	0.12	0.15
(1,180)	1:A:16:GLY:HA2	1:A:15:THR:H	13	0.17	0.02	0.17
(1,180)	1:A:16:GLY:HA3	1:A:15:THR:H	13	0.17	0.02	0.17
(1,340)	1:B:40:ILE:H	1:B:53:MET:H	12	0.17	0.05	0.14
(1,364)	1:B:47:THR:H	1:B:46:ARG:H	12	0.15	0.02	0.16
(1,177)	1:A:15:THR:H	1:A:14:ARG:H	12	0.15	0.02	0.15
(1,26)	1:A:9:ILE:HB	1:A:10:TYR:HD1	12	0.12	0.02	0.12
(1,26)	1:A:9:ILE:HB	1:A:10:TYR:HD2	12	0.12	0.02	0.12
(1,226)	1:B:46:ARG:HB2	1:B:47:THR:H	11	0.27	0.02	0.27
(1,226)	1:B:46:ARG:HB3	1:B:47:THR:H	11	0.27	0.02	0.27
(1,203)	1:B:34:SER:HB2	1:B:35:LYS:H	11	0.23	0.01	0.22
(1,203)	1:B:34:SER:HB3	1:B:35:LYS:H	11	0.23	0.01	0.22
(1,117)	1:A:18:CYS:HB2	1:A:18:CYS:H	11	0.21	0.08	0.18
(1,117)	1:A:18:CYS:HB3	1:A:18:CYS:H	11	0.21	0.08	0.18
(1,47)	1:A:19:GLN:HE21	1:A:20:ARG:H	11	0.17	0.06	0.14
(1,47)	1:A:19:GLN:HE22	1:A:20:ARG:H	11	0.17	0.06	0.14
(1,367)	1:B:48:GLY:HA2	1:B:47:THR:H	11	0.17	0.02	0.16
(1,367)	1:B:48:GLY:HA3	1:B:47:THR:H	11	0.17	0.02	0.16
(1,8)	1:A:13:ARG:HA	1:A:14:ARG:H	11	0.12	0.01	0.12
(1,376)	1:B:38:VAL:HG11	1:A:11:CYS:H	10	0.19	0.11	0.14
(1,376)	1:B:38:VAL:HG12	1:A:11:CYS:H	10	0.19	0.11	0.14
(1,376)	1:B:38:VAL:HG13	1:A:11:CYS:H	10	0.19	0.11	0.14
(1,376)	1:B:38:VAL:HG21	1:A:11:CYS:H	10	0.19	0.11	0.14
(1,376)	1:B:38:VAL:HG22	1:A:11:CYS:H	10	0.19	0.11	0.14
(1,376)	1:B:38:VAL:HG23	1:A:11:CYS:H	10	0.19	0.11	0.14
(1,153)	1:A:8:ILE:H	1:A:21:MET:H	10	0.18	0.06	0.17
(1,82)	1:A:10:TYR:HE1	1:A:10:TYR:H	10	0.12	0.01	0.11
(1,82)	1:A:10:TYR:HE2	1:A:10:TYR:H	10	0.12	0.01	0.11

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,173)	1:A:9:ILE:HG21	1:A:8:ILE:H	9	0.15	0.06	0.13
(1,173)	1:A:9:ILE:HG22	1:A:8:ILE:H	9	0.15	0.06	0.13
(1,173)	1:A:9:ILE:HG23	1:A:8:ILE:H	9	0.15	0.06	0.13
(1,213)	1:B:41:ILE:HB	1:B:42:TYR:HD1	9	0.14	0.03	0.14
(1,213)	1:B:41:ILE:HB	1:B:42:TYR:HD2	9	0.14	0.03	0.14
(1,175)	1:A:13:ARG:H	1:A:12:ASN:H	9	0.12	0.01	0.12
(1,195)	1:B:45:ARG:HA	1:B:46:ARG:H	9	0.12	0.01	0.12
(1,374)	1:B:38:VAL:HG11	1:B:41:ILE:H	8	0.22	0.12	0.18
(1,374)	1:B:38:VAL:HG12	1:B:41:ILE:H	8	0.22	0.12	0.18
(1,374)	1:B:38:VAL:HG13	1:B:41:ILE:H	8	0.22	0.12	0.18
(1,374)	1:B:38:VAL:HG21	1:B:41:ILE:H	8	0.22	0.12	0.18
(1,374)	1:B:38:VAL:HG22	1:B:41:ILE:H	8	0.22	0.12	0.18
(1,374)	1:B:38:VAL:HG23	1:B:41:ILE:H	8	0.22	0.12	0.18
(1,362)	1:B:45:ARG:H	1:B:44:ASN:H	8	0.12	0.0	0.12
(1,113)	1:A:17:LYS:HB2	1:A:17:LYS:H	7	0.27	0.02	0.27
(1,113)	1:A:17:LYS:HB3	1:A:17:LYS:H	7	0.27	0.02	0.27
(1,375)	1:A:6:VAL:HG11	1:B:43:CYS:H	7	0.26	0.12	0.21
(1,375)	1:A:6:VAL:HG12	1:B:43:CYS:H	7	0.26	0.12	0.21
(1,375)	1:A:6:VAL:HG13	1:B:43:CYS:H	7	0.26	0.12	0.21
(1,375)	1:A:6:VAL:HG21	1:B:43:CYS:H	7	0.26	0.12	0.21
(1,375)	1:A:6:VAL:HG22	1:B:43:CYS:H	7	0.26	0.12	0.21
(1,375)	1:A:6:VAL:HG23	1:B:43:CYS:H	7	0.26	0.12	0.21
(1,304)	1:B:50:CYS:HB2	1:B:50:CYS:H	7	0.23	0.08	0.2
(1,304)	1:B:50:CYS:HB3	1:B:50:CYS:H	7	0.23	0.08	0.2
(1,371)	1:B:38:VAL:HG11	1:B:53:MET:H	7	0.22	0.13	0.19
(1,371)	1:B:38:VAL:HG12	1:B:53:MET:H	7	0.22	0.13	0.19
(1,371)	1:B:38:VAL:HG13	1:B:53:MET:H	7	0.22	0.13	0.19
(1,371)	1:B:38:VAL:HG21	1:B:53:MET:H	7	0.22	0.13	0.19
(1,371)	1:B:38:VAL:HG22	1:B:53:MET:H	7	0.22	0.13	0.19
(1,371)	1:B:38:VAL:HG23	1:B:53:MET:H	7	0.22	0.13	0.19
(1,204)	1:B:36:LYS:HG2	1:B:37:PRO:HD2	7	0.12	0.01	0.12
(1,204)	1:B:36:LYS:HG2	1:B:37:PRO:HD3	7	0.12	0.01	0.12
(1,204)	1:B:36:LYS:HG3	1:B:37:PRO:HD2	7	0.12	0.01	0.12
(1,204)	1:B:36:LYS:HG3	1:B:37:PRO:HD3	7	0.12	0.01	0.12
(1,184)	1:A:6:VAL:HG11	1:A:21:MET:H	6	0.33	0.22	0.29
(1,184)	1:A:6:VAL:HG12	1:A:21:MET:H	6	0.33	0.22	0.29
(1,184)	1:A:6:VAL:HG13	1:A:21:MET:H	6	0.33	0.22	0.29
(1,184)	1:A:6:VAL:HG21	1:A:21:MET:H	6	0.33	0.22	0.29
(1,184)	1:A:6:VAL:HG22	1:A:21:MET:H	6	0.33	0.22	0.29
(1,184)	1:A:6:VAL:HG23	1:A:21:MET:H	6	0.33	0.22	0.29
(1,365)	1:B:47:THR:HG21	1:B:46:ARG:HE	6	0.27	0.19	0.18
(1,365)	1:B:47:THR:HG22	1:B:46:ARG:HE	6	0.27	0.19	0.18

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,365)	1:B:47:THR:HG23	1:B:46:ARG:HE	6	0.27	0.19	0.18
(1,164)	1:A:18:CYS:HA	1:A:11:CYS:HB2	6	0.22	0.08	0.21
(1,164)	1:A:18:CYS:HA	1:A:11:CYS:HB3	6	0.22	0.08	0.21
(1,368)	1:B:38:VAL:HG11	1:B:35:LYS:H	6	0.19	0.07	0.15
(1,368)	1:B:38:VAL:HG12	1:B:35:LYS:H	6	0.19	0.07	0.15
(1,368)	1:B:38:VAL:HG13	1:B:35:LYS:H	6	0.19	0.07	0.15
(1,368)	1:B:38:VAL:HG21	1:B:35:LYS:H	6	0.19	0.07	0.15
(1,368)	1:B:38:VAL:HG22	1:B:35:LYS:H	6	0.19	0.07	0.15
(1,368)	1:B:38:VAL:HG23	1:B:35:LYS:H	6	0.19	0.07	0.15
(1,178)	1:A:15:THR:HG21	1:A:14:ARG:HE	6	0.17	0.04	0.16
(1,178)	1:A:15:THR:HG22	1:A:14:ARG:HE	6	0.17	0.04	0.16
(1,178)	1:A:15:THR:HG23	1:A:14:ARG:HE	6	0.17	0.04	0.16
(1,174)	1:A:10:TYR:HA	1:A:9:ILE:H	6	0.16	0.02	0.16
(1,32)	1:A:10:TYR:HD1	1:A:11:CYS:H	6	0.14	0.02	0.14
(1,32)	1:A:10:TYR:HD2	1:A:11:CYS:H	6	0.14	0.02	0.14
(1,339)	1:B:40:ILE:HA	1:B:53:MET:H	6	0.12	0.01	0.12
(1,269)	1:B:42:TYR:HE1	1:B:42:TYR:H	6	0.12	0.01	0.12
(1,269)	1:B:42:TYR:HE2	1:B:42:TYR:H	6	0.12	0.01	0.12
(1,341)	1:B:40:ILE:HD11	1:B:53:MET:H	5	0.37	0.17	0.3
(1,341)	1:B:40:ILE:HD12	1:B:53:MET:H	5	0.37	0.17	0.3
(1,341)	1:B:40:ILE:HD13	1:B:53:MET:H	5	0.37	0.17	0.3
(1,18)	1:A:6:VAL:HG11	1:A:7:PRO:HD2	5	0.35	0.12	0.4
(1,18)	1:A:6:VAL:HG11	1:A:7:PRO:HD3	5	0.35	0.12	0.4
(1,18)	1:A:6:VAL:HG12	1:A:7:PRO:HD2	5	0.35	0.12	0.4
(1,18)	1:A:6:VAL:HG12	1:A:7:PRO:HD3	5	0.35	0.12	0.4
(1,18)	1:A:6:VAL:HG13	1:A:7:PRO:HD2	5	0.35	0.12	0.4
(1,18)	1:A:6:VAL:HG13	1:A:7:PRO:HD3	5	0.35	0.12	0.4
(1,18)	1:A:6:VAL:HG21	1:A:7:PRO:HD2	5	0.35	0.12	0.4
(1,18)	1:A:6:VAL:HG21	1:A:7:PRO:HD3	5	0.35	0.12	0.4
(1,18)	1:A:6:VAL:HG22	1:A:7:PRO:HD2	5	0.35	0.12	0.4
(1,18)	1:A:6:VAL:HG22	1:A:7:PRO:HD3	5	0.35	0.12	0.4
(1,18)	1:A:6:VAL:HG23	1:A:7:PRO:HD2	5	0.35	0.12	0.4
(1,18)	1:A:6:VAL:HG23	1:A:7:PRO:HD3	5	0.35	0.12	0.4
(1,300)	1:B:49:LYS:HB2	1:B:49:LYS:H	5	0.26	0.01	0.26
(1,300)	1:B:49:LYS:HB3	1:B:49:LYS:H	5	0.26	0.01	0.26
(1,16)	1:A:2:SER:HB2	1:A:3:LYS:H	5	0.14	0.05	0.12
(1,16)	1:A:2:SER:HB3	1:A:3:LYS:H	5	0.14	0.05	0.12
(1,360)	1:B:41:ILE:HG21	1:B:40:ILE:H	5	0.12	0.01	0.12
(1,360)	1:B:41:ILE:HG22	1:B:40:ILE:H	5	0.12	0.01	0.12
(1,360)	1:B:41:ILE:HG23	1:B:40:ILE:H	5	0.12	0.01	0.12
(1,337)	1:B:41:ILE:HG12	1:B:52:ARG:HE	4	0.35	0.12	0.3
(1,337)	1:B:41:ILE:HG13	1:B:52:ARG:HE	4	0.35	0.12	0.3

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,205)	1:B:38:VAL:HG11	1:B:39:PRO:HD2	4	0.31	0.14	0.34
(1,205)	1:B:38:VAL:HG11	1:B:39:PRO:HD3	4	0.31	0.14	0.34
(1,205)	1:B:38:VAL:HG12	1:B:39:PRO:HD2	4	0.31	0.14	0.34
(1,205)	1:B:38:VAL:HG12	1:B:39:PRO:HD3	4	0.31	0.14	0.34
(1,205)	1:B:38:VAL:HG13	1:B:39:PRO:HD2	4	0.31	0.14	0.34
(1,205)	1:B:38:VAL:HG13	1:B:39:PRO:HD3	4	0.31	0.14	0.34
(1,205)	1:B:38:VAL:HG21	1:B:39:PRO:HD2	4	0.31	0.14	0.34
(1,205)	1:B:38:VAL:HG21	1:B:39:PRO:HD3	4	0.31	0.14	0.34
(1,205)	1:B:38:VAL:HG22	1:B:39:PRO:HD2	4	0.31	0.14	0.34
(1,205)	1:B:38:VAL:HG22	1:B:39:PRO:HD3	4	0.31	0.14	0.34
(1,205)	1:B:38:VAL:HG23	1:B:39:PRO:HD2	4	0.31	0.14	0.34
(1,205)	1:B:38:VAL:HG23	1:B:39:PRO:HD3	4	0.31	0.14	0.34
(1,181)	1:A:6:VAL:HG11	1:A:3:LYS:H	4	0.19	0.09	0.15
(1,181)	1:A:6:VAL:HG12	1:A:3:LYS:H	4	0.19	0.09	0.15
(1,181)	1:A:6:VAL:HG13	1:A:3:LYS:H	4	0.19	0.09	0.15
(1,181)	1:A:6:VAL:HG21	1:A:3:LYS:H	4	0.19	0.09	0.15
(1,181)	1:A:6:VAL:HG22	1:A:3:LYS:H	4	0.19	0.09	0.15
(1,181)	1:A:6:VAL:HG23	1:A:3:LYS:H	4	0.19	0.09	0.15
(1,52)	1:A:3:LYS:HB2	1:A:3:LYS:H	4	0.18	0.03	0.18
(1,52)	1:A:3:LYS:HB3	1:A:3:LYS:H	4	0.18	0.03	0.18
(1,328)	1:B:51:GLN:HB2	1:B:42:TYR:HD1	4	0.11	0.0	0.11
(1,328)	1:B:51:GLN:HB2	1:B:42:TYR:HD2	4	0.11	0.0	0.11
(1,328)	1:B:51:GLN:HB3	1:B:42:TYR:HD1	4	0.11	0.0	0.11
(1,328)	1:B:51:GLN:HB3	1:B:42:TYR:HD2	4	0.11	0.0	0.11
(1,106)	1:A:14:ARG:HG2	1:A:14:ARG:H	3	0.49	0.01	0.5
(1,106)	1:A:14:ARG:HG3	1:A:14:ARG:H	3	0.49	0.01	0.5
(1,154)	1:A:8:ILE:HD11	1:A:21:MET:H	3	0.47	0.01	0.47
(1,154)	1:A:8:ILE:HD12	1:A:21:MET:H	3	0.47	0.01	0.47
(1,154)	1:A:8:ILE:HD13	1:A:21:MET:H	3	0.47	0.01	0.47
(1,239)	1:B:35:LYS:HB2	1:B:35:LYS:H	3	0.2	0.03	0.21
(1,239)	1:B:35:LYS:HB3	1:B:35:LYS:H	3	0.2	0.03	0.21
(1,336)	1:B:40:ILE:HG12	1:B:52:ARG:HE	3	0.17	0.04	0.15
(1,336)	1:B:40:ILE:HG13	1:B:52:ARG:HE	3	0.17	0.04	0.15
(1,351)	1:B:50:CYS:HA	1:B:43:CYS:HB2	3	0.16	0.04	0.14
(1,351)	1:B:50:CYS:HA	1:B:43:CYS:HB3	3	0.16	0.04	0.14
(1,126)	1:A:20:ARG:HA	1:A:20:ARG:HE	3	0.15	0.04	0.12
(1,165)	1:A:11:CYS:HA	1:A:18:CYS:HB2	3	0.14	0.02	0.14
(1,165)	1:A:11:CYS:HA	1:A:18:CYS:HB3	3	0.14	0.02	0.14
(1,287)	1:B:46:ARG:HA	1:B:46:ARG:HE	3	0.14	0.0	0.14
(1,17)	1:A:4:LYS:HG2	1:A:5:PRO:HD2	3	0.13	0.01	0.13
(1,17)	1:A:4:LYS:HG2	1:A:5:PRO:HD3	3	0.13	0.01	0.13
(1,17)	1:A:4:LYS:HG3	1:A:5:PRO:HD2	3	0.13	0.01	0.13

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,17)	1:A:4:LYS:HG3	1:A:5:PRO:HD3	3	0.13	0.01	0.13
(1,94)	1:A:13:ARG:HA	1:A:13:ARG:HE	3	0.12	0.01	0.13
(1,100)	1:A:14:ARG:HA	1:A:14:ARG:HE	3	0.12	0.01	0.12
(1,29)	1:A:9:ILE:HG21	1:A:10:TYR:HE1	3	0.11	0.0	0.11
(1,29)	1:A:9:ILE:HG21	1:A:10:TYR:HE2	3	0.11	0.0	0.11
(1,29)	1:A:9:ILE:HG22	1:A:10:TYR:HE1	3	0.11	0.0	0.11
(1,29)	1:A:9:ILE:HG22	1:A:10:TYR:HE2	3	0.11	0.0	0.11
(1,29)	1:A:9:ILE:HG23	1:A:10:TYR:HE1	3	0.11	0.0	0.11
(1,29)	1:A:9:ILE:HG23	1:A:10:TYR:HE2	3	0.11	0.0	0.11
(1,293)	1:B:46:ARG:HG2	1:B:46:ARG:H	2	0.49	0.01	0.49
(1,293)	1:B:46:ARG:HG3	1:B:46:ARG:H	2	0.49	0.01	0.49
(1,330)	1:B:53:MET:HG2	1:B:42:TYR:HD1	2	0.3	0.06	0.3
(1,330)	1:B:53:MET:HG2	1:B:42:TYR:HD2	2	0.3	0.06	0.3
(1,330)	1:B:53:MET:HG3	1:B:42:TYR:HD1	2	0.3	0.06	0.3
(1,330)	1:B:53:MET:HG3	1:B:42:TYR:HD2	2	0.3	0.06	0.3
(1,219)	1:B:42:TYR:HD1	1:B:43:CYS:H	2	0.2	0.0	0.2
(1,219)	1:B:42:TYR:HD2	1:B:43:CYS:H	2	0.2	0.0	0.2
(1,380)	1:B:46:ARG:H	1:A:6:VAL:HG11	2	0.18	0.04	0.18
(1,380)	1:B:46:ARG:H	1:A:6:VAL:HG12	2	0.18	0.04	0.18
(1,380)	1:B:46:ARG:H	1:A:6:VAL:HG13	2	0.18	0.04	0.18
(1,380)	1:B:46:ARG:H	1:A:6:VAL:HG21	2	0.18	0.04	0.18
(1,380)	1:B:46:ARG:H	1:A:6:VAL:HG22	2	0.18	0.04	0.18
(1,380)	1:B:46:ARG:H	1:A:6:VAL:HG23	2	0.18	0.04	0.18
(1,265)	1:B:41:ILE:HG21	1:B:41:ILE:H	2	0.15	0.0	0.15
(1,265)	1:B:41:ILE:HG22	1:B:41:ILE:H	2	0.15	0.0	0.15
(1,265)	1:B:41:ILE:HG23	1:B:41:ILE:H	2	0.15	0.0	0.15
(1,245)	1:B:36:LYS:HD2	1:B:36:LYS:H	2	0.15	0.03	0.15
(1,245)	1:B:36:LYS:HD3	1:B:36:LYS:H	2	0.15	0.03	0.15
(1,228)	1:B:47:THR:HG21	1:B:48:GLY:H	2	0.14	0.03	0.14
(1,228)	1:B:47:THR:HG22	1:B:48:GLY:H	2	0.14	0.03	0.14
(1,228)	1:B:47:THR:HG23	1:B:48:GLY:H	2	0.14	0.03	0.14
(1,59)	1:A:4:LYS:HG2	1:A:4:LYS:H	2	0.14	0.01	0.14
(1,59)	1:A:4:LYS:HG3	1:A:4:LYS:H	2	0.14	0.01	0.14
(1,270)	1:B:42:TYR:HA	1:B:42:TYR:HD1	2	0.13	0.0	0.13
(1,270)	1:B:42:TYR:HA	1:B:42:TYR:HD2	2	0.13	0.0	0.13
(1,83)	1:A:10:TYR:HA	1:A:10:TYR:HD1	2	0.12	0.01	0.12
(1,83)	1:A:10:TYR:HA	1:A:10:TYR:HD2	2	0.12	0.01	0.12
(1,216)	1:B:41:ILE:HG21	1:B:42:TYR:HE1	2	0.12	0.0	0.12
(1,216)	1:B:41:ILE:HG21	1:B:42:TYR:HE2	2	0.12	0.0	0.12
(1,216)	1:B:41:ILE:HG22	1:B:42:TYR:HE1	2	0.12	0.0	0.12
(1,216)	1:B:41:ILE:HG22	1:B:42:TYR:HE2	2	0.12	0.0	0.12
(1,216)	1:B:41:ILE:HG23	1:B:42:TYR:HE1	2	0.12	0.0	0.12

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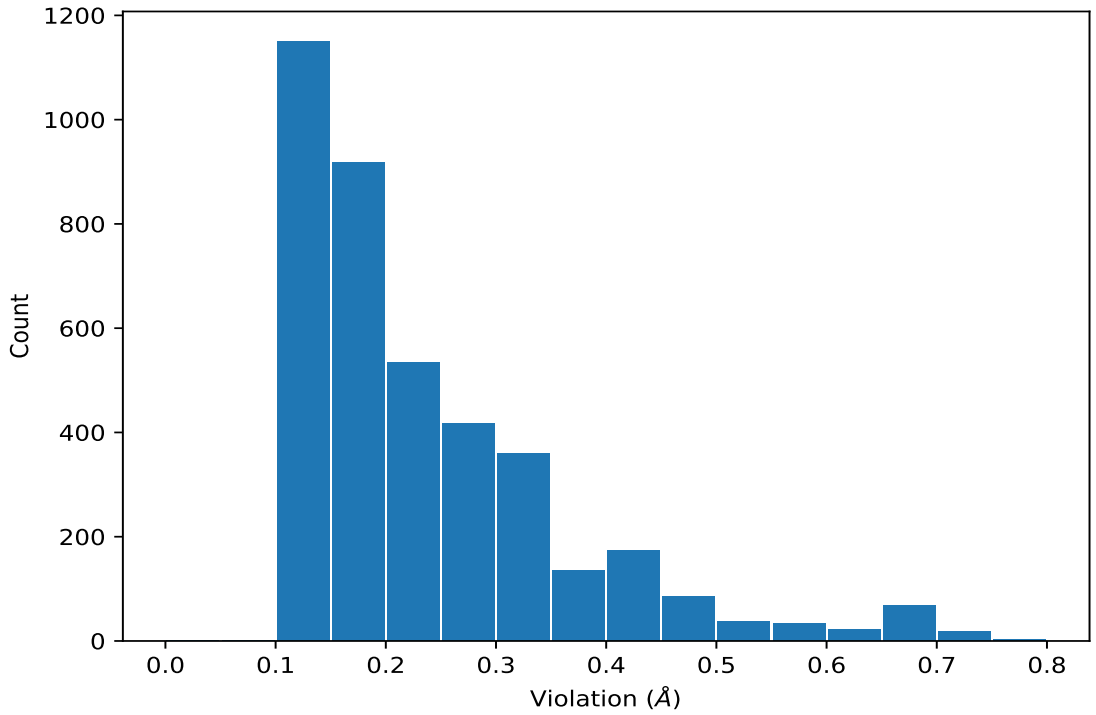
Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,216)	1:B:41:ILE:HG23	1:B:42:TYR:HE2	2	0.12	0.0	0.12

[1]Number of violated models, [2]Standard deviation

9.5 All violated distance restraints

9.5.1 Histogram : Distribution of distance violations

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

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)
(1,71)	1:A:8:ILE:HD11	1:A:8:ILE:H	5	0.77
(1,71)	1:A:8:ILE:HD12	1:A:8:ILE:H	5	0.77
(1,71)	1:A:8:ILE:HD13	1:A:8:ILE:H	5	0.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,258)	1:B:40:ILE:HD11	1:B:40:ILE:H	18	0.74
(1,258)	1:B:40:ILE:HD12	1:B:40:ILE:H	18	0.74
(1,258)	1:B:40:ILE:HD13	1:B:40:ILE:H	18	0.74
(1,258)	1:B:40:ILE:HD11	1:B:40:ILE:H	4	0.73
(1,258)	1:B:40:ILE:HD12	1:B:40:ILE:H	4	0.73
(1,258)	1:B:40:ILE:HD13	1:B:40:ILE:H	4	0.73
(1,258)	1:B:40:ILE:HD11	1:B:40:ILE:H	17	0.73
(1,258)	1:B:40:ILE:HD12	1:B:40:ILE:H	17	0.73
(1,258)	1:B:40:ILE:HD13	1:B:40:ILE:H	17	0.73
(1,71)	1:A:8:ILE:HD11	1:A:8:ILE:H	14	0.72
(1,71)	1:A:8:ILE:HD12	1:A:8:ILE:H	14	0.72
(1,71)	1:A:8:ILE:HD13	1:A:8:ILE:H	14	0.72
(1,258)	1:B:40:ILE:HD11	1:B:40:ILE:H	8	0.72
(1,258)	1:B:40:ILE:HD12	1:B:40:ILE:H	8	0.72
(1,258)	1:B:40:ILE:HD13	1:B:40:ILE:H	8	0.72
(1,258)	1:B:40:ILE:HD11	1:B:40:ILE:H	14	0.71
(1,258)	1:B:40:ILE:HD12	1:B:40:ILE:H	14	0.71
(1,258)	1:B:40:ILE:HD13	1:B:40:ILE:H	14	0.71
(1,71)	1:A:8:ILE:HD11	1:A:8:ILE:H	2	0.7
(1,71)	1:A:8:ILE:HD12	1:A:8:ILE:H	2	0.7
(1,71)	1:A:8:ILE:HD13	1:A:8:ILE:H	2	0.7
(1,365)	1:B:47:THR:HG21	1:B:46:ARG:HE	19	0.7
(1,365)	1:B:47:THR:HG22	1:B:46:ARG:HE	19	0.7
(1,365)	1:B:47:THR:HG23	1:B:46:ARG:HE	19	0.7
(1,258)	1:B:40:ILE:HD11	1:B:40:ILE:H	11	0.7
(1,258)	1:B:40:ILE:HD12	1:B:40:ILE:H	11	0.7
(1,258)	1:B:40:ILE:HD13	1:B:40:ILE:H	11	0.7
(1,258)	1:B:40:ILE:HD11	1:B:40:ILE:H	12	0.7
(1,258)	1:B:40:ILE:HD12	1:B:40:ILE:H	12	0.7
(1,258)	1:B:40:ILE:HD13	1:B:40:ILE:H	12	0.7
(1,258)	1:B:40:ILE:HD11	1:B:40:ILE:H	16	0.7
(1,258)	1:B:40:ILE:HD12	1:B:40:ILE:H	16	0.7
(1,258)	1:B:40:ILE:HD13	1:B:40:ILE:H	16	0.7
(1,71)	1:A:8:ILE:HD11	1:A:8:ILE:H	6	0.69
(1,71)	1:A:8:ILE:HD12	1:A:8:ILE:H	6	0.69
(1,71)	1:A:8:ILE:HD13	1:A:8:ILE:H	6	0.69
(1,71)	1:A:8:ILE:HD11	1:A:8:ILE:H	11	0.69
(1,71)	1:A:8:ILE:HD12	1:A:8:ILE:H	11	0.69
(1,71)	1:A:8:ILE:HD13	1:A:8:ILE:H	11	0.69
(1,71)	1:A:8:ILE:HD11	1:A:8:ILE:H	15	0.69
(1,71)	1:A:8:ILE:HD12	1:A:8:ILE:H	15	0.69
(1,71)	1:A:8:ILE:HD13	1:A:8:ILE:H	15	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,71)	1:A:8:ILE:HD11	1:A:8:ILE:H	16	0.69
(1,71)	1:A:8:ILE:HD12	1:A:8:ILE:H	16	0.69
(1,71)	1:A:8:ILE:HD13	1:A:8:ILE:H	16	0.69
(1,258)	1:B:40:ILE:HD11	1:B:40:ILE:H	10	0.69
(1,258)	1:B:40:ILE:HD12	1:B:40:ILE:H	10	0.69
(1,258)	1:B:40:ILE:HD13	1:B:40:ILE:H	10	0.69
(1,71)	1:A:8:ILE:HD11	1:A:8:ILE:H	4	0.68
(1,71)	1:A:8:ILE:HD12	1:A:8:ILE:H	4	0.68
(1,71)	1:A:8:ILE:HD13	1:A:8:ILE:H	4	0.68
(1,71)	1:A:8:ILE:HD11	1:A:8:ILE:H	13	0.68
(1,71)	1:A:8:ILE:HD12	1:A:8:ILE:H	13	0.68
(1,71)	1:A:8:ILE:HD13	1:A:8:ILE:H	13	0.68
(1,258)	1:B:40:ILE:HD11	1:B:40:ILE:H	2	0.68
(1,258)	1:B:40:ILE:HD12	1:B:40:ILE:H	2	0.68
(1,258)	1:B:40:ILE:HD13	1:B:40:ILE:H	2	0.68
(1,258)	1:B:40:ILE:HD11	1:B:40:ILE:H	3	0.68
(1,258)	1:B:40:ILE:HD12	1:B:40:ILE:H	3	0.68
(1,258)	1:B:40:ILE:HD13	1:B:40:ILE:H	3	0.68
(1,258)	1:B:40:ILE:HD11	1:B:40:ILE:H	5	0.68
(1,258)	1:B:40:ILE:HD12	1:B:40:ILE:H	5	0.68
(1,258)	1:B:40:ILE:HD13	1:B:40:ILE:H	5	0.68
(1,258)	1:B:40:ILE:HD11	1:B:40:ILE:H	9	0.68
(1,258)	1:B:40:ILE:HD12	1:B:40:ILE:H	9	0.68
(1,258)	1:B:40:ILE:HD13	1:B:40:ILE:H	9	0.68
(1,71)	1:A:8:ILE:HD11	1:A:8:ILE:H	3	0.67
(1,71)	1:A:8:ILE:HD12	1:A:8:ILE:H	3	0.67
(1,71)	1:A:8:ILE:HD13	1:A:8:ILE:H	3	0.67
(1,71)	1:A:8:ILE:HD11	1:A:8:ILE:H	7	0.67
(1,71)	1:A:8:ILE:HD12	1:A:8:ILE:H	7	0.67
(1,71)	1:A:8:ILE:HD13	1:A:8:ILE:H	7	0.67
(1,71)	1:A:8:ILE:HD11	1:A:8:ILE:H	10	0.67
(1,71)	1:A:8:ILE:HD12	1:A:8:ILE:H	10	0.67
(1,71)	1:A:8:ILE:HD13	1:A:8:ILE:H	10	0.67
(1,258)	1:B:40:ILE:HD11	1:B:40:ILE:H	15	0.67
(1,258)	1:B:40:ILE:HD12	1:B:40:ILE:H	15	0.67
(1,258)	1:B:40:ILE:HD13	1:B:40:ILE:H	15	0.67
(1,258)	1:B:40:ILE:HD11	1:B:40:ILE:H	19	0.67
(1,258)	1:B:40:ILE:HD12	1:B:40:ILE:H	19	0.67
(1,258)	1:B:40:ILE:HD13	1:B:40:ILE:H	19	0.67
(1,258)	1:B:40:ILE:HD11	1:B:40:ILE:H	6	0.66
(1,258)	1:B:40:ILE:HD12	1:B:40:ILE:H	6	0.66
(1,258)	1:B:40:ILE:HD13	1:B:40:ILE:H	6	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,71)	1:A:8:ILE:HD11	1:A:8:ILE:H	8	0.65
(1,71)	1:A:8:ILE:HD12	1:A:8:ILE:H	8	0.65
(1,71)	1:A:8:ILE:HD13	1:A:8:ILE:H	8	0.65
(1,98)	1:A:13:ARG:HD2	1:A:13:ARG:H	10	0.64
(1,98)	1:A:13:ARG:HD3	1:A:13:ARG:H	10	0.64
(1,71)	1:A:8:ILE:HD11	1:A:8:ILE:H	1	0.64
(1,71)	1:A:8:ILE:HD12	1:A:8:ILE:H	1	0.64
(1,71)	1:A:8:ILE:HD13	1:A:8:ILE:H	1	0.64
(1,71)	1:A:8:ILE:HD11	1:A:8:ILE:H	12	0.64
(1,71)	1:A:8:ILE:HD12	1:A:8:ILE:H	12	0.64
(1,71)	1:A:8:ILE:HD13	1:A:8:ILE:H	12	0.64
(1,258)	1:B:40:ILE:HD11	1:B:40:ILE:H	13	0.64
(1,258)	1:B:40:ILE:HD12	1:B:40:ILE:H	13	0.64
(1,258)	1:B:40:ILE:HD13	1:B:40:ILE:H	13	0.64
(1,184)	1:A:6:VAL:HG11	1:A:21:MET:H	20	0.64
(1,184)	1:A:6:VAL:HG12	1:A:21:MET:H	20	0.64
(1,184)	1:A:6:VAL:HG13	1:A:21:MET:H	20	0.64
(1,184)	1:A:6:VAL:HG21	1:A:21:MET:H	20	0.64
(1,184)	1:A:6:VAL:HG22	1:A:21:MET:H	20	0.64
(1,184)	1:A:6:VAL:HG23	1:A:21:MET:H	20	0.64
(1,71)	1:A:8:ILE:HD11	1:A:8:ILE:H	17	0.63
(1,71)	1:A:8:ILE:HD12	1:A:8:ILE:H	17	0.63
(1,71)	1:A:8:ILE:HD13	1:A:8:ILE:H	17	0.63
(1,258)	1:B:40:ILE:HD11	1:B:40:ILE:H	1	0.63
(1,258)	1:B:40:ILE:HD12	1:B:40:ILE:H	1	0.63
(1,258)	1:B:40:ILE:HD13	1:B:40:ILE:H	1	0.63
(1,341)	1:B:40:ILE:HD11	1:B:53:MET:H	7	0.59
(1,341)	1:B:40:ILE:HD12	1:B:53:MET:H	7	0.59
(1,341)	1:B:40:ILE:HD13	1:B:53:MET:H	7	0.59
(1,187)	1:A:6:VAL:HG11	1:A:9:ILE:H	8	0.59
(1,187)	1:A:6:VAL:HG12	1:A:9:ILE:H	8	0.59
(1,187)	1:A:6:VAL:HG13	1:A:9:ILE:H	8	0.59
(1,187)	1:A:6:VAL:HG21	1:A:9:ILE:H	8	0.59
(1,187)	1:A:6:VAL:HG22	1:A:9:ILE:H	8	0.59
(1,187)	1:A:6:VAL:HG23	1:A:9:ILE:H	8	0.59
(1,313)	1:B:52:ARG:HA	1:B:52:ARG:HE	17	0.57
(1,130)	1:A:20:ARG:HD2	1:A:20:ARG:H	12	0.57
(1,130)	1:A:20:ARG:HD3	1:A:20:ARG:H	12	0.57
(1,359)	1:B:40:ILE:HD11	1:B:39:PRO:HD2	16	0.56
(1,359)	1:B:40:ILE:HD11	1:B:39:PRO:HD3	16	0.56
(1,359)	1:B:40:ILE:HD12	1:B:39:PRO:HD2	16	0.56
(1,359)	1:B:40:ILE:HD12	1:B:39:PRO:HD3	16	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,359)	1:B:40:ILE:HD13	1:B:39:PRO:HD2	16	0.56
(1,359)	1:B:40:ILE:HD13	1:B:39:PRO:HD3	16	0.56
(1,341)	1:B:40:ILE:HD11	1:B:53:MET:H	20	0.56
(1,341)	1:B:40:ILE:HD12	1:B:53:MET:H	20	0.56
(1,341)	1:B:40:ILE:HD13	1:B:53:MET:H	20	0.56
(1,317)	1:B:52:ARG:HD2	1:B:52:ARG:H	19	0.56
(1,317)	1:B:52:ARG:HD3	1:B:52:ARG:H	19	0.56
(1,71)	1:A:8:ILE:HD11	1:A:8:ILE:H	20	0.55
(1,71)	1:A:8:ILE:HD12	1:A:8:ILE:H	20	0.55
(1,71)	1:A:8:ILE:HD13	1:A:8:ILE:H	20	0.55
(1,187)	1:A:6:VAL:HG11	1:A:9:ILE:H	5	0.55
(1,187)	1:A:6:VAL:HG12	1:A:9:ILE:H	5	0.55
(1,187)	1:A:6:VAL:HG13	1:A:9:ILE:H	5	0.55
(1,187)	1:A:6:VAL:HG21	1:A:9:ILE:H	5	0.55
(1,187)	1:A:6:VAL:HG22	1:A:9:ILE:H	5	0.55
(1,187)	1:A:6:VAL:HG23	1:A:9:ILE:H	5	0.55
(1,137)	1:A:20:ARG:HD2	1:A:9:ILE:H	11	0.55
(1,137)	1:A:20:ARG:HD3	1:A:9:ILE:H	11	0.55
(1,337)	1:B:41:ILE:HG12	1:B:52:ARG:HE	16	0.54
(1,337)	1:B:41:ILE:HG13	1:B:52:ARG:HE	16	0.54
(1,184)	1:A:6:VAL:HG11	1:A:21:MET:H	12	0.54
(1,184)	1:A:6:VAL:HG12	1:A:21:MET:H	12	0.54
(1,184)	1:A:6:VAL:HG13	1:A:21:MET:H	12	0.54
(1,184)	1:A:6:VAL:HG21	1:A:21:MET:H	12	0.54
(1,184)	1:A:6:VAL:HG22	1:A:21:MET:H	12	0.54
(1,184)	1:A:6:VAL:HG23	1:A:21:MET:H	12	0.54
(1,20)	1:A:8:ILE:HG21	1:A:9:ILE:H	11	0.53
(1,20)	1:A:8:ILE:HG22	1:A:9:ILE:H	11	0.53
(1,20)	1:A:8:ILE:HG23	1:A:9:ILE:H	11	0.53
(1,359)	1:B:40:ILE:HD11	1:B:39:PRO:HD2	6	0.52
(1,359)	1:B:40:ILE:HD11	1:B:39:PRO:HD3	6	0.52
(1,359)	1:B:40:ILE:HD12	1:B:39:PRO:HD2	6	0.52
(1,359)	1:B:40:ILE:HD12	1:B:39:PRO:HD3	6	0.52
(1,359)	1:B:40:ILE:HD13	1:B:39:PRO:HD2	6	0.52
(1,359)	1:B:40:ILE:HD13	1:B:39:PRO:HD3	6	0.52
(1,359)	1:B:40:ILE:HD11	1:B:39:PRO:HD2	19	0.52
(1,359)	1:B:40:ILE:HD11	1:B:39:PRO:HD3	19	0.52
(1,359)	1:B:40:ILE:HD12	1:B:39:PRO:HD2	19	0.52
(1,359)	1:B:40:ILE:HD12	1:B:39:PRO:HD3	19	0.52
(1,359)	1:B:40:ILE:HD13	1:B:39:PRO:HD2	19	0.52
(1,359)	1:B:40:ILE:HD13	1:B:39:PRO:HD3	19	0.52
(1,359)	1:B:40:ILE:HD11	1:B:39:PRO:HD2	15	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,359)	1:B:40:ILE:HD11	1:B:39:PRO:HD3	15	0.5
(1,359)	1:B:40:ILE:HD12	1:B:39:PRO:HD2	15	0.5
(1,359)	1:B:40:ILE:HD12	1:B:39:PRO:HD3	15	0.5
(1,359)	1:B:40:ILE:HD13	1:B:39:PRO:HD2	15	0.5
(1,359)	1:B:40:ILE:HD13	1:B:39:PRO:HD3	15	0.5
(1,293)	1:B:46:ARG:HG2	1:B:46:ARG:H	5	0.5
(1,293)	1:B:46:ARG:HG3	1:B:46:ARG:H	5	0.5
(1,137)	1:A:20:ARG:HD2	1:A:9:ILE:H	14	0.5
(1,137)	1:A:20:ARG:HD3	1:A:9:ILE:H	14	0.5
(1,106)	1:A:14:ARG:HG2	1:A:14:ARG:H	10	0.5
(1,106)	1:A:14:ARG:HG3	1:A:14:ARG:H	10	0.5
(1,106)	1:A:14:ARG:HG2	1:A:14:ARG:H	18	0.5
(1,106)	1:A:14:ARG:HG3	1:A:14:ARG:H	18	0.5
(1,172)	1:A:8:ILE:HD11	1:A:7:PRO:HD2	8	0.49
(1,172)	1:A:8:ILE:HD11	1:A:7:PRO:HD3	8	0.49
(1,172)	1:A:8:ILE:HD12	1:A:7:PRO:HD2	8	0.49
(1,172)	1:A:8:ILE:HD12	1:A:7:PRO:HD3	8	0.49
(1,172)	1:A:8:ILE:HD13	1:A:7:PRO:HD2	8	0.49
(1,172)	1:A:8:ILE:HD13	1:A:7:PRO:HD3	8	0.49
(1,293)	1:B:46:ARG:HG2	1:B:46:ARG:H	4	0.48
(1,293)	1:B:46:ARG:HG3	1:B:46:ARG:H	4	0.48
(1,154)	1:A:8:ILE:HD11	1:A:21:MET:H	9	0.48
(1,154)	1:A:8:ILE:HD12	1:A:21:MET:H	9	0.48
(1,154)	1:A:8:ILE:HD13	1:A:21:MET:H	9	0.48
(2,2)	1:B:35:LYS:HA	1:B:40:ILE:HA	17	0.47
(1,371)	1:B:38:VAL:HG11	1:B:53:MET:H	13	0.47
(1,371)	1:B:38:VAL:HG12	1:B:53:MET:H	13	0.47
(1,371)	1:B:38:VAL:HG13	1:B:53:MET:H	13	0.47
(1,371)	1:B:38:VAL:HG21	1:B:53:MET:H	13	0.47
(1,371)	1:B:38:VAL:HG22	1:B:53:MET:H	13	0.47
(1,371)	1:B:38:VAL:HG23	1:B:53:MET:H	13	0.47
(1,172)	1:A:8:ILE:HD11	1:A:7:PRO:HD2	17	0.47
(1,172)	1:A:8:ILE:HD11	1:A:7:PRO:HD3	17	0.47
(1,172)	1:A:8:ILE:HD12	1:A:7:PRO:HD2	17	0.47
(1,172)	1:A:8:ILE:HD12	1:A:7:PRO:HD3	17	0.47
(1,172)	1:A:8:ILE:HD13	1:A:7:PRO:HD2	17	0.47
(1,172)	1:A:8:ILE:HD13	1:A:7:PRO:HD3	17	0.47
(1,154)	1:A:8:ILE:HD11	1:A:21:MET:H	18	0.47
(1,154)	1:A:8:ILE:HD12	1:A:21:MET:H	18	0.47
(1,154)	1:A:8:ILE:HD13	1:A:21:MET:H	18	0.47
(1,106)	1:A:14:ARG:HG2	1:A:14:ARG:H	13	0.47
(1,106)	1:A:14:ARG:HG3	1:A:14:ARG:H	13	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,186)	1:A:20:ARG:HD2	1:A:6:VAL:H	8	0.46
(1,186)	1:A:20:ARG:HD3	1:A:6:VAL:H	8	0.46
(1,184)	1:A:6:VAL:HG11	1:A:21:MET:H	11	0.46
(1,184)	1:A:6:VAL:HG12	1:A:21:MET:H	11	0.46
(1,184)	1:A:6:VAL:HG13	1:A:21:MET:H	11	0.46
(1,184)	1:A:6:VAL:HG21	1:A:21:MET:H	11	0.46
(1,184)	1:A:6:VAL:HG22	1:A:21:MET:H	11	0.46
(1,184)	1:A:6:VAL:HG23	1:A:21:MET:H	11	0.46
(1,172)	1:A:8:ILE:HD11	1:A:7:PRO:HD2	15	0.46
(1,172)	1:A:8:ILE:HD11	1:A:7:PRO:HD3	15	0.46
(1,172)	1:A:8:ILE:HD12	1:A:7:PRO:HD2	15	0.46
(1,172)	1:A:8:ILE:HD12	1:A:7:PRO:HD3	15	0.46
(1,172)	1:A:8:ILE:HD13	1:A:7:PRO:HD2	15	0.46
(1,172)	1:A:8:ILE:HD13	1:A:7:PRO:HD3	15	0.46
(1,154)	1:A:8:ILE:HD11	1:A:21:MET:H	19	0.46
(1,154)	1:A:8:ILE:HD12	1:A:21:MET:H	19	0.46
(1,154)	1:A:8:ILE:HD13	1:A:21:MET:H	19	0.46
(1,374)	1:B:38:VAL:HG11	1:B:41:ILE:H	16	0.45
(1,374)	1:B:38:VAL:HG12	1:B:41:ILE:H	16	0.45
(1,374)	1:B:38:VAL:HG13	1:B:41:ILE:H	16	0.45
(1,374)	1:B:38:VAL:HG21	1:B:41:ILE:H	16	0.45
(1,374)	1:B:38:VAL:HG22	1:B:41:ILE:H	16	0.45
(1,374)	1:B:38:VAL:HG23	1:B:41:ILE:H	16	0.45
(1,373)	1:B:52:ARG:HD2	1:B:38:VAL:H	6	0.45
(1,373)	1:B:52:ARG:HD3	1:B:38:VAL:H	6	0.45
(1,373)	1:B:52:ARG:HD2	1:B:38:VAL:H	15	0.45
(1,373)	1:B:52:ARG:HD3	1:B:38:VAL:H	15	0.45
(1,205)	1:B:38:VAL:HG11	1:B:39:PRO:HD2	7	0.45
(1,205)	1:B:38:VAL:HG11	1:B:39:PRO:HD3	7	0.45
(1,205)	1:B:38:VAL:HG12	1:B:39:PRO:HD2	7	0.45
(1,205)	1:B:38:VAL:HG12	1:B:39:PRO:HD3	7	0.45
(1,205)	1:B:38:VAL:HG13	1:B:39:PRO:HD2	7	0.45
(1,205)	1:B:38:VAL:HG13	1:B:39:PRO:HD3	7	0.45
(1,205)	1:B:38:VAL:HG21	1:B:39:PRO:HD2	7	0.45
(1,205)	1:B:38:VAL:HG21	1:B:39:PRO:HD3	7	0.45
(1,205)	1:B:38:VAL:HG22	1:B:39:PRO:HD2	7	0.45
(1,205)	1:B:38:VAL:HG22	1:B:39:PRO:HD3	7	0.45
(1,205)	1:B:38:VAL:HG23	1:B:39:PRO:HD2	7	0.45
(1,205)	1:B:38:VAL:HG23	1:B:39:PRO:HD3	7	0.45
(1,205)	1:B:38:VAL:HG11	1:B:39:PRO:HD2	20	0.45
(1,205)	1:B:38:VAL:HG11	1:B:39:PRO:HD3	20	0.45
(1,205)	1:B:38:VAL:HG12	1:B:39:PRO:HD2	20	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,205)	1:B:38:VAL:HG12	1:B:39:PRO:HD3	20	0.45
(1,205)	1:B:38:VAL:HG13	1:B:39:PRO:HD2	20	0.45
(1,205)	1:B:38:VAL:HG13	1:B:39:PRO:HD3	20	0.45
(1,205)	1:B:38:VAL:HG21	1:B:39:PRO:HD2	20	0.45
(1,205)	1:B:38:VAL:HG21	1:B:39:PRO:HD3	20	0.45
(1,205)	1:B:38:VAL:HG22	1:B:39:PRO:HD2	20	0.45
(1,205)	1:B:38:VAL:HG22	1:B:39:PRO:HD3	20	0.45
(1,205)	1:B:38:VAL:HG23	1:B:39:PRO:HD2	20	0.45
(1,205)	1:B:38:VAL:HG23	1:B:39:PRO:HD3	20	0.45
(1,172)	1:A:8:ILE:HD11	1:A:7:PRO:HD2	13	0.45
(1,172)	1:A:8:ILE:HD11	1:A:7:PRO:HD3	13	0.45
(1,172)	1:A:8:ILE:HD12	1:A:7:PRO:HD2	13	0.45
(1,172)	1:A:8:ILE:HD12	1:A:7:PRO:HD3	13	0.45
(1,172)	1:A:8:ILE:HD13	1:A:7:PRO:HD2	13	0.45
(1,172)	1:A:8:ILE:HD13	1:A:7:PRO:HD3	13	0.45
(1,376)	1:B:38:VAL:HG11	1:A:11:CYS:H	20	0.44
(1,376)	1:B:38:VAL:HG12	1:A:11:CYS:H	20	0.44
(1,376)	1:B:38:VAL:HG13	1:A:11:CYS:H	20	0.44
(1,376)	1:B:38:VAL:HG21	1:A:11:CYS:H	20	0.44
(1,376)	1:B:38:VAL:HG22	1:A:11:CYS:H	20	0.44
(1,376)	1:B:38:VAL:HG23	1:A:11:CYS:H	20	0.44
(1,187)	1:A:6:VAL:HG11	1:A:9:ILE:H	14	0.44
(1,187)	1:A:6:VAL:HG12	1:A:9:ILE:H	14	0.44
(1,187)	1:A:6:VAL:HG13	1:A:9:ILE:H	14	0.44
(1,187)	1:A:6:VAL:HG21	1:A:9:ILE:H	14	0.44
(1,187)	1:A:6:VAL:HG22	1:A:9:ILE:H	14	0.44
(1,187)	1:A:6:VAL:HG23	1:A:9:ILE:H	14	0.44
(1,18)	1:A:6:VAL:HG11	1:A:7:PRO:HD2	18	0.44
(1,18)	1:A:6:VAL:HG11	1:A:7:PRO:HD3	18	0.44
(1,18)	1:A:6:VAL:HG12	1:A:7:PRO:HD2	18	0.44
(1,18)	1:A:6:VAL:HG12	1:A:7:PRO:HD3	18	0.44
(1,18)	1:A:6:VAL:HG13	1:A:7:PRO:HD2	18	0.44
(1,18)	1:A:6:VAL:HG13	1:A:7:PRO:HD3	18	0.44
(1,18)	1:A:6:VAL:HG21	1:A:7:PRO:HD2	18	0.44
(1,18)	1:A:6:VAL:HG21	1:A:7:PRO:HD3	18	0.44
(1,18)	1:A:6:VAL:HG22	1:A:7:PRO:HD2	18	0.44
(1,18)	1:A:6:VAL:HG22	1:A:7:PRO:HD3	18	0.44
(1,18)	1:A:6:VAL:HG23	1:A:7:PRO:HD2	18	0.44
(1,18)	1:A:6:VAL:HG23	1:A:7:PRO:HD3	18	0.44
(1,172)	1:A:8:ILE:HD11	1:A:7:PRO:HD2	1	0.44
(1,172)	1:A:8:ILE:HD11	1:A:7:PRO:HD3	1	0.44
(1,172)	1:A:8:ILE:HD12	1:A:7:PRO:HD2	1	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,172)	1:A:8:ILE:HD12	1:A:7:PRO:HD3	1	0.44
(1,172)	1:A:8:ILE:HD13	1:A:7:PRO:HD2	1	0.44
(1,172)	1:A:8:ILE:HD13	1:A:7:PRO:HD3	1	0.44
(1,172)	1:A:8:ILE:HD11	1:A:7:PRO:HD2	6	0.44
(1,172)	1:A:8:ILE:HD11	1:A:7:PRO:HD3	6	0.44
(1,172)	1:A:8:ILE:HD12	1:A:7:PRO:HD2	6	0.44
(1,172)	1:A:8:ILE:HD12	1:A:7:PRO:HD3	6	0.44
(1,172)	1:A:8:ILE:HD13	1:A:7:PRO:HD2	6	0.44
(1,172)	1:A:8:ILE:HD13	1:A:7:PRO:HD3	6	0.44
(2,1)	1:A:3:LYS:HA	1:A:8:ILE:HA	11	0.43
(2,1)	1:A:3:LYS:HA	1:A:8:ILE:HA	20	0.43
(1,375)	1:A:6:VAL:HG11	1:B:43:CYS:H	18	0.43
(1,375)	1:A:6:VAL:HG12	1:B:43:CYS:H	18	0.43
(1,375)	1:A:6:VAL:HG13	1:B:43:CYS:H	18	0.43
(1,375)	1:A:6:VAL:HG21	1:B:43:CYS:H	18	0.43
(1,375)	1:A:6:VAL:HG22	1:B:43:CYS:H	18	0.43
(1,375)	1:A:6:VAL:HG23	1:B:43:CYS:H	18	0.43
(1,359)	1:B:40:ILE:HD11	1:B:39:PRO:HD2	1	0.43
(1,359)	1:B:40:ILE:HD11	1:B:39:PRO:HD3	1	0.43
(1,359)	1:B:40:ILE:HD12	1:B:39:PRO:HD2	1	0.43
(1,359)	1:B:40:ILE:HD12	1:B:39:PRO:HD3	1	0.43
(1,359)	1:B:40:ILE:HD13	1:B:39:PRO:HD2	1	0.43
(1,359)	1:B:40:ILE:HD13	1:B:39:PRO:HD3	1	0.43
(1,359)	1:B:40:ILE:HD11	1:B:39:PRO:HD2	5	0.43
(1,359)	1:B:40:ILE:HD11	1:B:39:PRO:HD3	5	0.43
(1,359)	1:B:40:ILE:HD12	1:B:39:PRO:HD2	5	0.43
(1,359)	1:B:40:ILE:HD12	1:B:39:PRO:HD3	5	0.43
(1,359)	1:B:40:ILE:HD13	1:B:39:PRO:HD2	5	0.43
(1,359)	1:B:40:ILE:HD13	1:B:39:PRO:HD3	5	0.43
(1,359)	1:B:40:ILE:HD11	1:B:39:PRO:HD2	8	0.43
(1,359)	1:B:40:ILE:HD11	1:B:39:PRO:HD3	8	0.43
(1,359)	1:B:40:ILE:HD12	1:B:39:PRO:HD2	8	0.43
(1,359)	1:B:40:ILE:HD12	1:B:39:PRO:HD3	8	0.43
(1,359)	1:B:40:ILE:HD13	1:B:39:PRO:HD2	8	0.43
(1,359)	1:B:40:ILE:HD13	1:B:39:PRO:HD3	8	0.43
(1,18)	1:A:6:VAL:HG11	1:A:7:PRO:HD2	9	0.43
(1,18)	1:A:6:VAL:HG11	1:A:7:PRO:HD3	9	0.43
(1,18)	1:A:6:VAL:HG12	1:A:7:PRO:HD2	9	0.43
(1,18)	1:A:6:VAL:HG12	1:A:7:PRO:HD3	9	0.43
(1,18)	1:A:6:VAL:HG13	1:A:7:PRO:HD2	9	0.43
(1,18)	1:A:6:VAL:HG13	1:A:7:PRO:HD3	9	0.43
(1,18)	1:A:6:VAL:HG21	1:A:7:PRO:HD2	9	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,18)	1:A:6:VAL:HG21	1:A:7:PRO:HD3	9	0.43
(1,18)	1:A:6:VAL:HG22	1:A:7:PRO:HD2	9	0.43
(1,18)	1:A:6:VAL:HG22	1:A:7:PRO:HD3	9	0.43
(1,18)	1:A:6:VAL:HG23	1:A:7:PRO:HD2	9	0.43
(1,18)	1:A:6:VAL:HG23	1:A:7:PRO:HD3	9	0.43
(1,172)	1:A:8:ILE:HD11	1:A:7:PRO:HD2	14	0.43
(1,172)	1:A:8:ILE:HD11	1:A:7:PRO:HD3	14	0.43
(1,172)	1:A:8:ILE:HD12	1:A:7:PRO:HD2	14	0.43
(1,172)	1:A:8:ILE:HD12	1:A:7:PRO:HD3	14	0.43
(1,172)	1:A:8:ILE:HD13	1:A:7:PRO:HD2	14	0.43
(1,172)	1:A:8:ILE:HD13	1:A:7:PRO:HD3	14	0.43
(1,172)	1:A:8:ILE:HD11	1:A:7:PRO:HD2	20	0.43
(1,172)	1:A:8:ILE:HD11	1:A:7:PRO:HD3	20	0.43
(1,172)	1:A:8:ILE:HD12	1:A:7:PRO:HD2	20	0.43
(1,172)	1:A:8:ILE:HD12	1:A:7:PRO:HD3	20	0.43
(1,172)	1:A:8:ILE:HD13	1:A:7:PRO:HD2	20	0.43
(1,172)	1:A:8:ILE:HD13	1:A:7:PRO:HD3	20	0.43
(1,359)	1:B:40:ILE:HD11	1:B:39:PRO:HD2	2	0.42
(1,359)	1:B:40:ILE:HD11	1:B:39:PRO:HD3	2	0.42
(1,359)	1:B:40:ILE:HD12	1:B:39:PRO:HD2	2	0.42
(1,359)	1:B:40:ILE:HD12	1:B:39:PRO:HD3	2	0.42
(1,359)	1:B:40:ILE:HD13	1:B:39:PRO:HD2	2	0.42
(1,359)	1:B:40:ILE:HD13	1:B:39:PRO:HD3	2	0.42
(1,359)	1:B:40:ILE:HD11	1:B:39:PRO:HD2	3	0.42
(1,359)	1:B:40:ILE:HD11	1:B:39:PRO:HD3	3	0.42
(1,359)	1:B:40:ILE:HD12	1:B:39:PRO:HD2	3	0.42
(1,359)	1:B:40:ILE:HD12	1:B:39:PRO:HD3	3	0.42
(1,359)	1:B:40:ILE:HD13	1:B:39:PRO:HD2	3	0.42
(1,359)	1:B:40:ILE:HD13	1:B:39:PRO:HD3	3	0.42
(1,172)	1:A:8:ILE:HD11	1:A:7:PRO:HD2	2	0.42
(1,172)	1:A:8:ILE:HD11	1:A:7:PRO:HD3	2	0.42
(1,172)	1:A:8:ILE:HD12	1:A:7:PRO:HD2	2	0.42
(1,172)	1:A:8:ILE:HD12	1:A:7:PRO:HD3	2	0.42
(1,172)	1:A:8:ILE:HD13	1:A:7:PRO:HD2	2	0.42
(1,172)	1:A:8:ILE:HD13	1:A:7:PRO:HD3	2	0.42
(1,172)	1:A:8:ILE:HD11	1:A:7:PRO:HD2	4	0.42
(1,172)	1:A:8:ILE:HD11	1:A:7:PRO:HD3	4	0.42
(1,172)	1:A:8:ILE:HD12	1:A:7:PRO:HD2	4	0.42
(1,172)	1:A:8:ILE:HD12	1:A:7:PRO:HD3	4	0.42
(1,172)	1:A:8:ILE:HD13	1:A:7:PRO:HD2	4	0.42
(1,172)	1:A:8:ILE:HD13	1:A:7:PRO:HD3	4	0.42
(1,172)	1:A:8:ILE:HD11	1:A:7:PRO:HD2	7	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,172)	1:A:8:ILE:HD11	1:A:7:PRO:HD3	7	0.42
(1,172)	1:A:8:ILE:HD12	1:A:7:PRO:HD2	7	0.42
(1,172)	1:A:8:ILE:HD12	1:A:7:PRO:HD3	7	0.42
(1,172)	1:A:8:ILE:HD13	1:A:7:PRO:HD2	7	0.42
(1,172)	1:A:8:ILE:HD13	1:A:7:PRO:HD3	7	0.42
(1,137)	1:A:20:ARG:HD2	1:A:9:ILE:H	19	0.42
(1,137)	1:A:20:ARG:HD3	1:A:9:ILE:H	19	0.42
(2,2)	1:B:35:LYS:HA	1:B:40:ILE:HA	19	0.41
(1,36)	1:A:13:ARG:HA	1:A:14:ARG:HE	10	0.41
(1,36)	1:A:13:ARG:HA	1:A:14:ARG:HE	13	0.41
(1,359)	1:B:40:ILE:HD11	1:B:39:PRO:HD2	11	0.41
(1,359)	1:B:40:ILE:HD11	1:B:39:PRO:HD3	11	0.41
(1,359)	1:B:40:ILE:HD12	1:B:39:PRO:HD2	11	0.41
(1,359)	1:B:40:ILE:HD12	1:B:39:PRO:HD3	11	0.41
(1,359)	1:B:40:ILE:HD13	1:B:39:PRO:HD2	11	0.41
(1,359)	1:B:40:ILE:HD13	1:B:39:PRO:HD3	11	0.41
(1,223)	1:B:45:ARG:HA	1:B:46:ARG:HE	4	0.41
(1,172)	1:A:8:ILE:HD11	1:A:7:PRO:HD2	3	0.41
(1,172)	1:A:8:ILE:HD11	1:A:7:PRO:HD3	3	0.41
(1,172)	1:A:8:ILE:HD12	1:A:7:PRO:HD2	3	0.41
(1,172)	1:A:8:ILE:HD12	1:A:7:PRO:HD3	3	0.41
(1,172)	1:A:8:ILE:HD13	1:A:7:PRO:HD2	3	0.41
(1,172)	1:A:8:ILE:HD13	1:A:7:PRO:HD3	3	0.41
(1,172)	1:A:8:ILE:HD11	1:A:7:PRO:HD2	16	0.41
(1,172)	1:A:8:ILE:HD11	1:A:7:PRO:HD3	16	0.41
(1,172)	1:A:8:ILE:HD12	1:A:7:PRO:HD2	16	0.41
(1,172)	1:A:8:ILE:HD12	1:A:7:PRO:HD3	16	0.41
(1,172)	1:A:8:ILE:HD13	1:A:7:PRO:HD2	16	0.41
(1,172)	1:A:8:ILE:HD13	1:A:7:PRO:HD3	16	0.41
(1,36)	1:A:13:ARG:HA	1:A:14:ARG:HE	18	0.4
(1,359)	1:B:40:ILE:HD11	1:B:39:PRO:HD2	9	0.4
(1,359)	1:B:40:ILE:HD11	1:B:39:PRO:HD3	9	0.4
(1,359)	1:B:40:ILE:HD12	1:B:39:PRO:HD2	9	0.4
(1,359)	1:B:40:ILE:HD12	1:B:39:PRO:HD3	9	0.4
(1,359)	1:B:40:ILE:HD13	1:B:39:PRO:HD2	9	0.4
(1,359)	1:B:40:ILE:HD13	1:B:39:PRO:HD3	9	0.4
(1,359)	1:B:40:ILE:HD11	1:B:39:PRO:HD2	12	0.4
(1,359)	1:B:40:ILE:HD11	1:B:39:PRO:HD3	12	0.4
(1,359)	1:B:40:ILE:HD12	1:B:39:PRO:HD2	12	0.4
(1,359)	1:B:40:ILE:HD12	1:B:39:PRO:HD3	12	0.4
(1,359)	1:B:40:ILE:HD13	1:B:39:PRO:HD2	12	0.4
(1,359)	1:B:40:ILE:HD13	1:B:39:PRO:HD3	12	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,18)	1:A:6:VAL:HG11	1:A:7:PRO:HD2	19	0.4
(1,18)	1:A:6:VAL:HG11	1:A:7:PRO:HD3	19	0.4
(1,18)	1:A:6:VAL:HG12	1:A:7:PRO:HD2	19	0.4
(1,18)	1:A:6:VAL:HG12	1:A:7:PRO:HD3	19	0.4
(1,18)	1:A:6:VAL:HG13	1:A:7:PRO:HD2	19	0.4
(1,18)	1:A:6:VAL:HG13	1:A:7:PRO:HD3	19	0.4
(1,18)	1:A:6:VAL:HG21	1:A:7:PRO:HD2	19	0.4
(1,18)	1:A:6:VAL:HG21	1:A:7:PRO:HD3	19	0.4
(1,18)	1:A:6:VAL:HG22	1:A:7:PRO:HD2	19	0.4
(1,18)	1:A:6:VAL:HG22	1:A:7:PRO:HD3	19	0.4
(1,18)	1:A:6:VAL:HG23	1:A:7:PRO:HD2	19	0.4
(1,18)	1:A:6:VAL:HG23	1:A:7:PRO:HD3	19	0.4
(1,172)	1:A:8:ILE:HD11	1:A:7:PRO:HD2	10	0.4
(1,172)	1:A:8:ILE:HD11	1:A:7:PRO:HD3	10	0.4
(1,172)	1:A:8:ILE:HD12	1:A:7:PRO:HD2	10	0.4
(1,172)	1:A:8:ILE:HD12	1:A:7:PRO:HD3	10	0.4
(1,172)	1:A:8:ILE:HD13	1:A:7:PRO:HD2	10	0.4
(1,172)	1:A:8:ILE:HD13	1:A:7:PRO:HD3	10	0.4
(1,137)	1:A:20:ARG:HD2	1:A:9:ILE:H	18	0.4
(1,137)	1:A:20:ARG:HD3	1:A:9:ILE:H	18	0.4
(2,2)	1:B:35:LYS:HA	1:B:40:ILE:HA	9	0.39
(2,1)	1:A:3:LYS:HA	1:A:8:ILE:HA	12	0.39
(1,359)	1:B:40:ILE:HD11	1:B:39:PRO:HD2	4	0.39
(1,359)	1:B:40:ILE:HD11	1:B:39:PRO:HD3	4	0.39
(1,359)	1:B:40:ILE:HD12	1:B:39:PRO:HD2	4	0.39
(1,359)	1:B:40:ILE:HD12	1:B:39:PRO:HD3	4	0.39
(1,359)	1:B:40:ILE:HD13	1:B:39:PRO:HD2	4	0.39
(1,359)	1:B:40:ILE:HD13	1:B:39:PRO:HD3	4	0.39
(1,359)	1:B:40:ILE:HD11	1:B:39:PRO:HD2	10	0.39
(1,359)	1:B:40:ILE:HD11	1:B:39:PRO:HD3	10	0.39
(1,359)	1:B:40:ILE:HD12	1:B:39:PRO:HD2	10	0.39
(1,359)	1:B:40:ILE:HD12	1:B:39:PRO:HD3	10	0.39
(1,359)	1:B:40:ILE:HD13	1:B:39:PRO:HD2	10	0.39
(1,359)	1:B:40:ILE:HD13	1:B:39:PRO:HD3	10	0.39
(1,359)	1:B:40:ILE:HD11	1:B:39:PRO:HD2	14	0.39
(1,359)	1:B:40:ILE:HD11	1:B:39:PRO:HD3	14	0.39
(1,359)	1:B:40:ILE:HD12	1:B:39:PRO:HD2	14	0.39
(1,359)	1:B:40:ILE:HD12	1:B:39:PRO:HD3	14	0.39
(1,359)	1:B:40:ILE:HD13	1:B:39:PRO:HD2	14	0.39
(1,359)	1:B:40:ILE:HD13	1:B:39:PRO:HD3	14	0.39
(1,322)	1:B:53:MET:HG2	1:B:40:ILE:H	18	0.39
(1,322)	1:B:53:MET:HG3	1:B:40:ILE:H	18	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,223)	1:B:45:ARG:HA	1:B:46:ARG:HE	5	0.39
(1,20)	1:A:8:ILE:HG21	1:A:9:ILE:H	20	0.39
(1,20)	1:A:8:ILE:HG22	1:A:9:ILE:H	20	0.39
(1,20)	1:A:8:ILE:HG23	1:A:9:ILE:H	20	0.39
(1,187)	1:A:6:VAL:HG11	1:A:9:ILE:H	9	0.39
(1,187)	1:A:6:VAL:HG12	1:A:9:ILE:H	9	0.39
(1,187)	1:A:6:VAL:HG13	1:A:9:ILE:H	9	0.39
(1,187)	1:A:6:VAL:HG21	1:A:9:ILE:H	9	0.39
(1,187)	1:A:6:VAL:HG22	1:A:9:ILE:H	9	0.39
(1,187)	1:A:6:VAL:HG23	1:A:9:ILE:H	9	0.39
(2,2)	1:B:35:LYS:HA	1:B:40:ILE:HA	20	0.38
(1,207)	1:B:40:ILE:HG21	1:B:41:ILE:H	17	0.38
(1,207)	1:B:40:ILE:HG22	1:B:41:ILE:H	17	0.38
(1,207)	1:B:40:ILE:HG23	1:B:41:ILE:H	17	0.38
(1,64)	1:A:6:VAL:HB	1:A:6:VAL:H	14	0.37
(1,46)	1:A:17:LYS:HG2	1:A:18:CYS:H	7	0.37
(1,46)	1:A:17:LYS:HG3	1:A:18:CYS:H	7	0.37
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD11	20	0.37
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD12	20	0.37
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD13	20	0.37
(1,376)	1:B:38:VAL:HG11	1:A:11:CYS:H	7	0.37
(1,376)	1:B:38:VAL:HG12	1:A:11:CYS:H	7	0.37
(1,376)	1:B:38:VAL:HG13	1:A:11:CYS:H	7	0.37
(1,376)	1:B:38:VAL:HG21	1:A:11:CYS:H	7	0.37
(1,376)	1:B:38:VAL:HG22	1:A:11:CYS:H	7	0.37
(1,376)	1:B:38:VAL:HG23	1:A:11:CYS:H	7	0.37
(1,375)	1:A:6:VAL:HG11	1:B:43:CYS:H	19	0.37
(1,375)	1:A:6:VAL:HG12	1:B:43:CYS:H	19	0.37
(1,375)	1:A:6:VAL:HG13	1:B:43:CYS:H	19	0.37
(1,375)	1:A:6:VAL:HG21	1:B:43:CYS:H	19	0.37
(1,375)	1:A:6:VAL:HG22	1:B:43:CYS:H	19	0.37
(1,375)	1:A:6:VAL:HG23	1:B:43:CYS:H	19	0.37
(1,373)	1:B:52:ARG:HD2	1:B:38:VAL:H	16	0.37
(1,373)	1:B:52:ARG:HD3	1:B:38:VAL:H	16	0.37
(1,372)	1:B:38:VAL:HG11	1:B:52:ARG:HE	17	0.37
(1,372)	1:B:38:VAL:HG12	1:B:52:ARG:HE	17	0.37
(1,372)	1:B:38:VAL:HG13	1:B:52:ARG:HE	17	0.37
(1,372)	1:B:38:VAL:HG21	1:B:52:ARG:HE	17	0.37
(1,372)	1:B:38:VAL:HG22	1:B:52:ARG:HE	17	0.37
(1,372)	1:B:38:VAL:HG23	1:B:52:ARG:HE	17	0.37
(1,372)	1:B:38:VAL:HG11	1:B:52:ARG:HE	19	0.37
(1,372)	1:B:38:VAL:HG12	1:B:52:ARG:HE	19	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,372)	1:B:38:VAL:HG13	1:B:52:ARG:HE	19	0.37
(1,372)	1:B:38:VAL:HG21	1:B:52:ARG:HE	19	0.37
(1,372)	1:B:38:VAL:HG22	1:B:52:ARG:HE	19	0.37
(1,372)	1:B:38:VAL:HG23	1:B:52:ARG:HE	19	0.37
(1,359)	1:B:40:ILE:HD11	1:B:39:PRO:HD2	18	0.37
(1,359)	1:B:40:ILE:HD11	1:B:39:PRO:HD3	18	0.37
(1,359)	1:B:40:ILE:HD12	1:B:39:PRO:HD2	18	0.37
(1,359)	1:B:40:ILE:HD12	1:B:39:PRO:HD3	18	0.37
(1,359)	1:B:40:ILE:HD13	1:B:39:PRO:HD2	18	0.37
(1,359)	1:B:40:ILE:HD13	1:B:39:PRO:HD3	18	0.37
(1,330)	1:B:53:MET:HG2	1:B:42:TYR:HD1	18	0.37
(1,330)	1:B:53:MET:HG2	1:B:42:TYR:HD2	18	0.37
(1,330)	1:B:53:MET:HG3	1:B:42:TYR:HD1	18	0.37
(1,330)	1:B:53:MET:HG3	1:B:42:TYR:HD2	18	0.37
(1,322)	1:B:53:MET:HG2	1:B:40:ILE:H	17	0.37
(1,322)	1:B:53:MET:HG3	1:B:40:ILE:H	17	0.37
(1,317)	1:B:52:ARG:HD2	1:B:52:ARG:H	16	0.37
(1,317)	1:B:52:ARG:HD3	1:B:52:ARG:H	16	0.37
(1,20)	1:A:8:ILE:HG21	1:A:9:ILE:H	12	0.37
(1,20)	1:A:8:ILE:HG22	1:A:9:ILE:H	12	0.37
(1,20)	1:A:8:ILE:HG23	1:A:9:ILE:H	12	0.37
(1,2)	1:A:3:LYS:HA	1:A:4:LYS:H	12	0.37
(1,187)	1:A:6:VAL:HG11	1:A:9:ILE:H	18	0.37
(1,187)	1:A:6:VAL:HG12	1:A:9:ILE:H	18	0.37
(1,187)	1:A:6:VAL:HG13	1:A:9:ILE:H	18	0.37
(1,187)	1:A:6:VAL:HG21	1:A:9:ILE:H	18	0.37
(1,187)	1:A:6:VAL:HG22	1:A:9:ILE:H	18	0.37
(1,187)	1:A:6:VAL:HG23	1:A:9:ILE:H	18	0.37
(1,18)	1:A:6:VAL:HG11	1:A:7:PRO:HD2	5	0.37
(1,18)	1:A:6:VAL:HG11	1:A:7:PRO:HD3	5	0.37
(1,18)	1:A:6:VAL:HG12	1:A:7:PRO:HD2	5	0.37
(1,18)	1:A:6:VAL:HG12	1:A:7:PRO:HD3	5	0.37
(1,18)	1:A:6:VAL:HG13	1:A:7:PRO:HD2	5	0.37
(1,18)	1:A:6:VAL:HG13	1:A:7:PRO:HD3	5	0.37
(1,18)	1:A:6:VAL:HG21	1:A:7:PRO:HD2	5	0.37
(1,18)	1:A:6:VAL:HG21	1:A:7:PRO:HD3	5	0.37
(1,18)	1:A:6:VAL:HG22	1:A:7:PRO:HD2	5	0.37
(1,18)	1:A:6:VAL:HG22	1:A:7:PRO:HD3	5	0.37
(1,18)	1:A:6:VAL:HG23	1:A:7:PRO:HD2	5	0.37
(1,18)	1:A:6:VAL:HG23	1:A:7:PRO:HD3	5	0.37
(1,137)	1:A:20:ARG:HD2	1:A:9:ILE:H	9	0.37
(1,137)	1:A:20:ARG:HD3	1:A:9:ILE:H	9	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2)	1:B:35:LYS:HA	1:B:40:ILE:HA	7	0.36
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD11	9	0.36
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD12	9	0.36
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD13	9	0.36
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD11	18	0.36
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD12	18	0.36
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD13	18	0.36
(1,375)	1:A:6:VAL:HG11	1:B:43:CYS:H	9	0.36
(1,375)	1:A:6:VAL:HG12	1:B:43:CYS:H	9	0.36
(1,375)	1:A:6:VAL:HG13	1:B:43:CYS:H	9	0.36
(1,375)	1:A:6:VAL:HG21	1:B:43:CYS:H	9	0.36
(1,375)	1:A:6:VAL:HG22	1:B:43:CYS:H	9	0.36
(1,375)	1:A:6:VAL:HG23	1:B:43:CYS:H	9	0.36
(1,372)	1:B:38:VAL:HG11	1:B:52:ARG:HE	13	0.36
(1,372)	1:B:38:VAL:HG12	1:B:52:ARG:HE	13	0.36
(1,372)	1:B:38:VAL:HG13	1:B:52:ARG:HE	13	0.36
(1,372)	1:B:38:VAL:HG21	1:B:52:ARG:HE	13	0.36
(1,372)	1:B:38:VAL:HG22	1:B:52:ARG:HE	13	0.36
(1,372)	1:B:38:VAL:HG23	1:B:52:ARG:HE	13	0.36
(1,304)	1:B:50:CYS:HB2	1:B:50:CYS:H	10	0.36
(1,304)	1:B:50:CYS:HB3	1:B:50:CYS:H	10	0.36
(1,233)	1:B:49:LYS:HG2	1:B:50:CYS:H	9	0.36
(1,233)	1:B:49:LYS:HG3	1:B:50:CYS:H	9	0.36
(1,233)	1:B:49:LYS:HG2	1:B:50:CYS:H	17	0.36
(1,233)	1:B:49:LYS:HG3	1:B:50:CYS:H	17	0.36
(1,130)	1:A:20:ARG:HD2	1:A:20:ARG:H	8	0.36
(1,130)	1:A:20:ARG:HD3	1:A:20:ARG:H	8	0.36
(1,117)	1:A:18:CYS:HB2	1:A:18:CYS:H	3	0.36
(1,117)	1:A:18:CYS:HB3	1:A:18:CYS:H	3	0.36
(2,2)	1:B:35:LYS:HA	1:B:40:ILE:HA	18	0.35
(2,1)	1:A:3:LYS:HA	1:A:8:ILE:HA	5	0.35
(1,46)	1:A:17:LYS:HG2	1:A:18:CYS:H	13	0.35
(1,46)	1:A:17:LYS:HG3	1:A:18:CYS:H	13	0.35
(1,359)	1:B:40:ILE:HD11	1:B:39:PRO:HD2	17	0.35
(1,359)	1:B:40:ILE:HD11	1:B:39:PRO:HD3	17	0.35
(1,359)	1:B:40:ILE:HD12	1:B:39:PRO:HD2	17	0.35
(1,359)	1:B:40:ILE:HD12	1:B:39:PRO:HD3	17	0.35
(1,359)	1:B:40:ILE:HD13	1:B:39:PRO:HD2	17	0.35
(1,359)	1:B:40:ILE:HD13	1:B:39:PRO:HD3	17	0.35
(1,317)	1:B:52:ARG:HD2	1:B:52:ARG:H	6	0.35
(1,317)	1:B:52:ARG:HD3	1:B:52:ARG:H	6	0.35
(1,317)	1:B:52:ARG:HD2	1:B:52:ARG:H	15	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,317)	1:B:52:ARG:HD3	1:B:52:ARG:H	15	0.35
(1,31)	1:A:10:TYR:H	1:A:11:CYS:H	20	0.35
(1,233)	1:B:49:LYS:HG2	1:B:50:CYS:H	15	0.35
(1,233)	1:B:49:LYS:HG3	1:B:50:CYS:H	15	0.35
(1,233)	1:B:49:LYS:HG2	1:B:50:CYS:H	16	0.35
(1,233)	1:B:49:LYS:HG3	1:B:50:CYS:H	16	0.35
(1,2)	1:A:3:LYS:HA	1:A:4:LYS:H	11	0.35
(1,2)	1:A:3:LYS:HA	1:A:4:LYS:H	20	0.35
(1,187)	1:A:6:VAL:HG11	1:A:9:ILE:H	7	0.35
(1,187)	1:A:6:VAL:HG12	1:A:9:ILE:H	7	0.35
(1,187)	1:A:6:VAL:HG13	1:A:9:ILE:H	7	0.35
(1,187)	1:A:6:VAL:HG21	1:A:9:ILE:H	7	0.35
(1,187)	1:A:6:VAL:HG22	1:A:9:ILE:H	7	0.35
(1,187)	1:A:6:VAL:HG23	1:A:9:ILE:H	7	0.35
(1,187)	1:A:6:VAL:HG11	1:A:9:ILE:H	16	0.35
(1,187)	1:A:6:VAL:HG12	1:A:9:ILE:H	16	0.35
(1,187)	1:A:6:VAL:HG13	1:A:9:ILE:H	16	0.35
(1,187)	1:A:6:VAL:HG21	1:A:9:ILE:H	16	0.35
(1,187)	1:A:6:VAL:HG22	1:A:9:ILE:H	16	0.35
(1,187)	1:A:6:VAL:HG23	1:A:9:ILE:H	16	0.35
(1,185)	1:A:6:VAL:HG11	1:A:20:ARG:HE	15	0.35
(1,185)	1:A:6:VAL:HG12	1:A:20:ARG:HE	15	0.35
(1,185)	1:A:6:VAL:HG13	1:A:20:ARG:HE	15	0.35
(1,185)	1:A:6:VAL:HG21	1:A:20:ARG:HE	15	0.35
(1,185)	1:A:6:VAL:HG22	1:A:20:ARG:HE	15	0.35
(1,185)	1:A:6:VAL:HG23	1:A:20:ARG:HE	15	0.35
(1,185)	1:A:6:VAL:HG11	1:A:20:ARG:HE	16	0.35
(1,185)	1:A:6:VAL:HG12	1:A:20:ARG:HE	16	0.35
(1,185)	1:A:6:VAL:HG13	1:A:20:ARG:HE	16	0.35
(1,185)	1:A:6:VAL:HG21	1:A:20:ARG:HE	16	0.35
(1,185)	1:A:6:VAL:HG22	1:A:20:ARG:HE	16	0.35
(1,185)	1:A:6:VAL:HG23	1:A:20:ARG:HE	16	0.35
(1,164)	1:A:18:CYS:HA	1:A:11:CYS:HB2	15	0.35
(1,164)	1:A:18:CYS:HA	1:A:11:CYS:HB3	15	0.35
(1,130)	1:A:20:ARG:HD2	1:A:20:ARG:H	1	0.35
(1,130)	1:A:20:ARG:HD3	1:A:20:ARG:H	1	0.35
(1,130)	1:A:20:ARG:HD2	1:A:20:ARG:H	17	0.35
(1,130)	1:A:20:ARG:HD3	1:A:20:ARG:H	17	0.35
(1,130)	1:A:20:ARG:HD2	1:A:20:ARG:H	20	0.35
(1,130)	1:A:20:ARG:HD3	1:A:20:ARG:H	20	0.35
(2,1)	1:A:3:LYS:HA	1:A:8:ILE:HA	9	0.34
(2,1)	1:A:3:LYS:HA	1:A:8:ILE:HA	18	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,46)	1:A:17:LYS:HG2	1:A:18:CYS:H	10	0.34
(1,46)	1:A:17:LYS:HG3	1:A:18:CYS:H	10	0.34
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD11	19	0.34
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD12	19	0.34
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD13	19	0.34
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD11	7	0.34
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD12	7	0.34
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD13	7	0.34
(1,372)	1:B:38:VAL:HG11	1:B:52:ARG:HE	8	0.34
(1,372)	1:B:38:VAL:HG12	1:B:52:ARG:HE	8	0.34
(1,372)	1:B:38:VAL:HG13	1:B:52:ARG:HE	8	0.34
(1,372)	1:B:38:VAL:HG21	1:B:52:ARG:HE	8	0.34
(1,372)	1:B:38:VAL:HG22	1:B:52:ARG:HE	8	0.34
(1,372)	1:B:38:VAL:HG23	1:B:52:ARG:HE	8	0.34
(1,337)	1:B:41:ILE:HG12	1:B:52:ARG:HE	17	0.34
(1,337)	1:B:41:ILE:HG13	1:B:52:ARG:HE	17	0.34
(1,317)	1:B:52:ARG:HD2	1:B:52:ARG:H	2	0.34
(1,317)	1:B:52:ARG:HD3	1:B:52:ARG:H	2	0.34
(1,317)	1:B:52:ARG:HD2	1:B:52:ARG:H	5	0.34
(1,317)	1:B:52:ARG:HD3	1:B:52:ARG:H	5	0.34
(1,317)	1:B:52:ARG:HD2	1:B:52:ARG:H	10	0.34
(1,317)	1:B:52:ARG:HD3	1:B:52:ARG:H	10	0.34
(1,317)	1:B:52:ARG:HD2	1:B:52:ARG:H	13	0.34
(1,317)	1:B:52:ARG:HD3	1:B:52:ARG:H	13	0.34
(1,304)	1:B:50:CYS:HB2	1:B:50:CYS:H	19	0.34
(1,304)	1:B:50:CYS:HB3	1:B:50:CYS:H	19	0.34
(1,301)	1:B:49:LYS:HD2	1:B:49:LYS:H	14	0.34
(1,301)	1:B:49:LYS:HD3	1:B:49:LYS:H	14	0.34
(1,233)	1:B:49:LYS:HG2	1:B:50:CYS:H	4	0.34
(1,233)	1:B:49:LYS:HG3	1:B:50:CYS:H	4	0.34
(1,233)	1:B:49:LYS:HG2	1:B:50:CYS:H	6	0.34
(1,233)	1:B:49:LYS:HG3	1:B:50:CYS:H	6	0.34
(1,233)	1:B:49:LYS:HG2	1:B:50:CYS:H	18	0.34
(1,233)	1:B:49:LYS:HG3	1:B:50:CYS:H	18	0.34
(1,222)	1:B:44:ASN:HD21	1:B:45:ARG:H	14	0.34
(1,222)	1:B:44:ASN:HD22	1:B:45:ARG:H	14	0.34
(1,187)	1:A:6:VAL:HG11	1:A:9:ILE:H	2	0.34
(1,187)	1:A:6:VAL:HG12	1:A:9:ILE:H	2	0.34
(1,187)	1:A:6:VAL:HG13	1:A:9:ILE:H	2	0.34
(1,187)	1:A:6:VAL:HG21	1:A:9:ILE:H	2	0.34
(1,187)	1:A:6:VAL:HG22	1:A:9:ILE:H	2	0.34
(1,187)	1:A:6:VAL:HG23	1:A:9:ILE:H	2	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,187)	1:A:6:VAL:HG11	1:A:9:ILE:H	6	0.34
(1,187)	1:A:6:VAL:HG12	1:A:9:ILE:H	6	0.34
(1,187)	1:A:6:VAL:HG13	1:A:9:ILE:H	6	0.34
(1,187)	1:A:6:VAL:HG21	1:A:9:ILE:H	6	0.34
(1,187)	1:A:6:VAL:HG22	1:A:9:ILE:H	6	0.34
(1,187)	1:A:6:VAL:HG23	1:A:9:ILE:H	6	0.34
(1,185)	1:A:6:VAL:HG11	1:A:20:ARG:HE	12	0.34
(1,185)	1:A:6:VAL:HG12	1:A:20:ARG:HE	12	0.34
(1,185)	1:A:6:VAL:HG13	1:A:20:ARG:HE	12	0.34
(1,185)	1:A:6:VAL:HG21	1:A:20:ARG:HE	12	0.34
(1,185)	1:A:6:VAL:HG22	1:A:20:ARG:HE	12	0.34
(1,185)	1:A:6:VAL:HG23	1:A:20:ARG:HE	12	0.34
(1,185)	1:A:6:VAL:HG11	1:A:20:ARG:HE	13	0.34
(1,185)	1:A:6:VAL:HG12	1:A:20:ARG:HE	13	0.34
(1,185)	1:A:6:VAL:HG13	1:A:20:ARG:HE	13	0.34
(1,185)	1:A:6:VAL:HG21	1:A:20:ARG:HE	13	0.34
(1,185)	1:A:6:VAL:HG22	1:A:20:ARG:HE	13	0.34
(1,185)	1:A:6:VAL:HG23	1:A:20:ARG:HE	13	0.34
(1,181)	1:A:6:VAL:HG11	1:A:3:LYS:H	14	0.34
(1,181)	1:A:6:VAL:HG12	1:A:3:LYS:H	14	0.34
(1,181)	1:A:6:VAL:HG13	1:A:3:LYS:H	14	0.34
(1,181)	1:A:6:VAL:HG21	1:A:3:LYS:H	14	0.34
(1,181)	1:A:6:VAL:HG22	1:A:3:LYS:H	14	0.34
(1,181)	1:A:6:VAL:HG23	1:A:3:LYS:H	14	0.34
(1,130)	1:A:20:ARG:HD2	1:A:20:ARG:H	3	0.34
(1,130)	1:A:20:ARG:HD3	1:A:20:ARG:H	3	0.34
(1,130)	1:A:20:ARG:HD2	1:A:20:ARG:H	6	0.34
(1,130)	1:A:20:ARG:HD3	1:A:20:ARG:H	6	0.34
(1,130)	1:A:20:ARG:HD2	1:A:20:ARG:H	15	0.34
(1,130)	1:A:20:ARG:HD3	1:A:20:ARG:H	15	0.34
(1,117)	1:A:18:CYS:HB2	1:A:18:CYS:H	18	0.34
(1,117)	1:A:18:CYS:HB3	1:A:18:CYS:H	18	0.34
(1,46)	1:A:17:LYS:HG2	1:A:18:CYS:H	2	0.33
(1,46)	1:A:17:LYS:HG3	1:A:18:CYS:H	2	0.33
(1,374)	1:B:38:VAL:HG11	1:B:41:ILE:H	15	0.33
(1,374)	1:B:38:VAL:HG12	1:B:41:ILE:H	15	0.33
(1,374)	1:B:38:VAL:HG13	1:B:41:ILE:H	15	0.33
(1,374)	1:B:38:VAL:HG21	1:B:41:ILE:H	15	0.33
(1,374)	1:B:38:VAL:HG22	1:B:41:ILE:H	15	0.33
(1,374)	1:B:38:VAL:HG23	1:B:41:ILE:H	15	0.33
(1,372)	1:B:38:VAL:HG11	1:B:52:ARG:HE	1	0.33
(1,372)	1:B:38:VAL:HG12	1:B:52:ARG:HE	1	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,372)	1:B:38:VAL:HG13	1:B:52:ARG:HE	1	0.33
(1,372)	1:B:38:VAL:HG21	1:B:52:ARG:HE	1	0.33
(1,372)	1:B:38:VAL:HG22	1:B:52:ARG:HE	1	0.33
(1,372)	1:B:38:VAL:HG23	1:B:52:ARG:HE	1	0.33
(1,372)	1:B:38:VAL:HG11	1:B:52:ARG:HE	4	0.33
(1,372)	1:B:38:VAL:HG12	1:B:52:ARG:HE	4	0.33
(1,372)	1:B:38:VAL:HG13	1:B:52:ARG:HE	4	0.33
(1,372)	1:B:38:VAL:HG21	1:B:52:ARG:HE	4	0.33
(1,372)	1:B:38:VAL:HG22	1:B:52:ARG:HE	4	0.33
(1,372)	1:B:38:VAL:HG23	1:B:52:ARG:HE	4	0.33
(1,372)	1:B:38:VAL:HG11	1:B:52:ARG:HE	9	0.33
(1,372)	1:B:38:VAL:HG12	1:B:52:ARG:HE	9	0.33
(1,372)	1:B:38:VAL:HG13	1:B:52:ARG:HE	9	0.33
(1,372)	1:B:38:VAL:HG21	1:B:52:ARG:HE	9	0.33
(1,372)	1:B:38:VAL:HG22	1:B:52:ARG:HE	9	0.33
(1,372)	1:B:38:VAL:HG23	1:B:52:ARG:HE	9	0.33
(1,372)	1:B:38:VAL:HG11	1:B:52:ARG:HE	14	0.33
(1,372)	1:B:38:VAL:HG12	1:B:52:ARG:HE	14	0.33
(1,372)	1:B:38:VAL:HG13	1:B:52:ARG:HE	14	0.33
(1,372)	1:B:38:VAL:HG21	1:B:52:ARG:HE	14	0.33
(1,372)	1:B:38:VAL:HG22	1:B:52:ARG:HE	14	0.33
(1,372)	1:B:38:VAL:HG23	1:B:52:ARG:HE	14	0.33
(1,371)	1:B:38:VAL:HG11	1:B:53:MET:H	19	0.33
(1,371)	1:B:38:VAL:HG12	1:B:53:MET:H	19	0.33
(1,371)	1:B:38:VAL:HG13	1:B:53:MET:H	19	0.33
(1,371)	1:B:38:VAL:HG21	1:B:53:MET:H	19	0.33
(1,371)	1:B:38:VAL:HG22	1:B:53:MET:H	19	0.33
(1,371)	1:B:38:VAL:HG23	1:B:53:MET:H	19	0.33
(1,317)	1:B:52:ARG:HD2	1:B:52:ARG:H	1	0.33
(1,317)	1:B:52:ARG:HD3	1:B:52:ARG:H	1	0.33
(1,317)	1:B:52:ARG:HD2	1:B:52:ARG:H	3	0.33
(1,317)	1:B:52:ARG:HD3	1:B:52:ARG:H	3	0.33
(1,317)	1:B:52:ARG:HD2	1:B:52:ARG:H	4	0.33
(1,317)	1:B:52:ARG:HD3	1:B:52:ARG:H	4	0.33
(1,317)	1:B:52:ARG:HD2	1:B:52:ARG:H	7	0.33
(1,317)	1:B:52:ARG:HD3	1:B:52:ARG:H	7	0.33
(1,317)	1:B:52:ARG:HD2	1:B:52:ARG:H	9	0.33
(1,317)	1:B:52:ARG:HD3	1:B:52:ARG:H	9	0.33
(1,233)	1:B:49:LYS:HG2	1:B:50:CYS:H	3	0.33
(1,233)	1:B:49:LYS:HG3	1:B:50:CYS:H	3	0.33
(1,233)	1:B:49:LYS:HG2	1:B:50:CYS:H	5	0.33
(1,233)	1:B:49:LYS:HG3	1:B:50:CYS:H	5	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,233)	1:B:49:LYS:HG2	1:B:50:CYS:H	12	0.33
(1,233)	1:B:49:LYS:HG3	1:B:50:CYS:H	12	0.33
(1,2)	1:A:3:LYS:HA	1:A:4:LYS:H	5	0.33
(1,187)	1:A:6:VAL:HG11	1:A:9:ILE:H	4	0.33
(1,187)	1:A:6:VAL:HG12	1:A:9:ILE:H	4	0.33
(1,187)	1:A:6:VAL:HG13	1:A:9:ILE:H	4	0.33
(1,187)	1:A:6:VAL:HG21	1:A:9:ILE:H	4	0.33
(1,187)	1:A:6:VAL:HG22	1:A:9:ILE:H	4	0.33
(1,187)	1:A:6:VAL:HG23	1:A:9:ILE:H	4	0.33
(1,187)	1:A:6:VAL:HG11	1:A:9:ILE:H	11	0.33
(1,187)	1:A:6:VAL:HG12	1:A:9:ILE:H	11	0.33
(1,187)	1:A:6:VAL:HG13	1:A:9:ILE:H	11	0.33
(1,187)	1:A:6:VAL:HG21	1:A:9:ILE:H	11	0.33
(1,187)	1:A:6:VAL:HG22	1:A:9:ILE:H	11	0.33
(1,187)	1:A:6:VAL:HG23	1:A:9:ILE:H	11	0.33
(1,187)	1:A:6:VAL:HG11	1:A:9:ILE:H	15	0.33
(1,187)	1:A:6:VAL:HG12	1:A:9:ILE:H	15	0.33
(1,187)	1:A:6:VAL:HG13	1:A:9:ILE:H	15	0.33
(1,187)	1:A:6:VAL:HG21	1:A:9:ILE:H	15	0.33
(1,187)	1:A:6:VAL:HG22	1:A:9:ILE:H	15	0.33
(1,187)	1:A:6:VAL:HG23	1:A:9:ILE:H	15	0.33
(1,187)	1:A:6:VAL:HG11	1:A:9:ILE:H	17	0.33
(1,187)	1:A:6:VAL:HG12	1:A:9:ILE:H	17	0.33
(1,187)	1:A:6:VAL:HG13	1:A:9:ILE:H	17	0.33
(1,187)	1:A:6:VAL:HG21	1:A:9:ILE:H	17	0.33
(1,187)	1:A:6:VAL:HG22	1:A:9:ILE:H	17	0.33
(1,187)	1:A:6:VAL:HG23	1:A:9:ILE:H	17	0.33
(1,187)	1:A:6:VAL:HG11	1:A:9:ILE:H	19	0.33
(1,187)	1:A:6:VAL:HG12	1:A:9:ILE:H	19	0.33
(1,187)	1:A:6:VAL:HG13	1:A:9:ILE:H	19	0.33
(1,187)	1:A:6:VAL:HG21	1:A:9:ILE:H	19	0.33
(1,187)	1:A:6:VAL:HG22	1:A:9:ILE:H	19	0.33
(1,187)	1:A:6:VAL:HG23	1:A:9:ILE:H	19	0.33
(1,185)	1:A:6:VAL:HG11	1:A:20:ARG:HE	2	0.33
(1,185)	1:A:6:VAL:HG12	1:A:20:ARG:HE	2	0.33
(1,185)	1:A:6:VAL:HG13	1:A:20:ARG:HE	2	0.33
(1,185)	1:A:6:VAL:HG21	1:A:20:ARG:HE	2	0.33
(1,185)	1:A:6:VAL:HG22	1:A:20:ARG:HE	2	0.33
(1,185)	1:A:6:VAL:HG23	1:A:20:ARG:HE	2	0.33
(1,185)	1:A:6:VAL:HG11	1:A:20:ARG:HE	4	0.33
(1,185)	1:A:6:VAL:HG12	1:A:20:ARG:HE	4	0.33
(1,185)	1:A:6:VAL:HG13	1:A:20:ARG:HE	4	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,185)	1:A:6:VAL:HG21	1:A:20:ARG:HE	4	0.33
(1,185)	1:A:6:VAL:HG22	1:A:20:ARG:HE	4	0.33
(1,185)	1:A:6:VAL:HG23	1:A:20:ARG:HE	4	0.33
(1,185)	1:A:6:VAL:HG11	1:A:20:ARG:HE	6	0.33
(1,185)	1:A:6:VAL:HG12	1:A:20:ARG:HE	6	0.33
(1,185)	1:A:6:VAL:HG13	1:A:20:ARG:HE	6	0.33
(1,185)	1:A:6:VAL:HG21	1:A:20:ARG:HE	6	0.33
(1,185)	1:A:6:VAL:HG22	1:A:20:ARG:HE	6	0.33
(1,185)	1:A:6:VAL:HG23	1:A:20:ARG:HE	6	0.33
(1,185)	1:A:6:VAL:HG11	1:A:20:ARG:HE	7	0.33
(1,185)	1:A:6:VAL:HG12	1:A:20:ARG:HE	7	0.33
(1,185)	1:A:6:VAL:HG13	1:A:20:ARG:HE	7	0.33
(1,185)	1:A:6:VAL:HG21	1:A:20:ARG:HE	7	0.33
(1,185)	1:A:6:VAL:HG22	1:A:20:ARG:HE	7	0.33
(1,185)	1:A:6:VAL:HG23	1:A:20:ARG:HE	7	0.33
(1,135)	1:A:21:MET:HG2	1:A:8:ILE:H	9	0.33
(1,135)	1:A:21:MET:HG3	1:A:8:ILE:H	9	0.33
(1,130)	1:A:20:ARG:HD2	1:A:20:ARG:H	10	0.33
(1,130)	1:A:20:ARG:HD3	1:A:20:ARG:H	10	0.33
(2,2)	1:B:35:LYS:HA	1:B:40:ILE:HA	1	0.32
(2,2)	1:B:35:LYS:HA	1:B:40:ILE:HA	13	0.32
(1,47)	1:A:19:GLN:HE21	1:A:20:ARG:H	15	0.32
(1,47)	1:A:19:GLN:HE22	1:A:20:ARG:H	15	0.32
(1,372)	1:B:38:VAL:HG11	1:B:52:ARG:HE	2	0.32
(1,372)	1:B:38:VAL:HG12	1:B:52:ARG:HE	2	0.32
(1,372)	1:B:38:VAL:HG13	1:B:52:ARG:HE	2	0.32
(1,372)	1:B:38:VAL:HG21	1:B:52:ARG:HE	2	0.32
(1,372)	1:B:38:VAL:HG22	1:B:52:ARG:HE	2	0.32
(1,372)	1:B:38:VAL:HG23	1:B:52:ARG:HE	2	0.32
(1,372)	1:B:38:VAL:HG11	1:B:52:ARG:HE	3	0.32
(1,372)	1:B:38:VAL:HG12	1:B:52:ARG:HE	3	0.32
(1,372)	1:B:38:VAL:HG13	1:B:52:ARG:HE	3	0.32
(1,372)	1:B:38:VAL:HG21	1:B:52:ARG:HE	3	0.32
(1,372)	1:B:38:VAL:HG22	1:B:52:ARG:HE	3	0.32
(1,372)	1:B:38:VAL:HG23	1:B:52:ARG:HE	3	0.32
(1,372)	1:B:38:VAL:HG11	1:B:52:ARG:HE	12	0.32
(1,372)	1:B:38:VAL:HG12	1:B:52:ARG:HE	12	0.32
(1,372)	1:B:38:VAL:HG13	1:B:52:ARG:HE	12	0.32
(1,372)	1:B:38:VAL:HG21	1:B:52:ARG:HE	12	0.32
(1,372)	1:B:38:VAL:HG22	1:B:52:ARG:HE	12	0.32
(1,372)	1:B:38:VAL:HG23	1:B:52:ARG:HE	12	0.32
(1,322)	1:B:53:MET:HG2	1:B:40:ILE:H	16	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,322)	1:B:53:MET:HG3	1:B:40:ILE:H	16	0.32
(1,317)	1:B:52:ARG:HD2	1:B:52:ARG:H	11	0.32
(1,317)	1:B:52:ARG:HD3	1:B:52:ARG:H	11	0.32
(1,317)	1:B:52:ARG:HD2	1:B:52:ARG:H	12	0.32
(1,317)	1:B:52:ARG:HD3	1:B:52:ARG:H	12	0.32
(1,317)	1:B:52:ARG:HD2	1:B:52:ARG:H	14	0.32
(1,317)	1:B:52:ARG:HD3	1:B:52:ARG:H	14	0.32
(1,317)	1:B:52:ARG:HD2	1:B:52:ARG:H	18	0.32
(1,317)	1:B:52:ARG:HD3	1:B:52:ARG:H	18	0.32
(1,317)	1:B:52:ARG:HD2	1:B:52:ARG:H	20	0.32
(1,317)	1:B:52:ARG:HD3	1:B:52:ARG:H	20	0.32
(1,189)	1:B:35:LYS:HA	1:B:36:LYS:H	13	0.32
(1,187)	1:A:6:VAL:HG11	1:A:9:ILE:H	1	0.32
(1,187)	1:A:6:VAL:HG12	1:A:9:ILE:H	1	0.32
(1,187)	1:A:6:VAL:HG13	1:A:9:ILE:H	1	0.32
(1,187)	1:A:6:VAL:HG21	1:A:9:ILE:H	1	0.32
(1,187)	1:A:6:VAL:HG22	1:A:9:ILE:H	1	0.32
(1,187)	1:A:6:VAL:HG23	1:A:9:ILE:H	1	0.32
(1,187)	1:A:6:VAL:HG11	1:A:9:ILE:H	3	0.32
(1,187)	1:A:6:VAL:HG12	1:A:9:ILE:H	3	0.32
(1,187)	1:A:6:VAL:HG13	1:A:9:ILE:H	3	0.32
(1,187)	1:A:6:VAL:HG21	1:A:9:ILE:H	3	0.32
(1,187)	1:A:6:VAL:HG22	1:A:9:ILE:H	3	0.32
(1,187)	1:A:6:VAL:HG23	1:A:9:ILE:H	3	0.32
(1,187)	1:A:6:VAL:HG11	1:A:9:ILE:H	10	0.32
(1,187)	1:A:6:VAL:HG12	1:A:9:ILE:H	10	0.32
(1,187)	1:A:6:VAL:HG13	1:A:9:ILE:H	10	0.32
(1,187)	1:A:6:VAL:HG21	1:A:9:ILE:H	10	0.32
(1,187)	1:A:6:VAL:HG22	1:A:9:ILE:H	10	0.32
(1,187)	1:A:6:VAL:HG23	1:A:9:ILE:H	10	0.32
(1,187)	1:A:6:VAL:HG11	1:A:9:ILE:H	13	0.32
(1,187)	1:A:6:VAL:HG12	1:A:9:ILE:H	13	0.32
(1,187)	1:A:6:VAL:HG13	1:A:9:ILE:H	13	0.32
(1,187)	1:A:6:VAL:HG21	1:A:9:ILE:H	13	0.32
(1,187)	1:A:6:VAL:HG22	1:A:9:ILE:H	13	0.32
(1,187)	1:A:6:VAL:HG23	1:A:9:ILE:H	13	0.32
(1,135)	1:A:21:MET:HG2	1:A:8:ILE:H	4	0.32
(1,135)	1:A:21:MET:HG3	1:A:8:ILE:H	4	0.32
(1,130)	1:A:20:ARG:HD2	1:A:20:ARG:H	2	0.32
(1,130)	1:A:20:ARG:HD3	1:A:20:ARG:H	2	0.32
(1,130)	1:A:20:ARG:HD2	1:A:20:ARG:H	4	0.32
(1,130)	1:A:20:ARG:HD3	1:A:20:ARG:H	4	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,130)	1:A:20:ARG:HD2	1:A:20:ARG:H	7	0.32
(1,130)	1:A:20:ARG:HD3	1:A:20:ARG:H	7	0.32
(1,130)	1:A:20:ARG:HD2	1:A:20:ARG:H	13	0.32
(1,130)	1:A:20:ARG:HD3	1:A:20:ARG:H	13	0.32
(1,130)	1:A:20:ARG:HD2	1:A:20:ARG:H	16	0.32
(1,130)	1:A:20:ARG:HD3	1:A:20:ARG:H	16	0.32
(1,117)	1:A:18:CYS:HB2	1:A:18:CYS:H	12	0.32
(1,117)	1:A:18:CYS:HB3	1:A:18:CYS:H	12	0.32
(1,46)	1:A:17:LYS:HG2	1:A:18:CYS:H	4	0.31
(1,46)	1:A:17:LYS:HG3	1:A:18:CYS:H	4	0.31
(1,46)	1:A:17:LYS:HG2	1:A:18:CYS:H	5	0.31
(1,46)	1:A:17:LYS:HG3	1:A:18:CYS:H	5	0.31
(1,46)	1:A:17:LYS:HG2	1:A:18:CYS:H	9	0.31
(1,46)	1:A:17:LYS:HG3	1:A:18:CYS:H	9	0.31
(1,46)	1:A:17:LYS:HG2	1:A:18:CYS:H	20	0.31
(1,46)	1:A:17:LYS:HG3	1:A:18:CYS:H	20	0.31
(1,372)	1:B:38:VAL:HG11	1:B:52:ARG:HE	5	0.31
(1,372)	1:B:38:VAL:HG12	1:B:52:ARG:HE	5	0.31
(1,372)	1:B:38:VAL:HG13	1:B:52:ARG:HE	5	0.31
(1,372)	1:B:38:VAL:HG21	1:B:52:ARG:HE	5	0.31
(1,372)	1:B:38:VAL:HG22	1:B:52:ARG:HE	5	0.31
(1,372)	1:B:38:VAL:HG23	1:B:52:ARG:HE	5	0.31
(1,372)	1:B:38:VAL:HG11	1:B:52:ARG:HE	10	0.31
(1,372)	1:B:38:VAL:HG12	1:B:52:ARG:HE	10	0.31
(1,372)	1:B:38:VAL:HG13	1:B:52:ARG:HE	10	0.31
(1,372)	1:B:38:VAL:HG21	1:B:52:ARG:HE	10	0.31
(1,372)	1:B:38:VAL:HG22	1:B:52:ARG:HE	10	0.31
(1,372)	1:B:38:VAL:HG23	1:B:52:ARG:HE	10	0.31
(1,372)	1:B:38:VAL:HG11	1:B:52:ARG:HE	11	0.31
(1,372)	1:B:38:VAL:HG12	1:B:52:ARG:HE	11	0.31
(1,372)	1:B:38:VAL:HG13	1:B:52:ARG:HE	11	0.31
(1,372)	1:B:38:VAL:HG21	1:B:52:ARG:HE	11	0.31
(1,372)	1:B:38:VAL:HG22	1:B:52:ARG:HE	11	0.31
(1,372)	1:B:38:VAL:HG23	1:B:52:ARG:HE	11	0.31
(1,322)	1:B:53:MET:HG2	1:B:40:ILE:H	13	0.31
(1,322)	1:B:53:MET:HG3	1:B:40:ILE:H	13	0.31
(1,317)	1:B:52:ARG:HD2	1:B:52:ARG:H	8	0.31
(1,317)	1:B:52:ARG:HD3	1:B:52:ARG:H	8	0.31
(1,218)	1:B:42:TYR:H	1:B:43:CYS:H	11	0.31
(1,20)	1:A:8:ILE:HG21	1:A:9:ILE:H	14	0.31
(1,20)	1:A:8:ILE:HG22	1:A:9:ILE:H	14	0.31
(1,20)	1:A:8:ILE:HG23	1:A:9:ILE:H	14	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2)	1:A:3:LYS:HA	1:A:4:LYS:H	14	0.31
(1,189)	1:B:35:LYS:HA	1:B:36:LYS:H	6	0.31
(1,185)	1:A:6:VAL:HG11	1:A:20:ARG:HE	17	0.31
(1,185)	1:A:6:VAL:HG12	1:A:20:ARG:HE	17	0.31
(1,185)	1:A:6:VAL:HG13	1:A:20:ARG:HE	17	0.31
(1,185)	1:A:6:VAL:HG21	1:A:20:ARG:HE	17	0.31
(1,185)	1:A:6:VAL:HG22	1:A:20:ARG:HE	17	0.31
(1,185)	1:A:6:VAL:HG23	1:A:20:ARG:HE	17	0.31
(1,153)	1:A:8:ILE:H	1:A:21:MET:H	8	0.31
(1,113)	1:A:17:LYS:HB2	1:A:17:LYS:H	3	0.31
(1,113)	1:A:17:LYS:HB3	1:A:17:LYS:H	3	0.31
(1,64)	1:A:6:VAL:HB	1:A:6:VAL:H	15	0.3
(1,46)	1:A:17:LYS:HG2	1:A:18:CYS:H	11	0.3
(1,46)	1:A:17:LYS:HG3	1:A:18:CYS:H	11	0.3
(1,374)	1:B:38:VAL:HG11	1:B:41:ILE:H	6	0.3
(1,374)	1:B:38:VAL:HG12	1:B:41:ILE:H	6	0.3
(1,374)	1:B:38:VAL:HG13	1:B:41:ILE:H	6	0.3
(1,374)	1:B:38:VAL:HG21	1:B:41:ILE:H	6	0.3
(1,374)	1:B:38:VAL:HG22	1:B:41:ILE:H	6	0.3
(1,374)	1:B:38:VAL:HG23	1:B:41:ILE:H	6	0.3
(1,368)	1:B:38:VAL:HG11	1:B:35:LYS:H	16	0.3
(1,368)	1:B:38:VAL:HG12	1:B:35:LYS:H	16	0.3
(1,368)	1:B:38:VAL:HG13	1:B:35:LYS:H	16	0.3
(1,368)	1:B:38:VAL:HG21	1:B:35:LYS:H	16	0.3
(1,368)	1:B:38:VAL:HG22	1:B:35:LYS:H	16	0.3
(1,368)	1:B:38:VAL:HG23	1:B:35:LYS:H	16	0.3
(1,341)	1:B:40:ILE:HD11	1:B:53:MET:H	16	0.3
(1,341)	1:B:40:ILE:HD12	1:B:53:MET:H	16	0.3
(1,341)	1:B:40:ILE:HD13	1:B:53:MET:H	16	0.3
(1,324)	1:B:52:ARG:HD2	1:B:41:ILE:H	18	0.3
(1,324)	1:B:52:ARG:HD3	1:B:41:ILE:H	18	0.3
(1,233)	1:B:49:LYS:HG2	1:B:50:CYS:H	8	0.3
(1,233)	1:B:49:LYS:HG3	1:B:50:CYS:H	8	0.3
(1,233)	1:B:49:LYS:HG2	1:B:50:CYS:H	13	0.3
(1,233)	1:B:49:LYS:HG3	1:B:50:CYS:H	13	0.3
(1,212)	1:B:41:ILE:HA	1:B:42:TYR:HD1	18	0.3
(1,212)	1:B:41:ILE:HA	1:B:42:TYR:HD2	18	0.3
(1,19)	1:A:7:PRO:HB2	1:A:8:ILE:H	5	0.3
(1,19)	1:A:7:PRO:HB3	1:A:8:ILE:H	5	0.3
(1,19)	1:A:7:PRO:HB2	1:A:8:ILE:H	9	0.3
(1,19)	1:A:7:PRO:HB3	1:A:8:ILE:H	9	0.3
(1,19)	1:A:7:PRO:HB2	1:A:8:ILE:H	11	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,19)	1:A:7:PRO:HB3	1:A:8:ILE:H	11	0.3
(1,19)	1:A:7:PRO:HB2	1:A:8:ILE:H	12	0.3
(1,19)	1:A:7:PRO:HB3	1:A:8:ILE:H	12	0.3
(1,19)	1:A:7:PRO:HB2	1:A:8:ILE:H	18	0.3
(1,19)	1:A:7:PRO:HB3	1:A:8:ILE:H	18	0.3
(1,19)	1:A:7:PRO:HB2	1:A:8:ILE:H	19	0.3
(1,19)	1:A:7:PRO:HB3	1:A:8:ILE:H	19	0.3
(1,19)	1:A:7:PRO:HB2	1:A:8:ILE:H	20	0.3
(1,19)	1:A:7:PRO:HB3	1:A:8:ILE:H	20	0.3
(1,189)	1:B:35:LYS:HA	1:B:36:LYS:H	16	0.3
(1,185)	1:A:6:VAL:HG11	1:A:20:ARG:HE	1	0.3
(1,185)	1:A:6:VAL:HG12	1:A:20:ARG:HE	1	0.3
(1,185)	1:A:6:VAL:HG13	1:A:20:ARG:HE	1	0.3
(1,185)	1:A:6:VAL:HG21	1:A:20:ARG:HE	1	0.3
(1,185)	1:A:6:VAL:HG22	1:A:20:ARG:HE	1	0.3
(1,185)	1:A:6:VAL:HG23	1:A:20:ARG:HE	1	0.3
(1,185)	1:A:6:VAL:HG11	1:A:20:ARG:HE	3	0.3
(1,185)	1:A:6:VAL:HG12	1:A:20:ARG:HE	3	0.3
(1,185)	1:A:6:VAL:HG13	1:A:20:ARG:HE	3	0.3
(1,185)	1:A:6:VAL:HG21	1:A:20:ARG:HE	3	0.3
(1,185)	1:A:6:VAL:HG22	1:A:20:ARG:HE	3	0.3
(1,185)	1:A:6:VAL:HG23	1:A:20:ARG:HE	3	0.3
(1,185)	1:A:6:VAL:HG11	1:A:20:ARG:HE	10	0.3
(1,185)	1:A:6:VAL:HG12	1:A:20:ARG:HE	10	0.3
(1,185)	1:A:6:VAL:HG13	1:A:20:ARG:HE	10	0.3
(1,185)	1:A:6:VAL:HG21	1:A:20:ARG:HE	10	0.3
(1,185)	1:A:6:VAL:HG22	1:A:20:ARG:HE	10	0.3
(1,185)	1:A:6:VAL:HG23	1:A:20:ARG:HE	10	0.3
(1,173)	1:A:9:ILE:HG21	1:A:8:ILE:H	5	0.3
(1,173)	1:A:9:ILE:HG22	1:A:8:ILE:H	5	0.3
(1,173)	1:A:9:ILE:HG23	1:A:8:ILE:H	5	0.3
(1,166)	1:A:11:CYS:HA	1:A:17:LYS:H	14	0.3
(2,1)	1:A:3:LYS:HA	1:A:8:ILE:HA	10	0.29
(1,64)	1:A:6:VAL:HB	1:A:6:VAL:H	1	0.29
(1,64)	1:A:6:VAL:HB	1:A:6:VAL:H	17	0.29
(1,46)	1:A:17:LYS:HG2	1:A:18:CYS:H	17	0.29
(1,46)	1:A:17:LYS:HG3	1:A:18:CYS:H	17	0.29
(1,39)	1:A:14:ARG:HB2	1:A:15:THR:H	1	0.29
(1,39)	1:A:14:ARG:HB3	1:A:15:THR:H	1	0.29
(1,39)	1:A:14:ARG:HB2	1:A:15:THR:H	9	0.29
(1,39)	1:A:14:ARG:HB3	1:A:15:THR:H	9	0.29
(1,39)	1:A:14:ARG:HB2	1:A:15:THR:H	16	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,39)	1:A:14:ARG:HB3	1:A:15:THR:H	16	0.29
(1,347)	1:B:43:CYS:HA	1:B:51:GLN:H	15	0.29
(1,325)	1:B:50:CYS:HA	1:B:42:TYR:H	19	0.29
(1,31)	1:A:10:TYR:H	1:A:11:CYS:H	16	0.29
(1,233)	1:B:49:LYS:HG2	1:B:50:CYS:H	11	0.29
(1,233)	1:B:49:LYS:HG3	1:B:50:CYS:H	11	0.29
(1,226)	1:B:46:ARG:HB2	1:B:47:THR:H	1	0.29
(1,226)	1:B:46:ARG:HB3	1:B:47:THR:H	1	0.29
(1,19)	1:A:7:PRO:HB2	1:A:8:ILE:H	1	0.29
(1,19)	1:A:7:PRO:HB3	1:A:8:ILE:H	1	0.29
(1,19)	1:A:7:PRO:HB2	1:A:8:ILE:H	2	0.29
(1,19)	1:A:7:PRO:HB3	1:A:8:ILE:H	2	0.29
(1,19)	1:A:7:PRO:HB2	1:A:8:ILE:H	3	0.29
(1,19)	1:A:7:PRO:HB3	1:A:8:ILE:H	3	0.29
(1,19)	1:A:7:PRO:HB2	1:A:8:ILE:H	6	0.29
(1,19)	1:A:7:PRO:HB3	1:A:8:ILE:H	6	0.29
(1,19)	1:A:7:PRO:HB2	1:A:8:ILE:H	7	0.29
(1,19)	1:A:7:PRO:HB3	1:A:8:ILE:H	7	0.29
(1,19)	1:A:7:PRO:HB2	1:A:8:ILE:H	8	0.29
(1,19)	1:A:7:PRO:HB3	1:A:8:ILE:H	8	0.29
(1,19)	1:A:7:PRO:HB2	1:A:8:ILE:H	10	0.29
(1,19)	1:A:7:PRO:HB3	1:A:8:ILE:H	10	0.29
(1,19)	1:A:7:PRO:HB2	1:A:8:ILE:H	13	0.29
(1,19)	1:A:7:PRO:HB3	1:A:8:ILE:H	13	0.29
(1,19)	1:A:7:PRO:HB2	1:A:8:ILE:H	15	0.29
(1,19)	1:A:7:PRO:HB3	1:A:8:ILE:H	15	0.29
(1,19)	1:A:7:PRO:HB2	1:A:8:ILE:H	17	0.29
(1,19)	1:A:7:PRO:HB3	1:A:8:ILE:H	17	0.29
(1,189)	1:B:35:LYS:HA	1:B:36:LYS:H	15	0.29
(1,138)	1:A:18:CYS:HA	1:A:10:TYR:H	12	0.29
(1,135)	1:A:21:MET:HG2	1:A:8:ILE:H	8	0.29
(1,135)	1:A:21:MET:HG3	1:A:8:ILE:H	8	0.29
(1,113)	1:A:17:LYS:HB2	1:A:17:LYS:H	12	0.29
(1,113)	1:A:17:LYS:HB3	1:A:17:LYS:H	12	0.29
(2,2)	1:B:35:LYS:HA	1:B:40:ILE:HA	11	0.28
(2,2)	1:B:35:LYS:HA	1:B:40:ILE:HA	12	0.28
(1,64)	1:A:6:VAL:HB	1:A:6:VAL:H	13	0.28
(1,64)	1:A:6:VAL:HB	1:A:6:VAL:H	16	0.28
(1,46)	1:A:17:LYS:HG2	1:A:18:CYS:H	19	0.28
(1,46)	1:A:17:LYS:HG3	1:A:18:CYS:H	19	0.28
(1,39)	1:A:14:ARG:HB2	1:A:15:THR:H	6	0.28
(1,39)	1:A:14:ARG:HB3	1:A:15:THR:H	6	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,39)	1:A:14:ARG:HB2	1:A:15:THR:H	15	0.28
(1,39)	1:A:14:ARG:HB3	1:A:15:THR:H	15	0.28
(1,39)	1:A:14:ARG:HB2	1:A:15:THR:H	17	0.28
(1,39)	1:A:14:ARG:HB3	1:A:15:THR:H	17	0.28
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD11	6	0.28
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD12	6	0.28
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD13	6	0.28
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD11	13	0.28
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD12	13	0.28
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD13	13	0.28
(1,347)	1:B:43:CYS:HA	1:B:51:GLN:H	6	0.28
(1,324)	1:B:52:ARG:HD2	1:B:41:ILE:H	10	0.28
(1,324)	1:B:52:ARG:HD3	1:B:41:ILE:H	10	0.28
(1,324)	1:B:52:ARG:HD2	1:B:41:ILE:H	11	0.28
(1,324)	1:B:52:ARG:HD3	1:B:41:ILE:H	11	0.28
(1,31)	1:A:10:TYR:H	1:A:11:CYS:H	15	0.28
(1,301)	1:B:49:LYS:HD2	1:B:49:LYS:H	20	0.28
(1,301)	1:B:49:LYS:HD3	1:B:49:LYS:H	20	0.28
(1,233)	1:B:49:LYS:HG2	1:B:50:CYS:H	20	0.28
(1,233)	1:B:49:LYS:HG3	1:B:50:CYS:H	20	0.28
(1,226)	1:B:46:ARG:HB2	1:B:47:THR:H	8	0.28
(1,226)	1:B:46:ARG:HB3	1:B:47:THR:H	8	0.28
(1,226)	1:B:46:ARG:HB2	1:B:47:THR:H	20	0.28
(1,226)	1:B:46:ARG:HB3	1:B:47:THR:H	20	0.28
(1,19)	1:A:7:PRO:HB2	1:A:8:ILE:H	4	0.28
(1,19)	1:A:7:PRO:HB3	1:A:8:ILE:H	4	0.28
(1,19)	1:A:7:PRO:HB2	1:A:8:ILE:H	16	0.28
(1,19)	1:A:7:PRO:HB3	1:A:8:ILE:H	16	0.28
(1,187)	1:A:6:VAL:HG11	1:A:9:ILE:H	12	0.28
(1,187)	1:A:6:VAL:HG12	1:A:9:ILE:H	12	0.28
(1,187)	1:A:6:VAL:HG13	1:A:9:ILE:H	12	0.28
(1,187)	1:A:6:VAL:HG21	1:A:9:ILE:H	12	0.28
(1,187)	1:A:6:VAL:HG22	1:A:9:ILE:H	12	0.28
(1,187)	1:A:6:VAL:HG23	1:A:9:ILE:H	12	0.28
(1,186)	1:A:20:ARG:HD2	1:A:6:VAL:H	14	0.28
(1,186)	1:A:20:ARG:HD3	1:A:6:VAL:H	14	0.28
(1,172)	1:A:8:ILE:HD11	1:A:7:PRO:HD2	12	0.28
(1,172)	1:A:8:ILE:HD11	1:A:7:PRO:HD3	12	0.28
(1,172)	1:A:8:ILE:HD12	1:A:7:PRO:HD2	12	0.28
(1,172)	1:A:8:ILE:HD12	1:A:7:PRO:HD3	12	0.28
(1,172)	1:A:8:ILE:HD13	1:A:7:PRO:HD2	12	0.28
(1,172)	1:A:8:ILE:HD13	1:A:7:PRO:HD3	12	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,166)	1:A:11:CYS:HA	1:A:17:LYS:H	9	0.28
(1,130)	1:A:20:ARG:HD2	1:A:20:ARG:H	14	0.28
(1,130)	1:A:20:ARG:HD3	1:A:20:ARG:H	14	0.28
(1,114)	1:A:17:LYS:HD2	1:A:17:LYS:H	4	0.28
(1,114)	1:A:17:LYS:HD3	1:A:17:LYS:H	4	0.28
(1,114)	1:A:17:LYS:HD2	1:A:17:LYS:H	9	0.28
(1,114)	1:A:17:LYS:HD3	1:A:17:LYS:H	9	0.28
(1,114)	1:A:17:LYS:HD2	1:A:17:LYS:H	16	0.28
(1,114)	1:A:17:LYS:HD3	1:A:17:LYS:H	16	0.28
(1,114)	1:A:17:LYS:HD2	1:A:17:LYS:H	19	0.28
(1,114)	1:A:17:LYS:HD3	1:A:17:LYS:H	19	0.28
(2,2)	1:B:35:LYS:HA	1:B:40:ILE:HA	4	0.27
(2,2)	1:B:35:LYS:HA	1:B:40:ILE:HA	5	0.27
(2,2)	1:B:35:LYS:HA	1:B:40:ILE:HA	14	0.27
(2,1)	1:A:3:LYS:HA	1:A:8:ILE:HA	3	0.27
(1,46)	1:A:17:LYS:HG2	1:A:18:CYS:H	14	0.27
(1,46)	1:A:17:LYS:HG3	1:A:18:CYS:H	14	0.27
(1,39)	1:A:14:ARG:HB2	1:A:15:THR:H	5	0.27
(1,39)	1:A:14:ARG:HB3	1:A:15:THR:H	5	0.27
(1,39)	1:A:14:ARG:HB2	1:A:15:THR:H	12	0.27
(1,39)	1:A:14:ARG:HB3	1:A:15:THR:H	12	0.27
(1,39)	1:A:14:ARG:HB2	1:A:15:THR:H	14	0.27
(1,39)	1:A:14:ARG:HB3	1:A:15:THR:H	14	0.27
(1,39)	1:A:14:ARG:HB2	1:A:15:THR:H	19	0.27
(1,39)	1:A:14:ARG:HB3	1:A:15:THR:H	19	0.27
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD11	4	0.27
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD12	4	0.27
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD13	4	0.27
(1,372)	1:B:38:VAL:HG11	1:B:52:ARG:HE	18	0.27
(1,372)	1:B:38:VAL:HG12	1:B:52:ARG:HE	18	0.27
(1,372)	1:B:38:VAL:HG13	1:B:52:ARG:HE	18	0.27
(1,372)	1:B:38:VAL:HG21	1:B:52:ARG:HE	18	0.27
(1,372)	1:B:38:VAL:HG22	1:B:52:ARG:HE	18	0.27
(1,372)	1:B:38:VAL:HG23	1:B:52:ARG:HE	18	0.27
(1,353)	1:B:43:CYS:HA	1:B:49:LYS:H	14	0.27
(1,347)	1:B:43:CYS:HA	1:B:51:GLN:H	7	0.27
(1,334)	1:B:51:GLN:HG2	1:B:42:TYR:HE1	16	0.27
(1,334)	1:B:51:GLN:HG2	1:B:42:TYR:HE2	16	0.27
(1,334)	1:B:51:GLN:HG3	1:B:42:TYR:HE1	16	0.27
(1,334)	1:B:51:GLN:HG3	1:B:42:TYR:HE2	16	0.27
(1,334)	1:B:51:GLN:HG2	1:B:42:TYR:HE1	19	0.27
(1,334)	1:B:51:GLN:HG2	1:B:42:TYR:HE2	19	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,334)	1:B:51:GLN:HG3	1:B:42:TYR:HE1	19	0.27
(1,334)	1:B:51:GLN:HG3	1:B:42:TYR:HE2	19	0.27
(1,324)	1:B:52:ARG:HD2	1:B:41:ILE:H	2	0.27
(1,324)	1:B:52:ARG:HD3	1:B:41:ILE:H	2	0.27
(1,324)	1:B:52:ARG:HD2	1:B:41:ILE:H	12	0.27
(1,324)	1:B:52:ARG:HD3	1:B:41:ILE:H	12	0.27
(1,301)	1:B:49:LYS:HD2	1:B:49:LYS:H	4	0.27
(1,301)	1:B:49:LYS:HD3	1:B:49:LYS:H	4	0.27
(1,301)	1:B:49:LYS:HD2	1:B:49:LYS:H	5	0.27
(1,301)	1:B:49:LYS:HD3	1:B:49:LYS:H	5	0.27
(1,301)	1:B:49:LYS:HD2	1:B:49:LYS:H	11	0.27
(1,301)	1:B:49:LYS:HD3	1:B:49:LYS:H	11	0.27
(1,300)	1:B:49:LYS:HB2	1:B:49:LYS:H	2	0.27
(1,300)	1:B:49:LYS:HB3	1:B:49:LYS:H	2	0.27
(1,300)	1:B:49:LYS:HB2	1:B:49:LYS:H	19	0.27
(1,300)	1:B:49:LYS:HB3	1:B:49:LYS:H	19	0.27
(1,251)	1:B:38:VAL:HB	1:B:38:VAL:H	10	0.27
(1,251)	1:B:38:VAL:HB	1:B:38:VAL:H	11	0.27
(1,226)	1:B:46:ARG:HB2	1:B:47:THR:H	2	0.27
(1,226)	1:B:46:ARG:HB3	1:B:47:THR:H	2	0.27
(1,226)	1:B:46:ARG:HB2	1:B:47:THR:H	12	0.27
(1,226)	1:B:46:ARG:HB3	1:B:47:THR:H	12	0.27
(1,226)	1:B:46:ARG:HB2	1:B:47:THR:H	13	0.27
(1,226)	1:B:46:ARG:HB3	1:B:47:THR:H	13	0.27
(1,226)	1:B:46:ARG:HB2	1:B:47:THR:H	15	0.27
(1,226)	1:B:46:ARG:HB3	1:B:47:THR:H	15	0.27
(1,19)	1:A:7:PRO:HB2	1:A:8:ILE:H	14	0.27
(1,19)	1:A:7:PRO:HB3	1:A:8:ILE:H	14	0.27
(1,186)	1:A:20:ARG:HD2	1:A:6:VAL:H	17	0.27
(1,186)	1:A:20:ARG:HD3	1:A:6:VAL:H	17	0.27
(1,153)	1:A:8:ILE:H	1:A:21:MET:H	20	0.27
(1,147)	1:A:19:GLN:HG2	1:A:10:TYR:HE1	12	0.27
(1,147)	1:A:19:GLN:HG2	1:A:10:TYR:HE2	12	0.27
(1,147)	1:A:19:GLN:HG3	1:A:10:TYR:HE1	12	0.27
(1,147)	1:A:19:GLN:HG3	1:A:10:TYR:HE2	12	0.27
(1,138)	1:A:18:CYS:HA	1:A:10:TYR:H	3	0.27
(1,138)	1:A:18:CYS:HA	1:A:10:TYR:H	18	0.27
(1,137)	1:A:20:ARG:HD2	1:A:9:ILE:H	1	0.27
(1,137)	1:A:20:ARG:HD3	1:A:9:ILE:H	1	0.27
(1,137)	1:A:20:ARG:HD2	1:A:9:ILE:H	3	0.27
(1,137)	1:A:20:ARG:HD3	1:A:9:ILE:H	3	0.27
(1,114)	1:A:17:LYS:HD2	1:A:17:LYS:H	10	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,114)	1:A:17:LYS:HD3	1:A:17:LYS:H	10	0.27
(1,114)	1:A:17:LYS:HD2	1:A:17:LYS:H	13	0.27
(1,114)	1:A:17:LYS:HD3	1:A:17:LYS:H	13	0.27
(1,114)	1:A:17:LYS:HD2	1:A:17:LYS:H	14	0.27
(1,114)	1:A:17:LYS:HD3	1:A:17:LYS:H	14	0.27
(1,114)	1:A:17:LYS:HD2	1:A:17:LYS:H	17	0.27
(1,114)	1:A:17:LYS:HD3	1:A:17:LYS:H	17	0.27
(1,113)	1:A:17:LYS:HB2	1:A:17:LYS:H	1	0.27
(1,113)	1:A:17:LYS:HB3	1:A:17:LYS:H	1	0.27
(1,113)	1:A:17:LYS:HB2	1:A:17:LYS:H	15	0.27
(1,113)	1:A:17:LYS:HB3	1:A:17:LYS:H	15	0.27
(2,1)	1:A:3:LYS:HA	1:A:8:ILE:HA	16	0.26
(2,1)	1:A:3:LYS:HA	1:A:8:ILE:HA	17	0.26
(1,64)	1:A:6:VAL:HB	1:A:6:VAL:H	3	0.26
(1,64)	1:A:6:VAL:HB	1:A:6:VAL:H	10	0.26
(1,47)	1:A:19:GLN:HE21	1:A:20:ARG:H	12	0.26
(1,47)	1:A:19:GLN:HE22	1:A:20:ARG:H	12	0.26
(1,46)	1:A:17:LYS:HG2	1:A:18:CYS:H	16	0.26
(1,46)	1:A:17:LYS:HG3	1:A:18:CYS:H	16	0.26
(1,39)	1:A:14:ARG:HB2	1:A:15:THR:H	3	0.26
(1,39)	1:A:14:ARG:HB3	1:A:15:THR:H	3	0.26
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD11	8	0.26
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD12	8	0.26
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD13	8	0.26
(1,368)	1:B:38:VAL:HG11	1:B:35:LYS:H	6	0.26
(1,368)	1:B:38:VAL:HG12	1:B:35:LYS:H	6	0.26
(1,368)	1:B:38:VAL:HG13	1:B:35:LYS:H	6	0.26
(1,368)	1:B:38:VAL:HG21	1:B:35:LYS:H	6	0.26
(1,368)	1:B:38:VAL:HG22	1:B:35:LYS:H	6	0.26
(1,368)	1:B:38:VAL:HG23	1:B:35:LYS:H	6	0.26
(1,353)	1:B:43:CYS:HA	1:B:49:LYS:H	8	0.26
(1,353)	1:B:43:CYS:HA	1:B:49:LYS:H	16	0.26
(1,340)	1:B:40:ILE:H	1:B:53:MET:H	6	0.26
(1,337)	1:B:41:ILE:HG12	1:B:52:ARG:HE	15	0.26
(1,337)	1:B:41:ILE:HG13	1:B:52:ARG:HE	15	0.26
(1,325)	1:B:50:CYS:HA	1:B:42:TYR:H	10	0.26
(1,324)	1:B:52:ARG:HD2	1:B:41:ILE:H	3	0.26
(1,324)	1:B:52:ARG:HD3	1:B:41:ILE:H	3	0.26
(1,324)	1:B:52:ARG:HD2	1:B:41:ILE:H	14	0.26
(1,324)	1:B:52:ARG:HD3	1:B:41:ILE:H	14	0.26
(1,322)	1:B:53:MET:HG2	1:B:40:ILE:H	20	0.26
(1,322)	1:B:53:MET:HG3	1:B:40:ILE:H	20	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,301)	1:B:49:LYS:HD2	1:B:49:LYS:H	3	0.26
(1,301)	1:B:49:LYS:HD3	1:B:49:LYS:H	3	0.26
(1,301)	1:B:49:LYS:HD2	1:B:49:LYS:H	8	0.26
(1,301)	1:B:49:LYS:HD3	1:B:49:LYS:H	8	0.26
(1,301)	1:B:49:LYS:HD2	1:B:49:LYS:H	12	0.26
(1,301)	1:B:49:LYS:HD3	1:B:49:LYS:H	12	0.26
(1,301)	1:B:49:LYS:HD2	1:B:49:LYS:H	13	0.26
(1,301)	1:B:49:LYS:HD3	1:B:49:LYS:H	13	0.26
(1,301)	1:B:49:LYS:HD2	1:B:49:LYS:H	15	0.26
(1,301)	1:B:49:LYS:HD3	1:B:49:LYS:H	15	0.26
(1,300)	1:B:49:LYS:HB2	1:B:49:LYS:H	1	0.26
(1,300)	1:B:49:LYS:HB3	1:B:49:LYS:H	1	0.26
(1,300)	1:B:49:LYS:HB2	1:B:49:LYS:H	10	0.26
(1,300)	1:B:49:LYS:HB3	1:B:49:LYS:H	10	0.26
(1,251)	1:B:38:VAL:HB	1:B:38:VAL:H	1	0.26
(1,251)	1:B:38:VAL:HB	1:B:38:VAL:H	2	0.26
(1,251)	1:B:38:VAL:HB	1:B:38:VAL:H	3	0.26
(1,251)	1:B:38:VAL:HB	1:B:38:VAL:H	5	0.26
(1,251)	1:B:38:VAL:HB	1:B:38:VAL:H	6	0.26
(1,251)	1:B:38:VAL:HB	1:B:38:VAL:H	12	0.26
(1,251)	1:B:38:VAL:HB	1:B:38:VAL:H	14	0.26
(1,25)	1:A:9:ILE:HA	1:A:10:TYR:HD1	2	0.26
(1,25)	1:A:9:ILE:HA	1:A:10:TYR:HD2	2	0.26
(1,25)	1:A:9:ILE:HA	1:A:10:TYR:HD1	5	0.26
(1,25)	1:A:9:ILE:HA	1:A:10:TYR:HD2	5	0.26
(1,25)	1:A:9:ILE:HA	1:A:10:TYR:HD1	6	0.26
(1,25)	1:A:9:ILE:HA	1:A:10:TYR:HD2	6	0.26
(1,25)	1:A:9:ILE:HA	1:A:10:TYR:HD1	8	0.26
(1,25)	1:A:9:ILE:HA	1:A:10:TYR:HD2	8	0.26
(1,226)	1:B:46:ARG:HB2	1:B:47:THR:H	7	0.26
(1,226)	1:B:46:ARG:HB3	1:B:47:THR:H	7	0.26
(1,226)	1:B:46:ARG:HB2	1:B:47:THR:H	16	0.26
(1,226)	1:B:46:ARG:HB3	1:B:47:THR:H	16	0.26
(1,212)	1:B:41:ILE:HA	1:B:42:TYR:HD1	1	0.26
(1,212)	1:B:41:ILE:HA	1:B:42:TYR:HD2	1	0.26
(1,212)	1:B:41:ILE:HA	1:B:42:TYR:HD1	6	0.26
(1,212)	1:B:41:ILE:HA	1:B:42:TYR:HD2	6	0.26
(1,212)	1:B:41:ILE:HA	1:B:42:TYR:HD1	15	0.26
(1,212)	1:B:41:ILE:HA	1:B:42:TYR:HD2	15	0.26
(1,189)	1:B:35:LYS:HA	1:B:36:LYS:H	12	0.26
(1,166)	1:A:11:CYS:HA	1:A:17:LYS:H	4	0.26
(1,166)	1:A:11:CYS:HA	1:A:17:LYS:H	19	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,164)	1:A:18:CYS:HA	1:A:11:CYS:HB2	20	0.26
(1,164)	1:A:18:CYS:HA	1:A:11:CYS:HB3	20	0.26
(1,160)	1:A:11:CYS:HA	1:A:19:GLN:H	4	0.26
(1,160)	1:A:11:CYS:HA	1:A:19:GLN:H	8	0.26
(1,160)	1:A:11:CYS:HA	1:A:19:GLN:H	17	0.26
(1,147)	1:A:19:GLN:HG2	1:A:10:TYR:HE1	14	0.26
(1,147)	1:A:19:GLN:HG2	1:A:10:TYR:HE2	14	0.26
(1,147)	1:A:19:GLN:HG3	1:A:10:TYR:HE1	14	0.26
(1,147)	1:A:19:GLN:HG3	1:A:10:TYR:HE2	14	0.26
(1,138)	1:A:18:CYS:HA	1:A:10:TYR:H	15	0.26
(1,137)	1:A:20:ARG:HD2	1:A:9:ILE:H	10	0.26
(1,137)	1:A:20:ARG:HD3	1:A:9:ILE:H	10	0.26
(1,114)	1:A:17:LYS:HD2	1:A:17:LYS:H	2	0.26
(1,114)	1:A:17:LYS:HD3	1:A:17:LYS:H	2	0.26
(1,114)	1:A:17:LYS:HD2	1:A:17:LYS:H	5	0.26
(1,114)	1:A:17:LYS:HD3	1:A:17:LYS:H	5	0.26
(1,114)	1:A:17:LYS:HD2	1:A:17:LYS:H	11	0.26
(1,114)	1:A:17:LYS:HD3	1:A:17:LYS:H	11	0.26
(1,114)	1:A:17:LYS:HD2	1:A:17:LYS:H	20	0.26
(1,114)	1:A:17:LYS:HD3	1:A:17:LYS:H	20	0.26
(1,113)	1:A:17:LYS:HB2	1:A:17:LYS:H	8	0.26
(1,113)	1:A:17:LYS:HB3	1:A:17:LYS:H	8	0.26
(1,113)	1:A:17:LYS:HB2	1:A:17:LYS:H	18	0.26
(1,113)	1:A:17:LYS:HB3	1:A:17:LYS:H	18	0.26
(2,2)	1:B:35:LYS:HA	1:B:40:ILE:HA	10	0.25
(1,64)	1:A:6:VAL:HB	1:A:6:VAL:H	2	0.25
(1,64)	1:A:6:VAL:HB	1:A:6:VAL:H	6	0.25
(1,45)	1:A:17:LYS:HD2	1:A:18:CYS:H	15	0.25
(1,45)	1:A:17:LYS:HD3	1:A:18:CYS:H	15	0.25
(1,39)	1:A:14:ARG:HB2	1:A:15:THR:H	20	0.25
(1,39)	1:A:14:ARG:HB3	1:A:15:THR:H	20	0.25
(1,36)	1:A:13:ARG:HA	1:A:14:ARG:HE	2	0.25
(1,347)	1:B:43:CYS:HA	1:B:51:GLN:H	4	0.25
(1,347)	1:B:43:CYS:HA	1:B:51:GLN:H	5	0.25
(1,347)	1:B:43:CYS:HA	1:B:51:GLN:H	8	0.25
(1,347)	1:B:43:CYS:HA	1:B:51:GLN:H	13	0.25
(1,340)	1:B:40:ILE:H	1:B:53:MET:H	15	0.25
(1,337)	1:B:41:ILE:HG12	1:B:52:ARG:HE	6	0.25
(1,337)	1:B:41:ILE:HG13	1:B:52:ARG:HE	6	0.25
(1,324)	1:B:52:ARG:HD2	1:B:41:ILE:H	13	0.25
(1,324)	1:B:52:ARG:HD3	1:B:41:ILE:H	13	0.25
(1,31)	1:A:10:TYR:H	1:A:11:CYS:H	7	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,31)	1:A:10:TYR:H	1:A:11:CYS:H	19	0.25
(1,301)	1:B:49:LYS:HD2	1:B:49:LYS:H	6	0.25
(1,301)	1:B:49:LYS:HD3	1:B:49:LYS:H	6	0.25
(1,301)	1:B:49:LYS:HD2	1:B:49:LYS:H	16	0.25
(1,301)	1:B:49:LYS:HD3	1:B:49:LYS:H	16	0.25
(1,301)	1:B:49:LYS:HD2	1:B:49:LYS:H	17	0.25
(1,301)	1:B:49:LYS:HD3	1:B:49:LYS:H	17	0.25
(1,301)	1:B:49:LYS:HD2	1:B:49:LYS:H	18	0.25
(1,301)	1:B:49:LYS:HD3	1:B:49:LYS:H	18	0.25
(1,300)	1:B:49:LYS:HB2	1:B:49:LYS:H	7	0.25
(1,300)	1:B:49:LYS:HB3	1:B:49:LYS:H	7	0.25
(1,218)	1:B:42:TYR:H	1:B:43:CYS:H	9	0.25
(1,212)	1:B:41:ILE:HA	1:B:42:TYR:HD1	4	0.25
(1,212)	1:B:41:ILE:HA	1:B:42:TYR:HD2	4	0.25
(1,20)	1:A:8:ILE:HG21	1:A:9:ILE:H	8	0.25
(1,20)	1:A:8:ILE:HG22	1:A:9:ILE:H	8	0.25
(1,20)	1:A:8:ILE:HG23	1:A:9:ILE:H	8	0.25
(1,2)	1:A:3:LYS:HA	1:A:4:LYS:H	4	0.25
(1,2)	1:A:3:LYS:HA	1:A:4:LYS:H	8	0.25
(1,189)	1:B:35:LYS:HA	1:B:36:LYS:H	19	0.25
(1,178)	1:A:15:THR:HG21	1:A:14:ARG:HE	4	0.25
(1,178)	1:A:15:THR:HG22	1:A:14:ARG:HE	4	0.25
(1,178)	1:A:15:THR:HG23	1:A:14:ARG:HE	4	0.25
(1,172)	1:A:8:ILE:HD11	1:A:7:PRO:HD2	11	0.25
(1,172)	1:A:8:ILE:HD11	1:A:7:PRO:HD3	11	0.25
(1,172)	1:A:8:ILE:HD12	1:A:7:PRO:HD2	11	0.25
(1,172)	1:A:8:ILE:HD12	1:A:7:PRO:HD3	11	0.25
(1,172)	1:A:8:ILE:HD13	1:A:7:PRO:HD2	11	0.25
(1,172)	1:A:8:ILE:HD13	1:A:7:PRO:HD3	11	0.25
(1,166)	1:A:11:CYS:HA	1:A:17:LYS:H	5	0.25
(1,164)	1:A:18:CYS:HA	1:A:11:CYS:HB2	16	0.25
(1,164)	1:A:18:CYS:HA	1:A:11:CYS:HB3	16	0.25
(1,160)	1:A:11:CYS:HA	1:A:19:GLN:H	2	0.25
(1,160)	1:A:11:CYS:HA	1:A:19:GLN:H	6	0.25
(1,160)	1:A:11:CYS:HA	1:A:19:GLN:H	13	0.25
(1,16)	1:A:2:SER:HB2	1:A:3:LYS:H	8	0.25
(1,16)	1:A:2:SER:HB3	1:A:3:LYS:H	8	0.25
(1,147)	1:A:19:GLN:HG2	1:A:10:TYR:HE1	15	0.25
(1,147)	1:A:19:GLN:HG2	1:A:10:TYR:HE2	15	0.25
(1,147)	1:A:19:GLN:HG3	1:A:10:TYR:HE1	15	0.25
(1,147)	1:A:19:GLN:HG3	1:A:10:TYR:HE2	15	0.25
(1,137)	1:A:20:ARG:HD2	1:A:9:ILE:H	7	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,137)	1:A:20:ARG:HD3	1:A:9:ILE:H	7	0.25
(1,135)	1:A:21:MET:HG2	1:A:8:ILE:H	7	0.25
(1,135)	1:A:21:MET:HG3	1:A:8:ILE:H	7	0.25
(1,135)	1:A:21:MET:HG2	1:A:8:ILE:H	15	0.25
(1,135)	1:A:21:MET:HG3	1:A:8:ILE:H	15	0.25
(1,135)	1:A:21:MET:HG2	1:A:8:ILE:H	19	0.25
(1,135)	1:A:21:MET:HG3	1:A:8:ILE:H	19	0.25
(1,113)	1:A:17:LYS:HB2	1:A:17:LYS:H	6	0.25
(1,113)	1:A:17:LYS:HB3	1:A:17:LYS:H	6	0.25
(2,2)	1:B:35:LYS:HA	1:B:40:ILE:HA	2	0.24
(2,2)	1:B:35:LYS:HA	1:B:40:ILE:HA	3	0.24
(1,64)	1:A:6:VAL:HB	1:A:6:VAL:H	4	0.24
(1,64)	1:A:6:VAL:HB	1:A:6:VAL:H	8	0.24
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD11	11	0.24
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD12	11	0.24
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD13	11	0.24
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD11	15	0.24
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD12	15	0.24
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD13	15	0.24
(1,36)	1:A:13:ARG:HA	1:A:14:ARG:HE	3	0.24
(1,353)	1:B:43:CYS:HA	1:B:49:LYS:H	13	0.24
(1,330)	1:B:53:MET:HG2	1:B:42:TYR:HD1	8	0.24
(1,330)	1:B:53:MET:HG2	1:B:42:TYR:HD2	8	0.24
(1,330)	1:B:53:MET:HG3	1:B:42:TYR:HD1	8	0.24
(1,330)	1:B:53:MET:HG3	1:B:42:TYR:HD2	8	0.24
(1,325)	1:B:50:CYS:HA	1:B:42:TYR:H	2	0.24
(1,324)	1:B:52:ARG:HD2	1:B:41:ILE:H	1	0.24
(1,324)	1:B:52:ARG:HD3	1:B:41:ILE:H	1	0.24
(1,324)	1:B:52:ARG:HD2	1:B:41:ILE:H	5	0.24
(1,324)	1:B:52:ARG:HD3	1:B:41:ILE:H	5	0.24
(1,324)	1:B:52:ARG:HD2	1:B:41:ILE:H	8	0.24
(1,324)	1:B:52:ARG:HD3	1:B:41:ILE:H	8	0.24
(1,324)	1:B:52:ARG:HD2	1:B:41:ILE:H	9	0.24
(1,324)	1:B:52:ARG:HD3	1:B:41:ILE:H	9	0.24
(1,322)	1:B:53:MET:HG2	1:B:40:ILE:H	6	0.24
(1,322)	1:B:53:MET:HG3	1:B:40:ILE:H	6	0.24
(1,322)	1:B:53:MET:HG2	1:B:40:ILE:H	15	0.24
(1,322)	1:B:53:MET:HG3	1:B:40:ILE:H	15	0.24
(1,322)	1:B:53:MET:HG2	1:B:40:ILE:H	19	0.24
(1,322)	1:B:53:MET:HG3	1:B:40:ILE:H	19	0.24
(1,318)	1:B:53:MET:HB2	1:B:53:MET:H	8	0.24
(1,318)	1:B:53:MET:HB3	1:B:53:MET:H	8	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,301)	1:B:49:LYS:HD2	1:B:49:LYS:H	9	0.24
(1,301)	1:B:49:LYS:HD3	1:B:49:LYS:H	9	0.24
(1,251)	1:B:38:VAL:HB	1:B:38:VAL:H	8	0.24
(1,251)	1:B:38:VAL:HB	1:B:38:VAL:H	18	0.24
(1,25)	1:A:9:ILE:HA	1:A:10:TYR:HD1	18	0.24
(1,25)	1:A:9:ILE:HA	1:A:10:TYR:HD2	18	0.24
(1,234)	1:B:51:GLN:HE21	1:B:52:ARG:H	16	0.24
(1,234)	1:B:51:GLN:HE22	1:B:52:ARG:H	16	0.24
(1,233)	1:B:49:LYS:HG2	1:B:50:CYS:H	14	0.24
(1,233)	1:B:49:LYS:HG3	1:B:50:CYS:H	14	0.24
(1,226)	1:B:46:ARG:HB2	1:B:47:THR:H	9	0.24
(1,226)	1:B:46:ARG:HB3	1:B:47:THR:H	9	0.24
(1,218)	1:B:42:TYR:H	1:B:43:CYS:H	18	0.24
(1,212)	1:B:41:ILE:HA	1:B:42:TYR:HD1	2	0.24
(1,212)	1:B:41:ILE:HA	1:B:42:TYR:HD2	2	0.24
(1,212)	1:B:41:ILE:HA	1:B:42:TYR:HD1	5	0.24
(1,212)	1:B:41:ILE:HA	1:B:42:TYR:HD2	5	0.24
(1,203)	1:B:34:SER:HB2	1:B:35:LYS:H	15	0.24
(1,203)	1:B:34:SER:HB3	1:B:35:LYS:H	15	0.24
(1,2)	1:A:3:LYS:HA	1:A:4:LYS:H	3	0.24
(1,2)	1:A:3:LYS:HA	1:A:4:LYS:H	13	0.24
(1,189)	1:B:35:LYS:HA	1:B:36:LYS:H	14	0.24
(1,187)	1:A:6:VAL:HG11	1:A:9:ILE:H	20	0.24
(1,187)	1:A:6:VAL:HG12	1:A:9:ILE:H	20	0.24
(1,187)	1:A:6:VAL:HG13	1:A:9:ILE:H	20	0.24
(1,187)	1:A:6:VAL:HG21	1:A:9:ILE:H	20	0.24
(1,187)	1:A:6:VAL:HG22	1:A:9:ILE:H	20	0.24
(1,187)	1:A:6:VAL:HG23	1:A:9:ILE:H	20	0.24
(1,185)	1:A:6:VAL:HG11	1:A:20:ARG:HE	14	0.24
(1,185)	1:A:6:VAL:HG12	1:A:20:ARG:HE	14	0.24
(1,185)	1:A:6:VAL:HG13	1:A:20:ARG:HE	14	0.24
(1,185)	1:A:6:VAL:HG21	1:A:20:ARG:HE	14	0.24
(1,185)	1:A:6:VAL:HG22	1:A:20:ARG:HE	14	0.24
(1,185)	1:A:6:VAL:HG23	1:A:20:ARG:HE	14	0.24
(1,185)	1:A:6:VAL:HG11	1:A:20:ARG:HE	20	0.24
(1,185)	1:A:6:VAL:HG12	1:A:20:ARG:HE	20	0.24
(1,185)	1:A:6:VAL:HG13	1:A:20:ARG:HE	20	0.24
(1,185)	1:A:6:VAL:HG21	1:A:20:ARG:HE	20	0.24
(1,185)	1:A:6:VAL:HG22	1:A:20:ARG:HE	20	0.24
(1,185)	1:A:6:VAL:HG23	1:A:20:ARG:HE	20	0.24
(1,166)	1:A:11:CYS:HA	1:A:17:LYS:H	11	0.24
(1,160)	1:A:11:CYS:HA	1:A:19:GLN:H	1	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,160)	1:A:11:CYS:HA	1:A:19:GLN:H	15	0.24
(1,138)	1:A:18:CYS:HA	1:A:10:TYR:H	1	0.24
(1,138)	1:A:18:CYS:HA	1:A:10:TYR:H	8	0.24
(1,137)	1:A:20:ARG:HD2	1:A:9:ILE:H	17	0.24
(1,137)	1:A:20:ARG:HD3	1:A:9:ILE:H	17	0.24
(1,114)	1:A:17:LYS:HD2	1:A:17:LYS:H	7	0.24
(1,114)	1:A:17:LYS:HD3	1:A:17:LYS:H	7	0.24
(2,1)	1:A:3:LYS:HA	1:A:8:ILE:HA	4	0.23
(2,1)	1:A:3:LYS:HA	1:A:8:ILE:HA	15	0.23
(1,64)	1:A:6:VAL:HB	1:A:6:VAL:H	7	0.23
(1,52)	1:A:3:LYS:HB2	1:A:3:LYS:H	13	0.23
(1,52)	1:A:3:LYS:HB3	1:A:3:LYS:H	13	0.23
(1,45)	1:A:17:LYS:HD2	1:A:18:CYS:H	3	0.23
(1,45)	1:A:17:LYS:HD3	1:A:18:CYS:H	3	0.23
(1,45)	1:A:17:LYS:HD2	1:A:18:CYS:H	12	0.23
(1,45)	1:A:17:LYS:HD3	1:A:18:CYS:H	12	0.23
(1,39)	1:A:14:ARG:HB2	1:A:15:THR:H	7	0.23
(1,39)	1:A:14:ARG:HB3	1:A:15:THR:H	7	0.23
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD11	1	0.23
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD12	1	0.23
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD13	1	0.23
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD11	16	0.23
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD12	16	0.23
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD13	16	0.23
(1,36)	1:A:13:ARG:HA	1:A:14:ARG:HE	7	0.23
(1,353)	1:B:43:CYS:HA	1:B:49:LYS:H	12	0.23
(1,353)	1:B:43:CYS:HA	1:B:49:LYS:H	20	0.23
(1,347)	1:B:43:CYS:HA	1:B:51:GLN:H	1	0.23
(1,347)	1:B:43:CYS:HA	1:B:51:GLN:H	2	0.23
(1,347)	1:B:43:CYS:HA	1:B:51:GLN:H	14	0.23
(1,347)	1:B:43:CYS:HA	1:B:51:GLN:H	18	0.23
(1,347)	1:B:43:CYS:HA	1:B:51:GLN:H	20	0.23
(1,340)	1:B:40:ILE:H	1:B:53:MET:H	17	0.23
(1,322)	1:B:53:MET:HG2	1:B:40:ILE:H	7	0.23
(1,322)	1:B:53:MET:HG3	1:B:40:ILE:H	7	0.23
(1,31)	1:A:10:TYR:H	1:A:11:CYS:H	5	0.23
(1,30)	1:A:10:TYR:HB2	1:A:11:CYS:H	8	0.23
(1,30)	1:A:10:TYR:HB3	1:A:11:CYS:H	8	0.23
(1,27)	1:A:9:ILE:HG21	1:A:10:TYR:HD1	12	0.23
(1,27)	1:A:9:ILE:HG21	1:A:10:TYR:HD2	12	0.23
(1,27)	1:A:9:ILE:HG22	1:A:10:TYR:HD1	12	0.23
(1,27)	1:A:9:ILE:HG22	1:A:10:TYR:HD2	12	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,27)	1:A:9:ILE:HG23	1:A:10:TYR:HD1	12	0.23
(1,27)	1:A:9:ILE:HG23	1:A:10:TYR:HD2	12	0.23
(1,251)	1:B:38:VAL:HB	1:B:38:VAL:H	15	0.23
(1,25)	1:A:9:ILE:HA	1:A:10:TYR:HD1	1	0.23
(1,25)	1:A:9:ILE:HA	1:A:10:TYR:HD2	1	0.23
(1,25)	1:A:9:ILE:HA	1:A:10:TYR:HD1	3	0.23
(1,25)	1:A:9:ILE:HA	1:A:10:TYR:HD2	3	0.23
(1,25)	1:A:9:ILE:HA	1:A:10:TYR:HD1	11	0.23
(1,25)	1:A:9:ILE:HA	1:A:10:TYR:HD2	11	0.23
(1,239)	1:B:35:LYS:HB2	1:B:35:LYS:H	10	0.23
(1,239)	1:B:35:LYS:HB3	1:B:35:LYS:H	10	0.23
(1,232)	1:B:49:LYS:HD2	1:B:50:CYS:H	10	0.23
(1,232)	1:B:49:LYS:HD3	1:B:50:CYS:H	10	0.23
(1,226)	1:B:46:ARG:HB2	1:B:47:THR:H	17	0.23
(1,226)	1:B:46:ARG:HB3	1:B:47:THR:H	17	0.23
(1,223)	1:B:45:ARG:HA	1:B:46:ARG:HE	17	0.23
(1,218)	1:B:42:TYR:H	1:B:43:CYS:H	12	0.23
(1,217)	1:B:42:TYR:HB2	1:B:43:CYS:H	6	0.23
(1,217)	1:B:42:TYR:HB3	1:B:43:CYS:H	6	0.23
(1,212)	1:B:41:ILE:HA	1:B:42:TYR:HD1	7	0.23
(1,212)	1:B:41:ILE:HA	1:B:42:TYR:HD2	7	0.23
(1,212)	1:B:41:ILE:HA	1:B:42:TYR:HD1	8	0.23
(1,212)	1:B:41:ILE:HA	1:B:42:TYR:HD2	8	0.23
(1,212)	1:B:41:ILE:HA	1:B:42:TYR:HD1	17	0.23
(1,212)	1:B:41:ILE:HA	1:B:42:TYR:HD2	17	0.23
(1,207)	1:B:40:ILE:HG21	1:B:41:ILE:H	1	0.23
(1,207)	1:B:40:ILE:HG22	1:B:41:ILE:H	1	0.23
(1,207)	1:B:40:ILE:HG23	1:B:41:ILE:H	1	0.23
(1,207)	1:B:40:ILE:HG21	1:B:41:ILE:H	2	0.23
(1,207)	1:B:40:ILE:HG22	1:B:41:ILE:H	2	0.23
(1,207)	1:B:40:ILE:HG23	1:B:41:ILE:H	2	0.23
(1,207)	1:B:40:ILE:HG21	1:B:41:ILE:H	6	0.23
(1,207)	1:B:40:ILE:HG22	1:B:41:ILE:H	6	0.23
(1,207)	1:B:40:ILE:HG23	1:B:41:ILE:H	6	0.23
(1,207)	1:B:40:ILE:HG21	1:B:41:ILE:H	13	0.23
(1,207)	1:B:40:ILE:HG22	1:B:41:ILE:H	13	0.23
(1,207)	1:B:40:ILE:HG23	1:B:41:ILE:H	13	0.23
(1,203)	1:B:34:SER:HB2	1:B:35:LYS:H	11	0.23
(1,203)	1:B:34:SER:HB3	1:B:35:LYS:H	11	0.23
(1,203)	1:B:34:SER:HB2	1:B:35:LYS:H	12	0.23
(1,203)	1:B:34:SER:HB3	1:B:35:LYS:H	12	0.23
(1,203)	1:B:34:SER:HB2	1:B:35:LYS:H	14	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,203)	1:B:34:SER:HB3	1:B:35:LYS:H	14	0.23
(1,203)	1:B:34:SER:HB2	1:B:35:LYS:H	16	0.23
(1,203)	1:B:34:SER:HB3	1:B:35:LYS:H	16	0.23
(1,2)	1:A:3:LYS:HA	1:A:4:LYS:H	10	0.23
(1,189)	1:B:35:LYS:HA	1:B:36:LYS:H	10	0.23
(1,189)	1:B:35:LYS:HA	1:B:36:LYS:H	11	0.23
(1,166)	1:A:11:CYS:HA	1:A:17:LYS:H	2	0.23
(1,166)	1:A:11:CYS:HA	1:A:17:LYS:H	16	0.23
(1,166)	1:A:11:CYS:HA	1:A:17:LYS:H	17	0.23
(1,160)	1:A:11:CYS:HA	1:A:19:GLN:H	20	0.23
(1,150)	1:A:9:ILE:HG12	1:A:20:ARG:HE	8	0.23
(1,150)	1:A:9:ILE:HG13	1:A:20:ARG:HE	8	0.23
(1,147)	1:A:19:GLN:HG2	1:A:10:TYR:HE1	16	0.23
(1,147)	1:A:19:GLN:HG2	1:A:10:TYR:HE2	16	0.23
(1,147)	1:A:19:GLN:HG3	1:A:10:TYR:HE1	16	0.23
(1,147)	1:A:19:GLN:HG3	1:A:10:TYR:HE2	16	0.23
(1,147)	1:A:19:GLN:HG2	1:A:10:TYR:HE1	20	0.23
(1,147)	1:A:19:GLN:HG2	1:A:10:TYR:HE2	20	0.23
(1,147)	1:A:19:GLN:HG3	1:A:10:TYR:HE1	20	0.23
(1,147)	1:A:19:GLN:HG3	1:A:10:TYR:HE2	20	0.23
(1,137)	1:A:20:ARG:HD2	1:A:9:ILE:H	13	0.23
(1,137)	1:A:20:ARG:HD3	1:A:9:ILE:H	13	0.23
(2,1)	1:A:3:LYS:HA	1:A:8:ILE:HA	2	0.22
(2,1)	1:A:3:LYS:HA	1:A:8:ILE:HA	7	0.22
(1,46)	1:A:17:LYS:HG2	1:A:18:CYS:H	18	0.22
(1,46)	1:A:17:LYS:HG3	1:A:18:CYS:H	18	0.22
(1,380)	1:B:46:ARG:H	1:A:6:VAL:HG11	11	0.22
(1,380)	1:B:46:ARG:H	1:A:6:VAL:HG12	11	0.22
(1,380)	1:B:46:ARG:H	1:A:6:VAL:HG13	11	0.22
(1,380)	1:B:46:ARG:H	1:A:6:VAL:HG21	11	0.22
(1,380)	1:B:46:ARG:H	1:A:6:VAL:HG22	11	0.22
(1,380)	1:B:46:ARG:H	1:A:6:VAL:HG23	11	0.22
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD11	20	0.22
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD12	20	0.22
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD13	20	0.22
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD11	5	0.22
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD12	5	0.22
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD13	5	0.22
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD11	17	0.22
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD12	17	0.22
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD13	17	0.22
(1,353)	1:B:43:CYS:HA	1:B:49:LYS:H	4	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,353)	1:B:43:CYS:HA	1:B:49:LYS:H	18	0.22
(1,336)	1:B:40:ILE:HG12	1:B:52:ARG:HE	17	0.22
(1,336)	1:B:40:ILE:HG13	1:B:52:ARG:HE	17	0.22
(1,334)	1:B:51:GLN:HG2	1:B:42:TYR:HE1	11	0.22
(1,334)	1:B:51:GLN:HG2	1:B:42:TYR:HE2	11	0.22
(1,334)	1:B:51:GLN:HG3	1:B:42:TYR:HE1	11	0.22
(1,334)	1:B:51:GLN:HG3	1:B:42:TYR:HE2	11	0.22
(1,325)	1:B:50:CYS:HA	1:B:42:TYR:H	1	0.22
(1,325)	1:B:50:CYS:HA	1:B:42:TYR:H	16	0.22
(1,322)	1:B:53:MET:HG2	1:B:40:ILE:H	14	0.22
(1,322)	1:B:53:MET:HG3	1:B:40:ILE:H	14	0.22
(1,31)	1:A:10:TYR:H	1:A:11:CYS:H	3	0.22
(1,31)	1:A:10:TYR:H	1:A:11:CYS:H	10	0.22
(1,31)	1:A:10:TYR:H	1:A:11:CYS:H	11	0.22
(1,31)	1:A:10:TYR:H	1:A:11:CYS:H	14	0.22
(1,304)	1:B:50:CYS:HB2	1:B:50:CYS:H	17	0.22
(1,304)	1:B:50:CYS:HB3	1:B:50:CYS:H	17	0.22
(1,30)	1:A:10:TYR:HB2	1:A:11:CYS:H	12	0.22
(1,30)	1:A:10:TYR:HB3	1:A:11:CYS:H	12	0.22
(1,27)	1:A:9:ILE:HG21	1:A:10:TYR:HD1	14	0.22
(1,27)	1:A:9:ILE:HG21	1:A:10:TYR:HD2	14	0.22
(1,27)	1:A:9:ILE:HG22	1:A:10:TYR:HD1	14	0.22
(1,27)	1:A:9:ILE:HG22	1:A:10:TYR:HD2	14	0.22
(1,27)	1:A:9:ILE:HG23	1:A:10:TYR:HD1	14	0.22
(1,27)	1:A:9:ILE:HG23	1:A:10:TYR:HD2	14	0.22
(1,25)	1:A:9:ILE:HA	1:A:10:TYR:HD1	10	0.22
(1,25)	1:A:9:ILE:HA	1:A:10:TYR:HD2	10	0.22
(1,25)	1:A:9:ILE:HA	1:A:10:TYR:HD1	14	0.22
(1,25)	1:A:9:ILE:HA	1:A:10:TYR:HD2	14	0.22
(1,25)	1:A:9:ILE:HA	1:A:10:TYR:HD1	17	0.22
(1,25)	1:A:9:ILE:HA	1:A:10:TYR:HD2	17	0.22
(1,223)	1:B:45:ARG:HA	1:B:46:ARG:HE	9	0.22
(1,223)	1:B:45:ARG:HA	1:B:46:ARG:HE	11	0.22
(1,218)	1:B:42:TYR:H	1:B:43:CYS:H	3	0.22
(1,218)	1:B:42:TYR:H	1:B:43:CYS:H	5	0.22
(1,217)	1:B:42:TYR:HB2	1:B:43:CYS:H	7	0.22
(1,217)	1:B:42:TYR:HB3	1:B:43:CYS:H	7	0.22
(1,217)	1:B:42:TYR:HB2	1:B:43:CYS:H	15	0.22
(1,217)	1:B:42:TYR:HB3	1:B:43:CYS:H	15	0.22
(1,217)	1:B:42:TYR:HB2	1:B:43:CYS:H	16	0.22
(1,217)	1:B:42:TYR:HB3	1:B:43:CYS:H	16	0.22
(1,217)	1:B:42:TYR:HB2	1:B:43:CYS:H	19	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,217)	1:B:42:TYR:HB3	1:B:43:CYS:H	19	0.22
(1,214)	1:B:41:ILE:HG21	1:B:42:TYR:HD1	18	0.22
(1,214)	1:B:41:ILE:HG21	1:B:42:TYR:HD2	18	0.22
(1,214)	1:B:41:ILE:HG22	1:B:42:TYR:HD1	18	0.22
(1,214)	1:B:41:ILE:HG22	1:B:42:TYR:HD2	18	0.22
(1,214)	1:B:41:ILE:HG23	1:B:42:TYR:HD1	18	0.22
(1,214)	1:B:41:ILE:HG23	1:B:42:TYR:HD2	18	0.22
(1,212)	1:B:41:ILE:HA	1:B:42:TYR:HD1	3	0.22
(1,212)	1:B:41:ILE:HA	1:B:42:TYR:HD2	3	0.22
(1,212)	1:B:41:ILE:HA	1:B:42:TYR:HD1	10	0.22
(1,212)	1:B:41:ILE:HA	1:B:42:TYR:HD2	10	0.22
(1,212)	1:B:41:ILE:HA	1:B:42:TYR:HD1	12	0.22
(1,212)	1:B:41:ILE:HA	1:B:42:TYR:HD2	12	0.22
(1,207)	1:B:40:ILE:HG21	1:B:41:ILE:H	12	0.22
(1,207)	1:B:40:ILE:HG22	1:B:41:ILE:H	12	0.22
(1,207)	1:B:40:ILE:HG23	1:B:41:ILE:H	12	0.22
(1,205)	1:B:38:VAL:HG11	1:B:39:PRO:HD2	16	0.22
(1,205)	1:B:38:VAL:HG11	1:B:39:PRO:HD3	16	0.22
(1,205)	1:B:38:VAL:HG12	1:B:39:PRO:HD2	16	0.22
(1,205)	1:B:38:VAL:HG12	1:B:39:PRO:HD3	16	0.22
(1,205)	1:B:38:VAL:HG13	1:B:39:PRO:HD2	16	0.22
(1,205)	1:B:38:VAL:HG13	1:B:39:PRO:HD3	16	0.22
(1,205)	1:B:38:VAL:HG21	1:B:39:PRO:HD2	16	0.22
(1,205)	1:B:38:VAL:HG21	1:B:39:PRO:HD3	16	0.22
(1,205)	1:B:38:VAL:HG22	1:B:39:PRO:HD2	16	0.22
(1,205)	1:B:38:VAL:HG22	1:B:39:PRO:HD3	16	0.22
(1,205)	1:B:38:VAL:HG23	1:B:39:PRO:HD2	16	0.22
(1,205)	1:B:38:VAL:HG23	1:B:39:PRO:HD3	16	0.22
(1,203)	1:B:34:SER:HB2	1:B:35:LYS:H	2	0.22
(1,203)	1:B:34:SER:HB3	1:B:35:LYS:H	2	0.22
(1,203)	1:B:34:SER:HB2	1:B:35:LYS:H	3	0.22
(1,203)	1:B:34:SER:HB3	1:B:35:LYS:H	3	0.22
(1,203)	1:B:34:SER:HB2	1:B:35:LYS:H	4	0.22
(1,203)	1:B:34:SER:HB3	1:B:35:LYS:H	4	0.22
(1,203)	1:B:34:SER:HB2	1:B:35:LYS:H	6	0.22
(1,203)	1:B:34:SER:HB3	1:B:35:LYS:H	6	0.22
(1,203)	1:B:34:SER:HB2	1:B:35:LYS:H	9	0.22
(1,203)	1:B:34:SER:HB3	1:B:35:LYS:H	9	0.22
(1,203)	1:B:34:SER:HB2	1:B:35:LYS:H	17	0.22
(1,203)	1:B:34:SER:HB3	1:B:35:LYS:H	17	0.22
(1,2)	1:A:3:LYS:HA	1:A:4:LYS:H	15	0.22
(1,2)	1:A:3:LYS:HA	1:A:4:LYS:H	16	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2)	1:A:3:LYS:HA	1:A:4:LYS:H	19	0.22
(1,166)	1:A:11:CYS:HA	1:A:17:LYS:H	13	0.22
(1,147)	1:A:19:GLN:HG2	1:A:10:TYR:HE1	11	0.22
(1,147)	1:A:19:GLN:HG2	1:A:10:TYR:HE2	11	0.22
(1,147)	1:A:19:GLN:HG3	1:A:10:TYR:HE1	11	0.22
(1,147)	1:A:19:GLN:HG3	1:A:10:TYR:HE2	11	0.22
(1,138)	1:A:18:CYS:HA	1:A:10:TYR:H	9	0.22
(1,135)	1:A:21:MET:HG2	1:A:8:ILE:H	13	0.22
(1,135)	1:A:21:MET:HG3	1:A:8:ILE:H	13	0.22
(1,130)	1:A:20:ARG:HD2	1:A:20:ARG:H	5	0.22
(1,130)	1:A:20:ARG:HD3	1:A:20:ARG:H	5	0.22
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD11	11	0.21
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD12	11	0.21
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD13	11	0.21
(1,375)	1:A:6:VAL:HG11	1:B:43:CYS:H	1	0.21
(1,375)	1:A:6:VAL:HG12	1:B:43:CYS:H	1	0.21
(1,375)	1:A:6:VAL:HG13	1:B:43:CYS:H	1	0.21
(1,375)	1:A:6:VAL:HG21	1:B:43:CYS:H	1	0.21
(1,375)	1:A:6:VAL:HG22	1:B:43:CYS:H	1	0.21
(1,375)	1:A:6:VAL:HG23	1:B:43:CYS:H	1	0.21
(1,375)	1:A:6:VAL:HG11	1:B:43:CYS:H	5	0.21
(1,375)	1:A:6:VAL:HG12	1:B:43:CYS:H	5	0.21
(1,375)	1:A:6:VAL:HG13	1:B:43:CYS:H	5	0.21
(1,375)	1:A:6:VAL:HG21	1:B:43:CYS:H	5	0.21
(1,375)	1:A:6:VAL:HG22	1:B:43:CYS:H	5	0.21
(1,375)	1:A:6:VAL:HG23	1:B:43:CYS:H	5	0.21
(1,371)	1:B:38:VAL:HG11	1:B:53:MET:H	18	0.21
(1,371)	1:B:38:VAL:HG12	1:B:53:MET:H	18	0.21
(1,371)	1:B:38:VAL:HG13	1:B:53:MET:H	18	0.21
(1,371)	1:B:38:VAL:HG21	1:B:53:MET:H	18	0.21
(1,371)	1:B:38:VAL:HG22	1:B:53:MET:H	18	0.21
(1,371)	1:B:38:VAL:HG23	1:B:53:MET:H	18	0.21
(1,367)	1:B:48:GLY:HA2	1:B:47:THR:H	1	0.21
(1,367)	1:B:48:GLY:HA3	1:B:47:THR:H	1	0.21
(1,353)	1:B:43:CYS:HA	1:B:49:LYS:H	5	0.21
(1,351)	1:B:50:CYS:HA	1:B:43:CYS:HB2	11	0.21
(1,351)	1:B:50:CYS:HA	1:B:43:CYS:HB3	11	0.21
(1,35)	1:A:12:ASN:HD21	1:A:13:ARG:H	7	0.21
(1,35)	1:A:12:ASN:HD22	1:A:13:ARG:H	7	0.21
(1,347)	1:B:43:CYS:HA	1:B:51:GLN:H	12	0.21
(1,347)	1:B:43:CYS:HA	1:B:51:GLN:H	17	0.21
(1,341)	1:B:40:ILE:HD11	1:B:53:MET:H	19	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,341)	1:B:40:ILE:HD12	1:B:53:MET:H	19	0.21
(1,341)	1:B:40:ILE:HD13	1:B:53:MET:H	19	0.21
(1,322)	1:B:53:MET:HG2	1:B:40:ILE:H	9	0.21
(1,322)	1:B:53:MET:HG3	1:B:40:ILE:H	9	0.21
(1,31)	1:A:10:TYR:H	1:A:11:CYS:H	6	0.21
(1,31)	1:A:10:TYR:H	1:A:11:CYS:H	17	0.21
(1,31)	1:A:10:TYR:H	1:A:11:CYS:H	18	0.21
(1,30)	1:A:10:TYR:HB2	1:A:11:CYS:H	1	0.21
(1,30)	1:A:10:TYR:HB3	1:A:11:CYS:H	1	0.21
(1,30)	1:A:10:TYR:HB2	1:A:11:CYS:H	2	0.21
(1,30)	1:A:10:TYR:HB3	1:A:11:CYS:H	2	0.21
(1,294)	1:B:46:ARG:HB2	1:B:46:ARG:H	17	0.21
(1,294)	1:B:46:ARG:HB3	1:B:46:ARG:H	17	0.21
(1,251)	1:B:38:VAL:HB	1:B:38:VAL:H	9	0.21
(1,25)	1:A:9:ILE:HA	1:A:10:TYR:HD1	9	0.21
(1,25)	1:A:9:ILE:HA	1:A:10:TYR:HD2	9	0.21
(1,25)	1:A:9:ILE:HA	1:A:10:TYR:HD1	13	0.21
(1,25)	1:A:9:ILE:HA	1:A:10:TYR:HD2	13	0.21
(1,239)	1:B:35:LYS:HB2	1:B:35:LYS:H	4	0.21
(1,239)	1:B:35:LYS:HB3	1:B:35:LYS:H	4	0.21
(1,223)	1:B:45:ARG:HA	1:B:46:ARG:HE	14	0.21
(1,223)	1:B:45:ARG:HA	1:B:46:ARG:HE	18	0.21
(1,222)	1:B:44:ASN:HD21	1:B:45:ARG:H	17	0.21
(1,222)	1:B:44:ASN:HD22	1:B:45:ARG:H	17	0.21
(1,221)	1:B:44:ASN:HB2	1:B:45:ARG:H	9	0.21
(1,221)	1:B:44:ASN:HB3	1:B:45:ARG:H	9	0.21
(1,221)	1:B:44:ASN:HB2	1:B:45:ARG:H	19	0.21
(1,221)	1:B:44:ASN:HB3	1:B:45:ARG:H	19	0.21
(1,219)	1:B:42:TYR:HD1	1:B:43:CYS:H	16	0.21
(1,219)	1:B:42:TYR:HD2	1:B:43:CYS:H	16	0.21
(1,218)	1:B:42:TYR:H	1:B:43:CYS:H	2	0.21
(1,218)	1:B:42:TYR:H	1:B:43:CYS:H	8	0.21
(1,218)	1:B:42:TYR:H	1:B:43:CYS:H	20	0.21
(1,217)	1:B:42:TYR:HB2	1:B:43:CYS:H	4	0.21
(1,217)	1:B:42:TYR:HB3	1:B:43:CYS:H	4	0.21
(1,217)	1:B:42:TYR:HB2	1:B:43:CYS:H	17	0.21
(1,217)	1:B:42:TYR:HB3	1:B:43:CYS:H	17	0.21
(1,214)	1:B:41:ILE:HG21	1:B:42:TYR:HD1	1	0.21
(1,214)	1:B:41:ILE:HG21	1:B:42:TYR:HD2	1	0.21
(1,214)	1:B:41:ILE:HG22	1:B:42:TYR:HD1	1	0.21
(1,214)	1:B:41:ILE:HG22	1:B:42:TYR:HD2	1	0.21
(1,214)	1:B:41:ILE:HG23	1:B:42:TYR:HD1	1	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,214)	1:B:41:ILE:HG23	1:B:42:TYR:HD2	1	0.21
(1,214)	1:B:41:ILE:HG21	1:B:42:TYR:HD1	19	0.21
(1,214)	1:B:41:ILE:HG21	1:B:42:TYR:HD2	19	0.21
(1,214)	1:B:41:ILE:HG22	1:B:42:TYR:HD1	19	0.21
(1,214)	1:B:41:ILE:HG22	1:B:42:TYR:HD2	19	0.21
(1,214)	1:B:41:ILE:HG23	1:B:42:TYR:HD1	19	0.21
(1,214)	1:B:41:ILE:HG23	1:B:42:TYR:HD2	19	0.21
(1,212)	1:B:41:ILE:HA	1:B:42:TYR:HD1	9	0.21
(1,212)	1:B:41:ILE:HA	1:B:42:TYR:HD2	9	0.21
(1,207)	1:B:40:ILE:HG21	1:B:41:ILE:H	3	0.21
(1,207)	1:B:40:ILE:HG22	1:B:41:ILE:H	3	0.21
(1,207)	1:B:40:ILE:HG23	1:B:41:ILE:H	3	0.21
(1,20)	1:A:8:ILE:HG21	1:A:9:ILE:H	3	0.21
(1,20)	1:A:8:ILE:HG22	1:A:9:ILE:H	3	0.21
(1,20)	1:A:8:ILE:HG23	1:A:9:ILE:H	3	0.21
(1,147)	1:A:19:GLN:HG2	1:A:10:TYR:HE1	7	0.21
(1,147)	1:A:19:GLN:HG2	1:A:10:TYR:HE2	7	0.21
(1,147)	1:A:19:GLN:HG3	1:A:10:TYR:HE1	7	0.21
(1,147)	1:A:19:GLN:HG3	1:A:10:TYR:HE2	7	0.21
(1,138)	1:A:18:CYS:HA	1:A:10:TYR:H	6	0.21
(1,138)	1:A:18:CYS:HA	1:A:10:TYR:H	14	0.21
(1,137)	1:A:20:ARG:HD2	1:A:9:ILE:H	2	0.21
(1,137)	1:A:20:ARG:HD3	1:A:9:ILE:H	2	0.21
(1,135)	1:A:21:MET:HG2	1:A:8:ILE:H	16	0.21
(1,135)	1:A:21:MET:HG3	1:A:8:ILE:H	16	0.21
(1,126)	1:A:20:ARG:HA	1:A:20:ARG:HE	20	0.21
(1,107)	1:A:14:ARG:HB2	1:A:14:ARG:H	7	0.21
(1,107)	1:A:14:ARG:HB3	1:A:14:ARG:H	7	0.21
(2,1)	1:A:3:LYS:HA	1:A:8:ILE:HA	1	0.2
(1,64)	1:A:6:VAL:HB	1:A:6:VAL:H	18	0.2
(1,52)	1:A:3:LYS:HB2	1:A:3:LYS:H	6	0.2
(1,52)	1:A:3:LYS:HB3	1:A:3:LYS:H	6	0.2
(1,47)	1:A:19:GLN:HE21	1:A:20:ARG:H	20	0.2
(1,47)	1:A:19:GLN:HE22	1:A:20:ARG:H	20	0.2
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD11	8	0.2
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD12	8	0.2
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD13	8	0.2
(1,373)	1:B:52:ARG:HD2	1:B:38:VAL:H	1	0.2
(1,373)	1:B:52:ARG:HD3	1:B:38:VAL:H	1	0.2
(1,367)	1:B:48:GLY:HA2	1:B:47:THR:H	2	0.2
(1,367)	1:B:48:GLY:HA3	1:B:47:THR:H	2	0.2
(1,365)	1:B:47:THR:HG21	1:B:46:ARG:HE	14	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,365)	1:B:47:THR:HG22	1:B:46:ARG:HE	14	0.2
(1,365)	1:B:47:THR:HG23	1:B:46:ARG:HE	14	0.2
(1,359)	1:B:40:ILE:HD11	1:B:39:PRO:HD2	13	0.2
(1,359)	1:B:40:ILE:HD11	1:B:39:PRO:HD3	13	0.2
(1,359)	1:B:40:ILE:HD12	1:B:39:PRO:HD2	13	0.2
(1,359)	1:B:40:ILE:HD12	1:B:39:PRO:HD3	13	0.2
(1,359)	1:B:40:ILE:HD13	1:B:39:PRO:HD2	13	0.2
(1,359)	1:B:40:ILE:HD13	1:B:39:PRO:HD3	13	0.2
(1,35)	1:A:12:ASN:HD21	1:A:13:ARG:H	20	0.2
(1,35)	1:A:12:ASN:HD22	1:A:13:ARG:H	20	0.2
(1,34)	1:A:12:ASN:HB2	1:A:13:ARG:H	20	0.2
(1,34)	1:A:12:ASN:HB3	1:A:13:ARG:H	20	0.2
(1,334)	1:B:51:GLN:HG2	1:B:42:TYR:HE1	9	0.2
(1,334)	1:B:51:GLN:HG2	1:B:42:TYR:HE2	9	0.2
(1,334)	1:B:51:GLN:HG3	1:B:42:TYR:HE1	9	0.2
(1,334)	1:B:51:GLN:HG3	1:B:42:TYR:HE2	9	0.2
(1,325)	1:B:50:CYS:HA	1:B:42:TYR:H	7	0.2
(1,325)	1:B:50:CYS:HA	1:B:42:TYR:H	14	0.2
(1,31)	1:A:10:TYR:H	1:A:11:CYS:H	9	0.2
(1,31)	1:A:10:TYR:H	1:A:11:CYS:H	13	0.2
(1,304)	1:B:50:CYS:HB2	1:B:50:CYS:H	3	0.2
(1,304)	1:B:50:CYS:HB3	1:B:50:CYS:H	3	0.2
(1,304)	1:B:50:CYS:HB2	1:B:50:CYS:H	16	0.2
(1,304)	1:B:50:CYS:HB3	1:B:50:CYS:H	16	0.2
(1,295)	1:B:46:ARG:HD2	1:B:46:ARG:H	19	0.2
(1,295)	1:B:46:ARG:HD3	1:B:46:ARG:H	19	0.2
(1,27)	1:A:9:ILE:HG21	1:A:10:TYR:HD1	1	0.2
(1,27)	1:A:9:ILE:HG21	1:A:10:TYR:HD2	1	0.2
(1,27)	1:A:9:ILE:HG22	1:A:10:TYR:HD1	1	0.2
(1,27)	1:A:9:ILE:HG22	1:A:10:TYR:HD2	1	0.2
(1,27)	1:A:9:ILE:HG23	1:A:10:TYR:HD1	1	0.2
(1,27)	1:A:9:ILE:HG23	1:A:10:TYR:HD2	1	0.2
(1,27)	1:A:9:ILE:HG21	1:A:10:TYR:HD1	2	0.2
(1,27)	1:A:9:ILE:HG21	1:A:10:TYR:HD2	2	0.2
(1,27)	1:A:9:ILE:HG22	1:A:10:TYR:HD1	2	0.2
(1,27)	1:A:9:ILE:HG22	1:A:10:TYR:HD2	2	0.2
(1,27)	1:A:9:ILE:HG23	1:A:10:TYR:HD1	2	0.2
(1,27)	1:A:9:ILE:HG23	1:A:10:TYR:HD2	2	0.2
(1,27)	1:A:9:ILE:HG21	1:A:10:TYR:HD1	6	0.2
(1,27)	1:A:9:ILE:HG21	1:A:10:TYR:HD2	6	0.2
(1,27)	1:A:9:ILE:HG22	1:A:10:TYR:HD1	6	0.2
(1,27)	1:A:9:ILE:HG22	1:A:10:TYR:HD2	6	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,27)	1:A:9:ILE:HG23	1:A:10:TYR:HD1	6	0.2
(1,27)	1:A:9:ILE:HG23	1:A:10:TYR:HD2	6	0.2
(1,27)	1:A:9:ILE:HG21	1:A:10:TYR:HD1	17	0.2
(1,27)	1:A:9:ILE:HG21	1:A:10:TYR:HD2	17	0.2
(1,27)	1:A:9:ILE:HG22	1:A:10:TYR:HD1	17	0.2
(1,27)	1:A:9:ILE:HG22	1:A:10:TYR:HD2	17	0.2
(1,27)	1:A:9:ILE:HG23	1:A:10:TYR:HD1	17	0.2
(1,27)	1:A:9:ILE:HG23	1:A:10:TYR:HD2	17	0.2
(1,27)	1:A:9:ILE:HG21	1:A:10:TYR:HD1	20	0.2
(1,27)	1:A:9:ILE:HG21	1:A:10:TYR:HD2	20	0.2
(1,27)	1:A:9:ILE:HG22	1:A:10:TYR:HD1	20	0.2
(1,27)	1:A:9:ILE:HG22	1:A:10:TYR:HD2	20	0.2
(1,27)	1:A:9:ILE:HG23	1:A:10:TYR:HD1	20	0.2
(1,27)	1:A:9:ILE:HG23	1:A:10:TYR:HD2	20	0.2
(1,234)	1:B:51:GLN:HE21	1:B:52:ARG:H	19	0.2
(1,234)	1:B:51:GLN:HE22	1:B:52:ARG:H	19	0.2
(1,233)	1:B:49:LYS:HG2	1:B:50:CYS:H	7	0.2
(1,233)	1:B:49:LYS:HG3	1:B:50:CYS:H	7	0.2
(1,223)	1:B:45:ARG:HA	1:B:46:ARG:HE	12	0.2
(1,222)	1:B:44:ASN:HD21	1:B:45:ARG:H	13	0.2
(1,222)	1:B:44:ASN:HD22	1:B:45:ARG:H	13	0.2
(1,219)	1:B:42:TYR:HD1	1:B:43:CYS:H	19	0.2
(1,219)	1:B:42:TYR:HD2	1:B:43:CYS:H	19	0.2
(1,218)	1:B:42:TYR:H	1:B:43:CYS:H	1	0.2
(1,218)	1:B:42:TYR:H	1:B:43:CYS:H	10	0.2
(1,218)	1:B:42:TYR:H	1:B:43:CYS:H	14	0.2
(1,217)	1:B:42:TYR:HB2	1:B:43:CYS:H	1	0.2
(1,217)	1:B:42:TYR:HB3	1:B:43:CYS:H	1	0.2
(1,217)	1:B:42:TYR:HB2	1:B:43:CYS:H	13	0.2
(1,217)	1:B:42:TYR:HB3	1:B:43:CYS:H	13	0.2
(1,214)	1:B:41:ILE:HG21	1:B:42:TYR:HD1	5	0.2
(1,214)	1:B:41:ILE:HG21	1:B:42:TYR:HD2	5	0.2
(1,214)	1:B:41:ILE:HG22	1:B:42:TYR:HD1	5	0.2
(1,214)	1:B:41:ILE:HG22	1:B:42:TYR:HD2	5	0.2
(1,214)	1:B:41:ILE:HG23	1:B:42:TYR:HD1	5	0.2
(1,214)	1:B:41:ILE:HG23	1:B:42:TYR:HD2	5	0.2
(1,212)	1:B:41:ILE:HA	1:B:42:TYR:HD1	14	0.2
(1,212)	1:B:41:ILE:HA	1:B:42:TYR:HD2	14	0.2
(1,212)	1:B:41:ILE:HA	1:B:42:TYR:HD1	20	0.2
(1,212)	1:B:41:ILE:HA	1:B:42:TYR:HD2	20	0.2
(1,206)	1:B:39:PRO:HB2	1:B:40:ILE:H	7	0.2
(1,206)	1:B:39:PRO:HB3	1:B:40:ILE:H	7	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,206)	1:B:39:PRO:HB2	1:B:40:ILE:H	13	0.2
(1,206)	1:B:39:PRO:HB3	1:B:40:ILE:H	13	0.2
(1,206)	1:B:39:PRO:HB2	1:B:40:ILE:H	20	0.2
(1,206)	1:B:39:PRO:HB3	1:B:40:ILE:H	20	0.2
(1,20)	1:A:8:ILE:HG21	1:A:9:ILE:H	7	0.2
(1,20)	1:A:8:ILE:HG22	1:A:9:ILE:H	7	0.2
(1,20)	1:A:8:ILE:HG23	1:A:9:ILE:H	7	0.2
(1,20)	1:A:8:ILE:HG21	1:A:9:ILE:H	9	0.2
(1,20)	1:A:8:ILE:HG22	1:A:9:ILE:H	9	0.2
(1,20)	1:A:8:ILE:HG23	1:A:9:ILE:H	9	0.2
(1,20)	1:A:8:ILE:HG21	1:A:9:ILE:H	10	0.2
(1,20)	1:A:8:ILE:HG22	1:A:9:ILE:H	10	0.2
(1,20)	1:A:8:ILE:HG23	1:A:9:ILE:H	10	0.2
(1,20)	1:A:8:ILE:HG21	1:A:9:ILE:H	18	0.2
(1,20)	1:A:8:ILE:HG22	1:A:9:ILE:H	18	0.2
(1,20)	1:A:8:ILE:HG23	1:A:9:ILE:H	18	0.2
(1,180)	1:A:16:GLY:HA2	1:A:15:THR:H	3	0.2
(1,180)	1:A:16:GLY:HA3	1:A:15:THR:H	3	0.2
(1,160)	1:A:11:CYS:HA	1:A:19:GLN:H	5	0.2
(1,147)	1:A:19:GLN:HG2	1:A:10:TYR:HE1	9	0.2
(1,147)	1:A:19:GLN:HG2	1:A:10:TYR:HE2	9	0.2
(1,147)	1:A:19:GLN:HG3	1:A:10:TYR:HE1	9	0.2
(1,147)	1:A:19:GLN:HG3	1:A:10:TYR:HE2	9	0.2
(1,147)	1:A:19:GLN:HG2	1:A:10:TYR:HE1	10	0.2
(1,147)	1:A:19:GLN:HG2	1:A:10:TYR:HE2	10	0.2
(1,147)	1:A:19:GLN:HG3	1:A:10:TYR:HE1	10	0.2
(1,147)	1:A:19:GLN:HG3	1:A:10:TYR:HE2	10	0.2
(1,145)	1:A:19:GLN:HA	1:A:10:TYR:HE1	11	0.2
(1,145)	1:A:19:GLN:HA	1:A:10:TYR:HE2	11	0.2
(1,145)	1:A:19:GLN:HA	1:A:10:TYR:HE1	17	0.2
(1,145)	1:A:19:GLN:HA	1:A:10:TYR:HE2	17	0.2
(1,138)	1:A:18:CYS:HA	1:A:10:TYR:H	7	0.2
(1,138)	1:A:18:CYS:HA	1:A:10:TYR:H	19	0.2
(1,137)	1:A:20:ARG:HD2	1:A:9:ILE:H	6	0.2
(1,137)	1:A:20:ARG:HD3	1:A:9:ILE:H	6	0.2
(1,137)	1:A:20:ARG:HD2	1:A:9:ILE:H	15	0.2
(1,137)	1:A:20:ARG:HD3	1:A:9:ILE:H	15	0.2
(1,107)	1:A:14:ARG:HB2	1:A:14:ARG:H	3	0.2
(1,107)	1:A:14:ARG:HB3	1:A:14:ARG:H	3	0.2
(2,1)	1:A:3:LYS:HA	1:A:8:ILE:HA	13	0.19
(2,1)	1:A:3:LYS:HA	1:A:8:ILE:HA	19	0.19
(1,46)	1:A:17:LYS:HG2	1:A:18:CYS:H	3	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,46)	1:A:17:LYS:HG3	1:A:18:CYS:H	3	0.19
(1,46)	1:A:17:LYS:HG2	1:A:18:CYS:H	12	0.19
(1,46)	1:A:17:LYS:HG3	1:A:18:CYS:H	12	0.19
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD11	17	0.19
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD12	17	0.19
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD13	17	0.19
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD11	2	0.19
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD12	2	0.19
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD13	2	0.19
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD11	15	0.19
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD12	15	0.19
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD13	15	0.19
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD11	19	0.19
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD12	19	0.19
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD13	19	0.19
(1,374)	1:B:38:VAL:HG11	1:B:41:ILE:H	7	0.19
(1,374)	1:B:38:VAL:HG12	1:B:41:ILE:H	7	0.19
(1,374)	1:B:38:VAL:HG13	1:B:41:ILE:H	7	0.19
(1,374)	1:B:38:VAL:HG21	1:B:41:ILE:H	7	0.19
(1,374)	1:B:38:VAL:HG22	1:B:41:ILE:H	7	0.19
(1,374)	1:B:38:VAL:HG23	1:B:41:ILE:H	7	0.19
(1,371)	1:B:38:VAL:HG11	1:B:53:MET:H	16	0.19
(1,371)	1:B:38:VAL:HG12	1:B:53:MET:H	16	0.19
(1,371)	1:B:38:VAL:HG13	1:B:53:MET:H	16	0.19
(1,371)	1:B:38:VAL:HG21	1:B:53:MET:H	16	0.19
(1,371)	1:B:38:VAL:HG22	1:B:53:MET:H	16	0.19
(1,371)	1:B:38:VAL:HG23	1:B:53:MET:H	16	0.19
(1,364)	1:B:47:THR:H	1:B:46:ARG:H	12	0.19
(1,36)	1:A:13:ARG:HA	1:A:14:ARG:HE	20	0.19
(1,353)	1:B:43:CYS:HA	1:B:49:LYS:H	3	0.19
(1,353)	1:B:43:CYS:HA	1:B:49:LYS:H	11	0.19
(1,35)	1:A:12:ASN:HD21	1:A:13:ARG:H	5	0.19
(1,35)	1:A:12:ASN:HD22	1:A:13:ARG:H	5	0.19
(1,35)	1:A:12:ASN:HD21	1:A:13:ARG:H	6	0.19
(1,35)	1:A:12:ASN:HD22	1:A:13:ARG:H	6	0.19
(1,35)	1:A:12:ASN:HD21	1:A:13:ARG:H	8	0.19
(1,35)	1:A:12:ASN:HD22	1:A:13:ARG:H	8	0.19
(1,35)	1:A:12:ASN:HD21	1:A:13:ARG:H	11	0.19
(1,35)	1:A:12:ASN:HD22	1:A:13:ARG:H	11	0.19
(1,35)	1:A:12:ASN:HD21	1:A:13:ARG:H	17	0.19
(1,35)	1:A:12:ASN:HD22	1:A:13:ARG:H	17	0.19
(1,35)	1:A:12:ASN:HD21	1:A:13:ARG:H	19	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,35)	1:A:12:ASN:HD22	1:A:13:ARG:H	19	0.19
(1,347)	1:B:43:CYS:HA	1:B:51:GLN:H	10	0.19
(1,334)	1:B:51:GLN:HG2	1:B:42:TYR:HE1	3	0.19
(1,334)	1:B:51:GLN:HG2	1:B:42:TYR:HE2	3	0.19
(1,334)	1:B:51:GLN:HG3	1:B:42:TYR:HE1	3	0.19
(1,334)	1:B:51:GLN:HG3	1:B:42:TYR:HE2	3	0.19
(1,334)	1:B:51:GLN:HG2	1:B:42:TYR:HE1	5	0.19
(1,334)	1:B:51:GLN:HG2	1:B:42:TYR:HE2	5	0.19
(1,334)	1:B:51:GLN:HG3	1:B:42:TYR:HE1	5	0.19
(1,334)	1:B:51:GLN:HG3	1:B:42:TYR:HE2	5	0.19
(1,332)	1:B:51:GLN:HA	1:B:42:TYR:HE1	5	0.19
(1,332)	1:B:51:GLN:HA	1:B:42:TYR:HE2	5	0.19
(1,332)	1:B:51:GLN:HA	1:B:42:TYR:HE1	11	0.19
(1,332)	1:B:51:GLN:HA	1:B:42:TYR:HE2	11	0.19
(1,324)	1:B:52:ARG:HD2	1:B:41:ILE:H	4	0.19
(1,324)	1:B:52:ARG:HD3	1:B:41:ILE:H	4	0.19
(1,322)	1:B:53:MET:HG2	1:B:40:ILE:H	4	0.19
(1,322)	1:B:53:MET:HG3	1:B:40:ILE:H	4	0.19
(1,31)	1:A:10:TYR:H	1:A:11:CYS:H	2	0.19
(1,31)	1:A:10:TYR:H	1:A:11:CYS:H	4	0.19
(1,304)	1:B:50:CYS:HB2	1:B:50:CYS:H	9	0.19
(1,304)	1:B:50:CYS:HB3	1:B:50:CYS:H	9	0.19
(1,30)	1:A:10:TYR:HB2	1:A:11:CYS:H	4	0.19
(1,30)	1:A:10:TYR:HB3	1:A:11:CYS:H	4	0.19
(1,30)	1:A:10:TYR:HB2	1:A:11:CYS:H	6	0.19
(1,30)	1:A:10:TYR:HB3	1:A:11:CYS:H	6	0.19
(1,30)	1:A:10:TYR:HB2	1:A:11:CYS:H	13	0.19
(1,30)	1:A:10:TYR:HB3	1:A:11:CYS:H	13	0.19
(1,294)	1:B:46:ARG:HB2	1:B:46:ARG:H	7	0.19
(1,294)	1:B:46:ARG:HB3	1:B:46:ARG:H	7	0.19
(1,294)	1:B:46:ARG:HB2	1:B:46:ARG:H	19	0.19
(1,294)	1:B:46:ARG:HB3	1:B:46:ARG:H	19	0.19
(1,27)	1:A:9:ILE:HG21	1:A:10:TYR:HD1	3	0.19
(1,27)	1:A:9:ILE:HG21	1:A:10:TYR:HD2	3	0.19
(1,27)	1:A:9:ILE:HG22	1:A:10:TYR:HD1	3	0.19
(1,27)	1:A:9:ILE:HG22	1:A:10:TYR:HD2	3	0.19
(1,27)	1:A:9:ILE:HG23	1:A:10:TYR:HD1	3	0.19
(1,27)	1:A:9:ILE:HG23	1:A:10:TYR:HD2	3	0.19
(1,27)	1:A:9:ILE:HG21	1:A:10:TYR:HD1	11	0.19
(1,27)	1:A:9:ILE:HG21	1:A:10:TYR:HD2	11	0.19
(1,27)	1:A:9:ILE:HG22	1:A:10:TYR:HD1	11	0.19
(1,27)	1:A:9:ILE:HG22	1:A:10:TYR:HD2	11	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,27)	1:A:9:ILE:HG23	1:A:10:TYR:HD1	11	0.19
(1,27)	1:A:9:ILE:HG23	1:A:10:TYR:HD2	11	0.19
(1,27)	1:A:9:ILE:HG21	1:A:10:TYR:HD1	13	0.19
(1,27)	1:A:9:ILE:HG21	1:A:10:TYR:HD2	13	0.19
(1,27)	1:A:9:ILE:HG22	1:A:10:TYR:HD1	13	0.19
(1,27)	1:A:9:ILE:HG22	1:A:10:TYR:HD2	13	0.19
(1,27)	1:A:9:ILE:HG23	1:A:10:TYR:HD1	13	0.19
(1,27)	1:A:9:ILE:HG23	1:A:10:TYR:HD2	13	0.19
(1,27)	1:A:9:ILE:HG21	1:A:10:TYR:HD1	15	0.19
(1,27)	1:A:9:ILE:HG21	1:A:10:TYR:HD2	15	0.19
(1,27)	1:A:9:ILE:HG22	1:A:10:TYR:HD1	15	0.19
(1,27)	1:A:9:ILE:HG22	1:A:10:TYR:HD2	15	0.19
(1,27)	1:A:9:ILE:HG23	1:A:10:TYR:HD1	15	0.19
(1,27)	1:A:9:ILE:HG23	1:A:10:TYR:HD2	15	0.19
(1,251)	1:B:38:VAL:HB	1:B:38:VAL:H	7	0.19
(1,251)	1:B:38:VAL:HB	1:B:38:VAL:H	20	0.19
(1,25)	1:A:9:ILE:HA	1:A:10:TYR:HD1	4	0.19
(1,25)	1:A:9:ILE:HA	1:A:10:TYR:HD2	4	0.19
(1,25)	1:A:9:ILE:HA	1:A:10:TYR:HD1	7	0.19
(1,25)	1:A:9:ILE:HA	1:A:10:TYR:HD2	7	0.19
(1,25)	1:A:9:ILE:HA	1:A:10:TYR:HD1	12	0.19
(1,25)	1:A:9:ILE:HA	1:A:10:TYR:HD2	12	0.19
(1,25)	1:A:9:ILE:HA	1:A:10:TYR:HD1	15	0.19
(1,25)	1:A:9:ILE:HA	1:A:10:TYR:HD2	15	0.19
(1,25)	1:A:9:ILE:HA	1:A:10:TYR:HD1	19	0.19
(1,25)	1:A:9:ILE:HA	1:A:10:TYR:HD2	19	0.19
(1,232)	1:B:49:LYS:HD2	1:B:50:CYS:H	19	0.19
(1,232)	1:B:49:LYS:HD3	1:B:50:CYS:H	19	0.19
(1,223)	1:B:45:ARG:HA	1:B:46:ARG:HE	16	0.19
(1,222)	1:B:44:ASN:HD21	1:B:45:ARG:H	2	0.19
(1,222)	1:B:44:ASN:HD22	1:B:45:ARG:H	2	0.19
(1,222)	1:B:44:ASN:HD21	1:B:45:ARG:H	6	0.19
(1,222)	1:B:44:ASN:HD22	1:B:45:ARG:H	6	0.19
(1,222)	1:B:44:ASN:HD21	1:B:45:ARG:H	9	0.19
(1,222)	1:B:44:ASN:HD22	1:B:45:ARG:H	9	0.19
(1,222)	1:B:44:ASN:HD21	1:B:45:ARG:H	15	0.19
(1,222)	1:B:44:ASN:HD22	1:B:45:ARG:H	15	0.19
(1,222)	1:B:44:ASN:HD21	1:B:45:ARG:H	16	0.19
(1,222)	1:B:44:ASN:HD22	1:B:45:ARG:H	16	0.19
(1,217)	1:B:42:TYR:HB2	1:B:43:CYS:H	2	0.19
(1,217)	1:B:42:TYR:HB3	1:B:43:CYS:H	2	0.19
(1,217)	1:B:42:TYR:HB2	1:B:43:CYS:H	10	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,217)	1:B:42:TYR:HB3	1:B:43:CYS:H	10	0.19
(1,217)	1:B:42:TYR:HB2	1:B:43:CYS:H	14	0.19
(1,217)	1:B:42:TYR:HB3	1:B:43:CYS:H	14	0.19
(1,214)	1:B:41:ILE:HG21	1:B:42:TYR:HD1	2	0.19
(1,214)	1:B:41:ILE:HG21	1:B:42:TYR:HD2	2	0.19
(1,214)	1:B:41:ILE:HG22	1:B:42:TYR:HD1	2	0.19
(1,214)	1:B:41:ILE:HG22	1:B:42:TYR:HD2	2	0.19
(1,214)	1:B:41:ILE:HG23	1:B:42:TYR:HD1	2	0.19
(1,214)	1:B:41:ILE:HG23	1:B:42:TYR:HD2	2	0.19
(1,214)	1:B:41:ILE:HG21	1:B:42:TYR:HD1	4	0.19
(1,214)	1:B:41:ILE:HG21	1:B:42:TYR:HD2	4	0.19
(1,214)	1:B:41:ILE:HG22	1:B:42:TYR:HD1	4	0.19
(1,214)	1:B:41:ILE:HG22	1:B:42:TYR:HD2	4	0.19
(1,214)	1:B:41:ILE:HG23	1:B:42:TYR:HD1	4	0.19
(1,214)	1:B:41:ILE:HG23	1:B:42:TYR:HD2	4	0.19
(1,214)	1:B:41:ILE:HG21	1:B:42:TYR:HD1	8	0.19
(1,214)	1:B:41:ILE:HG21	1:B:42:TYR:HD2	8	0.19
(1,214)	1:B:41:ILE:HG22	1:B:42:TYR:HD1	8	0.19
(1,214)	1:B:41:ILE:HG22	1:B:42:TYR:HD2	8	0.19
(1,214)	1:B:41:ILE:HG23	1:B:42:TYR:HD1	8	0.19
(1,214)	1:B:41:ILE:HG23	1:B:42:TYR:HD2	8	0.19
(1,212)	1:B:41:ILE:HA	1:B:42:TYR:HD1	11	0.19
(1,212)	1:B:41:ILE:HA	1:B:42:TYR:HD2	11	0.19
(1,207)	1:B:40:ILE:HG21	1:B:41:ILE:H	15	0.19
(1,207)	1:B:40:ILE:HG22	1:B:41:ILE:H	15	0.19
(1,207)	1:B:40:ILE:HG23	1:B:41:ILE:H	15	0.19
(1,206)	1:B:39:PRO:HB2	1:B:40:ILE:H	1	0.19
(1,206)	1:B:39:PRO:HB3	1:B:40:ILE:H	1	0.19
(1,206)	1:B:39:PRO:HB2	1:B:40:ILE:H	2	0.19
(1,206)	1:B:39:PRO:HB3	1:B:40:ILE:H	2	0.19
(1,206)	1:B:39:PRO:HB2	1:B:40:ILE:H	3	0.19
(1,206)	1:B:39:PRO:HB3	1:B:40:ILE:H	3	0.19
(1,189)	1:B:35:LYS:HA	1:B:36:LYS:H	2	0.19
(1,180)	1:A:16:GLY:HA2	1:A:15:THR:H	1	0.19
(1,180)	1:A:16:GLY:HA3	1:A:15:THR:H	1	0.19
(1,180)	1:A:16:GLY:HA2	1:A:15:THR:H	6	0.19
(1,180)	1:A:16:GLY:HA3	1:A:15:THR:H	6	0.19
(1,160)	1:A:11:CYS:HA	1:A:19:GLN:H	3	0.19
(1,147)	1:A:19:GLN:HG2	1:A:10:TYR:HE1	17	0.19
(1,147)	1:A:19:GLN:HG2	1:A:10:TYR:HE2	17	0.19
(1,147)	1:A:19:GLN:HG3	1:A:10:TYR:HE1	17	0.19
(1,147)	1:A:19:GLN:HG3	1:A:10:TYR:HE2	17	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,138)	1:A:18:CYS:HA	1:A:10:TYR:H	10	0.19
(1,137)	1:A:20:ARG:HD2	1:A:9:ILE:H	12	0.19
(1,137)	1:A:20:ARG:HD3	1:A:9:ILE:H	12	0.19
(1,137)	1:A:20:ARG:HD2	1:A:9:ILE:H	16	0.19
(1,137)	1:A:20:ARG:HD3	1:A:9:ILE:H	16	0.19
(1,135)	1:A:21:MET:HG2	1:A:8:ILE:H	18	0.19
(1,135)	1:A:21:MET:HG3	1:A:8:ILE:H	18	0.19
(1,117)	1:A:18:CYS:HB2	1:A:18:CYS:H	7	0.19
(1,117)	1:A:18:CYS:HB3	1:A:18:CYS:H	7	0.19
(1,117)	1:A:18:CYS:HB2	1:A:18:CYS:H	15	0.19
(1,117)	1:A:18:CYS:HB3	1:A:18:CYS:H	15	0.19
(1,64)	1:A:6:VAL:HB	1:A:6:VAL:H	9	0.18
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD11	10	0.18
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD12	10	0.18
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD13	10	0.18
(1,374)	1:B:38:VAL:HG11	1:B:41:ILE:H	20	0.18
(1,374)	1:B:38:VAL:HG12	1:B:41:ILE:H	20	0.18
(1,374)	1:B:38:VAL:HG13	1:B:41:ILE:H	20	0.18
(1,374)	1:B:38:VAL:HG21	1:B:41:ILE:H	20	0.18
(1,374)	1:B:38:VAL:HG22	1:B:41:ILE:H	20	0.18
(1,374)	1:B:38:VAL:HG23	1:B:41:ILE:H	20	0.18
(1,373)	1:B:52:ARG:HD2	1:B:38:VAL:H	5	0.18
(1,373)	1:B:52:ARG:HD3	1:B:38:VAL:H	5	0.18
(1,373)	1:B:52:ARG:HD2	1:B:38:VAL:H	9	0.18
(1,373)	1:B:52:ARG:HD3	1:B:38:VAL:H	9	0.18
(1,367)	1:B:48:GLY:HA2	1:B:47:THR:H	17	0.18
(1,367)	1:B:48:GLY:HA3	1:B:47:THR:H	17	0.18
(1,365)	1:B:47:THR:HG21	1:B:46:ARG:HE	3	0.18
(1,365)	1:B:47:THR:HG22	1:B:46:ARG:HE	3	0.18
(1,365)	1:B:47:THR:HG23	1:B:46:ARG:HE	3	0.18
(1,365)	1:B:47:THR:HG21	1:B:46:ARG:HE	4	0.18
(1,365)	1:B:47:THR:HG22	1:B:46:ARG:HE	4	0.18
(1,365)	1:B:47:THR:HG23	1:B:46:ARG:HE	4	0.18
(1,365)	1:B:47:THR:HG21	1:B:46:ARG:HE	5	0.18
(1,365)	1:B:47:THR:HG22	1:B:46:ARG:HE	5	0.18
(1,365)	1:B:47:THR:HG23	1:B:46:ARG:HE	5	0.18
(1,36)	1:A:13:ARG:HA	1:A:14:ARG:HE	1	0.18
(1,36)	1:A:13:ARG:HA	1:A:14:ARG:HE	12	0.18
(1,353)	1:B:43:CYS:HA	1:B:49:LYS:H	15	0.18
(1,353)	1:B:43:CYS:HA	1:B:49:LYS:H	17	0.18
(1,35)	1:A:12:ASN:HD21	1:A:13:ARG:H	1	0.18
(1,35)	1:A:12:ASN:HD22	1:A:13:ARG:H	1	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,35)	1:A:12:ASN:HD21	1:A:13:ARG:H	3	0.18
(1,35)	1:A:12:ASN:HD22	1:A:13:ARG:H	3	0.18
(1,35)	1:A:12:ASN:HD21	1:A:13:ARG:H	4	0.18
(1,35)	1:A:12:ASN:HD22	1:A:13:ARG:H	4	0.18
(1,35)	1:A:12:ASN:HD21	1:A:13:ARG:H	9	0.18
(1,35)	1:A:12:ASN:HD22	1:A:13:ARG:H	9	0.18
(1,35)	1:A:12:ASN:HD21	1:A:13:ARG:H	14	0.18
(1,35)	1:A:12:ASN:HD22	1:A:13:ARG:H	14	0.18
(1,35)	1:A:12:ASN:HD21	1:A:13:ARG:H	16	0.18
(1,35)	1:A:12:ASN:HD22	1:A:13:ARG:H	16	0.18
(1,347)	1:B:43:CYS:HA	1:B:51:GLN:H	9	0.18
(1,347)	1:B:43:CYS:HA	1:B:51:GLN:H	16	0.18
(1,341)	1:B:40:ILE:HD11	1:B:53:MET:H	18	0.18
(1,341)	1:B:40:ILE:HD12	1:B:53:MET:H	18	0.18
(1,341)	1:B:40:ILE:HD13	1:B:53:MET:H	18	0.18
(1,340)	1:B:40:ILE:H	1:B:53:MET:H	18	0.18
(1,34)	1:A:12:ASN:HB2	1:A:13:ARG:H	7	0.18
(1,34)	1:A:12:ASN:HB3	1:A:13:ARG:H	7	0.18
(1,334)	1:B:51:GLN:HG2	1:B:42:TYR:HE1	2	0.18
(1,334)	1:B:51:GLN:HG2	1:B:42:TYR:HE2	2	0.18
(1,334)	1:B:51:GLN:HG3	1:B:42:TYR:HE1	2	0.18
(1,334)	1:B:51:GLN:HG3	1:B:42:TYR:HE2	2	0.18
(1,334)	1:B:51:GLN:HG2	1:B:42:TYR:HE1	4	0.18
(1,334)	1:B:51:GLN:HG2	1:B:42:TYR:HE2	4	0.18
(1,334)	1:B:51:GLN:HG3	1:B:42:TYR:HE1	4	0.18
(1,334)	1:B:51:GLN:HG3	1:B:42:TYR:HE2	4	0.18
(1,334)	1:B:51:GLN:HG2	1:B:42:TYR:HE1	8	0.18
(1,334)	1:B:51:GLN:HG2	1:B:42:TYR:HE2	8	0.18
(1,334)	1:B:51:GLN:HG3	1:B:42:TYR:HE1	8	0.18
(1,334)	1:B:51:GLN:HG3	1:B:42:TYR:HE2	8	0.18
(1,334)	1:B:51:GLN:HG2	1:B:42:TYR:HE1	10	0.18
(1,334)	1:B:51:GLN:HG2	1:B:42:TYR:HE2	10	0.18
(1,334)	1:B:51:GLN:HG3	1:B:42:TYR:HE1	10	0.18
(1,334)	1:B:51:GLN:HG3	1:B:42:TYR:HE2	10	0.18
(1,334)	1:B:51:GLN:HG2	1:B:42:TYR:HE1	12	0.18
(1,334)	1:B:51:GLN:HG2	1:B:42:TYR:HE2	12	0.18
(1,334)	1:B:51:GLN:HG3	1:B:42:TYR:HE1	12	0.18
(1,334)	1:B:51:GLN:HG3	1:B:42:TYR:HE2	12	0.18
(1,334)	1:B:51:GLN:HG2	1:B:42:TYR:HE1	14	0.18
(1,334)	1:B:51:GLN:HG2	1:B:42:TYR:HE2	14	0.18
(1,334)	1:B:51:GLN:HG3	1:B:42:TYR:HE1	14	0.18
(1,334)	1:B:51:GLN:HG3	1:B:42:TYR:HE2	14	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,332)	1:B:51:GLN:HA	1:B:42:TYR:HE1	1	0.18
(1,332)	1:B:51:GLN:HA	1:B:42:TYR:HE2	1	0.18
(1,332)	1:B:51:GLN:HA	1:B:42:TYR:HE1	3	0.18
(1,332)	1:B:51:GLN:HA	1:B:42:TYR:HE2	3	0.18
(1,332)	1:B:51:GLN:HA	1:B:42:TYR:HE1	9	0.18
(1,332)	1:B:51:GLN:HA	1:B:42:TYR:HE2	9	0.18
(1,332)	1:B:51:GLN:HA	1:B:42:TYR:HE1	13	0.18
(1,332)	1:B:51:GLN:HA	1:B:42:TYR:HE2	13	0.18
(1,332)	1:B:51:GLN:HA	1:B:42:TYR:HE1	18	0.18
(1,332)	1:B:51:GLN:HA	1:B:42:TYR:HE2	18	0.18
(1,325)	1:B:50:CYS:HA	1:B:42:TYR:H	3	0.18
(1,325)	1:B:50:CYS:HA	1:B:42:TYR:H	9	0.18
(1,322)	1:B:53:MET:HG2	1:B:40:ILE:H	1	0.18
(1,322)	1:B:53:MET:HG3	1:B:40:ILE:H	1	0.18
(1,322)	1:B:53:MET:HG2	1:B:40:ILE:H	12	0.18
(1,322)	1:B:53:MET:HG3	1:B:40:ILE:H	12	0.18
(1,32)	1:A:10:TYR:HD1	1:A:11:CYS:H	12	0.18
(1,32)	1:A:10:TYR:HD2	1:A:11:CYS:H	12	0.18
(1,319)	1:B:53:MET:HG2	1:B:53:MET:H	18	0.18
(1,319)	1:B:53:MET:HG3	1:B:53:MET:H	18	0.18
(1,31)	1:A:10:TYR:H	1:A:11:CYS:H	1	0.18
(1,30)	1:A:10:TYR:HB2	1:A:11:CYS:H	3	0.18
(1,30)	1:A:10:TYR:HB3	1:A:11:CYS:H	3	0.18
(1,30)	1:A:10:TYR:HB2	1:A:11:CYS:H	5	0.18
(1,30)	1:A:10:TYR:HB3	1:A:11:CYS:H	5	0.18
(1,30)	1:A:10:TYR:HB2	1:A:11:CYS:H	9	0.18
(1,30)	1:A:10:TYR:HB3	1:A:11:CYS:H	9	0.18
(1,30)	1:A:10:TYR:HB2	1:A:11:CYS:H	17	0.18
(1,30)	1:A:10:TYR:HB3	1:A:11:CYS:H	17	0.18
(1,30)	1:A:10:TYR:HB2	1:A:11:CYS:H	18	0.18
(1,30)	1:A:10:TYR:HB3	1:A:11:CYS:H	18	0.18
(1,294)	1:B:46:ARG:HB2	1:B:46:ARG:H	2	0.18
(1,294)	1:B:46:ARG:HB3	1:B:46:ARG:H	2	0.18
(1,27)	1:A:9:ILE:HG21	1:A:10:TYR:HD1	4	0.18
(1,27)	1:A:9:ILE:HG21	1:A:10:TYR:HD2	4	0.18
(1,27)	1:A:9:ILE:HG22	1:A:10:TYR:HD1	4	0.18
(1,27)	1:A:9:ILE:HG22	1:A:10:TYR:HD2	4	0.18
(1,27)	1:A:9:ILE:HG23	1:A:10:TYR:HD1	4	0.18
(1,27)	1:A:9:ILE:HG23	1:A:10:TYR:HD2	4	0.18
(1,27)	1:A:9:ILE:HG21	1:A:10:TYR:HD1	5	0.18
(1,27)	1:A:9:ILE:HG21	1:A:10:TYR:HD2	5	0.18
(1,27)	1:A:9:ILE:HG22	1:A:10:TYR:HD1	5	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,27)	1:A:9:ILE:HG22	1:A:10:TYR:HD2	5	0.18
(1,27)	1:A:9:ILE:HG23	1:A:10:TYR:HD1	5	0.18
(1,27)	1:A:9:ILE:HG23	1:A:10:TYR:HD2	5	0.18
(1,27)	1:A:9:ILE:HG21	1:A:10:TYR:HD1	10	0.18
(1,27)	1:A:9:ILE:HG21	1:A:10:TYR:HD2	10	0.18
(1,27)	1:A:9:ILE:HG22	1:A:10:TYR:HD1	10	0.18
(1,27)	1:A:9:ILE:HG22	1:A:10:TYR:HD2	10	0.18
(1,27)	1:A:9:ILE:HG23	1:A:10:TYR:HD1	10	0.18
(1,27)	1:A:9:ILE:HG23	1:A:10:TYR:HD2	10	0.18
(1,233)	1:B:49:LYS:HG2	1:B:50:CYS:H	10	0.18
(1,233)	1:B:49:LYS:HG3	1:B:50:CYS:H	10	0.18
(1,233)	1:B:49:LYS:HG2	1:B:50:CYS:H	19	0.18
(1,233)	1:B:49:LYS:HG3	1:B:50:CYS:H	19	0.18
(1,232)	1:B:49:LYS:HD2	1:B:50:CYS:H	14	0.18
(1,232)	1:B:49:LYS:HD3	1:B:50:CYS:H	14	0.18
(1,228)	1:B:47:THR:HG21	1:B:48:GLY:H	19	0.18
(1,228)	1:B:47:THR:HG22	1:B:48:GLY:H	19	0.18
(1,228)	1:B:47:THR:HG23	1:B:48:GLY:H	19	0.18
(1,223)	1:B:45:ARG:HA	1:B:46:ARG:HE	1	0.18
(1,222)	1:B:44:ASN:HD21	1:B:45:ARG:H	1	0.18
(1,222)	1:B:44:ASN:HD22	1:B:45:ARG:H	1	0.18
(1,222)	1:B:44:ASN:HD21	1:B:45:ARG:H	3	0.18
(1,222)	1:B:44:ASN:HD22	1:B:45:ARG:H	3	0.18
(1,222)	1:B:44:ASN:HD21	1:B:45:ARG:H	8	0.18
(1,222)	1:B:44:ASN:HD22	1:B:45:ARG:H	8	0.18
(1,222)	1:B:44:ASN:HD21	1:B:45:ARG:H	10	0.18
(1,222)	1:B:44:ASN:HD22	1:B:45:ARG:H	10	0.18
(1,222)	1:B:44:ASN:HD21	1:B:45:ARG:H	12	0.18
(1,222)	1:B:44:ASN:HD22	1:B:45:ARG:H	12	0.18
(1,222)	1:B:44:ASN:HD21	1:B:45:ARG:H	18	0.18
(1,222)	1:B:44:ASN:HD22	1:B:45:ARG:H	18	0.18
(1,222)	1:B:44:ASN:HD21	1:B:45:ARG:H	20	0.18
(1,222)	1:B:44:ASN:HD22	1:B:45:ARG:H	20	0.18
(1,218)	1:B:42:TYR:H	1:B:43:CYS:H	4	0.18
(1,218)	1:B:42:TYR:H	1:B:43:CYS:H	19	0.18
(1,217)	1:B:42:TYR:HB2	1:B:43:CYS:H	3	0.18
(1,217)	1:B:42:TYR:HB3	1:B:43:CYS:H	3	0.18
(1,217)	1:B:42:TYR:HB2	1:B:43:CYS:H	5	0.18
(1,217)	1:B:42:TYR:HB3	1:B:43:CYS:H	5	0.18
(1,217)	1:B:42:TYR:HB2	1:B:43:CYS:H	8	0.18
(1,217)	1:B:42:TYR:HB3	1:B:43:CYS:H	8	0.18
(1,217)	1:B:42:TYR:HB2	1:B:43:CYS:H	18	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,217)	1:B:42:TYR:HB3	1:B:43:CYS:H	18	0.18
(1,217)	1:B:42:TYR:HB2	1:B:43:CYS:H	20	0.18
(1,217)	1:B:42:TYR:HB3	1:B:43:CYS:H	20	0.18
(1,214)	1:B:41:ILE:HG21	1:B:42:TYR:HD1	3	0.18
(1,214)	1:B:41:ILE:HG21	1:B:42:TYR:HD2	3	0.18
(1,214)	1:B:41:ILE:HG22	1:B:42:TYR:HD1	3	0.18
(1,214)	1:B:41:ILE:HG22	1:B:42:TYR:HD2	3	0.18
(1,214)	1:B:41:ILE:HG23	1:B:42:TYR:HD1	3	0.18
(1,214)	1:B:41:ILE:HG23	1:B:42:TYR:HD2	3	0.18
(1,214)	1:B:41:ILE:HG21	1:B:42:TYR:HD1	9	0.18
(1,214)	1:B:41:ILE:HG21	1:B:42:TYR:HD2	9	0.18
(1,214)	1:B:41:ILE:HG22	1:B:42:TYR:HD1	9	0.18
(1,214)	1:B:41:ILE:HG22	1:B:42:TYR:HD2	9	0.18
(1,214)	1:B:41:ILE:HG23	1:B:42:TYR:HD1	9	0.18
(1,214)	1:B:41:ILE:HG23	1:B:42:TYR:HD2	9	0.18
(1,214)	1:B:41:ILE:HG21	1:B:42:TYR:HD1	10	0.18
(1,214)	1:B:41:ILE:HG21	1:B:42:TYR:HD2	10	0.18
(1,214)	1:B:41:ILE:HG22	1:B:42:TYR:HD1	10	0.18
(1,214)	1:B:41:ILE:HG22	1:B:42:TYR:HD2	10	0.18
(1,214)	1:B:41:ILE:HG23	1:B:42:TYR:HD1	10	0.18
(1,214)	1:B:41:ILE:HG23	1:B:42:TYR:HD2	10	0.18
(1,214)	1:B:41:ILE:HG21	1:B:42:TYR:HD1	13	0.18
(1,214)	1:B:41:ILE:HG21	1:B:42:TYR:HD2	13	0.18
(1,214)	1:B:41:ILE:HG22	1:B:42:TYR:HD1	13	0.18
(1,214)	1:B:41:ILE:HG22	1:B:42:TYR:HD2	13	0.18
(1,214)	1:B:41:ILE:HG23	1:B:42:TYR:HD1	13	0.18
(1,214)	1:B:41:ILE:HG23	1:B:42:TYR:HD2	13	0.18
(1,213)	1:B:41:ILE:HB	1:B:42:TYR:HD1	16	0.18
(1,213)	1:B:41:ILE:HB	1:B:42:TYR:HD2	16	0.18
(1,212)	1:B:41:ILE:HA	1:B:42:TYR:HD1	13	0.18
(1,212)	1:B:41:ILE:HA	1:B:42:TYR:HD2	13	0.18
(1,212)	1:B:41:ILE:HA	1:B:42:TYR:HD1	19	0.18
(1,212)	1:B:41:ILE:HA	1:B:42:TYR:HD2	19	0.18
(1,206)	1:B:39:PRO:HB2	1:B:40:ILE:H	4	0.18
(1,206)	1:B:39:PRO:HB3	1:B:40:ILE:H	4	0.18
(1,206)	1:B:39:PRO:HB2	1:B:40:ILE:H	5	0.18
(1,206)	1:B:39:PRO:HB3	1:B:40:ILE:H	5	0.18
(1,206)	1:B:39:PRO:HB2	1:B:40:ILE:H	6	0.18
(1,206)	1:B:39:PRO:HB3	1:B:40:ILE:H	6	0.18
(1,206)	1:B:39:PRO:HB2	1:B:40:ILE:H	8	0.18
(1,206)	1:B:39:PRO:HB3	1:B:40:ILE:H	8	0.18
(1,206)	1:B:39:PRO:HB2	1:B:40:ILE:H	9	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,206)	1:B:39:PRO:HB3	1:B:40:ILE:H	9	0.18
(1,206)	1:B:39:PRO:HB2	1:B:40:ILE:H	10	0.18
(1,206)	1:B:39:PRO:HB3	1:B:40:ILE:H	10	0.18
(1,206)	1:B:39:PRO:HB2	1:B:40:ILE:H	11	0.18
(1,206)	1:B:39:PRO:HB3	1:B:40:ILE:H	11	0.18
(1,206)	1:B:39:PRO:HB2	1:B:40:ILE:H	12	0.18
(1,206)	1:B:39:PRO:HB3	1:B:40:ILE:H	12	0.18
(1,206)	1:B:39:PRO:HB2	1:B:40:ILE:H	15	0.18
(1,206)	1:B:39:PRO:HB3	1:B:40:ILE:H	15	0.18
(1,206)	1:B:39:PRO:HB2	1:B:40:ILE:H	18	0.18
(1,206)	1:B:39:PRO:HB3	1:B:40:ILE:H	18	0.18
(1,206)	1:B:39:PRO:HB2	1:B:40:ILE:H	19	0.18
(1,206)	1:B:39:PRO:HB3	1:B:40:ILE:H	19	0.18
(1,20)	1:A:8:ILE:HG21	1:A:9:ILE:H	4	0.18
(1,20)	1:A:8:ILE:HG22	1:A:9:ILE:H	4	0.18
(1,20)	1:A:8:ILE:HG23	1:A:9:ILE:H	4	0.18
(1,2)	1:A:3:LYS:HA	1:A:4:LYS:H	1	0.18
(1,189)	1:B:35:LYS:HA	1:B:36:LYS:H	3	0.18
(1,180)	1:A:16:GLY:HA2	1:A:15:THR:H	7	0.18
(1,180)	1:A:16:GLY:HA3	1:A:15:THR:H	7	0.18
(1,180)	1:A:16:GLY:HA2	1:A:15:THR:H	12	0.18
(1,180)	1:A:16:GLY:HA3	1:A:15:THR:H	12	0.18
(1,180)	1:A:16:GLY:HA2	1:A:15:THR:H	14	0.18
(1,180)	1:A:16:GLY:HA3	1:A:15:THR:H	14	0.18
(1,178)	1:A:15:THR:HG21	1:A:14:ARG:HE	11	0.18
(1,178)	1:A:15:THR:HG22	1:A:14:ARG:HE	11	0.18
(1,178)	1:A:15:THR:HG23	1:A:14:ARG:HE	11	0.18
(1,177)	1:A:15:THR:H	1:A:14:ARG:H	15	0.18
(1,177)	1:A:15:THR:H	1:A:14:ARG:H	16	0.18
(1,174)	1:A:10:TYR:HA	1:A:9:ILE:H	11	0.18
(1,174)	1:A:10:TYR:HA	1:A:9:ILE:H	14	0.18
(1,166)	1:A:11:CYS:HA	1:A:17:LYS:H	10	0.18
(1,153)	1:A:8:ILE:H	1:A:21:MET:H	3	0.18
(1,153)	1:A:8:ILE:H	1:A:21:MET:H	7	0.18
(1,152)	1:A:8:ILE:HA	1:A:21:MET:H	12	0.18
(1,152)	1:A:8:ILE:HA	1:A:21:MET:H	14	0.18
(1,152)	1:A:8:ILE:HA	1:A:21:MET:H	16	0.18
(1,147)	1:A:19:GLN:HG2	1:A:10:TYR:HE1	2	0.18
(1,147)	1:A:19:GLN:HG2	1:A:10:TYR:HE2	2	0.18
(1,147)	1:A:19:GLN:HG3	1:A:10:TYR:HE1	2	0.18
(1,147)	1:A:19:GLN:HG3	1:A:10:TYR:HE2	2	0.18
(1,147)	1:A:19:GLN:HG2	1:A:10:TYR:HE1	3	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,147)	1:A:19:GLN:HG2	1:A:10:TYR:HE2	3	0.18
(1,147)	1:A:19:GLN:HG3	1:A:10:TYR:HE1	3	0.18
(1,147)	1:A:19:GLN:HG3	1:A:10:TYR:HE2	3	0.18
(1,147)	1:A:19:GLN:HG2	1:A:10:TYR:HE1	6	0.18
(1,147)	1:A:19:GLN:HG2	1:A:10:TYR:HE2	6	0.18
(1,147)	1:A:19:GLN:HG3	1:A:10:TYR:HE1	6	0.18
(1,147)	1:A:19:GLN:HG3	1:A:10:TYR:HE2	6	0.18
(1,147)	1:A:19:GLN:HG2	1:A:10:TYR:HE1	8	0.18
(1,147)	1:A:19:GLN:HG2	1:A:10:TYR:HE2	8	0.18
(1,147)	1:A:19:GLN:HG3	1:A:10:TYR:HE1	8	0.18
(1,147)	1:A:19:GLN:HG3	1:A:10:TYR:HE2	8	0.18
(1,147)	1:A:19:GLN:HG2	1:A:10:TYR:HE1	13	0.18
(1,147)	1:A:19:GLN:HG2	1:A:10:TYR:HE2	13	0.18
(1,147)	1:A:19:GLN:HG3	1:A:10:TYR:HE1	13	0.18
(1,147)	1:A:19:GLN:HG3	1:A:10:TYR:HE2	13	0.18
(1,147)	1:A:19:GLN:HG2	1:A:10:TYR:HE1	18	0.18
(1,147)	1:A:19:GLN:HG2	1:A:10:TYR:HE2	18	0.18
(1,147)	1:A:19:GLN:HG3	1:A:10:TYR:HE1	18	0.18
(1,147)	1:A:19:GLN:HG3	1:A:10:TYR:HE2	18	0.18
(1,147)	1:A:19:GLN:HG2	1:A:10:TYR:HE1	19	0.18
(1,147)	1:A:19:GLN:HG2	1:A:10:TYR:HE2	19	0.18
(1,147)	1:A:19:GLN:HG3	1:A:10:TYR:HE1	19	0.18
(1,147)	1:A:19:GLN:HG3	1:A:10:TYR:HE2	19	0.18
(1,145)	1:A:19:GLN:HA	1:A:10:TYR:HE1	6	0.18
(1,145)	1:A:19:GLN:HA	1:A:10:TYR:HE2	6	0.18
(1,145)	1:A:19:GLN:HA	1:A:10:TYR:HE1	10	0.18
(1,145)	1:A:19:GLN:HA	1:A:10:TYR:HE2	10	0.18
(1,145)	1:A:19:GLN:HA	1:A:10:TYR:HE1	16	0.18
(1,145)	1:A:19:GLN:HA	1:A:10:TYR:HE2	16	0.18
(1,138)	1:A:18:CYS:HA	1:A:10:TYR:H	5	0.18
(1,138)	1:A:18:CYS:HA	1:A:10:TYR:H	16	0.18
(1,137)	1:A:20:ARG:HD2	1:A:9:ILE:H	4	0.18
(1,137)	1:A:20:ARG:HD3	1:A:9:ILE:H	4	0.18
(1,117)	1:A:18:CYS:HB2	1:A:18:CYS:H	9	0.18
(1,117)	1:A:18:CYS:HB3	1:A:18:CYS:H	9	0.18
(1,107)	1:A:14:ARG:HB2	1:A:14:ARG:H	6	0.18
(1,107)	1:A:14:ARG:HB3	1:A:14:ARG:H	6	0.18
(1,107)	1:A:14:ARG:HB2	1:A:14:ARG:H	15	0.18
(1,107)	1:A:14:ARG:HB3	1:A:14:ARG:H	15	0.18
(2,1)	1:A:3:LYS:HA	1:A:8:ILE:HA	6	0.17
(1,47)	1:A:19:GLN:HE21	1:A:20:ARG:H	3	0.17
(1,47)	1:A:19:GLN:HE22	1:A:20:ARG:H	3	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,47)	1:A:19:GLN:HE21	1:A:20:ARG:H	16	0.17
(1,47)	1:A:19:GLN:HE22	1:A:20:ARG:H	16	0.17
(1,45)	1:A:17:LYS:HD2	1:A:18:CYS:H	6	0.17
(1,45)	1:A:17:LYS:HD3	1:A:18:CYS:H	6	0.17
(1,45)	1:A:17:LYS:HD2	1:A:18:CYS:H	7	0.17
(1,45)	1:A:17:LYS:HD3	1:A:18:CYS:H	7	0.17
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD11	3	0.17
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD12	3	0.17
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD13	3	0.17
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD11	16	0.17
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD12	16	0.17
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD13	16	0.17
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD11	6	0.17
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD12	6	0.17
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD13	6	0.17
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD11	10	0.17
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD12	10	0.17
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD13	10	0.17
(1,367)	1:B:48:GLY:HA2	1:B:47:THR:H	13	0.17
(1,367)	1:B:48:GLY:HA3	1:B:47:THR:H	13	0.17
(1,365)	1:B:47:THR:HG21	1:B:46:ARG:HE	6	0.17
(1,365)	1:B:47:THR:HG22	1:B:46:ARG:HE	6	0.17
(1,365)	1:B:47:THR:HG23	1:B:46:ARG:HE	6	0.17
(1,364)	1:B:47:THR:H	1:B:46:ARG:H	7	0.17
(1,364)	1:B:47:THR:H	1:B:46:ARG:H	8	0.17
(1,364)	1:B:47:THR:H	1:B:46:ARG:H	15	0.17
(1,36)	1:A:13:ARG:HA	1:A:14:ARG:HE	5	0.17
(1,36)	1:A:13:ARG:HA	1:A:14:ARG:HE	16	0.17
(1,36)	1:A:13:ARG:HA	1:A:14:ARG:HE	19	0.17
(1,353)	1:B:43:CYS:HA	1:B:49:LYS:H	6	0.17
(1,353)	1:B:43:CYS:HA	1:B:49:LYS:H	9	0.17
(1,35)	1:A:12:ASN:HD21	1:A:13:ARG:H	2	0.17
(1,35)	1:A:12:ASN:HD22	1:A:13:ARG:H	2	0.17
(1,35)	1:A:12:ASN:HD21	1:A:13:ARG:H	10	0.17
(1,35)	1:A:12:ASN:HD22	1:A:13:ARG:H	10	0.17
(1,35)	1:A:12:ASN:HD21	1:A:13:ARG:H	13	0.17
(1,35)	1:A:12:ASN:HD22	1:A:13:ARG:H	13	0.17
(1,347)	1:B:43:CYS:HA	1:B:51:GLN:H	19	0.17
(1,34)	1:A:12:ASN:HB2	1:A:13:ARG:H	8	0.17
(1,34)	1:A:12:ASN:HB3	1:A:13:ARG:H	8	0.17
(1,34)	1:A:12:ASN:HB2	1:A:13:ARG:H	15	0.17
(1,34)	1:A:12:ASN:HB3	1:A:13:ARG:H	15	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,334)	1:B:51:GLN:HG2	1:B:42:TYR:HE1	1	0.17
(1,334)	1:B:51:GLN:HG2	1:B:42:TYR:HE2	1	0.17
(1,334)	1:B:51:GLN:HG3	1:B:42:TYR:HE1	1	0.17
(1,334)	1:B:51:GLN:HG3	1:B:42:TYR:HE2	1	0.17
(1,334)	1:B:51:GLN:HG2	1:B:42:TYR:HE1	6	0.17
(1,334)	1:B:51:GLN:HG2	1:B:42:TYR:HE2	6	0.17
(1,334)	1:B:51:GLN:HG3	1:B:42:TYR:HE1	6	0.17
(1,334)	1:B:51:GLN:HG3	1:B:42:TYR:HE2	6	0.17
(1,334)	1:B:51:GLN:HG2	1:B:42:TYR:HE1	15	0.17
(1,334)	1:B:51:GLN:HG2	1:B:42:TYR:HE2	15	0.17
(1,334)	1:B:51:GLN:HG3	1:B:42:TYR:HE1	15	0.17
(1,334)	1:B:51:GLN:HG3	1:B:42:TYR:HE2	15	0.17
(1,334)	1:B:51:GLN:HG2	1:B:42:TYR:HE1	17	0.17
(1,334)	1:B:51:GLN:HG2	1:B:42:TYR:HE2	17	0.17
(1,334)	1:B:51:GLN:HG3	1:B:42:TYR:HE1	17	0.17
(1,334)	1:B:51:GLN:HG3	1:B:42:TYR:HE2	17	0.17
(1,334)	1:B:51:GLN:HG2	1:B:42:TYR:HE1	18	0.17
(1,334)	1:B:51:GLN:HG2	1:B:42:TYR:HE2	18	0.17
(1,334)	1:B:51:GLN:HG3	1:B:42:TYR:HE1	18	0.17
(1,334)	1:B:51:GLN:HG3	1:B:42:TYR:HE2	18	0.17
(1,332)	1:B:51:GLN:HA	1:B:42:TYR:HE1	2	0.17
(1,332)	1:B:51:GLN:HA	1:B:42:TYR:HE2	2	0.17
(1,332)	1:B:51:GLN:HA	1:B:42:TYR:HE1	6	0.17
(1,332)	1:B:51:GLN:HA	1:B:42:TYR:HE2	6	0.17
(1,332)	1:B:51:GLN:HA	1:B:42:TYR:HE1	10	0.17
(1,332)	1:B:51:GLN:HA	1:B:42:TYR:HE2	10	0.17
(1,332)	1:B:51:GLN:HA	1:B:42:TYR:HE1	17	0.17
(1,332)	1:B:51:GLN:HA	1:B:42:TYR:HE2	17	0.17
(1,325)	1:B:50:CYS:HA	1:B:42:TYR:H	8	0.17
(1,31)	1:A:10:TYR:H	1:A:11:CYS:H	12	0.17
(1,301)	1:B:49:LYS:HD2	1:B:49:LYS:H	7	0.17
(1,301)	1:B:49:LYS:HD3	1:B:49:LYS:H	7	0.17
(1,30)	1:A:10:TYR:HB2	1:A:11:CYS:H	10	0.17
(1,30)	1:A:10:TYR:HB3	1:A:11:CYS:H	10	0.17
(1,30)	1:A:10:TYR:HB2	1:A:11:CYS:H	11	0.17
(1,30)	1:A:10:TYR:HB3	1:A:11:CYS:H	11	0.17
(1,30)	1:A:10:TYR:HB2	1:A:11:CYS:H	14	0.17
(1,30)	1:A:10:TYR:HB3	1:A:11:CYS:H	14	0.17
(1,294)	1:B:46:ARG:HB2	1:B:46:ARG:H	9	0.17
(1,294)	1:B:46:ARG:HB3	1:B:46:ARG:H	9	0.17
(1,294)	1:B:46:ARG:HB2	1:B:46:ARG:H	18	0.17
(1,294)	1:B:46:ARG:HB3	1:B:46:ARG:H	18	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,27)	1:A:9:ILE:HG21	1:A:10:TYR:HD1	7	0.17
(1,27)	1:A:9:ILE:HG21	1:A:10:TYR:HD2	7	0.17
(1,27)	1:A:9:ILE:HG22	1:A:10:TYR:HD1	7	0.17
(1,27)	1:A:9:ILE:HG22	1:A:10:TYR:HD2	7	0.17
(1,27)	1:A:9:ILE:HG23	1:A:10:TYR:HD1	7	0.17
(1,27)	1:A:9:ILE:HG23	1:A:10:TYR:HD2	7	0.17
(1,27)	1:A:9:ILE:HG21	1:A:10:TYR:HD1	16	0.17
(1,27)	1:A:9:ILE:HG21	1:A:10:TYR:HD2	16	0.17
(1,27)	1:A:9:ILE:HG22	1:A:10:TYR:HD1	16	0.17
(1,27)	1:A:9:ILE:HG22	1:A:10:TYR:HD2	16	0.17
(1,27)	1:A:9:ILE:HG23	1:A:10:TYR:HD1	16	0.17
(1,27)	1:A:9:ILE:HG23	1:A:10:TYR:HD2	16	0.17
(1,27)	1:A:9:ILE:HG21	1:A:10:TYR:HD1	18	0.17
(1,27)	1:A:9:ILE:HG21	1:A:10:TYR:HD2	18	0.17
(1,27)	1:A:9:ILE:HG22	1:A:10:TYR:HD1	18	0.17
(1,27)	1:A:9:ILE:HG22	1:A:10:TYR:HD2	18	0.17
(1,27)	1:A:9:ILE:HG23	1:A:10:TYR:HD1	18	0.17
(1,27)	1:A:9:ILE:HG23	1:A:10:TYR:HD2	18	0.17
(1,26)	1:A:9:ILE:HB	1:A:10:TYR:HD1	14	0.17
(1,26)	1:A:9:ILE:HB	1:A:10:TYR:HD2	14	0.17
(1,251)	1:B:38:VAL:HB	1:B:38:VAL:H	4	0.17
(1,25)	1:A:9:ILE:HA	1:A:10:TYR:HD1	16	0.17
(1,25)	1:A:9:ILE:HA	1:A:10:TYR:HD2	16	0.17
(1,245)	1:B:36:LYS:HD2	1:B:36:LYS:H	13	0.17
(1,245)	1:B:36:LYS:HD3	1:B:36:LYS:H	13	0.17
(1,232)	1:B:49:LYS:HD2	1:B:50:CYS:H	9	0.17
(1,232)	1:B:49:LYS:HD3	1:B:50:CYS:H	9	0.17
(1,223)	1:B:45:ARG:HA	1:B:46:ARG:HE	13	0.17
(1,223)	1:B:45:ARG:HA	1:B:46:ARG:HE	15	0.17
(1,222)	1:B:44:ASN:HD21	1:B:45:ARG:H	4	0.17
(1,222)	1:B:44:ASN:HD22	1:B:45:ARG:H	4	0.17
(1,222)	1:B:44:ASN:HD21	1:B:45:ARG:H	5	0.17
(1,222)	1:B:44:ASN:HD22	1:B:45:ARG:H	5	0.17
(1,222)	1:B:44:ASN:HD21	1:B:45:ARG:H	11	0.17
(1,222)	1:B:44:ASN:HD22	1:B:45:ARG:H	11	0.17
(1,221)	1:B:44:ASN:HB2	1:B:45:ARG:H	1	0.17
(1,221)	1:B:44:ASN:HB3	1:B:45:ARG:H	1	0.17
(1,221)	1:B:44:ASN:HB2	1:B:45:ARG:H	12	0.17
(1,221)	1:B:44:ASN:HB3	1:B:45:ARG:H	12	0.17
(1,221)	1:B:44:ASN:HB2	1:B:45:ARG:H	16	0.17
(1,221)	1:B:44:ASN:HB3	1:B:45:ARG:H	16	0.17
(1,218)	1:B:42:TYR:H	1:B:43:CYS:H	6	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,218)	1:B:42:TYR:H	1:B:43:CYS:H	13	0.17
(1,218)	1:B:42:TYR:H	1:B:43:CYS:H	15	0.17
(1,217)	1:B:42:TYR:HB2	1:B:43:CYS:H	12	0.17
(1,217)	1:B:42:TYR:HB3	1:B:43:CYS:H	12	0.17
(1,214)	1:B:41:ILE:HG21	1:B:42:TYR:HD1	7	0.17
(1,214)	1:B:41:ILE:HG21	1:B:42:TYR:HD2	7	0.17
(1,214)	1:B:41:ILE:HG22	1:B:42:TYR:HD1	7	0.17
(1,214)	1:B:41:ILE:HG22	1:B:42:TYR:HD2	7	0.17
(1,214)	1:B:41:ILE:HG23	1:B:42:TYR:HD1	7	0.17
(1,214)	1:B:41:ILE:HG23	1:B:42:TYR:HD2	7	0.17
(1,214)	1:B:41:ILE:HG21	1:B:42:TYR:HD1	11	0.17
(1,214)	1:B:41:ILE:HG21	1:B:42:TYR:HD2	11	0.17
(1,214)	1:B:41:ILE:HG22	1:B:42:TYR:HD1	11	0.17
(1,214)	1:B:41:ILE:HG22	1:B:42:TYR:HD2	11	0.17
(1,214)	1:B:41:ILE:HG23	1:B:42:TYR:HD1	11	0.17
(1,214)	1:B:41:ILE:HG23	1:B:42:TYR:HD2	11	0.17
(1,214)	1:B:41:ILE:HG21	1:B:42:TYR:HD1	12	0.17
(1,214)	1:B:41:ILE:HG21	1:B:42:TYR:HD2	12	0.17
(1,214)	1:B:41:ILE:HG22	1:B:42:TYR:HD1	12	0.17
(1,214)	1:B:41:ILE:HG22	1:B:42:TYR:HD2	12	0.17
(1,214)	1:B:41:ILE:HG23	1:B:42:TYR:HD1	12	0.17
(1,214)	1:B:41:ILE:HG23	1:B:42:TYR:HD2	12	0.17
(1,214)	1:B:41:ILE:HG21	1:B:42:TYR:HD1	14	0.17
(1,214)	1:B:41:ILE:HG21	1:B:42:TYR:HD2	14	0.17
(1,214)	1:B:41:ILE:HG22	1:B:42:TYR:HD1	14	0.17
(1,214)	1:B:41:ILE:HG22	1:B:42:TYR:HD2	14	0.17
(1,214)	1:B:41:ILE:HG23	1:B:42:TYR:HD1	14	0.17
(1,214)	1:B:41:ILE:HG23	1:B:42:TYR:HD2	14	0.17
(1,213)	1:B:41:ILE:HB	1:B:42:TYR:HD1	17	0.17
(1,213)	1:B:41:ILE:HB	1:B:42:TYR:HD2	17	0.17
(1,21)	1:A:9:ILE:H	1:A:10:TYR:H	11	0.17
(1,21)	1:A:9:ILE:H	1:A:10:TYR:H	14	0.17
(1,209)	1:B:41:ILE:HD11	1:B:42:TYR:H	17	0.17
(1,209)	1:B:41:ILE:HD12	1:B:42:TYR:H	17	0.17
(1,209)	1:B:41:ILE:HD13	1:B:42:TYR:H	17	0.17
(1,207)	1:B:40:ILE:HG21	1:B:41:ILE:H	11	0.17
(1,207)	1:B:40:ILE:HG22	1:B:41:ILE:H	11	0.17
(1,207)	1:B:40:ILE:HG23	1:B:41:ILE:H	11	0.17
(1,206)	1:B:39:PRO:HB2	1:B:40:ILE:H	14	0.17
(1,206)	1:B:39:PRO:HB3	1:B:40:ILE:H	14	0.17
(1,206)	1:B:39:PRO:HB2	1:B:40:ILE:H	17	0.17
(1,206)	1:B:39:PRO:HB3	1:B:40:ILE:H	17	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,20)	1:A:8:ILE:HG21	1:A:9:ILE:H	16	0.17
(1,20)	1:A:8:ILE:HG22	1:A:9:ILE:H	16	0.17
(1,20)	1:A:8:ILE:HG23	1:A:9:ILE:H	16	0.17
(1,2)	1:A:3:LYS:HA	1:A:4:LYS:H	9	0.17
(1,2)	1:A:3:LYS:HA	1:A:4:LYS:H	18	0.17
(1,180)	1:A:16:GLY:HA2	1:A:15:THR:H	5	0.17
(1,180)	1:A:16:GLY:HA3	1:A:15:THR:H	5	0.17
(1,180)	1:A:16:GLY:HA2	1:A:15:THR:H	19	0.17
(1,180)	1:A:16:GLY:HA3	1:A:15:THR:H	19	0.17
(1,178)	1:A:15:THR:HG21	1:A:14:ARG:HE	13	0.17
(1,178)	1:A:15:THR:HG22	1:A:14:ARG:HE	13	0.17
(1,178)	1:A:15:THR:HG23	1:A:14:ARG:HE	13	0.17
(1,177)	1:A:15:THR:H	1:A:14:ARG:H	17	0.17
(1,174)	1:A:10:TYR:HA	1:A:9:ILE:H	9	0.17
(1,173)	1:A:9:ILE:HG21	1:A:8:ILE:H	17	0.17
(1,173)	1:A:9:ILE:HG22	1:A:8:ILE:H	17	0.17
(1,173)	1:A:9:ILE:HG23	1:A:8:ILE:H	17	0.17
(1,164)	1:A:18:CYS:HA	1:A:11:CYS:HB2	3	0.17
(1,164)	1:A:18:CYS:HA	1:A:11:CYS:HB3	3	0.17
(1,153)	1:A:8:ILE:H	1:A:21:MET:H	6	0.17
(1,153)	1:A:8:ILE:H	1:A:21:MET:H	10	0.17
(1,152)	1:A:8:ILE:HA	1:A:21:MET:H	15	0.17
(1,147)	1:A:19:GLN:HG2	1:A:10:TYR:HE1	1	0.17
(1,147)	1:A:19:GLN:HG2	1:A:10:TYR:HE2	1	0.17
(1,147)	1:A:19:GLN:HG3	1:A:10:TYR:HE1	1	0.17
(1,147)	1:A:19:GLN:HG3	1:A:10:TYR:HE2	1	0.17
(1,147)	1:A:19:GLN:HG2	1:A:10:TYR:HE1	4	0.17
(1,147)	1:A:19:GLN:HG2	1:A:10:TYR:HE2	4	0.17
(1,147)	1:A:19:GLN:HG3	1:A:10:TYR:HE1	4	0.17
(1,147)	1:A:19:GLN:HG3	1:A:10:TYR:HE2	4	0.17
(1,145)	1:A:19:GLN:HA	1:A:10:TYR:HE1	1	0.17
(1,145)	1:A:19:GLN:HA	1:A:10:TYR:HE2	1	0.17
(1,145)	1:A:19:GLN:HA	1:A:10:TYR:HE1	2	0.17
(1,145)	1:A:19:GLN:HA	1:A:10:TYR:HE2	2	0.17
(1,145)	1:A:19:GLN:HA	1:A:10:TYR:HE1	3	0.17
(1,145)	1:A:19:GLN:HA	1:A:10:TYR:HE2	3	0.17
(1,145)	1:A:19:GLN:HA	1:A:10:TYR:HE1	4	0.17
(1,145)	1:A:19:GLN:HA	1:A:10:TYR:HE2	4	0.17
(1,145)	1:A:19:GLN:HA	1:A:10:TYR:HE1	7	0.17
(1,145)	1:A:19:GLN:HA	1:A:10:TYR:HE2	7	0.17
(1,145)	1:A:19:GLN:HA	1:A:10:TYR:HE1	8	0.17
(1,145)	1:A:19:GLN:HA	1:A:10:TYR:HE2	8	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,145)	1:A:19:GLN:HA	1:A:10:TYR:HE1	13	0.17
(1,145)	1:A:19:GLN:HA	1:A:10:TYR:HE2	13	0.17
(1,145)	1:A:19:GLN:HA	1:A:10:TYR:HE1	14	0.17
(1,145)	1:A:19:GLN:HA	1:A:10:TYR:HE2	14	0.17
(1,145)	1:A:19:GLN:HA	1:A:10:TYR:HE1	18	0.17
(1,145)	1:A:19:GLN:HA	1:A:10:TYR:HE2	18	0.17
(1,145)	1:A:19:GLN:HA	1:A:10:TYR:HE1	19	0.17
(1,145)	1:A:19:GLN:HA	1:A:10:TYR:HE2	19	0.17
(1,138)	1:A:18:CYS:HA	1:A:10:TYR:H	11	0.17
(1,135)	1:A:21:MET:HG2	1:A:8:ILE:H	2	0.17
(1,135)	1:A:21:MET:HG3	1:A:8:ILE:H	2	0.17
(1,117)	1:A:18:CYS:HB2	1:A:18:CYS:H	10	0.17
(1,117)	1:A:18:CYS:HB3	1:A:18:CYS:H	10	0.17
(1,117)	1:A:18:CYS:HB2	1:A:18:CYS:H	11	0.17
(1,117)	1:A:18:CYS:HB3	1:A:18:CYS:H	11	0.17
(1,107)	1:A:14:ARG:HB2	1:A:14:ARG:H	20	0.17
(1,107)	1:A:14:ARG:HB3	1:A:14:ARG:H	20	0.17
(2,2)	1:B:35:LYS:HA	1:B:40:ILE:HA	8	0.16
(1,52)	1:A:3:LYS:HB2	1:A:3:LYS:H	2	0.16
(1,52)	1:A:3:LYS:HB3	1:A:3:LYS:H	2	0.16
(1,45)	1:A:17:LYS:HD2	1:A:18:CYS:H	2	0.16
(1,45)	1:A:17:LYS:HD3	1:A:18:CYS:H	2	0.16
(1,45)	1:A:17:LYS:HD2	1:A:18:CYS:H	5	0.16
(1,45)	1:A:17:LYS:HD3	1:A:18:CYS:H	5	0.16
(1,45)	1:A:17:LYS:HD2	1:A:18:CYS:H	13	0.16
(1,45)	1:A:17:LYS:HD3	1:A:18:CYS:H	13	0.16
(1,45)	1:A:17:LYS:HD2	1:A:18:CYS:H	18	0.16
(1,45)	1:A:17:LYS:HD3	1:A:18:CYS:H	18	0.16
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD11	12	0.16
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD12	12	0.16
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD13	12	0.16
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD11	9	0.16
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD12	9	0.16
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD13	9	0.16
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD11	18	0.16
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD12	18	0.16
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD13	18	0.16
(1,376)	1:B:38:VAL:HG11	1:A:11:CYS:H	17	0.16
(1,376)	1:B:38:VAL:HG12	1:A:11:CYS:H	17	0.16
(1,376)	1:B:38:VAL:HG13	1:A:11:CYS:H	17	0.16
(1,376)	1:B:38:VAL:HG21	1:A:11:CYS:H	17	0.16
(1,376)	1:B:38:VAL:HG22	1:A:11:CYS:H	17	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,376)	1:B:38:VAL:HG23	1:A:11:CYS:H	17	0.16
(1,367)	1:B:48:GLY:HA2	1:B:47:THR:H	8	0.16
(1,367)	1:B:48:GLY:HA3	1:B:47:THR:H	8	0.16
(1,367)	1:B:48:GLY:HA2	1:B:47:THR:H	9	0.16
(1,367)	1:B:48:GLY:HA3	1:B:47:THR:H	9	0.16
(1,367)	1:B:48:GLY:HA2	1:B:47:THR:H	16	0.16
(1,367)	1:B:48:GLY:HA3	1:B:47:THR:H	16	0.16
(1,367)	1:B:48:GLY:HA2	1:B:47:THR:H	20	0.16
(1,367)	1:B:48:GLY:HA3	1:B:47:THR:H	20	0.16
(1,364)	1:B:47:THR:H	1:B:46:ARG:H	13	0.16
(1,364)	1:B:47:THR:H	1:B:46:ARG:H	20	0.16
(1,35)	1:A:12:ASN:HD21	1:A:13:ARG:H	12	0.16
(1,35)	1:A:12:ASN:HD22	1:A:13:ARG:H	12	0.16
(1,347)	1:B:43:CYS:HA	1:B:51:GLN:H	3	0.16
(1,340)	1:B:40:ILE:H	1:B:53:MET:H	19	0.16
(1,34)	1:A:12:ASN:HB2	1:A:13:ARG:H	1	0.16
(1,34)	1:A:12:ASN:HB3	1:A:13:ARG:H	1	0.16
(1,34)	1:A:12:ASN:HB2	1:A:13:ARG:H	3	0.16
(1,34)	1:A:12:ASN:HB3	1:A:13:ARG:H	3	0.16
(1,34)	1:A:12:ASN:HB2	1:A:13:ARG:H	4	0.16
(1,34)	1:A:12:ASN:HB3	1:A:13:ARG:H	4	0.16
(1,34)	1:A:12:ASN:HB2	1:A:13:ARG:H	5	0.16
(1,34)	1:A:12:ASN:HB3	1:A:13:ARG:H	5	0.16
(1,34)	1:A:12:ASN:HB2	1:A:13:ARG:H	11	0.16
(1,34)	1:A:12:ASN:HB3	1:A:13:ARG:H	11	0.16
(1,34)	1:A:12:ASN:HB2	1:A:13:ARG:H	12	0.16
(1,34)	1:A:12:ASN:HB3	1:A:13:ARG:H	12	0.16
(1,34)	1:A:12:ASN:HB2	1:A:13:ARG:H	13	0.16
(1,34)	1:A:12:ASN:HB3	1:A:13:ARG:H	13	0.16
(1,34)	1:A:12:ASN:HB2	1:A:13:ARG:H	16	0.16
(1,34)	1:A:12:ASN:HB3	1:A:13:ARG:H	16	0.16
(1,34)	1:A:12:ASN:HB2	1:A:13:ARG:H	18	0.16
(1,34)	1:A:12:ASN:HB3	1:A:13:ARG:H	18	0.16
(1,332)	1:B:51:GLN:HA	1:B:42:TYR:HE1	4	0.16
(1,332)	1:B:51:GLN:HA	1:B:42:TYR:HE2	4	0.16
(1,332)	1:B:51:GLN:HA	1:B:42:TYR:HE1	12	0.16
(1,332)	1:B:51:GLN:HA	1:B:42:TYR:HE2	12	0.16
(1,332)	1:B:51:GLN:HA	1:B:42:TYR:HE1	14	0.16
(1,332)	1:B:51:GLN:HA	1:B:42:TYR:HE2	14	0.16
(1,332)	1:B:51:GLN:HA	1:B:42:TYR:HE1	15	0.16
(1,332)	1:B:51:GLN:HA	1:B:42:TYR:HE2	15	0.16
(1,325)	1:B:50:CYS:HA	1:B:42:TYR:H	11	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,325)	1:B:50:CYS:HA	1:B:42:TYR:H	12	0.16
(1,322)	1:B:53:MET:HG2	1:B:40:ILE:H	10	0.16
(1,322)	1:B:53:MET:HG3	1:B:40:ILE:H	10	0.16
(1,32)	1:A:10:TYR:HD1	1:A:11:CYS:H	20	0.16
(1,32)	1:A:10:TYR:HD2	1:A:11:CYS:H	20	0.16
(1,294)	1:B:46:ARG:HB2	1:B:46:ARG:H	1	0.16
(1,294)	1:B:46:ARG:HB3	1:B:46:ARG:H	1	0.16
(1,294)	1:B:46:ARG:HB2	1:B:46:ARG:H	8	0.16
(1,294)	1:B:46:ARG:HB3	1:B:46:ARG:H	8	0.16
(1,294)	1:B:46:ARG:HB2	1:B:46:ARG:H	11	0.16
(1,294)	1:B:46:ARG:HB3	1:B:46:ARG:H	11	0.16
(1,294)	1:B:46:ARG:HB2	1:B:46:ARG:H	13	0.16
(1,294)	1:B:46:ARG:HB3	1:B:46:ARG:H	13	0.16
(1,294)	1:B:46:ARG:HB2	1:B:46:ARG:H	15	0.16
(1,294)	1:B:46:ARG:HB3	1:B:46:ARG:H	15	0.16
(1,294)	1:B:46:ARG:HB2	1:B:46:ARG:H	20	0.16
(1,294)	1:B:46:ARG:HB3	1:B:46:ARG:H	20	0.16
(1,27)	1:A:9:ILE:HG21	1:A:10:TYR:HD1	9	0.16
(1,27)	1:A:9:ILE:HG21	1:A:10:TYR:HD2	9	0.16
(1,27)	1:A:9:ILE:HG22	1:A:10:TYR:HD1	9	0.16
(1,27)	1:A:9:ILE:HG22	1:A:10:TYR:HD2	9	0.16
(1,27)	1:A:9:ILE:HG23	1:A:10:TYR:HD1	9	0.16
(1,27)	1:A:9:ILE:HG23	1:A:10:TYR:HD2	9	0.16
(1,260)	1:B:40:ILE:HG21	1:B:40:ILE:H	16	0.16
(1,260)	1:B:40:ILE:HG22	1:B:40:ILE:H	16	0.16
(1,260)	1:B:40:ILE:HG23	1:B:40:ILE:H	16	0.16
(1,25)	1:A:9:ILE:HA	1:A:10:TYR:HD1	20	0.16
(1,25)	1:A:9:ILE:HA	1:A:10:TYR:HD2	20	0.16
(1,239)	1:B:35:LYS:HB2	1:B:35:LYS:H	8	0.16
(1,239)	1:B:35:LYS:HB3	1:B:35:LYS:H	8	0.16
(1,235)	1:B:51:GLN:HG2	1:B:52:ARG:H	17	0.16
(1,235)	1:B:51:GLN:HG3	1:B:52:ARG:H	17	0.16
(1,234)	1:B:51:GLN:HE21	1:B:52:ARG:H	10	0.16
(1,234)	1:B:51:GLN:HE22	1:B:52:ARG:H	10	0.16
(1,234)	1:B:51:GLN:HE21	1:B:52:ARG:H	11	0.16
(1,234)	1:B:51:GLN:HE22	1:B:52:ARG:H	11	0.16
(1,232)	1:B:49:LYS:HD2	1:B:50:CYS:H	2	0.16
(1,232)	1:B:49:LYS:HD3	1:B:50:CYS:H	2	0.16
(1,232)	1:B:49:LYS:HD2	1:B:50:CYS:H	4	0.16
(1,232)	1:B:49:LYS:HD3	1:B:50:CYS:H	4	0.16
(1,232)	1:B:49:LYS:HD2	1:B:50:CYS:H	12	0.16
(1,232)	1:B:49:LYS:HD3	1:B:50:CYS:H	12	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,232)	1:B:49:LYS:HD2	1:B:50:CYS:H	15	0.16
(1,232)	1:B:49:LYS:HD3	1:B:50:CYS:H	15	0.16
(1,232)	1:B:49:LYS:HD2	1:B:50:CYS:H	16	0.16
(1,232)	1:B:49:LYS:HD3	1:B:50:CYS:H	16	0.16
(1,232)	1:B:49:LYS:HD2	1:B:50:CYS:H	17	0.16
(1,232)	1:B:49:LYS:HD3	1:B:50:CYS:H	17	0.16
(1,232)	1:B:49:LYS:HD2	1:B:50:CYS:H	18	0.16
(1,232)	1:B:49:LYS:HD3	1:B:50:CYS:H	18	0.16
(1,222)	1:B:44:ASN:HD21	1:B:45:ARG:H	7	0.16
(1,222)	1:B:44:ASN:HD22	1:B:45:ARG:H	7	0.16
(1,222)	1:B:44:ASN:HD21	1:B:45:ARG:H	19	0.16
(1,222)	1:B:44:ASN:HD22	1:B:45:ARG:H	19	0.16
(1,221)	1:B:44:ASN:HB2	1:B:45:ARG:H	2	0.16
(1,221)	1:B:44:ASN:HB3	1:B:45:ARG:H	2	0.16
(1,221)	1:B:44:ASN:HB2	1:B:45:ARG:H	3	0.16
(1,221)	1:B:44:ASN:HB3	1:B:45:ARG:H	3	0.16
(1,221)	1:B:44:ASN:HB2	1:B:45:ARG:H	4	0.16
(1,221)	1:B:44:ASN:HB3	1:B:45:ARG:H	4	0.16
(1,221)	1:B:44:ASN:HB2	1:B:45:ARG:H	6	0.16
(1,221)	1:B:44:ASN:HB3	1:B:45:ARG:H	6	0.16
(1,221)	1:B:44:ASN:HB2	1:B:45:ARG:H	10	0.16
(1,221)	1:B:44:ASN:HB3	1:B:45:ARG:H	10	0.16
(1,221)	1:B:44:ASN:HB2	1:B:45:ARG:H	11	0.16
(1,221)	1:B:44:ASN:HB3	1:B:45:ARG:H	11	0.16
(1,221)	1:B:44:ASN:HB2	1:B:45:ARG:H	13	0.16
(1,221)	1:B:44:ASN:HB3	1:B:45:ARG:H	13	0.16
(1,221)	1:B:44:ASN:HB2	1:B:45:ARG:H	15	0.16
(1,221)	1:B:44:ASN:HB3	1:B:45:ARG:H	15	0.16
(1,221)	1:B:44:ASN:HB2	1:B:45:ARG:H	17	0.16
(1,221)	1:B:44:ASN:HB3	1:B:45:ARG:H	17	0.16
(1,221)	1:B:44:ASN:HB2	1:B:45:ARG:H	18	0.16
(1,221)	1:B:44:ASN:HB3	1:B:45:ARG:H	18	0.16
(1,218)	1:B:42:TYR:H	1:B:43:CYS:H	7	0.16
(1,218)	1:B:42:TYR:H	1:B:43:CYS:H	16	0.16
(1,218)	1:B:42:TYR:H	1:B:43:CYS:H	17	0.16
(1,214)	1:B:41:ILE:HG21	1:B:42:TYR:HD1	6	0.16
(1,214)	1:B:41:ILE:HG21	1:B:42:TYR:HD2	6	0.16
(1,214)	1:B:41:ILE:HG22	1:B:42:TYR:HD1	6	0.16
(1,214)	1:B:41:ILE:HG22	1:B:42:TYR:HD2	6	0.16
(1,214)	1:B:41:ILE:HG23	1:B:42:TYR:HD1	6	0.16
(1,214)	1:B:41:ILE:HG23	1:B:42:TYR:HD2	6	0.16
(1,214)	1:B:41:ILE:HG21	1:B:42:TYR:HD1	15	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,214)	1:B:41:ILE:HG21	1:B:42:TYR:HD2	15	0.16
(1,214)	1:B:41:ILE:HG22	1:B:42:TYR:HD1	15	0.16
(1,214)	1:B:41:ILE:HG22	1:B:42:TYR:HD2	15	0.16
(1,214)	1:B:41:ILE:HG23	1:B:42:TYR:HD1	15	0.16
(1,214)	1:B:41:ILE:HG23	1:B:42:TYR:HD2	15	0.16
(1,213)	1:B:41:ILE:HB	1:B:42:TYR:HD1	19	0.16
(1,213)	1:B:41:ILE:HB	1:B:42:TYR:HD2	19	0.16
(1,212)	1:B:41:ILE:HA	1:B:42:TYR:HD1	16	0.16
(1,212)	1:B:41:ILE:HA	1:B:42:TYR:HD2	16	0.16
(1,21)	1:A:9:ILE:H	1:A:10:TYR:H	9	0.16
(1,21)	1:A:9:ILE:H	1:A:10:TYR:H	18	0.16
(1,21)	1:A:9:ILE:H	1:A:10:TYR:H	19	0.16
(1,207)	1:B:40:ILE:HG21	1:B:41:ILE:H	4	0.16
(1,207)	1:B:40:ILE:HG22	1:B:41:ILE:H	4	0.16
(1,207)	1:B:40:ILE:HG23	1:B:41:ILE:H	4	0.16
(1,207)	1:B:40:ILE:HG21	1:B:41:ILE:H	10	0.16
(1,207)	1:B:40:ILE:HG22	1:B:41:ILE:H	10	0.16
(1,207)	1:B:40:ILE:HG23	1:B:41:ILE:H	10	0.16
(1,206)	1:B:39:PRO:HB2	1:B:40:ILE:H	16	0.16
(1,206)	1:B:39:PRO:HB3	1:B:40:ILE:H	16	0.16
(1,20)	1:A:8:ILE:HG21	1:A:9:ILE:H	1	0.16
(1,20)	1:A:8:ILE:HG22	1:A:9:ILE:H	1	0.16
(1,20)	1:A:8:ILE:HG23	1:A:9:ILE:H	1	0.16
(1,2)	1:A:3:LYS:HA	1:A:4:LYS:H	7	0.16
(1,189)	1:B:35:LYS:HA	1:B:36:LYS:H	7	0.16
(1,189)	1:B:35:LYS:HA	1:B:36:LYS:H	20	0.16
(1,181)	1:A:6:VAL:HG11	1:A:3:LYS:H	8	0.16
(1,181)	1:A:6:VAL:HG12	1:A:3:LYS:H	8	0.16
(1,181)	1:A:6:VAL:HG13	1:A:3:LYS:H	8	0.16
(1,181)	1:A:6:VAL:HG21	1:A:3:LYS:H	8	0.16
(1,181)	1:A:6:VAL:HG22	1:A:3:LYS:H	8	0.16
(1,181)	1:A:6:VAL:HG23	1:A:3:LYS:H	8	0.16
(1,180)	1:A:16:GLY:HA2	1:A:15:THR:H	9	0.16
(1,180)	1:A:16:GLY:HA3	1:A:15:THR:H	9	0.16
(1,180)	1:A:16:GLY:HA2	1:A:15:THR:H	17	0.16
(1,180)	1:A:16:GLY:HA3	1:A:15:THR:H	17	0.16
(1,177)	1:A:15:THR:H	1:A:14:ARG:H	5	0.16
(1,177)	1:A:15:THR:H	1:A:14:ARG:H	19	0.16
(1,174)	1:A:10:TYR:HA	1:A:9:ILE:H	19	0.16
(1,166)	1:A:11:CYS:HA	1:A:17:LYS:H	7	0.16
(1,165)	1:A:11:CYS:HA	1:A:18:CYS:HB2	16	0.16
(1,165)	1:A:11:CYS:HA	1:A:18:CYS:HB3	16	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,160)	1:A:11:CYS:HA	1:A:19:GLN:H	7	0.16
(1,160)	1:A:11:CYS:HA	1:A:19:GLN:H	12	0.16
(1,160)	1:A:11:CYS:HA	1:A:19:GLN:H	16	0.16
(1,160)	1:A:11:CYS:HA	1:A:19:GLN:H	18	0.16
(1,153)	1:A:8:ILE:H	1:A:21:MET:H	2	0.16
(1,152)	1:A:8:ILE:HA	1:A:21:MET:H	2	0.16
(1,152)	1:A:8:ILE:HA	1:A:21:MET:H	18	0.16
(1,152)	1:A:8:ILE:HA	1:A:21:MET:H	19	0.16
(1,145)	1:A:19:GLN:HA	1:A:10:TYR:HE1	9	0.16
(1,145)	1:A:19:GLN:HA	1:A:10:TYR:HE2	9	0.16
(1,138)	1:A:18:CYS:HA	1:A:10:TYR:H	4	0.16
(1,135)	1:A:21:MET:HG2	1:A:8:ILE:H	6	0.16
(1,135)	1:A:21:MET:HG3	1:A:8:ILE:H	6	0.16
(1,117)	1:A:18:CYS:HB2	1:A:18:CYS:H	14	0.16
(1,117)	1:A:18:CYS:HB3	1:A:18:CYS:H	14	0.16
(1,117)	1:A:18:CYS:HB2	1:A:18:CYS:H	19	0.16
(1,117)	1:A:18:CYS:HB3	1:A:18:CYS:H	19	0.16
(1,107)	1:A:14:ARG:HB2	1:A:14:ARG:H	1	0.16
(1,107)	1:A:14:ARG:HB3	1:A:14:ARG:H	1	0.16
(1,107)	1:A:14:ARG:HB2	1:A:14:ARG:H	5	0.16
(1,107)	1:A:14:ARG:HB3	1:A:14:ARG:H	5	0.16
(1,107)	1:A:14:ARG:HB2	1:A:14:ARG:H	9	0.16
(1,107)	1:A:14:ARG:HB3	1:A:14:ARG:H	9	0.16
(1,107)	1:A:14:ARG:HB2	1:A:14:ARG:H	12	0.16
(1,107)	1:A:14:ARG:HB3	1:A:14:ARG:H	12	0.16
(1,107)	1:A:14:ARG:HB2	1:A:14:ARG:H	14	0.16
(1,107)	1:A:14:ARG:HB3	1:A:14:ARG:H	14	0.16
(1,107)	1:A:14:ARG:HB2	1:A:14:ARG:H	16	0.16
(1,107)	1:A:14:ARG:HB3	1:A:14:ARG:H	16	0.16
(1,107)	1:A:14:ARG:HB2	1:A:14:ARG:H	17	0.16
(1,107)	1:A:14:ARG:HB3	1:A:14:ARG:H	17	0.16
(1,107)	1:A:14:ARG:HB2	1:A:14:ARG:H	19	0.16
(1,107)	1:A:14:ARG:HB3	1:A:14:ARG:H	19	0.16
(2,2)	1:B:35:LYS:HA	1:B:40:ILE:HA	6	0.15
(1,78)	1:A:9:ILE:HG21	1:A:9:ILE:H	8	0.15
(1,78)	1:A:9:ILE:HG22	1:A:9:ILE:H	8	0.15
(1,78)	1:A:9:ILE:HG23	1:A:9:ILE:H	8	0.15
(1,59)	1:A:4:LYS:HG2	1:A:4:LYS:H	19	0.15
(1,59)	1:A:4:LYS:HG3	1:A:4:LYS:H	19	0.15
(1,46)	1:A:17:LYS:HG2	1:A:18:CYS:H	1	0.15
(1,46)	1:A:17:LYS:HG3	1:A:18:CYS:H	1	0.15
(1,46)	1:A:17:LYS:HG2	1:A:18:CYS:H	6	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,46)	1:A:17:LYS:HG3	1:A:18:CYS:H	6	0.15
(1,46)	1:A:17:LYS:HG2	1:A:18:CYS:H	8	0.15
(1,46)	1:A:17:LYS:HG3	1:A:18:CYS:H	8	0.15
(1,45)	1:A:17:LYS:HD2	1:A:18:CYS:H	4	0.15
(1,45)	1:A:17:LYS:HD3	1:A:18:CYS:H	4	0.15
(1,45)	1:A:17:LYS:HD2	1:A:18:CYS:H	9	0.15
(1,45)	1:A:17:LYS:HD3	1:A:18:CYS:H	9	0.15
(1,45)	1:A:17:LYS:HD2	1:A:18:CYS:H	10	0.15
(1,45)	1:A:17:LYS:HD3	1:A:18:CYS:H	10	0.15
(1,45)	1:A:17:LYS:HD2	1:A:18:CYS:H	16	0.15
(1,45)	1:A:17:LYS:HD3	1:A:18:CYS:H	16	0.15
(1,45)	1:A:17:LYS:HD2	1:A:18:CYS:H	20	0.15
(1,45)	1:A:17:LYS:HD3	1:A:18:CYS:H	20	0.15
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD11	2	0.15
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD12	2	0.15
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD13	2	0.15
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD11	1	0.15
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD12	1	0.15
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD13	1	0.15
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD11	12	0.15
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD12	12	0.15
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD13	12	0.15
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD11	14	0.15
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD12	14	0.15
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD13	14	0.15
(1,376)	1:B:38:VAL:HG11	1:A:11:CYS:H	15	0.15
(1,376)	1:B:38:VAL:HG12	1:A:11:CYS:H	15	0.15
(1,376)	1:B:38:VAL:HG13	1:A:11:CYS:H	15	0.15
(1,376)	1:B:38:VAL:HG21	1:A:11:CYS:H	15	0.15
(1,376)	1:B:38:VAL:HG22	1:A:11:CYS:H	15	0.15
(1,376)	1:B:38:VAL:HG23	1:A:11:CYS:H	15	0.15
(1,373)	1:B:52:ARG:HD2	1:B:38:VAL:H	18	0.15
(1,373)	1:B:52:ARG:HD3	1:B:38:VAL:H	18	0.15
(1,368)	1:B:38:VAL:HG11	1:B:35:LYS:H	7	0.15
(1,368)	1:B:38:VAL:HG12	1:B:35:LYS:H	7	0.15
(1,368)	1:B:38:VAL:HG13	1:B:35:LYS:H	7	0.15
(1,368)	1:B:38:VAL:HG21	1:B:35:LYS:H	7	0.15
(1,368)	1:B:38:VAL:HG22	1:B:35:LYS:H	7	0.15
(1,368)	1:B:38:VAL:HG23	1:B:35:LYS:H	7	0.15
(1,368)	1:B:38:VAL:HG11	1:B:35:LYS:H	15	0.15
(1,368)	1:B:38:VAL:HG12	1:B:35:LYS:H	15	0.15
(1,368)	1:B:38:VAL:HG13	1:B:35:LYS:H	15	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,368)	1:B:38:VAL:HG21	1:B:35:LYS:H	15	0.15
(1,368)	1:B:38:VAL:HG22	1:B:35:LYS:H	15	0.15
(1,368)	1:B:38:VAL:HG23	1:B:35:LYS:H	15	0.15
(1,368)	1:B:38:VAL:HG11	1:B:35:LYS:H	20	0.15
(1,368)	1:B:38:VAL:HG12	1:B:35:LYS:H	20	0.15
(1,368)	1:B:38:VAL:HG13	1:B:35:LYS:H	20	0.15
(1,368)	1:B:38:VAL:HG21	1:B:35:LYS:H	20	0.15
(1,368)	1:B:38:VAL:HG22	1:B:35:LYS:H	20	0.15
(1,368)	1:B:38:VAL:HG23	1:B:35:LYS:H	20	0.15
(1,367)	1:B:48:GLY:HA2	1:B:47:THR:H	7	0.15
(1,367)	1:B:48:GLY:HA3	1:B:47:THR:H	7	0.15
(1,364)	1:B:47:THR:H	1:B:46:ARG:H	16	0.15
(1,352)	1:B:43:CYS:HA	1:B:50:CYS:HB2	11	0.15
(1,352)	1:B:43:CYS:HA	1:B:50:CYS:HB3	11	0.15
(1,34)	1:A:12:ASN:HB2	1:A:13:ARG:H	6	0.15
(1,34)	1:A:12:ASN:HB3	1:A:13:ARG:H	6	0.15
(1,34)	1:A:12:ASN:HB2	1:A:13:ARG:H	9	0.15
(1,34)	1:A:12:ASN:HB3	1:A:13:ARG:H	9	0.15
(1,34)	1:A:12:ASN:HB2	1:A:13:ARG:H	10	0.15
(1,34)	1:A:12:ASN:HB3	1:A:13:ARG:H	10	0.15
(1,34)	1:A:12:ASN:HB2	1:A:13:ARG:H	14	0.15
(1,34)	1:A:12:ASN:HB3	1:A:13:ARG:H	14	0.15
(1,34)	1:A:12:ASN:HB2	1:A:13:ARG:H	17	0.15
(1,34)	1:A:12:ASN:HB3	1:A:13:ARG:H	17	0.15
(1,336)	1:B:40:ILE:HG12	1:B:52:ARG:HE	20	0.15
(1,336)	1:B:40:ILE:HG13	1:B:52:ARG:HE	20	0.15
(1,334)	1:B:51:GLN:HG2	1:B:42:TYR:HE1	7	0.15
(1,334)	1:B:51:GLN:HG2	1:B:42:TYR:HE2	7	0.15
(1,334)	1:B:51:GLN:HG3	1:B:42:TYR:HE1	7	0.15
(1,334)	1:B:51:GLN:HG3	1:B:42:TYR:HE2	7	0.15
(1,334)	1:B:51:GLN:HG2	1:B:42:TYR:HE1	13	0.15
(1,334)	1:B:51:GLN:HG2	1:B:42:TYR:HE2	13	0.15
(1,334)	1:B:51:GLN:HG3	1:B:42:TYR:HE1	13	0.15
(1,334)	1:B:51:GLN:HG3	1:B:42:TYR:HE2	13	0.15
(1,332)	1:B:51:GLN:HA	1:B:42:TYR:HE1	8	0.15
(1,332)	1:B:51:GLN:HA	1:B:42:TYR:HE2	8	0.15
(1,332)	1:B:51:GLN:HA	1:B:42:TYR:HE1	16	0.15
(1,332)	1:B:51:GLN:HA	1:B:42:TYR:HE2	16	0.15
(1,332)	1:B:51:GLN:HA	1:B:42:TYR:HE1	20	0.15
(1,332)	1:B:51:GLN:HA	1:B:42:TYR:HE2	20	0.15
(1,325)	1:B:50:CYS:HA	1:B:42:TYR:H	17	0.15
(1,324)	1:B:52:ARG:HD2	1:B:41:ILE:H	19	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,324)	1:B:52:ARG:HD3	1:B:41:ILE:H	19	0.15
(1,322)	1:B:53:MET:HG2	1:B:40:ILE:H	2	0.15
(1,322)	1:B:53:MET:HG3	1:B:40:ILE:H	2	0.15
(1,31)	1:A:10:TYR:H	1:A:11:CYS:H	8	0.15
(1,301)	1:B:49:LYS:HD2	1:B:49:LYS:H	1	0.15
(1,301)	1:B:49:LYS:HD3	1:B:49:LYS:H	1	0.15
(1,301)	1:B:49:LYS:HD2	1:B:49:LYS:H	19	0.15
(1,301)	1:B:49:LYS:HD3	1:B:49:LYS:H	19	0.15
(1,30)	1:A:10:TYR:HB2	1:A:11:CYS:H	7	0.15
(1,30)	1:A:10:TYR:HB3	1:A:11:CYS:H	7	0.15
(1,299)	1:B:49:LYS:HA	1:B:49:LYS:H	3	0.15
(1,299)	1:B:49:LYS:HA	1:B:49:LYS:H	4	0.15
(1,299)	1:B:49:LYS:HA	1:B:49:LYS:H	5	0.15
(1,299)	1:B:49:LYS:HA	1:B:49:LYS:H	6	0.15
(1,299)	1:B:49:LYS:HA	1:B:49:LYS:H	8	0.15
(1,299)	1:B:49:LYS:HA	1:B:49:LYS:H	9	0.15
(1,299)	1:B:49:LYS:HA	1:B:49:LYS:H	11	0.15
(1,299)	1:B:49:LYS:HA	1:B:49:LYS:H	12	0.15
(1,299)	1:B:49:LYS:HA	1:B:49:LYS:H	13	0.15
(1,299)	1:B:49:LYS:HA	1:B:49:LYS:H	14	0.15
(1,299)	1:B:49:LYS:HA	1:B:49:LYS:H	15	0.15
(1,299)	1:B:49:LYS:HA	1:B:49:LYS:H	16	0.15
(1,299)	1:B:49:LYS:HA	1:B:49:LYS:H	17	0.15
(1,299)	1:B:49:LYS:HA	1:B:49:LYS:H	18	0.15
(1,299)	1:B:49:LYS:HA	1:B:49:LYS:H	20	0.15
(1,296)	1:B:47:THR:HA	1:B:47:THR:H	1	0.15
(1,296)	1:B:47:THR:HA	1:B:47:THR:H	2	0.15
(1,296)	1:B:47:THR:HA	1:B:47:THR:H	7	0.15
(1,296)	1:B:47:THR:HA	1:B:47:THR:H	8	0.15
(1,296)	1:B:47:THR:HA	1:B:47:THR:H	9	0.15
(1,296)	1:B:47:THR:HA	1:B:47:THR:H	10	0.15
(1,296)	1:B:47:THR:HA	1:B:47:THR:H	12	0.15
(1,296)	1:B:47:THR:HA	1:B:47:THR:H	13	0.15
(1,296)	1:B:47:THR:HA	1:B:47:THR:H	15	0.15
(1,296)	1:B:47:THR:HA	1:B:47:THR:H	16	0.15
(1,296)	1:B:47:THR:HA	1:B:47:THR:H	17	0.15
(1,296)	1:B:47:THR:HA	1:B:47:THR:H	19	0.15
(1,296)	1:B:47:THR:HA	1:B:47:THR:H	20	0.15
(1,294)	1:B:46:ARG:HB2	1:B:46:ARG:H	16	0.15
(1,294)	1:B:46:ARG:HB3	1:B:46:ARG:H	16	0.15
(1,27)	1:A:9:ILE:HG21	1:A:10:TYR:HD1	8	0.15
(1,27)	1:A:9:ILE:HG21	1:A:10:TYR:HD2	8	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,27)	1:A:9:ILE:HG22	1:A:10:TYR:HD1	8	0.15
(1,27)	1:A:9:ILE:HG22	1:A:10:TYR:HD2	8	0.15
(1,27)	1:A:9:ILE:HG23	1:A:10:TYR:HD1	8	0.15
(1,27)	1:A:9:ILE:HG23	1:A:10:TYR:HD2	8	0.15
(1,265)	1:B:41:ILE:HG21	1:B:41:ILE:H	6	0.15
(1,265)	1:B:41:ILE:HG22	1:B:41:ILE:H	6	0.15
(1,265)	1:B:41:ILE:HG23	1:B:41:ILE:H	6	0.15
(1,265)	1:B:41:ILE:HG21	1:B:41:ILE:H	15	0.15
(1,265)	1:B:41:ILE:HG22	1:B:41:ILE:H	15	0.15
(1,265)	1:B:41:ILE:HG23	1:B:41:ILE:H	15	0.15
(1,251)	1:B:38:VAL:HB	1:B:38:VAL:H	17	0.15
(1,233)	1:B:49:LYS:HG2	1:B:50:CYS:H	1	0.15
(1,233)	1:B:49:LYS:HG3	1:B:50:CYS:H	1	0.15
(1,233)	1:B:49:LYS:HG2	1:B:50:CYS:H	2	0.15
(1,233)	1:B:49:LYS:HG3	1:B:50:CYS:H	2	0.15
(1,232)	1:B:49:LYS:HD2	1:B:50:CYS:H	1	0.15
(1,232)	1:B:49:LYS:HD3	1:B:50:CYS:H	1	0.15
(1,232)	1:B:49:LYS:HD2	1:B:50:CYS:H	5	0.15
(1,232)	1:B:49:LYS:HD3	1:B:50:CYS:H	5	0.15
(1,232)	1:B:49:LYS:HD2	1:B:50:CYS:H	6	0.15
(1,232)	1:B:49:LYS:HD3	1:B:50:CYS:H	6	0.15
(1,232)	1:B:49:LYS:HD2	1:B:50:CYS:H	8	0.15
(1,232)	1:B:49:LYS:HD3	1:B:50:CYS:H	8	0.15
(1,232)	1:B:49:LYS:HD2	1:B:50:CYS:H	13	0.15
(1,232)	1:B:49:LYS:HD3	1:B:50:CYS:H	13	0.15
(1,221)	1:B:44:ASN:HB2	1:B:45:ARG:H	5	0.15
(1,221)	1:B:44:ASN:HB3	1:B:45:ARG:H	5	0.15
(1,221)	1:B:44:ASN:HB2	1:B:45:ARG:H	7	0.15
(1,221)	1:B:44:ASN:HB3	1:B:45:ARG:H	7	0.15
(1,221)	1:B:44:ASN:HB2	1:B:45:ARG:H	8	0.15
(1,221)	1:B:44:ASN:HB3	1:B:45:ARG:H	8	0.15
(1,217)	1:B:42:TYR:HB2	1:B:43:CYS:H	9	0.15
(1,217)	1:B:42:TYR:HB3	1:B:43:CYS:H	9	0.15
(1,215)	1:B:41:ILE:HA	1:B:42:TYR:HE1	18	0.15
(1,215)	1:B:41:ILE:HA	1:B:42:TYR:HE2	18	0.15
(1,214)	1:B:41:ILE:HG21	1:B:42:TYR:HD1	20	0.15
(1,214)	1:B:41:ILE:HG21	1:B:42:TYR:HD2	20	0.15
(1,214)	1:B:41:ILE:HG22	1:B:42:TYR:HD1	20	0.15
(1,214)	1:B:41:ILE:HG22	1:B:42:TYR:HD2	20	0.15
(1,214)	1:B:41:ILE:HG23	1:B:42:TYR:HD1	20	0.15
(1,214)	1:B:41:ILE:HG23	1:B:42:TYR:HD2	20	0.15
(1,213)	1:B:41:ILE:HB	1:B:42:TYR:HD1	8	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,213)	1:B:41:ILE:HB	1:B:42:TYR:HD2	8	0.15
(1,21)	1:A:9:ILE:H	1:A:10:TYR:H	5	0.15
(1,208)	1:B:41:ILE:H	1:B:42:TYR:H	16	0.15
(1,208)	1:B:41:ILE:H	1:B:42:TYR:H	19	0.15
(1,208)	1:B:41:ILE:H	1:B:42:TYR:H	20	0.15
(1,207)	1:B:40:ILE:HG21	1:B:41:ILE:H	8	0.15
(1,207)	1:B:40:ILE:HG22	1:B:41:ILE:H	8	0.15
(1,207)	1:B:40:ILE:HG23	1:B:41:ILE:H	8	0.15
(1,207)	1:B:40:ILE:HG21	1:B:41:ILE:H	19	0.15
(1,207)	1:B:40:ILE:HG22	1:B:41:ILE:H	19	0.15
(1,207)	1:B:40:ILE:HG23	1:B:41:ILE:H	19	0.15
(1,20)	1:A:8:ILE:HG21	1:A:9:ILE:H	2	0.15
(1,20)	1:A:8:ILE:HG22	1:A:9:ILE:H	2	0.15
(1,20)	1:A:8:ILE:HG23	1:A:9:ILE:H	2	0.15
(1,20)	1:A:8:ILE:HG21	1:A:9:ILE:H	6	0.15
(1,20)	1:A:8:ILE:HG22	1:A:9:ILE:H	6	0.15
(1,20)	1:A:8:ILE:HG23	1:A:9:ILE:H	6	0.15
(1,2)	1:A:3:LYS:HA	1:A:4:LYS:H	2	0.15
(1,189)	1:B:35:LYS:HA	1:B:36:LYS:H	8	0.15
(1,186)	1:A:20:ARG:HD2	1:A:6:VAL:H	1	0.15
(1,186)	1:A:20:ARG:HD3	1:A:6:VAL:H	1	0.15
(1,186)	1:A:20:ARG:HD2	1:A:6:VAL:H	13	0.15
(1,186)	1:A:20:ARG:HD3	1:A:6:VAL:H	13	0.15
(1,186)	1:A:20:ARG:HD2	1:A:6:VAL:H	15	0.15
(1,186)	1:A:20:ARG:HD3	1:A:6:VAL:H	15	0.15
(1,185)	1:A:6:VAL:HG11	1:A:20:ARG:HE	11	0.15
(1,185)	1:A:6:VAL:HG12	1:A:20:ARG:HE	11	0.15
(1,185)	1:A:6:VAL:HG13	1:A:20:ARG:HE	11	0.15
(1,185)	1:A:6:VAL:HG21	1:A:20:ARG:HE	11	0.15
(1,185)	1:A:6:VAL:HG22	1:A:20:ARG:HE	11	0.15
(1,185)	1:A:6:VAL:HG23	1:A:20:ARG:HE	11	0.15
(1,178)	1:A:15:THR:HG21	1:A:14:ARG:HE	10	0.15
(1,178)	1:A:15:THR:HG22	1:A:14:ARG:HE	10	0.15
(1,178)	1:A:15:THR:HG23	1:A:14:ARG:HE	10	0.15
(1,177)	1:A:15:THR:H	1:A:14:ARG:H	14	0.15
(1,177)	1:A:15:THR:H	1:A:14:ARG:H	20	0.15
(1,175)	1:A:13:ARG:H	1:A:12:ASN:H	2	0.15
(1,174)	1:A:10:TYR:HA	1:A:9:ILE:H	18	0.15
(1,166)	1:A:11:CYS:HA	1:A:17:LYS:H	18	0.15
(1,166)	1:A:11:CYS:HA	1:A:17:LYS:H	20	0.15
(1,164)	1:A:18:CYS:HA	1:A:11:CYS:HB2	12	0.15
(1,164)	1:A:18:CYS:HA	1:A:11:CYS:HB3	12	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,160)	1:A:11:CYS:HA	1:A:19:GLN:H	10	0.15
(1,152)	1:A:8:ILE:HA	1:A:21:MET:H	5	0.15
(1,152)	1:A:8:ILE:HA	1:A:21:MET:H	11	0.15
(1,152)	1:A:8:ILE:HA	1:A:21:MET:H	17	0.15
(1,147)	1:A:19:GLN:HG2	1:A:10:TYR:HE1	5	0.15
(1,147)	1:A:19:GLN:HG2	1:A:10:TYR:HE2	5	0.15
(1,147)	1:A:19:GLN:HG3	1:A:10:TYR:HE1	5	0.15
(1,147)	1:A:19:GLN:HG3	1:A:10:TYR:HE2	5	0.15
(1,145)	1:A:19:GLN:HA	1:A:10:TYR:HE1	15	0.15
(1,145)	1:A:19:GLN:HA	1:A:10:TYR:HE2	15	0.15
(1,145)	1:A:19:GLN:HA	1:A:10:TYR:HE1	20	0.15
(1,145)	1:A:19:GLN:HA	1:A:10:TYR:HE2	20	0.15
(1,138)	1:A:18:CYS:HA	1:A:10:TYR:H	13	0.15
(1,135)	1:A:21:MET:HG2	1:A:8:ILE:H	1	0.15
(1,135)	1:A:21:MET:HG3	1:A:8:ILE:H	1	0.15
(1,135)	1:A:21:MET:HG2	1:A:8:ILE:H	3	0.15
(1,135)	1:A:21:MET:HG3	1:A:8:ILE:H	3	0.15
(1,135)	1:A:21:MET:HG2	1:A:8:ILE:H	10	0.15
(1,135)	1:A:21:MET:HG3	1:A:8:ILE:H	10	0.15
(1,135)	1:A:21:MET:HG2	1:A:8:ILE:H	17	0.15
(1,135)	1:A:21:MET:HG3	1:A:8:ILE:H	17	0.15
(1,112)	1:A:17:LYS:HA	1:A:17:LYS:H	2	0.15
(1,112)	1:A:17:LYS:HA	1:A:17:LYS:H	4	0.15
(1,112)	1:A:17:LYS:HA	1:A:17:LYS:H	5	0.15
(1,112)	1:A:17:LYS:HA	1:A:17:LYS:H	7	0.15
(1,112)	1:A:17:LYS:HA	1:A:17:LYS:H	9	0.15
(1,112)	1:A:17:LYS:HA	1:A:17:LYS:H	10	0.15
(1,112)	1:A:17:LYS:HA	1:A:17:LYS:H	11	0.15
(1,112)	1:A:17:LYS:HA	1:A:17:LYS:H	13	0.15
(1,112)	1:A:17:LYS:HA	1:A:17:LYS:H	14	0.15
(1,112)	1:A:17:LYS:HA	1:A:17:LYS:H	16	0.15
(1,112)	1:A:17:LYS:HA	1:A:17:LYS:H	17	0.15
(1,112)	1:A:17:LYS:HA	1:A:17:LYS:H	19	0.15
(1,112)	1:A:17:LYS:HA	1:A:17:LYS:H	20	0.15
(1,109)	1:A:15:THR:HA	1:A:15:THR:H	1	0.15
(1,109)	1:A:15:THR:HA	1:A:15:THR:H	3	0.15
(1,109)	1:A:15:THR:HA	1:A:15:THR:H	5	0.15
(1,109)	1:A:15:THR:HA	1:A:15:THR:H	6	0.15
(1,109)	1:A:15:THR:HA	1:A:15:THR:H	7	0.15
(1,109)	1:A:15:THR:HA	1:A:15:THR:H	9	0.15
(1,109)	1:A:15:THR:HA	1:A:15:THR:H	12	0.15
(1,109)	1:A:15:THR:HA	1:A:15:THR:H	14	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,109)	1:A:15:THR:HA	1:A:15:THR:H	15	0.15
(1,109)	1:A:15:THR:HA	1:A:15:THR:H	16	0.15
(1,109)	1:A:15:THR:HA	1:A:15:THR:H	17	0.15
(1,109)	1:A:15:THR:HA	1:A:15:THR:H	19	0.15
(1,109)	1:A:15:THR:HA	1:A:15:THR:H	20	0.15
(2,1)	1:A:3:LYS:HA	1:A:8:ILE:HA	14	0.14
(1,82)	1:A:10:TYR:HE1	1:A:10:TYR:H	14	0.14
(1,82)	1:A:10:TYR:HE2	1:A:10:TYR:H	14	0.14
(1,64)	1:A:6:VAL:HB	1:A:6:VAL:H	19	0.14
(1,52)	1:A:3:LYS:HB2	1:A:3:LYS:H	7	0.14
(1,52)	1:A:3:LYS:HB3	1:A:3:LYS:H	7	0.14
(1,48)	1:A:19:GLN:HG2	1:A:20:ARG:H	8	0.14
(1,48)	1:A:19:GLN:HG3	1:A:20:ARG:H	8	0.14
(1,48)	1:A:19:GLN:HG2	1:A:20:ARG:H	10	0.14
(1,48)	1:A:19:GLN:HG3	1:A:20:ARG:H	10	0.14
(1,48)	1:A:19:GLN:HG2	1:A:20:ARG:H	11	0.14
(1,48)	1:A:19:GLN:HG3	1:A:20:ARG:H	11	0.14
(1,48)	1:A:19:GLN:HG2	1:A:20:ARG:H	19	0.14
(1,48)	1:A:19:GLN:HG3	1:A:20:ARG:H	19	0.14
(1,47)	1:A:19:GLN:HE21	1:A:20:ARG:H	4	0.14
(1,47)	1:A:19:GLN:HE22	1:A:20:ARG:H	4	0.14
(1,47)	1:A:19:GLN:HE21	1:A:20:ARG:H	8	0.14
(1,47)	1:A:19:GLN:HE22	1:A:20:ARG:H	8	0.14
(1,46)	1:A:17:LYS:HG2	1:A:18:CYS:H	15	0.14
(1,46)	1:A:17:LYS:HG3	1:A:18:CYS:H	15	0.14
(1,45)	1:A:17:LYS:HD2	1:A:18:CYS:H	1	0.14
(1,45)	1:A:17:LYS:HD3	1:A:18:CYS:H	1	0.14
(1,45)	1:A:17:LYS:HD2	1:A:18:CYS:H	8	0.14
(1,45)	1:A:17:LYS:HD3	1:A:18:CYS:H	8	0.14
(1,45)	1:A:17:LYS:HD2	1:A:18:CYS:H	11	0.14
(1,45)	1:A:17:LYS:HD3	1:A:18:CYS:H	11	0.14
(1,45)	1:A:17:LYS:HD2	1:A:18:CYS:H	14	0.14
(1,45)	1:A:17:LYS:HD3	1:A:18:CYS:H	14	0.14
(1,45)	1:A:17:LYS:HD2	1:A:18:CYS:H	17	0.14
(1,45)	1:A:17:LYS:HD3	1:A:18:CYS:H	17	0.14
(1,45)	1:A:17:LYS:HD2	1:A:18:CYS:H	19	0.14
(1,45)	1:A:17:LYS:HD3	1:A:18:CYS:H	19	0.14
(1,380)	1:B:46:ARG:H	1:A:6:VAL:HG11	12	0.14
(1,380)	1:B:46:ARG:H	1:A:6:VAL:HG12	12	0.14
(1,380)	1:B:46:ARG:H	1:A:6:VAL:HG13	12	0.14
(1,380)	1:B:46:ARG:H	1:A:6:VAL:HG21	12	0.14
(1,380)	1:B:46:ARG:H	1:A:6:VAL:HG22	12	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,380)	1:B:46:ARG:H	1:A:6:VAL:HG23	12	0.14
(1,376)	1:B:38:VAL:HG11	1:A:11:CYS:H	4	0.14
(1,376)	1:B:38:VAL:HG12	1:A:11:CYS:H	4	0.14
(1,376)	1:B:38:VAL:HG13	1:A:11:CYS:H	4	0.14
(1,376)	1:B:38:VAL:HG21	1:A:11:CYS:H	4	0.14
(1,376)	1:B:38:VAL:HG22	1:A:11:CYS:H	4	0.14
(1,376)	1:B:38:VAL:HG23	1:A:11:CYS:H	4	0.14
(1,376)	1:B:38:VAL:HG11	1:A:11:CYS:H	6	0.14
(1,376)	1:B:38:VAL:HG12	1:A:11:CYS:H	6	0.14
(1,376)	1:B:38:VAL:HG13	1:A:11:CYS:H	6	0.14
(1,376)	1:B:38:VAL:HG21	1:A:11:CYS:H	6	0.14
(1,376)	1:B:38:VAL:HG22	1:A:11:CYS:H	6	0.14
(1,376)	1:B:38:VAL:HG23	1:A:11:CYS:H	6	0.14
(1,373)	1:B:52:ARG:HD2	1:B:38:VAL:H	8	0.14
(1,373)	1:B:52:ARG:HD3	1:B:38:VAL:H	8	0.14
(1,367)	1:B:48:GLY:HA2	1:B:47:THR:H	12	0.14
(1,367)	1:B:48:GLY:HA3	1:B:47:THR:H	12	0.14
(1,367)	1:B:48:GLY:HA2	1:B:47:THR:H	15	0.14
(1,367)	1:B:48:GLY:HA3	1:B:47:THR:H	15	0.14
(1,364)	1:B:47:THR:H	1:B:46:ARG:H	1	0.14
(1,364)	1:B:47:THR:H	1:B:46:ARG:H	2	0.14
(1,364)	1:B:47:THR:H	1:B:46:ARG:H	9	0.14
(1,364)	1:B:47:THR:H	1:B:46:ARG:H	14	0.14
(1,36)	1:A:13:ARG:HA	1:A:14:ARG:HE	6	0.14
(1,36)	1:A:13:ARG:HA	1:A:14:ARG:HE	11	0.14
(1,351)	1:B:50:CYS:HA	1:B:43:CYS:HB2	10	0.14
(1,351)	1:B:50:CYS:HA	1:B:43:CYS:HB3	10	0.14
(1,340)	1:B:40:ILE:H	1:B:53:MET:H	1	0.14
(1,340)	1:B:40:ILE:H	1:B:53:MET:H	3	0.14
(1,340)	1:B:40:ILE:H	1:B:53:MET:H	11	0.14
(1,34)	1:A:12:ASN:HB2	1:A:13:ARG:H	19	0.14
(1,34)	1:A:12:ASN:HB3	1:A:13:ARG:H	19	0.14
(1,339)	1:B:40:ILE:HA	1:B:53:MET:H	11	0.14
(1,336)	1:B:40:ILE:HG12	1:B:52:ARG:HE	7	0.14
(1,336)	1:B:40:ILE:HG13	1:B:52:ARG:HE	7	0.14
(1,334)	1:B:51:GLN:HG2	1:B:42:TYR:HE1	20	0.14
(1,334)	1:B:51:GLN:HG2	1:B:42:TYR:HE2	20	0.14
(1,334)	1:B:51:GLN:HG3	1:B:42:TYR:HE1	20	0.14
(1,334)	1:B:51:GLN:HG3	1:B:42:TYR:HE2	20	0.14
(1,325)	1:B:50:CYS:HA	1:B:42:TYR:H	4	0.14
(1,322)	1:B:53:MET:HG2	1:B:40:ILE:H	3	0.14
(1,322)	1:B:53:MET:HG3	1:B:40:ILE:H	3	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,322)	1:B:53:MET:HG2	1:B:40:ILE:H	5	0.14
(1,322)	1:B:53:MET:HG3	1:B:40:ILE:H	5	0.14
(1,322)	1:B:53:MET:HG2	1:B:40:ILE:H	8	0.14
(1,322)	1:B:53:MET:HG3	1:B:40:ILE:H	8	0.14
(1,32)	1:A:10:TYR:HD1	1:A:11:CYS:H	15	0.14
(1,32)	1:A:10:TYR:HD2	1:A:11:CYS:H	15	0.14
(1,301)	1:B:49:LYS:HD2	1:B:49:LYS:H	2	0.14
(1,301)	1:B:49:LYS:HD3	1:B:49:LYS:H	2	0.14
(1,30)	1:A:10:TYR:HB2	1:A:11:CYS:H	19	0.14
(1,30)	1:A:10:TYR:HB3	1:A:11:CYS:H	19	0.14
(1,296)	1:B:47:THR:HA	1:B:47:THR:H	3	0.14
(1,296)	1:B:47:THR:HA	1:B:47:THR:H	4	0.14
(1,296)	1:B:47:THR:HA	1:B:47:THR:H	5	0.14
(1,296)	1:B:47:THR:HA	1:B:47:THR:H	6	0.14
(1,296)	1:B:47:THR:HA	1:B:47:THR:H	11	0.14
(1,296)	1:B:47:THR:HA	1:B:47:THR:H	14	0.14
(1,296)	1:B:47:THR:HA	1:B:47:THR:H	18	0.14
(1,294)	1:B:46:ARG:HB2	1:B:46:ARG:H	12	0.14
(1,294)	1:B:46:ARG:HB3	1:B:46:ARG:H	12	0.14
(1,290)	1:B:46:ARG:HB2	1:B:46:ARG:HE	7	0.14
(1,290)	1:B:46:ARG:HB3	1:B:46:ARG:HE	7	0.14
(1,287)	1:B:46:ARG:HA	1:B:46:ARG:HE	3	0.14
(1,287)	1:B:46:ARG:HA	1:B:46:ARG:HE	6	0.14
(1,28)	1:A:9:ILE:HA	1:A:10:TYR:HE1	5	0.14
(1,28)	1:A:9:ILE:HA	1:A:10:TYR:HE2	5	0.14
(1,27)	1:A:9:ILE:HG21	1:A:10:TYR:HD1	19	0.14
(1,27)	1:A:9:ILE:HG21	1:A:10:TYR:HD2	19	0.14
(1,27)	1:A:9:ILE:HG22	1:A:10:TYR:HD1	19	0.14
(1,27)	1:A:9:ILE:HG22	1:A:10:TYR:HD2	19	0.14
(1,27)	1:A:9:ILE:HG23	1:A:10:TYR:HD1	19	0.14
(1,27)	1:A:9:ILE:HG23	1:A:10:TYR:HD2	19	0.14
(1,26)	1:A:9:ILE:HB	1:A:10:TYR:HD1	9	0.14
(1,26)	1:A:9:ILE:HB	1:A:10:TYR:HD2	9	0.14
(1,26)	1:A:9:ILE:HB	1:A:10:TYR:HD1	11	0.14
(1,26)	1:A:9:ILE:HB	1:A:10:TYR:HD2	11	0.14
(1,235)	1:B:51:GLN:HG2	1:B:52:ARG:H	3	0.14
(1,235)	1:B:51:GLN:HG3	1:B:52:ARG:H	3	0.14
(1,235)	1:B:51:GLN:HG2	1:B:52:ARG:H	11	0.14
(1,235)	1:B:51:GLN:HG3	1:B:52:ARG:H	11	0.14
(1,235)	1:B:51:GLN:HG2	1:B:52:ARG:H	13	0.14
(1,235)	1:B:51:GLN:HG3	1:B:52:ARG:H	13	0.14
(1,234)	1:B:51:GLN:HE21	1:B:52:ARG:H	14	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,234)	1:B:51:GLN:HE22	1:B:52:ARG:H	14	0.14
(1,232)	1:B:49:LYS:HD2	1:B:50:CYS:H	3	0.14
(1,232)	1:B:49:LYS:HD3	1:B:50:CYS:H	3	0.14
(1,232)	1:B:49:LYS:HD2	1:B:50:CYS:H	11	0.14
(1,232)	1:B:49:LYS:HD3	1:B:50:CYS:H	11	0.14
(1,232)	1:B:49:LYS:HD2	1:B:50:CYS:H	20	0.14
(1,232)	1:B:49:LYS:HD3	1:B:50:CYS:H	20	0.14
(1,223)	1:B:45:ARG:HA	1:B:46:ARG:HE	2	0.14
(1,223)	1:B:45:ARG:HA	1:B:46:ARG:HE	3	0.14
(1,221)	1:B:44:ASN:HB2	1:B:45:ARG:H	20	0.14
(1,221)	1:B:44:ASN:HB3	1:B:45:ARG:H	20	0.14
(1,213)	1:B:41:ILE:HB	1:B:42:TYR:HD1	13	0.14
(1,213)	1:B:41:ILE:HB	1:B:42:TYR:HD2	13	0.14
(1,21)	1:A:9:ILE:H	1:A:10:TYR:H	12	0.14
(1,21)	1:A:9:ILE:H	1:A:10:TYR:H	20	0.14
(1,208)	1:B:41:ILE:H	1:B:42:TYR:H	7	0.14
(1,208)	1:B:41:ILE:H	1:B:42:TYR:H	17	0.14
(1,207)	1:B:40:ILE:HG21	1:B:41:ILE:H	9	0.14
(1,207)	1:B:40:ILE:HG22	1:B:41:ILE:H	9	0.14
(1,207)	1:B:40:ILE:HG23	1:B:41:ILE:H	9	0.14
(1,207)	1:B:40:ILE:HG21	1:B:41:ILE:H	14	0.14
(1,207)	1:B:40:ILE:HG22	1:B:41:ILE:H	14	0.14
(1,207)	1:B:40:ILE:HG23	1:B:41:ILE:H	14	0.14
(1,20)	1:A:8:ILE:HG21	1:A:9:ILE:H	15	0.14
(1,20)	1:A:8:ILE:HG22	1:A:9:ILE:H	15	0.14
(1,20)	1:A:8:ILE:HG23	1:A:9:ILE:H	15	0.14
(1,186)	1:A:20:ARG:HD2	1:A:6:VAL:H	6	0.14
(1,186)	1:A:20:ARG:HD3	1:A:6:VAL:H	6	0.14
(1,186)	1:A:20:ARG:HD2	1:A:6:VAL:H	11	0.14
(1,186)	1:A:20:ARG:HD3	1:A:6:VAL:H	11	0.14
(1,181)	1:A:6:VAL:HG11	1:A:3:LYS:H	9	0.14
(1,181)	1:A:6:VAL:HG12	1:A:3:LYS:H	9	0.14
(1,181)	1:A:6:VAL:HG13	1:A:3:LYS:H	9	0.14
(1,181)	1:A:6:VAL:HG21	1:A:3:LYS:H	9	0.14
(1,181)	1:A:6:VAL:HG22	1:A:3:LYS:H	9	0.14
(1,181)	1:A:6:VAL:HG23	1:A:3:LYS:H	9	0.14
(1,180)	1:A:16:GLY:HA2	1:A:15:THR:H	15	0.14
(1,180)	1:A:16:GLY:HA3	1:A:15:THR:H	15	0.14
(1,177)	1:A:15:THR:H	1:A:14:ARG:H	1	0.14
(1,177)	1:A:15:THR:H	1:A:14:ARG:H	6	0.14
(1,177)	1:A:15:THR:H	1:A:14:ARG:H	9	0.14
(1,177)	1:A:15:THR:H	1:A:14:ARG:H	12	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,173)	1:A:9:ILE:HG21	1:A:8:ILE:H	12	0.14
(1,173)	1:A:9:ILE:HG22	1:A:8:ILE:H	12	0.14
(1,173)	1:A:9:ILE:HG23	1:A:8:ILE:H	12	0.14
(1,17)	1:A:4:LYS:HG2	1:A:5:PRO:HD2	17	0.14
(1,17)	1:A:4:LYS:HG2	1:A:5:PRO:HD3	17	0.14
(1,17)	1:A:4:LYS:HG3	1:A:5:PRO:HD2	17	0.14
(1,17)	1:A:4:LYS:HG3	1:A:5:PRO:HD3	17	0.14
(1,165)	1:A:11:CYS:HA	1:A:18:CYS:HB2	20	0.14
(1,165)	1:A:11:CYS:HA	1:A:18:CYS:HB3	20	0.14
(1,160)	1:A:11:CYS:HA	1:A:19:GLN:H	9	0.14
(1,153)	1:A:8:ILE:H	1:A:21:MET:H	1	0.14
(1,153)	1:A:8:ILE:H	1:A:21:MET:H	15	0.14
(1,145)	1:A:19:GLN:HA	1:A:10:TYR:HE1	5	0.14
(1,145)	1:A:19:GLN:HA	1:A:10:TYR:HE2	5	0.14
(1,138)	1:A:18:CYS:HA	1:A:10:TYR:H	2	0.14
(1,135)	1:A:21:MET:HG2	1:A:8:ILE:H	20	0.14
(1,135)	1:A:21:MET:HG3	1:A:8:ILE:H	20	0.14
(1,114)	1:A:17:LYS:HD2	1:A:17:LYS:H	1	0.14
(1,114)	1:A:17:LYS:HD3	1:A:17:LYS:H	1	0.14
(1,109)	1:A:15:THR:HA	1:A:15:THR:H	2	0.14
(1,109)	1:A:15:THR:HA	1:A:15:THR:H	4	0.14
(1,109)	1:A:15:THR:HA	1:A:15:THR:H	8	0.14
(1,109)	1:A:15:THR:HA	1:A:15:THR:H	10	0.14
(1,109)	1:A:15:THR:HA	1:A:15:THR:H	11	0.14
(1,109)	1:A:15:THR:HA	1:A:15:THR:H	13	0.14
(1,109)	1:A:15:THR:HA	1:A:15:THR:H	18	0.14
(1,103)	1:A:14:ARG:HB2	1:A:14:ARG:HE	9	0.14
(1,103)	1:A:14:ARG:HB3	1:A:14:ARG:HE	9	0.14
(1,100)	1:A:14:ARG:HA	1:A:14:ARG:HE	11	0.14
(2,1)	1:A:3:LYS:HA	1:A:8:ILE:HA	8	0.13
(1,94)	1:A:13:ARG:HA	1:A:13:ARG:HE	7	0.13
(1,94)	1:A:13:ARG:HA	1:A:13:ARG:HE	10	0.13
(1,83)	1:A:10:TYR:HA	1:A:10:TYR:HD1	12	0.13
(1,83)	1:A:10:TYR:HA	1:A:10:TYR:HD2	12	0.13
(1,82)	1:A:10:TYR:HE1	1:A:10:TYR:H	16	0.13
(1,82)	1:A:10:TYR:HE2	1:A:10:TYR:H	16	0.13
(1,8)	1:A:13:ARG:HA	1:A:14:ARG:H	16	0.13
(1,8)	1:A:13:ARG:HA	1:A:14:ARG:H	17	0.13
(1,59)	1:A:4:LYS:HG2	1:A:4:LYS:H	8	0.13
(1,59)	1:A:4:LYS:HG3	1:A:4:LYS:H	8	0.13
(1,48)	1:A:19:GLN:HG2	1:A:20:ARG:H	3	0.13
(1,48)	1:A:19:GLN:HG3	1:A:20:ARG:H	3	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,48)	1:A:19:GLN:HG2	1:A:20:ARG:H	7	0.13
(1,48)	1:A:19:GLN:HG3	1:A:20:ARG:H	7	0.13
(1,48)	1:A:19:GLN:HG2	1:A:20:ARG:H	16	0.13
(1,48)	1:A:19:GLN:HG3	1:A:20:ARG:H	16	0.13
(1,48)	1:A:19:GLN:HG2	1:A:20:ARG:H	17	0.13
(1,48)	1:A:19:GLN:HG3	1:A:20:ARG:H	17	0.13
(1,47)	1:A:19:GLN:HE21	1:A:20:ARG:H	7	0.13
(1,47)	1:A:19:GLN:HE22	1:A:20:ARG:H	7	0.13
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD11	3	0.13
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD12	3	0.13
(1,377)	1:A:14:ARG:H	1:B:40:ILE:HD13	3	0.13
(1,376)	1:B:38:VAL:HG11	1:A:11:CYS:H	16	0.13
(1,376)	1:B:38:VAL:HG12	1:A:11:CYS:H	16	0.13
(1,376)	1:B:38:VAL:HG13	1:A:11:CYS:H	16	0.13
(1,376)	1:B:38:VAL:HG21	1:A:11:CYS:H	16	0.13
(1,376)	1:B:38:VAL:HG22	1:A:11:CYS:H	16	0.13
(1,376)	1:B:38:VAL:HG23	1:A:11:CYS:H	16	0.13
(1,374)	1:B:38:VAL:HG11	1:B:41:ILE:H	13	0.13
(1,374)	1:B:38:VAL:HG12	1:B:41:ILE:H	13	0.13
(1,374)	1:B:38:VAL:HG13	1:B:41:ILE:H	13	0.13
(1,374)	1:B:38:VAL:HG21	1:B:41:ILE:H	13	0.13
(1,374)	1:B:38:VAL:HG22	1:B:41:ILE:H	13	0.13
(1,374)	1:B:38:VAL:HG23	1:B:41:ILE:H	13	0.13
(1,373)	1:B:52:ARG:HD2	1:B:38:VAL:H	4	0.13
(1,373)	1:B:52:ARG:HD3	1:B:38:VAL:H	4	0.13
(1,373)	1:B:52:ARG:HD2	1:B:38:VAL:H	10	0.13
(1,373)	1:B:52:ARG:HD3	1:B:38:VAL:H	10	0.13
(1,368)	1:B:38:VAL:HG11	1:B:35:LYS:H	13	0.13
(1,368)	1:B:38:VAL:HG12	1:B:35:LYS:H	13	0.13
(1,368)	1:B:38:VAL:HG13	1:B:35:LYS:H	13	0.13
(1,368)	1:B:38:VAL:HG21	1:B:35:LYS:H	13	0.13
(1,368)	1:B:38:VAL:HG22	1:B:35:LYS:H	13	0.13
(1,368)	1:B:38:VAL:HG23	1:B:35:LYS:H	13	0.13
(1,360)	1:B:41:ILE:HG21	1:B:40:ILE:H	16	0.13
(1,360)	1:B:41:ILE:HG22	1:B:40:ILE:H	16	0.13
(1,360)	1:B:41:ILE:HG23	1:B:40:ILE:H	16	0.13
(1,360)	1:B:41:ILE:HG21	1:B:40:ILE:H	18	0.13
(1,360)	1:B:41:ILE:HG22	1:B:40:ILE:H	18	0.13
(1,360)	1:B:41:ILE:HG23	1:B:40:ILE:H	18	0.13
(1,36)	1:A:13:ARG:HA	1:A:14:ARG:HE	4	0.13
(1,36)	1:A:13:ARG:HA	1:A:14:ARG:HE	14	0.13
(1,355)	1:B:44:ASN:H	1:B:49:LYS:H	14	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,340)	1:B:40:ILE:H	1:B:53:MET:H	4	0.13
(1,340)	1:B:40:ILE:H	1:B:53:MET:H	9	0.13
(1,340)	1:B:40:ILE:H	1:B:53:MET:H	12	0.13
(1,339)	1:B:40:ILE:HA	1:B:53:MET:H	4	0.13
(1,339)	1:B:40:ILE:HA	1:B:53:MET:H	7	0.13
(1,332)	1:B:51:GLN:HA	1:B:42:TYR:HE1	7	0.13
(1,332)	1:B:51:GLN:HA	1:B:42:TYR:HE2	7	0.13
(1,332)	1:B:51:GLN:HA	1:B:42:TYR:HE1	19	0.13
(1,332)	1:B:51:GLN:HA	1:B:42:TYR:HE2	19	0.13
(1,325)	1:B:50:CYS:HA	1:B:42:TYR:H	18	0.13
(1,325)	1:B:50:CYS:HA	1:B:42:TYR:H	20	0.13
(1,32)	1:A:10:TYR:HD1	1:A:11:CYS:H	14	0.13
(1,32)	1:A:10:TYR:HD2	1:A:11:CYS:H	14	0.13
(1,306)	1:B:51:GLN:HA	1:B:51:GLN:H	2	0.13
(1,306)	1:B:51:GLN:HA	1:B:51:GLN:H	3	0.13
(1,306)	1:B:51:GLN:HA	1:B:51:GLN:H	8	0.13
(1,306)	1:B:51:GLN:HA	1:B:51:GLN:H	10	0.13
(1,306)	1:B:51:GLN:HA	1:B:51:GLN:H	11	0.13
(1,306)	1:B:51:GLN:HA	1:B:51:GLN:H	12	0.13
(1,306)	1:B:51:GLN:HA	1:B:51:GLN:H	14	0.13
(1,306)	1:B:51:GLN:HA	1:B:51:GLN:H	16	0.13
(1,306)	1:B:51:GLN:HA	1:B:51:GLN:H	20	0.13
(1,30)	1:A:10:TYR:HB2	1:A:11:CYS:H	15	0.13
(1,30)	1:A:10:TYR:HB3	1:A:11:CYS:H	15	0.13
(1,299)	1:B:49:LYS:HA	1:B:49:LYS:H	1	0.13
(1,299)	1:B:49:LYS:HA	1:B:49:LYS:H	2	0.13
(1,299)	1:B:49:LYS:HA	1:B:49:LYS:H	7	0.13
(1,299)	1:B:49:LYS:HA	1:B:49:LYS:H	10	0.13
(1,299)	1:B:49:LYS:HA	1:B:49:LYS:H	19	0.13
(1,294)	1:B:46:ARG:HB2	1:B:46:ARG:H	3	0.13
(1,294)	1:B:46:ARG:HB3	1:B:46:ARG:H	3	0.13
(1,287)	1:B:46:ARG:HA	1:B:46:ARG:HE	11	0.13
(1,270)	1:B:42:TYR:HA	1:B:42:TYR:HD1	16	0.13
(1,270)	1:B:42:TYR:HA	1:B:42:TYR:HD2	16	0.13
(1,270)	1:B:42:TYR:HA	1:B:42:TYR:HD1	19	0.13
(1,270)	1:B:42:TYR:HA	1:B:42:TYR:HD2	19	0.13
(1,269)	1:B:42:TYR:HE1	1:B:42:TYR:H	16	0.13
(1,269)	1:B:42:TYR:HE2	1:B:42:TYR:H	16	0.13
(1,26)	1:A:9:ILE:HB	1:A:10:TYR:HD1	4	0.13
(1,26)	1:A:9:ILE:HB	1:A:10:TYR:HD2	4	0.13
(1,235)	1:B:51:GLN:HG2	1:B:52:ARG:H	6	0.13
(1,235)	1:B:51:GLN:HG3	1:B:52:ARG:H	6	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,235)	1:B:51:GLN:HG2	1:B:52:ARG:H	9	0.13
(1,235)	1:B:51:GLN:HG3	1:B:52:ARG:H	9	0.13
(1,235)	1:B:51:GLN:HG2	1:B:52:ARG:H	10	0.13
(1,235)	1:B:51:GLN:HG3	1:B:52:ARG:H	10	0.13
(1,235)	1:B:51:GLN:HG2	1:B:52:ARG:H	14	0.13
(1,235)	1:B:51:GLN:HG3	1:B:52:ARG:H	14	0.13
(1,234)	1:B:51:GLN:HE21	1:B:52:ARG:H	6	0.13
(1,234)	1:B:51:GLN:HE22	1:B:52:ARG:H	6	0.13
(1,234)	1:B:51:GLN:HE21	1:B:52:ARG:H	7	0.13
(1,234)	1:B:51:GLN:HE22	1:B:52:ARG:H	7	0.13
(1,223)	1:B:45:ARG:HA	1:B:46:ARG:HE	6	0.13
(1,223)	1:B:45:ARG:HA	1:B:46:ARG:HE	20	0.13
(1,221)	1:B:44:ASN:HB2	1:B:45:ARG:H	14	0.13
(1,221)	1:B:44:ASN:HB3	1:B:45:ARG:H	14	0.13
(1,214)	1:B:41:ILE:HG21	1:B:42:TYR:HD1	16	0.13
(1,214)	1:B:41:ILE:HG21	1:B:42:TYR:HD2	16	0.13
(1,214)	1:B:41:ILE:HG22	1:B:42:TYR:HD1	16	0.13
(1,214)	1:B:41:ILE:HG22	1:B:42:TYR:HD2	16	0.13
(1,214)	1:B:41:ILE:HG23	1:B:42:TYR:HD1	16	0.13
(1,214)	1:B:41:ILE:HG23	1:B:42:TYR:HD2	16	0.13
(1,21)	1:A:9:ILE:H	1:A:10:TYR:H	2	0.13
(1,21)	1:A:9:ILE:H	1:A:10:TYR:H	16	0.13
(1,208)	1:B:41:ILE:H	1:B:42:TYR:H	4	0.13
(1,208)	1:B:41:ILE:H	1:B:42:TYR:H	8	0.13
(1,205)	1:B:38:VAL:HG11	1:B:39:PRO:HD2	15	0.13
(1,205)	1:B:38:VAL:HG11	1:B:39:PRO:HD3	15	0.13
(1,205)	1:B:38:VAL:HG12	1:B:39:PRO:HD2	15	0.13
(1,205)	1:B:38:VAL:HG12	1:B:39:PRO:HD3	15	0.13
(1,205)	1:B:38:VAL:HG13	1:B:39:PRO:HD2	15	0.13
(1,205)	1:B:38:VAL:HG13	1:B:39:PRO:HD3	15	0.13
(1,205)	1:B:38:VAL:HG21	1:B:39:PRO:HD2	15	0.13
(1,205)	1:B:38:VAL:HG21	1:B:39:PRO:HD3	15	0.13
(1,205)	1:B:38:VAL:HG22	1:B:39:PRO:HD2	15	0.13
(1,205)	1:B:38:VAL:HG22	1:B:39:PRO:HD3	15	0.13
(1,205)	1:B:38:VAL:HG23	1:B:39:PRO:HD2	15	0.13
(1,205)	1:B:38:VAL:HG23	1:B:39:PRO:HD3	15	0.13
(1,204)	1:B:36:LYS:HG2	1:B:37:PRO:HD2	1	0.13
(1,204)	1:B:36:LYS:HG2	1:B:37:PRO:HD3	1	0.13
(1,204)	1:B:36:LYS:HG3	1:B:37:PRO:HD2	1	0.13
(1,204)	1:B:36:LYS:HG3	1:B:37:PRO:HD3	1	0.13
(1,204)	1:B:36:LYS:HG2	1:B:37:PRO:HD2	2	0.13
(1,204)	1:B:36:LYS:HG2	1:B:37:PRO:HD3	2	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,204)	1:B:36:LYS:HG3	1:B:37:PRO:HD2	2	0.13
(1,204)	1:B:36:LYS:HG3	1:B:37:PRO:HD3	2	0.13
(1,204)	1:B:36:LYS:HG2	1:B:37:PRO:HD2	19	0.13
(1,204)	1:B:36:LYS:HG2	1:B:37:PRO:HD3	19	0.13
(1,204)	1:B:36:LYS:HG3	1:B:37:PRO:HD2	19	0.13
(1,204)	1:B:36:LYS:HG3	1:B:37:PRO:HD3	19	0.13
(1,195)	1:B:45:ARG:HA	1:B:46:ARG:H	12	0.13
(1,195)	1:B:45:ARG:HA	1:B:46:ARG:H	20	0.13
(1,186)	1:A:20:ARG:HD2	1:A:6:VAL:H	2	0.13
(1,186)	1:A:20:ARG:HD3	1:A:6:VAL:H	2	0.13
(1,186)	1:A:20:ARG:HD2	1:A:6:VAL:H	7	0.13
(1,186)	1:A:20:ARG:HD3	1:A:6:VAL:H	7	0.13
(1,186)	1:A:20:ARG:HD2	1:A:6:VAL:H	16	0.13
(1,186)	1:A:20:ARG:HD3	1:A:6:VAL:H	16	0.13
(1,181)	1:A:6:VAL:HG11	1:A:3:LYS:H	18	0.13
(1,181)	1:A:6:VAL:HG12	1:A:3:LYS:H	18	0.13
(1,181)	1:A:6:VAL:HG13	1:A:3:LYS:H	18	0.13
(1,181)	1:A:6:VAL:HG21	1:A:3:LYS:H	18	0.13
(1,181)	1:A:6:VAL:HG22	1:A:3:LYS:H	18	0.13
(1,181)	1:A:6:VAL:HG23	1:A:3:LYS:H	18	0.13
(1,180)	1:A:16:GLY:HA2	1:A:15:THR:H	20	0.13
(1,180)	1:A:16:GLY:HA3	1:A:15:THR:H	20	0.13
(1,178)	1:A:15:THR:HG21	1:A:14:ARG:HE	2	0.13
(1,178)	1:A:15:THR:HG22	1:A:14:ARG:HE	2	0.13
(1,178)	1:A:15:THR:HG23	1:A:14:ARG:HE	2	0.13
(1,175)	1:A:13:ARG:H	1:A:12:ASN:H	19	0.13
(1,174)	1:A:10:TYR:HA	1:A:9:ILE:H	5	0.13
(1,173)	1:A:9:ILE:HG21	1:A:8:ILE:H	6	0.13
(1,173)	1:A:9:ILE:HG22	1:A:8:ILE:H	6	0.13
(1,173)	1:A:9:ILE:HG23	1:A:8:ILE:H	6	0.13
(1,173)	1:A:9:ILE:HG21	1:A:8:ILE:H	14	0.13
(1,173)	1:A:9:ILE:HG22	1:A:8:ILE:H	14	0.13
(1,173)	1:A:9:ILE:HG23	1:A:8:ILE:H	14	0.13
(1,17)	1:A:4:LYS:HG2	1:A:5:PRO:HD2	1	0.13
(1,17)	1:A:4:LYS:HG2	1:A:5:PRO:HD3	1	0.13
(1,17)	1:A:4:LYS:HG3	1:A:5:PRO:HD2	1	0.13
(1,17)	1:A:4:LYS:HG3	1:A:5:PRO:HD3	1	0.13
(1,166)	1:A:11:CYS:HA	1:A:17:LYS:H	12	0.13
(1,16)	1:A:2:SER:HB2	1:A:3:LYS:H	11	0.13
(1,16)	1:A:2:SER:HB3	1:A:3:LYS:H	11	0.13
(1,155)	1:A:8:ILE:HG12	1:A:21:MET:H	5	0.13
(1,155)	1:A:8:ILE:HG13	1:A:21:MET:H	5	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,153)	1:A:8:ILE:H	1:A:21:MET:H	12	0.13
(1,152)	1:A:8:ILE:HA	1:A:21:MET:H	6	0.13
(1,145)	1:A:19:GLN:HA	1:A:10:TYR:HE1	12	0.13
(1,145)	1:A:19:GLN:HA	1:A:10:TYR:HE2	12	0.13
(1,119)	1:A:19:GLN:HA	1:A:19:GLN:H	3	0.13
(1,119)	1:A:19:GLN:HA	1:A:19:GLN:H	4	0.13
(1,119)	1:A:19:GLN:HA	1:A:19:GLN:H	5	0.13
(1,119)	1:A:19:GLN:HA	1:A:19:GLN:H	12	0.13
(1,119)	1:A:19:GLN:HA	1:A:19:GLN:H	13	0.13
(1,119)	1:A:19:GLN:HA	1:A:19:GLN:H	15	0.13
(1,119)	1:A:19:GLN:HA	1:A:19:GLN:H	16	0.13
(1,119)	1:A:19:GLN:HA	1:A:19:GLN:H	17	0.13
(1,119)	1:A:19:GLN:HA	1:A:19:GLN:H	19	0.13
(1,119)	1:A:19:GLN:HA	1:A:19:GLN:H	20	0.13
(1,114)	1:A:17:LYS:HD2	1:A:17:LYS:H	6	0.13
(1,114)	1:A:17:LYS:HD3	1:A:17:LYS:H	6	0.13
(1,114)	1:A:17:LYS:HD2	1:A:17:LYS:H	8	0.13
(1,114)	1:A:17:LYS:HD3	1:A:17:LYS:H	8	0.13
(1,114)	1:A:17:LYS:HD2	1:A:17:LYS:H	18	0.13
(1,114)	1:A:17:LYS:HD3	1:A:17:LYS:H	18	0.13
(1,112)	1:A:17:LYS:HA	1:A:17:LYS:H	6	0.13
(1,112)	1:A:17:LYS:HA	1:A:17:LYS:H	8	0.13
(1,112)	1:A:17:LYS:HA	1:A:17:LYS:H	15	0.13
(1,112)	1:A:17:LYS:HA	1:A:17:LYS:H	18	0.13
(1,82)	1:A:10:TYR:HE1	1:A:10:TYR:H	9	0.12
(1,82)	1:A:10:TYR:HE2	1:A:10:TYR:H	9	0.12
(1,82)	1:A:10:TYR:HE1	1:A:10:TYR:H	11	0.12
(1,82)	1:A:10:TYR:HE2	1:A:10:TYR:H	11	0.12
(1,8)	1:A:13:ARG:HA	1:A:14:ARG:H	5	0.12
(1,8)	1:A:13:ARG:HA	1:A:14:ARG:H	9	0.12
(1,8)	1:A:13:ARG:HA	1:A:14:ARG:H	14	0.12
(1,8)	1:A:13:ARG:HA	1:A:14:ARG:H	15	0.12
(1,8)	1:A:13:ARG:HA	1:A:14:ARG:H	19	0.12
(1,8)	1:A:13:ARG:HA	1:A:14:ARG:H	20	0.12
(1,48)	1:A:19:GLN:HG2	1:A:20:ARG:H	1	0.12
(1,48)	1:A:19:GLN:HG3	1:A:20:ARG:H	1	0.12
(1,48)	1:A:19:GLN:HG2	1:A:20:ARG:H	2	0.12
(1,48)	1:A:19:GLN:HG3	1:A:20:ARG:H	2	0.12
(1,48)	1:A:19:GLN:HG2	1:A:20:ARG:H	4	0.12
(1,48)	1:A:19:GLN:HG3	1:A:20:ARG:H	4	0.12
(1,48)	1:A:19:GLN:HG2	1:A:20:ARG:H	5	0.12
(1,48)	1:A:19:GLN:HG3	1:A:20:ARG:H	5	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,48)	1:A:19:GLN:HG2	1:A:20:ARG:H	6	0.12
(1,48)	1:A:19:GLN:HG3	1:A:20:ARG:H	6	0.12
(1,47)	1:A:19:GLN:HE21	1:A:20:ARG:H	10	0.12
(1,47)	1:A:19:GLN:HE22	1:A:20:ARG:H	10	0.12
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD11	14	0.12
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD12	14	0.12
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD13	14	0.12
(1,376)	1:B:38:VAL:HG11	1:A:11:CYS:H	1	0.12
(1,376)	1:B:38:VAL:HG12	1:A:11:CYS:H	1	0.12
(1,376)	1:B:38:VAL:HG13	1:A:11:CYS:H	1	0.12
(1,376)	1:B:38:VAL:HG21	1:A:11:CYS:H	1	0.12
(1,376)	1:B:38:VAL:HG22	1:A:11:CYS:H	1	0.12
(1,376)	1:B:38:VAL:HG23	1:A:11:CYS:H	1	0.12
(1,375)	1:A:6:VAL:HG11	1:B:43:CYS:H	2	0.12
(1,375)	1:A:6:VAL:HG12	1:B:43:CYS:H	2	0.12
(1,375)	1:A:6:VAL:HG13	1:B:43:CYS:H	2	0.12
(1,375)	1:A:6:VAL:HG21	1:B:43:CYS:H	2	0.12
(1,375)	1:A:6:VAL:HG22	1:B:43:CYS:H	2	0.12
(1,375)	1:A:6:VAL:HG23	1:B:43:CYS:H	2	0.12
(1,375)	1:A:6:VAL:HG11	1:B:43:CYS:H	8	0.12
(1,375)	1:A:6:VAL:HG12	1:B:43:CYS:H	8	0.12
(1,375)	1:A:6:VAL:HG13	1:B:43:CYS:H	8	0.12
(1,375)	1:A:6:VAL:HG21	1:B:43:CYS:H	8	0.12
(1,375)	1:A:6:VAL:HG22	1:B:43:CYS:H	8	0.12
(1,375)	1:A:6:VAL:HG23	1:B:43:CYS:H	8	0.12
(1,373)	1:B:52:ARG:HD2	1:B:38:VAL:H	2	0.12
(1,373)	1:B:52:ARG:HD3	1:B:38:VAL:H	2	0.12
(1,373)	1:B:52:ARG:HD2	1:B:38:VAL:H	11	0.12
(1,373)	1:B:52:ARG:HD3	1:B:38:VAL:H	11	0.12
(1,364)	1:B:47:THR:H	1:B:46:ARG:H	11	0.12
(1,362)	1:B:45:ARG:H	1:B:44:ASN:H	5	0.12
(1,362)	1:B:45:ARG:H	1:B:44:ASN:H	8	0.12
(1,362)	1:B:45:ARG:H	1:B:44:ASN:H	14	0.12
(1,362)	1:B:45:ARG:H	1:B:44:ASN:H	20	0.12
(1,360)	1:B:41:ILE:HG21	1:B:40:ILE:H	5	0.12
(1,360)	1:B:41:ILE:HG22	1:B:40:ILE:H	5	0.12
(1,360)	1:B:41:ILE:HG23	1:B:40:ILE:H	5	0.12
(1,36)	1:A:13:ARG:HA	1:A:14:ARG:HE	8	0.12
(1,36)	1:A:13:ARG:HA	1:A:14:ARG:HE	15	0.12
(1,353)	1:B:43:CYS:HA	1:B:49:LYS:H	19	0.12
(1,351)	1:B:50:CYS:HA	1:B:43:CYS:HB2	7	0.12
(1,351)	1:B:50:CYS:HA	1:B:43:CYS:HB3	7	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,347)	1:B:43:CYS:HA	1:B:51:GLN:H	11	0.12
(1,340)	1:B:40:ILE:H	1:B:53:MET:H	2	0.12
(1,34)	1:A:12:ASN:HB2	1:A:13:ARG:H	2	0.12
(1,34)	1:A:12:ASN:HB3	1:A:13:ARG:H	2	0.12
(1,339)	1:B:40:ILE:HA	1:B:53:MET:H	5	0.12
(1,339)	1:B:40:ILE:HA	1:B:53:MET:H	20	0.12
(1,328)	1:B:51:GLN:HB2	1:B:42:TYR:HD1	7	0.12
(1,328)	1:B:51:GLN:HB2	1:B:42:TYR:HD2	7	0.12
(1,328)	1:B:51:GLN:HB3	1:B:42:TYR:HD1	7	0.12
(1,328)	1:B:51:GLN:HB3	1:B:42:TYR:HD2	7	0.12
(1,325)	1:B:50:CYS:HA	1:B:42:TYR:H	5	0.12
(1,325)	1:B:50:CYS:HA	1:B:42:TYR:H	13	0.12
(1,32)	1:A:10:TYR:HD1	1:A:11:CYS:H	16	0.12
(1,32)	1:A:10:TYR:HD2	1:A:11:CYS:H	16	0.12
(1,306)	1:B:51:GLN:HA	1:B:51:GLN:H	1	0.12
(1,306)	1:B:51:GLN:HA	1:B:51:GLN:H	4	0.12
(1,306)	1:B:51:GLN:HA	1:B:51:GLN:H	5	0.12
(1,306)	1:B:51:GLN:HA	1:B:51:GLN:H	6	0.12
(1,306)	1:B:51:GLN:HA	1:B:51:GLN:H	7	0.12
(1,306)	1:B:51:GLN:HA	1:B:51:GLN:H	9	0.12
(1,306)	1:B:51:GLN:HA	1:B:51:GLN:H	13	0.12
(1,306)	1:B:51:GLN:HA	1:B:51:GLN:H	15	0.12
(1,306)	1:B:51:GLN:HA	1:B:51:GLN:H	17	0.12
(1,306)	1:B:51:GLN:HA	1:B:51:GLN:H	18	0.12
(1,306)	1:B:51:GLN:HA	1:B:51:GLN:H	19	0.12
(1,294)	1:B:46:ARG:HB2	1:B:46:ARG:H	6	0.12
(1,294)	1:B:46:ARG:HB3	1:B:46:ARG:H	6	0.12
(1,281)	1:B:45:ARG:HA	1:B:45:ARG:HE	17	0.12
(1,269)	1:B:42:TYR:HE1	1:B:42:TYR:H	8	0.12
(1,269)	1:B:42:TYR:HE2	1:B:42:TYR:H	8	0.12
(1,269)	1:B:42:TYR:HE1	1:B:42:TYR:H	17	0.12
(1,269)	1:B:42:TYR:HE2	1:B:42:TYR:H	17	0.12
(1,269)	1:B:42:TYR:HE1	1:B:42:TYR:H	19	0.12
(1,269)	1:B:42:TYR:HE2	1:B:42:TYR:H	19	0.12
(1,26)	1:A:9:ILE:HB	1:A:10:TYR:HD1	12	0.12
(1,26)	1:A:9:ILE:HB	1:A:10:TYR:HD2	12	0.12
(1,26)	1:A:9:ILE:HB	1:A:10:TYR:HD1	16	0.12
(1,26)	1:A:9:ILE:HB	1:A:10:TYR:HD2	16	0.12
(1,26)	1:A:9:ILE:HB	1:A:10:TYR:HD1	18	0.12
(1,26)	1:A:9:ILE:HB	1:A:10:TYR:HD2	18	0.12
(1,26)	1:A:9:ILE:HB	1:A:10:TYR:HD1	20	0.12
(1,26)	1:A:9:ILE:HB	1:A:10:TYR:HD2	20	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,251)	1:B:38:VAL:HB	1:B:38:VAL:H	16	0.12
(1,245)	1:B:36:LYS:HD2	1:B:36:LYS:H	6	0.12
(1,245)	1:B:36:LYS:HD3	1:B:36:LYS:H	6	0.12
(1,241)	1:B:35:LYS:HE2	1:B:35:LYS:H	18	0.12
(1,241)	1:B:35:LYS:HE3	1:B:35:LYS:H	18	0.12
(1,235)	1:B:51:GLN:HG2	1:B:52:ARG:H	1	0.12
(1,235)	1:B:51:GLN:HG3	1:B:52:ARG:H	1	0.12
(1,235)	1:B:51:GLN:HG2	1:B:52:ARG:H	2	0.12
(1,235)	1:B:51:GLN:HG3	1:B:52:ARG:H	2	0.12
(1,235)	1:B:51:GLN:HG2	1:B:52:ARG:H	5	0.12
(1,235)	1:B:51:GLN:HG3	1:B:52:ARG:H	5	0.12
(1,235)	1:B:51:GLN:HG2	1:B:52:ARG:H	12	0.12
(1,235)	1:B:51:GLN:HG3	1:B:52:ARG:H	12	0.12
(1,235)	1:B:51:GLN:HG2	1:B:52:ARG:H	15	0.12
(1,235)	1:B:51:GLN:HG3	1:B:52:ARG:H	15	0.12
(1,235)	1:B:51:GLN:HG2	1:B:52:ARG:H	18	0.12
(1,235)	1:B:51:GLN:HG3	1:B:52:ARG:H	18	0.12
(1,235)	1:B:51:GLN:HG2	1:B:52:ARG:H	20	0.12
(1,235)	1:B:51:GLN:HG3	1:B:52:ARG:H	20	0.12
(1,234)	1:B:51:GLN:HE21	1:B:52:ARG:H	3	0.12
(1,234)	1:B:51:GLN:HE22	1:B:52:ARG:H	3	0.12
(1,234)	1:B:51:GLN:HE21	1:B:52:ARG:H	15	0.12
(1,234)	1:B:51:GLN:HE22	1:B:52:ARG:H	15	0.12
(1,223)	1:B:45:ARG:HA	1:B:46:ARG:HE	7	0.12
(1,223)	1:B:45:ARG:HA	1:B:46:ARG:HE	8	0.12
(1,223)	1:B:45:ARG:HA	1:B:46:ARG:HE	10	0.12
(1,216)	1:B:41:ILE:HG21	1:B:42:TYR:HE1	13	0.12
(1,216)	1:B:41:ILE:HG21	1:B:42:TYR:HE2	13	0.12
(1,216)	1:B:41:ILE:HG22	1:B:42:TYR:HE1	13	0.12
(1,216)	1:B:41:ILE:HG22	1:B:42:TYR:HE2	13	0.12
(1,216)	1:B:41:ILE:HG23	1:B:42:TYR:HE1	13	0.12
(1,216)	1:B:41:ILE:HG23	1:B:42:TYR:HE2	13	0.12
(1,21)	1:A:9:ILE:H	1:A:10:TYR:H	1	0.12
(1,21)	1:A:9:ILE:H	1:A:10:TYR:H	3	0.12
(1,21)	1:A:9:ILE:H	1:A:10:TYR:H	4	0.12
(1,21)	1:A:9:ILE:H	1:A:10:TYR:H	6	0.12
(1,21)	1:A:9:ILE:H	1:A:10:TYR:H	7	0.12
(1,21)	1:A:9:ILE:H	1:A:10:TYR:H	10	0.12
(1,21)	1:A:9:ILE:H	1:A:10:TYR:H	13	0.12
(1,21)	1:A:9:ILE:H	1:A:10:TYR:H	15	0.12
(1,21)	1:A:9:ILE:H	1:A:10:TYR:H	17	0.12
(1,208)	1:B:41:ILE:H	1:B:42:TYR:H	1	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,208)	1:B:41:ILE:H	1:B:42:TYR:H	2	0.12
(1,208)	1:B:41:ILE:H	1:B:42:TYR:H	3	0.12
(1,208)	1:B:41:ILE:H	1:B:42:TYR:H	5	0.12
(1,208)	1:B:41:ILE:H	1:B:42:TYR:H	9	0.12
(1,208)	1:B:41:ILE:H	1:B:42:TYR:H	10	0.12
(1,208)	1:B:41:ILE:H	1:B:42:TYR:H	11	0.12
(1,208)	1:B:41:ILE:H	1:B:42:TYR:H	12	0.12
(1,208)	1:B:41:ILE:H	1:B:42:TYR:H	13	0.12
(1,208)	1:B:41:ILE:H	1:B:42:TYR:H	14	0.12
(1,208)	1:B:41:ILE:H	1:B:42:TYR:H	18	0.12
(1,204)	1:B:36:LYS:HG2	1:B:37:PRO:HD2	3	0.12
(1,204)	1:B:36:LYS:HG2	1:B:37:PRO:HD3	3	0.12
(1,204)	1:B:36:LYS:HG3	1:B:37:PRO:HD2	3	0.12
(1,204)	1:B:36:LYS:HG3	1:B:37:PRO:HD3	3	0.12
(1,204)	1:B:36:LYS:HG2	1:B:37:PRO:HD2	9	0.12
(1,204)	1:B:36:LYS:HG2	1:B:37:PRO:HD3	9	0.12
(1,204)	1:B:36:LYS:HG3	1:B:37:PRO:HD2	9	0.12
(1,204)	1:B:36:LYS:HG3	1:B:37:PRO:HD3	9	0.12
(1,2)	1:A:3:LYS:HA	1:A:4:LYS:H	17	0.12
(1,195)	1:B:45:ARG:HA	1:B:46:ARG:H	8	0.12
(1,195)	1:B:45:ARG:HA	1:B:46:ARG:H	13	0.12
(1,195)	1:B:45:ARG:HA	1:B:46:ARG:H	15	0.12
(1,189)	1:B:35:LYS:HA	1:B:36:LYS:H	4	0.12
(1,186)	1:A:20:ARG:HD2	1:A:6:VAL:H	4	0.12
(1,186)	1:A:20:ARG:HD3	1:A:6:VAL:H	4	0.12
(1,186)	1:A:20:ARG:HD2	1:A:6:VAL:H	19	0.12
(1,186)	1:A:20:ARG:HD3	1:A:6:VAL:H	19	0.12
(1,184)	1:A:6:VAL:HG11	1:A:21:MET:H	2	0.12
(1,184)	1:A:6:VAL:HG12	1:A:21:MET:H	2	0.12
(1,184)	1:A:6:VAL:HG13	1:A:21:MET:H	2	0.12
(1,184)	1:A:6:VAL:HG21	1:A:21:MET:H	2	0.12
(1,184)	1:A:6:VAL:HG22	1:A:21:MET:H	2	0.12
(1,184)	1:A:6:VAL:HG23	1:A:21:MET:H	2	0.12
(1,184)	1:A:6:VAL:HG11	1:A:21:MET:H	17	0.12
(1,184)	1:A:6:VAL:HG12	1:A:21:MET:H	17	0.12
(1,184)	1:A:6:VAL:HG13	1:A:21:MET:H	17	0.12
(1,184)	1:A:6:VAL:HG21	1:A:21:MET:H	17	0.12
(1,184)	1:A:6:VAL:HG22	1:A:21:MET:H	17	0.12
(1,184)	1:A:6:VAL:HG23	1:A:21:MET:H	17	0.12
(1,180)	1:A:16:GLY:HA2	1:A:15:THR:H	16	0.12
(1,180)	1:A:16:GLY:HA3	1:A:15:THR:H	16	0.12
(1,18)	1:A:6:VAL:HG11	1:A:7:PRO:HD2	8	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,18)	1:A:6:VAL:HG11	1:A:7:PRO:HD3	8	0.12
(1,18)	1:A:6:VAL:HG12	1:A:7:PRO:HD2	8	0.12
(1,18)	1:A:6:VAL:HG12	1:A:7:PRO:HD3	8	0.12
(1,18)	1:A:6:VAL:HG13	1:A:7:PRO:HD2	8	0.12
(1,18)	1:A:6:VAL:HG13	1:A:7:PRO:HD3	8	0.12
(1,18)	1:A:6:VAL:HG21	1:A:7:PRO:HD2	8	0.12
(1,18)	1:A:6:VAL:HG21	1:A:7:PRO:HD3	8	0.12
(1,18)	1:A:6:VAL:HG22	1:A:7:PRO:HD2	8	0.12
(1,18)	1:A:6:VAL:HG22	1:A:7:PRO:HD3	8	0.12
(1,18)	1:A:6:VAL:HG23	1:A:7:PRO:HD2	8	0.12
(1,18)	1:A:6:VAL:HG23	1:A:7:PRO:HD3	8	0.12
(1,178)	1:A:15:THR:HG21	1:A:14:ARG:HE	18	0.12
(1,178)	1:A:15:THR:HG22	1:A:14:ARG:HE	18	0.12
(1,178)	1:A:15:THR:HG23	1:A:14:ARG:HE	18	0.12
(1,175)	1:A:13:ARG:H	1:A:12:ASN:H	10	0.12
(1,175)	1:A:13:ARG:H	1:A:12:ASN:H	14	0.12
(1,175)	1:A:13:ARG:H	1:A:12:ASN:H	16	0.12
(1,175)	1:A:13:ARG:H	1:A:12:ASN:H	17	0.12
(1,173)	1:A:9:ILE:HG21	1:A:8:ILE:H	1	0.12
(1,173)	1:A:9:ILE:HG22	1:A:8:ILE:H	1	0.12
(1,173)	1:A:9:ILE:HG23	1:A:8:ILE:H	1	0.12
(1,173)	1:A:9:ILE:HG21	1:A:8:ILE:H	11	0.12
(1,173)	1:A:9:ILE:HG22	1:A:8:ILE:H	11	0.12
(1,173)	1:A:9:ILE:HG23	1:A:8:ILE:H	11	0.12
(1,173)	1:A:9:ILE:HG21	1:A:8:ILE:H	20	0.12
(1,173)	1:A:9:ILE:HG22	1:A:8:ILE:H	20	0.12
(1,173)	1:A:9:ILE:HG23	1:A:8:ILE:H	20	0.12
(1,17)	1:A:4:LYS:HG2	1:A:5:PRO:HD2	7	0.12
(1,17)	1:A:4:LYS:HG2	1:A:5:PRO:HD3	7	0.12
(1,17)	1:A:4:LYS:HG3	1:A:5:PRO:HD2	7	0.12
(1,17)	1:A:4:LYS:HG3	1:A:5:PRO:HD3	7	0.12
(1,160)	1:A:11:CYS:HA	1:A:19:GLN:H	11	0.12
(1,16)	1:A:2:SER:HB2	1:A:3:LYS:H	10	0.12
(1,16)	1:A:2:SER:HB3	1:A:3:LYS:H	10	0.12
(1,152)	1:A:8:ILE:HA	1:A:21:MET:H	9	0.12
(1,152)	1:A:8:ILE:HA	1:A:21:MET:H	13	0.12
(1,141)	1:A:19:GLN:HB2	1:A:10:TYR:HD1	6	0.12
(1,141)	1:A:19:GLN:HB2	1:A:10:TYR:HD2	6	0.12
(1,141)	1:A:19:GLN:HB3	1:A:10:TYR:HD1	6	0.12
(1,141)	1:A:19:GLN:HB3	1:A:10:TYR:HD2	6	0.12
(1,138)	1:A:18:CYS:HA	1:A:10:TYR:H	17	0.12
(1,138)	1:A:18:CYS:HA	1:A:10:TYR:H	20	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,137)	1:A:20:ARG:HD2	1:A:9:ILE:H	20	0.12
(1,137)	1:A:20:ARG:HD3	1:A:9:ILE:H	20	0.12
(1,126)	1:A:20:ARG:HA	1:A:20:ARG:HE	12	0.12
(1,119)	1:A:19:GLN:HA	1:A:19:GLN:H	1	0.12
(1,119)	1:A:19:GLN:HA	1:A:19:GLN:H	2	0.12
(1,119)	1:A:19:GLN:HA	1:A:19:GLN:H	6	0.12
(1,119)	1:A:19:GLN:HA	1:A:19:GLN:H	7	0.12
(1,119)	1:A:19:GLN:HA	1:A:19:GLN:H	8	0.12
(1,119)	1:A:19:GLN:HA	1:A:19:GLN:H	9	0.12
(1,119)	1:A:19:GLN:HA	1:A:19:GLN:H	10	0.12
(1,119)	1:A:19:GLN:HA	1:A:19:GLN:H	11	0.12
(1,119)	1:A:19:GLN:HA	1:A:19:GLN:H	14	0.12
(1,119)	1:A:19:GLN:HA	1:A:19:GLN:H	18	0.12
(1,114)	1:A:17:LYS:HD2	1:A:17:LYS:H	3	0.12
(1,114)	1:A:17:LYS:HD3	1:A:17:LYS:H	3	0.12
(1,114)	1:A:17:LYS:HD2	1:A:17:LYS:H	12	0.12
(1,114)	1:A:17:LYS:HD3	1:A:17:LYS:H	12	0.12
(1,112)	1:A:17:LYS:HA	1:A:17:LYS:H	1	0.12
(1,112)	1:A:17:LYS:HA	1:A:17:LYS:H	3	0.12
(1,112)	1:A:17:LYS:HA	1:A:17:LYS:H	12	0.12
(1,100)	1:A:14:ARG:HA	1:A:14:ARG:HE	4	0.12
(1,94)	1:A:13:ARG:HA	1:A:13:ARG:HE	3	0.11
(1,83)	1:A:10:TYR:HA	1:A:10:TYR:HD1	14	0.11
(1,83)	1:A:10:TYR:HA	1:A:10:TYR:HD2	14	0.11
(1,82)	1:A:10:TYR:HE1	1:A:10:TYR:H	4	0.11
(1,82)	1:A:10:TYR:HE2	1:A:10:TYR:H	4	0.11
(1,82)	1:A:10:TYR:HE1	1:A:10:TYR:H	12	0.11
(1,82)	1:A:10:TYR:HE2	1:A:10:TYR:H	12	0.11
(1,82)	1:A:10:TYR:HE1	1:A:10:TYR:H	15	0.11
(1,82)	1:A:10:TYR:HE2	1:A:10:TYR:H	15	0.11
(1,82)	1:A:10:TYR:HE1	1:A:10:TYR:H	17	0.11
(1,82)	1:A:10:TYR:HE2	1:A:10:TYR:H	17	0.11
(1,82)	1:A:10:TYR:HE1	1:A:10:TYR:H	18	0.11
(1,82)	1:A:10:TYR:HE2	1:A:10:TYR:H	18	0.11
(1,82)	1:A:10:TYR:HE1	1:A:10:TYR:H	19	0.11
(1,82)	1:A:10:TYR:HE2	1:A:10:TYR:H	19	0.11
(1,8)	1:A:13:ARG:HA	1:A:14:ARG:H	1	0.11
(1,8)	1:A:13:ARG:HA	1:A:14:ARG:H	6	0.11
(1,8)	1:A:13:ARG:HA	1:A:14:ARG:H	12	0.11
(1,58)	1:A:4:LYS:HD2	1:A:4:LYS:H	2	0.11
(1,58)	1:A:4:LYS:HD3	1:A:4:LYS:H	2	0.11
(1,48)	1:A:19:GLN:HG2	1:A:20:ARG:H	9	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,48)	1:A:19:GLN:HG3	1:A:20:ARG:H	9	0.11
(1,48)	1:A:19:GLN:HG2	1:A:20:ARG:H	13	0.11
(1,48)	1:A:19:GLN:HG3	1:A:20:ARG:H	13	0.11
(1,47)	1:A:19:GLN:HE21	1:A:20:ARG:H	1	0.11
(1,47)	1:A:19:GLN:HE22	1:A:20:ARG:H	1	0.11
(1,47)	1:A:19:GLN:HE21	1:A:20:ARG:H	13	0.11
(1,47)	1:A:19:GLN:HE22	1:A:20:ARG:H	13	0.11
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD11	5	0.11
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD12	5	0.11
(1,378)	1:B:46:ARG:H	1:A:8:ILE:HD13	5	0.11
(1,376)	1:B:38:VAL:HG11	1:A:11:CYS:H	11	0.11
(1,376)	1:B:38:VAL:HG12	1:A:11:CYS:H	11	0.11
(1,376)	1:B:38:VAL:HG13	1:A:11:CYS:H	11	0.11
(1,376)	1:B:38:VAL:HG21	1:A:11:CYS:H	11	0.11
(1,376)	1:B:38:VAL:HG22	1:A:11:CYS:H	11	0.11
(1,376)	1:B:38:VAL:HG23	1:A:11:CYS:H	11	0.11
(1,376)	1:B:38:VAL:HG11	1:A:11:CYS:H	13	0.11
(1,376)	1:B:38:VAL:HG12	1:A:11:CYS:H	13	0.11
(1,376)	1:B:38:VAL:HG13	1:A:11:CYS:H	13	0.11
(1,376)	1:B:38:VAL:HG21	1:A:11:CYS:H	13	0.11
(1,376)	1:B:38:VAL:HG22	1:A:11:CYS:H	13	0.11
(1,376)	1:B:38:VAL:HG23	1:A:11:CYS:H	13	0.11
(1,374)	1:B:38:VAL:HG11	1:B:41:ILE:H	4	0.11
(1,374)	1:B:38:VAL:HG12	1:B:41:ILE:H	4	0.11
(1,374)	1:B:38:VAL:HG13	1:B:41:ILE:H	4	0.11
(1,374)	1:B:38:VAL:HG21	1:B:41:ILE:H	4	0.11
(1,374)	1:B:38:VAL:HG22	1:B:41:ILE:H	4	0.11
(1,374)	1:B:38:VAL:HG23	1:B:41:ILE:H	4	0.11
(1,374)	1:B:38:VAL:HG11	1:B:41:ILE:H	14	0.11
(1,374)	1:B:38:VAL:HG12	1:B:41:ILE:H	14	0.11
(1,374)	1:B:38:VAL:HG13	1:B:41:ILE:H	14	0.11
(1,374)	1:B:38:VAL:HG21	1:B:41:ILE:H	14	0.11
(1,374)	1:B:38:VAL:HG22	1:B:41:ILE:H	14	0.11
(1,374)	1:B:38:VAL:HG23	1:B:41:ILE:H	14	0.11
(1,373)	1:B:52:ARG:HD2	1:B:38:VAL:H	3	0.11
(1,373)	1:B:52:ARG:HD3	1:B:38:VAL:H	3	0.11
(1,371)	1:B:38:VAL:HG11	1:B:53:MET:H	1	0.11
(1,371)	1:B:38:VAL:HG12	1:B:53:MET:H	1	0.11
(1,371)	1:B:38:VAL:HG13	1:B:53:MET:H	1	0.11
(1,371)	1:B:38:VAL:HG21	1:B:53:MET:H	1	0.11
(1,371)	1:B:38:VAL:HG22	1:B:53:MET:H	1	0.11
(1,371)	1:B:38:VAL:HG23	1:B:53:MET:H	1	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,371)	1:B:38:VAL:HG11	1:B:53:MET:H	5	0.11
(1,371)	1:B:38:VAL:HG12	1:B:53:MET:H	5	0.11
(1,371)	1:B:38:VAL:HG13	1:B:53:MET:H	5	0.11
(1,371)	1:B:38:VAL:HG21	1:B:53:MET:H	5	0.11
(1,371)	1:B:38:VAL:HG22	1:B:53:MET:H	5	0.11
(1,371)	1:B:38:VAL:HG23	1:B:53:MET:H	5	0.11
(1,371)	1:B:38:VAL:HG11	1:B:53:MET:H	17	0.11
(1,371)	1:B:38:VAL:HG12	1:B:53:MET:H	17	0.11
(1,371)	1:B:38:VAL:HG13	1:B:53:MET:H	17	0.11
(1,371)	1:B:38:VAL:HG21	1:B:53:MET:H	17	0.11
(1,371)	1:B:38:VAL:HG22	1:B:53:MET:H	17	0.11
(1,371)	1:B:38:VAL:HG23	1:B:53:MET:H	17	0.11
(1,362)	1:B:45:ARG:H	1:B:44:ASN:H	4	0.11
(1,362)	1:B:45:ARG:H	1:B:44:ASN:H	6	0.11
(1,362)	1:B:45:ARG:H	1:B:44:ASN:H	11	0.11
(1,362)	1:B:45:ARG:H	1:B:44:ASN:H	15	0.11
(1,361)	1:B:42:TYR:HA	1:B:41:ILE:H	16	0.11
(1,360)	1:B:41:ILE:HG21	1:B:40:ILE:H	1	0.11
(1,360)	1:B:41:ILE:HG22	1:B:40:ILE:H	1	0.11
(1,360)	1:B:41:ILE:HG23	1:B:40:ILE:H	1	0.11
(1,360)	1:B:41:ILE:HG21	1:B:40:ILE:H	20	0.11
(1,360)	1:B:41:ILE:HG22	1:B:40:ILE:H	20	0.11
(1,360)	1:B:41:ILE:HG23	1:B:40:ILE:H	20	0.11
(1,36)	1:A:13:ARG:HA	1:A:14:ARG:HE	17	0.11
(1,354)	1:B:50:CYS:HA	1:B:44:ASN:H	14	0.11
(1,353)	1:B:43:CYS:HA	1:B:49:LYS:H	10	0.11
(1,35)	1:A:12:ASN:HD21	1:A:13:ARG:H	15	0.11
(1,35)	1:A:12:ASN:HD22	1:A:13:ARG:H	15	0.11
(1,35)	1:A:12:ASN:HD21	1:A:13:ARG:H	18	0.11
(1,35)	1:A:12:ASN:HD22	1:A:13:ARG:H	18	0.11
(1,339)	1:B:40:ILE:HA	1:B:53:MET:H	12	0.11
(1,329)	1:B:51:GLN:HG2	1:B:42:TYR:HD1	17	0.11
(1,329)	1:B:51:GLN:HG2	1:B:42:TYR:HD2	17	0.11
(1,329)	1:B:51:GLN:HG3	1:B:42:TYR:HD1	17	0.11
(1,329)	1:B:51:GLN:HG3	1:B:42:TYR:HD2	17	0.11
(1,328)	1:B:51:GLN:HB2	1:B:42:TYR:HD1	1	0.11
(1,328)	1:B:51:GLN:HB2	1:B:42:TYR:HD2	1	0.11
(1,328)	1:B:51:GLN:HB3	1:B:42:TYR:HD1	1	0.11
(1,328)	1:B:51:GLN:HB3	1:B:42:TYR:HD2	1	0.11
(1,328)	1:B:51:GLN:HB2	1:B:42:TYR:HD1	18	0.11
(1,328)	1:B:51:GLN:HB2	1:B:42:TYR:HD2	18	0.11
(1,328)	1:B:51:GLN:HB3	1:B:42:TYR:HD1	18	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,328)	1:B:51:GLN:HB3	1:B:42:TYR:HD2	18	0.11
(1,328)	1:B:51:GLN:HB2	1:B:42:TYR:HD1	20	0.11
(1,328)	1:B:51:GLN:HB2	1:B:42:TYR:HD2	20	0.11
(1,328)	1:B:51:GLN:HB3	1:B:42:TYR:HD1	20	0.11
(1,328)	1:B:51:GLN:HB3	1:B:42:TYR:HD2	20	0.11
(1,325)	1:B:50:CYS:HA	1:B:42:TYR:H	15	0.11
(1,322)	1:B:53:MET:HG2	1:B:40:ILE:H	11	0.11
(1,322)	1:B:53:MET:HG3	1:B:40:ILE:H	11	0.11
(1,32)	1:A:10:TYR:HD1	1:A:11:CYS:H	11	0.11
(1,32)	1:A:10:TYR:HD2	1:A:11:CYS:H	11	0.11
(1,304)	1:B:50:CYS:HB2	1:B:50:CYS:H	1	0.11
(1,304)	1:B:50:CYS:HB3	1:B:50:CYS:H	1	0.11
(1,29)	1:A:9:ILE:HG21	1:A:10:TYR:HE1	14	0.11
(1,29)	1:A:9:ILE:HG21	1:A:10:TYR:HE2	14	0.11
(1,29)	1:A:9:ILE:HG22	1:A:10:TYR:HE1	14	0.11
(1,29)	1:A:9:ILE:HG22	1:A:10:TYR:HE2	14	0.11
(1,29)	1:A:9:ILE:HG23	1:A:10:TYR:HE1	14	0.11
(1,29)	1:A:9:ILE:HG23	1:A:10:TYR:HE2	14	0.11
(1,29)	1:A:9:ILE:HG21	1:A:10:TYR:HE1	16	0.11
(1,29)	1:A:9:ILE:HG21	1:A:10:TYR:HE2	16	0.11
(1,29)	1:A:9:ILE:HG22	1:A:10:TYR:HE1	16	0.11
(1,29)	1:A:9:ILE:HG22	1:A:10:TYR:HE2	16	0.11
(1,29)	1:A:9:ILE:HG23	1:A:10:TYR:HE1	16	0.11
(1,29)	1:A:9:ILE:HG23	1:A:10:TYR:HE2	16	0.11
(1,29)	1:A:9:ILE:HG21	1:A:10:TYR:HE1	17	0.11
(1,29)	1:A:9:ILE:HG21	1:A:10:TYR:HE2	17	0.11
(1,29)	1:A:9:ILE:HG22	1:A:10:TYR:HE1	17	0.11
(1,29)	1:A:9:ILE:HG22	1:A:10:TYR:HE2	17	0.11
(1,29)	1:A:9:ILE:HG23	1:A:10:TYR:HE1	17	0.11
(1,29)	1:A:9:ILE:HG23	1:A:10:TYR:HE2	17	0.11
(1,269)	1:B:42:TYR:HE1	1:B:42:TYR:H	11	0.11
(1,269)	1:B:42:TYR:HE2	1:B:42:TYR:H	11	0.11
(1,269)	1:B:42:TYR:HE1	1:B:42:TYR:H	13	0.11
(1,269)	1:B:42:TYR:HE2	1:B:42:TYR:H	13	0.11
(1,26)	1:A:9:ILE:HB	1:A:10:TYR:HD1	8	0.11
(1,26)	1:A:9:ILE:HB	1:A:10:TYR:HD2	8	0.11
(1,26)	1:A:9:ILE:HB	1:A:10:TYR:HD1	13	0.11
(1,26)	1:A:9:ILE:HB	1:A:10:TYR:HD2	13	0.11
(1,26)	1:A:9:ILE:HB	1:A:10:TYR:HD1	15	0.11
(1,26)	1:A:9:ILE:HB	1:A:10:TYR:HD2	15	0.11
(1,26)	1:A:9:ILE:HB	1:A:10:TYR:HD1	17	0.11
(1,26)	1:A:9:ILE:HB	1:A:10:TYR:HD2	17	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,235)	1:B:51:GLN:HG2	1:B:52:ARG:H	4	0.11
(1,235)	1:B:51:GLN:HG3	1:B:52:ARG:H	4	0.11
(1,234)	1:B:51:GLN:HE21	1:B:52:ARG:H	2	0.11
(1,234)	1:B:51:GLN:HE22	1:B:52:ARG:H	2	0.11
(1,234)	1:B:51:GLN:HE21	1:B:52:ARG:H	8	0.11
(1,234)	1:B:51:GLN:HE22	1:B:52:ARG:H	8	0.11
(1,234)	1:B:51:GLN:HE21	1:B:52:ARG:H	9	0.11
(1,234)	1:B:51:GLN:HE22	1:B:52:ARG:H	9	0.11
(1,234)	1:B:51:GLN:HE21	1:B:52:ARG:H	12	0.11
(1,234)	1:B:51:GLN:HE22	1:B:52:ARG:H	12	0.11
(1,234)	1:B:51:GLN:HE21	1:B:52:ARG:H	17	0.11
(1,234)	1:B:51:GLN:HE22	1:B:52:ARG:H	17	0.11
(1,232)	1:B:49:LYS:HD2	1:B:50:CYS:H	7	0.11
(1,232)	1:B:49:LYS:HD3	1:B:50:CYS:H	7	0.11
(1,228)	1:B:47:THR:HG21	1:B:48:GLY:H	14	0.11
(1,228)	1:B:47:THR:HG22	1:B:48:GLY:H	14	0.11
(1,228)	1:B:47:THR:HG23	1:B:48:GLY:H	14	0.11
(1,216)	1:B:41:ILE:HG21	1:B:42:TYR:HE1	11	0.11
(1,216)	1:B:41:ILE:HG21	1:B:42:TYR:HE2	11	0.11
(1,216)	1:B:41:ILE:HG22	1:B:42:TYR:HE1	11	0.11
(1,216)	1:B:41:ILE:HG22	1:B:42:TYR:HE2	11	0.11
(1,216)	1:B:41:ILE:HG23	1:B:42:TYR:HE1	11	0.11
(1,216)	1:B:41:ILE:HG23	1:B:42:TYR:HE2	11	0.11
(1,213)	1:B:41:ILE:HB	1:B:42:TYR:HD1	4	0.11
(1,213)	1:B:41:ILE:HB	1:B:42:TYR:HD2	4	0.11
(1,213)	1:B:41:ILE:HB	1:B:42:TYR:HD1	6	0.11
(1,213)	1:B:41:ILE:HB	1:B:42:TYR:HD2	6	0.11
(1,213)	1:B:41:ILE:HB	1:B:42:TYR:HD1	7	0.11
(1,213)	1:B:41:ILE:HB	1:B:42:TYR:HD2	7	0.11
(1,213)	1:B:41:ILE:HB	1:B:42:TYR:HD1	15	0.11
(1,213)	1:B:41:ILE:HB	1:B:42:TYR:HD2	15	0.11
(1,21)	1:A:9:ILE:H	1:A:10:TYR:H	8	0.11
(1,208)	1:B:41:ILE:H	1:B:42:TYR:H	6	0.11
(1,208)	1:B:41:ILE:H	1:B:42:TYR:H	15	0.11
(1,204)	1:B:36:LYS:HG2	1:B:37:PRO:HD2	8	0.11
(1,204)	1:B:36:LYS:HG2	1:B:37:PRO:HD3	8	0.11
(1,204)	1:B:36:LYS:HG3	1:B:37:PRO:HD2	8	0.11
(1,204)	1:B:36:LYS:HG3	1:B:37:PRO:HD3	8	0.11
(1,204)	1:B:36:LYS:HG2	1:B:37:PRO:HD2	17	0.11
(1,204)	1:B:36:LYS:HG2	1:B:37:PRO:HD3	17	0.11
(1,204)	1:B:36:LYS:HG3	1:B:37:PRO:HD2	17	0.11
(1,204)	1:B:36:LYS:HG3	1:B:37:PRO:HD3	17	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,20)	1:A:8:ILE:HG21	1:A:9:ILE:H	13	0.11
(1,20)	1:A:8:ILE:HG22	1:A:9:ILE:H	13	0.11
(1,20)	1:A:8:ILE:HG23	1:A:9:ILE:H	13	0.11
(1,20)	1:A:8:ILE:HG21	1:A:9:ILE:H	17	0.11
(1,20)	1:A:8:ILE:HG22	1:A:9:ILE:H	17	0.11
(1,20)	1:A:8:ILE:HG23	1:A:9:ILE:H	17	0.11
(1,2)	1:A:3:LYS:HA	1:A:4:LYS:H	6	0.11
(1,195)	1:B:45:ARG:HA	1:B:46:ARG:H	1	0.11
(1,195)	1:B:45:ARG:HA	1:B:46:ARG:H	2	0.11
(1,195)	1:B:45:ARG:HA	1:B:46:ARG:H	9	0.11
(1,195)	1:B:45:ARG:HA	1:B:46:ARG:H	16	0.11
(1,189)	1:B:35:LYS:HA	1:B:36:LYS:H	17	0.11
(1,186)	1:A:20:ARG:HD2	1:A:6:VAL:H	3	0.11
(1,186)	1:A:20:ARG:HD3	1:A:6:VAL:H	3	0.11
(1,184)	1:A:6:VAL:HG11	1:A:21:MET:H	6	0.11
(1,184)	1:A:6:VAL:HG12	1:A:21:MET:H	6	0.11
(1,184)	1:A:6:VAL:HG13	1:A:21:MET:H	6	0.11
(1,184)	1:A:6:VAL:HG21	1:A:21:MET:H	6	0.11
(1,184)	1:A:6:VAL:HG22	1:A:21:MET:H	6	0.11
(1,184)	1:A:6:VAL:HG23	1:A:21:MET:H	6	0.11
(1,177)	1:A:15:THR:H	1:A:14:ARG:H	4	0.11
(1,175)	1:A:13:ARG:H	1:A:12:ASN:H	5	0.11
(1,175)	1:A:13:ARG:H	1:A:12:ASN:H	9	0.11
(1,175)	1:A:13:ARG:H	1:A:12:ASN:H	13	0.11
(1,173)	1:A:9:ILE:HG21	1:A:8:ILE:H	2	0.11
(1,173)	1:A:9:ILE:HG22	1:A:8:ILE:H	2	0.11
(1,173)	1:A:9:ILE:HG23	1:A:8:ILE:H	2	0.11
(1,165)	1:A:11:CYS:HA	1:A:18:CYS:HB2	15	0.11
(1,165)	1:A:11:CYS:HA	1:A:18:CYS:HB3	15	0.11
(1,164)	1:A:18:CYS:HA	1:A:11:CYS:HB2	6	0.11
(1,164)	1:A:18:CYS:HA	1:A:11:CYS:HB3	6	0.11
(1,162)	1:A:10:TYR:HB2	1:A:19:GLN:HE21	18	0.11
(1,162)	1:A:10:TYR:HB2	1:A:19:GLN:HE22	18	0.11
(1,162)	1:A:10:TYR:HB3	1:A:19:GLN:HE21	18	0.11
(1,162)	1:A:10:TYR:HB3	1:A:19:GLN:HE22	18	0.11
(1,16)	1:A:2:SER:HB2	1:A:3:LYS:H	5	0.11
(1,16)	1:A:2:SER:HB3	1:A:3:LYS:H	5	0.11
(1,16)	1:A:2:SER:HB2	1:A:3:LYS:H	13	0.11
(1,16)	1:A:2:SER:HB3	1:A:3:LYS:H	13	0.11
(1,156)	1:A:10:TYR:HA	1:A:19:GLN:H	8	0.11
(1,152)	1:A:8:ILE:HA	1:A:21:MET:H	1	0.11
(1,152)	1:A:8:ILE:HA	1:A:21:MET:H	4	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,152)	1:A:8:ILE:HA	1:A:21:MET:H	20	0.11
(1,126)	1:A:20:ARG:HA	1:A:20:ARG:HE	14	0.11
(1,117)	1:A:18:CYS:HB2	1:A:18:CYS:H	1	0.11
(1,117)	1:A:18:CYS:HB3	1:A:18:CYS:H	1	0.11
(1,107)	1:A:14:ARG:HB2	1:A:14:ARG:H	11	0.11
(1,107)	1:A:14:ARG:HB3	1:A:14:ARG:H	11	0.11
(1,100)	1:A:14:ARG:HA	1:A:14:ARG:HE	9	0.11

10 Dihedral-angle violation analysis (i)

Dihedral angle analysis failed due to data error in the dihedral angle restraints, possibly missing target value