Full wwPDB NMR Structure Validation Report (i)

Mar 8, 2026 – 11:51 AM UTC

PDB ID	:	6WA1 / pdb_00006wa1
BMRB ID	:	30737
Title	:	Dimeric form of the trans-stabilized Hemolysin II C-terminal domain
Authors	:	Kaplan, A.R.; Alexandrescu, A.T.
Deposited on	:	2020-03-24

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

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

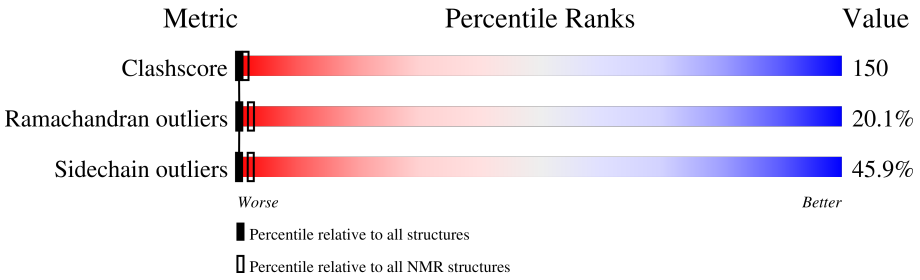
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
wwPDB-RCI	:	v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV	:	Wang et al. (2010)
wwPDB-ShiftChecker	:	v1.2
BMRB Restraints Analysis	:	v1.2
Ideal geometry (proteins)	:	Engh & Huber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

1 Overall quality at a glance (i)

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

The overall completeness of chemical shifts assignment is 17%.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	NMR archive (#Entries)
Clashscore	229148	14424
Ramachandran outliers	224038	12848
Sidechain outliers	223484	12823

The table below summarises the geometric issues observed across the polymeric chains and their fit to the experimental data. The red, orange, yellow and green segments indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria. A cyan segment indicates the fraction of residues that are not part of the well-defined cores, and a grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5%

Mol	Chain	Length	Quality of chain
1	A	94	49% 38% 10%
1	B	94	48% 39% 10%

2 Ensemble composition and analysis (i)

This entry contains 25 models. Model 1 is the overall representative, medoid model (most similar to other models).

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

Well-defined (core) protein residues			
Well-defined core	**Residue range (total)**	**Backbone RMSD (Å)**	**Medoid model**
1	A:10-A:94, B:10-B:94 (170)	2.20	1

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

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

The models can be grouped into 4 clusters. No single-model clusters were found.

Cluster number	Models
1	4, 5, 6, 7, 15, 19, 20, 22, 24
2	3, 8, 9, 12, 14, 16, 17, 23
3	1, 2, 10, 11
4	13, 18, 21, 25

3 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 2930 atoms, of which 1464 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Hemolysin II.

Mol	Chain	Residues	Atoms						Trace
1	A	94	Total	C	H	N	O	S	0
			1465	454	732	126	150	3	
1	B	94	Total	C	H	N	O	S	0
			1465	454	732	126	150	3	

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	87	MET	PRO	engineered mutation	UNP Q81AN8
B	87	MET	PRO	engineered mutation	UNP Q81AN8

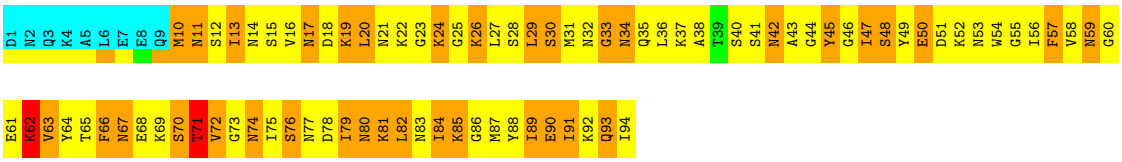
4 Residue-property plots

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.

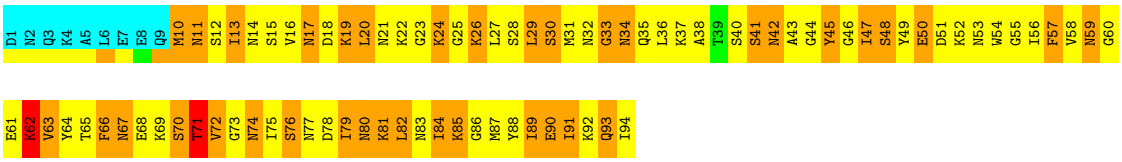
• Molecule 1: Hemolysin II

Chain A:



• Molecule 1: Hemolysin II

Chain B:



4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

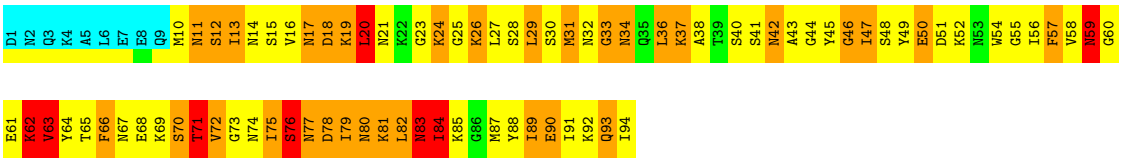
4.2.1 Score per residue for model 1 (medoid)

• Molecule 1: Hemolysin II

Chain A:

• Molecule 1: Hemolysin II

Chain B: 5% 43% 34% 9% 10%



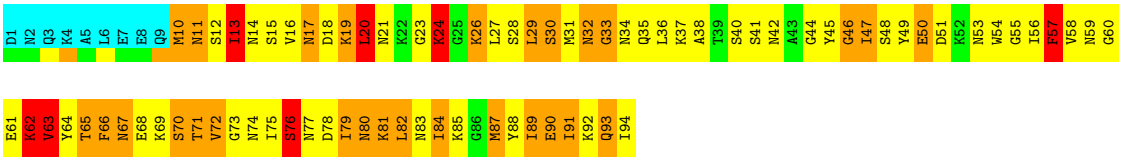
4.2.2 Score per residue for model 2

• Molecule 1: Hemolysin II

Chain A: 5% 48% 30% 7% 10%

• Molecule 1: Hemolysin II

Chain B: 6% 47% 30% 7% 10%



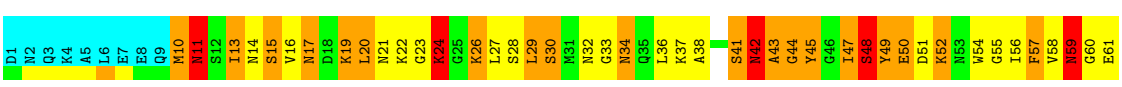
4.2.3 Score per residue for model 3

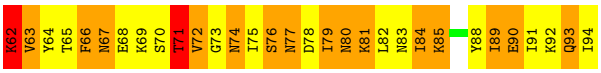
• Molecule 1: Hemolysin II

Chain A: 12% 35% 36% 7% 10%

• Molecule 1: Hemolysin II

Chain B: 12% 35% 36% 7% 10%

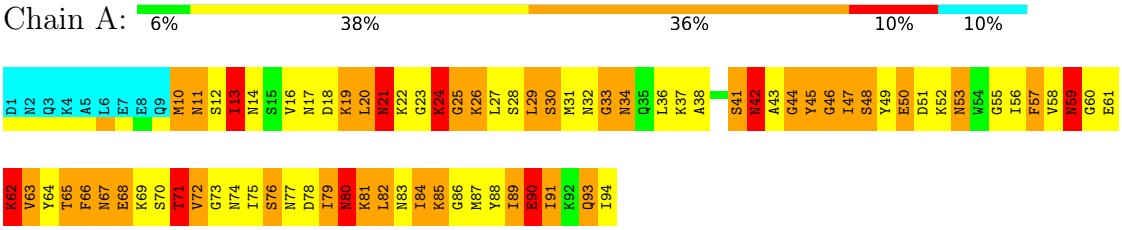




4.2.4 Score per residue for model 4

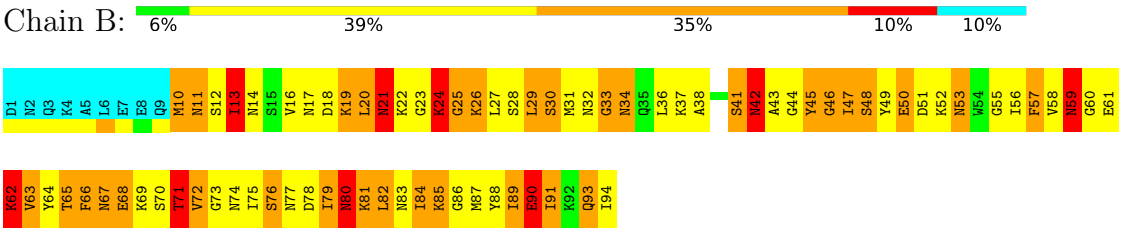
• Molecule 1: Hemolysin II

Chain A:



• Molecule 1: Hemolysin II

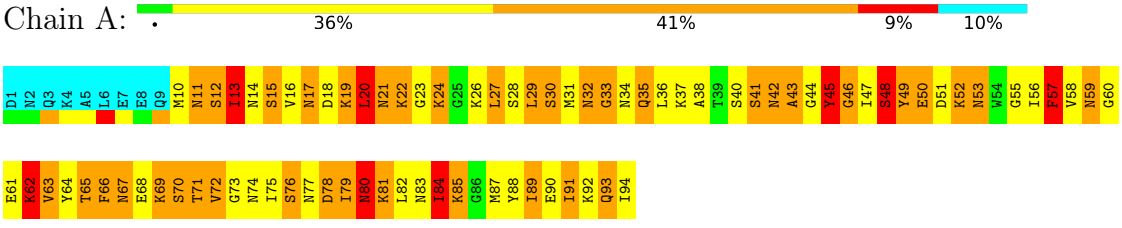
Chain B:



4.2.5 Score per residue for model 5

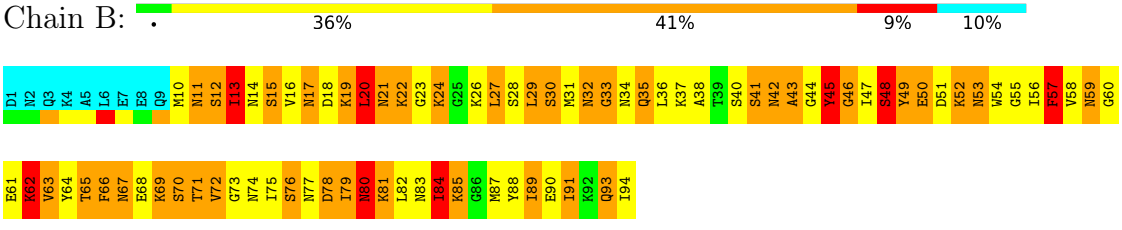
• Molecule 1: Hemolysin II

Chain A:



• Molecule 1: Hemolysin II

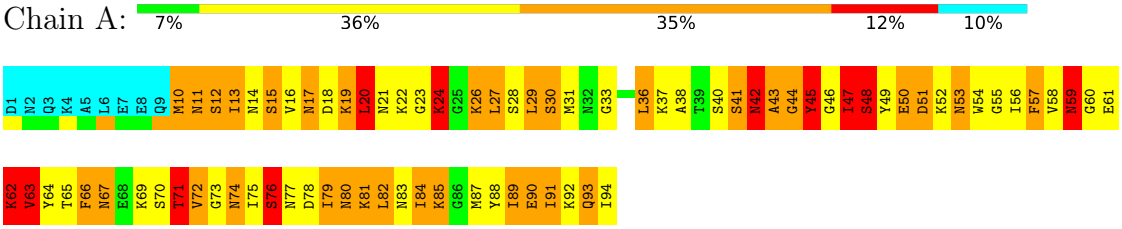
Chain B:



4.2.6 Score per residue for model 6

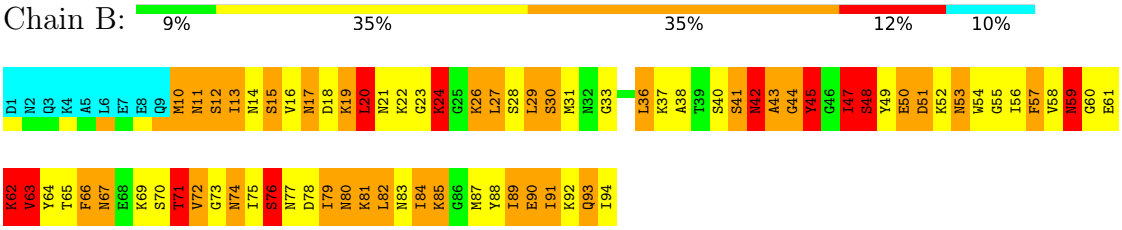
• Molecule 1: Hemolysin II

Chain A:



• Molecule 1: Hemolysin II

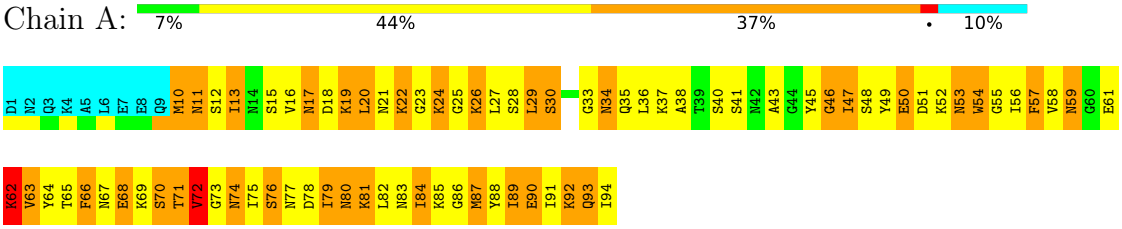
Chain B:



4.2.7 Score per residue for model 7

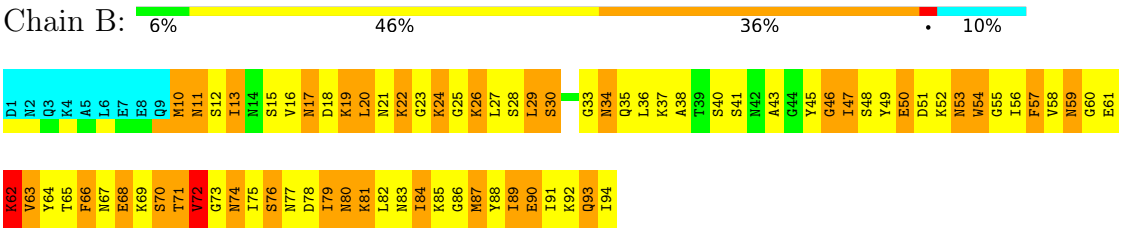
• Molecule 1: Hemolysin II

Chain A:



• Molecule 1: Hemolysin II

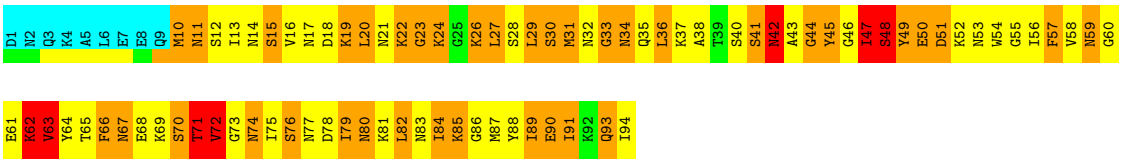
Chain B:



4.2.8 Score per residue for model 8

• Molecule 1: Hemolysin II

Chain A:

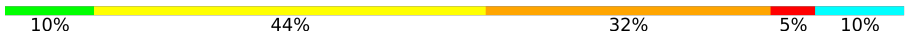


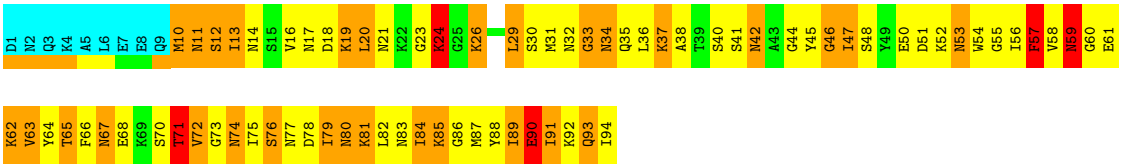
• Molecule 1: Hemolysin II

Chain B:

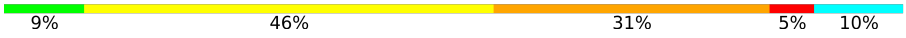
4.2.9 Score per residue for model 9

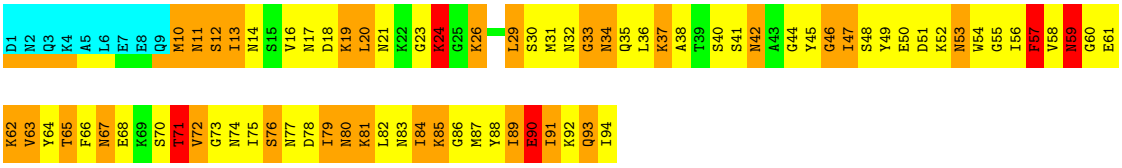
• Molecule 1: Hemolysin II

Chain A: 



• Molecule 1: Hemolysin II

Chain B: 



4.2.10 Score per residue for model 10

• Molecule 1: Hemolysin II

Chain A:

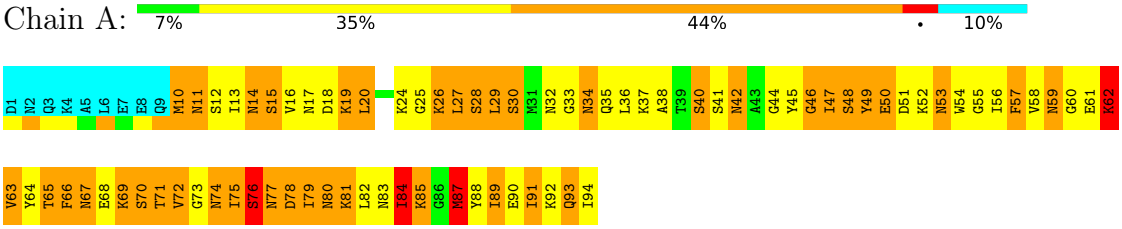
• Molecule 1: Hemolysin II

Chain B:

4.2.11 Score per residue for model 11

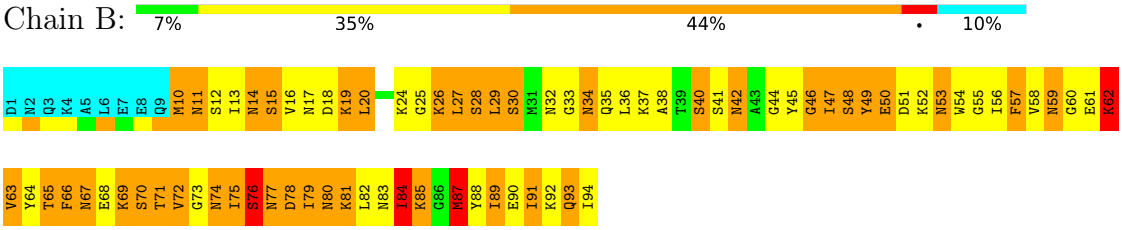
• Molecule 1: Hemolysin II

Chain A:



• Molecule 1: Hemolysin II

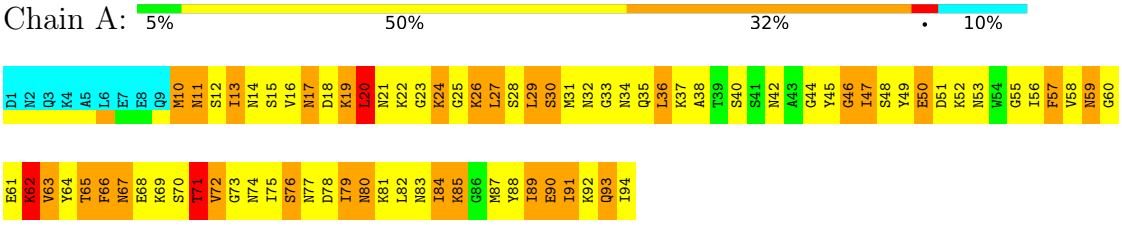
Chain B:



4.2.12 Score per residue for model 12

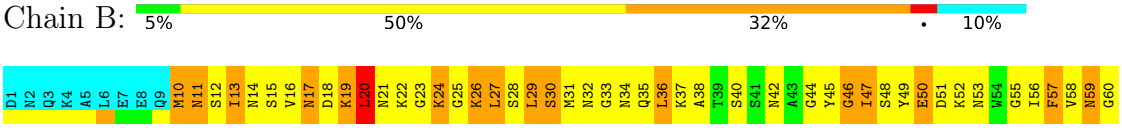
• Molecule 1: Hemolysin II

Chain A:



• Molecule 1: Hemolysin II

Chain B:



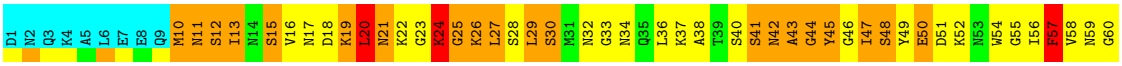
4.2.13 Score per residue for model 13

• Molecule 1: Hemolysin II

Chain A:

• Molecule 1: Hemolysin II

Chain B:



4.2.14 Score per residue for model 14

• Molecule 1: Hemolysin II

Chain A:

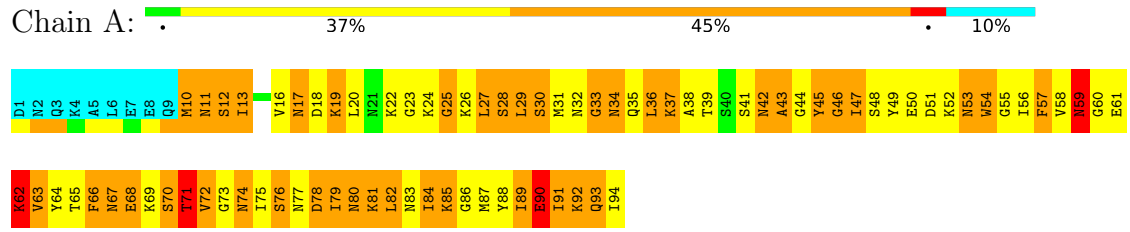
• Molecule 1: Hemolysin II

Chain B:

4.2.15 Score per residue for model 15

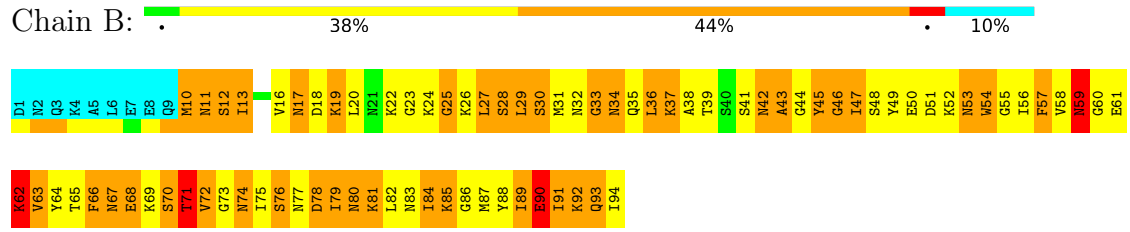
• Molecule 1: Hemolysin II

Chain A:



• Molecule 1: Hemolysin II

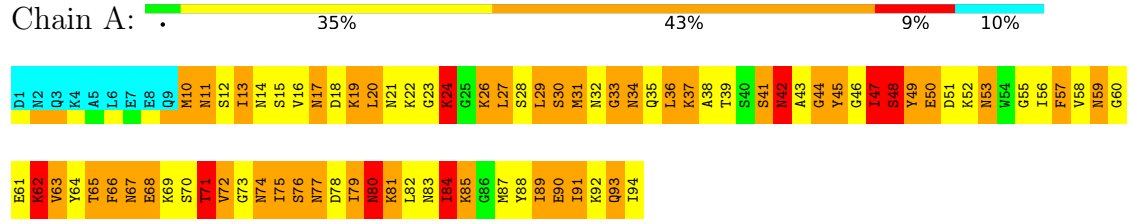
Chain B:



4.2.16 Score per residue for model 16

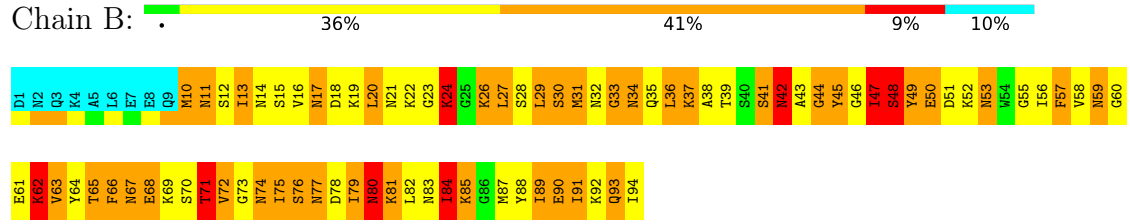
• Molecule 1: Hemolysin II

Chain A:



• Molecule 1: Hemolysin II

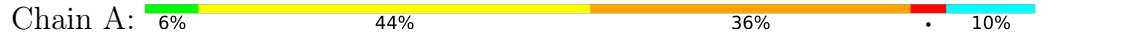
Chain B:



4.2.17 Score per residue for model 17

• Molecule 1: Hemolysin II

Chain A:



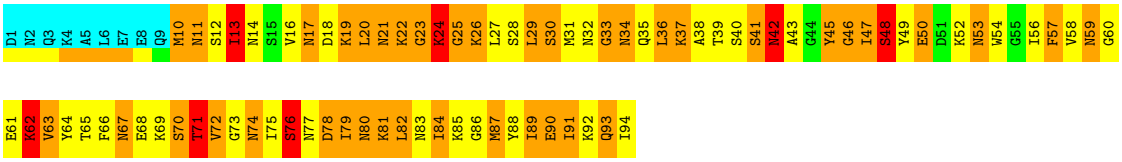
• Molecule 1: Hemolysin II

Chain B:

4.2.18 Score per residue for model 18

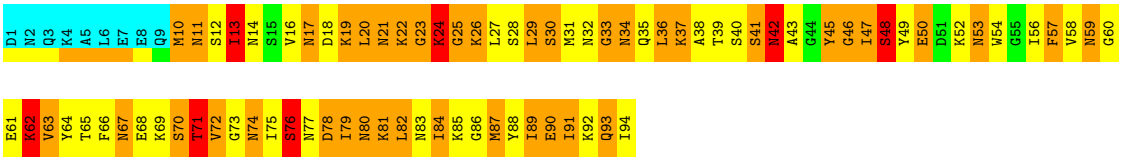
• Molecule 1: Hemolysin II

Chain A:



• Molecule 1: Hemolysin II

Chain B:



4.2.19 Score per residue for model 19

• Molecule 1: Hemolysin II

Chain A:

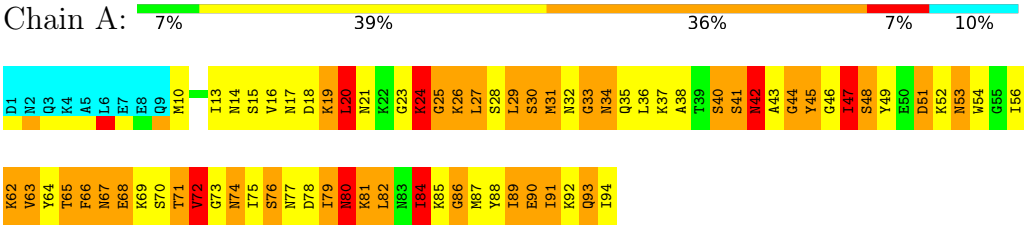
• Molecule 1: Hemolysin II

Chain B:

4.2.20 Score per residue for model 20

• Molecule 1: Hemolysin II

Chain A:



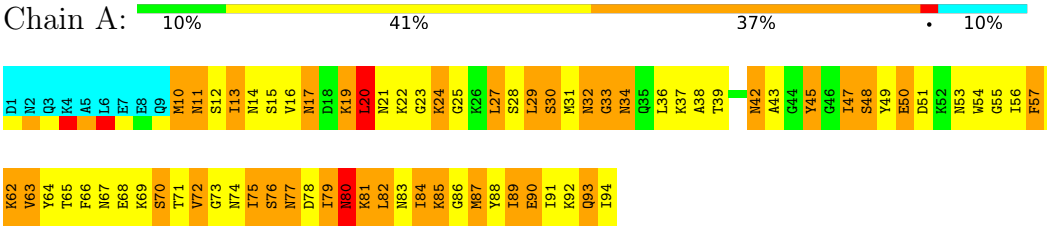
• Molecule 1: Hemolysin II

Chain B:

4.2.21 Score per residue for model 21

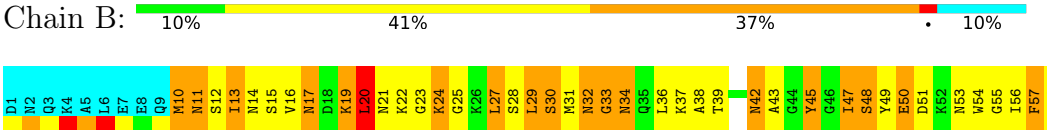
• Molecule 1: Hemolysin II

Chain A:



• Molecule 1: Hemolysin II

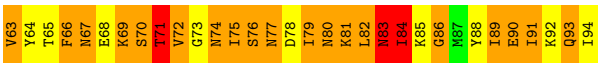
Chain B:



4.2.22 Score per residue for model 22

• Molecule 1: Hemolysin II

Chain A:



• Molecule 1: Hemolysin II

Chain B:

4.2.23 Score per residue for model 23

• Molecule 1: Hemolysin II

Chain A:

• Molecule 1: Hemolysin II

Chain B:

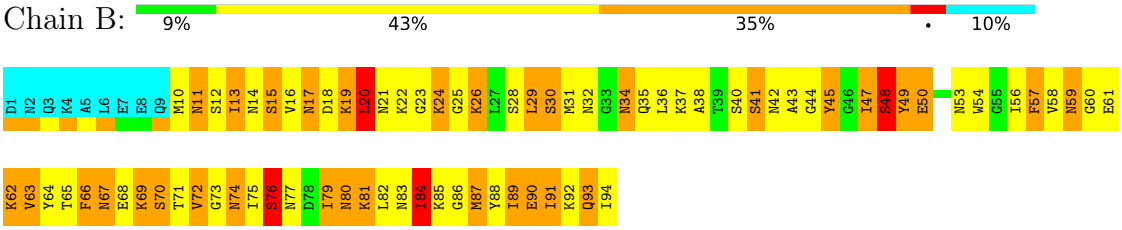
4.2.24 Score per residue for model 24

• Molecule 1: Hemolysin II

Chain A:

• Molecule 1: Hemolysin II

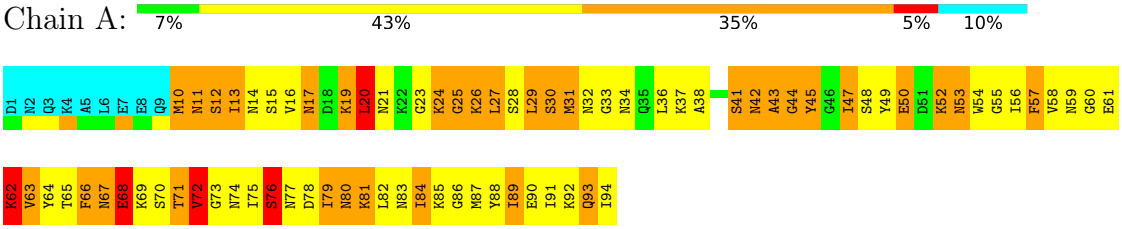
Chain B:



4.2.25 Score per residue for model 25

• Molecule 1: Hemolysin II

Chain A:



• Molecule 1: Hemolysin II

Chain B:

5 Refinement protocol and experimental data overview

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

Of the 100 calculated structures, 25 were deposited, based on the following criterion: *structures with the least restraint violations*.

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

Software name	Classification	Version
TALOS	geometry optimization	TALOS-N
X-PLOR NIH	structure calculation	
X-PLOR NIH	refinement	

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	424
Number of shifts mapped to atoms	424
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	17%

6 Model quality (i)

6.1 Standard geometry (i)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#Z>5	RMSZ	#Z>5
1	A	0.75±0.02	0±0/666 (0.0± 0.0%)	1.16±0.02	1±1/889 (0.1± 0.1%)
1	B	0.75±0.02	0±0/666 (0.0± 0.0%)	1.16±0.03	1±1/889 (0.1± 0.1%)
All	All	0.75	0/33300 (0.0%)	1.16	59/44450 (0.1%)

There are no bond-length outliers.

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

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})	Models	
								Worst	Total
1	A	57	PHE	CA-CB-CG	-6.84	106.96	113.80	6	20
1	B	57	PHE	CA-CB-CG	-6.75	107.05	113.80	6	20
1	B	90	GLU	N-CA-C	6.17	116.00	107.73	9	5
1	A	90	GLU	N-CA-C	6.09	115.89	107.73	9	5
1	A	45	TYR	N-CA-C	5.90	115.89	108.45	6	1
1	B	45	TYR	N-CA-C	5.90	115.88	108.45	6	1
1	A	40	SER	N-CA-C	5.53	115.54	108.24	9	1
1	B	40	SER	N-CA-C	5.49	115.49	108.24	9	1
1	A	33	GLY	N-CA-C	-5.25	108.65	115.59	20	1
1	A	45	TYR	CA-CB-CG	-5.20	104.54	113.90	17	1
1	B	45	TYR	CA-CB-CG	-5.18	104.57	113.90	17	1
1	B	21	ASN	CB-CA-C	-5.18	109.61	117.07	10	1
1	B	33	GLY	N-CA-C	-5.18	108.75	115.59	20	1

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts (i)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in each chain respectively. The H(added) column lists the number of hydrogen

atoms added and optimized by MolProbity. The Clashes column lists the number of clashes averaged over the ensemble.

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	659	663	663	206±16
1	B	659	663	663	207±16
All	All	32950	33150	33150	9908

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 150.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:17:ASN:HD21	1:A:29:LEU:HD23	1.11	1.02	10	17
1:A:29:LEU:HD22	1:A:29:LEU:H	1.11	1.04	10	25
1:B:29:LEU:H	1:B:29:LEU:HD22	1.09	1.07	22	25
1:B:17:ASN:HD21	1:B:29:LEU:HD23	1.08	1.02	10	17
1:B:17:ASN:ND2	1:B:29:LEU:HD23	1.04	1.67	10	20
1:A:17:ASN:ND2	1:A:29:LEU:HD23	1.03	1.67	10	20
1:B:47:ILE:HD12	1:B:47:ILE:H	0.99	1.12	20	16
1:B:89:ILE:HD12	1:B:89:ILE:H	0.99	1.14	18	25
1:B:82:LEU:HD13	1:B:82:LEU:C	0.98	1.83	23	1
1:A:47:ILE:HD12	1:A:47:ILE:H	0.98	1.12	20	15
1:A:89:ILE:H	1:A:89:ILE:HD12	0.97	1.14	18	24
1:B:13:ILE:HD13	1:B:13:ILE:N	0.96	1.73	1	12
1:A:13:ILE:HD13	1:A:13:ILE:N	0.96	1.73	1	12
1:A:82:LEU:HD13	1:A:82:LEU:C	0.96	1.83	23	1
1:B:56:ILE:O	1:B:63:VAL:HG12	0.95	1.62	15	9
1:B:84:ILE:HG22	1:B:85:LYS:H	0.95	1.20	11	13
1:B:90:GLU:O	1:B:91:ILE:HD13	0.94	1.62	3	11
1:A:82:LEU:O	1:A:82:LEU:HD22	0.94	1.61	23	1
1:B:29:LEU:N	1:B:29:LEU:HD13	0.94	1.78	11	25
1:A:29:LEU:HD13	1:A:29:LEU:N	0.94	1.78	11	7
1:B:70:SER:OG	1:B:75:ILE:HD11	0.94	1.62	11	25
1:A:70:SER:OG	1:A:75:ILE:HD11	0.93	1.62	11	25
1:B:82:LEU:HD22	1:B:82:LEU:O	0.93	1.61	23	1
1:A:56:ILE:HG23	1:B:91:ILE:HD12	0.93	1.37	10	13
1:A:91:ILE:HD12	1:B:56:ILE:HG23	0.93	1.38	10	13
1:A:84:ILE:HG22	1:A:85:LYS:H	0.93	1.23	5	13
1:A:90:GLU:O	1:A:91:ILE:HD13	0.93	1.62	3	11
1:A:56:ILE:O	1:A:63:VAL:HG12	0.93	1.62	15	10
1:B:47:ILE:HD12	1:B:47:ILE:N	0.93	1.78	20	10
1:B:24:LYS:HZ2	1:B:48:SER:CB	0.93	1.77	14	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:58:VAL:HG22	1:A:59:ASN:OD1	0.92	1.64	21	4
1:A:47:ILE:N	1:A:47:ILE:HD12	0.92	1.79	3	3
1:A:47:ILE:HD12	1:A:47:ILE:N	0.92	1.78	20	7
1:B:12:SER:O	1:B:16:VAL:HG23	0.92	1.65	18	9
1:A:29:LEU:HD22	1:A:29:LEU:N	0.92	1.80	18	23
1:B:29:LEU:HD22	1:B:29:LEU:N	0.91	1.80	18	22
1:A:12:SER:O	1:A:16:VAL:HG23	0.91	1.64	18	9
1:B:89:ILE:HD12	1:B:89:ILE:N	0.90	1.81	18	25
1:A:64:TYR:CZ	1:A:66:PHE:CD1	0.90	2.60	21	13
1:B:64:TYR:CZ	1:B:66:PHE:CD1	0.90	2.60	21	13
1:A:47:ILE:O	1:A:49:TYR:N	0.90	2.05	8	12
1:B:47:ILE:O	1:B:49:TYR:N	0.90	2.05	8	12
1:A:89:ILE:HD12	1:A:89:ILE:N	0.90	1.81	18	24
1:B:58:VAL:HG22	1:B:59:ASN:OD1	0.90	1.64	21	4
1:B:10:MET:HE2	1:B:86:GLY:O	0.90	1.67	9	1
1:A:47:ILE:HD13	1:A:47:ILE:N	0.89	1.83	4	2
1:B:10:MET:O	1:B:12:SER:N	0.89	2.05	7	20
1:B:47:ILE:N	1:B:47:ILE:HD13	0.89	1.83	4	5
1:A:10:MET:HE2	1:A:86:GLY:O	0.89	1.67	9	1
1:A:10:MET:O	1:A:12:SER:N	0.88	2.05	7	20
1:B:44:GLY:O	1:B:47:ILE:HD11	0.88	1.69	9	7
1:A:44:GLY:O	1:A:47:ILE:HD11	0.88	1.69	9	7
1:B:93:GLN:CD	1:B:93:GLN:H	0.88	1.77	20	16
1:B:64:TYR:CE1	1:B:66:PHE:CE1	0.88	2.62	18	3
1:A:40:SER:OG	1:A:43:ALA:HB2	0.88	1.69	6	2
1:B:64:TYR:CE1	1:B:66:PHE:CE2	0.88	2.62	10	6
1:A:64:TYR:CE1	1:A:66:PHE:CE2	0.88	2.62	10	6
1:A:93:GLN:H	1:A:93:GLN:CD	0.87	1.77	20	21
1:A:64:TYR:CE1	1:A:66:PHE:CE1	0.87	2.62	18	3
1:B:40:SER:OG	1:B:43:ALA:HB2	0.87	1.69	6	2
1:A:24:LYS:HZ2	1:A:48:SER:CB	0.87	1.83	14	1
1:A:56:ILE:HG23	1:B:91:ILE:HG23	0.87	1.46	23	15
1:A:36:LEU:HD23	1:A:80:ASN:HD21	0.86	1.28	13	2
1:B:64:TYR:CZ	1:B:66:PHE:CD2	0.86	2.63	10	12
1:A:64:TYR:CE2	1:A:66:PHE:CE2	0.86	2.63	9	6
1:B:64:TYR:CE2	1:B:66:PHE:CE2	0.86	2.63	9	6
1:A:64:TYR:CZ	1:A:66:PHE:CD2	0.86	2.63	10	12
1:B:36:LEU:HD23	1:B:80:ASN:HD21	0.86	1.28	13	2
1:A:91:ILE:HG23	1:B:56:ILE:HG23	0.86	1.45	23	15
1:B:56:ILE:HG22	1:B:63:VAL:CG1	0.83	2.03	18	16
1:A:45:TYR:O	1:A:47:ILE:N	0.83	2.11	18	6

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:45:TYR:O	1:B:47:ILE:N	0.83	2.11	18	6
1:B:41:SER:O	1:B:43:ALA:N	0.83	2.12	4	10
1:B:56:ILE:HD11	1:B:66:PHE:CE1	0.83	2.09	1	13
1:B:42:ASN:ND2	1:B:45:TYR:CD2	0.83	2.47	17	1
1:A:56:ILE:HG22	1:A:63:VAL:CG1	0.83	2.03	18	16
1:A:42:ASN:ND2	1:A:45:TYR:CD2	0.82	2.47	17	1
1:B:36:LEU:HD12	1:B:37:LYS:H	0.82	1.34	15	18
1:A:56:ILE:HD12	1:A:56:ILE:N	0.82	1.89	11	20
1:A:64:TYR:CE2	1:A:66:PHE:CE1	0.82	2.67	19	10
1:B:64:TYR:CE2	1:B:66:PHE:CE1	0.82	2.67	19	10
1:B:56:ILE:N	1:B:56:ILE:HD12	0.82	1.89	11	19
1:A:24:LYS:NZ	1:A:49:TYR:CE2	0.82	2.48	14	3
1:A:19:LYS:HZ2	1:B:93:GLN:HE21	0.82	1.15	18	1
1:A:56:ILE:HG22	1:A:63:VAL:HG13	0.82	1.52	13	5
1:A:56:ILE:HD11	1:A:66:PHE:CE1	0.82	2.09	1	13
1:A:41:SER:O	1:A:43:ALA:N	0.82	2.12	4	10
1:A:22:LYS:NZ	1:A:54:TRP:CD1	0.82	2.48	23	1
1:A:47:ILE:H	1:A:47:ILE:CD1	0.82	1.81	20	11
1:B:28:SER:C	1:B:29:LEU:HD13	0.81	2.00	11	1
1:B:24:LYS:NZ	1:B:49:TYR:CE2	0.81	2.48	14	3
1:A:36:LEU:HD12	1:A:37:LYS:H	0.81	1.35	15	18
1:A:93:GLN:H	1:A:93:GLN:NE2	0.81	1.73	12	24
1:A:42:ASN:ND2	1:A:45:TYR:CD1	0.81	2.48	12	1
1:B:42:ASN:ND2	1:B:45:TYR:CD1	0.81	2.49	12	1
1:B:56:ILE:HG22	1:B:63:VAL:HG13	0.81	1.52	13	5
1:B:84:ILE:HG22	1:B:85:LYS:N	0.81	1.91	14	16
1:B:22:LYS:NZ	1:B:54:TRP:CD1	0.81	2.48	23	1
1:A:56:ILE:HD11	1:A:66:PHE:CE2	0.80	2.11	2	11
1:A:45:TYR:CD1	1:A:47:ILE:HG23	0.80	2.11	21	1
1:B:29:LEU:H	1:B:29:LEU:CD2	0.80	1.86	10	22
1:B:56:ILE:HD11	1:B:66:PHE:CE2	0.80	2.11	2	11
1:A:28:SER:C	1:A:29:LEU:HD13	0.80	2.00	11	1
1:B:45:TYR:CD1	1:B:47:ILE:HG23	0.80	2.11	21	1
1:A:82:LEU:HD12	1:A:84:ILE:HD12	0.80	1.53	23	1
1:B:84:ILE:HD12	1:B:84:ILE:H	0.80	1.37	6	7
1:A:29:LEU:H	1:A:29:LEU:CD2	0.80	1.90	2	22
1:A:56:ILE:HG23	1:B:91:ILE:CG2	0.80	2.06	20	9
1:B:82:LEU:HD12	1:B:84:ILE:HD12	0.80	1.53	23	1
1:B:93:GLN:H	1:B:93:GLN:NE2	0.80	1.73	12	24
1:A:84:ILE:HG22	1:A:85:LYS:N	0.79	1.91	6	16
1:B:42:ASN:O	1:B:45:TYR:N	0.79	2.15	18	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:57:PHE:CE1	1:A:62:LYS:NZ	0.79	2.51	3	1
1:B:64:TYR:OH	1:B:66:PHE:CD2	0.79	2.36	1	10
1:B:77:ASN:O	1:B:80:ASN:ND2	0.79	2.16	16	9
1:A:79:ILE:O	1:A:81:LYS:N	0.79	2.16	8	24
1:A:91:ILE:CG2	1:B:56:ILE:HG23	0.79	2.07	20	9
1:A:42:ASN:O	1:A:45:TYR:N	0.78	2.15	18	3
1:A:87:MET:SD	1:B:87:MET:SD	0.78	2.82	10	10
1:B:52:LYS:O	1:B:67:ASN:ND2	0.78	2.17	17	18
1:A:89:ILE:N	1:A:89:ILE:HD12	0.78	1.93	13	1
1:A:93:GLN:HE21	1:B:19:LYS:HZ1	0.78	1.19	18	1
1:A:64:TYR:OH	1:A:66:PHE:CD2	0.78	2.36	1	10
1:B:79:ILE:O	1:B:81:LYS:N	0.78	2.16	8	24
1:A:57:PHE:CZ	1:A:62:LYS:NZ	0.78	2.51	3	2
1:A:77:ASN:O	1:A:80:ASN:ND2	0.78	2.16	16	9
1:A:84:ILE:HD12	1:A:84:ILE:H	0.78	1.37	6	7
1:B:57:PHE:CE1	1:B:62:LYS:NZ	0.78	2.51	3	1
1:B:24:LYS:NZ	1:B:48:SER:CB	0.78	2.47	14	1
1:B:90:GLU:C	1:B:91:ILE:HD13	0.78	2.04	3	16
1:B:47:ILE:HG12	1:B:48:SER:N	0.78	1.93	21	1
1:A:52:LYS:O	1:A:67:ASN:ND2	0.78	2.17	17	18
1:B:10:MET:SD	1:B:11:ASN:N	0.78	2.57	11	2
1:B:48:SER:OG	1:B:49:TYR:N	0.78	2.16	10	4
1:A:24:LYS:NZ	1:A:48:SER:CB	0.78	2.47	14	1
1:A:90:GLU:C	1:A:91:ILE:HD13	0.77	2.04	3	15
1:B:57:PHE:CZ	1:B:62:LYS:NZ	0.77	2.51	3	2
1:A:77:ASN:CG	1:A:78:ASP:N	0.77	2.42	13	9
1:A:10:MET:SD	1:A:11:ASN:N	0.77	2.57	11	2
1:A:17:ASN:O	1:A:29:LEU:HD23	0.77	1.79	13	1
1:A:64:TYR:CZ	1:A:79:ILE:HG13	0.77	2.14	23	25
1:B:33:GLY:O	1:B:34:ASN:ND2	0.77	2.17	20	1
1:B:77:ASN:CG	1:B:78:ASP:N	0.77	2.43	21	9
1:A:80:ASN:HD22	1:A:81:LYS:N	0.77	1.78	16	4
1:A:33:GLY:O	1:A:34:ASN:ND2	0.77	2.17	20	1
1:A:36:LEU:HD12	1:A:37:LYS:N	0.77	1.94	15	16
1:B:56:ILE:N	1:B:62:LYS:NZ	0.77	2.33	3	1
1:A:89:ILE:HD12	1:A:89:ILE:H	0.77	1.40	13	1
1:A:59:ASN:C	1:A:59:ASN:ND2	0.77	2.43	23	6
1:B:17:ASN:O	1:B:29:LEU:HD23	0.77	1.79	13	1
1:A:47:ILE:HG12	1:A:48:SER:N	0.77	1.93	21	1
1:A:56:ILE:N	1:A:62:LYS:NZ	0.77	2.33	3	1
1:A:69:LYS:O	1:A:71:THR:HG23	0.77	1.80	5	5

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:48:SER:OG	1:A:49:TYR:N	0.77	2.16	10	4
1:A:49:TYR:N	1:A:68:GLU:OE2	0.76	2.19	21	1
1:B:64:TYR:CZ	1:B:79:ILE:HG13	0.76	2.14	23	25
1:B:49:TYR:N	1:B:68:GLU:OE2	0.76	2.18	21	1
1:A:64:TYR:CD1	1:A:65:THR:N	0.76	2.53	14	16
1:A:26:LYS:N	1:A:26:LYS:CD	0.76	2.49	1	5
1:B:26:LYS:N	1:B:26:LYS:CD	0.76	2.49	1	5
1:B:64:TYR:CD1	1:B:65:THR:N	0.76	2.54	11	16
1:B:80:ASN:HD22	1:B:81:LYS:N	0.76	1.78	16	4
1:B:36:LEU:HD12	1:B:37:LYS:N	0.76	1.94	15	16
1:B:58:VAL:O	1:B:61:GLU:N	0.76	2.18	14	24
1:B:59:ASN:C	1:B:59:ASN:ND2	0.76	2.43	22	6
1:A:10:MET:SD	1:A:87:MET:SD	0.75	2.84	17	1
1:A:64:TYR:CE1	1:A:66:PHE:CD1	0.75	2.74	18	3
1:B:90:GLU:CD	1:B:90:GLU:N	0.75	2.43	17	2
1:B:64:TYR:CE1	1:B:66:PHE:CD1	0.75	2.74	18	3
1:B:82:LEU:C	1:B:82:LEU:CD1	0.75	2.59	23	9
1:A:47:ILE:CD1	1:A:48:SER:H	0.75	1.94	10	2
1:A:75:ILE:O	1:A:77:ASN:N	0.75	2.20	18	25
1:B:47:ILE:N	1:B:47:ILE:CD1	0.75	2.50	13	10
1:B:13:ILE:HD13	1:B:13:ILE:H	0.75	1.40	1	1
1:B:17:ASN:ND2	1:B:29:LEU:CD2	0.75	2.49	18	20
1:A:64:TYR:OH	1:A:66:PHE:CD1	0.75	2.40	2	9
1:B:69:LYS:O	1:B:71:THR:HG23	0.75	1.80	5	5
1:A:56:ILE:HG23	1:B:91:ILE:HG21	0.75	1.58	18	3
1:B:64:TYR:OH	1:B:66:PHE:CD1	0.75	2.40	2	9
1:B:47:ILE:CD1	1:B:48:SER:H	0.75	1.94	10	2
1:A:54:TRP:CD1	1:B:94:ILE:HG23	0.74	2.17	15	3
1:B:88:TYR:CZ	1:B:90:GLU:CD	0.74	2.65	13	2
1:A:90:GLU:N	1:A:90:GLU:CD	0.74	2.43	17	2
1:B:10:MET:SD	1:B:87:MET:SD	0.74	2.84	17	1
1:B:82:LEU:C	1:B:82:LEU:HD12	0.74	2.08	17	12
1:A:32:ASN:O	1:A:34:ASN:N	0.74	2.20	22	9
1:B:10:MET:HE2	1:B:87:MET:HE1	0.74	1.59	11	1
1:B:75:ILE:O	1:B:77:ASN:N	0.74	2.20	18	25
1:A:91:ILE:HG21	1:B:56:ILE:HG23	0.74	1.60	18	3
1:B:22:LYS:HZ2	1:B:54:TRP:CD1	0.74	1.99	23	1
1:A:47:ILE:N	1:A:47:ILE:CD1	0.74	2.50	13	6
1:B:45:TYR:CD2	1:B:71:THR:OG1	0.74	2.41	5	1
1:A:88:TYR:CZ	1:A:90:GLU:CD	0.74	2.65	13	2
1:A:17:ASN:ND2	1:A:29:LEU:CD2	0.74	2.49	18	20

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:32:ASN:O	1:B:34:ASN:N	0.74	2.20	22	9
1:B:24:LYS:NZ	1:B:49:TYR:CE1	0.74	2.55	6	2
1:B:26:LYS:H	1:B:26:LYS:CD	0.74	1.96	7	4
1:B:26:LYS:O	1:B:43:ALA:HB2	0.73	1.83	8	7
1:B:24:LYS:NZ	1:B:49:TYR:CZ	0.73	2.55	14	3
1:A:56:ILE:C	1:A:57:PHE:CD2	0.73	2.66	15	9
1:B:53:ASN:ND2	1:B:53:ASN:H	0.73	1.81	10	1
1:A:82:LEU:C	1:A:82:LEU:HD12	0.73	2.08	17	12
1:A:21:ASN:ND2	1:A:22:LYS:H	0.73	1.81	22	4
1:A:45:TYR:CD2	1:A:71:THR:OG1	0.73	2.41	5	1
1:A:61:GLU:O	1:A:62:LYS:O	0.73	2.06	14	25
1:A:24:LYS:NZ	1:A:49:TYR:CE1	0.73	2.55	6	2
1:A:48:SER:O	1:A:49:TYR:CD2	0.73	2.41	21	4
1:B:21:ASN:CG	1:B:21:ASN:O	0.73	2.32	4	1
1:A:24:LYS:NZ	1:A:49:TYR:CZ	0.73	2.55	14	3
1:B:56:ILE:C	1:B:57:PHE:CD2	0.73	2.66	15	8
1:B:64:TYR:CE1	1:B:66:PHE:CD2	0.73	2.76	10	1
1:A:22:LYS:HZ2	1:A:54:TRP:CD1	0.73	1.99	23	1
1:A:13:ILE:HD13	1:A:13:ILE:H	0.73	1.40	1	1
1:B:61:GLU:O	1:B:62:LYS:O	0.73	2.07	14	25
1:A:22:LYS:O	1:A:24:LYS:N	0.73	2.21	18	2
1:A:26:LYS:CD	1:A:26:LYS:H	0.73	1.97	7	7
1:B:22:LYS:O	1:B:24:LYS:N	0.73	2.21	18	2
1:A:62:LYS:NZ	1:A:64:TYR:O	0.73	2.22	1	1
1:B:93:GLN:H	1:B:93:GLN:CD	0.73	1.91	18	5
1:A:94:ILE:HG23	1:B:54:TRP:CD1	0.73	2.18	15	2
1:B:48:SER:O	1:B:49:TYR:CD2	0.73	2.41	21	4
1:A:19:LYS:NZ	1:B:93:GLN:HE21	0.73	1.82	18	1
1:B:68:GLU:N	1:B:68:GLU:OE2	0.73	2.22	25	5
1:A:10:MET:HE2	1:A:87:MET:HE1	0.73	1.59	11	1
1:B:88:TYR:CE2	1:B:90:GLU:CD	0.73	2.66	13	2
1:A:82:LEU:C	1:A:82:LEU:CD1	0.73	2.59	23	11
1:A:68:GLU:OE2	1:A:68:GLU:N	0.73	2.22	25	5
1:A:69:LYS:C	1:A:71:THR:H	0.72	1.92	22	20
1:B:69:LYS:C	1:B:71:THR:H	0.72	1.92	22	20
1:A:20:LEU:HD12	1:A:20:LEU:O	0.72	1.84	8	1
1:A:88:TYR:CE2	1:A:90:GLU:CD	0.72	2.67	13	2
1:B:57:PHE:CD1	1:B:57:PHE:N	0.72	2.57	24	14
1:B:69:LYS:O	1:B:71:THR:N	0.72	2.23	11	14
1:A:47:ILE:HG21	1:A:68:GLU:O	0.72	1.84	10	1
1:B:64:TYR:CE2	1:B:66:PHE:CD2	0.72	2.77	9	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:42:ASN:O	1:B:42:ASN:ND2	0.72	2.23	20	6
1:A:49:TYR:CD1	1:A:68:GLU:OE2	0.72	2.43	14	1
1:A:24:LYS:CE	1:A:48:SER:OG	0.72	2.38	24	1
1:A:54:TRP:CE3	1:B:92:LYS:O	0.72	2.42	2	13
1:A:69:LYS:O	1:A:71:THR:N	0.72	2.22	11	14
1:B:67:ASN:CG	1:B:68:GLU:N	0.72	2.46	11	4
1:A:64:TYR:CE2	1:A:66:PHE:CD2	0.72	2.77	9	2
1:B:88:TYR:CD2	1:B:90:GLU:OE1	0.72	2.43	25	2
1:A:70:SER:C	1:A:71:THR:HG22	0.72	2.10	10	4
1:A:26:LYS:O	1:A:43:ALA:HB2	0.72	1.83	8	7
1:A:81:LYS:O	1:A:81:LYS:NZ	0.72	2.23	6	1
1:B:81:LYS:NZ	1:B:81:LYS:O	0.72	2.23	6	1
1:A:88:TYR:CD2	1:A:90:GLU:OE1	0.72	2.43	25	2
1:B:49:TYR:CD1	1:B:68:GLU:OE2	0.72	2.43	14	1
1:B:20:LEU:O	1:B:22:LYS:N	0.72	2.23	23	4
1:B:47:ILE:HG21	1:B:68:GLU:O	0.72	1.84	10	1
1:A:48:SER:O	1:A:49:TYR:CG	0.72	2.43	20	4
1:B:48:SER:OG	1:B:49:TYR:CE1	0.72	2.42	21	1
1:A:41:SER:C	1:A:43:ALA:N	0.72	2.46	4	10
1:B:48:SER:O	1:B:49:TYR:CG	0.72	2.43	20	4
1:A:48:SER:OG	1:A:49:TYR:CE1	0.72	2.42	21	1
1:B:89:ILE:C	1:B:90:GLU:CD	0.72	2.57	25	1
1:B:42:ASN:O	1:B:44:GLY:N	0.72	2.23	25	6
1:B:24:LYS:CE	1:B:48:SER:OG	0.72	2.38	24	1
1:B:21:ASN:ND2	1:B:22:LYS:H	0.72	1.81	22	4
1:A:42:ASN:O	1:A:42:ASN:ND2	0.72	2.23	20	6
1:A:24:LYS:NZ	1:A:49:TYR:CD2	0.72	2.58	14	1
1:A:58:VAL:O	1:A:61:GLU:N	0.71	2.18	14	24
1:B:41:SER:C	1:B:43:ALA:N	0.71	2.47	14	10
1:A:88:TYR:CD1	1:A:90:GLU:OE1	0.71	2.43	13	2
1:A:48:SER:C	1:A:49:TYR:CG	0.71	2.68	21	2
1:A:89:ILE:C	1:A:90:GLU:CD	0.71	2.57	25	1
1:B:62:LYS:NZ	1:B:64:TYR:O	0.71	2.22	1	1
1:B:58:VAL:O	1:B:59:ASN:ND2	0.71	2.23	2	9
1:A:23:GLY:O	1:A:25:GLY:N	0.71	2.23	20	4
1:B:24:LYS:NZ	1:B:49:TYR:CD2	0.71	2.58	14	1
1:A:22:LYS:N	1:A:49:TYR:OH	0.71	2.23	21	1
1:A:47:ILE:O	1:A:49:TYR:CD2	0.71	2.44	24	1
1:B:47:ILE:O	1:B:49:TYR:CD2	0.71	2.44	24	1
1:B:17:ASN:ND2	1:B:29:LEU:HD11	0.71	2.00	11	1
1:A:42:ASN:ND2	1:A:45:TYR:CG	0.71	2.58	12	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:88:TYR:CD1	1:B:90:GLU:OE1	0.71	2.43	13	2
1:A:57:PHE:N	1:A:57:PHE:CD2	0.71	2.59	9	7
1:A:64:TYR:CE1	1:A:66:PHE:CD2	0.71	2.77	10	1
1:B:42:ASN:ND2	1:B:45:TYR:CG	0.71	2.58	12	1
1:B:88:TYR:CE2	1:B:90:GLU:OE1	0.71	2.43	25	2
1:B:34:ASN:CG	1:B:85:LYS:C	0.71	2.58	21	1
1:A:57:PHE:CD1	1:A:57:PHE:N	0.71	2.57	24	15
1:A:64:TYR:OH	1:A:75:ILE:CG2	0.71	2.38	5	25
1:A:92:LYS:O	1:B:54:TRP:CE3	0.71	2.43	2	14
1:B:49:TYR:CB	1:B:52:LYS:HZ1	0.71	1.97	3	1
1:B:17:ASN:ND2	1:B:29:LEU:HD21	0.71	2.01	15	2
1:A:93:GLN:HE21	1:B:19:LYS:NZ	0.71	1.83	18	1
1:B:72:VAL:O	1:B:75:ILE:N	0.71	2.24	24	25
1:A:88:TYR:CE2	1:A:90:GLU:OE1	0.71	2.43	25	2
1:A:67:ASN:CG	1:A:68:GLU:N	0.71	2.46	11	4
1:A:21:ASN:CG	1:A:21:ASN:O	0.71	2.32	4	1
1:A:59:ASN:O	1:A:90:GLU:OE2	0.71	2.09	25	3
1:B:20:LEU:HD12	1:B:20:LEU:O	0.71	1.84	8	1
1:A:64:TYR:CD2	1:A:65:THR:N	0.71	2.59	10	9
1:A:92:LYS:O	1:B:54:TRP:CZ3	0.71	2.44	11	6
1:A:42:ASN:HD22	1:A:42:ASN:N	0.71	1.84	4	4
1:B:36:LEU:CD2	1:B:80:ASN:ND2	0.71	2.53	6	1
1:B:64:TYR:OH	1:B:75:ILE:CG2	0.71	2.38	5	25
1:B:49:TYR:HB3	1:B:52:LYS:HZ1	0.71	1.45	3	1
1:A:13:ILE:HD13	1:A:14:ASN:H	0.71	1.45	4	2
1:B:77:ASN:OD1	1:B:78:ASP:N	0.70	2.24	21	9
1:B:23:GLY:O	1:B:25:GLY:N	0.70	2.24	20	4
1:A:58:VAL:O	1:A:59:ASN:ND2	0.70	2.23	2	9
1:A:80:ASN:N	1:A:80:ASN:HD22	0.70	1.84	5	4
1:B:80:ASN:N	1:B:80:ASN:HD22	0.70	1.84	5	3
1:A:19:LYS:HZ2	1:B:93:GLN:NE2	0.70	1.84	18	1
1:B:22:LYS:N	1:B:49:TYR:OH	0.70	2.23	21	1
1:A:72:VAL:O	1:A:75:ILE:N	0.70	2.24	24	25
1:A:53:ASN:H	1:A:53:ASN:ND2	0.70	1.81	10	1
1:A:17:ASN:ND2	1:A:29:LEU:HD21	0.70	2.01	15	2
1:A:45:TYR:CD2	1:A:47:ILE:HD13	0.70	2.21	13	1
1:B:45:TYR:CD2	1:B:47:ILE:HD13	0.70	2.21	13	1
1:A:34:ASN:CG	1:A:85:LYS:C	0.70	2.58	21	1
1:A:54:TRP:CZ3	1:B:92:LYS:O	0.70	2.44	11	6
1:A:42:ASN:O	1:A:44:GLY:N	0.70	2.23	25	6
1:B:36:LEU:CD2	1:B:80:ASN:HD21	0.70	2.00	13	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:17:ASN:ND2	1:A:29:LEU:HD11	0.70	2.00	11	1
1:B:64:TYR:CD2	1:B:65:THR:N	0.70	2.59	10	9
1:B:45:TYR:CD1	1:B:45:TYR:C	0.70	2.69	19	5
1:B:41:SER:C	1:B:43:ALA:H	0.70	1.94	16	10
1:A:24:LYS:HZ3	1:A:24:LYS:N	0.70	1.85	4	1
1:A:36:LEU:CD2	1:A:80:ASN:HD21	0.70	1.99	13	2
1:A:26:LYS:H	1:A:42:ASN:ND2	0.70	1.85	25	1
1:A:31:MET:SD	1:A:31:MET:N	0.70	2.65	8	5
1:A:20:LEU:O	1:A:22:LYS:N	0.70	2.23	23	4
1:A:45:TYR:CG	1:A:71:THR:HG21	0.70	2.22	5	1
1:B:45:TYR:CG	1:B:47:ILE:HD11	0.70	2.21	20	2
1:B:33:GLY:O	1:B:86:GLY:N	0.70	2.25	20	2
1:A:77:ASN:OD1	1:A:78:ASP:N	0.70	2.25	3	9
1:A:93:GLN:CD	1:A:93:GLN:N	0.70	2.48	1	19
1:B:93:GLN:CD	1:B:93:GLN:N	0.70	2.50	9	18
1:A:43:ALA:O	1:A:45:TYR:CD1	0.70	2.45	5	2
1:B:48:SER:OG	1:B:49:TYR:CD1	0.70	2.43	21	1
1:B:70:SER:C	1:B:71:THR:HG22	0.70	2.09	10	3
1:A:80:ASN:ND2	1:A:81:LYS:N	0.70	2.40	16	4
1:B:43:ALA:O	1:B:45:TYR:CD1	0.70	2.45	5	2
1:B:83:ASN:CG	1:B:83:ASN:O	0.70	2.35	1	12
1:B:42:ASN:N	1:B:42:ASN:HD22	0.70	1.84	4	4
1:A:36:LEU:CD2	1:A:80:ASN:ND2	0.70	2.53	6	1
1:A:45:TYR:CG	1:A:47:ILE:HD11	0.70	2.21	20	2
1:B:43:ALA:O	1:B:45:TYR:CD2	0.70	2.45	15	2
1:A:89:ILE:HG23	1:B:89:ILE:HG23	0.70	1.62	25	20
1:B:45:TYR:CG	1:B:71:THR:HG21	0.70	2.22	5	1
1:B:35:GLN:NE2	1:B:84:ILE:O	0.70	2.25	24	2
1:B:31:MET:SD	1:B:31:MET:N	0.70	2.65	8	4
1:B:82:LEU:CD1	1:B:84:ILE:HG23	0.70	2.17	13	4
1:B:48:SER:C	1:B:49:TYR:CG	0.70	2.69	21	2
1:A:23:GLY:O	1:A:24:LYS:O	0.69	2.09	3	9
1:A:82:LEU:CD1	1:A:84:ILE:HG23	0.69	2.17	13	4
1:B:54:TRP:CD1	1:B:68:GLU:OE2	0.69	2.45	10	1
1:A:43:ALA:O	1:A:45:TYR:CE2	0.69	2.45	18	1
1:A:24:LYS:CD	1:A:24:LYS:H	0.69	2.00	9	5
1:A:83:ASN:CG	1:A:83:ASN:O	0.69	2.35	1	14
1:A:17:ASN:ND2	1:A:17:ASN:C	0.69	2.50	18	14
1:A:41:SER:C	1:A:43:ALA:H	0.69	1.94	16	10
1:A:10:MET:O	1:A:13:ILE:CD1	0.69	2.40	9	5
1:B:33:GLY:C	1:B:34:ASN:ND2	0.69	2.51	21	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:49:TYR:CE2	1:B:68:GLU:OE1	0.69	2.46	8	1
1:B:57:PHE:N	1:B:57:PHE:CD2	0.69	2.59	9	6
1:A:89:ILE:N	1:A:89:ILE:CD1	0.69	2.51	18	21
1:A:80:ASN:ND2	1:A:80:ASN:C	0.69	2.49	21	4
1:B:10:MET:O	1:B:13:ILE:CD1	0.69	2.40	9	5
1:A:49:TYR:CE2	1:A:68:GLU:OE1	0.69	2.46	8	1
1:B:43:ALA:O	1:B:45:TYR:CE2	0.69	2.45	18	1
1:B:23:GLY:O	1:B:24:LYS:O	0.69	2.09	3	9
1:B:27:LEU:HD11	1:B:29:LEU:CD1	0.69	2.18	6	18
1:B:24:LYS:O	1:B:46:GLY:N	0.69	2.25	5	2
1:A:21:ASN:ND2	1:A:27:LEU:O	0.69	2.26	13	2
1:A:35:GLN:NE2	1:A:84:ILE:O	0.69	2.25	7	2
1:A:30:SER:C	1:A:31:MET:SD	0.69	2.76	16	1
1:B:30:SER:C	1:B:31:MET:SD	0.69	2.76	16	1
1:A:89:ILE:CD1	1:B:10:MET:SD	0.69	2.80	25	1
1:B:64:TYR:CD1	1:B:79:ILE:HG21	0.69	2.23	21	6
1:A:24:LYS:O	1:A:46:GLY:N	0.69	2.25	5	2
1:A:27:LEU:HD11	1:A:29:LEU:CD1	0.69	2.18	6	17
1:B:32:ASN:O	1:B:33:GLY:C	0.69	2.36	4	16
1:A:13:ILE:N	1:A:13:ILE:HD12	0.69	2.02	22	10
1:A:54:TRP:CD1	1:A:68:GLU:OE2	0.69	2.45	10	1
1:B:59:ASN:O	1:B:90:GLU:OE2	0.69	2.09	25	3
1:A:43:ALA:O	1:A:45:TYR:CD2	0.69	2.45	15	2
1:B:59:ASN:ND2	1:B:59:ASN:O	0.69	2.26	23	6
1:B:90:GLU:N	1:B:90:GLU:OE2	0.69	2.26	23	1
1:A:59:ASN:ND2	1:A:59:ASN:O	0.69	2.26	23	6
1:A:45:TYR:CD1	1:A:45:TYR:C	0.69	2.69	19	5
1:B:17:ASN:ND2	1:B:17:ASN:C	0.69	2.50	18	13
1:A:14:ASN:O	1:A:16:VAL:N	0.69	2.26	24	5
1:B:14:ASN:O	1:B:16:VAL:N	0.69	2.26	24	5
1:B:43:ALA:C	1:B:45:TYR:H	0.69	1.96	25	14
1:B:13:ILE:HD13	1:B:14:ASN:H	0.69	1.45	4	2
1:B:62:LYS:NZ	1:B:65:THR:OG1	0.69	2.25	13	4
1:A:26:LYS:HE2	1:A:43:ALA:HB3	0.69	1.64	7	3
1:A:83:ASN:ND2	1:A:83:ASN:O	0.69	2.26	8	2
1:A:33:GLY:O	1:A:86:GLY:N	0.69	2.24	20	2
1:A:48:SER:OG	1:A:49:TYR:CD1	0.69	2.43	21	1
1:A:90:GLU:N	1:A:90:GLU:OE2	0.69	2.26	23	1
1:B:82:LEU:HD12	1:B:84:ILE:CD1	0.69	2.18	23	1
1:B:61:GLU:CD	1:B:92:LYS:NZ	0.69	2.50	25	1
1:B:13:ILE:HD12	1:B:13:ILE:N	0.69	2.02	22	11

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:88:TYR:CZ	1:B:90:GLU:OE1	0.69	2.46	25	2
1:A:82:LEU:HD12	1:A:84:ILE:CD1	0.69	2.18	23	1
1:B:89:ILE:N	1:B:89:ILE:CD1	0.69	2.48	25	23
1:B:80:ASN:ND2	1:B:81:LYS:N	0.69	2.39	16	4
1:A:62:LYS:NZ	1:A:65:THR:OG1	0.69	2.25	13	4
1:A:33:GLY:C	1:A:34:ASN:ND2	0.69	2.51	21	2
1:A:88:TYR:CE2	1:A:89:ILE:O	0.69	2.46	20	3
1:A:10:MET:SD	1:B:89:ILE:CD1	0.69	2.81	25	1
1:A:61:GLU:CD	1:A:92:LYS:NZ	0.69	2.50	25	1
1:B:83:ASN:O	1:B:83:ASN:ND2	0.68	2.26	8	9
1:A:21:ASN:CG	1:A:22:LYS:N	0.68	2.51	7	7
1:A:42:ASN:C	1:A:44:GLY:H	0.68	1.96	13	8
1:B:26:LYS:HE2	1:B:43:ALA:HB3	0.68	1.64	7	3
1:A:88:TYR:CG	1:A:90:GLU:OE1	0.68	2.46	25	2
1:A:56:ILE:O	1:A:62:LYS:NZ	0.68	2.21	1	2
1:A:26:LYS:CD	1:A:26:LYS:N	0.68	2.56	7	4
1:B:21:ASN:CG	1:B:22:LYS:N	0.68	2.51	7	7
1:B:88:TYR:CZ	1:B:90:GLU:CG	0.68	2.76	13	6
1:A:47:ILE:CG1	1:A:48:SER:N	0.68	2.55	21	1
1:B:26:LYS:H	1:B:42:ASN:ND2	0.68	1.85	25	1
1:A:64:TYR:CD1	1:A:79:ILE:HG21	0.68	2.23	21	6
1:B:70:SER:CB	1:B:75:ILE:HD11	0.68	2.19	18	24
1:A:12:SER:O	1:A:14:ASN:N	0.68	2.27	5	4
1:B:24:LYS:CD	1:B:24:LYS:H	0.68	2.00	9	4
1:B:42:ASN:C	1:B:44:GLY:H	0.68	1.96	13	8
1:A:10:MET:HE3	1:A:87:MET:HE3	0.68	1.65	13	1
1:A:32:ASN:O	1:A:33:GLY:C	0.68	2.36	4	16
1:A:64:TYR:HH	1:A:66:PHE:HD2	0.68	1.23	1	6
1:A:21:ASN:OD1	1:A:22:LYS:N	0.68	2.27	8	2
1:B:21:ASN:ND2	1:B:27:LEU:O	0.68	2.26	13	2
1:B:10:MET:HE3	1:B:87:MET:HE3	0.68	1.65	13	1
1:A:35:GLN:HE21	1:A:83:ASN:ND2	0.68	1.86	15	1
1:B:88:TYR:CE2	1:B:89:ILE:O	0.68	2.46	20	3
1:A:74:ASN:O	1:A:77:ASN:ND2	0.68	2.27	3	9
1:A:53:ASN:OD1	1:A:53:ASN:N	0.68	2.27	6	7
1:A:43:ALA:C	1:A:45:TYR:H	0.68	1.96	25	14
1:B:88:TYR:CG	1:B:90:GLU:OE1	0.68	2.46	25	2
1:A:13:ILE:N	1:A:13:ILE:CD1	0.68	2.46	1	9
1:A:58:VAL:O	1:A:60:GLY:N	0.68	2.26	4	19
1:B:66:PHE:CD2	1:B:72:VAL:HG12	0.68	2.24	18	14
1:A:84:ILE:CG2	1:A:85:LYS:H	0.68	2.02	8	14

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:80:ASN:ND2	1:B:80:ASN:C	0.68	2.50	16	4
1:A:10:MET:SD	1:A:10:MET:C	0.68	2.76	11	1
1:A:90:GLU:N	1:A:90:GLU:OE1	0.68	2.26	17	1
1:A:70:SER:CB	1:A:75:ILE:HD11	0.68	2.18	18	24
1:A:75:ILE:C	1:A:77:ASN:N	0.68	2.50	18	25
1:B:51:ASP:OD1	1:B:67:ASN:ND2	0.68	2.27	2	3
1:B:21:ASN:OD1	1:B:22:LYS:N	0.68	2.27	5	2
1:A:88:TYR:CZ	1:A:90:GLU:CG	0.68	2.76	13	6
1:A:68:GLU:N	1:A:68:GLU:OE1	0.68	2.27	7	1
1:B:53:ASN:OD1	1:B:53:ASN:N	0.68	2.27	6	7
1:A:57:PHE:CE2	1:A:62:LYS:CD	0.68	2.77	15	7
1:A:88:TYR:CZ	1:A:90:GLU:OE1	0.68	2.46	25	2
1:B:90:GLU:N	1:B:90:GLU:OE1	0.68	2.26	17	1
1:B:47:ILE:CG1	1:B:48:SER:N	0.68	2.55	21	1
1:B:58:VAL:O	1:B:60:GLY:N	0.68	2.26	6	19
1:B:83:ASN:O	1:B:84:ILE:O	0.68	2.12	23	18
1:A:56:ILE:N	1:A:56:ILE:HD12	0.68	2.03	3	1
1:A:24:LYS:NZ	1:A:24:LYS:H	0.68	1.87	4	1
1:B:68:GLU:OE1	1:B:68:GLU:N	0.68	2.26	7	1
1:A:45:TYR:CD1	1:A:45:TYR:O	0.68	2.47	19	2
1:B:45:TYR:CD1	1:B:45:TYR:O	0.68	2.47	19	2
1:A:66:PHE:CD2	1:A:72:VAL:HG12	0.67	2.24	18	14
1:B:74:ASN:O	1:B:77:ASN:ND2	0.67	2.27	3	9
1:B:84:ILE:CG2	1:B:85:LYS:H	0.67	2.01	14	15
1:A:51:ASP:OD1	1:A:67:ASN:ND2	0.67	2.27	2	3
1:B:24:LYS:H	1:B:24:LYS:NZ	0.67	1.87	4	1
1:B:10:MET:SD	1:B:10:MET:C	0.67	2.77	11	1
1:A:17:ASN:ND2	1:A:29:LEU:O	0.67	2.28	13	1
1:B:16:VAL:O	1:B:19:LYS:N	0.67	2.27	24	22
1:B:72:VAL:CG2	1:B:73:GLY:N	0.67	2.58	1	25
1:B:35:GLN:HE21	1:B:83:ASN:ND2	0.67	1.86	15	1
1:B:12:SER:O	1:B:14:ASN:N	0.67	2.26	5	4
1:B:26:LYS:CD	1:B:26:LYS:N	0.67	2.56	7	3
1:B:57:PHE:CE2	1:B:62:LYS:CD	0.67	2.77	15	7
1:B:58:VAL:N	1:B:61:GLU:O	0.67	2.28	24	24
1:A:45:TYR:CD1	1:A:45:TYR:N	0.67	2.61	5	2
1:A:64:TYR:C	1:A:65:THR:HG1	0.67	1.97	13	1
1:B:46:GLY:C	1:B:47:ILE:HD13	0.67	2.15	4	2
1:A:89:ILE:CD1	1:B:10:MET:HE1	0.67	2.20	13	1
1:A:16:VAL:O	1:A:19:LYS:N	0.67	2.27	24	22
1:A:46:GLY:C	1:A:47:ILE:HD13	0.67	2.15	4	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:21:ASN:OD1	1:A:21:ASN:N	0.67	2.28	19	1
1:A:23:GLY:O	1:A:24:LYS:C	0.67	2.38	9	11
1:A:93:GLN:O	1:A:93:GLN:CD	0.67	2.38	19	8
1:B:89:ILE:O	1:B:90:GLU:CD	0.67	2.38	5	4
1:A:69:LYS:C	1:A:71:THR:N	0.66	2.53	11	21
1:A:83:ASN:O	1:A:84:ILE:O	0.66	2.12	23	18
1:A:93:GLN:O	1:A:94:ILE:C	0.66	2.39	10	25
1:B:75:ILE:C	1:B:77:ASN:N	0.66	2.50	18	25
1:A:11:ASN:O	1:A:13:ILE:HD12	0.66	1.90	4	2
1:B:17:ASN:ND2	1:B:29:LEU:O	0.66	2.28	13	1
1:A:72:VAL:CG2	1:A:73:GLY:N	0.66	2.58	1	25
1:B:13:ILE:O	1:B:31:MET:HE1	0.66	1.90	10	1
1:B:21:ASN:OD1	1:B:21:ASN:N	0.66	2.28	19	1
1:B:17:ASN:C	1:B:17:ASN:HD22	0.66	1.98	6	7
1:A:89:ILE:HD13	1:B:87:MET:HG2	0.66	1.68	20	1
1:A:82:LEU:O	1:A:82:LEU:CD2	0.66	2.43	23	1
1:A:26:LYS:O	1:A:40:SER:OG	0.66	2.12	6	6
1:B:93:GLN:O	1:B:94:ILE:C	0.66	2.39	5	25
1:B:23:GLY:O	1:B:24:LYS:C	0.66	2.38	9	11
1:B:93:GLN:CD	1:B:93:GLN:O	0.66	2.38	19	17
1:A:24:LYS:HZ3	1:A:24:LYS:H	0.66	1.31	4	1
1:A:32:ASN:ND2	1:A:35:GLN:OE1	0.66	2.29	17	2
1:A:84:ILE:CG2	1:A:85:LYS:N	0.66	2.58	23	14
1:B:47:ILE:O	1:B:48:SER:C	0.66	2.38	5	10
1:A:47:ILE:O	1:A:48:SER:CB	0.66	2.43	13	3
1:B:47:ILE:O	1:B:48:SER:CB	0.66	2.42	13	3
1:B:32:ASN:ND2	1:B:35:GLN:OE1	0.66	2.29	17	2
1:A:20:LEU:O	1:A:24:LYS:NZ	0.66	2.29	19	2
1:B:84:ILE:CG2	1:B:85:LYS:N	0.66	2.58	12	15
1:A:47:ILE:O	1:A:48:SER:C	0.66	2.38	5	10
1:A:87:MET:HG2	1:B:89:ILE:HD13	0.66	1.68	20	1
1:B:81:LYS:C	1:B:81:LYS:CD	0.66	2.69	2	7
1:A:30:SER:O	1:A:36:LEU:HD12	0.66	1.91	3	1
1:B:30:SER:O	1:B:36:LEU:HD12	0.66	1.91	3	1
1:A:37:LYS:HB2	1:A:37:LYS:HZ2	0.66	1.50	18	2
1:A:24:LYS:N	1:A:24:LYS:CD	0.66	2.59	2	6
1:A:81:LYS:C	1:A:81:LYS:CD	0.66	2.69	2	7
1:A:81:LYS:O	1:A:81:LYS:CD	0.66	2.44	25	6
1:B:34:ASN:OD1	1:B:86:GLY:CA	0.66	2.44	7	1
1:B:59:ASN:O	1:B:90:GLU:CD	0.66	2.39	13	3
1:A:23:GLY:O	1:A:48:SER:N	0.66	2.29	24	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:26:LYS:HD3	1:A:26:LYS:N	0.66	2.06	24	2
1:B:57:PHE:CD2	1:B:57:PHE:N	0.66	2.60	23	4
1:A:13:ILE:O	1:A:31:MET:HE1	0.66	1.90	10	1
1:A:57:PHE:CD2	1:A:57:PHE:N	0.66	2.60	23	3
1:B:26:LYS:CD	1:B:26:LYS:H	0.66	2.02	1	4
1:B:69:LYS:C	1:B:71:THR:N	0.66	2.53	22	21
1:A:14:ASN:O	1:A:17:ASN:N	0.66	2.29	3	6
1:B:11:ASN:O	1:B:13:ILE:HD12	0.66	1.91	4	2
1:B:81:LYS:CD	1:B:81:LYS:O	0.66	2.44	25	10
1:B:82:LEU:O	1:B:82:LEU:CD2	0.66	2.43	23	1
1:A:58:VAL:C	1:A:60:GLY:N	0.65	2.54	4	22
1:A:79:ILE:O	1:A:82:LEU:CD1	0.65	2.45	10	5
1:A:56:ILE:HD12	1:A:56:ILE:H	0.65	1.50	12	13
1:B:88:TYR:CE1	1:B:90:GLU:OE1	0.65	2.49	25	2
1:A:89:ILE:O	1:A:90:GLU:CD	0.65	2.38	5	4
1:B:79:ILE:O	1:B:82:LEU:CD1	0.65	2.45	18	5
1:A:88:TYR:CE1	1:A:90:GLU:OE1	0.65	2.49	25	2
1:B:20:LEU:O	1:B:24:LYS:NZ	0.65	2.29	19	2
1:B:47:ILE:H	1:B:47:ILE:CD1	0.65	2.03	22	13
1:B:56:ILE:O	1:B:62:LYS:NZ	0.65	2.21	1	2
1:B:14:ASN:O	1:B:17:ASN:N	0.65	2.29	3	6
1:B:93:GLN:O	1:B:93:GLN:CD	0.65	2.39	5	4
1:A:42:ASN:O	1:A:42:ASN:CG	0.65	2.40	8	5
1:A:51:ASP:OD2	1:A:69:LYS:NZ	0.65	2.29	11	1
1:B:10:MET:SD	1:B:86:GLY:O	0.65	2.55	15	1
1:B:24:LYS:N	1:B:24:LYS:CD	0.65	2.59	2	5
1:B:64:TYR:CD2	1:B:79:ILE:HG21	0.65	2.27	19	11
1:B:48:SER:O	1:B:49:TYR:C	0.65	2.39	11	1
1:B:51:ASP:OD2	1:B:69:LYS:NZ	0.65	2.29	11	1
1:A:93:GLN:NE2	1:B:19:LYS:HZ1	0.65	1.89	18	1
1:B:19:LYS:O	1:B:21:ASN:N	0.65	2.30	5	13
1:A:43:ALA:O	1:A:45:TYR:N	0.65	2.30	13	10
1:A:34:ASN:OD1	1:A:86:GLY:CA	0.65	2.44	7	1
1:B:13:ILE:N	1:B:13:ILE:CD1	0.65	2.46	1	11
1:B:56:ILE:HD12	1:B:56:ILE:H	0.65	1.50	12	12
1:A:76:SER:O	1:A:80:ASN:ND2	0.65	2.30	5	2
1:A:10:MET:HE1	1:B:89:ILE:CD1	0.65	2.20	13	1
1:B:34:ASN:O	1:B:84:ILE:O	0.65	2.15	14	13
1:B:10:MET:O	1:B:11:ASN:CB	0.65	2.45	8	3
1:B:26:LYS:HD3	1:B:26:LYS:N	0.65	2.06	24	2
1:B:76:SER:O	1:B:80:ASN:ND2	0.65	2.30	5	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:23:GLY:O	1:B:48:SER:N	0.65	2.29	24	1
1:B:47:ILE:HG23	1:B:72:VAL:HG13	0.65	1.68	25	1
1:A:72:VAL:O	1:A:76:SER:N	0.65	2.30	10	25
1:B:58:VAL:C	1:B:60:GLY:N	0.65	2.54	4	23
1:A:66:PHE:CD1	1:A:72:VAL:HG12	0.65	2.27	14	11
1:B:72:VAL:HG23	1:B:73:GLY:N	0.64	2.07	24	22
1:A:12:SER:O	1:A:16:VAL:CG2	0.64	2.45	15	7
1:B:83:ASN:O	1:B:85:LYS:N	0.64	2.31	22	1
1:A:23:GLY:O	1:A:48:SER:CA	0.64	2.45	24	1
1:A:10:MET:C	1:A:12:SER:N	0.64	2.55	23	20
1:A:58:VAL:N	1:A:61:GLU:O	0.64	2.28	24	23
1:B:17:ASN:HD22	1:B:29:LEU:HD23	0.64	1.52	6	3
1:A:48:SER:O	1:A:49:TYR:C	0.64	2.39	11	1
1:A:59:ASN:O	1:A:90:GLU:CD	0.64	2.39	13	3
1:B:53:ASN:ND2	1:B:67:ASN:HD21	0.64	1.90	15	1
1:A:49:TYR:CA	1:A:68:GLU:OE2	0.64	2.45	21	1
1:A:56:ILE:CG2	1:B:91:ILE:HG23	0.64	2.22	23	1
1:A:72:VAL:HG23	1:A:73:GLY:N	0.64	2.07	24	22
1:B:17:ASN:HD21	1:B:29:LEU:CD2	0.64	2.01	23	6
1:A:17:ASN:C	1:A:17:ASN:HD22	0.64	1.98	6	7
1:A:64:TYR:CD2	1:A:79:ILE:HG21	0.64	2.27	19	11
1:B:24:LYS:O	1:B:25:GLY:O	0.64	2.16	14	8
1:B:88:TYR:CE1	1:B:90:GLU:CG	0.64	2.80	11	2
1:B:47:ILE:CG2	1:B:68:GLU:O	0.64	2.45	10	1
1:A:10:MET:HE3	1:A:13:ILE:HD11	0.64	1.68	14	1
1:A:10:MET:SD	1:A:86:GLY:O	0.64	2.55	15	1
1:B:59:ASN:O	1:B:59:ASN:ND2	0.64	2.31	15	1
1:A:49:TYR:O	1:A:50:GLU:C	0.64	2.41	10	9
1:B:56:ILE:C	1:B:57:PHE:CD1	0.64	2.76	18	12
1:A:24:LYS:O	1:A:25:GLY:O	0.64	2.16	18	8
1:B:12:SER:O	1:B:16:VAL:CG2	0.64	2.45	12	8
1:A:44:GLY:O	1:A:47:ILE:CD1	0.64	2.45	19	4
1:A:56:ILE:C	1:A:57:PHE:CD1	0.64	2.76	18	12
1:B:42:ASN:HD22	1:B:42:ASN:H	0.64	1.33	4	4
1:B:43:ALA:O	1:B:45:TYR:N	0.64	2.30	13	10
1:B:70:SER:C	1:B:71:THR:HG23	0.64	2.17	4	4
1:B:42:ASN:O	1:B:42:ASN:CG	0.64	2.40	8	6
1:B:10:MET:HE3	1:B:13:ILE:HD11	0.64	1.68	14	1
1:A:59:ASN:O	1:A:59:ASN:ND2	0.64	2.31	15	1
1:A:71:THR:CG2	1:A:71:THR:O	0.64	2.46	18	1
1:B:47:ILE:C	1:B:49:TYR:N	0.64	2.54	22	13

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:72:VAL:O	1:B:76:SER:N	0.64	2.30	10	25
1:B:66:PHE:CD1	1:B:72:VAL:HG12	0.64	2.27	14	11
1:A:58:VAL:HG21	1:A:85:LYS:HG3	0.64	1.68	23	5
1:B:47:ILE:O	1:B:48:SER:OG	0.64	2.15	20	3
1:B:49:TYR:CA	1:B:68:GLU:OE2	0.64	2.45	21	1
1:B:24:LYS:H	1:B:24:LYS:CE	0.64	2.06	4	1
1:A:42:ASN:C	1:A:42:ASN:ND2	0.64	2.55	6	1
1:B:42:ASN:C	1:B:42:ASN:ND2	0.64	2.55	6	1
1:B:37:LYS:HZ2	1:B:37:LYS:HB2	0.64	1.51	18	2
1:B:66:PHE:N	1:B:66:PHE:CD2	0.64	2.64	7	9
1:B:79:ILE:C	1:B:81:LYS:H	0.64	2.01	20	22
1:A:17:ASN:HD22	1:A:29:LEU:HD23	0.64	1.52	6	3
1:B:35:GLN:HE21	1:B:83:ASN:HD22	0.64	1.36	15	1
1:B:23:GLY:O	1:B:48:SER:CA	0.64	2.45	24	1
1:A:34:ASN:O	1:A:84:ILE:O	0.64	2.15	14	13
1:A:87:MET:HE3	1:B:89:ILE:HD11	0.64	1.69	1	1
1:B:77:ASN:O	1:B:80:ASN:CG	0.64	2.41	1	5
1:A:42:ASN:HD22	1:A:42:ASN:H	0.64	1.34	4	2
1:A:24:LYS:O	1:A:25:GLY:C	0.64	2.41	4	6
1:B:24:LYS:O	1:B:25:GLY:C	0.64	2.41	4	6
1:A:47:ILE:HG23	1:A:72:VAL:HG13	0.64	1.68	25	1
1:A:21:ASN:O	1:A:49:TYR:OH	0.64	2.16	3	2
1:A:47:ILE:O	1:A:48:SER:OG	0.64	2.15	20	3
1:B:19:LYS:C	1:B:21:ASN:H	0.63	2.01	5	15
1:A:42:ASN:N	1:A:42:ASN:ND2	0.63	2.45	4	3
1:A:70:SER:C	1:A:71:THR:HG23	0.63	2.17	4	3
1:A:17:ASN:ND2	1:A:29:LEU:CG	0.63	2.61	11	8
1:A:49:TYR:CG	1:A:68:GLU:OE1	0.63	2.51	24	1
1:A:19:LYS:C	1:A:21:ASN:H	0.63	2.01	5	16
1:B:32:ASN:OD1	1:B:32:ASN:C	0.63	2.41	23	7
1:A:10:MET:O	1:A:11:ASN:CB	0.63	2.45	8	3
1:B:21:ASN:O	1:B:49:TYR:OH	0.63	2.16	3	2
1:B:71:THR:OG1	1:B:71:THR:O	0.63	2.16	14	6
1:A:88:TYR:CE1	1:A:90:GLU:CG	0.63	2.80	11	2
1:A:51:ASP:C	1:A:67:ASN:HD21	0.63	2.00	7	1
1:B:58:VAL:HG13	1:B:59:ASN:ND2	0.63	2.08	18	3
1:A:47:ILE:CG2	1:A:68:GLU:O	0.63	2.45	10	1
1:A:19:LYS:O	1:A:21:ASN:N	0.63	2.30	5	13
1:A:45:TYR:O	1:A:46:GLY:C	0.63	2.42	12	8
1:A:89:ILE:O	1:A:90:GLU:OE1	0.63	2.17	6	4
1:B:49:TYR:CG	1:B:68:GLU:OE1	0.63	2.51	24	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:49:TYR:O	1:A:50:GLU:O	0.63	2.16	18	15
1:A:78:ASP:O	1:A:81:LYS:CG	0.63	2.47	20	15
1:B:26:LYS:HD3	1:B:26:LYS:H	0.63	1.53	19	4
1:B:32:ASN:OD1	1:B:33:GLY:N	0.63	2.32	4	2
1:B:58:VAL:HG21	1:B:85:LYS:HG3	0.63	1.68	23	5
1:B:17:ASN:ND2	1:B:29:LEU:CG	0.63	2.61	11	8
1:B:51:ASP:C	1:B:67:ASN:HD21	0.63	2.00	7	1
1:B:24:LYS:NZ	1:B:48:SER:HB2	0.63	2.09	14	1
1:B:52:LYS:C	1:B:67:ASN:ND2	0.63	2.56	7	6
1:B:20:LEU:HD21	1:B:54:TRP:CD2	0.63	2.28	11	5
1:A:52:LYS:N	1:A:67:ASN:HD21	0.63	1.92	7	1
1:A:58:VAL:HG13	1:A:59:ASN:ND2	0.63	2.08	18	3
1:A:87:MET:CG	1:A:87:MET:O	0.63	2.46	18	3
1:A:53:ASN:ND2	1:A:67:ASN:HD21	0.63	1.91	15	1
1:A:77:ASN:O	1:A:80:ASN:CG	0.63	2.41	1	5
1:B:29:LEU:N	1:B:29:LEU:CD1	0.63	2.49	11	12
1:A:71:THR:O	1:A:71:THR:OG1	0.63	2.16	14	14
1:A:42:ASN:CG	1:A:42:ASN:O	0.63	2.42	14	3
1:B:71:THR:O	1:B:71:THR:CG2	0.63	2.46	18	1
1:A:89:ILE:HG21	1:B:88:TYR:O	0.63	1.94	3	24
1:A:53:ASN:O	1:B:94:ILE:HG22	0.63	1.94	9	13
1:A:20:LEU:HD22	1:A:66:PHE:CZ	0.63	2.28	11	4
1:A:29:LEU:HB3	1:A:36:LEU:HD11	0.63	1.69	11	3
1:B:20:LEU:HD22	1:B:66:PHE:CZ	0.63	2.28	11	4
1:A:24:LYS:H	1:A:24:LYS:CE	0.63	2.06	4	1
1:A:32:ASN:OD1	1:A:33:GLY:N	0.63	2.32	4	2
1:B:24:LYS:HZ2	1:B:48:SER:CA	0.63	2.07	14	1
1:B:14:ASN:O	1:B:15:SER:C	0.63	2.42	3	9
1:B:45:TYR:O	1:B:46:GLY:C	0.63	2.42	12	8
1:B:49:TYR:O	1:B:50:GLU:O	0.63	2.16	18	15
1:A:52:LYS:C	1:A:67:ASN:ND2	0.63	2.56	7	6
1:A:79:ILE:C	1:A:81:LYS:N	0.63	2.57	12	24
1:A:79:ILE:C	1:A:81:LYS:H	0.63	2.01	20	22
1:B:78:ASP:O	1:B:81:LYS:CG	0.63	2.47	20	15
1:A:70:SER:O	1:A:71:THR:O	0.63	2.16	18	10
1:B:45:TYR:CD1	1:B:45:TYR:N	0.63	2.61	5	2
1:B:89:ILE:O	1:B:90:GLU:OE1	0.63	2.17	6	4
1:B:93:GLN:OE1	1:B:93:GLN:O	0.63	2.17	14	2
1:A:91:ILE:HG23	1:B:56:ILE:CG2	0.63	2.21	23	1
1:A:14:ASN:N	1:A:14:ASN:HD22	0.62	1.92	11	5
1:B:83:ASN:O	1:B:83:ASN:CG	0.62	2.41	2	11

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:20:LEU:HD21	1:A:54:TRP:CD2	0.62	2.27	11	5
1:B:13:ILE:CD1	1:B:14:ASN:H	0.62	2.07	4	2
1:B:70:SER:O	1:B:71:THR:HG22	0.62	1.94	10	1
1:B:48:SER:O	1:B:50:GLU:N	0.62	2.32	11	1
1:A:32:ASN:OD1	1:A:32:ASN:C	0.62	2.41	23	7
1:A:47:ILE:C	1:A:49:TYR:N	0.62	2.54	22	11
1:A:66:PHE:N	1:A:66:PHE:CD1	0.62	2.67	15	10
1:A:93:GLN:O	1:A:93:GLN:OE1	0.62	2.17	14	25
1:B:10:MET:C	1:B:12:SER:N	0.62	2.55	23	20
1:B:19:LYS:C	1:B:21:ASN:N	0.62	2.55	5	15
1:A:48:SER:O	1:A:50:GLU:N	0.62	2.32	11	1
1:A:35:GLN:HE21	1:A:83:ASN:HD22	0.62	1.36	15	1
1:A:83:ASN:O	1:A:85:LYS:N	0.62	2.31	22	1
1:B:79:ILE:C	1:B:81:LYS:N	0.62	2.57	15	24
1:A:42:ASN:H	1:A:42:ASN:HD22	0.62	1.37	10	2
1:B:42:ASN:CG	1:B:42:ASN:O	0.62	2.42	14	2
1:A:59:ASN:N	1:A:88:TYR:O	0.62	2.33	20	2
1:A:88:TYR:O	1:B:89:ILE:HG21	0.62	1.94	3	24
1:B:44:GLY:O	1:B:47:ILE:CD1	0.62	2.45	19	4
1:B:32:ASN:OD1	1:B:37:LYS:NZ	0.62	2.32	5	1
1:B:55:GLY:C	1:B:57:PHE:CE2	0.62	2.77	23	9
1:A:58:VAL:C	1:A:60:GLY:H	0.62	2.02	4	13
1:A:66:PHE:N	1:A:66:PHE:CD2	0.62	2.67	14	9
1:A:94:ILE:HG22	1:B:53:ASN:O	0.62	1.94	9	13
1:B:49:TYR:O	1:B:50:GLU:C	0.62	2.41	10	9
1:B:59:ASN:CG	1:B:59:ASN:O	0.62	2.43	11	1
1:A:19:LYS:C	1:A:21:ASN:N	0.62	2.55	5	15
1:A:59:ASN:CG	1:A:59:ASN:O	0.62	2.43	11	1
1:B:45:TYR:CE1	1:B:47:ILE:CD1	0.62	2.83	15	1
1:A:49:TYR:O	1:A:68:GLU:OE2	0.62	2.18	21	1
1:B:20:LEU:O	1:B:49:TYR:OH	0.62	2.18	24	1
1:A:13:ILE:CD1	1:A:14:ASN:H	0.62	2.07	4	2
1:B:89:ILE:O	1:B:90:GLU:CG	0.62	2.48	11	6
1:B:64:TYR:CE2	1:B:66:PHE:CD1	0.62	2.88	19	3
1:A:45:TYR:CE1	1:A:47:ILE:CD1	0.62	2.83	15	1
1:B:22:LYS:O	1:B:23:GLY:C	0.62	2.42	18	1
1:A:26:LYS:CD	1:A:41:SER:O	0.62	2.48	4	2
1:B:26:LYS:CD	1:B:41:SER:O	0.62	2.48	4	2
1:A:32:ASN:OD1	1:A:37:LYS:NZ	0.62	2.32	5	1
1:B:70:SER:O	1:B:71:THR:O	0.62	2.16	18	10
1:B:34:ASN:ND2	1:B:86:GLY:CA	0.62	2.63	21	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:22:LYS:C	1:A:24:LYS:H	0.62	2.03	23	1
1:B:26:LYS:O	1:B:40:SER:OG	0.62	2.12	6	6
1:B:61:GLU:C	1:B:62:LYS:O	0.62	2.42	14	25
1:A:56:ILE:C	1:A:63:VAL:HG12	0.62	2.20	9	15
1:B:52:LYS:N	1:B:67:ASN:HD21	0.62	1.92	7	1
1:A:24:LYS:NZ	1:A:48:SER:HB2	0.62	2.09	14	1
1:A:21:ASN:C	1:A:21:ASN:OD1	0.62	2.43	18	1
1:B:49:TYR:O	1:B:68:GLU:OE2	0.62	2.17	21	1
1:A:26:LYS:H	1:A:26:LYS:HD3	0.61	1.54	19	10
1:A:24:LYS:CD	1:A:24:LYS:N	0.61	2.63	9	3
1:A:13:ILE:HD12	1:A:13:ILE:H	0.61	1.55	13	8
1:A:22:LYS:O	1:A:23:GLY:C	0.61	2.42	18	1
1:A:26:LYS:C	1:A:40:SER:HG	0.61	2.03	12	2
1:A:75:ILE:O	1:A:78:ASP:N	0.61	2.33	18	20
1:B:75:ILE:O	1:B:78:ASP:N	0.61	2.33	18	20
1:A:56:ILE:N	1:A:56:ILE:CD1	0.61	2.59	11	14
1:B:56:ILE:C	1:B:63:VAL:HG12	0.61	2.20	9	15
1:B:59:ASN:OD1	1:B:59:ASN:O	0.61	2.18	10	4
1:B:24:LYS:NZ	1:B:24:LYS:N	0.61	2.49	4	1
1:B:67:ASN:OD1	1:B:69:LYS:N	0.61	2.33	24	4
1:B:34:ASN:OD1	1:B:84:ILE:O	0.61	2.18	20	3
1:A:29:LEU:N	1:A:29:LEU:CD2	0.61	2.58	11	16
1:A:61:GLU:C	1:A:62:LYS:O	0.61	2.42	14	25
1:B:58:VAL:C	1:B:60:GLY:H	0.61	2.02	4	12
1:B:66:PHE:CD1	1:B:66:PHE:N	0.61	2.67	15	14
1:B:16:VAL:O	1:B:19:LYS:CB	0.61	2.48	3	2
1:B:29:LEU:HB3	1:B:36:LEU:HD11	0.61	1.69	11	3
1:A:89:ILE:O	1:A:90:GLU:CG	0.61	2.48	11	6
1:A:55:GLY:C	1:A:57:PHE:CE2	0.61	2.77	23	8
1:B:51:ASP:OD2	1:B:67:ASN:ND2	0.61	2.34	19	2
1:B:34:ASN:OD1	1:B:85:LYS:C	0.61	2.43	21	1
1:B:93:GLN:O	1:B:93:GLN:OE1	0.61	2.18	8	23
1:A:59:ASN:OD1	1:A:59:ASN:O	0.61	2.18	10	5
1:A:24:LYS:N	1:A:24:LYS:NZ	0.61	2.49	4	1
1:A:59:ASN:O	1:A:59:ASN:OD1	0.61	2.18	11	3
1:A:64:TYR:CE2	1:A:66:PHE:CD1	0.61	2.88	19	3
1:A:34:ASN:OD1	1:A:85:LYS:C	0.61	2.43	21	1
1:A:47:ILE:O	1:A:48:SER:HB2	0.61	1.94	21	1
1:B:22:LYS:C	1:B:24:LYS:H	0.61	2.03	23	1
1:A:13:ILE:CD1	1:A:14:ASN:N	0.61	2.64	4	2
1:A:58:VAL:C	1:A:59:ASN:CG	0.61	2.69	21	4

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:59:ASN:C	1:A:90:GLU:CD	0.61	2.68	17	2
1:B:82:LEU:CD1	1:B:82:LEU:C	0.61	2.73	1	4
1:A:16:VAL:O	1:A:19:LYS:CB	0.61	2.48	3	2
1:B:48:SER:C	1:B:49:TYR:CD2	0.61	2.79	20	2
1:A:24:LYS:HZ2	1:A:48:SER:CA	0.61	2.08	14	1
1:A:34:ASN:ND2	1:A:86:GLY:CA	0.61	2.63	21	1
1:A:87:MET:SD	1:B:87:MET:CG	0.61	2.89	25	1
1:A:87:MET:CG	1:B:87:MET:SD	0.61	2.89	25	1
1:A:70:SER:OG	1:A:75:ILE:CD1	0.61	2.46	23	24
1:A:58:VAL:HG13	1:A:59:ASN:HD22	0.61	1.55	5	5
1:B:59:ASN:O	1:B:59:ASN:CG	0.61	2.43	23	6
1:B:58:VAL:C	1:B:59:ASN:CG	0.61	2.69	21	4
1:A:70:SER:O	1:A:71:THR:HG22	0.61	1.94	10	1
1:B:14:ASN:HD22	1:B:14:ASN:N	0.61	1.92	11	3
1:A:48:SER:C	1:A:49:TYR:CD2	0.61	2.79	20	2
1:B:59:ASN:C	1:B:90:GLU:CD	0.61	2.68	17	2
1:B:47:ILE:O	1:B:48:SER:HB2	0.61	1.94	21	1
1:A:51:ASP:OD2	1:A:67:ASN:ND2	0.61	2.34	19	2
1:A:45:TYR:CD1	1:A:71:THR:CG2	0.61	2.84	17	1
1:A:51:ASP:OD1	1:A:51:ASP:C	0.61	2.44	1	3
1:A:61:GLU:O	1:A:62:LYS:C	0.61	2.43	14	25
1:A:26:LYS:CG	1:A:26:LYS:O	0.61	2.49	15	3
1:B:21:ASN:OD1	1:B:21:ASN:C	0.61	2.43	18	4
1:B:58:VAL:HG21	1:B:85:LYS:HE3	0.61	1.73	16	3
1:B:45:TYR:CD1	1:B:71:THR:CG2	0.61	2.83	17	1
1:B:20:LEU:HD21	1:B:66:PHE:CE2	0.61	2.31	19	2
1:A:86:GLY:O	1:A:88:TYR:N	0.61	2.34	24	3
1:B:13:ILE:CD1	1:B:14:ASN:N	0.61	2.64	4	2
1:B:17:ASN:OD1	1:B:29:LEU:O	0.61	2.19	4	3
1:B:80:ASN:HD22	1:B:80:ASN:H	0.61	1.37	5	1
1:B:32:ASN:C	1:B:34:ASN:H	0.61	2.04	20	1
1:B:59:ASN:N	1:B:88:TYR:O	0.61	2.33	20	2
1:B:70:SER:OG	1:B:75:ILE:CD1	0.60	2.48	5	24
1:B:58:VAL:HG13	1:B:59:ASN:HD22	0.60	1.55	5	5
1:A:21:ASN:CG	1:A:22:LYS:H	0.60	2.03	3	6
1:A:59:ASN:O	1:A:59:ASN:CG	0.60	2.43	23	6
1:A:52:LYS:C	1:A:67:ASN:HD22	0.60	2.04	7	1
1:A:34:ASN:CB	1:A:85:LYS:C	0.60	2.74	25	2
1:A:51:ASP:OD2	1:A:51:ASP:N	0.60	2.34	20	1
1:B:48:SER:OG	1:B:49:TYR:CE2	0.60	2.54	24	1
1:B:10:MET:C	1:B:12:SER:H	0.60	2.04	23	18

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:33:GLY:C	1:A:34:ASN:OD1	0.60	2.44	5	2
1:B:59:ASN:OD1	1:B:88:TYR:CD1	0.60	2.54	7	2
1:A:58:VAL:HG21	1:A:85:LYS:HE3	0.60	1.73	9	3
1:B:20:LEU:HD21	1:B:54:TRP:CE2	0.60	2.32	9	2
1:A:34:ASN:OD1	1:A:84:ILE:O	0.60	2.18	20	3
1:A:14:ASN:O	1:A:15:SER:C	0.60	2.42	3	10
1:A:17:ASN:HD21	1:A:29:LEU:CD2	0.60	1.98	18	7
1:A:64:TYR:CE2	1:A:79:ILE:CD1	0.60	2.85	12	9
1:A:17:ASN:OD1	1:A:29:LEU:O	0.60	2.19	4	3
1:B:33:GLY:C	1:B:34:ASN:OD1	0.60	2.44	5	2
1:B:59:ASN:O	1:B:59:ASN:OD1	0.60	2.18	11	3
1:B:87:MET:CG	1:B:87:MET:O	0.60	2.46	18	3
1:A:88:TYR:OH	1:A:90:GLU:CG	0.60	2.49	20	2
1:A:24:LYS:NZ	1:A:49:TYR:OH	0.60	2.26	25	1
1:B:52:LYS:C	1:B:67:ASN:HD22	0.60	2.04	7	1
1:A:89:ILE:O	1:A:90:GLU:HG3	0.60	1.97	13	2
1:B:34:ASN:CB	1:B:85:LYS:C	0.60	2.75	25	2
1:A:29:LEU:N	1:A:29:LEU:HD13	0.60	2.11	19	18
1:B:51:ASP:C	1:B:51:ASP:OD1	0.60	2.44	1	2
1:A:17:ASN:ND2	1:A:17:ASN:O	0.60	2.35	10	10
1:B:12:SER:C	1:B:14:ASN:N	0.60	2.58	5	7
1:A:83:ASN:O	1:A:83:ASN:CG	0.60	2.44	23	9
1:B:21:ASN:CG	1:B:22:LYS:H	0.60	2.03	3	6
1:B:86:GLY:O	1:B:88:TYR:N	0.60	2.34	24	3
1:B:83:ASN:OD1	1:B:83:ASN:O	0.60	2.20	11	3
1:B:89:ILE:O	1:B:90:GLU:OE2	0.60	2.19	24	2
1:A:59:ASN:OD1	1:A:88:TYR:CD1	0.60	2.54	7	2
1:B:82:LEU:HD11	1:B:84:ILE:HG13	0.60	1.72	17	4
1:A:77:ASN:OD1	1:A:77:ASN:C	0.60	2.45	11	9
1:B:64:TYR:CE2	1:B:79:ILE:CD1	0.60	2.85	12	9
1:B:69:LYS:O	1:B:71:THR:HG22	0.60	1.96	16	6
1:A:89:ILE:O	1:A:90:GLU:OE2	0.60	2.19	24	2
1:B:76:SER:O	1:B:80:ASN:CG	0.60	2.45	7	5
1:B:89:ILE:O	1:B:90:GLU:HG3	0.60	1.97	13	2
1:A:50:GLU:O	1:A:52:LYS:N	0.60	2.35	16	1
1:B:26:LYS:H	1:B:42:ASN:HD21	0.60	1.40	25	1
1:A:69:LYS:O	1:A:71:THR:HG22	0.60	1.96	16	6
1:A:10:MET:H	1:A:13:ILE:CG1	0.60	2.09	9	1
1:A:67:ASN:OD1	1:A:69:LYS:N	0.60	2.35	11	4
1:A:47:ILE:HG21	1:A:68:GLU:HA	0.60	1.74	25	1
1:A:89:ILE:HD11	1:B:87:MET:HE3	0.60	1.74	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:64:TYR:CE1	1:B:79:ILE:CD1	0.60	2.85	23	15
1:A:43:ALA:O	1:A:45:TYR:CE1	0.60	2.55	23	2
1:B:43:ALA:O	1:B:45:TYR:CE1	0.60	2.55	23	2
1:B:34:ASN:OD1	1:B:86:GLY:C	0.60	2.45	7	1
1:B:47:ILE:HG21	1:B:68:GLU:C	0.60	2.22	10	1
1:B:13:ILE:HD12	1:B:13:ILE:H	0.60	1.56	13	7
1:B:83:ASN:C	1:B:83:ASN:ND2	0.60	2.60	14	1
1:B:51:ASP:OD2	1:B:51:ASP:N	0.60	2.34	20	1
1:A:71:THR:O	1:A:72:VAL:C	0.60	2.45	22	20
1:B:75:ILE:O	1:B:76:SER:C	0.60	2.45	15	25
1:A:24:LYS:O	1:A:44:GLY:O	0.60	2.20	2	4
1:B:52:LYS:O	1:B:68:GLU:OE2	0.60	2.20	15	4
1:A:82:LEU:HD11	1:A:84:ILE:HG13	0.60	1.72	17	3
1:A:47:ILE:HG21	1:A:68:GLU:C	0.60	2.22	10	1
1:B:89:ILE:C	1:B:90:GLU:OE1	0.60	2.45	13	3
1:B:88:TYR:OH	1:B:90:GLU:CG	0.60	2.49	20	2
1:A:51:ASP:CG	1:A:67:ASN:OD1	0.59	2.45	14	3
1:B:71:THR:O	1:B:72:VAL:C	0.59	2.45	22	21
1:B:77:ASN:OD1	1:B:77:ASN:C	0.59	2.46	23	9
1:B:59:ASN:CB	1:B:88:TYR:CE2	0.59	2.85	19	5
1:B:82:LEU:HD12	1:B:82:LEU:N	0.59	2.12	13	4
1:A:17:ASN:ND2	1:A:29:LEU:CD1	0.59	2.65	11	1
1:A:67:ASN:OD1	1:A:68:GLU:N	0.59	2.34	11	2
1:A:10:MET:C	1:A:12:SER:H	0.59	2.04	23	19
1:A:75:ILE:O	1:A:76:SER:C	0.59	2.45	6	25
1:A:42:ASN:C	1:A:44:GLY:N	0.59	2.60	13	8
1:A:55:GLY:C	1:A:62:LYS:HZ1	0.59	2.05	3	1
1:A:52:LYS:O	1:A:68:GLU:OE2	0.59	2.21	18	4
1:A:20:LEU:HD21	1:A:54:TRP:CE2	0.59	2.31	9	2
1:B:10:MET:H	1:B:13:ILE:CG1	0.59	2.09	9	1
1:A:89:ILE:C	1:A:90:GLU:OE1	0.59	2.45	13	3
1:A:32:ASN:C	1:A:34:ASN:H	0.59	2.04	20	1
1:B:48:SER:O	1:B:49:TYR:CD1	0.59	2.55	20	1
1:B:24:LYS:O	1:B:44:GLY:O	0.59	2.20	2	4
1:A:29:LEU:N	1:A:29:LEU:CD1	0.59	2.49	11	11
1:B:64:TYR:HH	1:B:66:PHE:HD1	0.59	1.35	7	2
1:A:48:SER:O	1:A:49:TYR:CD1	0.59	2.55	20	1
1:B:47:ILE:O	1:B:68:GLU:O	0.59	2.20	21	1
1:B:82:LEU:O	1:B:83:ASN:C	0.59	2.46	13	8
1:B:26:LYS:O	1:B:26:LYS:CG	0.59	2.49	15	7
1:A:34:ASN:OD1	1:A:86:GLY:C	0.59	2.45	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:24:LYS:CD	1:B:24:LYS:N	0.59	2.63	9	3
1:A:59:ASN:OD1	1:A:61:GLU:OE2	0.59	2.20	25	1
1:B:51:ASP:CG	1:B:67:ASN:OD1	0.59	2.45	14	3
1:A:49:TYR:CB	1:A:52:LYS:HZ2	0.59	2.10	3	1
1:A:80:ASN:HD22	1:A:80:ASN:H	0.59	1.37	5	1
1:A:20:LEU:HD21	1:A:66:PHE:CE2	0.59	2.31	19	2
1:A:47:ILE:O	1:A:68:GLU:O	0.59	2.20	21	1
1:A:48:SER:OG	1:A:49:TYR:CE2	0.59	2.54	24	1
1:A:71:THR:O	1:A:73:GLY:N	0.59	2.35	11	8
1:A:51:ASP:O	1:A:51:ASP:OD2	0.59	2.21	17	2
1:B:51:ASP:OD2	1:B:67:ASN:OD1	0.59	2.19	10	2
1:B:17:ASN:ND2	1:B:29:LEU:CD1	0.59	2.65	11	1
1:B:34:ASN:O	1:B:83:ASN:C	0.59	2.46	1	1
1:B:71:THR:O	1:B:73:GLY:N	0.59	2.35	11	8
1:A:76:SER:O	1:A:80:ASN:CG	0.59	2.46	5	5
1:A:51:ASP:OD2	1:A:67:ASN:OD1	0.59	2.19	10	2
1:A:54:TRP:NE1	1:A:68:GLU:OE2	0.59	2.35	10	1
1:A:34:ASN:O	1:A:84:ILE:CG1	0.59	2.50	13	1
1:B:34:ASN:O	1:B:84:ILE:CG1	0.59	2.50	13	1
1:A:30:SER:HB3	1:A:37:LYS:HZ3	0.59	1.58	23	1
1:B:59:ASN:OD1	1:B:61:GLU:OE2	0.59	2.20	25	1
1:A:60:GLY:HA2	1:B:60:GLY:HA2	0.59	1.74	4	5
1:A:64:TYR:CE1	1:A:79:ILE:CD1	0.59	2.85	23	16
1:B:42:ASN:C	1:B:44:GLY:N	0.59	2.60	15	9
1:B:56:ILE:N	1:B:62:LYS:HZ2	0.59	1.94	3	1
1:A:32:ASN:O	1:A:35:GLN:O	0.59	2.21	11	3
1:A:34:ASN:N	1:A:34:ASN:OD1	0.59	2.35	24	2
1:A:59:ASN:O	1:A:90:GLU:OE1	0.59	2.21	23	1
1:B:31:MET:O	1:B:31:MET:SD	0.59	2.61	1	1
1:B:47:ILE:O	1:B:49:TYR:O	0.59	2.20	5	2
1:A:47:ILE:O	1:A:68:GLU:OE2	0.59	2.21	13	1
1:B:24:LYS:C	1:B:46:GLY:H	0.59	2.06	17	1
1:A:45:TYR:CE1	1:A:47:ILE:CG2	0.59	2.86	21	1
1:B:24:LYS:NZ	1:B:48:SER:OG	0.59	2.36	24	1
1:A:82:LEU:O	1:A:83:ASN:C	0.59	2.46	13	8
1:A:83:ASN:O	1:A:83:ASN:ND2	0.59	2.35	2	8
1:B:61:GLU:O	1:B:62:LYS:C	0.59	2.46	1	25
1:B:42:ASN:N	1:B:42:ASN:ND2	0.59	2.47	3	3
1:B:49:TYR:N	1:B:49:TYR:CD1	0.59	2.71	22	3
1:A:83:ASN:OD1	1:A:83:ASN:C	0.59	2.46	24	3
1:B:71:THR:O	1:B:71:THR:OG1	0.59	2.18	25	8

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:67:ASN:OD1	1:B:68:GLU:N	0.59	2.35	11	2
1:B:58:VAL:O	1:B:59:ASN:OD1	0.59	2.21	20	1
1:B:47:ILE:HG21	1:B:68:GLU:HA	0.59	1.74	25	1
1:A:31:MET:O	1:A:31:MET:SD	0.58	2.61	1	1
1:A:34:ASN:O	1:A:83:ASN:C	0.58	2.45	1	1
1:B:64:TYR:CE1	1:B:79:ILE:HD11	0.58	2.33	6	15
1:B:43:ALA:C	1:B:45:TYR:N	0.58	2.61	20	12
1:A:59:ASN:CB	1:A:88:TYR:CE2	0.58	2.85	19	5
1:A:59:ASN:ND2	1:A:59:ASN:C	0.58	2.61	15	1
1:B:45:TYR:CE1	1:B:47:ILE:CG2	0.58	2.86	21	1
1:B:88:TYR:CE2	1:B:90:GLU:OE2	0.58	2.56	24	1
1:B:34:ASN:OD1	1:B:34:ASN:N	0.58	2.35	24	3
1:A:64:TYR:CE2	1:A:79:ILE:HG13	0.58	2.33	19	16
1:B:17:ASN:ND2	1:B:17:ASN:O	0.58	2.35	10	10
1:A:42:ASN:N	1:A:42:ASN:HD22	0.58	1.96	3	1
1:A:43:ALA:C	1:A:45:TYR:N	0.58	2.59	25	12
1:B:32:ASN:O	1:B:35:GLN:O	0.58	2.21	11	3
1:B:51:ASP:O	1:B:51:ASP:OD2	0.58	2.21	17	2
1:A:24:LYS:CG	1:A:48:SER:O	0.58	2.51	10	1
1:A:58:VAL:O	1:A:59:ASN:OD1	0.58	2.21	20	1
1:A:30:SER:N	1:A:37:LYS:O	0.58	2.37	20	25
1:B:27:LEU:HD11	1:B:38:ALA:HB1	0.58	1.74	21	16
1:A:49:TYR:N	1:A:49:TYR:CD1	0.58	2.71	22	4
1:A:83:ASN:O	1:A:83:ASN:OD1	0.58	2.20	11	6
1:A:17:ASN:O	1:A:21:ASN:OD1	0.58	2.22	14	2
1:B:50:GLU:O	1:B:52:LYS:N	0.58	2.35	16	1
1:B:59:ASN:C	1:B:90:GLU:OE1	0.58	2.46	17	1
1:B:33:GLY:O	1:B:34:ASN:CB	0.58	2.52	20	1
1:A:47:ILE:O	1:A:49:TYR:O	0.58	2.20	5	2
1:A:83:ASN:OD1	1:A:83:ASN:O	0.58	2.21	5	2
1:B:23:GLY:C	1:B:24:LYS:HZ1	0.58	2.07	8	1
1:B:67:ASN:OD1	1:B:67:ASN:C	0.58	2.46	11	3
1:A:21:ASN:O	1:A:24:LYS:CE	0.58	2.51	12	1
1:A:45:TYR:CD2	1:A:47:ILE:CD1	0.58	2.86	13	2
1:A:82:LEU:CD1	1:A:82:LEU:C	0.58	2.75	13	2
1:A:24:LYS:C	1:A:46:GLY:H	0.58	2.06	17	1
1:A:19:LYS:NZ	1:B:93:GLN:NE2	0.58	2.49	18	1
1:A:13:ILE:H	1:A:13:ILE:CD1	0.58	2.05	1	5
1:A:44:GLY:O	1:A:47:ILE:CG1	0.58	2.51	19	2
1:A:72:VAL:O	1:A:73:GLY:C	0.58	2.47	12	25
1:B:30:SER:N	1:B:37:LYS:O	0.58	2.37	20	25

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:14:ASN:C	1:A:16:VAL:N	0.58	2.60	3	3
1:B:41:SER:O	1:B:42:ASN:C	0.58	2.46	8	9
1:B:49:TYR:N	1:B:49:TYR:CD2	0.58	2.68	5	4
1:A:50:GLU:C	1:A:51:ASP:OD2	0.58	2.46	9	1
1:A:59:ASN:C	1:A:90:GLU:OE1	0.58	2.46	17	1
1:B:17:ASN:HB2	1:B:31:MET:HE1	0.58	1.75	25	2
1:A:58:VAL:O	1:A:59:ASN:C	0.58	2.46	25	12
1:B:64:TYR:HH	1:B:66:PHE:HD2	0.58	1.39	6	5
1:A:56:ILE:N	1:A:62:LYS:HZ2	0.58	1.96	3	1
1:B:10:MET:SD	1:B:14:ASN:ND2	0.58	2.77	3	1
1:B:83:ASN:O	1:B:83:ASN:OD1	0.58	2.22	9	5
1:A:22:LYS:H	1:A:24:LYS:NZ	0.58	1.96	6	1
1:B:21:ASN:O	1:B:24:LYS:CE	0.58	2.51	12	1
1:B:45:TYR:CD2	1:B:47:ILE:CD1	0.58	2.86	13	2
1:A:93:GLN:NE2	1:B:19:LYS:NZ	0.58	2.51	18	1
1:B:89:ILE:O	1:B:90:GLU:HG2	0.58	1.99	11	18
1:B:66:PHE:CD2	1:B:66:PHE:N	0.58	2.71	9	2
1:B:56:ILE:HD12	1:B:56:ILE:N	0.58	2.13	12	2
1:A:20:LEU:O	1:A:49:TYR:OH	0.58	2.18	24	1
1:B:44:GLY:O	1:B:47:ILE:CG1	0.58	2.51	19	2
1:B:56:ILE:HD11	1:B:66:PHE:HE2	0.58	1.59	14	4
1:A:51:ASP:CG	1:A:51:ASP:O	0.58	2.46	6	1
1:B:76:SER:O	1:B:80:ASN:OD1	0.58	2.22	6	2
1:B:45:TYR:C	1:B:45:TYR:CD2	0.58	2.82	11	1
1:A:11:ASN:OD1	1:A:11:ASN:O	0.58	2.21	13	2
1:A:82:LEU:N	1:A:82:LEU:HD12	0.58	2.12	13	2
1:B:17:ASN:O	1:B:21:ASN:OD1	0.58	2.21	19	2
1:B:59:ASN:ND2	1:B:59:ASN:C	0.58	2.61	15	1
1:A:17:ASN:HB2	1:A:31:MET:HE1	0.58	1.75	25	2
1:A:88:TYR:CE2	1:A:90:GLU:OE2	0.58	2.56	24	1
1:A:83:ASN:C	1:A:83:ASN:ND2	0.58	2.60	14	2
1:A:26:LYS:HD3	1:A:41:SER:O	0.58	1.98	4	2
1:A:32:ASN:O	1:A:35:GLN:OE1	0.58	2.21	20	2
1:A:90:GLU:OE1	1:A:91:ILE:O	0.58	2.21	20	2
1:B:90:GLU:OE1	1:B:91:ILE:O	0.58	2.21	20	2
1:A:85:LYS:O	1:A:86:GLY:O	0.58	2.22	22	1
1:B:59:ASN:O	1:B:90:GLU:OE1	0.58	2.21	23	1
1:A:27:LEU:HD11	1:A:38:ALA:HB1	0.58	1.74	21	16
1:B:65:THR:O	1:B:65:THR:CG2	0.58	2.52	19	13
1:B:70:SER:O	1:B:71:THR:C	0.58	2.47	23	16
1:A:12:SER:C	1:A:14:ASN:N	0.58	2.62	14	7

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:65:THR:CG2	1:A:65:THR:O	0.58	2.52	11	6
1:B:32:ASN:O	1:B:35:GLN:OE1	0.58	2.21	20	2
1:B:22:LYS:H	1:B:24:LYS:NZ	0.58	1.96	6	1
1:A:66:PHE:CD2	1:A:66:PHE:N	0.58	2.71	9	2
1:B:54:TRP:NE1	1:B:68:GLU:OE2	0.58	2.35	10	1
1:B:24:LYS:NZ	1:B:68:GLU:OE1	0.58	2.37	12	1
1:B:56:ILE:C	1:B:57:PHE:HD2	0.58	2.07	23	3
1:A:49:TYR:O	1:A:52:LYS:CE	0.58	2.52	13	2
1:B:47:ILE:O	1:B:68:GLU:OE2	0.58	2.21	13	1
1:A:45:TYR:CE2	1:A:71:THR:CG2	0.58	2.87	23	1
1:B:83:ASN:C	1:B:83:ASN:OD1	0.58	2.46	24	1
1:A:21:ASN:O	1:A:21:ASN:OD1	0.57	2.22	4	1
1:B:51:ASP:CG	1:B:51:ASP:O	0.57	2.46	6	1
1:B:50:GLU:C	1:B:51:ASP:OD2	0.57	2.46	9	1
1:A:33:GLY:O	1:A:34:ASN:CB	0.57	2.52	20	1
1:A:64:TYR:CE1	1:A:79:ILE:HG13	0.57	2.33	18	9
1:B:18:ASP:O	1:B:21:ASN:O	0.57	2.22	6	5
1:A:64:TYR:CE1	1:A:79:ILE:HD11	0.57	2.33	6	15
1:B:14:ASN:C	1:B:16:VAL:N	0.57	2.60	3	2
1:B:24:LYS:CG	1:B:48:SER:O	0.57	2.51	10	1
1:A:21:ASN:OD1	1:A:27:LEU:O	0.57	2.23	13	1
1:A:59:ASN:OD1	1:A:90:GLU:OE2	0.57	2.22	13	1
1:B:49:TYR:O	1:B:52:LYS:CE	0.57	2.52	13	2
1:A:24:LYS:NZ	1:A:48:SER:OG	0.57	2.36	24	1
1:B:64:TYR:CE1	1:B:79:ILE:HG13	0.57	2.33	18	9
1:A:10:MET:SD	1:A:14:ASN:ND2	0.57	2.77	3	1
1:B:40:SER:OG	1:B:73:GLY:C	0.57	2.48	5	1
1:B:54:TRP:CD1	1:B:54:TRP:N	0.57	2.72	7	2
1:B:67:ASN:C	1:B:69:LYS:H	0.57	2.07	10	2
1:A:67:ASN:OD1	1:A:67:ASN:C	0.57	2.46	11	3
1:B:21:ASN:OD1	1:B:21:ASN:O	0.57	2.23	18	2
1:A:26:LYS:H	1:A:42:ASN:HD21	0.57	1.39	25	1
1:B:49:TYR:CD1	1:B:49:TYR:N	0.57	2.72	7	4
1:B:62:LYS:HZ2	1:B:64:TYR:H	0.57	1.41	1	1
1:B:72:VAL:O	1:B:73:GLY:C	0.57	2.46	12	25
1:A:75:ILE:C	1:A:77:ASN:H	0.57	2.07	24	16
1:A:41:SER:O	1:A:42:ASN:C	0.57	2.46	8	9
1:A:56:ILE:N	1:A:62:LYS:HZ1	0.57	1.96	3	1
1:A:88:TYR:CE1	1:A:89:ILE:O	0.57	2.58	23	2
1:B:26:LYS:H	1:B:26:LYS:HD3	0.57	1.58	1	6
1:B:58:VAL:O	1:B:59:ASN:C	0.57	2.47	14	12

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:78:ASP:O	1:B:81:LYS:N	0.57	2.35	23	11
1:A:87:MET:CE	1:B:87:MET:SD	0.57	2.92	12	1
1:B:53:ASN:ND2	1:B:67:ASN:ND2	0.57	2.52	15	1
1:B:88:TYR:CE1	1:B:89:ILE:O	0.57	2.58	23	2
1:A:71:THR:O	1:A:71:THR:HG23	0.57	1.99	18	1
1:B:45:TYR:CE2	1:B:71:THR:CG2	0.57	2.87	23	1
1:B:20:LEU:HD21	1:B:66:PHE:CZ	0.57	2.35	12	15
1:A:59:ASN:ND2	1:A:61:GLU:HB2	0.57	2.15	11	13
1:A:58:VAL:HG12	1:A:63:VAL:HB	0.57	1.76	18	18
1:A:81:LYS:CD	1:A:81:LYS:O	0.57	2.52	11	4
1:B:26:LYS:HD3	1:B:41:SER:O	0.57	1.98	4	2
1:A:12:SER:OG	1:A:86:GLY:O	0.57	2.20	8	1
1:A:54:TRP:CD1	1:A:68:GLU:OE1	0.57	2.58	10	2
1:A:24:LYS:NZ	1:A:68:GLU:OE1	0.57	2.37	12	1
1:B:82:LEU:HD13	1:B:84:ILE:HG23	0.57	1.75	13	1
1:A:21:ASN:OD1	1:A:21:ASN:O	0.57	2.23	18	2
1:B:71:THR:O	1:B:71:THR:HG23	0.57	1.99	18	1
1:B:82:LEU:C	1:B:83:ASN:HD22	0.57	2.08	22	1
1:A:18:ASP:O	1:A:21:ASN:O	0.57	2.22	6	5
1:B:64:TYR:CE2	1:B:79:ILE:HG13	0.57	2.33	19	16
1:A:87:MET:SD	1:B:87:MET:CE	0.57	2.93	12	1
1:B:11:ASN:OD1	1:B:11:ASN:O	0.57	2.21	13	2
1:B:46:GLY:O	1:B:49:TYR:O	0.57	2.23	22	3
1:A:93:GLN:HG3	1:B:19:LYS:HZ1	0.57	1.60	17	1
1:A:20:LEU:HD21	1:A:66:PHE:CZ	0.57	2.35	12	15
1:B:58:VAL:O	1:B:59:ASN:CG	0.57	2.48	1	11
1:B:52:LYS:O	1:B:68:GLU:CD	0.57	2.47	7	1
1:A:45:TYR:C	1:A:45:TYR:CD2	0.57	2.82	11	1
1:A:47:ILE:O	1:A:68:GLU:CD	0.57	2.48	13	1
1:A:82:LEU:C	1:A:83:ASN:HD22	0.57	2.08	22	1
1:A:58:VAL:O	1:A:59:ASN:CG	0.57	2.48	1	11
1:B:32:ASN:O	1:B:35:GLN:N	0.57	2.34	22	8
1:A:42:ASN:O	1:A:43:ALA:C	0.57	2.47	18	6
1:B:47:ILE:O	1:B:68:GLU:CD	0.57	2.48	13	1
1:B:56:ILE:H	1:B:62:LYS:HZ1	0.57	1.43	1	1
1:B:13:ILE:HD13	1:B:14:ASN:N	0.57	2.15	4	2
1:A:50:GLU:HB2	1:A:52:LYS:HZ3	0.57	1.60	6	1
1:A:76:SER:O	1:A:80:ASN:OD1	0.57	2.22	6	2
1:A:13:ILE:O	1:A:17:ASN:CB	0.57	2.53	25	5
1:A:67:ASN:C	1:A:69:LYS:H	0.57	2.07	10	2
1:B:85:LYS:O	1:B:86:GLY:C	0.57	2.47	22	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:49:TYR:O	1:A:52:LYS:CD	0.57	2.52	25	1
1:B:49:TYR:O	1:B:52:LYS:CD	0.57	2.52	25	1
1:B:55:GLY:C	1:B:62:LYS:HZ1	0.56	2.07	3	1
1:B:58:VAL:HG12	1:B:63:VAL:HB	0.56	1.75	3	18
1:B:81:LYS:O	1:B:81:LYS:CE	0.56	2.53	6	1
1:A:19:LYS:HZ1	1:B:93:GLN:HG3	0.56	1.60	17	2
1:A:93:GLN:NE2	1:A:93:GLN:N	0.56	2.53	21	15
1:B:45:TYR:HB3	1:B:47:ILE:HD11	0.56	1.75	20	2
1:A:21:ASN:OD1	1:A:21:ASN:C	0.56	2.48	5	3
1:B:51:ASP:OD2	1:B:51:ASP:C	0.56	2.48	21	3
1:B:54:TRP:CD1	1:B:68:GLU:OE1	0.56	2.58	10	2
1:A:10:MET:HE3	1:A:12:SER:OG	0.56	2.00	11	1
1:B:59:ASN:OD1	1:B:90:GLU:OE2	0.56	2.22	13	1
1:B:59:ASN:C	1:B:59:ASN:HD22	0.56	2.07	22	3
1:A:85:LYS:O	1:A:86:GLY:C	0.56	2.47	22	1
1:A:56:ILE:HA	1:B:91:ILE:HG23	0.56	1.77	10	3
1:A:89:ILE:O	1:A:90:GLU:HG2	0.56	1.99	11	18
1:B:59:ASN:ND2	1:B:61:GLU:HB2	0.56	2.15	11	12
1:B:93:GLN:O	1:B:94:ILE:O	0.56	2.23	17	5
1:A:18:ASP:O	1:A:21:ASN:OD1	0.56	2.23	4	2
1:B:21:ASN:O	1:B:21:ASN:OD1	0.56	2.22	4	1
1:A:40:SER:OG	1:A:73:GLY:C	0.56	2.48	5	1
1:B:13:ILE:O	1:B:17:ASN:CB	0.56	2.53	25	5
1:B:32:ASN:OD1	1:B:34:ASN:OD1	0.56	2.24	11	1
1:A:56:ILE:C	1:A:57:PHE:HD2	0.56	2.07	23	3
1:A:82:LEU:HD13	1:A:84:ILE:HG23	0.56	1.75	13	1
1:B:21:ASN:OD1	1:B:27:LEU:O	0.56	2.23	13	1
1:A:53:ASN:ND2	1:A:67:ASN:ND2	0.56	2.52	15	1
1:B:42:ASN:ND2	1:B:42:ASN:C	0.56	2.64	16	1
1:B:23:GLY:N	1:B:49:TYR:CE2	0.56	2.74	21	1
1:B:85:LYS:O	1:B:86:GLY:O	0.56	2.22	22	1
1:B:23:GLY:C	1:B:46:GLY:H	0.56	2.08	23	1
1:B:14:ASN:N	1:B:14:ASN:ND2	0.56	2.53	11	4
1:A:46:GLY:O	1:A:49:TYR:O	0.56	2.23	22	4
1:B:45:TYR:CD1	1:B:47:ILE:CG2	0.56	2.86	21	1
1:A:27:LEU:HD21	1:A:29:LEU:HD11	0.56	1.76	12	6
1:A:49:TYR:CD1	1:A:49:TYR:N	0.56	2.73	2	4
1:B:13:ILE:H	1:B:13:ILE:CD1	0.56	2.11	13	4
1:B:27:LEU:HD21	1:B:29:LEU:HD11	0.56	1.76	12	6
1:B:18:ASP:O	1:B:21:ASN:OD1	0.56	2.23	4	2
1:B:24:LYS:H	1:B:24:LYS:HZ3	0.56	1.42	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:80:ASN:N	1:A:80:ASN:ND2	0.56	2.54	5	1
1:B:24:LYS:NZ	1:B:49:TYR:OH	0.56	2.26	25	2
1:B:42:ASN:O	1:B:43:ALA:C	0.56	2.47	18	5
1:A:54:TRP:CD1	1:A:54:TRP:N	0.56	2.72	7	2
1:A:59:ASN:C	1:A:59:ASN:HD22	0.56	2.07	23	3
1:A:42:ASN:ND2	1:A:42:ASN:C	0.56	2.64	16	1
1:A:79:ILE:O	1:A:80:ASN:C	0.56	2.49	1	15
1:A:56:ILE:HD11	1:A:66:PHE:HE2	0.56	1.59	14	4
1:A:93:GLN:O	1:A:94:ILE:O	0.56	2.23	17	4
1:A:52:LYS:O	1:A:68:GLU:CD	0.56	2.47	7	1
1:A:68:GLU:OE1	1:A:68:GLU:CA	0.56	2.54	7	1
1:A:89:ILE:HG13	1:B:89:ILE:HG13	0.56	1.77	25	5
1:A:70:SER:O	1:A:71:THR:C	0.56	2.47	23	17
1:B:79:ILE:O	1:B:80:ASN:C	0.56	2.49	1	14
1:B:54:TRP:CD1	1:B:68:GLU:CD	0.56	2.84	10	1
1:A:23:GLY:C	1:A:46:GLY:H	0.56	2.08	23	1
1:A:45:TYR:HB3	1:A:47:ILE:HD11	0.56	1.75	20	2
1:B:10:MET:O	1:B:10:MET:SD	0.56	2.64	18	2
1:B:57:PHE:CD2	1:B:62:LYS:HA	0.56	2.36	15	6
1:A:51:ASP:OD2	1:A:51:ASP:C	0.56	2.48	21	3
1:B:36:LEU:HD23	1:B:80:ASN:ND2	0.56	2.10	13	2
1:A:49:TYR:CD2	1:A:68:GLU:OE1	0.56	2.59	8	2
1:B:16:VAL:CG1	1:B:20:LEU:HD12	0.56	2.31	9	1
1:A:62:LYS:HZ2	1:A:64:TYR:H	0.56	1.42	1	1
1:A:57:PHE:CD2	1:A:62:LYS:HA	0.56	2.36	15	6
1:B:59:ASN:CB	1:B:88:TYR:CE1	0.56	2.89	5	4
1:A:24:LYS:CE	1:A:49:TYR:CE1	0.56	2.89	6	1
1:A:54:TRP:CD1	1:A:68:GLU:CD	0.56	2.84	10	1
1:B:26:LYS:HB2	1:B:26:LYS:HZ2	0.56	1.60	12	1
1:A:54:TRP:CG	1:A:66:PHE:CE2	0.56	2.94	19	1
1:A:23:GLY:N	1:A:49:TYR:CE2	0.56	2.74	21	1
1:A:13:ILE:HD13	1:A:14:ASN:N	0.56	2.15	4	2
1:B:49:TYR:CD2	1:B:68:GLU:OE1	0.56	2.59	8	1
1:A:32:ASN:O	1:A:35:GLN:N	0.55	2.34	22	8
1:A:64:TYR:CD1	1:A:79:ILE:HD12	0.55	2.37	14	12
1:B:24:LYS:H	1:B:24:LYS:HD2	0.55	1.62	2	3
1:A:10:MET:O	1:A:10:MET:SD	0.55	2.64	18	2
1:B:22:LYS:O	1:B:49:TYR:CB	0.55	2.54	5	1
1:B:81:LYS:CD	1:B:81:LYS:C	0.55	2.79	24	6
1:B:45:TYR:CB	1:B:47:ILE:HD11	0.55	2.31	20	1
1:B:64:TYR:CD1	1:B:79:ILE:HD12	0.55	2.36	14	12

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:10:MET:SD	1:B:10:MET:N	0.55	2.80	4	3
1:B:68:GLU:OE1	1:B:68:GLU:CA	0.55	2.54	7	1
1:A:26:LYS:HB2	1:A:26:LYS:HZ2	0.55	1.59	12	1
1:A:11:ASN:OD1	1:A:14:ASN:OD1	0.55	2.24	23	1
1:A:14:ASN:N	1:A:14:ASN:ND2	0.55	2.53	11	4
1:B:56:ILE:N	1:B:62:LYS:HZ1	0.55	1.99	3	1
1:A:81:LYS:O	1:A:81:LYS:CE	0.55	2.53	6	1
1:A:23:GLY:O	1:A:49:TYR:CE2	0.55	2.59	10	1
1:B:48:SER:OG	1:B:68:GLU:CG	0.55	2.54	10	1
1:B:24:LYS:CB	1:B:47:ILE:CD1	0.55	2.84	14	1
1:A:64:TYR:CZ	1:A:66:PHE:CE2	0.55	2.95	15	1
1:A:91:ILE:HG23	1:B:56:ILE:HA	0.55	1.78	10	3
1:B:81:LYS:C	1:B:83:ASN:H	0.55	2.09	10	3
1:B:56:ILE:O	1:B:57:PHE:CD1	0.55	2.60	18	1
1:B:58:VAL:HG13	1:B:59:ASN:OD1	0.55	2.02	20	1
1:B:10:MET:HE3	1:B:12:SER:OG	0.55	2.00	11	1
1:A:17:ASN:CG	1:A:29:LEU:O	0.55	2.50	13	1
1:B:46:GLY:O	1:B:68:GLU:O	0.55	2.24	13	2
1:A:17:ASN:HD21	1:A:29:LEU:HD21	0.55	1.60	15	1
1:B:34:ASN:ND2	1:B:86:GLY:C	0.55	2.65	20	1
1:A:11:ASN:O	1:A:11:ASN:ND2	0.55	2.39	1	3
1:A:16:VAL:HG11	1:B:91:ILE:HD11	0.55	1.79	2	1
1:B:75:ILE:C	1:B:77:ASN:H	0.55	2.07	24	11
1:A:22:LYS:O	1:A:49:TYR:CB	0.55	2.54	5	1
1:B:24:LYS:HZ3	1:B:46:GLY:HA2	0.55	1.61	8	1
1:A:48:SER:OG	1:A:68:GLU:CG	0.55	2.54	10	1
1:A:46:GLY:H	1:A:47:ILE:CD1	0.55	2.15	13	1
1:A:58:VAL:HG13	1:A:59:ASN:OD1	0.55	2.02	20	1
1:A:76:SER:OG	1:A:80:ASN:ND2	0.55	2.39	22	2
1:B:76:SER:OG	1:B:80:ASN:ND2	0.55	2.39	22	2
1:B:30:SER:HB3	1:B:37:LYS:HZ3	0.55	1.61	23	1
1:B:29:LEU:N	1:B:29:LEU:CD2	0.55	2.57	8	16
1:A:59:ASN:CB	1:A:88:TYR:CE1	0.55	2.89	5	4
1:A:81:LYS:CD	1:A:81:LYS:C	0.55	2.79	24	6
1:B:24:LYS:CE	1:B:49:TYR:CE1	0.55	2.89	6	1
1:B:12:SER:OG	1:B:86:GLY:O	0.55	2.20	8	1
1:A:82:LEU:HD11	1:A:84:ILE:HG23	0.55	1.78	20	3
1:B:54:TRP:CG	1:B:66:PHE:CE2	0.55	2.94	19	1
1:A:26:LYS:O	1:A:26:LYS:CG	0.55	2.55	13	4
1:B:17:ASN:CG	1:B:29:LEU:O	0.55	2.50	13	1
1:A:24:LYS:CB	1:A:47:ILE:CD1	0.55	2.84	14	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:17:ASN:HD21	1:B:29:LEU:HD21	0.55	1.60	15	1
1:A:18:ASP:C	1:A:21:ASN:OD1	0.55	2.50	19	1
1:B:18:ASP:C	1:B:21:ASN:OD1	0.55	2.50	19	1
1:A:45:TYR:CD1	1:A:47:ILE:CG2	0.55	2.86	21	1
1:A:36:LEU:O	1:A:80:ASN:OD1	0.55	2.24	15	2
1:A:32:ASN:OD1	1:A:34:ASN:OD1	0.55	2.24	11	1
1:A:26:LYS:O	1:A:40:SER:HA	0.55	2.02	23	10
1:A:29:LEU:HA	1:A:38:ALA:HB2	0.55	1.79	5	24
1:A:36:LEU:C	1:A:37:LYS:CG	0.55	2.80	12	22
1:B:10:MET:O	1:B:13:ILE:N	0.55	2.40	9	8
1:A:88:TYR:O	1:B:89:ILE:CG2	0.55	2.55	18	9
1:B:12:SER:C	1:B:14:ASN:H	0.55	2.10	14	5
1:A:49:TYR:N	1:A:49:TYR:CD2	0.55	2.74	8	3
1:A:47:ILE:CD1	1:A:47:ILE:N	0.55	2.69	9	4
1:B:26:LYS:C	1:B:40:SER:HG	0.55	2.06	12	1
1:A:66:PHE:CD1	1:A:66:PHE:N	0.55	2.75	18	4
1:A:45:TYR:CB	1:A:47:ILE:HD11	0.55	2.32	20	1
1:B:36:LEU:C	1:B:37:LYS:CG	0.54	2.80	12	22
1:B:93:GLN:NE2	1:B:93:GLN:N	0.54	2.52	20	16
1:B:22:LYS:O	1:B:48:SER:CB	0.54	2.55	13	1
1:B:64:TYR:CZ	1:B:66:PHE:CE2	0.54	2.95	15	1
1:B:48:SER:OG	1:B:49:TYR:CZ	0.54	2.60	24	1
1:B:11:ASN:ND2	1:B:11:ASN:O	0.54	2.40	1	3
1:A:24:LYS:H	1:A:24:LYS:HD2	0.54	1.62	2	3
1:B:50:GLU:HB2	1:B:52:LYS:HZ3	0.54	1.60	6	1
1:B:36:LEU:O	1:B:80:ASN:OD1	0.54	2.24	15	2
1:B:23:GLY:O	1:B:49:TYR:CE2	0.54	2.59	10	1
1:A:46:GLY:O	1:A:68:GLU:O	0.54	2.24	13	2
1:A:91:ILE:HD11	1:B:16:VAL:HG11	0.54	1.78	2	1
1:A:52:LYS:CB	1:B:94:ILE:HG21	0.54	2.32	10	1
1:B:82:LEU:HD11	1:B:84:ILE:HG23	0.54	1.78	20	3
1:A:56:ILE:O	1:A:57:PHE:CD1	0.54	2.60	18	1
1:A:70:SER:O	1:A:71:THR:OG1	0.54	2.25	24	1
1:B:70:SER:O	1:B:71:THR:OG1	0.54	2.25	24	1
1:B:70:SER:HG	1:B:75:ILE:HD11	0.54	1.61	17	8
1:A:78:ASP:O	1:A:81:LYS:N	0.54	2.36	15	8
1:A:36:LEU:HD23	1:A:80:ASN:ND2	0.54	2.10	13	2
1:B:47:ILE:CG2	1:B:68:GLU:C	0.54	2.81	10	1
1:A:69:LYS:NZ	1:A:69:LYS:CB	0.54	2.71	11	1
1:A:22:LYS:O	1:A:48:SER:CB	0.54	2.55	13	1
1:A:84:ILE:HD13	1:A:84:ILE:H	0.54	1.62	19	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:84:ILE:HD13	1:B:84:ILE:H	0.54	1.62	19	3
1:A:80:ASN:HD22	1:A:80:ASN:C	0.54	2.08	4	2
1:B:24:LYS:N	1:B:24:LYS:HZ3	0.54	1.99	4	1
1:A:16:VAL:CG1	1:A:20:LEU:HD12	0.54	2.31	9	1
1:A:34:ASN:ND2	1:A:86:GLY:C	0.54	2.65	20	1
1:A:94:ILE:CG2	1:B:53:ASN:O	0.54	2.56	16	13
1:B:78:ASP:O	1:B:79:ILE:C	0.54	2.51	23	19
1:A:56:ILE:HD11	1:A:66:PHE:HE1	0.54	1.62	17	3
1:A:16:VAL:O	1:A:17:ASN:C	0.54	2.49	8	20
1:A:57:PHE:CE2	1:A:62:LYS:HD2	0.54	2.37	12	10
1:B:26:LYS:O	1:B:40:SER:HA	0.54	2.02	23	10
1:B:57:PHE:CE2	1:B:62:LYS:HD2	0.54	2.37	12	10
1:A:89:ILE:CG2	1:B:88:TYR:O	0.54	2.56	18	9
1:B:93:GLN:H	1:B:93:GLN:HE21	0.54	1.44	6	6
1:B:10:MET:CE	1:B:86:GLY:O	0.54	2.52	9	1
1:A:47:ILE:CG2	1:A:68:GLU:C	0.54	2.81	10	1
1:B:69:LYS:NZ	1:B:69:LYS:CB	0.54	2.71	11	1
1:A:48:SER:C	1:A:49:TYR:CD1	0.54	2.86	21	2
1:A:56:ILE:HD13	1:A:64:TYR:CD1	0.54	2.38	1	1
1:B:26:LYS:N	1:B:26:LYS:HD2	0.54	2.17	1	3
1:B:66:PHE:CD2	1:B:72:VAL:CG1	0.54	2.91	5	9
1:B:83:ASN:OD1	1:B:83:ASN:C	0.54	2.51	5	2
1:B:56:ILE:HD11	1:B:66:PHE:HE1	0.54	1.61	6	3
1:B:46:GLY:H	1:B:47:ILE:CD1	0.54	2.15	13	1
1:A:66:PHE:CD2	1:A:72:VAL:CG1	0.54	2.91	5	9
1:B:24:LYS:N	1:B:24:LYS:HD2	0.54	2.18	16	4
1:B:59:ASN:HB3	1:B:88:TYR:CD2	0.54	2.38	14	8
1:B:23:GLY:CA	1:B:49:TYR:OH	0.54	2.56	14	1
1:B:59:ASN:ND2	1:B:61:GLU:OE2	0.54	2.41	15	2
1:B:79:ILE:O	1:B:84:ILE:CD1	0.54	2.56	23	1
1:A:10:MET:O	1:A:11:ASN:C	0.54	2.51	9	18
1:A:78:ASP:O	1:A:79:ILE:C	0.54	2.51	23	20
1:A:93:GLN:H	1:A:93:GLN:HE21	0.54	1.46	5	6
1:A:21:ASN:CG	1:A:27:LEU:O	0.54	2.50	13	1
1:B:36:LEU:HD23	1:B:80:ASN:OD1	0.54	2.03	25	2
1:B:11:ASN:OD1	1:B:14:ASN:OD1	0.54	2.24	23	1
1:B:27:LEU:CD1	1:B:38:ALA:HB1	0.53	2.33	1	18
1:A:23:GLY:C	1:A:24:LYS:HZ3	0.53	2.09	8	1
1:B:34:ASN:CG	1:B:84:ILE:O	0.53	2.51	20	2
1:A:47:ILE:HD12	1:A:48:SER:H	0.53	1.62	10	1
1:A:81:LYS:C	1:A:83:ASN:H	0.53	2.09	10	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:20:LEU:CD2	1:A:54:TRP:CD2	0.53	2.91	11	1
1:A:48:SER:OG	1:A:49:TYR:CZ	0.53	2.60	24	1
1:B:56:ILE:O	1:B:57:PHE:HD2	0.53	1.86	15	1
1:B:43:ALA:O	1:B:71:THR:OG1	0.53	2.27	22	1
1:B:16:VAL:O	1:B:17:ASN:C	0.53	2.49	8	20
1:B:20:LEU:CD2	1:B:54:TRP:CD2	0.53	2.91	11	1
1:A:36:LEU:HD23	1:A:80:ASN:OD1	0.53	2.04	25	2
1:B:29:LEU:HA	1:B:38:ALA:HB2	0.53	1.78	5	24
1:A:58:VAL:HG23	1:A:85:LYS:HD3	0.53	1.81	3	1
1:A:24:LYS:HE3	1:A:47:ILE:N	0.53	2.19	14	1
1:A:56:ILE:O	1:A:57:PHE:HD2	0.53	1.86	15	1
1:A:23:GLY:CA	1:A:49:TYR:OH	0.53	2.56	14	1
1:A:89:ILE:C	1:A:90:GLU:CG	0.53	2.81	17	2
1:B:34:ASN:OD1	1:B:85:LYS:CA	0.53	2.56	21	1
1:A:79:ILE:O	1:A:84:ILE:CD1	0.53	2.56	23	1
1:A:27:LEU:CD1	1:A:38:ALA:HB1	0.53	2.33	1	18
1:B:56:ILE:HD13	1:B:64:TYR:CD1	0.53	2.38	1	1
1:A:53:ASN:O	1:B:94:ILE:CG2	0.53	2.57	17	13
1:B:66:PHE:CD1	1:B:72:VAL:CG1	0.53	2.92	25	7
1:A:56:ILE:CG2	1:A:63:VAL:CG1	0.53	2.86	5	5
1:B:33:GLY:C	1:B:34:ASN:CG	0.53	2.76	5	1
1:A:54:TRP:CH2	1:B:93:GLN:CB	0.53	2.91	18	4
1:A:88:TYR:OH	1:B:12:SER:OG	0.53	2.26	25	1
1:A:65:THR:O	1:A:65:THR:HG23	0.53	2.04	11	8
1:A:66:PHE:CD1	1:A:72:VAL:CG1	0.53	2.92	25	7
1:B:71:THR:C	1:B:73:GLY:N	0.53	2.67	11	8
1:B:12:SER:O	1:B:13:ILE:C	0.53	2.52	5	1
1:B:67:ASN:C	1:B:69:LYS:N	0.53	2.65	10	3
1:A:59:ASN:ND2	1:A:61:GLU:OE2	0.53	2.41	15	2
1:A:67:ASN:O	1:A:68:GLU:C	0.53	2.52	18	1
1:A:34:ASN:CG	1:A:84:ILE:O	0.53	2.52	25	2
1:A:43:ALA:O	1:A:71:THR:OG1	0.53	2.27	22	1
1:B:34:ASN:N	1:B:34:ASN:OD1	0.53	2.40	22	1
1:A:26:LYS:N	1:A:26:LYS:HD2	0.53	2.17	1	3
1:A:45:TYR:O	1:A:45:TYR:CG	0.53	2.62	19	5
1:A:67:ASN:O	1:A:69:LYS:N	0.53	2.42	10	3
1:B:67:ASN:O	1:B:69:LYS:N	0.53	2.42	10	3
1:B:27:LEU:HD12	1:B:39:THR:O	0.53	2.04	21	4
1:B:48:SER:C	1:B:49:TYR:CD1	0.53	2.86	21	2
1:A:10:MET:O	1:A:13:ILE:N	0.53	2.40	9	8
1:A:12:SER:C	1:A:14:ASN:H	0.53	2.10	14	5

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:27:LEU:HD12	1:A:39:THR:O	0.53	2.04	17	4
1:A:24:LYS:N	1:A:24:LYS:HD2	0.52	2.18	16	4
1:A:59:ASN:HB3	1:A:88:TYR:CD2	0.52	2.39	11	8
1:B:34:ASN:ND2	1:B:34:ASN:N	0.52	2.57	4	2
1:A:80:ASN:ND2	1:A:80:ASN:H	0.52	2.00	5	1
1:B:21:ASN:O	1:B:22:LYS:C	0.52	2.51	10	3
1:B:47:ILE:HD12	1:B:48:SER:H	0.52	1.62	10	1
1:A:88:TYR:CE1	1:A:90:GLU:HG2	0.52	2.39	11	1
1:A:34:ASN:OD1	1:A:85:LYS:CA	0.52	2.56	21	1
1:B:65:THR:O	1:B:65:THR:HG23	0.52	2.04	1	8
1:A:34:ASN:N	1:A:34:ASN:ND2	0.52	2.57	4	1
1:A:59:ASN:HB3	1:A:88:TYR:CE2	0.52	2.39	19	3
1:A:21:ASN:O	1:A:22:LYS:C	0.52	2.51	10	3
1:A:33:GLY:C	1:A:34:ASN:CG	0.52	2.76	5	1
1:B:56:ILE:CG2	1:B:63:VAL:CG1	0.52	2.86	5	5
1:B:80:ASN:ND2	1:B:80:ASN:H	0.52	2.00	5	1
1:B:64:TYR:CE2	1:B:79:ILE:HD11	0.52	2.39	25	8
1:B:24:LYS:HE3	1:B:47:ILE:N	0.52	2.19	14	1
1:B:10:MET:O	1:B:11:ASN:C	0.52	2.53	1	19
1:B:47:ILE:CD1	1:B:47:ILE:N	0.52	2.69	9	3
1:B:55:GLY:C	1:B:57:PHE:CE1	0.52	2.88	21	11
1:B:23:GLY:C	1:B:46:GLY:CA	0.52	2.82	4	2
1:B:59:ASN:HB3	1:B:88:TYR:CE2	0.52	2.39	19	3
1:B:34:ASN:HB3	1:B:85:LYS:C	0.52	2.29	25	2
1:B:20:LEU:CD2	1:B:66:PHE:CZ	0.52	2.92	1	6
1:B:58:VAL:HG22	1:B:59:ASN:N	0.52	2.20	19	8
1:B:21:ASN:CG	1:B:27:LEU:O	0.52	2.50	13	1
1:A:47:ILE:C	1:A:48:SER:OG	0.52	2.53	24	1
1:B:67:ASN:CG	1:B:69:LYS:H	0.52	2.11	24	1
1:A:36:LEU:CD1	1:A:37:LYS:N	0.52	2.71	15	9
1:A:55:GLY:C	1:A:57:PHE:CE1	0.52	2.87	10	11
1:A:94:ILE:CG2	1:B:68:GLU:OE1	0.52	2.58	3	1
1:A:23:GLY:C	1:A:46:GLY:CA	0.52	2.82	4	2
1:B:11:ASN:O	1:B:13:ILE:CD1	0.52	2.58	4	2
1:B:24:LYS:HZ2	1:B:24:LYS:HA	0.52	1.64	4	1
1:A:34:ASN:HB3	1:A:85:LYS:C	0.52	2.30	25	2
1:B:58:VAL:HG12	1:B:61:GLU:O	0.52	2.04	14	1
1:B:89:ILE:C	1:B:90:GLU:CG	0.52	2.82	23	2
1:B:88:TYR:OH	1:B:90:GLU:OE2	0.52	2.27	19	1
1:B:47:ILE:CG1	1:B:48:SER:H	0.52	2.17	21	1
1:A:85:LYS:HZ3	1:A:85:LYS:HB2	0.52	1.65	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:10:MET:SD	1:A:12:SER:CB	0.52	2.97	6	1
1:B:50:GLU:C	1:B:51:ASP:OD1	0.52	2.53	7	1
1:A:53:ASN:ND2	1:A:53:ASN:N	0.52	2.49	10	1
1:A:94:ILE:HG21	1:B:52:LYS:CB	0.52	2.34	10	2
1:B:51:ASP:OD1	1:B:51:ASP:C	0.52	2.53	13	1
1:A:88:TYR:CD2	1:A:89:ILE:N	0.52	2.78	20	2
1:B:88:TYR:CD2	1:B:89:ILE:N	0.52	2.78	20	2
1:A:52:LYS:H	1:A:68:GLU:CG	0.52	2.17	23	1
1:A:67:ASN:CG	1:A:69:LYS:H	0.52	2.11	24	1
1:B:36:LEU:CD1	1:B:37:LYS:N	0.52	2.72	10	10
1:B:47:ILE:HD12	1:B:69:LYS:HA	0.52	1.81	4	1
1:A:59:ASN:HB2	1:A:88:TYR:CE2	0.52	2.40	17	6
1:B:10:MET:SD	1:B:12:SER:CB	0.52	2.97	6	1
1:A:64:TYR:CD2	1:A:79:ILE:HD12	0.52	2.40	21	8
1:A:68:GLU:OE1	1:B:94:ILE:CG2	0.52	2.58	3	1
1:A:50:GLU:C	1:A:51:ASP:OD1	0.52	2.53	7	1
1:A:34:ASN:OD1	1:A:34:ASN:O	0.52	2.28	20	1
1:B:52:LYS:H	1:B:68:GLU:CG	0.52	2.17	23	1
1:A:88:TYR:CZ	1:A:90:GLU:HG3	0.52	2.40	22	11
1:B:88:TYR:CZ	1:B:90:GLU:HG3	0.52	2.40	22	12
1:B:67:ASN:ND2	1:B:68:GLU:H	0.52	2.03	24	2
1:B:13:ILE:HD13	1:B:14:ASN:ND2	0.52	2.20	16	4
1:B:46:GLY:C	1:B:47:ILE:HD12	0.52	2.30	13	1
1:B:80:ASN:OD1	1:B:80:ASN:C	0.52	2.53	17	2
1:A:88:TYR:OH	1:A:90:GLU:OE2	0.52	2.27	19	1
1:A:20:LEU:CD2	1:A:66:PHE:CZ	0.52	2.92	1	6
1:A:51:ASP:CG	1:A:67:ASN:ND2	0.52	2.68	2	1
1:A:64:TYR:CD1	1:A:79:ILE:CD1	0.52	2.93	14	7
1:B:58:VAL:HG23	1:B:85:LYS:HD3	0.52	1.81	3	1
1:A:17:ASN:ND2	1:A:29:LEU:HG	0.52	2.20	15	3
1:A:24:LYS:HZ2	1:A:46:GLY:HA2	0.52	1.64	8	1
1:B:57:PHE:CE1	1:B:62:LYS:HD2	0.52	2.40	9	3
1:A:26:LYS:HZ2	1:A:26:LYS:CB	0.52	2.18	12	1
1:B:40:SER:OG	1:B:43:ALA:HB3	0.52	2.05	20	1
1:B:20:LEU:CD1	1:B:54:TRP:CZ3	0.52	2.93	25	1
1:A:56:ILE:CD1	1:A:66:PHE:CE1	0.51	2.93	18	4
1:B:78:ASP:O	1:B:81:LYS:CB	0.51	2.58	21	13
1:A:11:ASN:O	1:A:13:ILE:CD1	0.51	2.58	4	2
1:A:21:ASN:C	1:A:23:GLY:N	0.51	2.68	5	1
1:A:67:ASN:ND2	1:A:68:GLU:H	0.51	2.03	24	2
1:A:64:TYR:CE2	1:A:79:ILE:HD11	0.51	2.39	25	8

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:45:TYR:CG	1:A:47:ILE:HD12	0.51	2.41	21	1
1:A:71:THR:C	1:A:73:GLY:N	0.51	2.67	11	8
1:B:51:ASP:CG	1:B:67:ASN:ND2	0.51	2.68	2	1
1:B:64:TYR:CD1	1:B:79:ILE:CD1	0.51	2.93	14	7
1:A:13:ILE:HD12	1:A:13:ILE:N	0.51	2.21	18	2
1:A:12:SER:O	1:A:13:ILE:C	0.51	2.52	5	1
1:B:64:TYR:OH	1:B:75:ILE:HG22	0.51	2.05	13	5
1:B:34:ASN:O	1:B:83:ASN:OD1	0.51	2.28	11	1
1:A:49:TYR:CB	1:A:68:GLU:OE2	0.51	2.59	21	2
1:B:45:TYR:O	1:B:45:TYR:CD2	0.51	2.64	12	2
1:B:21:ASN:C	1:B:23:GLY:N	0.51	2.68	5	2
1:A:10:MET:SD	1:A:10:MET:N	0.51	2.83	16	3
1:B:17:ASN:ND2	1:B:29:LEU:HG	0.51	2.20	15	3
1:B:59:ASN:HB3	1:B:88:TYR:CE1	0.51	2.40	9	6
1:A:34:ASN:O	1:A:83:ASN:OD1	0.51	2.28	11	1
1:A:46:GLY:C	1:A:47:ILE:HD12	0.51	2.30	13	1
1:B:32:ASN:C	1:B:34:ASN:N	0.51	2.68	20	1
1:B:34:ASN:OD1	1:B:34:ASN:O	0.51	2.28	20	1
1:A:56:ILE:HG22	1:A:63:VAL:HG11	0.51	1.82	1	11
1:B:70:SER:C	1:B:71:THR:CG2	0.51	2.83	22	10
1:A:58:VAL:HG12	1:A:61:GLU:O	0.51	2.04	14	1
1:A:80:ASN:OD1	1:A:80:ASN:C	0.51	2.53	17	2
1:A:47:ILE:CG1	1:A:48:SER:H	0.51	2.17	21	1
1:B:42:ASN:O	1:B:42:ASN:OD1	0.51	2.28	25	1
1:A:45:TYR:O	1:A:45:TYR:CD2	0.51	2.64	12	2
1:B:56:ILE:CD1	1:B:66:PHE:CE1	0.51	2.93	18	4
1:A:47:ILE:HD12	1:A:69:LYS:HA	0.51	1.81	4	1
1:B:13:ILE:CD1	1:B:13:ILE:H	0.51	2.18	23	7
1:A:13:ILE:HD13	1:A:14:ASN:ND2	0.51	2.20	16	4
1:A:20:LEU:CD1	1:A:54:TRP:CZ3	0.51	2.93	25	1
1:B:56:ILE:N	1:B:56:ILE:CD1	0.51	2.69	2	15
1:B:59:ASN:HB2	1:B:88:TYR:CE2	0.51	2.40	17	6
1:B:59:ASN:C	1:B:90:GLU:OE2	0.51	2.54	23	2
1:B:79:ILE:HG22	1:B:84:ILE:HD11	0.51	1.83	23	1
1:A:66:PHE:HD2	1:A:66:PHE:H	0.51	1.48	7	5
1:A:64:TYR:OH	1:A:75:ILE:HG22	0.51	2.05	13	4
1:B:49:TYR:CB	1:B:68:GLU:OE2	0.51	2.59	21	2
1:A:42:ASN:O	1:A:42:ASN:OD1	0.51	2.28	25	1
1:A:65:THR:O	1:A:65:THR:CG2	0.51	2.58	20	7
1:A:70:SER:C	1:A:71:THR:CG2	0.51	2.83	22	10
1:B:64:TYR:CD2	1:B:79:ILE:HD12	0.51	2.40	21	8

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:77:ASN:CG	1:B:78:ASP:H	0.51	2.14	16	9
1:A:44:GLY:C	1:A:71:THR:HG21	0.51	2.31	16	2
1:A:34:ASN:OD1	1:A:34:ASN:N	0.51	2.40	15	2
1:A:65:THR:HG23	1:A:65:THR:O	0.51	2.04	1	1
1:B:26:LYS:CE	1:B:43:ALA:HB3	0.51	2.35	7	4
1:B:56:ILE:HG22	1:B:63:VAL:HG11	0.51	1.82	14	8
1:A:49:TYR:CB	1:A:52:LYS:NZ	0.51	2.74	3	1
1:A:67:ASN:C	1:A:69:LYS:N	0.51	2.65	10	3
1:A:88:TYR:CD1	1:A:89:ILE:N	0.51	2.79	23	3
1:B:23:GLY:CA	1:B:46:GLY:H	0.51	2.19	15	1
1:B:67:ASN:O	1:B:68:GLU:C	0.51	2.52	18	1
1:A:46:GLY:C	1:A:68:GLU:O	0.51	2.54	20	1
1:B:47:ILE:C	1:B:48:SER:OG	0.51	2.53	24	1
1:B:27:LEU:CG	1:B:29:LEU:HD11	0.51	2.36	18	11
1:A:57:PHE:O	1:B:90:GLU:O	0.51	2.29	2	4
1:A:78:ASP:O	1:A:81:LYS:CB	0.51	2.58	10	12
1:A:58:VAL:HG22	1:A:59:ASN:N	0.51	2.20	19	7
1:B:15:SER:O	1:B:16:VAL:C	0.51	2.54	13	1
1:A:26:LYS:CE	1:A:43:ALA:HB3	0.50	2.35	24	4
1:B:85:LYS:HZ3	1:B:85:LYS:HB2	0.50	1.65	1	1
1:A:36:LEU:HB3	1:A:84:ILE:HD13	0.50	1.82	6	1
1:A:84:ILE:H	1:A:84:ILE:CD1	0.50	2.19	19	2
1:A:83:ASN:O	1:A:84:ILE:C	0.50	2.54	23	4
1:A:57:PHE:CE1	1:A:62:LYS:HD2	0.50	2.41	9	3
1:B:88:TYR:CE1	1:B:90:GLU:HG2	0.50	2.39	11	1
1:B:29:LEU:CD2	1:B:29:LEU:N	0.50	2.66	17	1
1:B:49:TYR:C	1:B:68:GLU:OE2	0.50	2.55	21	1
1:A:27:LEU:CG	1:A:29:LEU:HD11	0.50	2.37	18	11
1:B:34:ASN:O	1:B:84:ILE:C	0.50	2.55	3	4
1:B:21:ASN:O	1:B:23:GLY:N	0.50	2.45	5	1
1:B:23:GLY:H	1:B:24:LYS:HZ1	0.50	1.47	6	1
1:B:36:LEU:HB3	1:B:84:ILE:HD13	0.50	1.82	6	1
1:A:21:ASN:O	1:A:22:LYS:CB	0.50	2.59	7	2
1:B:21:ASN:O	1:B:22:LYS:CB	0.50	2.59	7	2
1:A:10:MET:CE	1:A:86:GLY:O	0.50	2.52	9	1
1:B:88:TYR:CD1	1:B:89:ILE:N	0.50	2.79	23	3
1:A:32:ASN:C	1:A:34:ASN:N	0.50	2.68	20	1
1:A:34:ASN:CB	1:A:84:ILE:O	0.50	2.60	1	1
1:A:29:LEU:CD2	1:A:29:LEU:N	0.50	2.64	2	1
1:B:59:ASN:OD1	1:B:61:GLU:OE1	0.50	2.29	2	1
1:B:69:LYS:O	1:B:71:THR:CG2	0.50	2.59	14	11

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:90:GLU:C	1:B:91:ILE:CD1	0.50	2.83	3	1
1:A:59:ASN:HB3	1:A:88:TYR:CE1	0.50	2.42	5	6
1:B:41:SER:O	1:B:42:ASN:CB	0.50	2.59	18	3
1:B:44:GLY:C	1:B:71:THR:HG21	0.50	2.31	16	2
1:A:21:ASN:O	1:A:24:LYS:NZ	0.50	2.44	12	1
1:A:24:LYS:CG	1:A:47:ILE:HD12	0.50	2.37	14	1
1:A:49:TYR:C	1:A:68:GLU:OE2	0.50	2.55	21	1
1:A:10:MET:SD	1:B:89:ILE:HD13	0.50	2.46	25	1
1:B:20:LEU:HD12	1:B:54:TRP:CZ3	0.50	2.42	25	1
1:B:51:ASP:OD1	1:B:67:ASN:OD1	0.50	2.30	17	3
1:A:64:TYR:CD2	1:A:79:ILE:CD1	0.50	2.95	18	3
1:A:23:GLY:CA	1:A:46:GLY:H	0.50	2.19	15	1
1:A:40:SER:OG	1:A:43:ALA:HB3	0.50	2.05	20	1
1:B:24:LYS:CE	1:B:48:SER:HA	0.50	2.36	21	1
1:B:45:TYR:CG	1:B:47:ILE:HD12	0.50	2.41	21	1
1:A:51:ASP:OD1	1:A:67:ASN:OD1	0.50	2.30	17	3
1:A:77:ASN:CG	1:A:78:ASP:H	0.50	2.14	22	9
1:A:93:GLN:O	1:A:93:GLN:CG	0.50	2.60	2	13
1:B:34:ASN:CB	1:B:84:ILE:O	0.50	2.60	1	1
1:B:84:ILE:H	1:B:84:ILE:CD1	0.50	2.19	19	3
1:A:10:MET:O	1:A:13:ILE:HD12	0.50	2.05	9	1
1:B:21:ASN:HA	1:B:24:LYS:NZ	0.50	2.22	21	1
1:A:59:ASN:C	1:A:90:GLU:OE2	0.50	2.54	23	2
1:B:45:TYR:O	1:B:45:TYR:CG	0.50	2.62	19	5
1:B:93:GLN:O	1:B:93:GLN:CG	0.50	2.59	8	13
1:B:10:MET:SD	1:B:12:SER:N	0.50	2.83	11	1
1:A:56:ILE:HG23	1:B:91:ILE:HG22	0.50	1.83	20	1
1:A:45:TYR:CD1	1:A:47:ILE:HG13	0.50	2.42	24	1
1:B:72:VAL:HA	1:B:75:ILE:HD12	0.50	1.84	11	13
1:A:59:ASN:OD1	1:A:61:GLU:OE1	0.50	2.29	2	1
1:B:57:PHE:CE2	1:B:62:LYS:HD3	0.50	2.40	15	7
1:A:69:LYS:O	1:A:71:THR:CG2	0.50	2.59	14	11
1:B:64:TYR:OH	1:B:75:ILE:HB	0.50	2.07	14	7
1:B:83:ASN:O	1:B:84:ILE:C	0.50	2.54	23	4
1:B:40:SER:OG	1:B:41:SER:N	0.50	2.43	11	1
1:A:15:SER:O	1:A:16:VAL:C	0.50	2.54	13	1
1:B:46:GLY:C	1:B:68:GLU:O	0.50	2.54	20	1
1:B:66:PHE:N	1:B:66:PHE:HD2	0.50	2.04	14	3
1:A:13:ILE:CD1	1:A:13:ILE:H	0.50	2.19	25	4
1:A:70:SER:O	1:A:71:THR:CG2	0.50	2.60	10	1
1:B:26:LYS:HZ2	1:B:26:LYS:CB	0.50	2.20	12	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:64:TYR:OH	1:A:75:ILE:HG21	0.50	2.07	17	10
1:A:58:VAL:HG21	1:A:85:LYS:HB2	0.50	1.83	18	2
1:A:93:GLN:CD	1:A:93:GLN:O	0.50	2.55	18	12
1:A:41:SER:O	1:A:42:ASN:CB	0.50	2.59	18	3
1:A:54:TRP:NE1	1:A:68:GLU:CD	0.50	2.70	10	1
1:A:24:LYS:CG	1:A:48:SER:H	0.50	2.20	20	1
1:B:17:ASN:C	1:B:17:ASN:ND2	0.50	2.70	20	1
1:A:13:ILE:O	1:A:17:ASN:N	0.50	2.40	22	1
1:A:79:ILE:HG22	1:A:84:ILE:HD11	0.50	1.83	23	1
1:B:89:ILE:C	1:B:90:GLU:OE2	0.50	2.55	23	1
1:A:20:LEU:HD12	1:A:54:TRP:CZ3	0.50	2.42	25	1
1:A:89:ILE:HD13	1:B:10:MET:SD	0.50	2.46	25	1
1:B:24:LYS:N	1:B:24:LYS:HD3	0.49	2.23	12	5
1:A:44:GLY:O	1:A:71:THR:HG21	0.49	2.07	16	4
1:B:10:MET:O	1:B:13:ILE:HD12	0.49	2.05	9	1
1:A:52:LYS:H	1:A:68:GLU:HB2	0.49	1.67	10	1
1:A:24:LYS:HG3	1:A:47:ILE:HD12	0.49	1.84	14	1
1:B:24:LYS:CG	1:B:48:SER:H	0.49	2.20	20	1
1:A:51:ASP:OD2	1:A:51:ASP:O	0.49	2.29	21	1
1:B:59:ASN:HB3	1:B:88:TYR:CD1	0.49	2.43	5	7
1:A:16:VAL:O	1:A:20:LEU:N	0.49	2.45	15	3
1:A:64:TYR:OH	1:A:75:ILE:HB	0.49	2.07	14	8
1:B:47:ILE:CD1	1:B:47:ILE:H	0.49	2.18	14	3
1:B:24:LYS:CG	1:B:47:ILE:HD12	0.49	2.37	14	1
1:B:53:ASN:HD22	1:B:67:ASN:CG	0.49	2.15	15	1
1:A:24:LYS:HG2	1:A:48:SER:H	0.49	1.67	20	1
1:A:21:ASN:HA	1:A:24:LYS:NZ	0.49	2.22	21	1
1:A:62:LYS:HZ2	1:A:65:THR:CB	0.49	2.20	24	1
1:A:57:PHE:CE2	1:A:62:LYS:HD3	0.49	2.40	15	7
1:A:58:VAL:HG21	1:A:85:LYS:CG	0.49	2.37	14	4
1:A:91:ILE:HG13	1:B:16:VAL:HG11	0.49	1.84	6	1
1:A:10:MET:SD	1:A:12:SER:N	0.49	2.83	11	1
1:A:23:GLY:HA2	1:A:46:GLY:CA	0.49	2.38	15	1
1:B:80:ASN:HD22	1:B:80:ASN:C	0.49	2.10	16	2
1:A:42:ASN:O	1:A:45:TYR:CB	0.49	2.60	18	1
1:A:24:LYS:CE	1:A:48:SER:HA	0.49	2.36	21	1
1:B:45:TYR:CD1	1:B:47:ILE:HG13	0.49	2.42	24	1
1:B:58:VAL:HG21	1:B:85:LYS:HB2	0.49	1.83	2	2
1:B:93:GLN:C	1:B:94:ILE:CG1	0.49	2.85	7	3
1:B:58:VAL:HG21	1:B:85:LYS:CG	0.49	2.37	14	4
1:B:44:GLY:O	1:B:71:THR:HG21	0.49	2.07	16	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:11:ASN:ND2	1:A:14:ASN:OD1	0.49	2.45	17	1
1:A:93:GLN:CB	1:B:54:TRP:CH2	0.49	2.95	18	3
1:B:70:SER:HB3	1:B:75:ILE:HD11	0.49	1.82	18	1
1:A:24:LYS:N	1:A:46:GLY:HA3	0.49	2.23	5	1
1:A:47:ILE:CD1	1:A:47:ILE:H	0.49	2.18	14	3
1:B:21:ASN:O	1:B:24:LYS:NZ	0.49	2.44	12	1
1:A:23:GLY:CA	1:A:46:GLY:N	0.49	2.76	15	1
1:B:24:LYS:HG2	1:B:48:SER:H	0.49	1.67	20	1
1:A:82:LEU:O	1:A:83:ASN:ND2	0.49	2.46	22	1
1:A:59:ASN:HB3	1:A:88:TYR:CD1	0.49	2.42	5	7
1:A:13:ILE:HD12	1:A:14:ASN:N	0.49	2.22	9	1
1:A:59:ASN:CB	1:A:88:TYR:CD2	0.49	2.96	11	4
1:A:59:ASN:CB	1:A:90:GLU:OE2	0.49	2.61	13	2
1:A:56:ILE:CD1	1:A:64:TYR:O	0.49	2.61	21	2
1:A:89:ILE:C	1:A:90:GLU:OE2	0.49	2.55	23	1
1:B:59:ASN:HB2	1:B:88:TYR:CD2	0.49	2.43	23	2
1:A:10:MET:O	1:A:13:ILE:HG12	0.49	2.08	7	5
1:A:93:GLN:C	1:A:94:ILE:CG1	0.49	2.85	7	3
1:A:21:ASN:O	1:A:23:GLY:N	0.49	2.45	5	1
1:B:13:ILE:HD12	1:B:14:ASN:N	0.49	2.22	9	1
1:B:64:TYR:CD2	1:B:79:ILE:CD1	0.49	2.96	10	3
1:B:45:TYR:O	1:B:47:ILE:HG12	0.49	2.07	18	1
1:B:51:ASP:OD2	1:B:51:ASP:O	0.49	2.29	21	1
1:B:64:TYR:OH	1:B:75:ILE:HG21	0.49	2.07	5	11
1:A:24:LYS:CA	1:A:24:LYS:HE2	0.49	2.38	3	1
1:A:24:LYS:CE	1:A:49:TYR:CE2	0.49	2.96	3	1
1:A:40:SER:OG	1:A:41:SER:N	0.49	2.43	11	1
1:A:61:GLU:CD	1:A:92:LYS:HZ2	0.49	2.15	25	1
1:A:80:ASN:OD1	1:A:81:LYS:N	0.49	2.46	1	1
1:B:49:TYR:CB	1:B:52:LYS:NZ	0.49	2.74	3	1
1:A:15:SER:O	1:A:19:LYS:N	0.49	2.46	14	6
1:B:23:GLY:CA	1:B:46:GLY:HA3	0.49	2.38	18	2
1:A:16:VAL:HG11	1:B:91:ILE:HG13	0.49	1.84	6	1
1:B:54:TRP:NE1	1:B:68:GLU:CD	0.49	2.70	10	1
1:B:59:ASN:CB	1:B:90:GLU:OE2	0.49	2.60	13	2
1:B:42:ASN:O	1:B:45:TYR:CB	0.49	2.60	18	1
1:A:72:VAL:HA	1:A:75:ILE:HD12	0.49	1.84	11	12
1:A:90:GLU:O	1:B:57:PHE:O	0.49	2.30	2	3
1:A:34:ASN:O	1:A:84:ILE:C	0.49	2.55	3	3
1:A:90:GLU:C	1:A:91:ILE:CD1	0.49	2.83	3	1
1:A:17:ASN:HB2	1:A:31:MET:HE3	0.49	1.85	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:53:ASN:HD22	1:A:67:ASN:CG	0.49	2.15	15	1
1:B:23:GLY:CA	1:B:46:GLY:N	0.49	2.76	15	1
1:A:70:SER:HB3	1:A:75:ILE:HD11	0.49	1.81	18	1
1:B:56:ILE:CD1	1:B:64:TYR:O	0.49	2.61	21	2
1:A:59:ASN:HB2	1:A:88:TYR:CE1	0.48	2.43	16	5
1:A:56:ILE:C	1:A:62:LYS:HZ2	0.48	2.16	3	1
1:A:23:GLY:CA	1:A:46:GLY:HA3	0.48	2.38	18	2
1:B:17:ASN:HD22	1:B:29:LEU:HG	0.48	1.68	5	1
1:A:54:TRP:HE1	1:A:68:GLU:CD	0.48	2.16	10	1
1:B:52:LYS:H	1:B:68:GLU:HB2	0.48	1.67	10	1
1:B:54:TRP:HE1	1:B:68:GLU:CD	0.48	2.16	10	1
1:B:13:ILE:O	1:B:17:ASN:N	0.48	2.40	22	1
1:A:82:LEU:HD13	1:A:83:ASN:N	0.48	2.20	23	1
1:B:45:TYR:CE2	1:B:47:ILE:HD11	0.48	2.43	23	1
1:A:77:ASN:O	1:A:80:ASN:OD1	0.48	2.31	1	2
1:B:10:MET:O	1:B:13:ILE:HG12	0.48	2.08	19	4
1:B:66:PHE:H	1:B:66:PHE:HD2	0.48	1.48	7	5
1:A:21:ASN:C	1:A:23:GLY:H	0.48	2.16	3	2
1:B:23:GLY:HA2	1:B:46:GLY:CA	0.48	2.38	15	1
1:B:24:LYS:HD2	1:B:24:LYS:H	0.48	1.68	16	1
1:B:34:ASN:ND2	1:B:86:GLY:N	0.48	2.61	21	2
1:A:45:TYR:CE2	1:A:47:ILE:HD11	0.48	2.43	23	1
1:B:24:LYS:CE	1:B:49:TYR:CE2	0.48	2.96	3	1
1:A:17:ASN:HD22	1:A:29:LEU:HG	0.48	1.68	5	1
1:A:70:SER:O	1:A:71:THR:CB	0.48	2.61	10	1
1:A:13:ILE:N	1:A:13:ILE:HD13	0.48	2.23	11	1
1:A:59:ASN:HB2	1:A:90:GLU:OE2	0.48	2.08	13	2
1:A:50:GLU:O	1:A:52:LYS:CG	0.48	2.61	16	1
1:B:82:LEU:O	1:B:83:ASN:ND2	0.48	2.46	22	1
1:A:59:ASN:HB2	1:A:88:TYR:CD2	0.48	2.43	23	2
1:B:27:LEU:CD1	1:B:29:LEU:CD1	0.48	2.91	3	13
1:B:80:ASN:OD1	1:B:81:LYS:N	0.48	2.46	1	1
1:B:24:LYS:N	1:B:46:GLY:HA3	0.48	2.23	5	1
1:B:59:ASN:CB	1:B:88:TYR:CD2	0.48	2.96	11	4
1:B:34:ASN:C	1:B:35:GLN:CG	0.48	2.87	12	6
1:A:45:TYR:O	1:A:47:ILE:HG12	0.48	2.07	18	1
1:A:45:TYR:CD2	1:A:71:THR:HB	0.48	2.43	23	1
1:A:64:TYR:CE1	1:A:66:PHE:HD1	0.48	2.26	23	1
1:B:82:LEU:HD13	1:B:83:ASN:N	0.48	2.20	23	1
1:B:67:ASN:ND2	1:B:68:GLU:N	0.48	2.62	24	1
1:B:17:ASN:HB2	1:B:31:MET:HE3	0.48	1.85	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:34:ASN:ND2	1:A:86:GLY:N	0.48	2.62	21	2
1:A:22:LYS:HZ3	1:A:54:TRP:CD1	0.48	2.24	23	1
1:B:21:ASN:C	1:B:23:GLY:H	0.48	2.16	3	1
1:A:66:PHE:N	1:A:66:PHE:HD2	0.48	2.04	14	2
1:B:89:ILE:H	1:B:89:ILE:CD1	0.48	2.11	7	2
1:A:34:ASN:C	1:A:35:GLN:CG	0.48	2.87	12	6
1:B:13:ILE:N	1:B:13:ILE:HD13	0.48	2.23	11	1
1:B:45:TYR:CD1	1:B:71:THR:HB	0.48	2.44	18	2
1:B:50:GLU:O	1:B:52:LYS:CG	0.48	2.61	16	1
1:B:11:ASN:ND2	1:B:14:ASN:OD1	0.48	2.46	17	1
1:B:64:TYR:CD2	1:B:64:TYR:C	0.48	2.89	1	1
1:B:45:TYR:O	1:B:47:ILE:HG13	0.48	2.08	2	2
1:B:17:ASN:O	1:B:21:ASN:CG	0.48	2.57	14	1
1:A:26:LYS:N	1:A:42:ASN:HD21	0.48	2.06	25	1
1:B:26:LYS:N	1:B:42:ASN:HD21	0.48	2.06	25	1
1:B:62:LYS:NZ	1:B:64:TYR:H	0.48	2.07	1	1
1:A:24:LYS:N	1:A:24:LYS:HD3	0.48	2.24	19	5
1:A:19:LYS:NZ	1:B:93:GLN:CG	0.48	2.77	17	2
1:B:26:LYS:HE3	1:B:43:ALA:HB3	0.48	1.84	17	1
1:A:25:GLY:N	1:A:45:TYR:O	0.48	2.47	21	1
1:A:22:LYS:C	1:A:24:LYS:N	0.48	2.67	23	1
1:B:64:TYR:CE1	1:B:66:PHE:HD1	0.48	2.26	23	1
1:B:45:TYR:CD2	1:B:45:TYR:C	0.48	2.92	1	2
1:B:24:LYS:NZ	1:B:48:SER:HB3	0.48	2.23	14	1
1:A:67:ASN:ND2	1:A:68:GLU:N	0.48	2.62	24	1
1:B:42:ASN:C	1:B:42:ASN:HD22	0.48	2.17	1	2
1:A:45:TYR:O	1:A:47:ILE:HG13	0.48	2.08	2	2
1:B:63:VAL:HG22	1:B:63:VAL:O	0.48	2.08	17	5
1:B:64:TYR:OH	1:B:75:ILE:CB	0.48	2.62	14	7
1:B:59:ASN:HB2	1:B:90:GLU:OE2	0.48	2.08	13	2
1:A:24:LYS:HD2	1:A:24:LYS:H	0.48	1.68	16	1
1:B:18:ASP:O	1:B:22:LYS:CG	0.48	2.62	16	2
1:B:10:MET:N	1:B:10:MET:CE	0.48	2.77	21	1
1:A:82:LEU:HD13	1:A:82:LEU:O	0.48	2.06	23	1
1:A:56:ILE:HA	1:B:91:ILE:HG22	0.47	1.86	2	2
1:A:63:VAL:HG22	1:A:63:VAL:O	0.47	2.08	20	6
1:A:56:ILE:CD1	1:A:64:TYR:CD2	0.47	2.97	5	1
1:A:24:LYS:HE2	1:A:49:TYR:CE1	0.47	2.44	6	1
1:B:70:SER:O	1:B:71:THR:CG2	0.47	2.60	10	1
1:A:92:LYS:HG2	1:B:55:GLY:N	0.47	2.24	16	3
1:A:82:LEU:CD1	1:A:84:ILE:N	0.47	2.77	23	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:22:LYS:C	1:B:24:LYS:N	0.47	2.67	23	1
1:B:34:ASN:CA	1:B:84:ILE:O	0.47	2.62	1	1
1:B:59:ASN:HB2	1:B:88:TYR:CE1	0.47	2.44	16	5
1:B:24:LYS:CA	1:B:24:LYS:HE2	0.47	2.38	3	1
1:B:56:ILE:C	1:B:62:LYS:HZ2	0.47	2.17	3	1
1:A:24:LYS:HE3	1:A:49:TYR:CZ	0.47	2.45	4	3
1:A:63:VAL:O	1:A:63:VAL:HG22	0.47	2.08	17	2
1:A:20:LEU:CD2	1:A:54:TRP:CE2	0.47	2.97	9	2
1:B:20:LEU:CD2	1:B:54:TRP:CE2	0.47	2.97	9	2
1:B:57:PHE:CE1	1:B:62:LYS:CD	0.47	2.97	9	2
1:B:64:TYR:CD2	1:B:79:ILE:CG2	0.47	2.97	23	2
1:A:34:ASN:CA	1:A:84:ILE:O	0.47	2.62	1	1
1:A:42:ASN:C	1:A:42:ASN:HD22	0.47	2.17	1	2
1:A:66:PHE:HD1	1:A:66:PHE:H	0.47	1.53	5	6
1:A:54:TRP:O	1:A:65:THR:HG23	0.47	2.09	15	2
1:B:16:VAL:O	1:B:20:LEU:N	0.47	2.45	15	3
1:B:70:SER:O	1:B:71:THR:CB	0.47	2.61	10	1
1:A:17:ASN:O	1:A:21:ASN:CG	0.47	2.57	14	1
1:A:23:GLY:CA	1:A:24:LYS:HD3	0.47	2.39	14	1
1:B:24:LYS:HG3	1:B:47:ILE:HD12	0.47	1.84	14	1
1:A:45:TYR:CD1	1:A:71:THR:HB	0.47	2.44	18	2
1:B:42:ASN:OD1	1:B:71:THR:OG1	0.47	2.23	17	1
1:A:62:LYS:NZ	1:A:64:TYR:H	0.47	2.07	1	1
1:A:59:ASN:CB	1:A:88:TYR:CD1	0.47	2.97	2	1
1:A:26:LYS:HE3	1:A:43:ALA:HB3	0.47	1.84	17	1
1:A:64:TYR:CD1	1:A:79:ILE:CG2	0.47	2.98	21	1
1:B:45:TYR:CD2	1:B:71:THR:HB	0.47	2.43	23	1
1:B:23:GLY:HA3	1:B:47:ILE:N	0.47	2.25	25	1
1:A:36:LEU:O	1:A:80:ASN:CB	0.47	2.63	1	4
1:B:36:LEU:O	1:B:80:ASN:CB	0.47	2.63	1	4
1:B:23:GLY:C	1:B:46:GLY:HA2	0.47	2.35	4	1
1:B:24:LYS:HE3	1:B:49:TYR:CZ	0.47	2.44	4	3
1:B:26:LYS:H	1:B:26:LYS:HD2	0.47	1.69	4	2
1:A:21:ASN:O	1:A:22:LYS:HB2	0.47	2.10	8	3
1:A:20:LEU:O	1:A:20:LEU:CD1	0.47	2.60	8	1
1:B:23:GLY:CA	1:B:24:LYS:HD3	0.47	2.39	14	1
1:A:18:ASP:O	1:A:22:LYS:CG	0.47	2.63	24	2
1:B:82:LEU:CD1	1:B:84:ILE:N	0.47	2.77	23	1
1:A:23:GLY:HA3	1:A:47:ILE:N	0.47	2.25	25	1
1:A:45:TYR:N	1:A:45:TYR:CD1	0.47	2.83	1	1
1:B:14:ASN:N	1:B:14:ASN:HD22	0.47	2.07	2	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:59:ASN:CB	1:B:88:TYR:CD1	0.47	2.97	2	1
1:B:23:GLY:C	1:B:24:LYS:O	0.47	2.58	3	4
1:B:15:SER:O	1:B:19:LYS:N	0.47	2.46	14	5
1:B:56:ILE:CD1	1:B:64:TYR:CD2	0.47	2.97	5	1
1:A:51:ASP:O	1:A:51:ASP:CG	0.47	2.58	8	1
1:A:92:LYS:HG2	1:B:55:GLY:H	0.47	1.70	22	1
1:B:82:LEU:HD13	1:B:82:LEU:O	0.47	2.06	23	1
1:A:24:LYS:H	1:A:24:LYS:HD3	0.47	1.69	9	3
1:A:55:GLY:O	1:A:57:PHE:CE1	0.47	2.68	1	2
1:A:23:GLY:C	1:A:46:GLY:HA3	0.47	2.35	5	2
1:A:64:TYR:OH	1:A:75:ILE:CB	0.47	2.62	14	7
1:B:33:GLY:O	1:B:34:ASN:CG	0.47	2.58	20	2
1:A:54:TRP:CH2	1:B:93:GLN:HB3	0.47	2.45	20	6
1:B:21:ASN:O	1:B:22:LYS:HB2	0.47	2.10	8	3
1:A:57:PHE:CE1	1:A:62:LYS:CD	0.47	2.97	9	2
1:A:56:ILE:O	1:A:63:VAL:CG1	0.47	2.56	12	2
1:A:23:GLY:CA	1:A:46:GLY:CA	0.47	2.92	15	1
1:A:20:LEU:O	1:A:21:ASN:C	0.47	2.58	23	2
1:A:42:ASN:O	1:A:45:TYR:CA	0.47	2.63	18	1
1:A:57:PHE:CE1	1:A:62:LYS:HD3	0.47	2.45	20	2
1:A:91:ILE:HG22	1:B:56:ILE:HG23	0.47	1.85	20	1
1:A:10:MET:N	1:A:10:MET:CE	0.47	2.77	21	1
1:B:25:GLY:N	1:B:45:TYR:O	0.47	2.47	21	1
1:A:27:LEU:CD1	1:A:29:LEU:CD1	0.47	2.93	6	13
1:B:23:GLY:C	1:B:46:GLY:HA3	0.47	2.35	5	2
1:B:23:GLY:CA	1:B:46:GLY:CA	0.47	2.92	15	1
1:A:57:PHE:CD1	1:A:62:LYS:HA	0.47	2.45	16	3
1:A:19:LYS:HZ1	1:B:93:GLN:CG	0.47	2.23	17	2
1:A:93:GLN:CG	1:B:19:LYS:NZ	0.47	2.78	11	2
1:A:33:GLY:O	1:A:34:ASN:HB3	0.47	2.10	20	1
1:A:46:GLY:O	1:A:47:ILE:C	0.47	2.58	20	1
1:A:47:ILE:HD13	1:A:48:SER:H	0.47	1.70	21	1
1:B:49:TYR:C	1:B:50:GLU:O	0.47	2.58	23	6
1:B:24:LYS:HE2	1:B:49:TYR:CE1	0.47	2.44	6	1
1:B:62:LYS:C	1:B:63:VAL:HG12	0.47	2.35	13	1
1:B:45:TYR:O	1:B:47:ILE:CG1	0.47	2.63	18	1
1:B:57:PHE:CE1	1:B:62:LYS:HD3	0.47	2.45	20	2
1:B:22:LYS:HZ3	1:B:54:TRP:CD1	0.47	2.23	23	1
1:B:77:ASN:O	1:B:80:ASN:OD1	0.46	2.31	1	2
1:A:23:GLY:C	1:A:46:GLY:HA2	0.46	2.34	4	1
1:A:33:GLY:O	1:A:34:ASN:CG	0.46	2.58	20	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:26:LYS:O	1:B:41:SER:N	0.46	2.49	9	1
1:B:64:TYR:CD1	1:B:66:PHE:CE2	0.46	3.03	10	1
1:A:62:LYS:C	1:A:63:VAL:HG12	0.46	2.34	13	1
1:A:12:SER:O	1:A:13:ILE:O	0.46	2.33	18	1
1:A:58:VAL:HG13	1:A:59:ASN:HD21	0.46	1.70	18	1
1:B:33:GLY:O	1:B:34:ASN:HB3	0.46	2.10	20	1
1:B:55:GLY:O	1:B:57:PHE:CE1	0.46	2.68	1	2
1:B:74:ASN:O	1:B:77:ASN:HB3	0.46	2.10	10	11
1:B:54:TRP:O	1:B:65:THR:HG23	0.46	2.09	15	2
1:B:57:PHE:CD1	1:B:62:LYS:HA	0.46	2.45	16	3
1:A:45:TYR:O	1:A:47:ILE:CG1	0.46	2.63	18	1
1:A:56:ILE:CG2	1:A:63:VAL:HG13	0.46	2.40	18	1
1:B:12:SER:O	1:B:13:ILE:O	0.46	2.33	18	1
1:B:20:LEU:O	1:B:21:ASN:C	0.46	2.58	23	2
1:A:11:ASN:OD1	1:A:11:ASN:C	0.46	2.58	21	1
1:A:17:ASN:ND2	1:A:29:LEU:HB2	0.46	2.26	6	6
1:B:45:TYR:CG	1:B:45:TYR:O	0.46	2.69	12	1
1:A:59:ASN:HB3	1:A:88:TYR:CG	0.46	2.46	14	1
1:B:82:LEU:O	1:B:83:ASN:HB3	0.46	2.11	23	1
1:B:24:LYS:H	1:B:24:LYS:HD3	0.46	1.69	9	3
1:B:66:PHE:HD1	1:B:66:PHE:H	0.46	1.53	15	6
1:A:22:LYS:H	1:A:24:LYS:HZ2	0.46	1.53	6	1
1:B:63:VAL:O	1:B:63:VAL:HG22	0.46	2.10	16	4
1:B:24:LYS:HZ2	1:B:48:SER:HB2	0.46	1.61	14	1
1:B:83:ASN:ND2	1:B:83:ASN:O	0.46	2.47	14	1
1:A:64:TYR:CD2	1:A:79:ILE:CG2	0.46	2.98	23	2
1:B:46:GLY:O	1:B:47:ILE:C	0.46	2.58	20	1
1:B:61:GLU:CD	1:B:92:LYS:HZ2	0.46	2.18	25	1
1:A:27:LEU:HB2	1:A:40:SER:OG	0.46	2.11	6	4
1:A:20:LEU:HG	1:A:54:TRP:CH2	0.46	2.46	9	9
1:B:20:LEU:HG	1:B:54:TRP:CH2	0.46	2.46	23	9
1:A:26:LYS:H	1:A:26:LYS:HD2	0.46	1.69	4	2
1:B:44:GLY:C	1:B:71:THR:CB	0.46	2.89	8	2
1:A:93:GLN:O	1:A:94:ILE:OXT	0.46	2.34	25	2
1:A:93:GLN:HB2	1:B:54:TRP:CZ2	0.46	2.46	25	1
1:B:17:ASN:ND2	1:B:29:LEU:HB2	0.46	2.26	6	9
1:B:27:LEU:HB2	1:B:40:SER:OG	0.46	2.11	6	5
1:B:51:ASP:OD1	1:B:51:ASP:O	0.46	2.34	1	1
1:A:91:ILE:HG22	1:B:56:ILE:HA	0.46	1.88	2	2
1:A:23:GLY:C	1:A:24:LYS:O	0.46	2.58	6	4
1:A:49:TYR:HB3	1:A:52:LYS:NZ	0.46	2.25	3	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:64:TYR:CD1	1:A:64:TYR:C	0.46	2.93	5	1
1:B:53:ASN:ND2	1:B:53:ASN:N	0.46	2.49	10	1
1:A:55:GLY:H	1:B:92:LYS:HG2	0.46	1.70	22	1
1:B:62:LYS:HZ2	1:B:65:THR:CB	0.46	2.20	24	1
1:A:54:TRP:CZ2	1:B:93:GLN:HB2	0.46	2.46	25	1
1:A:56:ILE:H	1:A:62:LYS:HZ1	0.46	1.53	1	1
1:A:63:VAL:O	1:A:63:VAL:CG2	0.46	2.62	6	5
1:A:64:TYR:CD2	1:A:64:TYR:C	0.46	2.89	1	1
1:B:64:TYR:CD2	1:B:66:PHE:CE2	0.46	3.04	9	1
1:A:57:PHE:CE1	1:B:92:LYS:HG3	0.46	2.46	11	1
1:B:82:LEU:HD12	1:B:82:LEU:H	0.46	1.70	13	2
1:B:45:TYR:CD1	1:B:47:ILE:HD13	0.46	2.45	15	1
1:B:45:TYR:N	1:B:45:TYR:CD1	0.46	2.83	1	1
1:A:74:ASN:O	1:A:77:ASN:HB3	0.46	2.11	25	12
1:A:89:ILE:CD1	1:A:89:ILE:N	0.46	2.79	8	1
1:B:93:GLN:N	1:B:93:GLN:OE1	0.46	2.49	9	1
1:B:56:ILE:CG2	1:B:63:VAL:HG13	0.46	2.40	18	2
1:B:59:ASN:HB2	1:B:88:TYR:CD1	0.46	2.46	22	1
1:A:22:LYS:HD2	1:A:54:TRP:NE1	0.46	2.26	23	1
1:B:80:ASN:N	1:B:80:ASN:ND2	0.46	2.54	5	1
1:A:79:ILE:O	1:A:82:LEU:HD12	0.46	2.11	10	5
1:B:20:LEU:O	1:B:20:LEU:CD1	0.46	2.60	8	1
1:A:93:GLN:N	1:A:93:GLN:OE1	0.46	2.49	9	1
1:A:47:ILE:CB	1:A:68:GLU:O	0.46	2.64	10	1
1:B:42:ASN:HD22	1:B:42:ASN:N	0.46	2.04	10	1
1:B:11:ASN:OD1	1:B:11:ASN:C	0.46	2.58	21	1
1:A:82:LEU:O	1:A:83:ASN:HB3	0.46	2.11	23	1
1:B:22:LYS:HD2	1:B:54:TRP:NE1	0.46	2.26	23	1
1:A:59:ASN:CA	1:A:90:GLU:OE2	0.46	2.64	25	1
1:A:68:GLU:OE1	1:B:94:ILE:HG21	0.46	2.11	3	1
1:A:93:GLN:HB3	1:B:54:TRP:CH2	0.46	2.46	25	5
1:A:49:TYR:CD2	1:A:49:TYR:N	0.46	2.69	15	1
1:B:88:TYR:OH	1:B:90:GLU:HG3	0.46	2.11	20	2
1:A:52:LYS:HZ2	1:A:52:LYS:HB2	0.46	1.71	25	1
1:B:24:LYS:HE2	1:B:24:LYS:N	0.45	2.26	3	1
1:A:23:GLY:H	1:A:24:LYS:HZ1	0.45	1.54	6	1
1:A:44:GLY:C	1:A:71:THR:CB	0.45	2.89	8	2
1:B:67:ASN:OD1	1:B:70:SER:N	0.45	2.41	8	2
1:B:47:ILE:CB	1:B:68:GLU:O	0.45	2.65	10	1
1:A:55:GLY:N	1:B:92:LYS:HG2	0.45	2.26	16	3
1:B:23:GLY:C	1:B:24:LYS:HD3	0.45	2.36	14	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:49:TYR:CD2	1:B:49:TYR:N	0.45	2.69	15	1
1:A:49:TYR:HB2	1:A:68:GLU:OE2	0.45	2.11	21	1
1:B:47:ILE:HD13	1:B:48:SER:H	0.45	1.70	21	1
1:A:83:ASN:C	1:A:84:ILE:O	0.45	2.60	1	14
1:A:19:LYS:NZ	1:B:93:GLN:HG3	0.45	2.25	17	2
1:B:47:ILE:HD12	1:B:68:GLU:O	0.45	2.11	4	1
1:A:59:ASN:HD21	1:A:61:GLU:HB2	0.45	1.71	5	4
1:A:88:TYR:CE1	1:A:90:GLU:HG3	0.45	2.46	17	5
1:B:56:ILE:HD13	1:B:64:TYR:C	0.45	2.36	18	3
1:A:24:LYS:C	1:A:25:GLY:O	0.45	2.59	23	3
1:A:23:GLY:C	1:A:24:LYS:HD3	0.45	2.36	14	1
1:A:24:LYS:NZ	1:A:48:SER:HB3	0.45	2.23	14	1
1:B:79:ILE:O	1:B:82:LEU:HD12	0.45	2.11	18	5
1:B:59:ASN:HB3	1:B:88:TYR:CG	0.45	2.45	14	1
1:A:45:TYR:CD1	1:A:47:ILE:HD13	0.45	2.45	15	1
1:B:47:ILE:C	1:B:49:TYR:H	0.45	2.18	22	2
1:A:45:TYR:CD2	1:A:45:TYR:C	0.45	2.92	1	3
1:B:37:LYS:HZ3	1:B:37:LYS:HB2	0.45	1.72	7	1
1:B:42:ASN:O	1:B:45:TYR:CA	0.45	2.63	18	1
1:A:88:TYR:OH	1:A:90:GLU:HG3	0.45	2.11	20	2
1:A:34:ASN:ND2	1:A:86:GLY:HA3	0.45	2.27	21	1
1:B:59:ASN:CG	1:B:88:TYR:CD1	0.45	2.94	21	1
1:B:59:ASN:HD21	1:B:61:GLU:CG	0.45	2.25	1	1
1:A:79:ILE:O	1:A:82:LEU:HG	0.45	2.11	21	11
1:B:56:ILE:C	1:B:62:LYS:NZ	0.45	2.75	3	1
1:A:34:ASN:HB2	1:A:85:LYS:C	0.45	2.37	25	2
1:A:64:TYR:CD1	1:A:66:PHE:CE1	0.45	3.04	18	2
1:B:93:GLN:O	1:B:94:ILE:OXT	0.45	2.35	21	2
1:A:59:ASN:HB2	1:A:88:TYR:CD1	0.45	2.46	22	1
1:A:51:ASP:OD1	1:A:51:ASP:O	0.45	2.34	1	1
1:A:56:ILE:HD11	1:A:66:PHE:CZ	0.45	2.47	5	3
1:B:79:ILE:O	1:B:82:LEU:HG	0.45	2.11	21	10
1:A:24:LYS:HE3	1:A:49:TYR:CE2	0.45	2.47	3	1
1:A:10:MET:SD	1:A:34:ASN:HB3	0.45	2.52	5	1
1:A:49:TYR:C	1:A:50:GLU:O	0.45	2.59	6	6
1:B:10:MET:SD	1:B:34:ASN:HB3	0.45	2.52	5	1
1:B:24:LYS:C	1:B:25:GLY:O	0.45	2.59	23	4
1:A:82:LEU:CD1	1:A:84:ILE:HG13	0.45	2.42	25	2
1:A:23:GLY:O	1:A:48:SER:O	0.45	2.34	21	1
1:B:23:GLY:O	1:B:48:SER:O	0.45	2.34	21	1
1:B:34:ASN:CG	1:B:86:GLY:N	0.45	2.75	21	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:64:TYR:CD1	1:B:79:ILE:CG2	0.45	2.98	21	1
1:B:83:ASN:C	1:B:84:ILE:O	0.45	2.60	1	12
1:A:10:MET:SD	1:A:12:SER:HB3	0.45	2.52	6	1
1:A:58:VAL:CG2	1:A:59:ASN:OD1	0.45	2.55	7	1
1:B:25:GLY:N	1:B:45:TYR:HA	0.45	2.27	12	2
1:B:51:ASP:O	1:B:51:ASP:CG	0.45	2.58	8	1
1:A:47:ILE:HD12	1:A:48:SER:N	0.45	2.27	10	1
1:A:59:ASN:CG	1:A:88:TYR:CD1	0.45	2.95	21	1
1:A:45:TYR:CG	1:A:47:ILE:HG13	0.45	2.47	24	1
1:B:59:ASN:CA	1:B:90:GLU:OE2	0.45	2.64	25	1
1:B:82:LEU:CD1	1:B:84:ILE:HG13	0.45	2.42	25	1
1:A:59:ASN:O	1:A:90:GLU:HB2	0.45	2.12	2	4
1:B:24:LYS:HE3	1:B:49:TYR:CE2	0.45	2.47	3	3
1:B:59:ASN:HD21	1:B:61:GLU:HB2	0.45	1.71	5	5
1:B:10:MET:SD	1:B:12:SER:HB3	0.45	2.52	6	1
1:A:48:SER:OG	1:A:68:GLU:HG2	0.45	2.12	10	1
1:A:64:TYR:CD1	1:A:66:PHE:CE2	0.45	3.03	10	1
1:A:45:TYR:CG	1:A:45:TYR:O	0.45	2.69	12	1
1:A:14:ASN:O	1:A:17:ASN:CB	0.45	2.65	17	1
1:A:88:TYR:CZ	1:A:90:GLU:HG2	0.45	2.47	20	2
1:B:22:LYS:NZ	1:B:54:TRP:NE1	0.45	2.65	23	1
1:B:45:TYR:CE2	1:B:71:THR:HG21	0.45	2.47	23	1
1:A:47:ILE:HD12	1:A:68:GLU:O	0.45	2.11	4	1
1:A:24:LYS:N	1:A:46:GLY:CA	0.45	2.80	5	1
1:A:36:LEU:HG	1:A:80:ASN:ND2	0.45	2.27	6	1
1:B:88:TYR:CE1	1:B:90:GLU:HG3	0.45	2.46	17	5
1:A:92:LYS:HD2	1:B:57:PHE:CE1	0.45	2.47	21	1
1:A:90:GLU:OE2	1:A:91:ILE:N	0.45	2.46	22	1
1:B:34:ASN:HB2	1:B:85:LYS:C	0.45	2.37	25	1
1:B:63:VAL:O	1:B:63:VAL:CG2	0.45	2.62	6	5
1:A:94:ILE:HG21	1:B:68:GLU:OE1	0.45	2.11	3	1
1:A:79:ILE:HD13	1:A:79:ILE:N	0.45	2.27	23	4
1:B:81:LYS:C	1:B:83:ASN:N	0.45	2.75	10	2
1:B:67:ASN:CG	1:B:68:GLU:H	0.45	2.19	11	1
1:B:46:GLY:H	1:B:47:ILE:HD12	0.45	1.71	13	1
1:A:93:GLN:CG	1:B:19:LYS:HZ1	0.45	2.25	17	2
1:B:52:LYS:HZ2	1:B:52:LYS:HB2	0.45	1.72	25	1
1:B:34:ASN:O	1:B:84:ILE:N	0.44	2.50	1	1
1:A:49:TYR:CD2	1:A:68:GLU:CD	0.44	2.95	3	1
1:B:20:LEU:HD21	1:B:66:PHE:CE1	0.44	2.47	5	2
1:A:92:LYS:HG3	1:B:57:PHE:CE1	0.44	2.46	11	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:61:GLU:HG2	1:B:92:LYS:NZ	0.44	2.27	11	1
1:A:49:TYR:O	1:A:52:LYS:HE3	0.44	2.12	20	2
1:B:45:TYR:CD1	1:B:47:ILE:CD1	0.44	3.01	15	1
1:A:45:TYR:CE1	1:A:71:THR:CG2	0.44	3.00	17	1
1:A:47:ILE:C	1:A:49:TYR:H	0.44	2.19	22	2
1:A:45:TYR:CE2	1:A:71:THR:HG21	0.44	2.47	23	1
1:A:80:ASN:C	1:A:80:ASN:OD1	0.44	2.60	2	2
1:A:88:TYR:CE2	1:A:90:GLU:HG3	0.44	2.47	21	4
1:A:56:ILE:C	1:A:62:LYS:NZ	0.44	2.75	3	1
1:B:24:LYS:N	1:B:46:GLY:CA	0.44	2.80	5	1
1:A:56:ILE:HD13	1:A:64:TYR:C	0.44	2.36	18	3
1:B:49:TYR:O	1:B:52:LYS:HE3	0.44	2.12	20	2
1:B:68:GLU:O	1:B:71:THR:N	0.44	2.49	16	1
1:A:34:ASN:CG	1:A:86:GLY:N	0.44	2.75	21	1
1:B:59:ASN:HD22	1:B:61:GLU:HB2	0.44	1.72	21	1
1:A:26:LYS:O	1:A:40:SER:CA	0.44	2.66	24	4
1:A:34:ASN:O	1:A:84:ILE:N	0.44	2.50	1	1
1:B:23:GLY:H	1:B:24:LYS:HE2	0.44	1.72	8	1
1:A:74:ASN:O	1:A:77:ASN:CB	0.44	2.66	25	2
1:A:45:TYR:CE2	1:A:46:GLY:O	0.44	2.70	11	1
1:A:82:LEU:HD12	1:A:82:LEU:H	0.44	1.70	13	1
1:A:37:LYS:HB2	1:A:37:LYS:NZ	0.44	2.27	14	2
1:B:37:LYS:CB	1:B:37:LYS:NZ	0.44	2.81	14	1
1:A:27:LEU:HG	1:A:28:SER:N	0.44	2.27	15	1
1:A:45:TYR:CD1	1:A:47:ILE:CD1	0.44	3.01	15	1
1:B:45:TYR:CE1	1:B:71:THR:CG2	0.44	3.00	17	1
1:A:57:PHE:CE1	1:B:92:LYS:HD2	0.44	2.47	21	1
1:B:45:TYR:CG	1:B:47:ILE:HG13	0.44	2.47	24	1
1:B:56:ILE:HD11	1:B:66:PHE:CZ	0.44	2.47	5	3
1:A:56:ILE:O	1:A:62:LYS:HA	0.44	2.13	13	2
1:B:59:ASN:O	1:B:90:GLU:HB2	0.44	2.12	2	4
1:B:48:SER:HB3	1:B:49:TYR:CE1	0.44	2.48	16	2
1:B:49:TYR:CD2	1:B:68:GLU:CD	0.44	2.95	3	1
1:B:32:ASN:HB2	1:B:37:LYS:NZ	0.44	2.28	22	2
1:A:37:LYS:HZ3	1:A:37:LYS:HB2	0.44	1.72	7	1
1:A:23:GLY:H	1:A:24:LYS:HE2	0.44	1.72	8	1
1:A:26:LYS:O	1:A:41:SER:N	0.44	2.49	9	1
1:A:81:LYS:C	1:A:83:ASN:N	0.44	2.75	10	2
1:B:79:ILE:N	1:B:79:ILE:HD13	0.44	2.27	23	4
1:B:49:TYR:HB2	1:B:68:GLU:OE2	0.44	2.11	21	1
1:A:22:LYS:NZ	1:A:54:TRP:NE1	0.44	2.65	23	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:80:ASN:C	1:B:80:ASN:OD1	0.44	2.60	2	2
1:A:20:LEU:HD21	1:A:66:PHE:CE1	0.44	2.48	5	2
1:B:36:LEU:CG	1:B:80:ASN:ND2	0.44	2.81	6	1
1:A:46:GLY:H	1:A:47:ILE:HD12	0.44	1.71	13	1
1:B:88:TYR:CZ	1:B:90:GLU:HG2	0.44	2.47	20	2
1:A:89:ILE:H	1:A:89:ILE:CD1	0.44	2.07	21	1
1:A:59:ASN:HD21	1:A:61:GLU:CG	0.44	2.25	1	1
1:A:25:GLY:N	1:A:45:TYR:HA	0.44	2.27	12	3
1:B:45:TYR:CE2	1:B:46:GLY:O	0.44	2.70	11	1
1:A:26:LYS:O	1:A:26:LYS:HG2	0.44	2.13	13	1
1:B:45:TYR:O	1:B:47:ILE:HD13	0.44	2.13	15	1
1:A:66:PHE:N	1:A:66:PHE:HD1	0.44	2.11	17	1
1:B:14:ASN:O	1:B:17:ASN:CB	0.44	2.65	17	1
1:A:91:ILE:HD11	1:B:16:VAL:CG1	0.44	2.42	2	1
1:B:56:ILE:O	1:B:62:LYS:HA	0.44	2.13	13	2
1:B:83:ASN:ND2	1:B:83:ASN:C	0.44	2.76	3	2
1:A:11:ASN:C	1:A:13:ILE:H	0.44	2.21	4	1
1:A:62:LYS:HG3	1:A:63:VAL:N	0.44	2.28	21	2
1:A:68:GLU:OE2	1:A:68:GLU:CA	0.44	2.66	15	2
1:A:64:TYR:CD2	1:A:66:PHE:CE2	0.44	3.04	9	1
1:A:12:SER:O	1:A:16:VAL:CB	0.44	2.66	22	2
1:A:34:ASN:ND2	1:A:34:ASN:N	0.44	2.64	21	1
1:A:32:ASN:HB2	1:A:37:LYS:NZ	0.44	2.28	22	1
1:B:21:ASN:HD22	1:B:22:LYS:H	0.44	1.52	22	1
1:A:93:GLN:HG3	1:B:19:LYS:NZ	0.44	2.26	17	2
1:A:24:LYS:HE2	1:A:24:LYS:N	0.44	2.26	3	1
1:B:36:LEU:HG	1:B:80:ASN:ND2	0.44	2.27	6	1
1:B:13:ILE:HD11	1:B:85:LYS:O	0.44	2.13	8	1
1:B:64:TYR:CD1	1:B:66:PHE:CE1	0.44	3.04	18	2
1:B:12:SER:O	1:B:16:VAL:CB	0.44	2.66	22	2
1:B:58:VAL:CG2	1:B:59:ASN:N	0.44	2.81	19	1
1:A:59:ASN:HD22	1:A:61:GLU:HB2	0.44	1.71	21	1
1:A:32:ASN:CB	1:A:37:LYS:NZ	0.44	2.81	22	1
1:A:23:GLY:HA2	1:A:49:TYR:CD2	0.43	2.48	5	1
1:A:23:GLY:H	1:A:24:LYS:CE	0.43	2.26	6	1
1:B:24:LYS:HE2	1:B:49:TYR:CD1	0.43	2.48	6	1
1:A:54:TRP:HB3	1:B:94:ILE:H	0.43	1.73	7	2
1:B:48:SER:OG	1:B:68:GLU:HG2	0.43	2.12	10	1
1:B:17:ASN:CG	1:B:29:LEU:HD21	0.43	2.37	11	1
1:B:51:ASP:OD1	1:B:67:ASN:CG	0.43	2.61	12	1
1:B:64:TYR:CZ	1:B:66:PHE:CG	0.43	3.06	17	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:82:LEU:HD12	1:B:83:ASN:N	0.43	2.28	22	1
1:B:25:GLY:HA2	1:B:42:ASN:CB	0.43	2.43	23	1
1:A:85:LYS:HB2	1:A:85:LYS:NZ	0.43	2.28	1	1
1:A:16:VAL:CG1	1:B:91:ILE:HD11	0.43	2.43	2	1
1:A:10:MET:O	1:A:13:ILE:HG13	0.43	2.14	16	6
1:A:27:LEU:HG	1:A:29:LEU:HD11	0.43	1.90	18	5
1:A:61:GLU:HG2	1:A:92:LYS:NZ	0.43	2.27	11	1
1:B:26:LYS:O	1:B:26:LYS:HG2	0.43	2.13	13	2
1:B:34:ASN:O	1:B:84:ILE:HG13	0.43	2.13	13	1
1:A:93:GLN:CD	1:A:93:GLN:C	0.43	2.84	23	2
1:B:32:ASN:CB	1:B:37:LYS:NZ	0.43	2.81	22	1
1:B:62:LYS:CB	1:B:62:LYS:NZ	0.43	2.82	2	1
1:B:88:TYR:CE2	1:B:90:GLU:HG3	0.43	2.48	7	4
1:A:47:ILE:O	1:A:49:TYR:C	0.43	2.62	5	1
1:A:45:TYR:N	1:A:71:THR:HB	0.43	2.28	6	2
1:B:23:GLY:H	1:B:24:LYS:NZ	0.43	2.11	6	1
1:A:94:ILE:H	1:B:54:TRP:HB3	0.43	1.74	15	2
1:B:35:GLN:CD	1:B:84:ILE:O	0.43	2.61	7	1
1:B:47:ILE:HD12	1:B:48:SER:N	0.43	2.27	10	1
1:A:37:LYS:NZ	1:A:37:LYS:CB	0.43	2.81	14	1
1:A:47:ILE:N	1:A:47:ILE:HD13	0.43	2.27	18	3
1:B:51:ASP:OD2	1:B:67:ASN:CG	0.43	2.61	15	1
1:B:36:LEU:CD2	1:B:80:ASN:OD1	0.43	2.66	19	1
1:A:25:GLY:HA2	1:A:42:ASN:CB	0.43	2.43	23	1
1:A:70:SER:HG	1:A:75:ILE:HD11	0.43	1.68	9	3
1:A:11:ASN:C	1:A:13:ILE:N	0.43	2.76	4	1
1:B:62:LYS:HG3	1:B:63:VAL:N	0.43	2.28	21	2
1:B:45:TYR:N	1:B:71:THR:HB	0.43	2.28	6	2
1:B:27:LEU:HG	1:B:29:LEU:HD11	0.43	1.91	25	5
1:A:17:ASN:CG	1:A:29:LEU:HD21	0.43	2.37	11	1
1:A:45:TYR:O	1:A:47:ILE:HD13	0.43	2.13	15	1
1:B:26:LYS:O	1:B:40:SER:CA	0.43	2.66	24	4
1:A:48:SER:HB3	1:A:49:TYR:CE1	0.43	2.48	16	2
1:A:35:GLN:CD	1:A:84:ILE:O	0.43	2.61	7	1
1:B:37:LYS:NZ	1:B:37:LYS:HB2	0.43	2.27	14	1
1:B:23:GLY:HA3	1:B:46:GLY:H	0.43	1.73	15	1
1:A:58:VAL:CG2	1:A:59:ASN:N	0.43	2.81	19	1
1:A:58:VAL:HG21	1:A:85:LYS:HG2	0.43	1.91	21	1
1:A:10:MET:SD	1:A:12:SER:HB2	0.43	2.53	6	1
1:A:23:GLY:H	1:A:24:LYS:HE3	0.43	1.73	6	1
1:A:92:LYS:O	1:B:54:TRP:HB2	0.43	2.14	15	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:16:VAL:HG12	1:A:20:LEU:HD23	0.43	1.91	8	1
1:A:16:VAL:HG12	1:A:20:LEU:HD12	0.43	1.90	9	1
1:A:56:ILE:CD1	1:A:66:PHE:CE2	0.43	3.01	10	2
1:B:56:ILE:CD1	1:B:66:PHE:CE2	0.43	3.01	10	2
1:B:74:ASN:O	1:B:77:ASN:CB	0.43	2.66	25	2
1:A:82:LEU:HD12	1:A:83:ASN:N	0.43	2.28	22	1
1:B:85:LYS:HB2	1:B:85:LYS:NZ	0.43	2.28	1	1
1:A:23:GLY:H	1:A:24:LYS:NZ	0.43	2.11	6	1
1:B:10:MET:O	1:B:13:ILE:HG13	0.43	2.14	6	6
1:B:23:GLY:H	1:B:24:LYS:CE	0.43	2.27	6	1
1:A:54:TRP:HB2	1:B:92:LYS:O	0.43	2.14	15	1
1:B:10:MET:H	1:B:13:ILE:HG12	0.43	1.74	14	2
1:A:24:LYS:HE2	1:A:49:TYR:CD1	0.43	2.48	6	1
1:A:50:GLU:CB	1:A:52:LYS:HZ3	0.43	2.24	6	1
1:A:53:ASN:C	1:A:54:TRP:HD1	0.43	2.22	7	1
1:A:13:ILE:HD11	1:A:85:LYS:O	0.43	2.13	8	1
1:B:57:PHE:CZ	1:B:62:LYS:HD2	0.43	2.49	14	2
1:B:64:TYR:HD1	1:B:65:THR:H	0.43	1.48	14	1
1:A:64:TYR:CZ	1:A:66:PHE:CG	0.43	3.06	17	1
1:B:34:ASN:ND2	1:B:86:GLY:HA3	0.43	2.27	21	1
1:A:61:GLU:OE1	1:A:92:LYS:NZ	0.43	2.52	25	1
1:A:93:GLN:CB	1:B:54:TRP:CZ2	0.43	3.02	25	1
1:A:36:LEU:CG	1:A:80:ASN:ND2	0.43	2.81	6	1
1:B:34:ASN:HB3	1:B:86:GLY:N	0.43	2.29	25	2
1:A:62:LYS:NZ	1:A:65:THR:HB	0.43	2.29	10	1
1:B:45:TYR:CD2	1:B:47:ILE:HD11	0.43	2.49	20	2
1:A:14:ASN:ND2	1:A:14:ASN:N	0.43	2.66	21	1
1:A:34:ASN:HB3	1:A:86:GLY:N	0.43	2.29	25	1
1:A:60:GLY:HA2	1:B:60:GLY:CA	0.43	2.44	14	2
1:A:57:PHE:CZ	1:A:62:LYS:HD2	0.43	2.49	17	2
1:B:27:LEU:HG	1:B:28:SER:N	0.43	2.27	15	1
1:A:68:GLU:O	1:A:71:THR:N	0.43	2.49	16	1
1:B:26:LYS:NZ	1:B:41:SER:HB3	0.43	2.29	17	3
1:B:93:GLN:CD	1:B:93:GLN:C	0.43	2.84	23	3
1:A:45:TYR:CD2	1:A:47:ILE:HD11	0.43	2.49	20	2
1:B:36:LEU:C	1:B:37:LYS:HG3	0.42	2.39	16	5
1:A:34:ASN:ND2	1:A:87:MET:CE	0.42	2.82	5	1
1:B:23:GLY:HA2	1:B:49:TYR:CD2	0.42	2.48	5	1
1:B:47:ILE:O	1:B:49:TYR:C	0.42	2.62	5	1
1:A:54:TRP:NE1	1:A:68:GLU:OE1	0.42	2.52	10	1
1:A:51:ASP:OD1	1:A:67:ASN:CG	0.42	2.61	12	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:21:ASN:ND2	1:B:29:LEU:HG	0.42	2.29	14	1
1:B:24:LYS:NZ	1:B:49:TYR:H	0.42	2.12	14	1
1:A:51:ASP:OD2	1:A:67:ASN:CG	0.42	2.61	15	1
1:A:82:LEU:HD13	1:A:84:ILE:N	0.42	2.29	23	1
1:A:23:GLY:O	1:A:48:SER:CB	0.42	2.67	24	1
1:B:61:GLU:OE1	1:B:92:LYS:NZ	0.42	2.52	25	1
1:A:60:GLY:CA	1:B:60:GLY:HA2	0.42	2.42	4	2
1:B:11:ASN:C	1:B:13:ILE:H	0.42	2.21	4	1
1:A:85:LYS:N	1:A:85:LYS:CD	0.42	2.82	6	1
1:B:24:LYS:N	1:B:24:LYS:HE3	0.42	2.29	6	1
1:B:85:LYS:N	1:B:85:LYS:CD	0.42	2.82	6	1
1:B:24:LYS:HD3	1:B:24:LYS:N	0.42	2.28	7	1
1:A:67:ASN:OD1	1:A:70:SER:N	0.42	2.41	8	1
1:B:68:GLU:OE2	1:B:68:GLU:CA	0.42	2.66	15	2
1:A:25:GLY:CA	1:A:45:TYR:HA	0.42	2.45	12	1
1:A:36:LEU:CD2	1:A:80:ASN:OD1	0.42	2.66	19	1
1:A:21:ASN:O	1:A:49:TYR:CZ	0.42	2.71	22	1
1:A:36:LEU:C	1:A:37:LYS:HG3	0.42	2.39	16	3
1:B:10:MET:SD	1:B:12:SER:HB2	0.42	2.53	6	1
1:A:47:ILE:H	1:A:47:ILE:HD12	0.42	1.73	8	2
1:A:53:ASN:H	1:A:53:ASN:HD22	0.42	1.51	10	1
1:B:56:ILE:O	1:B:63:VAL:CG1	0.42	2.56	12	2
1:A:24:LYS:HE3	1:A:46:GLY:C	0.42	2.39	14	1
1:B:24:LYS:HZ2	1:B:48:SER:HB3	0.42	1.67	14	1
1:A:26:LYS:NZ	1:A:41:SER:HB3	0.42	2.29	17	1
1:A:42:ASN:OD1	1:A:71:THR:OG1	0.42	2.23	17	1
1:B:58:VAL:HG21	1:B:85:LYS:HG2	0.42	1.91	21	1
1:B:83:ASN:OD1	1:B:85:LYS:CD	0.42	2.67	22	1
1:A:52:LYS:NZ	1:B:94:ILE:HG21	0.42	2.30	25	1
1:A:94:ILE:HG21	1:B:52:LYS:NZ	0.42	2.30	25	1
1:A:56:ILE:H	1:A:62:LYS:NZ	0.42	2.12	1	1
1:A:92:LYS:HE3	1:B:55:GLY:N	0.42	2.29	2	1
1:B:13:ILE:N	1:B:13:ILE:HD12	0.42	2.29	9	1
1:B:62:LYS:NZ	1:B:65:THR:HB	0.42	2.29	10	1
1:A:27:LEU:HD12	1:A:38:ALA:HB1	0.42	1.91	11	1
1:A:67:ASN:CG	1:A:68:GLU:H	0.42	2.19	11	1
1:B:24:LYS:HE3	1:B:48:SER:N	0.42	2.30	14	1
1:A:26:LYS:HE2	1:A:42:ASN:ND2	0.42	2.29	15	1
1:B:27:LEU:HA	1:B:39:THR:O	0.42	2.14	15	1
1:A:42:ASN:O	1:A:45:TYR:CD2	0.42	2.72	18	1
1:B:42:ASN:O	1:B:45:TYR:CD2	0.42	2.72	18	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:21:ASN:O	1:B:49:TYR:CZ	0.42	2.72	22	1
1:A:24:LYS:HE3	1:A:24:LYS:N	0.42	2.29	6	1
1:B:23:GLY:H	1:B:24:LYS:HE3	0.42	1.73	6	1
1:B:33:GLY:C	1:B:34:ASN:HD22	0.42	2.19	7	2
1:A:24:LYS:HA	1:A:46:GLY:N	0.42	2.29	9	1
1:B:24:LYS:HA	1:B:46:GLY:N	0.42	2.29	9	1
1:A:90:GLU:OE2	1:B:16:VAL:HG22	0.42	2.15	10	1
1:B:53:ASN:H	1:B:53:ASN:HD22	0.42	1.51	10	1
1:A:24:LYS:NZ	1:A:49:TYR:H	0.42	2.12	14	1
1:B:89:ILE:C	1:B:90:GLU:HG3	0.42	2.40	17	2
1:B:14:ASN:ND2	1:B:14:ASN:N	0.42	2.66	21	1
1:A:45:TYR:CE1	1:A:47:ILE:HD11	0.42	2.50	5	1
1:A:13:ILE:CD1	1:A:14:ASN:ND2	0.42	2.82	6	2
1:A:45:TYR:O	1:A:45:TYR:CD1	0.42	2.72	9	1
1:A:94:ILE:HG21	1:B:52:LYS:HB3	0.42	1.91	10	1
1:A:12:SER:OG	1:A:31:MET:SD	0.42	2.75	13	1
1:B:74:ASN:OD1	1:B:74:ASN:C	0.42	2.62	22	1
1:A:36:LEU:O	1:A:37:LYS:HG2	0.42	2.15	8	3
1:B:25:GLY:CA	1:B:45:TYR:HA	0.42	2.45	12	2
1:B:52:LYS:O	1:B:68:GLU:N	0.42	2.52	1	1
1:B:34:ASN:ND2	1:B:87:MET:CE	0.42	2.82	5	1
1:B:54:TRP:NE1	1:B:68:GLU:OE1	0.42	2.52	10	1
1:A:26:LYS:CB	1:A:26:LYS:NZ	0.42	2.83	12	1
1:A:87:MET:HE2	1:B:87:MET:SD	0.42	2.53	12	1
1:A:89:ILE:C	1:A:90:GLU:HG3	0.42	2.40	17	2
1:B:58:VAL:HG21	1:B:85:LYS:CE	0.42	2.45	17	1
1:A:21:ASN:HD22	1:A:22:LYS:H	0.42	1.52	22	1
1:A:54:TRP:CZ2	1:B:93:GLN:CB	0.42	3.02	25	1
1:A:10:MET:H	1:A:13:ILE:HG12	0.42	1.74	1	2
1:B:36:LEU:O	1:B:80:ASN:HB2	0.42	2.14	1	1
1:A:24:LYS:HE2	1:A:24:LYS:H	0.42	1.75	20	2
1:A:62:LYS:NZ	1:A:62:LYS:HB2	0.42	2.29	12	1
1:B:27:LEU:CD2	1:B:29:LEU:HD11	0.42	2.45	12	1
1:A:82:LEU:CD1	1:A:82:LEU:N	0.42	2.82	13	1
1:A:82:LEU:C	1:A:82:LEU:HD13	0.42	2.39	13	1
1:B:49:TYR:HB2	1:B:52:LYS:CE	0.42	2.45	13	1
1:B:26:LYS:HE2	1:B:42:ASN:ND2	0.42	2.29	15	1
1:A:93:GLN:HB3	1:B:54:TRP:CZ2	0.42	2.49	23	1
1:B:45:TYR:CG	1:B:47:ILE:CG1	0.42	3.03	24	1
1:B:16:VAL:HG12	1:B:20:LEU:HD12	0.42	1.90	9	1
1:B:45:TYR:O	1:B:45:TYR:CD1	0.42	2.73	9	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:67:ASN:O	1:A:70:SER:N	0.42	2.53	12	1
1:A:34:ASN:O	1:A:84:ILE:HG12	0.42	2.14	13	1
1:B:82:LEU:CD1	1:B:82:LEU:N	0.42	2.82	13	1
1:A:21:ASN:ND2	1:A:29:LEU:HG	0.42	2.29	14	1
1:A:58:VAL:HG21	1:A:85:LYS:CE	0.42	2.45	17	1
1:A:52:LYS:C	1:A:53:ASN:HD22	0.42	2.23	23	1
1:B:45:TYR:CE1	1:B:47:ILE:HD11	0.42	2.50	5	1
1:B:64:TYR:CD1	1:B:64:TYR:C	0.42	2.93	5	1
1:B:52:LYS:N	1:B:68:GLU:HB2	0.42	2.30	10	1
1:B:62:LYS:HB2	1:B:62:LYS:NZ	0.42	2.29	12	1
1:A:49:TYR:HB2	1:A:52:LYS:CE	0.42	2.45	13	1
1:B:82:LEU:C	1:B:82:LEU:HD13	0.42	2.39	13	1
1:A:24:LYS:HZ2	1:A:49:TYR:N	0.42	2.12	14	1
1:B:27:LEU:CD1	1:B:39:THR:O	0.42	2.67	17	1
1:A:43:ALA:O	1:A:45:TYR:CZ	0.42	2.73	18	1
1:A:11:ASN:C	1:A:13:ILE:HD12	0.42	2.40	22	1
1:A:83:ASN:OD1	1:A:85:LYS:CD	0.42	2.67	22	1
1:A:36:LEU:O	1:A:80:ASN:HB2	0.41	2.14	1	1
1:A:55:GLY:N	1:B:92:LYS:HE3	0.41	2.30	2	1
1:A:24:LYS:NZ	1:A:24:LYS:CA	0.41	2.83	4	1
1:A:26:LYS:HD2	1:A:41:SER:O	0.41	2.15	4	1
1:A:22:LYS:O	1:A:49:TYR:HB2	0.41	2.15	5	1
1:A:24:LYS:HE3	1:A:48:SER:N	0.41	2.30	14	1
1:A:81:LYS:O	1:A:81:LYS:HD2	0.41	2.15	18	1
1:A:45:TYR:CG	1:A:47:ILE:CG1	0.41	3.03	24	1
1:A:49:TYR:HB2	1:A:52:LYS:HZ2	0.41	1.73	3	1
1:A:76:SER:O	1:A:80:ASN:N	0.41	2.51	5	1
1:B:10:MET:SD	1:B:34:ASN:CB	0.41	3.08	5	1
1:A:27:LEU:HD11	1:A:38:ALA:CB	0.41	2.45	12	2
1:B:26:LYS:CB	1:B:26:LYS:NZ	0.41	2.83	12	1
1:B:27:LEU:HD11	1:B:29:LEU:HD13	0.41	1.92	17	2
1:B:27:LEU:HD11	1:B:38:ALA:CB	0.41	2.45	21	3
1:A:13:ILE:O	1:A:17:ASN:HB3	0.41	2.15	22	1
1:A:79:ILE:O	1:A:82:LEU:N	0.41	2.49	22	1
1:B:90:GLU:OE2	1:B:91:ILE:N	0.41	2.46	22	1
1:B:45:TYR:CE2	1:B:47:ILE:CD1	0.41	3.04	23	1
1:B:82:LEU:HD13	1:B:84:ILE:N	0.41	2.29	23	1
1:B:36:LEU:O	1:B:37:LYS:HG2	0.41	2.15	8	2
1:B:24:LYS:C	1:B:45:TYR:HA	0.41	2.40	2	1
1:B:26:LYS:HD2	1:B:41:SER:O	0.41	2.15	4	1
1:B:22:LYS:H	1:B:24:LYS:HZ1	0.41	1.56	6	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:58:VAL:CG2	1:B:59:ASN:OD1	0.41	2.55	7	1
1:A:32:ASN:ND2	1:A:35:GLN:HB2	0.41	2.30	8	1
1:B:32:ASN:ND2	1:B:35:GLN:HB2	0.41	2.30	8	1
1:B:61:GLU:HG2	1:B:92:LYS:HZ1	0.41	1.75	11	1
1:A:62:LYS:HB2	1:A:62:LYS:HZ2	0.41	1.76	12	1
1:A:83:ASN:ND2	1:A:83:ASN:C	0.41	2.77	12	1
1:B:45:TYR:O	1:B:47:ILE:CD1	0.41	2.69	15	1
1:A:27:LEU:CD1	1:A:39:THR:O	0.41	2.67	17	1
1:B:58:VAL:HG13	1:B:59:ASN:HD21	0.41	1.71	18	1
1:A:24:LYS:HG2	1:A:48:SER:N	0.41	2.30	20	1
1:A:32:ASN:C	1:A:32:ASN:ND2	0.41	2.78	21	1
1:A:45:TYR:CE2	1:A:47:ILE:CD1	0.41	3.04	23	1
1:B:45:TYR:CZ	1:B:71:THR:HG21	0.41	2.50	23	1
1:B:23:GLY:O	1:B:48:SER:CB	0.41	2.67	24	1
1:A:58:VAL:CG2	1:A:85:LYS:HD3	0.41	2.45	1	1
1:B:27:LEU:HD12	1:B:28:SER:N	0.41	2.31	19	2
1:A:45:TYR:CE1	1:A:47:ILE:HG12	0.41	2.50	4	1
1:B:53:ASN:C	1:B:54:TRP:HD1	0.41	2.22	7	1
1:A:10:MET:N	1:A:13:ILE:HD11	0.41	2.31	9	1
1:A:52:LYS:N	1:A:68:GLU:HB2	0.41	2.30	10	1
1:A:34:ASN:O	1:A:84:ILE:HG13	0.41	2.13	13	1
1:A:23:GLY:HA3	1:A:46:GLY:H	0.41	1.72	15	1
1:A:21:ASN:ND2	1:A:29:LEU:HD21	0.41	2.30	19	1
1:B:24:LYS:HE2	1:B:24:LYS:H	0.41	1.75	25	3
1:B:11:ASN:C	1:B:13:ILE:N	0.41	2.76	4	2
1:B:13:ILE:CD1	1:B:14:ASN:ND2	0.41	2.82	6	2
1:A:64:TYR:HH	1:A:66:PHE:HD1	0.41	1.44	8	1
1:A:45:TYR:CG	1:A:47:ILE:HD13	0.41	2.51	13	1
1:A:27:LEU:HA	1:A:39:THR:O	0.41	2.14	15	1
1:A:45:TYR:CE1	1:A:71:THR:HG22	0.41	2.50	17	1
1:B:81:LYS:O	1:B:81:LYS:HD2	0.41	2.15	18	1
1:A:82:LEU:HD12	1:A:82:LEU:N	0.41	2.29	19	1
1:A:47:ILE:HD13	1:A:47:ILE:H	0.41	1.75	21	1
1:B:21:ASN:OD1	1:B:27:LEU:HD23	0.41	2.15	21	1
1:B:32:ASN:ND2	1:B:32:ASN:C	0.41	2.78	21	1
1:A:21:ASN:ND2	1:A:22:LYS:N	0.41	2.62	22	1
1:B:10:MET:N	1:B:10:MET:SD	0.41	2.94	24	1
1:B:40:SER:OG	1:B:73:GLY:CA	0.41	2.68	5	1
1:B:10:MET:N	1:B:13:ILE:HD11	0.41	2.31	9	1
1:A:52:LYS:HB3	1:B:94:ILE:HG21	0.41	1.90	10	1
1:A:24:LYS:NZ	1:A:68:GLU:CD	0.41	2.78	12	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:24:LYS:NZ	1:B:68:GLU:CD	0.41	2.79	12	1
1:B:67:ASN:O	1:B:70:SER:N	0.41	2.53	12	1
1:B:90:GLU:CD	1:B:91:ILE:H	0.41	2.23	16	2
1:A:45:TYR:O	1:A:47:ILE:CD1	0.41	2.69	15	1
1:A:27:LEU:HD11	1:A:29:LEU:HD13	0.41	1.92	17	2
1:B:13:ILE:O	1:B:14:ASN:C	0.41	2.64	18	1
1:B:21:ASN:ND2	1:B:29:LEU:HD21	0.41	2.30	19	1
1:B:11:ASN:C	1:B:13:ILE:HD12	0.41	2.40	22	1
1:A:10:MET:SD	1:A:34:ASN:CB	0.41	3.08	5	1
1:A:34:ASN:ND2	1:A:87:MET:HE1	0.41	2.31	5	1
1:B:20:LEU:CD1	1:B:36:LEU:HD22	0.41	2.45	7	1
1:A:16:VAL:HG22	1:B:90:GLU:OE2	0.41	2.15	10	1
1:A:56:ILE:HG13	1:B:91:ILE:CG2	0.41	2.45	12	1
1:A:87:MET:SD	1:B:87:MET:HE2	0.41	2.54	12	1
1:A:47:ILE:O	1:A:48:SER:HB3	0.41	2.15	13	1
1:B:24:LYS:HE3	1:B:46:GLY:C	0.41	2.40	14	1
1:B:77:ASN:HA	1:B:80:ASN:ND2	0.41	2.31	17	1
1:A:13:ILE:O	1:A:16:VAL:N	0.41	2.52	18	1
1:A:32:ASN:ND2	1:A:35:GLN:CG	0.41	2.84	18	1
1:A:82:LEU:C	1:A:83:ASN:ND2	0.41	2.79	22	1
1:A:45:TYR:CZ	1:A:71:THR:HG21	0.41	2.50	23	1
1:A:24:LYS:C	1:A:45:TYR:HA	0.41	2.41	2	1
1:A:24:LYS:CE	1:A:68:GLU:OE1	0.41	2.69	2	1
1:B:24:LYS:CE	1:B:24:LYS:H	0.41	2.29	3	1
1:B:24:LYS:NZ	1:B:24:LYS:CA	0.41	2.83	4	1
1:A:12:SER:CB	1:A:86:GLY:O	0.41	2.68	8	1
1:A:20:LEU:HA	1:A:54:TRP:CH2	0.41	2.50	8	1
1:A:24:LYS:HZ2	1:A:24:LYS:HA	0.41	1.76	8	1
1:A:59:ASN:O	1:A:90:GLU:CB	0.41	2.69	10	1
1:A:59:ASN:HB2	1:A:88:TYR:CZ	0.41	2.51	10	2
1:B:27:LEU:HD12	1:B:38:ALA:HB1	0.41	1.92	11	1
1:A:34:ASN:O	1:A:83:ASN:ND2	0.41	2.54	14	1
1:A:58:VAL:HG13	1:A:59:ASN:CG	0.41	2.41	18	1
1:B:49:TYR:O	1:B:50:GLU:HB2	0.41	2.16	20	1
1:A:21:ASN:OD1	1:A:27:LEU:HD23	0.41	2.15	21	1
1:B:52:LYS:HB2	1:B:52:LYS:NZ	0.41	2.31	25	1
1:A:91:ILE:CD1	1:B:56:ILE:HG23	0.41	2.29	1	1
1:B:58:VAL:CG2	1:B:85:LYS:CD	0.41	2.99	1	1
1:B:58:VAL:CG2	1:B:85:LYS:HD3	0.41	2.45	1	1
1:B:24:LYS:CE	1:B:68:GLU:OE1	0.41	2.69	2	1
1:A:27:LEU:HD12	1:A:28:SER:N	0.41	2.31	19	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:40:SER:OG	1:A:73:GLY:CA	0.41	2.68	5	1
1:B:59:ASN:HB2	1:B:88:TYR:CZ	0.41	2.51	10	1
1:A:54:TRP:N	1:A:66:PHE:O	0.41	2.54	11	1
1:B:10:MET:HE2	1:B:87:MET:CE	0.41	2.40	11	1
1:B:48:SER:C	1:B:50:GLU:N	0.41	2.78	11	1
1:A:49:TYR:O	1:A:52:LYS:HE2	0.41	2.15	13	1
1:B:34:ASN:HB2	1:B:85:LYS:CA	0.41	2.46	13	1
1:B:66:PHE:HD2	1:B:66:PHE:H	0.41	1.56	14	1
1:A:77:ASN:HA	1:A:80:ASN:ND2	0.41	2.31	17	1
1:B:45:TYR:CE1	1:B:71:THR:HG22	0.41	2.50	17	1
1:B:66:PHE:N	1:B:66:PHE:HD1	0.41	2.11	17	1
1:A:13:ILE:O	1:A:14:ASN:C	0.41	2.63	18	1
1:B:32:ASN:ND2	1:B:35:GLN:CG	0.41	2.84	18	1
1:B:24:LYS:HG2	1:B:48:SER:N	0.41	2.30	20	1
1:A:56:ILE:HD13	1:A:64:TYR:O	0.41	2.16	21	1
1:B:81:LYS:HG3	1:B:82:LEU:N	0.41	2.31	22	1
1:A:22:LYS:HD2	1:A:54:TRP:HE1	0.41	1.76	23	1
1:A:45:TYR:CD2	1:A:71:THR:CG2	0.41	3.04	23	1
1:A:88:TYR:CD1	1:A:89:ILE:O	0.41	2.74	23	1
1:B:52:LYS:C	1:B:53:ASN:HD22	0.41	2.23	23	1
1:B:88:TYR:CD1	1:B:89:ILE:O	0.41	2.74	23	1
1:A:23:GLY:N	1:A:48:SER:HB3	0.41	2.31	24	1
1:A:50:GLU:O	1:A:68:GLU:HB2	0.41	2.16	24	1
1:A:20:LEU:HG	1:A:54:TRP:CZ2	0.41	2.51	3	2
1:B:45:TYR:CE1	1:B:47:ILE:HG12	0.41	2.50	4	1
1:B:50:GLU:CB	1:B:52:LYS:HZ3	0.41	2.29	6	1
1:A:20:LEU:CD1	1:A:36:LEU:HD22	0.41	2.45	7	1
1:A:23:GLY:C	1:A:24:LYS:NZ	0.41	2.78	8	1
1:A:89:ILE:O	1:A:90:GLU:CB	0.41	2.69	12	1
1:A:90:GLU:CD	1:A:91:ILE:H	0.41	2.23	16	2
1:A:17:ASN:ND2	1:A:29:LEU:C	0.41	2.78	13	1
1:B:24:LYS:CB	1:B:47:ILE:HD12	0.41	2.47	14	1
1:A:45:TYR:CD1	1:A:71:THR:HG22	0.41	2.51	17	1
1:A:88:TYR:CD2	1:A:89:ILE:O	0.41	2.74	20	1
1:B:22:LYS:HD2	1:B:54:TRP:HE1	0.41	1.76	23	1
1:A:24:LYS:H	1:A:24:LYS:HE2	0.41	1.75	25	1
1:A:88:TYR:OH	1:A:90:GLU:HG2	0.41	2.15	25	1
1:A:52:LYS:CB	1:B:94:ILE:HG22	0.40	2.46	3	1
1:B:20:LEU:HG	1:B:54:TRP:CZ2	0.40	2.51	25	3
1:B:20:LEU:HA	1:B:54:TRP:CH2	0.40	2.50	8	1
1:A:25:GLY:CA	1:A:43:ALA:HA	0.40	2.47	14	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:26:LYS:CE	1:B:42:ASN:ND2	0.40	2.85	15	1
1:B:56:ILE:O	1:B:57:PHE:CD2	0.40	2.71	15	1
1:A:10:MET:N	1:A:10:MET:HE2	0.40	2.30	21	1
1:A:54:TRP:CZ2	1:B:93:GLN:HB3	0.40	2.50	23	1
1:A:10:MET:N	1:A:10:MET:SD	0.40	2.94	24	1
1:B:81:LYS:O	1:B:81:LYS:HD3	0.40	2.16	24	1
1:A:52:LYS:HB2	1:A:52:LYS:NZ	0.40	2.31	25	1
1:B:56:ILE:H	1:B:62:LYS:NZ	0.40	2.12	1	1
1:B:13:ILE:CD1	1:B:13:ILE:N	0.40	2.83	6	1
1:B:16:VAL:HG12	1:B:20:LEU:HD23	0.40	1.91	8	1
1:B:54:TRP:N	1:B:66:PHE:O	0.40	2.55	8	2
1:A:34:ASN:HB2	1:A:85:LYS:CA	0.40	2.46	13	1
1:B:34:ASN:O	1:B:84:ILE:HG12	0.40	2.14	13	1
1:B:49:TYR:O	1:B:52:LYS:HE2	0.40	2.15	13	1
1:A:26:LYS:CE	1:A:42:ASN:ND2	0.40	2.85	15	1
1:A:56:ILE:O	1:A:57:PHE:CD2	0.40	2.71	15	1
1:A:34:ASN:HA	1:A:86:GLY:N	0.40	2.32	15	2
1:A:48:SER:C	1:A:50:GLU:N	0.40	2.78	11	1
1:A:27:LEU:CD2	1:A:29:LEU:HD11	0.40	2.45	12	1
1:A:20:LEU:C	1:A:22:LYS:N	0.40	2.80	15	1
1:B:37:LYS:HB2	1:B:37:LYS:NZ	0.40	2.31	16	1
1:B:43:ALA:O	1:B:45:TYR:CZ	0.40	2.73	18	1
1:B:10:MET:N	1:B:10:MET:HE2	0.40	2.30	21	1
1:B:47:ILE:HD13	1:B:47:ILE:H	0.40	1.75	21	1
1:B:70:SER:O	1:B:71:THR:HG23	0.40	2.16	22	1
1:B:34:ASN:ND2	1:B:87:MET:HE1	0.40	2.31	5	1
1:B:10:MET:O	1:B:13:ILE:CG1	0.40	2.70	9	1
1:A:79:ILE:O	1:A:82:LEU:CG	0.40	2.70	10	1
1:A:93:GLN:HB3	1:B:19:LYS:NZ	0.40	2.32	11	1
1:A:74:ASN:OD1	1:A:74:ASN:C	0.40	2.62	22	1
1:B:23:GLY:N	1:B:48:SER:HB3	0.40	2.31	24	1
1:B:44:GLY:O	1:B:45:TYR:CB	0.40	2.67	24	1
1:B:50:GLU:O	1:B:68:GLU:HB2	0.40	2.16	24	1
1:A:58:VAL:CG2	1:A:85:LYS:CD	0.40	2.99	1	1
1:A:54:TRP:HB2	1:A:66:PHE:O	0.40	2.17	2	1
1:B:56:ILE:O	1:B:63:VAL:N	0.40	2.55	9	1
1:A:16:VAL:HG13	1:B:91:ILE:HG13	0.40	1.93	11	1
1:A:91:ILE:CG2	1:B:56:ILE:HG13	0.40	2.46	12	1
1:B:45:TYR:CG	1:B:47:ILE:CD1	0.40	3.04	13	1
1:B:20:LEU:C	1:B:22:LYS:N	0.40	2.80	15	1
1:A:35:GLN:HG2	1:A:84:ILE:C	0.40	2.41	20	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:88:TYR:OH	1:B:90:GLU:HG2	0.40	2.15	25	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	84/94 (89%)	49±3 (59±3%)	18±2 (21±3%)	17±3 (20±3%)	0	2
1	B	84/94 (89%)	49±3 (59±3%)	18±2 (21±3%)	17±3 (20±3%)	0	2
All	All	4200/4700 (89%)	2473 (59%)	882 (21%)	845 (20%)	0	2

All 72 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	62	LYS	25
1	A	76	SER	25
1	A	79	ILE	25
1	A	84	ILE	25
1	B	62	LYS	25
1	B	76	SER	25
1	B	79	ILE	25
1	B	84	ILE	25
1	A	63	VAL	24
1	A	80	ASN	24
1	B	63	VAL	24
1	B	80	ASN	24
1	A	11	ASN	23
1	B	11	ASN	23
1	A	50	GLU	22
1	B	50	GLU	22
1	A	33	GLY	20
1	A	71	THR	20
1	B	33	GLY	20
1	B	71	THR	20

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Mol	Chain	Res	Type	Models (Total)
1	A	24	LYS	16
1	B	24	LYS	16
1	A	48	SER	16
1	B	48	SER	16
1	A	46	GLY	15
1	A	59	ASN	15
1	B	59	ASN	15
1	A	20	LEU	14
1	A	70	SER	14
1	B	20	LEU	14
1	B	46	GLY	14
1	B	70	SER	14
1	A	42	ASN	10
1	A	44	GLY	10
1	B	42	ASN	10
1	B	44	GLY	10
1	A	72	VAL	9
1	B	72	VAL	9
1	A	25	GLY	9
1	B	25	GLY	9
1	A	75	ILE	7
1	B	75	ILE	7
1	A	47	ILE	7
1	B	47	ILE	7
1	A	43	ALA	6
1	B	43	ALA	6
1	A	13	ILE	5
1	B	13	ILE	5
1	A	21	ASN	5
1	A	87	MET	5
1	B	21	ASN	5
1	B	87	MET	5
1	A	23	GLY	5
1	B	23	GLY	5
1	A	83	ASN	4
1	B	83	ASN	4
1	A	45	TYR	4
1	B	45	TYR	4
1	A	15	SER	3
1	B	15	SER	3
1	A	22	LYS	3
1	B	22	LYS	3

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Mol	Chain	Res	Type	Models (Total)
1	A	86	GLY	3
1	B	86	GLY	3
1	A	68	GLU	2
1	B	68	GLU	2
1	A	49	TYR	1
1	B	49	TYR	1
1	A	51	ASP	1
1	B	51	ASP	1
1	A	34	ASN	1
1	B	34	ASN	1

6.3.2 Protein sidechains (i)

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	74/82 (90%)	40±3 (54±5%)	34±3 (46±5%)	0 2
1	B	74/82 (90%)	40±3 (54±5%)	34±3 (46±5%)	0 2
All	All	3700/4100 (90%)	2003 (54%)	1697 (46%)	0 2

All 124 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	19	LYS	25
1	A	29	LEU	25
1	A	89	ILE	25
1	A	93	GLN	25
1	B	19	LYS	25
1	B	29	LEU	25
1	B	89	ILE	25
1	B	93	GLN	25
1	A	28	SER	23
1	A	47	ILE	23
1	A	81	LYS	23
1	B	28	SER	23
1	B	47	ILE	23
1	B	81	LYS	23

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Mol	Chain	Res	Type	Models (Total)
1	A	30	SER	23
1	B	30	SER	23
1	A	20	LEU	22
1	A	26	LYS	22
1	B	20	LEU	22
1	B	26	LYS	22
1	A	10	MET	22
1	A	67	ASN	22
1	B	10	MET	22
1	B	67	ASN	22
1	A	31	MET	21
1	A	41	SER	21
1	A	42	ASN	21
1	A	72	VAL	21
1	B	31	MET	21
1	B	41	SER	21
1	B	42	ASN	21
1	B	72	VAL	21
1	A	48	SER	20
1	A	71	THR	20
1	B	48	SER	20
1	B	71	THR	20
1	A	74	ASN	20
1	B	74	ASN	20
1	A	13	ILE	19
1	A	66	PHE	19
1	B	13	ILE	19
1	B	66	PHE	19
1	A	85	LYS	19
1	B	85	LYS	19
1	A	18	ASP	18
1	A	90	GLU	18
1	B	18	ASP	18
1	B	90	GLU	18
1	A	24	LYS	18
1	B	24	LYS	18
1	A	53	ASN	18
1	B	53	ASN	18
1	A	17	ASN	17
1	A	62	LYS	17
1	B	17	ASN	17
1	B	62	LYS	17

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Mol	Chain	Res	Type	Models (Total)
1	A	34	ASN	16
1	A	82	LEU	16
1	B	34	ASN	16
1	B	82	LEU	16
1	A	59	ASN	15
1	B	59	ASN	15
1	A	91	ILE	15
1	B	91	ILE	15
1	A	45	TYR	14
1	B	45	TYR	14
1	A	27	LEU	14
1	B	27	LEU	14
1	A	84	ILE	12
1	B	84	ILE	12
1	A	36	LEU	11
1	B	36	LEU	11
1	A	76	SER	10
1	B	76	SER	10
1	A	65	THR	10
1	B	65	THR	10
1	A	12	SER	9
1	A	77	ASN	9
1	B	12	SER	9
1	B	77	ASN	9
1	A	15	SER	9
1	A	57	PHE	9
1	A	87	MET	9
1	B	15	SER	9
1	B	57	PHE	9
1	B	87	MET	9
1	A	68	GLU	9
1	B	68	GLU	9
1	A	37	LYS	7
1	A	78	ASP	7
1	B	37	LYS	7
1	B	78	ASP	7
1	A	49	TYR	7
1	A	92	LYS	7
1	B	49	TYR	7
1	B	92	LYS	7
1	A	63	VAL	6
1	B	63	VAL	6

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Mol	Chain	Res	Type	Models (Total)
1	B	80	ASN	6
1	A	32	ASN	5
1	B	32	ASN	5
1	A	80	ASN	5
1	A	69	LYS	5
1	B	69	LYS	5
1	A	83	ASN	4
1	B	83	ASN	4
1	A	52	LYS	4
1	B	52	LYS	4
1	A	51	ASP	4
1	B	51	ASP	4
1	A	21	ASN	3
1	B	21	ASN	3
1	A	40	SER	3
1	B	40	SER	3
1	A	35	GLN	2
1	B	35	GLN	2
1	A	54	TRP	2
1	B	54	TRP	2
1	A	11	ASN	1
1	B	11	ASN	1
1	A	14	ASN	1
1	B	14	ASN	1
1	A	22	LYS	1
1	B	22	LYS	1

6.3.3 RNA (i)

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

6.6 Ligand geometry

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 17% for the well-defined parts and 17% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *pdb_deposit_nmrstar.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	424
Number of shifts mapped to atoms	424
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	0

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction ± precision, *ppm*	Suggested action
$^{13}C_{\alpha}$	93	-0.63 ± 0.13	Should be applied
$^{13}C_{\beta}$	83	-0.32 ± 0.13	None needed (< 0.5 ppm)
$^{13}C'$	65	-0.28 ± 0.19	None needed (< 0.5 ppm)
^{15}N	91	-0.13 ± 0.44	None needed (< 0.5 ppm)

7.1.3 Completeness of resonance assignments

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 17%, i.e. 388 atoms were assigned a chemical shift out of a possible 2258. 0 out of 18 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	313/868 (36%)	84/358 (23%)	146/340 (43%)	83/170 (49%)
Sidechain	75/1254 (6%)	0/806 (0%)	75/394 (19%)	0/54 (0%)

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	Total	^{1}H	^{13}C	^{15}N
Aromatic	0/136 (0%)	0/64 (0%)	0/70 (0%)	0/2 (0%)
Overall	388/2258 (17%)	84/1228 (7%)	221/804 (27%)	83/226 (37%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 17%, i.e. 424 atoms were assigned a chemical shift out of a possible 2498. 0 out of 20 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	341/958 (36%)	92/394 (23%)	158/376 (42%)	91/188 (48%)
Sidechain	83/1404 (6%)	0/898 (0%)	83/444 (19%)	0/62 (0%)
Aromatic	0/136 (0%)	0/64 (0%)	0/70 (0%)	0/2 (0%)
Overall	424/2498 (17%)	92/1356 (7%)	241/890 (27%)	91/252 (36%)

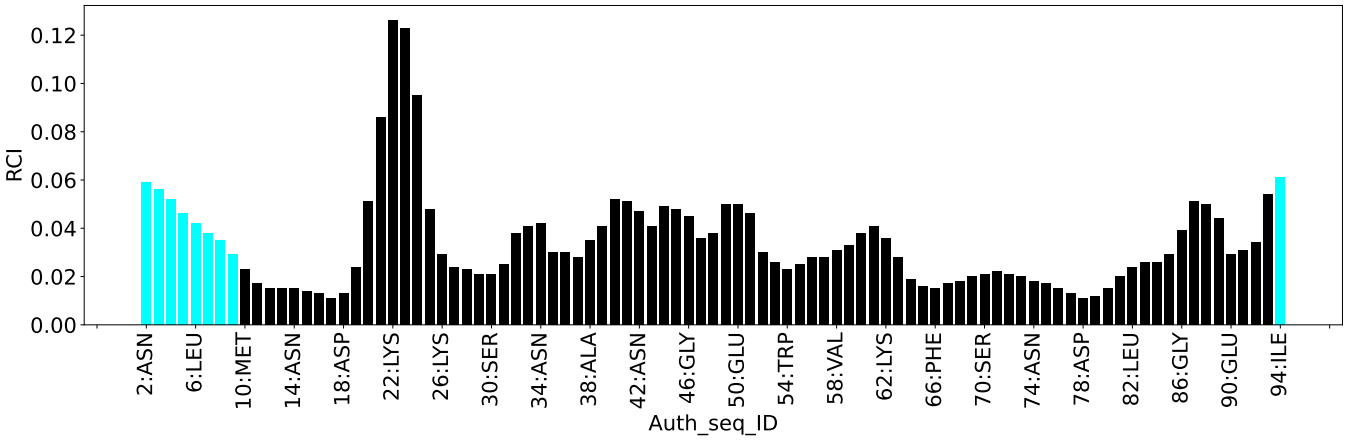
7.1.4 Statistically unusual chemical shifts (i)

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:



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	3014
Intra-residue (|i-j|=0)	1358
Sequential (|i-j|=1)	812
Medium range (|i-j|>1 and |i-j|<5)	320
Long range (|i-j|≥5)	414
Inter-chain	0
Hydrogen bond restraints	110
Disulfide bond restraints	0
Total dihedral-angle restraints	140
Number of unmapped restraints	0
Number of restraints per residue	16.8
Number of long range restraints per residue[1]	2.5

[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)	113.4	0.2
0.2-0.5 (Medium)	74.2	0.5
>0.5 (Large)	30.6	28.48

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

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

Bins (°)	Average number of violations per model	Max (°)
1.0-10.0 (Small)	17.7	4.98
10.0-20.0 (Medium)	None	None
>20.0 (Large)	None	None

9 Distance violation analysis (i)

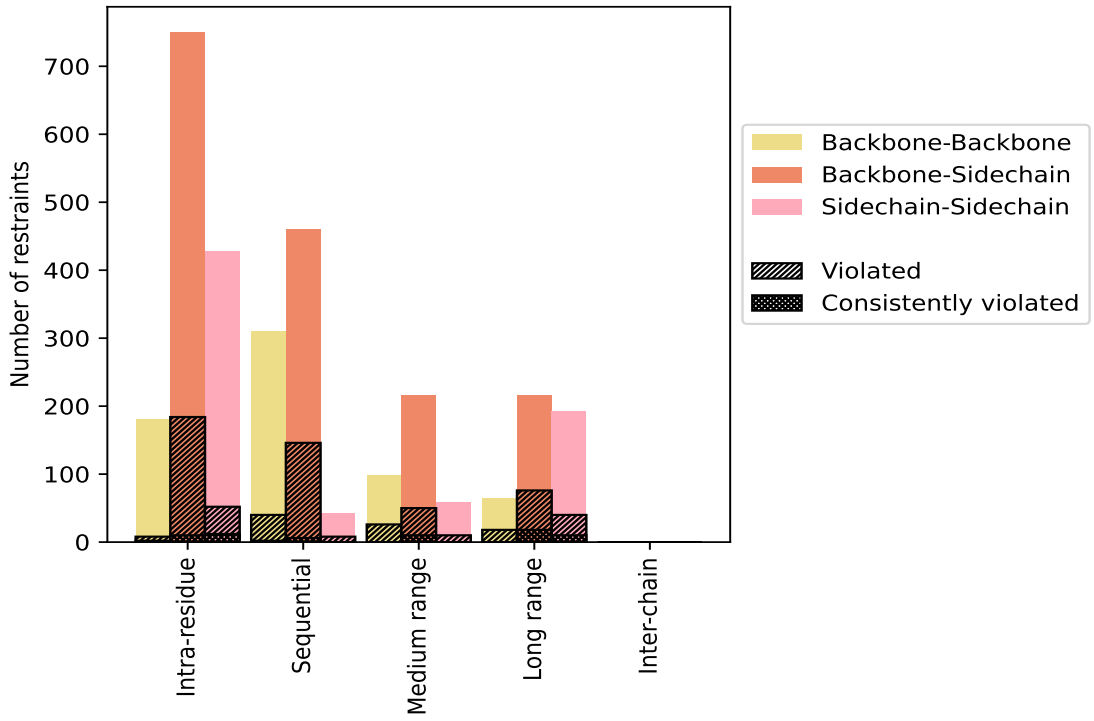
9.1 Summary of distance violations (i)

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

Restraints type	Count	%[1]	Violated[3]			Consistently Violated[4]		
			Count	%[2]	%[1]	Count	%[2]	%[1]
Intra-residue (|i-j|=0)	1358	45.1	244	18.0	8.1	24	1.8	0.8
Backbone-Backbone	180	6.0	8	4.4	0.3	2	1.1	0.1
Backbone-Sidechain	750	24.9	184	24.5	6.1	10	1.3	0.3
Sidechain-Sidechain	428	14.2	52	12.1	1.7	12	2.8	0.4
Sequential (|i-j|=1)	812	26.9	194	23.9	6.4	8	1.0	0.3
Backbone-Backbone	310	10.3	40	12.9	1.3	2	0.6	0.1
Backbone-Sidechain	460	15.3	146	31.7	4.8	6	1.3	0.2
Sidechain-Sidechain	42	1.4	8	19.0	0.3	0	0.0	0.0
Medium range (|i-j|>1 & |i-j|<5)	320	10.6	70	21.9	2.3	6	1.9	0.2
Backbone-Backbone	98	3.3	26	26.5	0.9	0	0.0	0.0
Backbone-Sidechain	164	5.4	34	20.7	1.1	6	3.7	0.2
Sidechain-Sidechain	58	1.9	10	17.2	0.3	0	0.0	0.0
Long range (|i-j|≥5)	414	13.7	114	27.5	3.8	16	3.9	0.5
Backbone-Backbone	64	2.1	18	28.1	0.6	0	0.0	0.0
Backbone-Sidechain	162	5.4	56	34.6	1.9	6	3.7	0.2
Sidechain-Sidechain	188	6.2	40	21.3	1.3	10	5.3	0.3
Inter-chain	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Hydrogen bond	110	3.6	36	32.7	1.2	16	14.5	0.5
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	3014	100.0	658	21.8	21.8	70	2.3	2.3
Backbone-Backbone	652	21.6	92	14.1	3.1	4	0.6	0.1
Backbone-Sidechain	1642	54.5	456	27.8	15.1	44	2.7	1.5
Sidechain-Sidechain	720	23.9	110	15.3	3.6	22	3.1	0.7

[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	84	64	32	52	0	232	1.81	25.67	5.24	0.18
2	78	56	28	54	0	216	1.79	24.09	5.01	0.2
3	82	62	28	52	0	224	1.99	28.32	5.78	0.19
4	86	48	32	54	0	220	2.04	28.38	5.82	0.18
5	88	58	34	58	0	238	1.75	26.43	5.19	0.19
6	72	56	22	58	0	208	2.05	26.91	5.67	0.2
7	80	52	28	52	0	212	1.86	24.43	5.2	0.18
8	80	56	30	48	0	214	1.88	25.34	5.28	0.2
9	78	56	42	52	0	228	1.97	28.39	5.75	0.2
10	84	52	38	44	0	218	1.76	23.85	4.94	0.2

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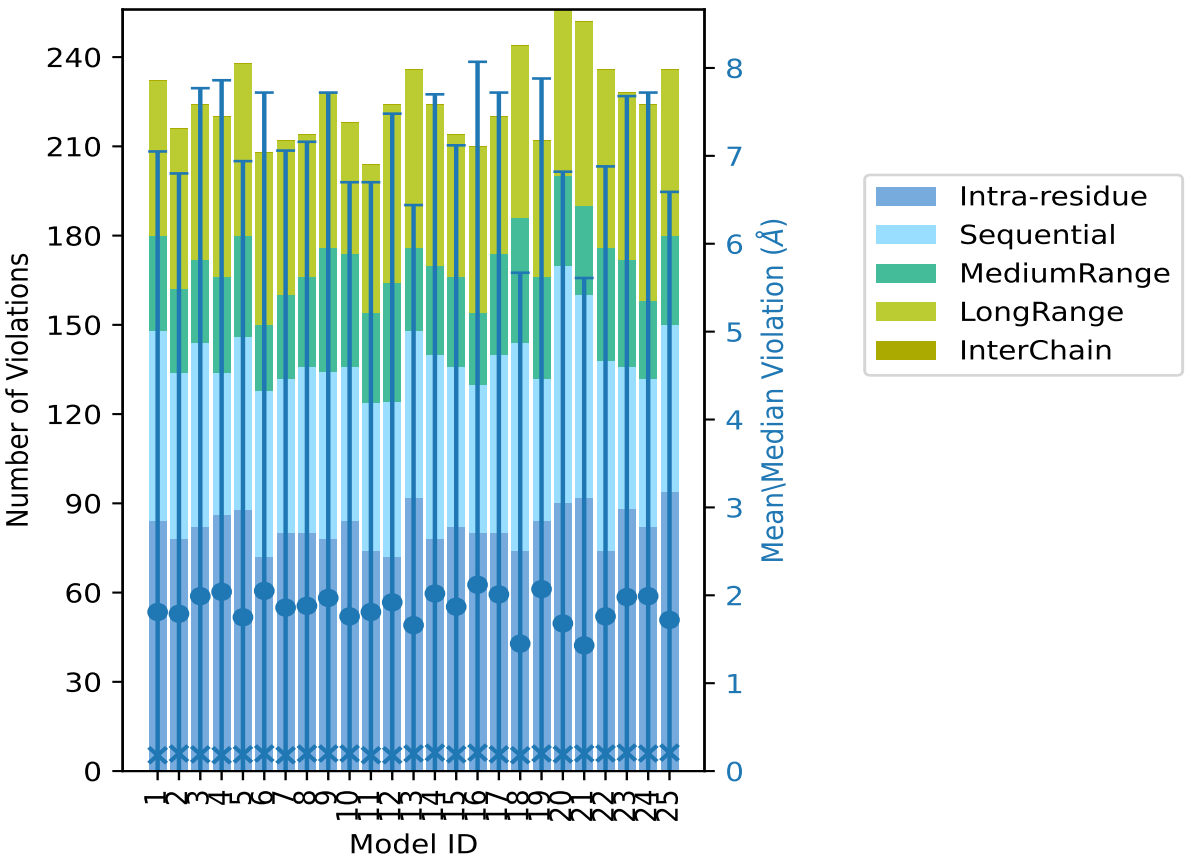
Model ID	Number of violations						Mean (Å)	Max (Å)	SD[6] (Å)	Median (Å)
	IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total				
11	74	50	30	50	0	204	1.81	23.16	4.89	0.18
12	72	52	40	60	0	224	1.92	27.17	5.56	0.18
13	92	56	28	60	0	236	1.66	23.67	4.78	0.2
14	78	62	30	54	0	224	2.02	27.28	5.68	0.21
15	82	54	30	48	0	214	1.87	24.88	5.25	0.19
16	80	50	24	56	0	210	2.12	28.48	5.95	0.21
17	80	60	34	46	0	220	2.01	27.86	5.71	0.19
18	74	70	42	58	0	244	1.45	21.53	4.22	0.18
19	84	48	34	46	0	212	2.07	27.55	5.81	0.2
20	90	80	30	56	0	256	1.68	26.81	5.14	0.19
21	92	68	30	62	0	252	1.43	21.46	4.18	0.2
22	74	64	38	60	0	236	1.76	25.51	5.12	0.2
23	88	48	36	56	0	228	1.98	28.04	5.7	0.21
24	82	50	26	66	0	224	1.99	27.82	5.73	0.2
25	94	56	30	56	0	236	1.72	23.93	4.87	0.21

[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

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, 2282(IR:1114, SQ:618, MR:250, LR:300, IC:0) 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]	%
48	38	10	28	0	124	1	4.0
32	26	10	10	0	78	2	8.0
22	16	8	8	0	54	3	12.0
20	18	4	12	0	54	4	16.0
10	10	0	8	0	28	5	20.0
16	8	6	2	0	32	6	24.0

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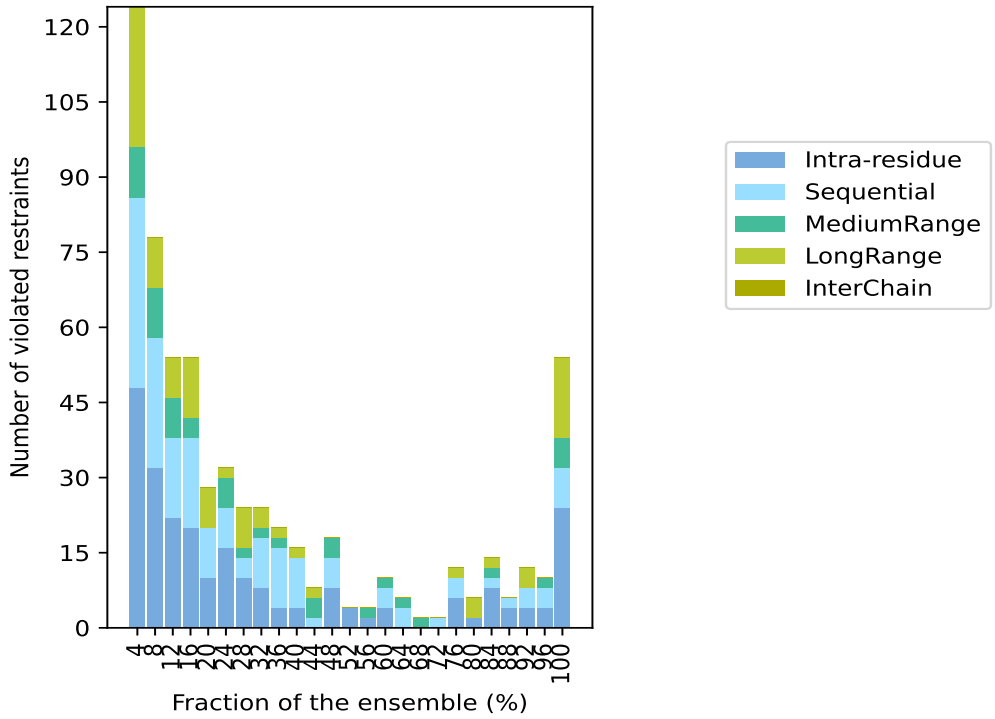
Number of violated restraints						Fraction of the ensemble	
IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total	Count[6]	%
10	4	2	8	0	24	7	28.0
8	10	2	4	0	24	8	32.0
4	12	2	2	0	20	9	36.0
4	10	0	2	0	16	10	40.0
0	2	4	2	0	8	11	44.0
8	6	4	0	0	18	12	48.0
4	0	0	0	0	4	13	52.0
2	0	2	0	0	4	14	56.0
4	4	2	0	0	10	15	60.0
0	4	2	0	0	6	16	64.0
0	0	2	0	0	2	17	68.0
0	2	0	0	0	2	18	72.0
6	4	0	2	0	12	19	76.0
2	0	0	4	0	6	20	80.0
8	2	2	2	0	14	21	84.0
4	2	0	0	0	6	22	88.0
4	4	0	4	0	12	23	92.0
4	4	2	0	0	10	24	96.0
24	8	6	16	0	54	25	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

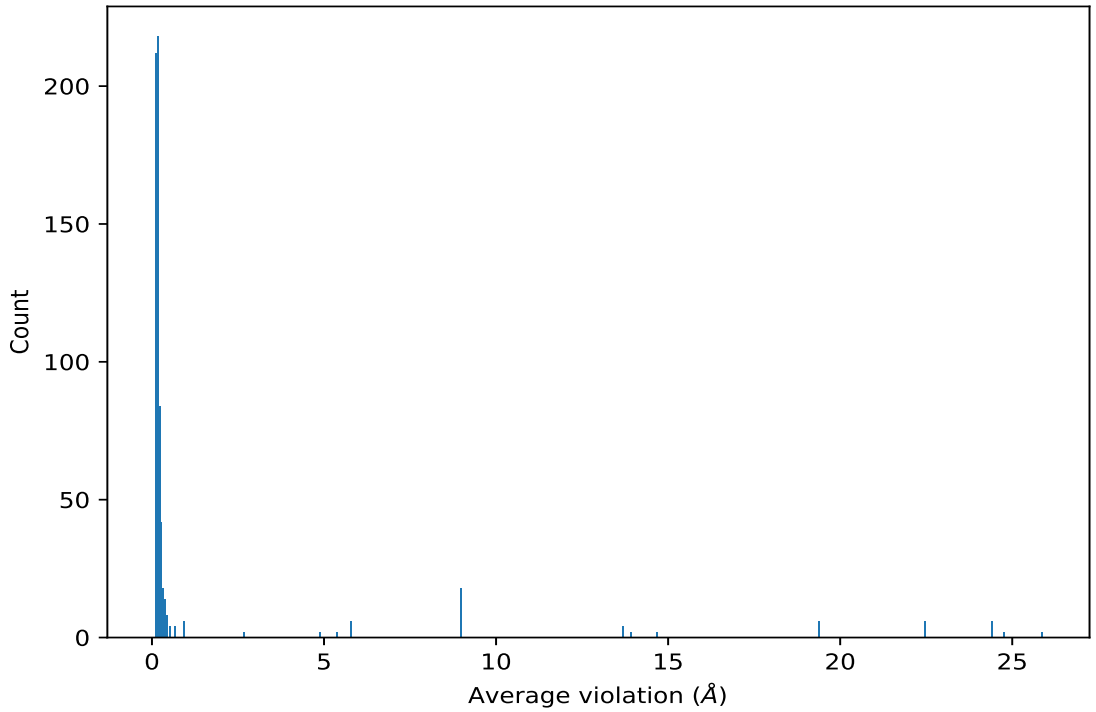
9.3.1 Bar graph : Distance violation statistics for the ensemble



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 (i)

The following table provides the mean and the standard deviation of theviolation 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)
(1,1)	1:94:B:ILE:H	1:53:B:ASN:O	25	25.86	2.15	26.43
(1,2)	1:94:B:ILE:H	1:53:B:ASN:O	25	25.86	2.15	26.43
(1,3)	1:53:B:ASN:O	1:94:B:ILE:N	25	24.77	2.2	25.12
(1,4)	1:53:B:ASN:O	1:94:B:ILE:N	25	24.77	2.2	25.12
(2,1)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	25	24.41	1.42	24.61
(2,1)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	25	24.41	1.42	24.61
(2,1)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	25	24.41	1.42	24.61
(2,2)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	25	24.41	1.42	24.61
(2,2)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	25	24.41	1.42	24.61
(2,2)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	25	24.41	1.42	24.61
(2,15)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	25	22.46	1.43	22.67
(2,15)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	25	22.46	1.43	22.67
(2,15)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	25	22.46	1.43	22.67
(2,16)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	25	22.46	1.43	22.67
(2,16)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	25	22.46	1.43	22.67
(2,16)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	25	22.46	1.43	22.67

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,17)	1:94:B:ILE:HG21	1:54:B:TRP:HA	25	19.35	1.73	19.56
(2,17)	1:94:B:ILE:HG22	1:54:B:TRP:HA	25	19.35	1.73	19.56
(2,17)	1:94:B:ILE:HG23	1:54:B:TRP:HA	25	19.35	1.73	19.56
(2,18)	1:94:B:ILE:HG21	1:54:B:TRP:HA	25	19.35	1.73	19.56
(2,18)	1:94:B:ILE:HG22	1:54:B:TRP:HA	25	19.35	1.73	19.56
(2,18)	1:94:B:ILE:HG23	1:54:B:TRP:HA	25	19.35	1.73	19.56
(1,5)	1:55:B:GLY:O	1:92:B:LYS:H	25	14.68	1.45	15.06
(1,6)	1:92:B:LYS:H	1:55:B:GLY:O	25	14.68	1.45	15.06
(1,7)	1:92:B:LYS:N	1:55:B:GLY:O	25	13.93	1.38	14.05
(1,8)	1:55:B:GLY:O	1:92:B:LYS:N	25	13.93	1.38	14.05
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB2	25	13.69	1.61	13.74
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB3	25	13.69	1.61	13.74
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB2	25	13.69	1.61	13.74
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB3	25	13.69	1.61	13.74
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	25	8.99	0.89	9.28
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	25	8.99	0.89	9.28
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	25	8.99	0.89	9.28
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	25	8.99	0.89	9.28
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	25	8.99	0.89	9.28
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	25	8.99	0.89	9.28
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	25	8.99	0.89	9.28
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	25	8.99	0.89	9.28
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	25	8.99	0.89	9.28
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	25	8.99	0.89	9.28
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	25	8.99	0.89	9.28
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	25	8.99	0.89	9.28
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	25	8.99	0.89	9.28
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	25	8.99	0.89	9.28
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	25	8.99	0.89	9.28
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	25	8.99	0.89	9.28
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	25	8.99	0.89	9.28
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	25	8.99	0.89	9.28
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD11	25	5.79	0.9	5.51
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD12	25	5.79	0.9	5.51
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD13	25	5.79	0.9	5.51
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD11	25	5.79	0.9	5.51
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD12	25	5.79	0.9	5.51
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD13	25	5.79	0.9	5.51
(1,9)	1:90:B:GLU:H	1:57:B:PHE:O	25	5.38	0.47	5.51
(1,11)	1:90:B:GLU:H	1:57:B:PHE:O	25	5.38	0.47	5.51
(1,10)	1:57:B:PHE:O	1:90:B:GLU:N	25	4.88	0.42	4.91
(1,12)	1:57:B:PHE:O	1:90:B:GLU:N	25	4.88	0.42	4.91

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,21)	1:58:B:VAL:HA	1:89:B:ILE:HB	25	2.67	0.33	2.59
(2,22)	1:58:B:VAL:HA	1:89:B:ILE:HB	25	2.67	0.33	2.59
(2,1424)	1:75:B:ILE:HD11	1:70:B:SER:HB3	25	0.92	0.04	0.92
(2,1424)	1:75:B:ILE:HD12	1:70:B:SER:HB3	25	0.92	0.04	0.92
(2,1424)	1:75:B:ILE:HD13	1:70:B:SER:HB3	25	0.92	0.04	0.92
(2,2856)	1:75:B:ILE:HD11	1:70:B:SER:HB3	25	0.92	0.04	0.92
(2,2856)	1:75:B:ILE:HD12	1:70:B:SER:HB3	25	0.92	0.04	0.92
(2,2856)	1:75:B:ILE:HD13	1:70:B:SER:HB3	25	0.92	0.04	0.92
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	25	0.51	0.11	0.55
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	25	0.51	0.11	0.55
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	25	0.51	0.11	0.55
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	25	0.51	0.11	0.55
(2,1050)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	25	0.43	0.01	0.43
(2,2482)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	25	0.43	0.01	0.43
(2,223)	1:79:B:ILE:HA	1:79:B:ILE:HG13	25	0.42	0.03	0.42
(2,1655)	1:79:B:ILE:HA	1:79:B:ILE:HG13	25	0.42	0.03	0.42
(2,819)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	25	0.39	0.05	0.38
(2,2251)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	25	0.39	0.05	0.38
(2,1347)	1:67:B:ASN:H	1:66:B:PHE:H	25	0.38	0.04	0.39
(2,2779)	1:67:B:ASN:H	1:66:B:PHE:H	25	0.38	0.04	0.39
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD1	25	0.35	0.08	0.34
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD2	25	0.35	0.08	0.34
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD1	25	0.35	0.08	0.34
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD2	25	0.35	0.08	0.34
(2,33)	1:87:B:MET:HG3	1:87:B:MET:H	25	0.29	0.07	0.33
(2,1465)	1:87:B:MET:HG3	1:87:B:MET:H	25	0.29	0.07	0.33
(2,272)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	25	0.29	0.04	0.31
(2,1704)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	25	0.29	0.04	0.31
(2,70)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	25	0.28	0.06	0.28
(2,1502)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	25	0.28	0.06	0.28
(1,44)	1:58:B:VAL:H	1:62:B:LYS:O	25	0.28	0.05	0.28
(1,91)	1:58:B:VAL:H	1:62:B:LYS:O	25	0.28	0.05	0.28
(2,1147)	1:57:B:PHE:HB2	1:60:B:GLY:H	25	0.26	0.07	0.26
(2,2579)	1:57:B:PHE:HB2	1:60:B:GLY:H	25	0.26	0.07	0.26
(2,724)	1:38:B:ALA:H	1:37:B:LYS:HB2	25	0.26	0.04	0.26
(2,2156)	1:38:B:ALA:H	1:37:B:LYS:HB2	25	0.26	0.04	0.26
(2,129)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	25	0.26	0.05	0.28
(2,1561)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	25	0.26	0.05	0.28
(2,1358)	1:8:B:GLU:H	1:8:B:GLU:HA	25	0.25	0.03	0.26
(2,2790)	1:8:B:GLU:H	1:8:B:GLU:HA	25	0.25	0.03	0.26
(2,549)	1:58:B:VAL:H	1:61:B:GLU:HB2	25	0.22	0.07	0.21
(2,1981)	1:58:B:VAL:H	1:61:B:GLU:HB2	25	0.22	0.07	0.21

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,852)	1:66:B:PHE:H	1:64:B:TYR:HB3	25	0.21	0.04	0.21
(2,2284)	1:66:B:PHE:H	1:64:B:TYR:HB3	25	0.21	0.04	0.21
(2,1119)	1:39:B:THR:H	1:39:B:THR:HB	25	0.2	0.01	0.2
(2,2551)	1:39:B:THR:H	1:39:B:THR:HB	25	0.2	0.01	0.2
(2,281)	1:38:B:ALA:H	1:37:B:LYS:HB3	25	0.2	0.04	0.21
(2,1713)	1:38:B:ALA:H	1:37:B:LYS:HB3	25	0.2	0.04	0.21
(2,291)	1:67:B:ASN:H	1:67:B:ASN:HD22	25	0.19	0.04	0.18
(2,1723)	1:67:B:ASN:H	1:67:B:ASN:HD22	25	0.19	0.04	0.18
(1,52)	1:78:B:ASP:H	1:74:B:ASN:O	25	0.18	0.03	0.18
(1,99)	1:78:B:ASP:H	1:74:B:ASN:O	25	0.18	0.03	0.18
(2,930)	1:4:B:LYS:H	1:4:B:LYS:HG3	25	0.18	0.03	0.18
(2,2362)	1:4:B:LYS:H	1:4:B:LYS:HG3	25	0.18	0.03	0.18
(2,621)	1:86:B:GLY:H	1:87:B:MET:HB2	24	0.24	0.08	0.26
(2,2053)	1:86:B:GLY:H	1:87:B:MET:HB2	24	0.24	0.08	0.26
(2,1163)	1:27:B:LEU:H	1:27:B:LEU:HB2	24	0.23	0.05	0.24
(2,2595)	1:27:B:LEU:H	1:27:B:LEU:HB2	24	0.23	0.05	0.24
(2,847)	1:58:B:VAL:H	1:61:B:GLU:HB3	24	0.2	0.05	0.19
(2,2279)	1:58:B:VAL:H	1:61:B:GLU:HB3	24	0.2	0.05	0.19
(2,1357)	1:11:B:ASN:H	1:11:B:ASN:HA	24	0.16	0.04	0.15
(2,2789)	1:11:B:ASN:H	1:11:B:ASN:HA	24	0.16	0.04	0.15
(2,1104)	1:64:B:TYR:H	1:63:B:VAL:H	24	0.14	0.03	0.14
(2,2536)	1:64:B:TYR:H	1:63:B:VAL:H	24	0.14	0.03	0.14
(2,1359)	1:12:B:SER:H	1:13:B:ILE:HA	23	0.23	0.05	0.24
(2,2791)	1:12:B:SER:H	1:13:B:ILE:HA	23	0.23	0.05	0.24
(2,354)	1:56:B:ILE:HB	1:66:B:PHE:HZ	23	0.21	0.05	0.2
(2,1786)	1:56:B:ILE:HB	1:66:B:PHE:HZ	23	0.21	0.05	0.2
(2,371)	1:89:B:ILE:HB	1:88:B:TYR:HA	23	0.17	0.03	0.17
(2,1803)	1:89:B:ILE:HB	1:88:B:TYR:HA	23	0.17	0.03	0.17
(2,321)	1:29:B:LEU:HB2	1:38:B:ALA:HA	23	0.17	0.04	0.18
(2,1753)	1:29:B:LEU:HB2	1:38:B:ALA:HA	23	0.17	0.04	0.18
(2,958)	1:20:B:LEU:H	1:20:B:LEU:HB3	23	0.16	0.04	0.16
(2,2390)	1:20:B:LEU:H	1:20:B:LEU:HB3	23	0.16	0.04	0.16
(2,128)	1:29:B:LEU:H	1:29:B:LEU:HB3	23	0.15	0.02	0.15
(2,1560)	1:29:B:LEU:H	1:29:B:LEU:HB3	23	0.15	0.02	0.15
(2,914)	1:55:B:GLY:H	1:54:B:TRP:HB2	22	0.22	0.07	0.22
(2,2346)	1:55:B:GLY:H	1:54:B:TRP:HB2	22	0.22	0.07	0.22
(2,98)	1:30:B:SER:HB2	1:30:B:SER:HA	22	0.18	0.04	0.18
(2,1530)	1:30:B:SER:HB2	1:30:B:SER:HA	22	0.18	0.04	0.18
(2,868)	1:54:B:TRP:H	1:54:B:TRP:HB3	22	0.16	0.07	0.13
(2,2300)	1:54:B:TRP:H	1:54:B:TRP:HB3	22	0.16	0.07	0.13
(2,1361)	1:57:B:PHE:HA	1:57:B:PHE:HD1	21	0.44	0.1	0.47
(2,1361)	1:57:B:PHE:HA	1:57:B:PHE:HD2	21	0.44	0.1	0.47

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,2793)	1:57:B:PHE:HA	1:57:B:PHE:HD1	21	0.44	0.1	0.47
(2,2793)	1:57:B:PHE:HA	1:57:B:PHE:HD2	21	0.44	0.1	0.47
(2,1198)	1:91:B:ILE:H	1:90:B:GLU:HB2	21	0.39	0.1	0.43
(2,2630)	1:91:B:ILE:H	1:90:B:GLU:HB2	21	0.39	0.1	0.43
(2,395)	1:88:B:TYR:HB2	1:59:B:ASN:H	21	0.17	0.04	0.17
(2,1827)	1:88:B:TYR:HB2	1:59:B:ASN:H	21	0.17	0.04	0.17
(2,795)	1:19:B:LYS:HB3	1:19:B:LYS:H	21	0.16	0.03	0.16
(2,2227)	1:19:B:LYS:HB3	1:19:B:LYS:H	21	0.16	0.03	0.16
(2,1098)	1:56:B:ILE:H	1:56:B:ILE:HG12	21	0.15	0.04	0.14
(2,2530)	1:56:B:ILE:H	1:56:B:ILE:HG12	21	0.15	0.04	0.14
(2,150)	1:37:B:LYS:HG3	1:35:B:GLN:HB3	21	0.14	0.03	0.13
(2,1582)	1:37:B:LYS:HG3	1:35:B:GLN:HB3	21	0.14	0.03	0.13
(2,1342)	1:61:B:GLU:H	1:61:B:GLU:HB3	21	0.14	0.02	0.14
(2,2774)	1:61:B:GLU:H	1:61:B:GLU:HB3	21	0.14	0.02	0.14
(2,383)	1:84:B:ILE:HG12	1:84:B:ILE:HA	20	0.28	0.07	0.29
(2,1815)	1:84:B:ILE:HG12	1:84:B:ILE:HA	20	0.28	0.07	0.29
(2,305)	1:63:B:VAL:H	1:58:B:VAL:H	20	0.18	0.05	0.18
(2,1737)	1:63:B:VAL:H	1:58:B:VAL:H	20	0.18	0.05	0.18
(2,1432)	1:33:B:GLY:HA3	1:86:B:GLY:HA3	20	0.17	0.05	0.16
(2,2863)	1:33:B:GLY:HA3	1:86:B:GLY:HA3	20	0.17	0.05	0.16
(1,39)	1:66:B:PHE:H	1:54:B:TRP:O	20	0.15	0.03	0.15
(1,86)	1:66:B:PHE:H	1:54:B:TRP:O	20	0.15	0.03	0.15
(2,848)	1:66:B:PHE:H	1:66:B:PHE:HD1	19	0.3	0.04	0.29
(2,848)	1:66:B:PHE:H	1:66:B:PHE:HD2	19	0.3	0.04	0.29
(2,2280)	1:66:B:PHE:H	1:66:B:PHE:HD1	19	0.3	0.04	0.29
(2,2280)	1:66:B:PHE:H	1:66:B:PHE:HD2	19	0.3	0.04	0.29
(2,90)	1:78:B:ASP:H	1:77:B:ASN:HB2	19	0.25	0.12	0.18
(2,1522)	1:78:B:ASP:H	1:77:B:ASN:HB2	19	0.25	0.12	0.18
(2,469)	1:57:B:PHE:HZ	1:56:B:ILE:HA	19	0.18	0.05	0.17
(2,1901)	1:57:B:PHE:HZ	1:56:B:ILE:HA	19	0.18	0.05	0.17
(2,417)	1:41:B:SER:HB2	1:41:B:SER:HA	19	0.18	0.04	0.18
(2,1849)	1:41:B:SER:HB2	1:41:B:SER:HA	19	0.18	0.04	0.18
(2,557)	1:20:B:LEU:HB3	1:54:B:TRP:HZ2	19	0.17	0.04	0.16
(2,1989)	1:20:B:LEU:HB3	1:54:B:TRP:HZ2	19	0.17	0.04	0.16
(1,49)	1:72:B:VAL:O	1:76:B:SER:N	19	0.15	0.03	0.15
(1,96)	1:72:B:VAL:O	1:76:B:SER:N	19	0.15	0.03	0.15
(2,998)	1:35:B:GLN:HG3	1:35:B:GLN:HE22	19	0.14	0.03	0.13
(2,2430)	1:35:B:GLN:HG3	1:35:B:GLN:HE22	19	0.14	0.03	0.13
(2,25)	1:85:B:LYS:H	1:84:B:ILE:HG12	18	0.19	0.08	0.17
(2,1457)	1:85:B:LYS:H	1:84:B:ILE:HG12	18	0.19	0.08	0.17
(2,912)	1:80:B:ASN:H	1:77:B:ASN:HA	17	0.16	0.04	0.15
(2,2344)	1:80:B:ASN:H	1:77:B:ASN:HA	17	0.16	0.04	0.15

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,1384)	1:77:B:ASN:HB3	1:76:B:SER:H	16	0.27	0.02	0.26
(2,2816)	1:77:B:ASN:HB3	1:76:B:SER:H	16	0.27	0.02	0.26
(2,1363)	1:19:B:LYS:H	1:15:B:SER:H	16	0.14	0.03	0.13
(2,2795)	1:19:B:LYS:H	1:15:B:SER:H	16	0.14	0.03	0.13
(2,1329)	1:82:B:LEU:H	1:83:B:ASN:HA	16	0.14	0.02	0.14
(2,2761)	1:82:B:LEU:H	1:83:B:ASN:HA	16	0.14	0.02	0.14
(2,402)	1:44:B:GLY:H	1:43:B:ALA:HA	15	0.24	0.03	0.25
(2,1834)	1:44:B:GLY:H	1:43:B:ALA:HA	15	0.24	0.03	0.25
(2,400)	1:10:B:MET:HA	1:10:B:MET:HB2	15	0.21	0.07	0.18
(2,1832)	1:10:B:MET:HA	1:10:B:MET:HB2	15	0.21	0.07	0.18
(2,1388)	1:87:B:MET:HG2	1:87:B:MET:H	15	0.19	0.06	0.17
(2,2820)	1:87:B:MET:HG2	1:87:B:MET:H	15	0.19	0.06	0.17
(2,1360)	1:9:B:GLN:H	1:8:B:GLU:HA	15	0.14	0.04	0.12
(2,2792)	1:9:B:GLN:H	1:8:B:GLU:HA	15	0.14	0.04	0.12
(2,919)	1:64:B:TYR:H	1:62:B:LYS:HA	15	0.14	0.03	0.14
(2,2351)	1:64:B:TYR:H	1:62:B:LYS:HA	15	0.14	0.03	0.14
(2,1453)	1:26:B:LYS:HG2	1:26:B:LYS:H	14	0.18	0.07	0.14
(2,2884)	1:26:B:LYS:HG2	1:26:B:LYS:H	14	0.18	0.07	0.14
(2,1033)	1:16:B:VAL:H	1:14:B:ASN:HB3	14	0.16	0.04	0.15
(2,2465)	1:16:B:VAL:H	1:14:B:ASN:HB3	14	0.16	0.04	0.15
(2,661)	1:13:B:ILE:HA	1:13:B:ILE:HG13	13	0.29	0.04	0.28
(2,2093)	1:13:B:ILE:HA	1:13:B:ILE:HG13	13	0.29	0.04	0.28
(2,1401)	1:67:B:ASN:HB2	1:67:B:ASN:HD22	13	0.26	0.01	0.26
(2,2833)	1:67:B:ASN:HB2	1:67:B:ASN:HD22	13	0.26	0.01	0.26
(2,1278)	1:67:B:ASN:HB3	1:67:B:ASN:HD22	12	0.32	0.06	0.35
(2,2710)	1:67:B:ASN:HB3	1:67:B:ASN:HD22	12	0.32	0.06	0.35
(2,1289)	1:90:B:GLU:HG3	1:88:B:TYR:HE1	12	0.3	0.14	0.26
(2,1289)	1:90:B:GLU:HG3	1:88:B:TYR:HE2	12	0.3	0.14	0.26
(2,2721)	1:90:B:GLU:HG3	1:88:B:TYR:HE1	12	0.3	0.14	0.26
(2,2721)	1:90:B:GLU:HG3	1:88:B:TYR:HE2	12	0.3	0.14	0.26
(2,428)	1:13:B:ILE:HB	1:13:B:ILE:H	12	0.27	0.04	0.26
(2,1860)	1:13:B:ILE:HB	1:13:B:ILE:H	12	0.27	0.04	0.26
(2,295)	1:13:B:ILE:HA	1:13:B:ILE:HD11	12	0.2	0.01	0.2
(2,295)	1:13:B:ILE:HA	1:13:B:ILE:HD12	12	0.2	0.01	0.2
(2,295)	1:13:B:ILE:HA	1:13:B:ILE:HD13	12	0.2	0.01	0.2
(2,1727)	1:13:B:ILE:HA	1:13:B:ILE:HD11	12	0.2	0.01	0.2
(2,1727)	1:13:B:ILE:HA	1:13:B:ILE:HD12	12	0.2	0.01	0.2
(2,1727)	1:13:B:ILE:HA	1:13:B:ILE:HD13	12	0.2	0.01	0.2
(2,1431)	1:82:B:LEU:HG	1:84:B:ILE:HA	12	0.18	0.06	0.16
(2,2862)	1:82:B:LEU:HG	1:84:B:ILE:HA	12	0.18	0.06	0.16
(2,1165)	1:49:B:TYR:H	1:48:B:SER:HB2	12	0.18	0.1	0.13
(2,2597)	1:49:B:TYR:H	1:48:B:SER:HB2	12	0.18	0.1	0.13

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,1334)	1:27:B:LEU:H	1:27:B:LEU:HG	12	0.16	0.03	0.16
(2,2766)	1:27:B:LEU:H	1:27:B:LEU:HG	12	0.16	0.03	0.16
(2,219)	1:93:B:GLN:H	1:92:B:LYS:HB2	12	0.15	0.04	0.14
(2,1651)	1:93:B:GLN:H	1:92:B:LYS:HB2	12	0.15	0.04	0.14
(2,1336)	1:37:B:LYS:H	1:36:B:LEU:HB3	12	0.14	0.02	0.14
(2,2768)	1:37:B:LYS:H	1:36:B:LEU:HB3	12	0.14	0.02	0.14
(1,28)	1:37:B:LYS:O	1:30:B:SER:N	12	0.12	0.01	0.12
(1,75)	1:37:B:LYS:O	1:30:B:SER:N	12	0.12	0.01	0.12
(2,444)	1:48:B:SER:H	1:46:B:GLY:HA2	11	0.2	0.1	0.15
(2,1876)	1:48:B:SER:H	1:46:B:GLY:HA2	11	0.2	0.1	0.15
(2,1196)	1:84:B:ILE:H	1:82:B:LEU:HB2	11	0.17	0.06	0.14
(2,2628)	1:84:B:ILE:H	1:82:B:LEU:HB2	11	0.17	0.06	0.14
(2,80)	1:27:B:LEU:HB3	1:40:B:SER:HA	11	0.15	0.03	0.15
(2,1512)	1:27:B:LEU:HB3	1:40:B:SER:HA	11	0.15	0.03	0.15
(2,926)	1:79:B:ILE:H	1:78:B:ASP:H	11	0.14	0.03	0.14
(2,2358)	1:79:B:ILE:H	1:78:B:ASP:H	11	0.14	0.03	0.14
(2,533)	1:46:B:GLY:H	1:45:B:TYR:HD1	10	0.3	0.1	0.3
(2,533)	1:46:B:GLY:H	1:45:B:TYR:HD2	10	0.3	0.1	0.3
(2,1965)	1:46:B:GLY:H	1:45:B:TYR:HD1	10	0.3	0.1	0.3
(2,1965)	1:46:B:GLY:H	1:45:B:TYR:HD2	10	0.3	0.1	0.3
(2,1286)	1:59:B:ASN:HD22	1:59:B:ASN:HB3	10	0.24	0.04	0.25
(2,2718)	1:59:B:ASN:HD22	1:59:B:ASN:HB3	10	0.24	0.04	0.25
(2,1027)	1:86:B:GLY:H	1:85:B:LYS:HG3	10	0.22	0.12	0.17
(2,2459)	1:86:B:GLY:H	1:85:B:LYS:HG3	10	0.22	0.12	0.17
(2,1368)	1:48:B:SER:H	1:47:B:ILE:HG12	10	0.19	0.07	0.21
(2,2800)	1:48:B:SER:H	1:47:B:ILE:HG12	10	0.19	0.07	0.21
(2,588)	1:81:B:LYS:H	1:80:B:ASN:HB3	10	0.16	0.04	0.16
(2,2020)	1:81:B:LYS:H	1:80:B:ASN:HB3	10	0.16	0.04	0.16
(2,575)	1:27:B:LEU:H	1:39:B:THR:H	10	0.14	0.03	0.12
(2,2007)	1:27:B:LEU:H	1:39:B:THR:H	10	0.14	0.03	0.12
(2,763)	1:42:B:ASN:H	1:42:B:ASN:HA	10	0.13	0.01	0.13
(2,2195)	1:42:B:ASN:H	1:42:B:ASN:HA	10	0.13	0.01	0.13
(1,32)	1:35:B:GLN:H	1:32:B:ASN:O	10	0.13	0.04	0.12
(1,79)	1:35:B:GLN:H	1:32:B:ASN:O	10	0.13	0.04	0.12
(2,1345)	1:12:B:SER:H	1:11:B:ASN:HB3	10	0.12	0.02	0.12
(2,2777)	1:12:B:SER:H	1:11:B:ASN:HB3	10	0.12	0.02	0.12
(2,1282)	1:84:B:ILE:H	1:84:B:ILE:HB	9	0.39	0.07	0.41
(2,2714)	1:84:B:ILE:H	1:84:B:ILE:HB	9	0.39	0.07	0.41
(2,62)	1:27:B:LEU:H	1:26:B:LYS:HB3	9	0.24	0.03	0.24
(2,1494)	1:27:B:LEU:H	1:26:B:LYS:HB3	9	0.24	0.03	0.24
(2,410)	1:89:B:ILE:H	1:88:B:TYR:HD1	9	0.22	0.07	0.25
(2,410)	1:89:B:ILE:H	1:88:B:TYR:HD2	9	0.22	0.07	0.25

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,1842)	1:89:B:ILE:H	1:88:B:TYR:HD1	9	0.22	0.07	0.25
(2,1842)	1:89:B:ILE:H	1:88:B:TYR:HD2	9	0.22	0.07	0.25
(2,1409)	1:45:B:TYR:HB2	1:24:B:LYS:HB2	9	0.21	0.08	0.2
(2,2841)	1:45:B:TYR:HB2	1:24:B:LYS:HB2	9	0.21	0.08	0.2
(2,688)	1:77:B:ASN:HB2	1:77:B:ASN:HD22	9	0.21	0.01	0.21
(2,2120)	1:77:B:ASN:HB2	1:77:B:ASN:HD22	9	0.21	0.01	0.21
(2,464)	1:70:B:SER:HB3	1:69:B:LYS:HB3	9	0.16	0.04	0.15
(2,1896)	1:70:B:SER:HB3	1:69:B:LYS:HB3	9	0.16	0.04	0.15
(2,1209)	1:85:B:LYS:H	1:84:B:ILE:HA	9	0.15	0.04	0.13
(2,2641)	1:85:B:LYS:H	1:84:B:ILE:HA	9	0.15	0.04	0.13
(2,203)	1:56:B:ILE:HA	1:54:B:TRP:HE3	9	0.15	0.05	0.13
(2,1635)	1:56:B:ILE:HA	1:54:B:TRP:HE3	9	0.15	0.05	0.13
(2,1343)	1:49:B:TYR:H	1:48:B:SER:HB3	9	0.13	0.03	0.12
(2,2775)	1:49:B:TYR:H	1:48:B:SER:HB3	9	0.13	0.03	0.12
(2,655)	1:67:B:ASN:HB3	1:66:B:PHE:HA	9	0.12	0.02	0.13
(2,2087)	1:67:B:ASN:HB3	1:66:B:PHE:HA	9	0.12	0.02	0.13
(2,532)	1:93:B:GLN:H	1:93:B:GLN:HB3	8	0.25	0.03	0.26
(2,1964)	1:93:B:GLN:H	1:93:B:GLN:HB3	8	0.25	0.03	0.26
(2,1291)	1:84:B:ILE:H	1:84:B:ILE:HG12	8	0.23	0.09	0.21
(2,2723)	1:84:B:ILE:H	1:84:B:ILE:HG12	8	0.23	0.09	0.21
(2,1449)	1:43:B:ALA:H	1:41:B:SER:HA	8	0.2	0.04	0.19
(2,2880)	1:43:B:ALA:H	1:41:B:SER:HA	8	0.2	0.04	0.19
(2,644)	1:88:B:TYR:HD1	1:89:B:ILE:HA	8	0.19	0.05	0.2
(2,644)	1:88:B:TYR:HD2	1:89:B:ILE:HA	8	0.19	0.05	0.2
(2,2076)	1:88:B:TYR:HD1	1:89:B:ILE:HA	8	0.19	0.05	0.2
(2,2076)	1:88:B:TYR:HD2	1:89:B:ILE:HA	8	0.19	0.05	0.2
(2,1270)	1:25:B:GLY:HA3	1:45:B:TYR:HB2	8	0.18	0.05	0.17
(2,2702)	1:25:B:GLY:HA3	1:45:B:TYR:HB2	8	0.18	0.05	0.17
(2,49)	1:85:B:LYS:HB3	1:85:B:LYS:H	8	0.16	0.04	0.16
(2,1481)	1:85:B:LYS:HB3	1:85:B:LYS:H	8	0.16	0.04	0.16
(2,1405)	1:10:B:MET:H	1:10:B:MET:HB3	8	0.16	0.03	0.16
(2,2837)	1:10:B:MET:H	1:10:B:MET:HB3	8	0.16	0.03	0.16
(2,1148)	1:75:B:ILE:H	1:74:B:ASN:HB3	8	0.16	0.04	0.15
(2,2580)	1:75:B:ILE:H	1:74:B:ASN:HB3	8	0.16	0.04	0.15
(2,1176)	1:22:B:LYS:H	1:21:B:ASN:H	8	0.16	0.06	0.14
(2,2608)	1:22:B:LYS:H	1:21:B:ASN:H	8	0.16	0.06	0.14
(1,13)	1:15:B:SER:H	1:11:B:ASN:O	8	0.15	0.06	0.12
(1,60)	1:15:B:SER:H	1:11:B:ASN:O	8	0.15	0.06	0.12
(2,115)	1:41:B:SER:H	1:26:B:LYS:HG3	8	0.14	0.03	0.13
(2,1547)	1:41:B:SER:H	1:26:B:LYS:HG3	8	0.14	0.03	0.13
(2,733)	1:63:B:VAL:H	1:62:B:LYS:HG3	8	0.14	0.03	0.12
(2,2165)	1:63:B:VAL:H	1:62:B:LYS:HG3	8	0.14	0.03	0.12

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,982)	1:32:B:ASN:H	1:31:B:MET:HB2	8	0.12	0.01	0.12
(2,2414)	1:32:B:ASN:H	1:31:B:MET:HB2	8	0.12	0.01	0.12
(2,720)	1:40:B:SER:HB3	1:27:B:LEU:HB3	7	0.25	0.05	0.23
(2,2152)	1:40:B:SER:HB3	1:27:B:LEU:HB3	7	0.25	0.05	0.23
(2,1416)	1:49:B:TYR:HA	1:52:B:LYS:HE3	7	0.24	0.11	0.21
(2,2848)	1:49:B:TYR:HA	1:52:B:LYS:HE3	7	0.24	0.11	0.21
(2,441)	1:41:B:SER:H	1:26:B:LYS:HB3	7	0.2	0.05	0.21
(2,1873)	1:41:B:SER:H	1:26:B:LYS:HB3	7	0.2	0.05	0.21
(2,1419)	1:46:B:GLY:HA3	1:71:B:THR:HA	7	0.18	0.1	0.14
(2,2851)	1:46:B:GLY:HA3	1:71:B:THR:HA	7	0.18	0.1	0.14
(2,874)	1:68:B:GLU:HG3	1:68:B:GLU:H	7	0.17	0.06	0.14
(2,2306)	1:68:B:GLU:HG3	1:68:B:GLU:H	7	0.17	0.06	0.14
(2,1203)	1:22:B:LYS:H	1:21:B:ASN:HB2	7	0.15	0.03	0.13
(2,2635)	1:22:B:LYS:H	1:21:B:ASN:HB2	7	0.15	0.03	0.13
(2,449)	1:90:B:GLU:HB3	1:90:B:GLU:HG3	7	0.14	0.05	0.13
(2,1881)	1:90:B:GLU:HB3	1:90:B:GLU:HG3	7	0.14	0.05	0.13
(2,797)	1:94:B:ILE:H	1:94:B:ILE:HG13	7	0.14	0.04	0.12
(2,2229)	1:94:B:ILE:H	1:94:B:ILE:HG13	7	0.14	0.04	0.12
(2,719)	1:62:B:LYS:HD3	1:62:B:LYS:HG2	7	0.14	0.03	0.14
(2,2151)	1:62:B:LYS:HD3	1:62:B:LYS:HG2	7	0.14	0.03	0.14
(2,149)	1:62:B:LYS:HD2	1:62:B:LYS:HG2	7	0.14	0.01	0.14
(2,1421)	1:46:B:GLY:HA3	1:71:B:THR:HB	7	0.14	0.02	0.14
(2,1581)	1:62:B:LYS:HD2	1:62:B:LYS:HG2	7	0.14	0.01	0.14
(2,2853)	1:46:B:GLY:HA3	1:71:B:THR:HB	7	0.14	0.02	0.14
(2,804)	1:31:B:MET:H	1:30:B:SER:HB3	7	0.12	0.02	0.13
(2,2236)	1:31:B:MET:H	1:30:B:SER:HB3	7	0.12	0.02	0.13
(2,832)	1:35:B:GLN:HG2	1:35:B:GLN:HE22	6	0.28	0.12	0.34
(2,2264)	1:35:B:GLN:HG2	1:35:B:GLN:HE22	6	0.28	0.12	0.34
(2,1365)	1:25:B:GLY:H	1:24:B:LYS:H	6	0.24	0.07	0.26
(2,2797)	1:25:B:GLY:H	1:24:B:LYS:H	6	0.24	0.07	0.26
(2,1295)	1:49:B:TYR:H	1:49:B:TYR:HD1	6	0.22	0.02	0.22
(2,1295)	1:49:B:TYR:H	1:49:B:TYR:HD2	6	0.22	0.02	0.22
(2,2727)	1:49:B:TYR:H	1:49:B:TYR:HD1	6	0.22	0.02	0.22
(2,2727)	1:49:B:TYR:H	1:49:B:TYR:HD2	6	0.22	0.02	0.22
(2,1355)	1:48:B:SER:H	1:47:B:ILE:HG13	6	0.2	0.06	0.18
(2,2787)	1:48:B:SER:H	1:47:B:ILE:HG13	6	0.2	0.06	0.18
(2,851)	1:21:B:ASN:HB2	1:21:B:ASN:H	6	0.19	0.1	0.14
(2,2283)	1:21:B:ASN:HB2	1:21:B:ASN:H	6	0.19	0.1	0.14
(2,1206)	1:91:B:ILE:HG21	1:91:B:ILE:HD11	6	0.18	0.04	0.18
(2,1206)	1:91:B:ILE:HG21	1:91:B:ILE:HD12	6	0.18	0.04	0.18
(2,1206)	1:91:B:ILE:HG21	1:91:B:ILE:HD13	6	0.18	0.04	0.18
(2,1206)	1:91:B:ILE:HG22	1:91:B:ILE:HD11	6	0.18	0.04	0.18

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,1206)	1:91:B:ILE:HG22	1:91:B:ILE:HD12	6	0.18	0.04	0.18
(2,1206)	1:91:B:ILE:HG22	1:91:B:ILE:HD13	6	0.18	0.04	0.18
(2,1206)	1:91:B:ILE:HG23	1:91:B:ILE:HD11	6	0.18	0.04	0.18
(2,1206)	1:91:B:ILE:HG23	1:91:B:ILE:HD12	6	0.18	0.04	0.18
(2,1206)	1:91:B:ILE:HG23	1:91:B:ILE:HD13	6	0.18	0.04	0.18
(2,2638)	1:91:B:ILE:HG21	1:91:B:ILE:HD11	6	0.18	0.04	0.18
(2,2638)	1:91:B:ILE:HG21	1:91:B:ILE:HD12	6	0.18	0.04	0.18
(2,2638)	1:91:B:ILE:HG21	1:91:B:ILE:HD13	6	0.18	0.04	0.18
(2,2638)	1:91:B:ILE:HG22	1:91:B:ILE:HD11	6	0.18	0.04	0.18
(2,2638)	1:91:B:ILE:HG22	1:91:B:ILE:HD12	6	0.18	0.04	0.18
(2,2638)	1:91:B:ILE:HG22	1:91:B:ILE:HD13	6	0.18	0.04	0.18
(2,2638)	1:91:B:ILE:HG23	1:91:B:ILE:HD11	6	0.18	0.04	0.18
(2,2638)	1:91:B:ILE:HG23	1:91:B:ILE:HD12	6	0.18	0.04	0.18
(2,2638)	1:91:B:ILE:HG23	1:91:B:ILE:HD13	6	0.18	0.04	0.18
(2,550)	1:35:B:GLN:H	1:31:B:MET:HA	6	0.18	0.03	0.16
(2,1982)	1:35:B:GLN:H	1:31:B:MET:HA	6	0.18	0.03	0.16
(2,725)	1:26:B:LYS:HE3	1:42:B:ASN:H	6	0.16	0.03	0.16
(2,2157)	1:26:B:LYS:HE3	1:42:B:ASN:H	6	0.16	0.03	0.16
(2,1296)	1:83:B:ASN:H	1:83:B:ASN:HB3	6	0.16	0.05	0.14
(2,2728)	1:83:B:ASN:H	1:83:B:ASN:HB3	6	0.16	0.05	0.14
(2,765)	1:89:B:ILE:H	1:87:B:MET:HG3	6	0.16	0.02	0.15
(2,2197)	1:89:B:ILE:H	1:87:B:MET:HG3	6	0.16	0.02	0.15
(2,64)	1:26:B:LYS:H	1:26:B:LYS:HB2	6	0.16	0.02	0.15
(2,1452)	1:71:B:THR:H	1:71:B:THR:HB	6	0.16	0.05	0.15
(2,1496)	1:26:B:LYS:H	1:26:B:LYS:HB2	6	0.16	0.02	0.15
(2,2883)	1:71:B:THR:H	1:71:B:THR:HB	6	0.16	0.05	0.15
(2,665)	1:42:B:ASN:H	1:41:B:SER:HB3	6	0.15	0.02	0.15
(2,2097)	1:42:B:ASN:H	1:41:B:SER:HB3	6	0.15	0.02	0.15
(2,1265)	1:36:B:LEU:H	1:35:B:GLN:HB2	6	0.14	0.04	0.12
(2,2697)	1:36:B:LEU:H	1:35:B:GLN:HB2	6	0.14	0.04	0.12
(2,258)	1:37:B:LYS:HG2	1:37:B:LYS:HD3	6	0.13	0.01	0.13
(2,1690)	1:37:B:LYS:HG2	1:37:B:LYS:HD3	6	0.13	0.01	0.13
(1,31)	1:37:B:LYS:H	1:30:B:SER:O	6	0.12	0.02	0.12
(1,78)	1:37:B:LYS:H	1:30:B:SER:O	6	0.12	0.02	0.12
(2,1287)	1:74:B:ASN:HA	1:77:B:ASN:HD22	6	0.11	0.01	0.11
(2,2719)	1:74:B:ASN:HA	1:77:B:ASN:HD22	6	0.11	0.01	0.11
(2,1381)	1:74:B:ASN:H	1:74:B:ASN:HB3	5	0.27	0.0	0.27
(2,2813)	1:74:B:ASN:H	1:74:B:ASN:HB3	5	0.27	0.0	0.27
(2,826)	1:73:B:GLY:H	1:74:B:ASN:HB3	5	0.19	0.03	0.2
(2,2258)	1:73:B:GLY:H	1:74:B:ASN:HB3	5	0.19	0.03	0.2
(2,1433)	1:33:B:GLY:HA2	1:86:B:GLY:HA3	5	0.19	0.03	0.19
(2,2864)	1:33:B:GLY:HA2	1:86:B:GLY:HA3	5	0.19	0.03	0.19

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,893)	1:60:B:GLY:H	1:59:B:ASN:HB3	5	0.18	0.04	0.2
(2,2325)	1:60:B:GLY:H	1:59:B:ASN:HB3	5	0.18	0.04	0.2
(2,1285)	1:31:B:MET:H	1:31:B:MET:HB3	5	0.18	0.06	0.19
(2,2717)	1:31:B:MET:H	1:31:B:MET:HB3	5	0.18	0.06	0.19
(2,704)	1:35:B:GLN:HG2	1:35:B:GLN:H	5	0.16	0.07	0.11
(2,2136)	1:35:B:GLN:HG2	1:35:B:GLN:H	5	0.16	0.07	0.11
(2,36)	1:25:B:GLY:HA2	1:45:B:TYR:HB3	5	0.16	0.03	0.16
(2,1468)	1:25:B:GLY:HA2	1:45:B:TYR:HB3	5	0.16	0.03	0.16
(2,448)	1:80:B:ASN:HD22	1:79:B:ILE:HB	5	0.15	0.03	0.16
(2,1880)	1:80:B:ASN:HD22	1:79:B:ILE:HB	5	0.15	0.03	0.16
(2,1427)	1:75:B:ILE:HG12	1:70:B:SER:HB2	5	0.14	0.02	0.13
(2,2888)	1:75:B:ILE:HG12	1:70:B:SER:HB2	5	0.14	0.02	0.13
(2,1380)	1:82:B:LEU:H	1:82:B:LEU:HB3	5	0.14	0.02	0.13
(2,2812)	1:82:B:LEU:H	1:82:B:LEU:HB3	5	0.14	0.02	0.13
(2,1222)	1:38:B:ALA:H	1:29:B:LEU:HB2	5	0.13	0.02	0.14
(2,2654)	1:38:B:ALA:H	1:29:B:LEU:HB2	5	0.13	0.02	0.14
(1,21)	1:26:B:LYS:H	1:41:B:SER:O	5	0.13	0.02	0.12
(1,68)	1:26:B:LYS:H	1:41:B:SER:O	5	0.13	0.02	0.12
(2,1232)	1:40:B:SER:H	1:39:B:THR:HB	5	0.13	0.02	0.12
(2,2664)	1:40:B:SER:H	1:39:B:THR:HB	5	0.13	0.02	0.12
(2,564)	1:4:B:LYS:H	1:4:B:LYS:HB2	5	0.13	0.01	0.13
(2,1996)	1:4:B:LYS:H	1:4:B:LYS:HB2	5	0.13	0.01	0.13
(2,817)	1:32:B:ASN:H	1:31:B:MET:HB3	5	0.11	0.01	0.11
(2,2249)	1:32:B:ASN:H	1:31:B:MET:HB3	5	0.11	0.01	0.11
(2,1413)	1:49:B:TYR:HE1	1:24:B:LYS:HD3	4	0.68	0.22	0.67
(2,1413)	1:49:B:TYR:HE2	1:24:B:LYS:HD3	4	0.68	0.22	0.67
(2,2845)	1:49:B:TYR:HE1	1:24:B:LYS:HD3	4	0.68	0.22	0.67
(2,2845)	1:49:B:TYR:HE2	1:24:B:LYS:HD3	4	0.68	0.22	0.67
(2,535)	1:92:B:LYS:HG3	1:92:B:LYS:HE3	4	0.31	0.06	0.34
(2,1967)	1:92:B:LYS:HG3	1:92:B:LYS:HE3	4	0.31	0.06	0.34
(2,825)	1:46:B:GLY:H	1:47:B:ILE:HD11	4	0.22	0.12	0.18
(2,825)	1:46:B:GLY:H	1:47:B:ILE:HD12	4	0.22	0.12	0.18
(2,825)	1:46:B:GLY:H	1:47:B:ILE:HD13	4	0.22	0.12	0.18
(2,2257)	1:46:B:GLY:H	1:47:B:ILE:HD11	4	0.22	0.12	0.18
(2,2257)	1:46:B:GLY:H	1:47:B:ILE:HD12	4	0.22	0.12	0.18
(2,2257)	1:46:B:GLY:H	1:47:B:ILE:HD13	4	0.22	0.12	0.18
(2,1127)	1:83:B:ASN:HB2	1:83:B:ASN:H	4	0.19	0.03	0.2
(2,2559)	1:83:B:ASN:HB2	1:83:B:ASN:H	4	0.19	0.03	0.2
(2,1338)	1:41:B:SER:HB3	1:26:B:LYS:H	4	0.18	0.04	0.19
(2,2770)	1:41:B:SER:HB3	1:26:B:LYS:H	4	0.18	0.04	0.19
(2,434)	1:13:B:ILE:H	1:13:B:ILE:HD11	4	0.18	0.08	0.15
(2,434)	1:13:B:ILE:H	1:13:B:ILE:HD12	4	0.18	0.08	0.15

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,434)	1:13:B:ILE:H	1:13:B:ILE:HD13	4	0.18	0.08	0.15
(2,1866)	1:13:B:ILE:H	1:13:B:ILE:HD11	4	0.18	0.08	0.15
(2,1866)	1:13:B:ILE:H	1:13:B:ILE:HD12	4	0.18	0.08	0.15
(2,1866)	1:13:B:ILE:H	1:13:B:ILE:HD13	4	0.18	0.08	0.15
(2,945)	1:48:B:SER:HB3	1:48:B:SER:H	4	0.18	0.05	0.16
(2,2377)	1:48:B:SER:HB3	1:48:B:SER:H	4	0.18	0.05	0.16
(2,174)	1:14:B:ASN:H	1:13:B:ILE:HB	4	0.16	0.06	0.14
(2,1606)	1:14:B:ASN:H	1:13:B:ILE:HB	4	0.16	0.06	0.14
(2,100)	1:82:B:LEU:H	1:82:B:LEU:HG	4	0.16	0.04	0.15
(2,1532)	1:82:B:LEU:H	1:82:B:LEU:HG	4	0.16	0.04	0.15
(2,356)	1:41:B:SER:H	1:40:B:SER:HB3	4	0.15	0.04	0.16
(2,1788)	1:41:B:SER:H	1:40:B:SER:HB3	4	0.15	0.04	0.16
(2,906)	1:64:B:TYR:H	1:62:B:LYS:HB2	4	0.15	0.0	0.15
(2,2338)	1:64:B:TYR:H	1:62:B:LYS:HB2	4	0.15	0.0	0.15
(2,531)	1:93:B:GLN:HE22	1:92:B:LYS:HB3	4	0.15	0.03	0.15
(2,1963)	1:93:B:GLN:HE22	1:92:B:LYS:HB3	4	0.15	0.03	0.15
(2,307)	1:56:B:ILE:H	1:55:B:GLY:HA3	4	0.15	0.04	0.14
(2,1739)	1:56:B:ILE:H	1:55:B:GLY:HA3	4	0.15	0.04	0.14
(2,1428)	1:87:B:MET:H	1:10:B:MET:HG3	4	0.14	0.02	0.14
(2,2859)	1:87:B:MET:H	1:10:B:MET:HG3	4	0.14	0.02	0.14
(2,1300)	1:43:B:ALA:H	1:26:B:LYS:HE3	4	0.14	0.03	0.14
(2,2732)	1:43:B:ALA:H	1:26:B:LYS:HE3	4	0.14	0.03	0.14
(2,215)	1:46:B:GLY:HA2	1:47:B:ILE:HG12	4	0.14	0.03	0.14
(2,1647)	1:46:B:GLY:HA2	1:47:B:ILE:HG12	4	0.14	0.03	0.14
(2,1277)	1:84:B:ILE:H	1:84:B:ILE:HD11	4	0.14	0.02	0.13
(2,1277)	1:84:B:ILE:H	1:84:B:ILE:HD12	4	0.14	0.02	0.13
(2,1277)	1:84:B:ILE:H	1:84:B:ILE:HD13	4	0.14	0.02	0.13
(2,1423)	1:66:B:PHE:HA	1:70:B:SER:HB2	4	0.14	0.02	0.13
(2,2709)	1:84:B:ILE:H	1:84:B:ILE:HD11	4	0.14	0.02	0.13
(2,2709)	1:84:B:ILE:H	1:84:B:ILE:HD12	4	0.14	0.02	0.13
(2,2709)	1:84:B:ILE:H	1:84:B:ILE:HD13	4	0.14	0.02	0.13
(2,2855)	1:66:B:PHE:HA	1:70:B:SER:HB2	4	0.14	0.02	0.13
(2,1034)	1:19:B:LYS:HG3	1:18:B:ASP:H	4	0.13	0.01	0.13
(2,2466)	1:19:B:LYS:HG3	1:18:B:ASP:H	4	0.13	0.01	0.13
(2,1183)	1:47:B:ILE:H	1:47:B:ILE:HG13	4	0.13	0.02	0.12
(2,2615)	1:47:B:ILE:H	1:47:B:ILE:HG13	4	0.13	0.02	0.12
(2,1430)	1:85:B:LYS:HA	1:34:B:ASN:H	4	0.13	0.02	0.13
(2,2861)	1:85:B:LYS:HA	1:34:B:ASN:H	4	0.13	0.02	0.13
(2,972)	1:79:B:ILE:HD11	1:64:B:TYR:HD1	4	0.12	0.03	0.11
(2,972)	1:79:B:ILE:HD11	1:64:B:TYR:HD2	4	0.12	0.03	0.11
(2,972)	1:79:B:ILE:HD12	1:64:B:TYR:HD1	4	0.12	0.03	0.11
(2,972)	1:79:B:ILE:HD12	1:64:B:TYR:HD2	4	0.12	0.03	0.11

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,972)	1:79:B:ILE:HD13	1:64:B:TYR:HD1	4	0.12	0.03	0.11
(2,972)	1:79:B:ILE:HD13	1:64:B:TYR:HD2	4	0.12	0.03	0.11
(2,2404)	1:79:B:ILE:HD11	1:64:B:TYR:HD1	4	0.12	0.03	0.11
(2,2404)	1:79:B:ILE:HD11	1:64:B:TYR:HD2	4	0.12	0.03	0.11
(2,2404)	1:79:B:ILE:HD12	1:64:B:TYR:HD1	4	0.12	0.03	0.11
(2,2404)	1:79:B:ILE:HD12	1:64:B:TYR:HD2	4	0.12	0.03	0.11
(2,2404)	1:79:B:ILE:HD13	1:64:B:TYR:HD1	4	0.12	0.03	0.11
(2,2404)	1:79:B:ILE:HD13	1:64:B:TYR:HD2	4	0.12	0.03	0.11
(2,1110)	1:69:B:LYS:H	1:68:B:GLU:H	4	0.12	0.02	0.12
(2,1122)	1:79:B:ILE:HG12	1:79:B:ILE:H	4	0.12	0.01	0.12
(2,2542)	1:69:B:LYS:H	1:68:B:GLU:H	4	0.12	0.02	0.12
(2,2554)	1:79:B:ILE:HG12	1:79:B:ILE:H	4	0.12	0.01	0.12
(2,1362)	1:18:B:ASP:H	1:17:B:ASN:HD22	4	0.12	0.01	0.11
(2,2794)	1:18:B:ASP:H	1:17:B:ASN:HD22	4	0.12	0.01	0.11
(2,774)	1:92:B:LYS:HG2	1:92:B:LYS:H	4	0.11	0.02	0.11
(2,2206)	1:92:B:LYS:HG2	1:92:B:LYS:H	4	0.11	0.02	0.11
(2,682)	1:94:B:ILE:H	1:94:B:ILE:HB	4	0.11	0.0	0.11
(2,2114)	1:94:B:ILE:H	1:94:B:ILE:HB	4	0.11	0.0	0.11
(2,849)	1:24:B:LYS:H	1:23:B:GLY:H	3	0.23	0.08	0.23
(2,2281)	1:24:B:LYS:H	1:23:B:GLY:H	3	0.23	0.08	0.23
(2,312)	1:86:B:GLY:H	1:85:B:LYS:HB3	3	0.2	0.07	0.22
(2,1744)	1:86:B:GLY:H	1:85:B:LYS:HB3	3	0.2	0.07	0.22
(2,1366)	1:4:B:LYS:H	1:4:B:LYS:HB3	3	0.19	0.02	0.2
(2,2798)	1:4:B:LYS:H	1:4:B:LYS:HB3	3	0.19	0.02	0.2
(2,829)	1:50:B:GLU:H	1:49:B:TYR:HB3	3	0.19	0.06	0.18
(2,939)	1:27:B:LEU:HD11	1:28:B:SER:H	3	0.19	0.02	0.19
(2,939)	1:27:B:LEU:HD12	1:28:B:SER:H	3	0.19	0.02	0.19
(2,939)	1:27:B:LEU:HD13	1:28:B:SER:H	3	0.19	0.02	0.19
(2,997)	1:47:B:ILE:H	1:46:B:GLY:H	3	0.19	0.05	0.15
(2,2261)	1:50:B:GLU:H	1:49:B:TYR:HB3	3	0.19	0.06	0.18
(2,2371)	1:27:B:LEU:HD11	1:28:B:SER:H	3	0.19	0.02	0.19
(2,2371)	1:27:B:LEU:HD12	1:28:B:SER:H	3	0.19	0.02	0.19
(2,2371)	1:27:B:LEU:HD13	1:28:B:SER:H	3	0.19	0.02	0.19
(2,2429)	1:47:B:ILE:H	1:46:B:GLY:H	3	0.19	0.05	0.15
(2,653)	1:62:B:LYS:HB3	1:62:B:LYS:H	3	0.17	0.04	0.17
(2,2085)	1:62:B:LYS:HB3	1:62:B:LYS:H	3	0.17	0.04	0.17
(2,1024)	1:85:B:LYS:HG3	1:85:B:LYS:H	3	0.17	0.05	0.17
(2,2456)	1:85:B:LYS:HG3	1:85:B:LYS:H	3	0.17	0.05	0.17
(2,485)	1:46:B:GLY:H	1:25:B:GLY:HA3	3	0.17	0.01	0.17
(2,1917)	1:46:B:GLY:H	1:25:B:GLY:HA3	3	0.17	0.01	0.17
(2,909)	1:18:B:ASP:H	1:15:B:SER:HA	3	0.16	0.06	0.12
(2,2341)	1:18:B:ASP:H	1:15:B:SER:HA	3	0.16	0.06	0.12

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,1374)	1:57:B:PHE:H	1:56:B:ILE:HG13	3	0.15	0.01	0.15
(2,2806)	1:57:B:PHE:H	1:56:B:ILE:HG13	3	0.15	0.01	0.15
(2,1394)	1:9:B:GLN:H	1:9:B:GLN:HB3	3	0.15	0.04	0.12
(2,2826)	1:9:B:GLN:H	1:9:B:GLN:HB3	3	0.15	0.04	0.12
(2,1335)	1:56:B:ILE:H	1:56:B:ILE:HD11	3	0.14	0.01	0.15
(2,1335)	1:56:B:ILE:H	1:56:B:ILE:HD12	3	0.14	0.01	0.15
(2,1335)	1:56:B:ILE:H	1:56:B:ILE:HD13	3	0.14	0.01	0.15
(2,2767)	1:56:B:ILE:H	1:56:B:ILE:HD11	3	0.14	0.01	0.15
(2,2767)	1:56:B:ILE:H	1:56:B:ILE:HD12	3	0.14	0.01	0.15
(2,2767)	1:56:B:ILE:H	1:56:B:ILE:HD13	3	0.14	0.01	0.15
(2,1266)	1:20:B:LEU:H	1:20:B:LEU:HG	3	0.13	0.02	0.13
(2,2698)	1:20:B:LEU:H	1:20:B:LEU:HG	3	0.13	0.02	0.13
(1,35)	1:32:B:ASN:O	1:35:B:GLN:N	3	0.13	0.03	0.11
(1,82)	1:32:B:ASN:O	1:35:B:GLN:N	3	0.13	0.03	0.11
(2,451)	1:73:B:GLY:H	1:74:B:ASN:HD22	3	0.13	0.01	0.13
(2,857)	1:89:B:ILE:H	1:89:B:ILE:HD11	3	0.13	0.03	0.12
(2,857)	1:89:B:ILE:H	1:89:B:ILE:HD12	3	0.13	0.03	0.12
(2,857)	1:89:B:ILE:H	1:89:B:ILE:HD13	3	0.13	0.03	0.12
(2,1039)	1:84:B:ILE:H	1:84:B:ILE:HG13	3	0.13	0.01	0.13
(2,1883)	1:73:B:GLY:H	1:74:B:ASN:HD22	3	0.13	0.01	0.13
(2,2289)	1:89:B:ILE:H	1:89:B:ILE:HD11	3	0.13	0.03	0.12
(2,2289)	1:89:B:ILE:H	1:89:B:ILE:HD12	3	0.13	0.03	0.12
(2,2289)	1:89:B:ILE:H	1:89:B:ILE:HD13	3	0.13	0.03	0.12
(2,2471)	1:84:B:ILE:H	1:84:B:ILE:HG13	3	0.13	0.01	0.13
(2,744)	1:15:B:SER:H	1:15:B:SER:HA	3	0.13	0.02	0.12
(2,2176)	1:15:B:SER:H	1:15:B:SER:HA	3	0.13	0.02	0.12
(2,571)	1:11:B:ASN:H	1:13:B:ILE:HG13	3	0.12	0.01	0.13
(2,2003)	1:11:B:ASN:H	1:13:B:ILE:HG13	3	0.12	0.01	0.13
(2,384)	1:45:B:TYR:HB2	1:24:B:LYS:HB3	3	0.12	0.02	0.12
(2,1816)	1:45:B:TYR:HB2	1:24:B:LYS:HB3	3	0.12	0.02	0.12
(2,447)	1:67:B:ASN:HB2	1:67:B:ASN:H	3	0.12	0.01	0.12
(2,1437)	1:37:B:LYS:HG2	1:32:B:ASN:H	3	0.12	0.01	0.11
(2,1879)	1:67:B:ASN:HB2	1:67:B:ASN:H	3	0.12	0.01	0.12
(2,2868)	1:37:B:LYS:HG2	1:32:B:ASN:H	3	0.12	0.01	0.11
(2,1438)	1:32:B:ASN:HB3	1:37:B:LYS:HD3	3	0.11	0.02	0.1
(2,2869)	1:32:B:ASN:HB3	1:37:B:LYS:HD3	3	0.11	0.02	0.1
(2,875)	1:37:B:LYS:H	1:36:B:LEU:HD11	3	0.11	0.0	0.11
(2,875)	1:37:B:LYS:H	1:36:B:LEU:HD12	3	0.11	0.0	0.11
(2,875)	1:37:B:LYS:H	1:36:B:LEU:HD13	3	0.11	0.0	0.11
(2,1332)	1:75:B:ILE:H	1:71:B:THR:H	3	0.11	0.01	0.11
(2,2307)	1:37:B:LYS:H	1:36:B:LEU:HD11	3	0.11	0.0	0.11
(2,2307)	1:37:B:LYS:H	1:36:B:LEU:HD12	3	0.11	0.0	0.11

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,2307)	1:37:B:LYS:H	1:36:B:LEU:HD13	3	0.11	0.0	0.11
(2,2764)	1:75:B:ILE:H	1:71:B:THR:H	3	0.11	0.01	0.11
(2,189)	1:79:B:ILE:HA	1:82:B:LEU:HB3	3	0.11	0.01	0.11
(2,1621)	1:79:B:ILE:HA	1:82:B:LEU:HB3	3	0.11	0.01	0.11
(2,543)	1:52:B:LYS:HG2	1:52:B:LYS:HB3	3	0.11	0.0	0.11
(2,1975)	1:52:B:LYS:HG2	1:52:B:LYS:HB3	3	0.11	0.0	0.11
(2,69)	1:47:B:ILE:HG13	1:47:B:ILE:HA	2	0.35	0.02	0.35
(2,1501)	1:47:B:ILE:HG13	1:47:B:ILE:HA	2	0.35	0.02	0.35
(2,134)	1:85:B:LYS:HA	1:85:B:LYS:HG2	2	0.34	0.01	0.34
(2,1566)	1:85:B:LYS:HA	1:85:B:LYS:HG2	2	0.34	0.01	0.34
(2,514)	1:90:B:GLU:HB3	1:91:B:ILE:HA	2	0.29	0.0	0.29
(2,1946)	1:90:B:GLU:HB3	1:91:B:ILE:HA	2	0.29	0.0	0.29
(2,781)	1:34:B:ASN:H	1:33:B:GLY:HA3	2	0.28	0.18	0.28
(2,2213)	1:34:B:ASN:H	1:33:B:GLY:HA3	2	0.28	0.18	0.28
(2,355)	1:50:B:GLU:H	1:50:B:GLU:HB2	2	0.26	0.11	0.26
(2,1787)	1:50:B:GLU:H	1:50:B:GLU:HB2	2	0.26	0.11	0.26
(2,609)	1:46:B:GLY:H	1:45:B:TYR:HB2	2	0.24	0.04	0.24
(2,2041)	1:46:B:GLY:H	1:45:B:TYR:HB2	2	0.24	0.04	0.24
(2,715)	1:7:B:GLU:HA	1:7:B:GLU:HG3	2	0.24	0.01	0.24
(2,2147)	1:7:B:GLU:HA	1:7:B:GLU:HG3	2	0.24	0.01	0.24
(2,722)	1:89:B:ILE:HG12	1:88:B:TYR:H	2	0.24	0.08	0.24
(2,2154)	1:89:B:ILE:HG12	1:88:B:TYR:H	2	0.24	0.08	0.24
(2,1152)	1:24:B:LYS:H	1:24:B:LYS:HG2	2	0.22	0.02	0.22
(2,2584)	1:24:B:LYS:H	1:24:B:LYS:HG2	2	0.22	0.02	0.22
(2,294)	1:22:B:LYS:HG2	1:22:B:LYS:HE3	2	0.22	0.05	0.22
(2,1726)	1:22:B:LYS:HG2	1:22:B:LYS:HE3	2	0.22	0.05	0.22
(2,630)	1:88:B:TYR:H	1:86:B:GLY:HA3	2	0.2	0.06	0.2
(2,2062)	1:88:B:TYR:H	1:86:B:GLY:HA3	2	0.2	0.06	0.2
(2,289)	1:47:B:ILE:H	1:47:B:ILE:HD11	2	0.19	0.06	0.19
(2,289)	1:47:B:ILE:H	1:47:B:ILE:HD12	2	0.19	0.06	0.19
(2,289)	1:47:B:ILE:H	1:47:B:ILE:HD13	2	0.19	0.06	0.19
(2,520)	1:62:B:LYS:HE2	1:57:B:PHE:HZ	2	0.19	0.07	0.19
(2,1721)	1:47:B:ILE:H	1:47:B:ILE:HD11	2	0.19	0.06	0.19
(2,1721)	1:47:B:ILE:H	1:47:B:ILE:HD12	2	0.19	0.06	0.19
(2,1721)	1:47:B:ILE:H	1:47:B:ILE:HD13	2	0.19	0.06	0.19
(2,1952)	1:62:B:LYS:HE2	1:57:B:PHE:HZ	2	0.19	0.07	0.19
(2,136)	1:29:B:LEU:H	1:17:B:ASN:HD21	2	0.18	0.04	0.18
(2,212)	1:85:B:LYS:HG2	1:84:B:ILE:HA	2	0.18	0.03	0.18
(2,1137)	1:35:B:GLN:H	1:33:B:GLY:HA3	2	0.18	0.06	0.18
(2,1179)	1:90:B:GLU:HB2	1:90:B:GLU:H	2	0.18	0.0	0.18
(2,1568)	1:29:B:LEU:H	1:17:B:ASN:HD21	2	0.18	0.04	0.18
(2,1644)	1:85:B:LYS:HG2	1:84:B:ILE:HA	2	0.18	0.03	0.18

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,2569)	1:35:B:GLN:H	1:33:B:GLY:HA3	2	0.18	0.06	0.18
(2,2611)	1:90:B:GLU:HB2	1:90:B:GLU:H	2	0.18	0.0	0.18
(2,422)	1:22:B:LYS:HA	1:22:B:LYS:HE3	2	0.16	0.01	0.16
(2,886)	1:34:B:ASN:HB3	1:34:B:ASN:HD22	2	0.16	0.05	0.16
(2,1330)	1:66:B:PHE:H	1:54:B:TRP:H	2	0.16	0.05	0.16
(2,1854)	1:22:B:LYS:HA	1:22:B:LYS:HE3	2	0.16	0.01	0.16
(2,2318)	1:34:B:ASN:HB3	1:34:B:ASN:HD22	2	0.16	0.05	0.16
(2,2762)	1:66:B:PHE:H	1:54:B:TRP:H	2	0.16	0.05	0.16
(2,539)	1:79:B:ILE:H	1:82:B:LEU:HG	2	0.15	0.03	0.15
(2,1047)	1:89:B:ILE:H	1:88:B:TYR:H	2	0.15	0.03	0.15
(2,1971)	1:79:B:ILE:H	1:82:B:LEU:HG	2	0.15	0.03	0.15
(2,2479)	1:89:B:ILE:H	1:88:B:TYR:H	2	0.15	0.03	0.15
(2,342)	1:15:B:SER:HA	1:14:B:ASN:HB3	2	0.15	0.0	0.15
(2,1774)	1:15:B:SER:HA	1:14:B:ASN:HB3	2	0.15	0.0	0.15
(1,45)	1:62:B:LYS:O	1:58:B:VAL:N	2	0.14	0.02	0.14
(1,92)	1:62:B:LYS:O	1:58:B:VAL:N	2	0.14	0.02	0.14
(2,301)	1:22:B:LYS:HB2	1:22:B:LYS:HE3	2	0.14	0.01	0.14
(2,1733)	1:22:B:LYS:HB2	1:22:B:LYS:HE3	2	0.14	0.01	0.14
(2,807)	1:21:B:ASN:HB2	1:21:B:ASN:HD22	2	0.13	0.02	0.13
(2,1257)	1:84:B:ILE:H	1:83:B:ASN:H	2	0.13	0.01	0.13
(2,2239)	1:21:B:ASN:HB2	1:21:B:ASN:HD22	2	0.13	0.02	0.13
(2,2689)	1:84:B:ILE:H	1:83:B:ASN:H	2	0.13	0.01	0.13
(2,218)	1:16:B:VAL:HA	1:19:B:LYS:HG3	2	0.12	0.02	0.12
(2,749)	1:16:B:VAL:HG11	1:20:B:LEU:HD11	2	0.12	0.02	0.12
(2,749)	1:16:B:VAL:HG11	1:20:B:LEU:HD12	2	0.12	0.02	0.12
(2,749)	1:16:B:VAL:HG11	1:20:B:LEU:HD13	2	0.12	0.02	0.12
(2,749)	1:16:B:VAL:HG12	1:20:B:LEU:HD11	2	0.12	0.02	0.12
(2,749)	1:16:B:VAL:HG12	1:20:B:LEU:HD12	2	0.12	0.02	0.12
(2,749)	1:16:B:VAL:HG12	1:20:B:LEU:HD13	2	0.12	0.02	0.12
(2,749)	1:16:B:VAL:HG13	1:20:B:LEU:HD11	2	0.12	0.02	0.12
(2,749)	1:16:B:VAL:HG13	1:20:B:LEU:HD12	2	0.12	0.02	0.12
(2,749)	1:16:B:VAL:HG13	1:20:B:LEU:HD13	2	0.12	0.02	0.12
(2,1167)	1:24:B:LYS:HG2	1:23:B:GLY:H	2	0.12	0.01	0.12
(2,1650)	1:16:B:VAL:HA	1:19:B:LYS:HG3	2	0.12	0.02	0.12
(2,2181)	1:16:B:VAL:HG11	1:20:B:LEU:HD11	2	0.12	0.02	0.12
(2,2181)	1:16:B:VAL:HG11	1:20:B:LEU:HD12	2	0.12	0.02	0.12
(2,2181)	1:16:B:VAL:HG11	1:20:B:LEU:HD13	2	0.12	0.02	0.12
(2,2181)	1:16:B:VAL:HG12	1:20:B:LEU:HD11	2	0.12	0.02	0.12
(2,2181)	1:16:B:VAL:HG12	1:20:B:LEU:HD12	2	0.12	0.02	0.12
(2,2181)	1:16:B:VAL:HG12	1:20:B:LEU:HD13	2	0.12	0.02	0.12
(2,2181)	1:16:B:VAL:HG13	1:20:B:LEU:HD11	2	0.12	0.02	0.12
(2,2181)	1:16:B:VAL:HG13	1:20:B:LEU:HD12	2	0.12	0.02	0.12

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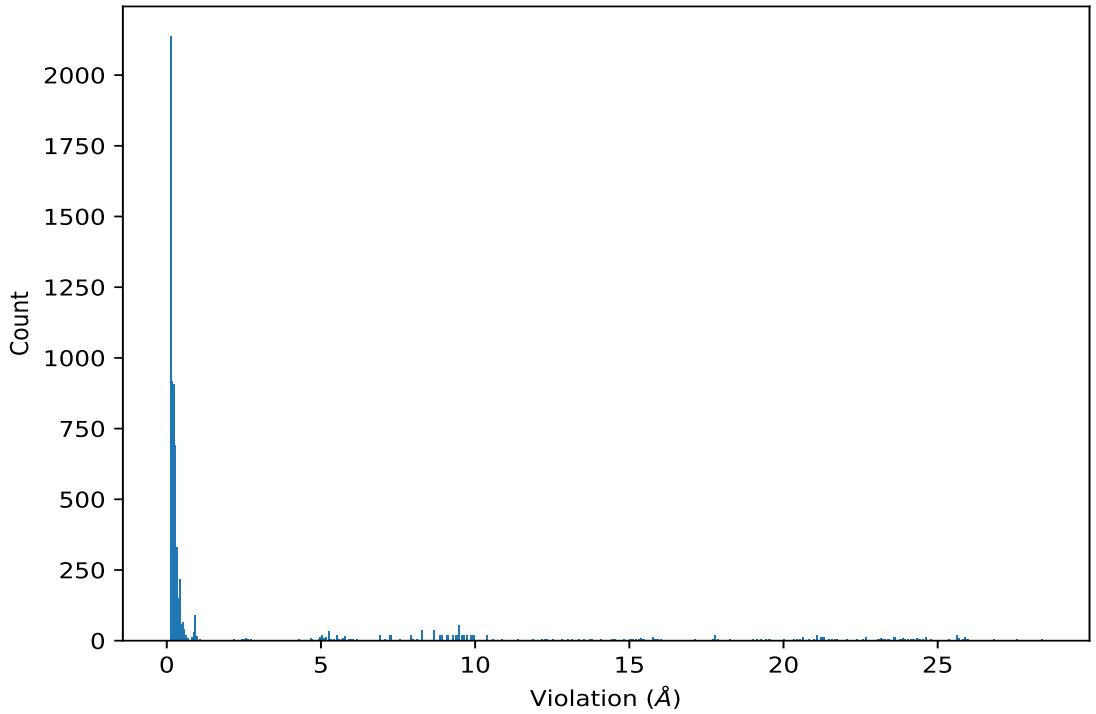
Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,2181)	1:16:B:VAL:HG13	1:20:B:LEU:HD13	2	0.12	0.02	0.12
(2,2599)	1:24:B:LYS:HG2	1:23:B:GLY:H	2	0.12	0.01	0.12
(2,28)	1:66:B:PHE:HZ	1:56:B:ILE:HA	2	0.12	0.02	0.12
(2,182)	1:41:B:SER:H	1:40:B:SER:HB2	2	0.12	0.02	0.12
(2,280)	1:27:B:LEU:H	1:26:B:LYS:HD3	2	0.12	0.02	0.12
(2,1460)	1:66:B:PHE:HZ	1:56:B:ILE:HA	2	0.12	0.02	0.12
(2,1614)	1:41:B:SER:H	1:40:B:SER:HB2	2	0.12	0.02	0.12
(2,1712)	1:27:B:LEU:H	1:26:B:LYS:HD3	2	0.12	0.02	0.12
(2,110)	1:49:B:TYR:HD1	1:24:B:LYS:HE3	2	0.12	0.0	0.12
(2,110)	1:49:B:TYR:HD2	1:24:B:LYS:HE3	2	0.12	0.0	0.12
(2,1113)	1:35:B:GLN:H	1:34:B:ASN:H	2	0.12	0.01	0.12
(2,1542)	1:49:B:TYR:HD1	1:24:B:LYS:HE3	2	0.12	0.0	0.12
(2,1542)	1:49:B:TYR:HD2	1:24:B:LYS:HE3	2	0.12	0.0	0.12
(2,2545)	1:35:B:GLN:H	1:34:B:ASN:H	2	0.12	0.01	0.12
(2,304)	1:7:B:GLU:H	1:7:B:GLU:HG2	2	0.12	0.0	0.12
(2,1736)	1:7:B:GLU:H	1:7:B:GLU:HG2	2	0.12	0.0	0.12
(2,702)	1:26:B:LYS:H	1:26:B:LYS:HB3	2	0.11	0.0	0.11
(2,1079)	1:19:B:LYS:HB3	1:18:B:ASP:H	2	0.11	0.0	0.11
(2,1128)	1:89:B:ILE:HG12	1:89:B:ILE:H	2	0.11	0.0	0.11
(2,2134)	1:26:B:LYS:H	1:26:B:LYS:HB3	2	0.11	0.0	0.11
(2,2511)	1:19:B:LYS:HB3	1:18:B:ASP:H	2	0.11	0.0	0.11
(2,2560)	1:89:B:ILE:HG12	1:89:B:ILE:H	2	0.11	0.0	0.11
(2,436)	1:9:B:GLN:HB3	1:9:B:GLN:HA	2	0.11	0.0	0.11
(2,1868)	1:9:B:GLN:HB3	1:9:B:GLN:HA	2	0.11	0.0	0.11

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

9.5 All violated distance restraints (i)

9.5.1 Histogram : Distribution of distance violations (i)

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



9.5.2 Table : All distance violations (i)

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

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2)	1:94:B:ILE:H	1:53:B:ASN:O	16	28.48
(1,1)	1:94:B:ILE:H	1:53:B:ASN:O	16	28.48
(1,2)	1:94:B:ILE:H	1:53:B:ASN:O	9	28.39
(1,1)	1:94:B:ILE:H	1:53:B:ASN:O	9	28.39
(1,2)	1:94:B:ILE:H	1:53:B:ASN:O	4	28.38
(1,1)	1:94:B:ILE:H	1:53:B:ASN:O	4	28.38
(1,2)	1:94:B:ILE:H	1:53:B:ASN:O	3	28.32
(1,1)	1:94:B:ILE:H	1:53:B:ASN:O	3	28.32
(1,2)	1:94:B:ILE:H	1:53:B:ASN:O	23	28.04
(1,1)	1:94:B:ILE:H	1:53:B:ASN:O	23	28.04
(1,2)	1:94:B:ILE:H	1:53:B:ASN:O	17	27.86
(1,1)	1:94:B:ILE:H	1:53:B:ASN:O	17	27.86
(1,2)	1:94:B:ILE:H	1:53:B:ASN:O	24	27.82
(1,1)	1:94:B:ILE:H	1:53:B:ASN:O	24	27.82
(1,4)	1:53:B:ASN:O	1:94:B:ILE:N	9	27.57
(1,3)	1:53:B:ASN:O	1:94:B:ILE:N	9	27.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2)	1:94:B:ILE:H	1:53:B:ASN:O	19	27.55
(1,1)	1:94:B:ILE:H	1:53:B:ASN:O	19	27.55
(1,4)	1:53:B:ASN:O	1:94:B:ILE:N	16	27.49
(1,3)	1:53:B:ASN:O	1:94:B:ILE:N	16	27.49
(1,4)	1:53:B:ASN:O	1:94:B:ILE:N	3	27.42
(1,3)	1:53:B:ASN:O	1:94:B:ILE:N	3	27.42
(1,2)	1:94:B:ILE:H	1:53:B:ASN:O	14	27.28
(1,1)	1:94:B:ILE:H	1:53:B:ASN:O	14	27.28
(1,2)	1:94:B:ILE:H	1:53:B:ASN:O	12	27.17
(1,1)	1:94:B:ILE:H	1:53:B:ASN:O	12	27.17
(1,4)	1:53:B:ASN:O	1:94:B:ILE:N	4	27.11
(1,3)	1:53:B:ASN:O	1:94:B:ILE:N	4	27.11
(1,4)	1:53:B:ASN:O	1:94:B:ILE:N	24	27.04
(1,3)	1:53:B:ASN:O	1:94:B:ILE:N	24	27.04
(1,2)	1:94:B:ILE:H	1:53:B:ASN:O	6	26.91
(1,1)	1:94:B:ILE:H	1:53:B:ASN:O	6	26.91
(1,4)	1:53:B:ASN:O	1:94:B:ILE:N	23	26.83
(1,3)	1:53:B:ASN:O	1:94:B:ILE:N	23	26.83
(1,2)	1:94:B:ILE:H	1:53:B:ASN:O	20	26.81
(1,1)	1:94:B:ILE:H	1:53:B:ASN:O	20	26.81
(1,4)	1:53:B:ASN:O	1:94:B:ILE:N	17	26.54
(1,3)	1:53:B:ASN:O	1:94:B:ILE:N	17	26.54
(1,2)	1:94:B:ILE:H	1:53:B:ASN:O	5	26.43
(1,1)	1:94:B:ILE:H	1:53:B:ASN:O	5	26.43
(1,4)	1:53:B:ASN:O	1:94:B:ILE:N	14	26.38
(1,3)	1:53:B:ASN:O	1:94:B:ILE:N	14	26.38
(1,4)	1:53:B:ASN:O	1:94:B:ILE:N	12	26.23
(1,3)	1:53:B:ASN:O	1:94:B:ILE:N	12	26.23
(1,4)	1:53:B:ASN:O	1:94:B:ILE:N	19	26.19
(1,3)	1:53:B:ASN:O	1:94:B:ILE:N	19	26.19
(2,2)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	4	25.98
(2,2)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	4	25.98
(2,2)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	4	25.98
(2,1)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	4	25.98
(2,1)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	4	25.98
(2,1)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	4	25.98
(2,2)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	9	25.95
(2,2)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	9	25.95
(2,2)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	9	25.95
(2,1)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	9	25.95
(2,1)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	9	25.95
(2,1)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	9	25.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	16	25.88
(2,2)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	16	25.88
(2,2)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	16	25.88
(2,1)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	16	25.88
(2,1)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	16	25.88
(2,1)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	16	25.88
(2,2)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	23	25.85
(2,2)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	23	25.85
(2,2)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	23	25.85
(2,1)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	23	25.85
(2,1)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	23	25.85
(2,1)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	23	25.85
(2,2)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	24	25.83
(2,2)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	24	25.83
(2,2)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	24	25.83
(2,1)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	24	25.83
(2,1)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	24	25.83
(2,1)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	24	25.83
(1,4)	1:53:B:ASN:O	1:94:B:ILE:N	20	25.77
(1,3)	1:53:B:ASN:O	1:94:B:ILE:N	20	25.77
(2,2)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	19	25.69
(2,2)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	19	25.69
(2,2)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	19	25.69
(2,1)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	19	25.69
(2,1)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	19	25.69
(2,1)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	19	25.69
(1,4)	1:53:B:ASN:O	1:94:B:ILE:N	6	25.69
(1,3)	1:53:B:ASN:O	1:94:B:ILE:N	6	25.69
(1,2)	1:94:B:ILE:H	1:53:B:ASN:O	1	25.67
(1,1)	1:94:B:ILE:H	1:53:B:ASN:O	1	25.67
(2,2)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	3	25.65
(2,2)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	3	25.65
(2,2)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	3	25.65
(2,1)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	3	25.65
(2,1)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	3	25.65
(2,1)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	3	25.65
(2,2)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	17	25.64
(2,2)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	17	25.64
(2,2)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	17	25.64
(2,1)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	17	25.64
(2,1)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	17	25.64
(2,1)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	17	25.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	14	25.61
(2,2)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	14	25.61
(2,2)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	14	25.61
(2,1)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	14	25.61
(2,1)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	14	25.61
(2,1)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	14	25.61
(1,2)	1:94:B:ILE:H	1:53:B:ASN:O	22	25.51
(1,1)	1:94:B:ILE:H	1:53:B:ASN:O	22	25.51
(2,2)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	12	25.36
(2,2)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	12	25.36
(2,2)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	12	25.36
(2,1)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	12	25.36
(2,1)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	12	25.36
(2,1)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	12	25.36
(1,2)	1:94:B:ILE:H	1:53:B:ASN:O	8	25.34
(1,1)	1:94:B:ILE:H	1:53:B:ASN:O	8	25.34
(1,4)	1:53:B:ASN:O	1:94:B:ILE:N	5	25.12
(1,3)	1:53:B:ASN:O	1:94:B:ILE:N	5	25.12
(1,2)	1:94:B:ILE:H	1:53:B:ASN:O	15	24.88
(1,1)	1:94:B:ILE:H	1:53:B:ASN:O	15	24.88
(2,2)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	20	24.79
(2,2)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	20	24.79
(2,2)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	20	24.79
(2,1)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	20	24.79
(2,1)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	20	24.79
(2,1)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	20	24.79
(1,4)	1:53:B:ASN:O	1:94:B:ILE:N	1	24.69
(1,3)	1:53:B:ASN:O	1:94:B:ILE:N	1	24.69
(2,2)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	6	24.63
(2,2)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	6	24.63
(2,2)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	6	24.63
(2,1)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	6	24.63
(2,1)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	6	24.63
(2,1)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	6	24.63
(2,2)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	5	24.61
(2,2)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	5	24.61
(2,2)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	5	24.61
(2,1)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	5	24.61
(2,1)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	5	24.61
(2,1)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	5	24.61
(2,2)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	1	24.53
(2,2)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	1	24.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	1	24.53
(2,1)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	1	24.53
(2,1)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	1	24.53
(2,1)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	1	24.53
(1,2)	1:94:B:ILE:H	1:53:B:ASN:O	7	24.43
(1,1)	1:94:B:ILE:H	1:53:B:ASN:O	7	24.43
(1,4)	1:53:B:ASN:O	1:94:B:ILE:N	22	24.42
(1,3)	1:53:B:ASN:O	1:94:B:ILE:N	22	24.42
(2,2)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	15	24.4
(2,2)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	15	24.4
(2,2)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	15	24.4
(2,1)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	15	24.4
(2,1)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	15	24.4
(2,1)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	15	24.4
(1,4)	1:53:B:ASN:O	1:94:B:ILE:N	8	24.31
(1,3)	1:53:B:ASN:O	1:94:B:ILE:N	8	24.31
(2,16)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	23	24.3
(2,16)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	23	24.3
(2,16)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	23	24.3
(2,15)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	23	24.3
(2,15)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	23	24.3
(2,15)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	23	24.3
(2,2)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	22	24.22
(2,2)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	22	24.22
(2,2)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	22	24.22
(2,1)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	22	24.22
(2,1)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	22	24.22
(2,1)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	22	24.22
(2,2)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	7	24.17
(2,2)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	7	24.17
(2,2)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	7	24.17
(2,1)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	7	24.17
(2,1)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	7	24.17
(2,1)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	7	24.17
(2,16)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	4	24.11
(2,16)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	4	24.11
(2,16)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	4	24.11
(2,15)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	4	24.11
(2,15)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	4	24.11
(2,15)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	4	24.11
(1,2)	1:94:B:ILE:H	1:53:B:ASN:O	2	24.09
(1,1)	1:94:B:ILE:H	1:53:B:ASN:O	2	24.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,16)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	3	24.04
(2,16)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	3	24.04
(2,16)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	3	24.04
(2,15)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	3	24.04
(2,15)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	3	24.04
(2,15)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	3	24.04
(1,2)	1:94:B:ILE:H	1:53:B:ASN:O	25	23.93
(1,1)	1:94:B:ILE:H	1:53:B:ASN:O	25	23.93
(1,4)	1:53:B:ASN:O	1:94:B:ILE:N	15	23.91
(1,3)	1:53:B:ASN:O	1:94:B:ILE:N	15	23.91
(2,16)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	19	23.9
(2,16)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	19	23.9
(2,16)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	19	23.9
(2,15)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	19	23.9
(2,15)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	19	23.9
(2,15)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	19	23.9
(1,2)	1:94:B:ILE:H	1:53:B:ASN:O	10	23.85
(1,1)	1:94:B:ILE:H	1:53:B:ASN:O	10	23.85
(2,2)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	8	23.8
(2,2)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	8	23.8
(2,2)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	8	23.8
(2,1)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	8	23.8
(2,1)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	8	23.8
(2,1)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	8	23.8
(2,16)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	14	23.76
(2,16)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	14	23.76
(2,16)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	14	23.76
(2,15)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	14	23.76
(2,15)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	14	23.76
(2,15)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	14	23.76
(1,2)	1:94:B:ILE:H	1:53:B:ASN:O	13	23.67
(1,1)	1:94:B:ILE:H	1:53:B:ASN:O	13	23.67
(2,16)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	16	23.65
(2,16)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	16	23.65
(2,16)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	16	23.65
(2,15)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	16	23.65
(2,15)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	16	23.65
(2,15)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	16	23.65
(2,16)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	24	23.6
(2,16)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	24	23.6
(2,16)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	24	23.6
(2,15)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	24	23.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,15)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	24	23.6
(2,15)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	24	23.6
(2,16)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	9	23.59
(2,16)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	9	23.59
(2,16)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	9	23.59
(2,15)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	9	23.59
(2,15)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	9	23.59
(2,15)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	9	23.59
(2,2)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	2	23.57
(2,2)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	2	23.57
(2,2)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	2	23.57
(2,1)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	2	23.57
(2,1)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	2	23.57
(2,1)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	2	23.57
(1,4)	1:53:B:ASN:O	1:94:B:ILE:N	7	23.51
(1,3)	1:53:B:ASN:O	1:94:B:ILE:N	7	23.51
(2,16)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	17	23.43
(2,16)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	17	23.43
(2,16)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	17	23.43
(2,15)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	17	23.43
(2,15)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	17	23.43
(2,15)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	17	23.43
(2,2)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	13	23.35
(2,2)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	13	23.35
(2,2)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	13	23.35
(2,1)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	13	23.35
(2,1)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	13	23.35
(2,1)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	13	23.35
(2,2)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	10	23.28
(2,2)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	10	23.28
(2,2)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	10	23.28
(2,1)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	10	23.28
(2,1)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	10	23.28
(2,1)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	10	23.28
(2,16)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	12	23.23
(2,16)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	12	23.23
(2,16)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	12	23.23
(2,15)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	12	23.23
(2,15)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	12	23.23
(2,15)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	12	23.23
(1,4)	1:53:B:ASN:O	1:94:B:ILE:N	2	23.18
(1,3)	1:53:B:ASN:O	1:94:B:ILE:N	2	23.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,16)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	20	23.17
(2,16)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	20	23.17
(2,16)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	20	23.17
(2,15)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	20	23.17
(2,15)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	20	23.17
(2,15)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	20	23.17
(1,2)	1:94:B:ILE:H	1:53:B:ASN:O	11	23.16
(1,1)	1:94:B:ILE:H	1:53:B:ASN:O	11	23.16
(2,2)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	25	23.13
(2,2)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	25	23.13
(2,2)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	25	23.13
(2,1)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	25	23.13
(2,1)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	25	23.13
(2,1)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	25	23.13
(2,16)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	6	23.06
(2,16)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	6	23.06
(2,16)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	6	23.06
(2,15)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	6	23.06
(2,15)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	6	23.06
(2,15)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	6	23.06
(1,4)	1:53:B:ASN:O	1:94:B:ILE:N	13	22.73
(1,3)	1:53:B:ASN:O	1:94:B:ILE:N	13	22.73
(2,16)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	1	22.67
(2,16)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	1	22.67
(2,16)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	1	22.67
(2,15)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	1	22.67
(2,15)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	1	22.67
(2,15)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	1	22.67
(2,16)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	15	22.66
(2,16)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	15	22.66
(2,16)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	15	22.66
(2,15)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	15	22.66
(2,15)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	15	22.66
(2,15)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	15	22.66
(1,4)	1:53:B:ASN:O	1:94:B:ILE:N	10	22.66
(1,3)	1:53:B:ASN:O	1:94:B:ILE:N	10	22.66
(1,4)	1:53:B:ASN:O	1:94:B:ILE:N	25	22.62
(1,3)	1:53:B:ASN:O	1:94:B:ILE:N	25	22.62
(2,16)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	5	22.56
(2,16)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	5	22.56
(2,16)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	5	22.56
(2,15)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	5	22.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,15)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	5	22.56
(2,15)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	5	22.56
(2,16)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	7	22.39
(2,16)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	7	22.39
(2,16)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	7	22.39
(2,15)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	7	22.39
(2,15)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	7	22.39
(2,15)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	7	22.39
(2,16)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	22	22.07
(2,16)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	22	22.07
(2,16)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	22	22.07
(2,15)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	22	22.07
(2,15)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	22	22.07
(2,15)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	22	22.07
(2,16)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	8	21.71
(2,16)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	8	21.71
(2,16)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	8	21.71
(2,15)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	8	21.71
(2,15)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	8	21.71
(2,15)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	8	21.71
(2,2)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	11	21.66
(2,2)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	11	21.66
(2,2)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	11	21.66
(2,1)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	11	21.66
(2,1)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	11	21.66
(2,1)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	11	21.66
(1,4)	1:53:B:ASN:O	1:94:B:ILE:N	11	21.61
(1,3)	1:53:B:ASN:O	1:94:B:ILE:N	11	21.61
(2,18)	1:94:B:ILE:HG21	1:54:B:TRP:HA	3	21.59
(2,18)	1:94:B:ILE:HG22	1:54:B:TRP:HA	3	21.59
(2,18)	1:94:B:ILE:HG23	1:54:B:TRP:HA	3	21.59
(2,17)	1:94:B:ILE:HG21	1:54:B:TRP:HA	3	21.59
(2,17)	1:94:B:ILE:HG22	1:54:B:TRP:HA	3	21.59
(2,17)	1:94:B:ILE:HG23	1:54:B:TRP:HA	3	21.59
(1,2)	1:94:B:ILE:H	1:53:B:ASN:O	18	21.53
(1,1)	1:94:B:ILE:H	1:53:B:ASN:O	18	21.53
(2,2)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	21	21.46
(2,2)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	21	21.46
(2,2)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	21	21.46
(2,1)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	21	21.46
(2,1)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	21	21.46
(2,1)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	21	21.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,16)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	13	21.31
(2,16)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	13	21.31
(2,16)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	13	21.31
(2,15)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	13	21.31
(2,15)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	13	21.31
(2,15)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	13	21.31
(2,16)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	25	21.3
(2,16)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	25	21.3
(2,16)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	25	21.3
(2,15)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	25	21.3
(2,15)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	25	21.3
(2,15)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	25	21.3
(2,18)	1:94:B:ILE:HG21	1:54:B:TRP:HA	9	21.28
(2,18)	1:94:B:ILE:HG22	1:54:B:TRP:HA	9	21.28
(2,18)	1:94:B:ILE:HG23	1:54:B:TRP:HA	9	21.28
(2,17)	1:94:B:ILE:HG21	1:54:B:TRP:HA	9	21.28
(2,17)	1:94:B:ILE:HG22	1:54:B:TRP:HA	9	21.28
(2,17)	1:94:B:ILE:HG23	1:54:B:TRP:HA	9	21.28
(2,18)	1:94:B:ILE:HG21	1:54:B:TRP:HA	16	21.27
(2,18)	1:94:B:ILE:HG22	1:54:B:TRP:HA	16	21.27
(2,18)	1:94:B:ILE:HG23	1:54:B:TRP:HA	16	21.27
(2,17)	1:94:B:ILE:HG21	1:54:B:TRP:HA	16	21.27
(2,17)	1:94:B:ILE:HG22	1:54:B:TRP:HA	16	21.27
(2,17)	1:94:B:ILE:HG23	1:54:B:TRP:HA	16	21.27
(2,18)	1:94:B:ILE:HG21	1:54:B:TRP:HA	4	21.24
(2,18)	1:94:B:ILE:HG22	1:54:B:TRP:HA	4	21.24
(2,18)	1:94:B:ILE:HG23	1:54:B:TRP:HA	4	21.24
(2,17)	1:94:B:ILE:HG21	1:54:B:TRP:HA	4	21.24
(2,17)	1:94:B:ILE:HG22	1:54:B:TRP:HA	4	21.24
(2,17)	1:94:B:ILE:HG23	1:54:B:TRP:HA	4	21.24
(2,2)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	18	21.21
(2,2)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	18	21.21
(2,2)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	18	21.21
(2,1)	1:94:B:ILE:HD11	1:54:B:TRP:HZ2	18	21.21
(2,1)	1:94:B:ILE:HD12	1:54:B:TRP:HZ2	18	21.21
(2,1)	1:94:B:ILE:HD13	1:54:B:TRP:HZ2	18	21.21
(2,16)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	2	21.09
(2,16)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	2	21.09
(2,16)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	2	21.09
(2,16)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	10	21.09
(2,16)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	10	21.09
(2,16)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	10	21.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,15)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	2	21.09
(2,15)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	2	21.09
(2,15)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	2	21.09
(2,15)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	10	21.09
(2,15)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	10	21.09
(2,15)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	10	21.09
(2,18)	1:94:B:ILE:HG21	1:54:B:TRP:HA	23	21.08
(2,18)	1:94:B:ILE:HG22	1:54:B:TRP:HA	23	21.08
(2,18)	1:94:B:ILE:HG23	1:54:B:TRP:HA	23	21.08
(2,17)	1:94:B:ILE:HG21	1:54:B:TRP:HA	23	21.08
(2,17)	1:94:B:ILE:HG22	1:54:B:TRP:HA	23	21.08
(2,17)	1:94:B:ILE:HG23	1:54:B:TRP:HA	23	21.08
(1,2)	1:94:B:ILE:H	1:53:B:ASN:O	21	21.02
(1,1)	1:94:B:ILE:H	1:53:B:ASN:O	21	21.02
(2,18)	1:94:B:ILE:HG21	1:54:B:TRP:HA	24	20.96
(2,18)	1:94:B:ILE:HG22	1:54:B:TRP:HA	24	20.96
(2,18)	1:94:B:ILE:HG23	1:54:B:TRP:HA	24	20.96
(2,17)	1:94:B:ILE:HG21	1:54:B:TRP:HA	24	20.96
(2,17)	1:94:B:ILE:HG22	1:54:B:TRP:HA	24	20.96
(2,17)	1:94:B:ILE:HG23	1:54:B:TRP:HA	24	20.96
(2,18)	1:94:B:ILE:HG21	1:54:B:TRP:HA	14	20.84
(2,18)	1:94:B:ILE:HG22	1:54:B:TRP:HA	14	20.84
(2,18)	1:94:B:ILE:HG23	1:54:B:TRP:HA	14	20.84
(2,17)	1:94:B:ILE:HG21	1:54:B:TRP:HA	14	20.84
(2,17)	1:94:B:ILE:HG22	1:54:B:TRP:HA	14	20.84
(2,17)	1:94:B:ILE:HG23	1:54:B:TRP:HA	14	20.84
(2,18)	1:94:B:ILE:HG21	1:54:B:TRP:HA	19	20.65
(2,18)	1:94:B:ILE:HG22	1:54:B:TRP:HA	19	20.65
(2,18)	1:94:B:ILE:HG23	1:54:B:TRP:HA	19	20.65
(2,17)	1:94:B:ILE:HG21	1:54:B:TRP:HA	19	20.65
(2,17)	1:94:B:ILE:HG22	1:54:B:TRP:HA	19	20.65
(2,17)	1:94:B:ILE:HG23	1:54:B:TRP:HA	19	20.65
(2,18)	1:94:B:ILE:HG21	1:54:B:TRP:HA	17	20.61
(2,18)	1:94:B:ILE:HG22	1:54:B:TRP:HA	17	20.61
(2,18)	1:94:B:ILE:HG23	1:54:B:TRP:HA	17	20.61
(2,17)	1:94:B:ILE:HG21	1:54:B:TRP:HA	17	20.61
(2,17)	1:94:B:ILE:HG22	1:54:B:TRP:HA	17	20.61
(2,17)	1:94:B:ILE:HG23	1:54:B:TRP:HA	17	20.61
(2,18)	1:94:B:ILE:HG21	1:54:B:TRP:HA	12	20.5
(2,18)	1:94:B:ILE:HG22	1:54:B:TRP:HA	12	20.5
(2,18)	1:94:B:ILE:HG23	1:54:B:TRP:HA	12	20.5
(2,17)	1:94:B:ILE:HG21	1:54:B:TRP:HA	12	20.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,17)	1:94:B:ILE:HG22	1:54:B:TRP:HA	12	20.5
(2,17)	1:94:B:ILE:HG23	1:54:B:TRP:HA	12	20.5
(2,18)	1:94:B:ILE:HG21	1:54:B:TRP:HA	6	20.42
(2,18)	1:94:B:ILE:HG22	1:54:B:TRP:HA	6	20.42
(2,18)	1:94:B:ILE:HG23	1:54:B:TRP:HA	6	20.42
(2,17)	1:94:B:ILE:HG21	1:54:B:TRP:HA	6	20.42
(2,17)	1:94:B:ILE:HG22	1:54:B:TRP:HA	6	20.42
(2,17)	1:94:B:ILE:HG23	1:54:B:TRP:HA	6	20.42
(2,18)	1:94:B:ILE:HG21	1:54:B:TRP:HA	20	20.31
(2,18)	1:94:B:ILE:HG22	1:54:B:TRP:HA	20	20.31
(2,18)	1:94:B:ILE:HG23	1:54:B:TRP:HA	20	20.31
(2,17)	1:94:B:ILE:HG21	1:54:B:TRP:HA	20	20.31
(2,17)	1:94:B:ILE:HG22	1:54:B:TRP:HA	20	20.31
(2,17)	1:94:B:ILE:HG23	1:54:B:TRP:HA	20	20.31
(1,4)	1:53:B:ASN:O	1:94:B:ILE:N	18	20.26
(1,3)	1:53:B:ASN:O	1:94:B:ILE:N	18	20.26
(2,16)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	11	20.01
(2,16)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	11	20.01
(2,16)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	11	20.01
(2,15)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	11	20.01
(2,15)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	11	20.01
(2,15)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	11	20.01
(1,4)	1:53:B:ASN:O	1:94:B:ILE:N	21	19.94
(1,3)	1:53:B:ASN:O	1:94:B:ILE:N	21	19.94
(2,18)	1:94:B:ILE:HG21	1:54:B:TRP:HA	1	19.56
(2,18)	1:94:B:ILE:HG22	1:54:B:TRP:HA	1	19.56
(2,18)	1:94:B:ILE:HG23	1:54:B:TRP:HA	1	19.56
(2,17)	1:94:B:ILE:HG21	1:54:B:TRP:HA	1	19.56
(2,17)	1:94:B:ILE:HG22	1:54:B:TRP:HA	1	19.56
(2,17)	1:94:B:ILE:HG23	1:54:B:TRP:HA	1	19.56
(2,18)	1:94:B:ILE:HG21	1:54:B:TRP:HA	5	19.52
(2,18)	1:94:B:ILE:HG22	1:54:B:TRP:HA	5	19.52
(2,18)	1:94:B:ILE:HG23	1:54:B:TRP:HA	5	19.52
(2,17)	1:94:B:ILE:HG21	1:54:B:TRP:HA	5	19.52
(2,17)	1:94:B:ILE:HG22	1:54:B:TRP:HA	5	19.52
(2,17)	1:94:B:ILE:HG23	1:54:B:TRP:HA	5	19.52
(2,16)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	21	19.44
(2,16)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	21	19.44
(2,16)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	21	19.44
(2,15)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	21	19.44
(2,15)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	21	19.44
(2,15)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	21	19.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,16)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	18	19.26
(2,16)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	18	19.26
(2,16)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	18	19.26
(2,15)	1:94:B:ILE:HG21	1:54:B:TRP:HZ2	18	19.26
(2,15)	1:94:B:ILE:HG22	1:54:B:TRP:HZ2	18	19.26
(2,15)	1:94:B:ILE:HG23	1:54:B:TRP:HZ2	18	19.26
(2,18)	1:94:B:ILE:HG21	1:54:B:TRP:HA	22	19.12
(2,18)	1:94:B:ILE:HG22	1:54:B:TRP:HA	22	19.12
(2,18)	1:94:B:ILE:HG23	1:54:B:TRP:HA	22	19.12
(2,17)	1:94:B:ILE:HG21	1:54:B:TRP:HA	22	19.12
(2,17)	1:94:B:ILE:HG22	1:54:B:TRP:HA	22	19.12
(2,17)	1:94:B:ILE:HG23	1:54:B:TRP:HA	22	19.12
(2,18)	1:94:B:ILE:HG21	1:54:B:TRP:HA	8	19.0
(2,18)	1:94:B:ILE:HG22	1:54:B:TRP:HA	8	19.0
(2,18)	1:94:B:ILE:HG23	1:54:B:TRP:HA	8	19.0
(2,17)	1:94:B:ILE:HG21	1:54:B:TRP:HA	8	19.0
(2,17)	1:94:B:ILE:HG22	1:54:B:TRP:HA	8	19.0
(2,17)	1:94:B:ILE:HG23	1:54:B:TRP:HA	8	19.0
(2,18)	1:94:B:ILE:HG21	1:54:B:TRP:HA	15	18.29
(2,18)	1:94:B:ILE:HG22	1:54:B:TRP:HA	15	18.29
(2,18)	1:94:B:ILE:HG23	1:54:B:TRP:HA	15	18.29
(2,17)	1:94:B:ILE:HG21	1:54:B:TRP:HA	15	18.29
(2,17)	1:94:B:ILE:HG22	1:54:B:TRP:HA	15	18.29
(2,17)	1:94:B:ILE:HG23	1:54:B:TRP:HA	15	18.29
(2,18)	1:94:B:ILE:HG21	1:54:B:TRP:HA	7	17.88
(2,18)	1:94:B:ILE:HG22	1:54:B:TRP:HA	7	17.88
(2,18)	1:94:B:ILE:HG23	1:54:B:TRP:HA	7	17.88
(2,17)	1:94:B:ILE:HG21	1:54:B:TRP:HA	7	17.88
(2,17)	1:94:B:ILE:HG22	1:54:B:TRP:HA	7	17.88
(2,17)	1:94:B:ILE:HG23	1:54:B:TRP:HA	7	17.88
(2,18)	1:94:B:ILE:HG21	1:54:B:TRP:HA	10	17.79
(2,18)	1:94:B:ILE:HG22	1:54:B:TRP:HA	10	17.79
(2,18)	1:94:B:ILE:HG23	1:54:B:TRP:HA	10	17.79
(2,18)	1:94:B:ILE:HG21	1:54:B:TRP:HA	13	17.79
(2,18)	1:94:B:ILE:HG22	1:54:B:TRP:HA	13	17.79
(2,18)	1:94:B:ILE:HG23	1:54:B:TRP:HA	13	17.79
(2,17)	1:94:B:ILE:HG21	1:54:B:TRP:HA	10	17.79
(2,17)	1:94:B:ILE:HG22	1:54:B:TRP:HA	10	17.79
(2,17)	1:94:B:ILE:HG23	1:54:B:TRP:HA	10	17.79
(2,17)	1:94:B:ILE:HG21	1:54:B:TRP:HA	13	17.79
(2,17)	1:94:B:ILE:HG22	1:54:B:TRP:HA	13	17.79
(2,17)	1:94:B:ILE:HG23	1:54:B:TRP:HA	13	17.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,18)	1:94:B:ILE:HG21	1:54:B:TRP:HA	2	17.76
(2,18)	1:94:B:ILE:HG22	1:54:B:TRP:HA	2	17.76
(2,18)	1:94:B:ILE:HG23	1:54:B:TRP:HA	2	17.76
(2,17)	1:94:B:ILE:HG21	1:54:B:TRP:HA	2	17.76
(2,17)	1:94:B:ILE:HG22	1:54:B:TRP:HA	2	17.76
(2,17)	1:94:B:ILE:HG23	1:54:B:TRP:HA	2	17.76
(2,18)	1:94:B:ILE:HG21	1:54:B:TRP:HA	25	17.7
(2,18)	1:94:B:ILE:HG22	1:54:B:TRP:HA	25	17.7
(2,18)	1:94:B:ILE:HG23	1:54:B:TRP:HA	25	17.7
(2,17)	1:94:B:ILE:HG21	1:54:B:TRP:HA	25	17.7
(2,17)	1:94:B:ILE:HG22	1:54:B:TRP:HA	25	17.7
(2,17)	1:94:B:ILE:HG23	1:54:B:TRP:HA	25	17.7
(2,18)	1:94:B:ILE:HG21	1:54:B:TRP:HA	11	17.13
(2,18)	1:94:B:ILE:HG22	1:54:B:TRP:HA	11	17.13
(2,18)	1:94:B:ILE:HG23	1:54:B:TRP:HA	11	17.13
(2,17)	1:94:B:ILE:HG21	1:54:B:TRP:HA	11	17.13
(2,17)	1:94:B:ILE:HG22	1:54:B:TRP:HA	11	17.13
(2,17)	1:94:B:ILE:HG23	1:54:B:TRP:HA	11	17.13
(1,6)	1:92:B:LYS:H	1:55:B:GLY:O	9	16.79
(1,5)	1:55:B:GLY:O	1:92:B:LYS:H	9	16.79
(1,6)	1:92:B:LYS:H	1:55:B:GLY:O	24	16.71
(1,5)	1:55:B:GLY:O	1:92:B:LYS:H	24	16.71
(1,6)	1:92:B:LYS:H	1:55:B:GLY:O	16	16.65
(1,5)	1:55:B:GLY:O	1:92:B:LYS:H	16	16.65
(1,6)	1:92:B:LYS:H	1:55:B:GLY:O	19	16.18
(1,5)	1:55:B:GLY:O	1:92:B:LYS:H	19	16.18
(1,6)	1:92:B:LYS:H	1:55:B:GLY:O	4	16.04
(1,5)	1:55:B:GLY:O	1:92:B:LYS:H	4	16.04
(1,6)	1:92:B:LYS:H	1:55:B:GLY:O	3	16.01
(1,5)	1:55:B:GLY:O	1:92:B:LYS:H	3	16.01
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB2	9	15.95
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB3	9	15.95
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB2	9	15.95
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB3	9	15.95
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB2	3	15.88
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB3	3	15.88
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB2	3	15.88
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB3	3	15.88
(1,8)	1:55:B:GLY:O	1:92:B:LYS:N	24	15.84
(1,7)	1:92:B:LYS:N	1:55:B:GLY:O	24	15.84
(1,6)	1:92:B:LYS:H	1:55:B:GLY:O	14	15.81
(1,5)	1:55:B:GLY:O	1:92:B:LYS:H	14	15.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,18)	1:94:B:ILE:HG21	1:54:B:TRP:HA	18	15.77
(2,18)	1:94:B:ILE:HG22	1:54:B:TRP:HA	18	15.77
(2,18)	1:94:B:ILE:HG23	1:54:B:TRP:HA	18	15.77
(2,17)	1:94:B:ILE:HG21	1:54:B:TRP:HA	18	15.77
(2,17)	1:94:B:ILE:HG22	1:54:B:TRP:HA	18	15.77
(2,17)	1:94:B:ILE:HG23	1:54:B:TRP:HA	18	15.77
(2,18)	1:94:B:ILE:HG21	1:54:B:TRP:HA	21	15.76
(2,18)	1:94:B:ILE:HG22	1:54:B:TRP:HA	21	15.76
(2,18)	1:94:B:ILE:HG23	1:54:B:TRP:HA	21	15.76
(2,17)	1:94:B:ILE:HG21	1:54:B:TRP:HA	21	15.76
(2,17)	1:94:B:ILE:HG22	1:54:B:TRP:HA	21	15.76
(2,17)	1:94:B:ILE:HG23	1:54:B:TRP:HA	21	15.76
(1,6)	1:92:B:LYS:H	1:55:B:GLY:O	17	15.76
(1,5)	1:55:B:GLY:O	1:92:B:LYS:H	17	15.76
(1,8)	1:55:B:GLY:O	1:92:B:LYS:N	9	15.67
(1,7)	1:92:B:LYS:N	1:55:B:GLY:O	9	15.67
(1,8)	1:55:B:GLY:O	1:92:B:LYS:N	16	15.52
(1,7)	1:92:B:LYS:N	1:55:B:GLY:O	16	15.52
(1,6)	1:92:B:LYS:H	1:55:B:GLY:O	12	15.49
(1,5)	1:55:B:GLY:O	1:92:B:LYS:H	12	15.49
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB2	4	15.48
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB3	4	15.48
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB2	4	15.48
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB3	4	15.48
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB2	14	15.44
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB3	14	15.44
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB2	14	15.44
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB3	14	15.44
(1,8)	1:55:B:GLY:O	1:92:B:LYS:N	4	15.39
(1,7)	1:92:B:LYS:N	1:55:B:GLY:O	4	15.39
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB2	16	15.38
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB3	16	15.38
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB2	24	15.38
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB3	24	15.38
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB2	16	15.38
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB3	16	15.38
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB2	24	15.38
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB3	24	15.38
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB2	23	15.34
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB3	23	15.34
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB2	23	15.34
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB3	23	15.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,8)	1:55:B:GLY:O	1:92:B:LYS:N	3	15.33
(1,7)	1:92:B:LYS:N	1:55:B:GLY:O	3	15.33
(1,8)	1:55:B:GLY:O	1:92:B:LYS:N	19	15.29
(1,7)	1:92:B:LYS:N	1:55:B:GLY:O	19	15.29
(1,6)	1:92:B:LYS:H	1:55:B:GLY:O	23	15.23
(1,5)	1:55:B:GLY:O	1:92:B:LYS:H	23	15.23
(1,8)	1:55:B:GLY:O	1:92:B:LYS:N	14	15.22
(1,7)	1:92:B:LYS:N	1:55:B:GLY:O	14	15.22
(1,8)	1:55:B:GLY:O	1:92:B:LYS:N	17	15.19
(1,7)	1:92:B:LYS:N	1:55:B:GLY:O	17	15.19
(1,6)	1:92:B:LYS:H	1:55:B:GLY:O	22	15.12
(1,5)	1:55:B:GLY:O	1:92:B:LYS:H	22	15.12
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB2	17	15.11
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB3	17	15.11
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB2	17	15.11
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB3	17	15.11
(1,6)	1:92:B:LYS:H	1:55:B:GLY:O	6	15.08
(1,5)	1:55:B:GLY:O	1:92:B:LYS:H	6	15.08
(1,6)	1:92:B:LYS:H	1:55:B:GLY:O	20	15.06
(1,5)	1:55:B:GLY:O	1:92:B:LYS:H	20	15.06
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB2	19	15.0
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB3	19	15.0
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB2	19	15.0
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB3	19	15.0
(1,8)	1:55:B:GLY:O	1:92:B:LYS:N	23	14.85
(1,7)	1:92:B:LYS:N	1:55:B:GLY:O	23	14.85
(1,6)	1:92:B:LYS:H	1:55:B:GLY:O	1	14.83
(1,5)	1:55:B:GLY:O	1:92:B:LYS:H	1	14.83
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB2	6	14.54
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB3	6	14.54
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB2	6	14.54
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB3	6	14.54
(1,8)	1:55:B:GLY:O	1:92:B:LYS:N	12	14.53
(1,7)	1:92:B:LYS:N	1:55:B:GLY:O	12	14.53
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB2	12	14.46
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB3	12	14.46
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB2	12	14.46
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB3	12	14.46
(1,6)	1:92:B:LYS:H	1:55:B:GLY:O	5	14.43
(1,5)	1:55:B:GLY:O	1:92:B:LYS:H	5	14.43
(1,8)	1:55:B:GLY:O	1:92:B:LYS:N	6	14.41
(1,7)	1:92:B:LYS:N	1:55:B:GLY:O	6	14.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6)	1:92:B:LYS:H	1:55:B:GLY:O	8	14.31
(1,5)	1:55:B:GLY:O	1:92:B:LYS:H	8	14.31
(1,8)	1:55:B:GLY:O	1:92:B:LYS:N	20	14.29
(1,7)	1:92:B:LYS:N	1:55:B:GLY:O	20	14.29
(1,6)	1:92:B:LYS:H	1:55:B:GLY:O	7	14.07
(1,5)	1:55:B:GLY:O	1:92:B:LYS:H	7	14.07
(1,8)	1:55:B:GLY:O	1:92:B:LYS:N	22	14.05
(1,7)	1:92:B:LYS:N	1:55:B:GLY:O	22	14.05
(1,8)	1:55:B:GLY:O	1:92:B:LYS:N	1	13.97
(1,7)	1:92:B:LYS:N	1:55:B:GLY:O	1	13.97
(1,6)	1:92:B:LYS:H	1:55:B:GLY:O	25	13.92
(1,5)	1:55:B:GLY:O	1:92:B:LYS:H	25	13.92
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB2	5	13.79
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB3	5	13.79
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB2	5	13.79
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB3	5	13.79
(1,8)	1:55:B:GLY:O	1:92:B:LYS:N	5	13.79
(1,7)	1:92:B:LYS:N	1:55:B:GLY:O	5	13.79
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB2	20	13.74
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB3	20	13.74
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB2	20	13.74
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB3	20	13.74
(1,6)	1:92:B:LYS:H	1:55:B:GLY:O	15	13.67
(1,5)	1:55:B:GLY:O	1:92:B:LYS:H	15	13.67
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB2	8	13.54
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB3	8	13.54
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB2	8	13.54
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB3	8	13.54
(1,8)	1:55:B:GLY:O	1:92:B:LYS:N	8	13.49
(1,7)	1:92:B:LYS:N	1:55:B:GLY:O	8	13.49
(1,8)	1:55:B:GLY:O	1:92:B:LYS:N	25	13.45
(1,7)	1:92:B:LYS:N	1:55:B:GLY:O	25	13.45
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB2	1	13.39
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB3	1	13.39
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB2	1	13.39
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB3	1	13.39
(1,6)	1:92:B:LYS:H	1:55:B:GLY:O	2	13.27
(1,5)	1:55:B:GLY:O	1:92:B:LYS:H	2	13.27
(1,8)	1:55:B:GLY:O	1:92:B:LYS:N	7	13.23
(1,7)	1:92:B:LYS:N	1:55:B:GLY:O	7	13.23
(1,6)	1:92:B:LYS:H	1:55:B:GLY:O	11	13.15
(1,5)	1:55:B:GLY:O	1:92:B:LYS:H	11	13.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB2	22	13.12
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB3	22	13.12
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB2	22	13.12
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB3	22	13.12
(1,6)	1:92:B:LYS:H	1:55:B:GLY:O	13	13.04
(1,5)	1:55:B:GLY:O	1:92:B:LYS:H	13	13.04
(1,6)	1:92:B:LYS:H	1:55:B:GLY:O	10	13.03
(1,5)	1:55:B:GLY:O	1:92:B:LYS:H	10	13.03
(1,8)	1:55:B:GLY:O	1:92:B:LYS:N	15	13.01
(1,7)	1:92:B:LYS:N	1:55:B:GLY:O	15	13.01
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB2	25	12.8
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB3	25	12.8
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB2	25	12.8
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB3	25	12.8
(1,8)	1:55:B:GLY:O	1:92:B:LYS:N	2	12.57
(1,7)	1:92:B:LYS:N	1:55:B:GLY:O	2	12.57
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB2	15	12.54
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB3	15	12.54
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB2	15	12.54
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB3	15	12.54
(1,8)	1:55:B:GLY:O	1:92:B:LYS:N	13	12.45
(1,7)	1:92:B:LYS:N	1:55:B:GLY:O	13	12.45
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB2	7	12.32
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB3	7	12.32
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB2	7	12.32
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB3	7	12.32
(1,8)	1:55:B:GLY:O	1:92:B:LYS:N	11	12.3
(1,7)	1:92:B:LYS:N	1:55:B:GLY:O	11	12.3
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB2	10	12.27
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB3	10	12.27
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB2	10	12.27
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB3	10	12.27
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB2	2	12.17
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB3	2	12.17
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB2	2	12.17
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB3	2	12.17
(1,8)	1:55:B:GLY:O	1:92:B:LYS:N	10	12.14
(1,7)	1:92:B:LYS:N	1:55:B:GLY:O	10	12.14
(1,6)	1:92:B:LYS:H	1:55:B:GLY:O	21	12.02
(1,5)	1:55:B:GLY:O	1:92:B:LYS:H	21	12.02
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB2	13	11.88
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB3	13	11.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB2	13	11.88
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB3	13	11.88
(1,8)	1:55:B:GLY:O	1:92:B:LYS:N	21	11.43
(1,7)	1:92:B:LYS:N	1:55:B:GLY:O	21	11.43
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB2	11	11.37
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB3	11	11.37
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB2	11	11.37
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB3	11	11.37
(1,6)	1:92:B:LYS:H	1:55:B:GLY:O	18	11.34
(1,5)	1:55:B:GLY:O	1:92:B:LYS:H	18	11.34
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB2	21	10.87
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB3	21	10.87
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB2	21	10.87
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB3	21	10.87
(1,8)	1:55:B:GLY:O	1:92:B:LYS:N	18	10.79
(1,7)	1:92:B:LYS:N	1:55:B:GLY:O	18	10.79
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB2	18	10.6
(2,14)	1:54:B:TRP:HA	1:92:B:LYS:HB3	18	10.6
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB2	18	10.6
(2,13)	1:54:B:TRP:HA	1:92:B:LYS:HB3	18	10.6
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	23	10.38
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	23	10.38
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	23	10.38
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	23	10.38
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	23	10.38
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	23	10.38
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	23	10.38
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	23	10.38
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	23	10.38
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	23	10.38
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	23	10.38
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	23	10.38
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	23	10.38
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	23	10.38
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	23	10.38
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	23	10.38
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	23	10.38
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	23	10.38
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	14	9.98
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	14	9.98
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	14	9.98
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	14	9.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	14	9.98
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	14	9.98
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	14	9.98
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	14	9.98
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	14	9.98
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	14	9.98
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	14	9.98
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	14	9.98
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	14	9.98
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	14	9.98
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	14	9.98
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	14	9.98
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	14	9.98
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	14	9.98
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	19	9.95
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	19	9.95
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	19	9.95
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	19	9.95
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	19	9.95
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	19	9.95
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	19	9.95
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	19	9.95
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	19	9.95
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	19	9.95
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	19	9.95
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	19	9.95
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	19	9.95
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	19	9.95
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	19	9.95
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	19	9.95
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	19	9.95
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	19	9.95
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	17	9.89
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	17	9.89
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	17	9.89
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	17	9.89
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	17	9.89
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	17	9.89
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	17	9.89
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	17	9.89
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	17	9.89
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	17	9.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	17	9.89
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	17	9.89
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	17	9.89
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	17	9.89
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	17	9.89
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	17	9.89
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	17	9.89
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	17	9.89
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	1	9.71
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	1	9.71
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	1	9.71
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	1	9.71
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	1	9.71
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	1	9.71
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	1	9.71
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	1	9.71
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	1	9.71
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	1	9.71
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	1	9.71
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	1	9.71
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	1	9.71
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	1	9.71
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	1	9.71
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	1	9.71
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	1	9.71
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	1	9.71
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	6	9.64
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	6	9.64
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	6	9.64
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	6	9.64
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	6	9.64
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	6	9.64
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	6	9.64
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	6	9.64
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	6	9.64
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	6	9.64
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	6	9.64
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	6	9.64
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	6	9.64
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	6	9.64
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	6	9.64
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	6	9.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	6	9.64
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	6	9.64
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	4	9.57
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	4	9.57
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	4	9.57
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	4	9.57
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	4	9.57
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	4	9.57
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	4	9.57
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	4	9.57
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	4	9.57
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	4	9.57
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	4	9.57
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	4	9.57
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	4	9.57
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	4	9.57
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	4	9.57
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	4	9.57
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	4	9.57
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	4	9.57
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	12	9.48
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	12	9.48
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	12	9.48
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	12	9.48
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	12	9.48
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	12	9.48
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	12	9.48
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	12	9.48
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	12	9.48
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	15	9.48
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	15	9.48
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	15	9.48
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	15	9.48
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	15	9.48
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	15	9.48
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	15	9.48
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	15	9.48
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	15	9.48
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	12	9.48
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	12	9.48
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	12	9.48
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	12	9.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	12	9.48
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	12	9.48
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	12	9.48
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	12	9.48
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	12	9.48
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	15	9.48
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	15	9.48
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	15	9.48
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	15	9.48
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	15	9.48
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	15	9.48
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	15	9.48
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	15	9.48
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	15	9.48
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	3	9.47
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	3	9.47
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	3	9.47
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	3	9.47
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	3	9.47
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	3	9.47
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	3	9.47
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	3	9.47
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	3	9.47
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	3	9.47
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	3	9.47
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	3	9.47
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	3	9.47
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	3	9.47
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	3	9.47
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	3	9.47
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	3	9.47
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	3	9.47
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	16	9.43
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	16	9.43
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	16	9.43
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	16	9.43
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	16	9.43
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	16	9.43
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	16	9.43
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	16	9.43
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	16	9.43
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	16	9.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	16	9.43
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	16	9.43
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	16	9.43
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	16	9.43
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	16	9.43
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	16	9.43
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	16	9.43
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	16	9.43
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	9	9.38
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	9	9.38
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	9	9.38
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	9	9.38
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	9	9.38
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	9	9.38
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	9	9.38
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	9	9.38
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	9	9.38
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	9	9.38
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	9	9.38
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	9	9.38
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	9	9.38
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	9	9.38
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	9	9.38
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	9	9.38
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	9	9.38
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	9	9.38
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	25	9.28
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	25	9.28
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	25	9.28
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	25	9.28
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	25	9.28
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	25	9.28
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	25	9.28
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	25	9.28
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	25	9.28
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	25	9.28
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	25	9.28
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	25	9.28
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	25	9.28
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	25	9.28
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	25	9.28
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	25	9.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	25	9.28
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	25	9.28
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	24	9.13
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	24	9.13
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	24	9.13
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	24	9.13
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	24	9.13
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	24	9.13
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	24	9.13
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	24	9.13
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	24	9.13
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	24	9.13
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	24	9.13
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	24	9.13
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	24	9.13
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	24	9.13
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	24	9.13
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	24	9.13
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	24	9.13
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	24	9.13
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	22	9.06
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	22	9.06
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	22	9.06
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	22	9.06
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	22	9.06
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	22	9.06
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	22	9.06
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	22	9.06
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	22	9.06
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	22	9.06
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	22	9.06
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	22	9.06
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	22	9.06
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	22	9.06
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	22	9.06
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	22	9.06
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	22	9.06
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	22	9.06
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	20	8.9
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	20	8.9
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	20	8.9
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	20	8.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	20	8.9
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	20	8.9
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	20	8.9
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	20	8.9
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	20	8.9
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	20	8.9
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	20	8.9
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	20	8.9
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	20	8.9
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	20	8.9
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	20	8.9
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	20	8.9
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	20	8.9
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	20	8.9
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	7	8.86
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	7	8.86
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	7	8.86
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	7	8.86
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	7	8.86
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	7	8.86
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	7	8.86
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	7	8.86
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	7	8.86
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	7	8.86
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	7	8.86
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	7	8.86
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	7	8.86
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	7	8.86
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	7	8.86
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	7	8.86
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	7	8.86
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	7	8.86
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	8	8.68
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	8	8.68
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	8	8.68
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	8	8.68
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	8	8.68
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	8	8.68
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	8	8.68
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	8	8.68
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	8	8.68
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	8	8.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	8	8.68
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	8	8.68
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	8	8.68
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	8	8.68
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	8	8.68
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	8	8.68
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	8	8.68
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	8	8.68
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	5	8.65
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	5	8.65
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	5	8.65
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	5	8.65
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	5	8.65
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	5	8.65
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	5	8.65
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	5	8.65
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	5	8.65
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	5	8.65
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	5	8.65
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	5	8.65
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	5	8.65
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	5	8.65
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	5	8.65
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	5	8.65
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	5	8.65
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	5	8.65
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	11	8.28
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	11	8.28
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	11	8.28
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	11	8.28
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	11	8.28
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	11	8.28
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	11	8.28
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	11	8.28
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	11	8.28
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	11	8.28
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	11	8.28
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	11	8.28
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	11	8.28
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	11	8.28
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	11	8.28
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	11	8.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	11	8.28
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	11	8.28
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	10	8.27
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	10	8.27
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	10	8.27
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	10	8.27
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	10	8.27
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	10	8.27
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	10	8.27
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	10	8.27
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	10	8.27
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	10	8.27
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	10	8.27
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	10	8.27
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	10	8.27
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	10	8.27
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	10	8.27
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	10	8.27
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	10	8.27
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	10	8.27
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD11	25	8.12
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD12	25	8.12
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD13	25	8.12
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD11	25	8.12
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD12	25	8.12
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD13	25	8.12
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD11	14	7.96
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD12	14	7.96
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD13	14	7.96
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD11	14	7.96
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD12	14	7.96
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD13	14	7.96
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	21	7.91
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	21	7.91
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	21	7.91
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	21	7.91
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	21	7.91
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	21	7.91
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	21	7.91
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	21	7.91
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	21	7.91
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	21	7.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	21	7.91
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	21	7.91
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	21	7.91
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	21	7.91
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	21	7.91
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	21	7.91
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	21	7.91
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	21	7.91
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD11	23	7.6
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD12	23	7.6
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD13	23	7.6
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD11	23	7.6
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD12	23	7.6
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD13	23	7.6
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	13	7.28
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	13	7.28
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	13	7.28
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	13	7.28
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	13	7.28
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	13	7.28
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	13	7.28
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	13	7.28
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	13	7.28
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	13	7.28
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	13	7.28
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	13	7.28
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	13	7.28
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	13	7.28
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	13	7.28
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	13	7.28
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	13	7.28
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	13	7.28
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	2	7.23
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	2	7.23
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	2	7.23
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	2	7.23
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	2	7.23
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	2	7.23
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	2	7.23
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	2	7.23
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	2	7.23
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	2	7.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	2	7.23
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	2	7.23
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	2	7.23
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	2	7.23
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	2	7.23
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	2	7.23
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	2	7.23
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	2	7.23
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD11	13	7.08
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD12	13	7.08
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD13	13	7.08
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD11	13	7.08
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD12	13	7.08
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD13	13	7.08
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	18	6.92
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	18	6.92
(2,4)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	18	6.92
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	18	6.92
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	18	6.92
(2,4)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	18	6.92
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	18	6.92
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	18	6.92
(2,4)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	18	6.92
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD11	18	6.92
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD12	18	6.92
(2,3)	1:91:B:ILE:HG21	1:56:B:ILE:HD13	18	6.92
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD11	18	6.92
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD12	18	6.92
(2,3)	1:91:B:ILE:HG22	1:56:B:ILE:HD13	18	6.92
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD11	18	6.92
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD12	18	6.92
(2,3)	1:91:B:ILE:HG23	1:56:B:ILE:HD13	18	6.92
(1,11)	1:90:B:GLU:H	1:57:B:PHE:O	23	6.3
(1,9)	1:90:B:GLU:H	1:57:B:PHE:O	23	6.3
(1,11)	1:90:B:GLU:H	1:57:B:PHE:O	14	6.2
(1,9)	1:90:B:GLU:H	1:57:B:PHE:O	14	6.2
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD11	17	6.16
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD12	17	6.16
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD13	17	6.16
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD11	17	6.16
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD12	17	6.16
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD13	17	6.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD11	1	6.04
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD12	1	6.04
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD13	1	6.04
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD11	1	6.04
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD12	1	6.04
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD13	1	6.04
(1,11)	1:90:B:GLU:H	1:57:B:PHE:O	4	5.99
(1,11)	1:90:B:GLU:H	1:57:B:PHE:O	17	5.99
(1,9)	1:90:B:GLU:H	1:57:B:PHE:O	4	5.99
(1,9)	1:90:B:GLU:H	1:57:B:PHE:O	17	5.99
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD11	4	5.94
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD12	4	5.94
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD13	4	5.94
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD11	4	5.94
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD12	4	5.94
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD13	4	5.94
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD11	19	5.78
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD12	19	5.78
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD13	19	5.78
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD11	19	5.78
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD12	19	5.78
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD13	19	5.78
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD11	2	5.77
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD12	2	5.77
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD13	2	5.77
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD11	2	5.77
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD12	2	5.77
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD13	2	5.77
(1,12)	1:57:B:PHE:O	1:90:B:GLU:N	23	5.75
(1,11)	1:90:B:GLU:H	1:57:B:PHE:O	19	5.75
(1,10)	1:57:B:PHE:O	1:90:B:GLU:N	23	5.75
(1,9)	1:90:B:GLU:H	1:57:B:PHE:O	19	5.75
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD11	6	5.71
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD12	6	5.71
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD13	6	5.71
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD11	6	5.71
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD12	6	5.71
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD13	6	5.71
(1,11)	1:90:B:GLU:H	1:57:B:PHE:O	25	5.71
(1,9)	1:90:B:GLU:H	1:57:B:PHE:O	25	5.71
(1,12)	1:57:B:PHE:O	1:90:B:GLU:N	14	5.69
(1,11)	1:90:B:GLU:H	1:57:B:PHE:O	12	5.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,10)	1:57:B:PHE:O	1:90:B:GLU:N	14	5.69
(1,9)	1:90:B:GLU:H	1:57:B:PHE:O	12	5.69
(1,11)	1:90:B:GLU:H	1:57:B:PHE:O	16	5.65
(1,9)	1:90:B:GLU:H	1:57:B:PHE:O	16	5.65
(1,11)	1:90:B:GLU:H	1:57:B:PHE:O	9	5.62
(1,9)	1:90:B:GLU:H	1:57:B:PHE:O	9	5.62
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD11	12	5.56
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD12	12	5.56
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD13	12	5.56
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD11	12	5.56
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD12	12	5.56
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD13	12	5.56
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD11	18	5.54
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD12	18	5.54
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD13	18	5.54
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD11	18	5.54
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD12	18	5.54
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD13	18	5.54
(1,11)	1:90:B:GLU:H	1:57:B:PHE:O	3	5.54
(1,11)	1:90:B:GLU:H	1:57:B:PHE:O	20	5.54
(1,11)	1:90:B:GLU:H	1:57:B:PHE:O	24	5.54
(1,9)	1:90:B:GLU:H	1:57:B:PHE:O	3	5.54
(1,9)	1:90:B:GLU:H	1:57:B:PHE:O	20	5.54
(1,9)	1:90:B:GLU:H	1:57:B:PHE:O	24	5.54
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD11	16	5.51
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD12	16	5.51
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD13	16	5.51
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD11	16	5.51
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD12	16	5.51
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD13	16	5.51
(1,11)	1:90:B:GLU:H	1:57:B:PHE:O	1	5.51
(1,9)	1:90:B:GLU:H	1:57:B:PHE:O	1	5.51
(1,12)	1:57:B:PHE:O	1:90:B:GLU:N	17	5.44
(1,10)	1:57:B:PHE:O	1:90:B:GLU:N	17	5.44
(1,12)	1:57:B:PHE:O	1:90:B:GLU:N	4	5.41
(1,10)	1:57:B:PHE:O	1:90:B:GLU:N	4	5.41
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD11	9	5.33
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD12	9	5.33
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD13	9	5.33
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD11	9	5.33
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD12	9	5.33
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD13	9	5.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD11	15	5.3
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD12	15	5.3
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD13	15	5.3
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD11	15	5.3
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD12	15	5.3
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD13	15	5.3
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD11	24	5.29
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD12	24	5.29
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD13	24	5.29
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD11	24	5.29
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD12	24	5.29
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD13	24	5.29
(1,11)	1:90:B:GLU:H	1:57:B:PHE:O	15	5.29
(1,9)	1:90:B:GLU:H	1:57:B:PHE:O	15	5.29
(1,11)	1:90:B:GLU:H	1:57:B:PHE:O	6	5.28
(1,11)	1:90:B:GLU:H	1:57:B:PHE:O	22	5.28
(1,9)	1:90:B:GLU:H	1:57:B:PHE:O	6	5.28
(1,9)	1:90:B:GLU:H	1:57:B:PHE:O	22	5.28
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD11	22	5.27
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD12	22	5.27
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD13	22	5.27
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD11	22	5.27
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD12	22	5.27
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD13	22	5.27
(1,12)	1:57:B:PHE:O	1:90:B:GLU:N	25	5.27
(1,10)	1:57:B:PHE:O	1:90:B:GLU:N	25	5.27
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD11	20	5.25
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD12	20	5.25
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD13	20	5.25
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD11	20	5.25
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD12	20	5.25
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD13	20	5.25
(1,12)	1:57:B:PHE:O	1:90:B:GLU:N	19	5.2
(1,10)	1:57:B:PHE:O	1:90:B:GLU:N	19	5.2
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD11	8	5.17
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD12	8	5.17
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD13	8	5.17
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD11	8	5.17
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD12	8	5.17
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD13	8	5.17
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD11	11	5.15
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD12	11	5.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD13	11	5.15
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD11	11	5.15
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD12	11	5.15
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD13	11	5.15
(1,12)	1:57:B:PHE:O	1:90:B:GLU:N	12	5.14
(1,10)	1:57:B:PHE:O	1:90:B:GLU:N	12	5.14
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD11	21	5.12
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD12	21	5.12
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD13	21	5.12
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD11	21	5.12
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD12	21	5.12
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD13	21	5.12
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD11	5	5.08
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD12	5	5.08
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD13	5	5.08
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD11	5	5.08
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD12	5	5.08
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD13	5	5.08
(1,12)	1:57:B:PHE:O	1:90:B:GLU:N	24	5.06
(1,10)	1:57:B:PHE:O	1:90:B:GLU:N	24	5.06
(1,11)	1:90:B:GLU:H	1:57:B:PHE:O	13	5.05
(1,9)	1:90:B:GLU:H	1:57:B:PHE:O	13	5.05
(1,12)	1:57:B:PHE:O	1:90:B:GLU:N	9	5.04
(1,11)	1:90:B:GLU:H	1:57:B:PHE:O	5	5.04
(1,10)	1:57:B:PHE:O	1:90:B:GLU:N	9	5.04
(1,9)	1:90:B:GLU:H	1:57:B:PHE:O	5	5.04
(1,12)	1:57:B:PHE:O	1:90:B:GLU:N	16	5.03
(1,10)	1:57:B:PHE:O	1:90:B:GLU:N	16	5.03
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD11	3	5.02
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD12	3	5.02
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD13	3	5.02
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD11	3	5.02
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD12	3	5.02
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD13	3	5.02
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD11	10	5.01
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD12	10	5.01
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD13	10	5.01
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD11	10	5.01
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD12	10	5.01
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD13	10	5.01
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD11	7	4.98
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD12	7	4.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,12)	1:58:B:VAL:HB	1:91:B:ILE:HD13	7	4.98
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD11	7	4.98
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD12	7	4.98
(2,11)	1:58:B:VAL:HB	1:91:B:ILE:HD13	7	4.98
(1,11)	1:90:B:GLU:H	1:57:B:PHE:O	7	4.96
(1,11)	1:90:B:GLU:H	1:57:B:PHE:O	8	4.96
(1,9)	1:90:B:GLU:H	1:57:B:PHE:O	7	4.96
(1,9)	1:90:B:GLU:H	1:57:B:PHE:O	8	4.96
(1,12)	1:57:B:PHE:O	1:90:B:GLU:N	1	4.95
(1,12)	1:57:B:PHE:O	1:90:B:GLU:N	20	4.95
(1,10)	1:57:B:PHE:O	1:90:B:GLU:N	1	4.95
(1,10)	1:57:B:PHE:O	1:90:B:GLU:N	20	4.95
(1,12)	1:57:B:PHE:O	1:90:B:GLU:N	3	4.91
(1,10)	1:57:B:PHE:O	1:90:B:GLU:N	3	4.91
(1,11)	1:90:B:GLU:H	1:57:B:PHE:O	2	4.9
(1,9)	1:90:B:GLU:H	1:57:B:PHE:O	2	4.9
(1,12)	1:57:B:PHE:O	1:90:B:GLU:N	6	4.81
(1,10)	1:57:B:PHE:O	1:90:B:GLU:N	6	4.81
(1,12)	1:57:B:PHE:O	1:90:B:GLU:N	13	4.76
(1,10)	1:57:B:PHE:O	1:90:B:GLU:N	13	4.76
(1,12)	1:57:B:PHE:O	1:90:B:GLU:N	22	4.73
(1,11)	1:90:B:GLU:H	1:57:B:PHE:O	21	4.73
(1,10)	1:57:B:PHE:O	1:90:B:GLU:N	22	4.73
(1,9)	1:90:B:GLU:H	1:57:B:PHE:O	21	4.73
(1,11)	1:90:B:GLU:H	1:57:B:PHE:O	10	4.71
(1,9)	1:90:B:GLU:H	1:57:B:PHE:O	10	4.71
(1,12)	1:57:B:PHE:O	1:90:B:GLU:N	5	4.69
(1,12)	1:57:B:PHE:O	1:90:B:GLU:N	15	4.69
(1,11)	1:90:B:GLU:H	1:57:B:PHE:O	11	4.69
(1,10)	1:57:B:PHE:O	1:90:B:GLU:N	5	4.69
(1,10)	1:57:B:PHE:O	1:90:B:GLU:N	15	4.69
(1,9)	1:90:B:GLU:H	1:57:B:PHE:O	11	4.69
(1,11)	1:90:B:GLU:H	1:57:B:PHE:O	18	4.66
(1,9)	1:90:B:GLU:H	1:57:B:PHE:O	18	4.66
(1,12)	1:57:B:PHE:O	1:90:B:GLU:N	2	4.52
(1,10)	1:57:B:PHE:O	1:90:B:GLU:N	2	4.52
(1,12)	1:57:B:PHE:O	1:90:B:GLU:N	7	4.46
(1,10)	1:57:B:PHE:O	1:90:B:GLU:N	7	4.46
(1,12)	1:57:B:PHE:O	1:90:B:GLU:N	8	4.41
(1,10)	1:57:B:PHE:O	1:90:B:GLU:N	8	4.41
(1,12)	1:57:B:PHE:O	1:90:B:GLU:N	11	4.38
(1,10)	1:57:B:PHE:O	1:90:B:GLU:N	11	4.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,12)	1:57:B:PHE:O	1:90:B:GLU:N	21	4.28
(1,10)	1:57:B:PHE:O	1:90:B:GLU:N	21	4.28
(1,12)	1:57:B:PHE:O	1:90:B:GLU:N	10	4.26
(1,10)	1:57:B:PHE:O	1:90:B:GLU:N	10	4.26
(1,12)	1:57:B:PHE:O	1:90:B:GLU:N	18	4.23
(1,10)	1:57:B:PHE:O	1:90:B:GLU:N	18	4.23
(2,22)	1:58:B:VAL:HA	1:89:B:ILE:HB	14	3.61
(2,21)	1:58:B:VAL:HA	1:89:B:ILE:HB	14	3.61
(2,22)	1:58:B:VAL:HA	1:89:B:ILE:HB	1	3.29
(2,21)	1:58:B:VAL:HA	1:89:B:ILE:HB	1	3.29
(2,22)	1:58:B:VAL:HA	1:89:B:ILE:HB	25	3.11
(2,21)	1:58:B:VAL:HA	1:89:B:ILE:HB	25	3.11
(2,22)	1:58:B:VAL:HA	1:89:B:ILE:HB	17	3.08
(2,21)	1:58:B:VAL:HA	1:89:B:ILE:HB	17	3.08
(2,22)	1:58:B:VAL:HA	1:89:B:ILE:HB	4	3.01
(2,21)	1:58:B:VAL:HA	1:89:B:ILE:HB	4	3.01
(2,22)	1:58:B:VAL:HA	1:89:B:ILE:HB	6	2.89
(2,21)	1:58:B:VAL:HA	1:89:B:ILE:HB	6	2.89
(2,22)	1:58:B:VAL:HA	1:89:B:ILE:HB	23	2.72
(2,21)	1:58:B:VAL:HA	1:89:B:ILE:HB	23	2.72
(2,22)	1:58:B:VAL:HA	1:89:B:ILE:HB	10	2.71
(2,21)	1:58:B:VAL:HA	1:89:B:ILE:HB	10	2.71
(2,22)	1:58:B:VAL:HA	1:89:B:ILE:HB	12	2.66
(2,21)	1:58:B:VAL:HA	1:89:B:ILE:HB	12	2.66
(2,22)	1:58:B:VAL:HA	1:89:B:ILE:HB	21	2.64
(2,21)	1:58:B:VAL:HA	1:89:B:ILE:HB	21	2.64
(2,22)	1:58:B:VAL:HA	1:89:B:ILE:HB	16	2.63
(2,21)	1:58:B:VAL:HA	1:89:B:ILE:HB	16	2.63
(2,22)	1:58:B:VAL:HA	1:89:B:ILE:HB	8	2.59
(2,22)	1:58:B:VAL:HA	1:89:B:ILE:HB	11	2.59
(2,21)	1:58:B:VAL:HA	1:89:B:ILE:HB	8	2.59
(2,21)	1:58:B:VAL:HA	1:89:B:ILE:HB	11	2.59
(2,22)	1:58:B:VAL:HA	1:89:B:ILE:HB	19	2.58
(2,21)	1:58:B:VAL:HA	1:89:B:ILE:HB	19	2.58
(2,22)	1:58:B:VAL:HA	1:89:B:ILE:HB	13	2.57
(2,21)	1:58:B:VAL:HA	1:89:B:ILE:HB	13	2.57
(2,22)	1:58:B:VAL:HA	1:89:B:ILE:HB	3	2.52
(2,21)	1:58:B:VAL:HA	1:89:B:ILE:HB	3	2.52
(2,22)	1:58:B:VAL:HA	1:89:B:ILE:HB	18	2.5
(2,21)	1:58:B:VAL:HA	1:89:B:ILE:HB	18	2.5
(2,22)	1:58:B:VAL:HA	1:89:B:ILE:HB	7	2.48
(2,21)	1:58:B:VAL:HA	1:89:B:ILE:HB	7	2.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,22)	1:58:B:VAL:HA	1:89:B:ILE:HB	20	2.47
(2,21)	1:58:B:VAL:HA	1:89:B:ILE:HB	20	2.47
(2,22)	1:58:B:VAL:HA	1:89:B:ILE:HB	15	2.45
(2,21)	1:58:B:VAL:HA	1:89:B:ILE:HB	15	2.45
(2,22)	1:58:B:VAL:HA	1:89:B:ILE:HB	9	2.42
(2,21)	1:58:B:VAL:HA	1:89:B:ILE:HB	9	2.42
(2,22)	1:58:B:VAL:HA	1:89:B:ILE:HB	2	2.41
(2,21)	1:58:B:VAL:HA	1:89:B:ILE:HB	2	2.41
(2,22)	1:58:B:VAL:HA	1:89:B:ILE:HB	24	2.38
(2,21)	1:58:B:VAL:HA	1:89:B:ILE:HB	24	2.38
(2,22)	1:58:B:VAL:HA	1:89:B:ILE:HB	5	2.16
(2,22)	1:58:B:VAL:HA	1:89:B:ILE:HB	22	2.16
(2,21)	1:58:B:VAL:HA	1:89:B:ILE:HB	5	2.16
(2,21)	1:58:B:VAL:HA	1:89:B:ILE:HB	22	2.16
(2,2856)	1:75:B:ILE:HD11	1:70:B:SER:HB3	18	1.06
(2,2856)	1:75:B:ILE:HD12	1:70:B:SER:HB3	18	1.06
(2,2856)	1:75:B:ILE:HD13	1:70:B:SER:HB3	18	1.06
(2,1424)	1:75:B:ILE:HD11	1:70:B:SER:HB3	18	1.06
(2,1424)	1:75:B:ILE:HD12	1:70:B:SER:HB3	18	1.06
(2,1424)	1:75:B:ILE:HD13	1:70:B:SER:HB3	18	1.06
(2,2845)	1:49:B:TYR:HE1	1:24:B:LYS:HD3	16	0.99
(2,2845)	1:49:B:TYR:HE2	1:24:B:LYS:HD3	16	0.99
(2,1413)	1:49:B:TYR:HE1	1:24:B:LYS:HD3	16	0.99
(2,1413)	1:49:B:TYR:HE2	1:24:B:LYS:HD3	16	0.99
(2,2856)	1:75:B:ILE:HD11	1:70:B:SER:HB3	12	0.96
(2,2856)	1:75:B:ILE:HD12	1:70:B:SER:HB3	12	0.96
(2,2856)	1:75:B:ILE:HD13	1:70:B:SER:HB3	12	0.96
(2,2856)	1:75:B:ILE:HD11	1:70:B:SER:HB3	25	0.96
(2,2856)	1:75:B:ILE:HD12	1:70:B:SER:HB3	25	0.96
(2,2856)	1:75:B:ILE:HD13	1:70:B:SER:HB3	25	0.96
(2,1424)	1:75:B:ILE:HD11	1:70:B:SER:HB3	12	0.96
(2,1424)	1:75:B:ILE:HD12	1:70:B:SER:HB3	12	0.96
(2,1424)	1:75:B:ILE:HD13	1:70:B:SER:HB3	12	0.96
(2,1424)	1:75:B:ILE:HD11	1:70:B:SER:HB3	25	0.96
(2,1424)	1:75:B:ILE:HD12	1:70:B:SER:HB3	25	0.96
(2,1424)	1:75:B:ILE:HD13	1:70:B:SER:HB3	25	0.96
(2,2856)	1:75:B:ILE:HD11	1:70:B:SER:HB3	5	0.95
(2,2856)	1:75:B:ILE:HD12	1:70:B:SER:HB3	5	0.95
(2,2856)	1:75:B:ILE:HD13	1:70:B:SER:HB3	5	0.95
(2,2856)	1:75:B:ILE:HD11	1:70:B:SER:HB3	15	0.95
(2,2856)	1:75:B:ILE:HD12	1:70:B:SER:HB3	15	0.95
(2,2856)	1:75:B:ILE:HD13	1:70:B:SER:HB3	15	0.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2856)	1:75:B:ILE:HD11	1:70:B:SER:HB3	17	0.95
(2,2856)	1:75:B:ILE:HD12	1:70:B:SER:HB3	17	0.95
(2,2856)	1:75:B:ILE:HD13	1:70:B:SER:HB3	17	0.95
(2,2856)	1:75:B:ILE:HD11	1:70:B:SER:HB3	23	0.95
(2,2856)	1:75:B:ILE:HD12	1:70:B:SER:HB3	23	0.95
(2,2856)	1:75:B:ILE:HD13	1:70:B:SER:HB3	23	0.95
(2,1424)	1:75:B:ILE:HD11	1:70:B:SER:HB3	5	0.95
(2,1424)	1:75:B:ILE:HD12	1:70:B:SER:HB3	5	0.95
(2,1424)	1:75:B:ILE:HD13	1:70:B:SER:HB3	5	0.95
(2,1424)	1:75:B:ILE:HD11	1:70:B:SER:HB3	15	0.95
(2,1424)	1:75:B:ILE:HD12	1:70:B:SER:HB3	15	0.95
(2,1424)	1:75:B:ILE:HD13	1:70:B:SER:HB3	15	0.95
(2,1424)	1:75:B:ILE:HD11	1:70:B:SER:HB3	17	0.95
(2,1424)	1:75:B:ILE:HD12	1:70:B:SER:HB3	17	0.95
(2,1424)	1:75:B:ILE:HD13	1:70:B:SER:HB3	17	0.95
(2,1424)	1:75:B:ILE:HD11	1:70:B:SER:HB3	23	0.95
(2,1424)	1:75:B:ILE:HD12	1:70:B:SER:HB3	23	0.95
(2,1424)	1:75:B:ILE:HD13	1:70:B:SER:HB3	23	0.95
(2,2856)	1:75:B:ILE:HD11	1:70:B:SER:HB3	2	0.94
(2,2856)	1:75:B:ILE:HD12	1:70:B:SER:HB3	2	0.94
(2,2856)	1:75:B:ILE:HD13	1:70:B:SER:HB3	2	0.94
(2,2856)	1:75:B:ILE:HD11	1:70:B:SER:HB3	7	0.94
(2,2856)	1:75:B:ILE:HD12	1:70:B:SER:HB3	7	0.94
(2,2856)	1:75:B:ILE:HD13	1:70:B:SER:HB3	7	0.94
(2,1424)	1:75:B:ILE:HD11	1:70:B:SER:HB3	2	0.94
(2,1424)	1:75:B:ILE:HD12	1:70:B:SER:HB3	2	0.94
(2,1424)	1:75:B:ILE:HD13	1:70:B:SER:HB3	2	0.94
(2,1424)	1:75:B:ILE:HD11	1:70:B:SER:HB3	7	0.94
(2,1424)	1:75:B:ILE:HD12	1:70:B:SER:HB3	7	0.94
(2,1424)	1:75:B:ILE:HD13	1:70:B:SER:HB3	7	0.94
(2,2856)	1:75:B:ILE:HD11	1:70:B:SER:HB3	9	0.93
(2,2856)	1:75:B:ILE:HD12	1:70:B:SER:HB3	9	0.93
(2,2856)	1:75:B:ILE:HD13	1:70:B:SER:HB3	9	0.93
(2,1424)	1:75:B:ILE:HD11	1:70:B:SER:HB3	9	0.93
(2,1424)	1:75:B:ILE:HD12	1:70:B:SER:HB3	9	0.93
(2,1424)	1:75:B:ILE:HD13	1:70:B:SER:HB3	9	0.93
(2,2856)	1:75:B:ILE:HD11	1:70:B:SER:HB3	1	0.92
(2,2856)	1:75:B:ILE:HD12	1:70:B:SER:HB3	1	0.92
(2,2856)	1:75:B:ILE:HD13	1:70:B:SER:HB3	1	0.92
(2,2856)	1:75:B:ILE:HD11	1:70:B:SER:HB3	4	0.92
(2,2856)	1:75:B:ILE:HD12	1:70:B:SER:HB3	4	0.92
(2,2856)	1:75:B:ILE:HD13	1:70:B:SER:HB3	4	0.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2856)	1:75:B:ILE:HD11	1:70:B:SER:HB3	16	0.92
(2,2856)	1:75:B:ILE:HD12	1:70:B:SER:HB3	16	0.92
(2,2856)	1:75:B:ILE:HD13	1:70:B:SER:HB3	16	0.92
(2,2856)	1:75:B:ILE:HD11	1:70:B:SER:HB3	19	0.92
(2,2856)	1:75:B:ILE:HD12	1:70:B:SER:HB3	19	0.92
(2,2856)	1:75:B:ILE:HD13	1:70:B:SER:HB3	19	0.92
(2,1424)	1:75:B:ILE:HD11	1:70:B:SER:HB3	1	0.92
(2,1424)	1:75:B:ILE:HD12	1:70:B:SER:HB3	1	0.92
(2,1424)	1:75:B:ILE:HD13	1:70:B:SER:HB3	1	0.92
(2,1424)	1:75:B:ILE:HD11	1:70:B:SER:HB3	4	0.92
(2,1424)	1:75:B:ILE:HD12	1:70:B:SER:HB3	4	0.92
(2,1424)	1:75:B:ILE:HD13	1:70:B:SER:HB3	4	0.92
(2,1424)	1:75:B:ILE:HD11	1:70:B:SER:HB3	16	0.92
(2,1424)	1:75:B:ILE:HD12	1:70:B:SER:HB3	16	0.92
(2,1424)	1:75:B:ILE:HD13	1:70:B:SER:HB3	16	0.92
(2,1424)	1:75:B:ILE:HD11	1:70:B:SER:HB3	19	0.92
(2,1424)	1:75:B:ILE:HD12	1:70:B:SER:HB3	19	0.92
(2,1424)	1:75:B:ILE:HD13	1:70:B:SER:HB3	19	0.92
(2,2856)	1:75:B:ILE:HD11	1:70:B:SER:HB3	8	0.91
(2,2856)	1:75:B:ILE:HD12	1:70:B:SER:HB3	8	0.91
(2,2856)	1:75:B:ILE:HD13	1:70:B:SER:HB3	8	0.91
(2,2856)	1:75:B:ILE:HD11	1:70:B:SER:HB3	13	0.91
(2,2856)	1:75:B:ILE:HD12	1:70:B:SER:HB3	13	0.91
(2,2856)	1:75:B:ILE:HD13	1:70:B:SER:HB3	13	0.91
(2,1424)	1:75:B:ILE:HD11	1:70:B:SER:HB3	8	0.91
(2,1424)	1:75:B:ILE:HD12	1:70:B:SER:HB3	8	0.91
(2,1424)	1:75:B:ILE:HD13	1:70:B:SER:HB3	8	0.91
(2,1424)	1:75:B:ILE:HD11	1:70:B:SER:HB3	13	0.91
(2,1424)	1:75:B:ILE:HD12	1:70:B:SER:HB3	13	0.91
(2,1424)	1:75:B:ILE:HD13	1:70:B:SER:HB3	13	0.91
(2,2856)	1:75:B:ILE:HD11	1:70:B:SER:HB3	6	0.9
(2,2856)	1:75:B:ILE:HD12	1:70:B:SER:HB3	6	0.9
(2,2856)	1:75:B:ILE:HD13	1:70:B:SER:HB3	6	0.9
(2,2856)	1:75:B:ILE:HD11	1:70:B:SER:HB3	20	0.9
(2,2856)	1:75:B:ILE:HD12	1:70:B:SER:HB3	20	0.9
(2,2856)	1:75:B:ILE:HD13	1:70:B:SER:HB3	20	0.9
(2,1424)	1:75:B:ILE:HD11	1:70:B:SER:HB3	6	0.9
(2,1424)	1:75:B:ILE:HD12	1:70:B:SER:HB3	6	0.9
(2,1424)	1:75:B:ILE:HD13	1:70:B:SER:HB3	6	0.9
(2,1424)	1:75:B:ILE:HD11	1:70:B:SER:HB3	20	0.9
(2,1424)	1:75:B:ILE:HD12	1:70:B:SER:HB3	20	0.9
(2,1424)	1:75:B:ILE:HD13	1:70:B:SER:HB3	20	0.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2856)	1:75:B:ILE:HD11	1:70:B:SER:HB3	3	0.89
(2,2856)	1:75:B:ILE:HD12	1:70:B:SER:HB3	3	0.89
(2,2856)	1:75:B:ILE:HD13	1:70:B:SER:HB3	3	0.89
(2,2856)	1:75:B:ILE:HD11	1:70:B:SER:HB3	11	0.89
(2,2856)	1:75:B:ILE:HD12	1:70:B:SER:HB3	11	0.89
(2,2856)	1:75:B:ILE:HD13	1:70:B:SER:HB3	11	0.89
(2,1424)	1:75:B:ILE:HD11	1:70:B:SER:HB3	3	0.89
(2,1424)	1:75:B:ILE:HD12	1:70:B:SER:HB3	3	0.89
(2,1424)	1:75:B:ILE:HD13	1:70:B:SER:HB3	3	0.89
(2,1424)	1:75:B:ILE:HD11	1:70:B:SER:HB3	11	0.89
(2,1424)	1:75:B:ILE:HD12	1:70:B:SER:HB3	11	0.89
(2,1424)	1:75:B:ILE:HD13	1:70:B:SER:HB3	11	0.89
(2,2856)	1:75:B:ILE:HD11	1:70:B:SER:HB3	14	0.88
(2,2856)	1:75:B:ILE:HD12	1:70:B:SER:HB3	14	0.88
(2,2856)	1:75:B:ILE:HD13	1:70:B:SER:HB3	14	0.88
(2,2856)	1:75:B:ILE:HD11	1:70:B:SER:HB3	22	0.88
(2,2856)	1:75:B:ILE:HD12	1:70:B:SER:HB3	22	0.88
(2,2856)	1:75:B:ILE:HD13	1:70:B:SER:HB3	22	0.88
(2,1424)	1:75:B:ILE:HD11	1:70:B:SER:HB3	14	0.88
(2,1424)	1:75:B:ILE:HD12	1:70:B:SER:HB3	14	0.88
(2,1424)	1:75:B:ILE:HD13	1:70:B:SER:HB3	14	0.88
(2,1424)	1:75:B:ILE:HD11	1:70:B:SER:HB3	22	0.88
(2,1424)	1:75:B:ILE:HD12	1:70:B:SER:HB3	22	0.88
(2,1424)	1:75:B:ILE:HD13	1:70:B:SER:HB3	22	0.88
(2,2856)	1:75:B:ILE:HD11	1:70:B:SER:HB3	24	0.87
(2,2856)	1:75:B:ILE:HD12	1:70:B:SER:HB3	24	0.87
(2,2856)	1:75:B:ILE:HD13	1:70:B:SER:HB3	24	0.87
(2,1424)	1:75:B:ILE:HD11	1:70:B:SER:HB3	24	0.87
(2,1424)	1:75:B:ILE:HD12	1:70:B:SER:HB3	24	0.87
(2,1424)	1:75:B:ILE:HD13	1:70:B:SER:HB3	24	0.87
(2,2856)	1:75:B:ILE:HD11	1:70:B:SER:HB3	21	0.84
(2,2856)	1:75:B:ILE:HD12	1:70:B:SER:HB3	21	0.84
(2,2856)	1:75:B:ILE:HD13	1:70:B:SER:HB3	21	0.84
(2,1424)	1:75:B:ILE:HD11	1:70:B:SER:HB3	21	0.84
(2,1424)	1:75:B:ILE:HD12	1:70:B:SER:HB3	21	0.84
(2,1424)	1:75:B:ILE:HD13	1:70:B:SER:HB3	21	0.84
(2,2856)	1:75:B:ILE:HD11	1:70:B:SER:HB3	10	0.83
(2,2856)	1:75:B:ILE:HD12	1:70:B:SER:HB3	10	0.83
(2,2856)	1:75:B:ILE:HD13	1:70:B:SER:HB3	10	0.83
(2,1424)	1:75:B:ILE:HD11	1:70:B:SER:HB3	10	0.83
(2,1424)	1:75:B:ILE:HD12	1:70:B:SER:HB3	10	0.83
(2,1424)	1:75:B:ILE:HD13	1:70:B:SER:HB3	10	0.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2845)	1:49:B:TYR:HE1	1:24:B:LYS:HD3	11	0.69
(2,2845)	1:49:B:TYR:HE2	1:24:B:LYS:HD3	11	0.69
(2,1413)	1:49:B:TYR:HE1	1:24:B:LYS:HD3	11	0.69
(2,1413)	1:49:B:TYR:HE2	1:24:B:LYS:HD3	11	0.69
(2,2845)	1:49:B:TYR:HE1	1:24:B:LYS:HD3	22	0.65
(2,2845)	1:49:B:TYR:HE2	1:24:B:LYS:HD3	22	0.65
(2,1413)	1:49:B:TYR:HE1	1:24:B:LYS:HD3	22	0.65
(2,1413)	1:49:B:TYR:HE2	1:24:B:LYS:HD3	22	0.65
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	7	0.64
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	7	0.64
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	12	0.64
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	12	0.64
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	7	0.64
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	7	0.64
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	12	0.64
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	12	0.64
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	8	0.63
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	8	0.63
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	8	0.63
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	8	0.63
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	13	0.61
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	13	0.61
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	15	0.61
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	15	0.61
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	13	0.61
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	13	0.61
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	15	0.61
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	15	0.61
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	6	0.59
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	6	0.59
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	20	0.59
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	20	0.59
(2,2721)	1:90:B:GLU:HG3	1:88:B:TYR:HE1	24	0.59
(2,2721)	1:90:B:GLU:HG3	1:88:B:TYR:HE2	24	0.59
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	6	0.59
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	6	0.59
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	20	0.59
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	20	0.59
(2,1289)	1:90:B:GLU:HG3	1:88:B:TYR:HE1	24	0.59
(2,1289)	1:90:B:GLU:HG3	1:88:B:TYR:HE2	24	0.59
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	1	0.57
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	1	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	24	0.57
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	24	0.57
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	25	0.57
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	25	0.57
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	1	0.57
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	1	0.57
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	24	0.57
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	24	0.57
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	25	0.57
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	25	0.57
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	2	0.56
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	2	0.56
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	2	0.56
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	2	0.56
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	3	0.55
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	3	0.55
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	5	0.55
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	5	0.55
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	11	0.55
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	11	0.55
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	3	0.55
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	3	0.55
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	5	0.55
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	5	0.55
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	11	0.55
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	11	0.55
(2,2793)	1:57:B:PHE:HA	1:57:B:PHE:HD1	9	0.54
(2,2793)	1:57:B:PHE:HA	1:57:B:PHE:HD2	9	0.54
(2,2793)	1:57:B:PHE:HA	1:57:B:PHE:HD1	24	0.54
(2,2793)	1:57:B:PHE:HA	1:57:B:PHE:HD2	24	0.54
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	22	0.54
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	22	0.54
(2,1361)	1:57:B:PHE:HA	1:57:B:PHE:HD1	9	0.54
(2,1361)	1:57:B:PHE:HA	1:57:B:PHE:HD2	9	0.54
(2,1361)	1:57:B:PHE:HA	1:57:B:PHE:HD1	24	0.54
(2,1361)	1:57:B:PHE:HA	1:57:B:PHE:HD2	24	0.54
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	22	0.54
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	22	0.54
(2,2793)	1:57:B:PHE:HA	1:57:B:PHE:HD1	2	0.53
(2,2793)	1:57:B:PHE:HA	1:57:B:PHE:HD2	2	0.53
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	4	0.53
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	4	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	14	0.53
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	14	0.53
(2,2721)	1:90:B:GLU:HG3	1:88:B:TYR:HE1	6	0.53
(2,2721)	1:90:B:GLU:HG3	1:88:B:TYR:HE2	6	0.53
(2,1361)	1:57:B:PHE:HA	1:57:B:PHE:HD1	2	0.53
(2,1361)	1:57:B:PHE:HA	1:57:B:PHE:HD2	2	0.53
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	4	0.53
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	4	0.53
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	14	0.53
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	14	0.53
(2,1289)	1:90:B:GLU:HG3	1:88:B:TYR:HE1	6	0.53
(2,1289)	1:90:B:GLU:HG3	1:88:B:TYR:HE2	6	0.53
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	16	0.52
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	16	0.52
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	17	0.52
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	17	0.52
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD1	14	0.52
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD2	14	0.52
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	16	0.52
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	16	0.52
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	17	0.52
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	17	0.52
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD1	14	0.52
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD2	14	0.52
(2,2793)	1:57:B:PHE:HA	1:57:B:PHE:HD1	3	0.51
(2,2793)	1:57:B:PHE:HA	1:57:B:PHE:HD2	3	0.51
(2,2793)	1:57:B:PHE:HA	1:57:B:PHE:HD1	5	0.51
(2,2793)	1:57:B:PHE:HA	1:57:B:PHE:HD2	5	0.51
(2,2793)	1:57:B:PHE:HA	1:57:B:PHE:HD1	13	0.51
(2,2793)	1:57:B:PHE:HA	1:57:B:PHE:HD2	13	0.51
(2,2793)	1:57:B:PHE:HA	1:57:B:PHE:HD1	20	0.51
(2,2793)	1:57:B:PHE:HA	1:57:B:PHE:HD2	20	0.51
(2,1361)	1:57:B:PHE:HA	1:57:B:PHE:HD1	3	0.51
(2,1361)	1:57:B:PHE:HA	1:57:B:PHE:HD2	3	0.51
(2,1361)	1:57:B:PHE:HA	1:57:B:PHE:HD1	5	0.51
(2,1361)	1:57:B:PHE:HA	1:57:B:PHE:HD2	5	0.51
(2,1361)	1:57:B:PHE:HA	1:57:B:PHE:HD1	13	0.51
(2,1361)	1:57:B:PHE:HA	1:57:B:PHE:HD2	13	0.51
(2,1361)	1:57:B:PHE:HA	1:57:B:PHE:HD1	20	0.51
(2,1361)	1:57:B:PHE:HA	1:57:B:PHE:HD2	20	0.51
(2,2793)	1:57:B:PHE:HA	1:57:B:PHE:HD1	16	0.5
(2,2793)	1:57:B:PHE:HA	1:57:B:PHE:HD2	16	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2630)	1:91:B:ILE:H	1:90:B:GLU:HB2	3	0.5
(2,2251)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	25	0.5
(2,1457)	1:85:B:LYS:H	1:84:B:ILE:HG12	20	0.5
(2,1361)	1:57:B:PHE:HA	1:57:B:PHE:HD1	16	0.5
(2,1361)	1:57:B:PHE:HA	1:57:B:PHE:HD2	16	0.5
(2,1198)	1:91:B:ILE:H	1:90:B:GLU:HB2	3	0.5
(2,819)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	25	0.5
(2,25)	1:85:B:LYS:H	1:84:B:ILE:HG12	20	0.5
(2,1655)	1:79:B:ILE:HA	1:79:B:ILE:HG13	5	0.49
(2,1655)	1:79:B:ILE:HA	1:79:B:ILE:HG13	7	0.49
(2,223)	1:79:B:ILE:HA	1:79:B:ILE:HG13	5	0.49
(2,223)	1:79:B:ILE:HA	1:79:B:ILE:HG13	7	0.49
(2,2793)	1:57:B:PHE:HA	1:57:B:PHE:HD1	17	0.48
(2,2793)	1:57:B:PHE:HA	1:57:B:PHE:HD2	17	0.48
(2,2793)	1:57:B:PHE:HA	1:57:B:PHE:HD1	19	0.48
(2,2793)	1:57:B:PHE:HA	1:57:B:PHE:HD2	19	0.48
(2,1965)	1:46:B:GLY:H	1:45:B:TYR:HD1	14	0.48
(2,1965)	1:46:B:GLY:H	1:45:B:TYR:HD2	14	0.48
(2,1361)	1:57:B:PHE:HA	1:57:B:PHE:HD1	17	0.48
(2,1361)	1:57:B:PHE:HA	1:57:B:PHE:HD2	17	0.48
(2,1361)	1:57:B:PHE:HA	1:57:B:PHE:HD1	19	0.48
(2,1361)	1:57:B:PHE:HA	1:57:B:PHE:HD2	19	0.48
(2,533)	1:46:B:GLY:H	1:45:B:TYR:HD1	14	0.48
(2,533)	1:46:B:GLY:H	1:45:B:TYR:HD2	14	0.48
(2,2793)	1:57:B:PHE:HA	1:57:B:PHE:HD1	22	0.47
(2,2793)	1:57:B:PHE:HA	1:57:B:PHE:HD2	22	0.47
(2,2251)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	14	0.47
(2,2251)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	19	0.47
(2,2213)	1:34:B:ASN:H	1:33:B:GLY:HA3	22	0.47
(2,1361)	1:57:B:PHE:HA	1:57:B:PHE:HD1	22	0.47
(2,1361)	1:57:B:PHE:HA	1:57:B:PHE:HD2	22	0.47
(2,819)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	14	0.47
(2,819)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	19	0.47
(2,781)	1:34:B:ASN:H	1:33:B:GLY:HA3	22	0.47
(2,2793)	1:57:B:PHE:HA	1:57:B:PHE:HD1	11	0.46
(2,2793)	1:57:B:PHE:HA	1:57:B:PHE:HD2	11	0.46
(2,2630)	1:91:B:ILE:H	1:90:B:GLU:HB2	9	0.46
(2,2482)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	10	0.46
(2,2482)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	25	0.46
(2,2251)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	15	0.46
(2,1655)	1:79:B:ILE:HA	1:79:B:ILE:HG13	22	0.46
(2,1361)	1:57:B:PHE:HA	1:57:B:PHE:HD1	11	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1361)	1:57:B:PHE:HA	1:57:B:PHE:HD2	11	0.46
(2,1198)	1:91:B:ILE:H	1:90:B:GLU:HB2	9	0.46
(2,1050)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	10	0.46
(2,1050)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	25	0.46
(2,819)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	15	0.46
(2,223)	1:79:B:ILE:HA	1:79:B:ILE:HG13	22	0.46
(2,2793)	1:57:B:PHE:HA	1:57:B:PHE:HD1	8	0.45
(2,2793)	1:57:B:PHE:HA	1:57:B:PHE:HD2	8	0.45
(2,2630)	1:91:B:ILE:H	1:90:B:GLU:HB2	7	0.45
(2,2482)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	5	0.45
(2,2482)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	21	0.45
(2,2459)	1:86:B:GLY:H	1:85:B:LYS:HG3	25	0.45
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD1	6	0.45
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD2	6	0.45
(2,1655)	1:79:B:ILE:HA	1:79:B:ILE:HG13	24	0.45
(2,1655)	1:79:B:ILE:HA	1:79:B:ILE:HG13	25	0.45
(2,1361)	1:57:B:PHE:HA	1:57:B:PHE:HD1	8	0.45
(2,1361)	1:57:B:PHE:HA	1:57:B:PHE:HD2	8	0.45
(2,1198)	1:91:B:ILE:H	1:90:B:GLU:HB2	7	0.45
(2,1050)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	5	0.45
(2,1050)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	21	0.45
(2,1027)	1:86:B:GLY:H	1:85:B:LYS:HG3	25	0.45
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD1	6	0.45
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD2	6	0.45
(2,223)	1:79:B:ILE:HA	1:79:B:ILE:HG13	24	0.45
(2,223)	1:79:B:ILE:HA	1:79:B:ILE:HG13	25	0.45
(2,2848)	1:49:B:TYR:HA	1:52:B:LYS:HE3	10	0.44
(2,2793)	1:57:B:PHE:HA	1:57:B:PHE:HD1	7	0.44
(2,2793)	1:57:B:PHE:HA	1:57:B:PHE:HD2	7	0.44
(2,2630)	1:91:B:ILE:H	1:90:B:GLU:HB2	10	0.44
(2,2630)	1:91:B:ILE:H	1:90:B:GLU:HB2	15	0.44
(2,2630)	1:91:B:ILE:H	1:90:B:GLU:HB2	21	0.44
(2,2482)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	1	0.44
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD1	11	0.44
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD2	11	0.44
(2,2251)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	13	0.44
(2,2251)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	22	0.44
(2,1655)	1:79:B:ILE:HA	1:79:B:ILE:HG13	13	0.44
(2,1655)	1:79:B:ILE:HA	1:79:B:ILE:HG13	20	0.44
(2,1416)	1:49:B:TYR:HA	1:52:B:LYS:HE3	10	0.44
(2,1361)	1:57:B:PHE:HA	1:57:B:PHE:HD1	7	0.44
(2,1361)	1:57:B:PHE:HA	1:57:B:PHE:HD2	7	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1198)	1:91:B:ILE:H	1:90:B:GLU:HB2	10	0.44
(2,1198)	1:91:B:ILE:H	1:90:B:GLU:HB2	15	0.44
(2,1198)	1:91:B:ILE:H	1:90:B:GLU:HB2	21	0.44
(2,1050)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	1	0.44
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD1	11	0.44
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD2	11	0.44
(2,819)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	13	0.44
(2,819)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	22	0.44
(2,223)	1:79:B:ILE:HA	1:79:B:ILE:HG13	13	0.44
(2,223)	1:79:B:ILE:HA	1:79:B:ILE:HG13	20	0.44
(2,2721)	1:90:B:GLU:HG3	1:88:B:TYR:HE1	5	0.43
(2,2721)	1:90:B:GLU:HG3	1:88:B:TYR:HE2	5	0.43
(2,2714)	1:84:B:ILE:H	1:84:B:ILE:HB	16	0.43
(2,2714)	1:84:B:ILE:H	1:84:B:ILE:HB	24	0.43
(2,2630)	1:91:B:ILE:H	1:90:B:GLU:HB2	1	0.43
(2,2630)	1:91:B:ILE:H	1:90:B:GLU:HB2	2	0.43
(2,2630)	1:91:B:ILE:H	1:90:B:GLU:HB2	4	0.43
(2,2630)	1:91:B:ILE:H	1:90:B:GLU:HB2	14	0.43
(2,2630)	1:91:B:ILE:H	1:90:B:GLU:HB2	16	0.43
(2,2630)	1:91:B:ILE:H	1:90:B:GLU:HB2	18	0.43
(2,2630)	1:91:B:ILE:H	1:90:B:GLU:HB2	20	0.43
(2,2630)	1:91:B:ILE:H	1:90:B:GLU:HB2	22	0.43
(2,2482)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	2	0.43
(2,2482)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	3	0.43
(2,2482)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	4	0.43
(2,2482)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	6	0.43
(2,2482)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	7	0.43
(2,2482)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	9	0.43
(2,2482)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	11	0.43
(2,2482)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	12	0.43
(2,2482)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	13	0.43
(2,2482)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	14	0.43
(2,2482)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	15	0.43
(2,2482)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	16	0.43
(2,2482)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	17	0.43
(2,2482)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	18	0.43
(2,2482)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	19	0.43
(2,2482)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	20	0.43
(2,2482)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	22	0.43
(2,2482)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	23	0.43
(2,2482)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	24	0.43
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD1	4	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD2	4	0.43
(2,2251)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	9	0.43
(2,1655)	1:79:B:ILE:HA	1:79:B:ILE:HG13	4	0.43
(2,1655)	1:79:B:ILE:HA	1:79:B:ILE:HG13	19	0.43
(2,1289)	1:90:B:GLU:HG3	1:88:B:TYR:HE1	5	0.43
(2,1289)	1:90:B:GLU:HG3	1:88:B:TYR:HE2	5	0.43
(2,1282)	1:84:B:ILE:H	1:84:B:ILE:HB	16	0.43
(2,1282)	1:84:B:ILE:H	1:84:B:ILE:HB	24	0.43
(2,1198)	1:91:B:ILE:H	1:90:B:GLU:HB2	1	0.43
(2,1198)	1:91:B:ILE:H	1:90:B:GLU:HB2	2	0.43
(2,1198)	1:91:B:ILE:H	1:90:B:GLU:HB2	4	0.43
(2,1198)	1:91:B:ILE:H	1:90:B:GLU:HB2	14	0.43
(2,1198)	1:91:B:ILE:H	1:90:B:GLU:HB2	16	0.43
(2,1198)	1:91:B:ILE:H	1:90:B:GLU:HB2	18	0.43
(2,1198)	1:91:B:ILE:H	1:90:B:GLU:HB2	20	0.43
(2,1198)	1:91:B:ILE:H	1:90:B:GLU:HB2	22	0.43
(2,1050)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	2	0.43
(2,1050)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	3	0.43
(2,1050)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	4	0.43
(2,1050)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	6	0.43
(2,1050)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	7	0.43
(2,1050)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	9	0.43
(2,1050)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	11	0.43
(2,1050)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	12	0.43
(2,1050)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	13	0.43
(2,1050)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	14	0.43
(2,1050)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	15	0.43
(2,1050)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	16	0.43
(2,1050)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	17	0.43
(2,1050)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	18	0.43
(2,1050)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	19	0.43
(2,1050)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	20	0.43
(2,1050)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	22	0.43
(2,1050)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	23	0.43
(2,1050)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	24	0.43
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD1	4	0.43
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD2	4	0.43
(2,819)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	9	0.43
(2,223)	1:79:B:ILE:HA	1:79:B:ILE:HG13	4	0.43
(2,223)	1:79:B:ILE:HA	1:79:B:ILE:HG13	19	0.43
(2,2793)	1:57:B:PHE:HA	1:57:B:PHE:HD1	4	0.42
(2,2793)	1:57:B:PHE:HA	1:57:B:PHE:HD2	4	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2779)	1:67:B:ASN:H	1:66:B:PHE:H	17	0.42
(2,2779)	1:67:B:ASN:H	1:66:B:PHE:H	18	0.42
(2,2779)	1:67:B:ASN:H	1:66:B:PHE:H	19	0.42
(2,2714)	1:84:B:ILE:H	1:84:B:ILE:HB	1	0.42
(2,2714)	1:84:B:ILE:H	1:84:B:ILE:HB	13	0.42
(2,2630)	1:91:B:ILE:H	1:90:B:GLU:HB2	12	0.42
(2,2482)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	8	0.42
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD1	3	0.42
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD2	3	0.42
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD1	25	0.42
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD2	25	0.42
(2,2257)	1:46:B:GLY:H	1:47:B:ILE:HD11	13	0.42
(2,2257)	1:46:B:GLY:H	1:47:B:ILE:HD12	13	0.42
(2,2257)	1:46:B:GLY:H	1:47:B:ILE:HD13	13	0.42
(2,2251)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	8	0.42
(2,1655)	1:79:B:ILE:HA	1:79:B:ILE:HG13	2	0.42
(2,1655)	1:79:B:ILE:HA	1:79:B:ILE:HG13	11	0.42
(2,1655)	1:79:B:ILE:HA	1:79:B:ILE:HG13	12	0.42
(2,1655)	1:79:B:ILE:HA	1:79:B:ILE:HG13	16	0.42
(2,1361)	1:57:B:PHE:HA	1:57:B:PHE:HD1	4	0.42
(2,1361)	1:57:B:PHE:HA	1:57:B:PHE:HD2	4	0.42
(2,1347)	1:67:B:ASN:H	1:66:B:PHE:H	17	0.42
(2,1347)	1:67:B:ASN:H	1:66:B:PHE:H	18	0.42
(2,1347)	1:67:B:ASN:H	1:66:B:PHE:H	19	0.42
(2,1282)	1:84:B:ILE:H	1:84:B:ILE:HB	1	0.42
(2,1282)	1:84:B:ILE:H	1:84:B:ILE:HB	13	0.42
(2,1198)	1:91:B:ILE:H	1:90:B:GLU:HB2	12	0.42
(2,1050)	1:74:B:ASN:HB3	1:74:B:ASN:HD22	8	0.42
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD1	3	0.42
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD2	3	0.42
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD1	25	0.42
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD2	25	0.42
(2,825)	1:46:B:GLY:H	1:47:B:ILE:HD11	13	0.42
(2,825)	1:46:B:GLY:H	1:47:B:ILE:HD12	13	0.42
(2,825)	1:46:B:GLY:H	1:47:B:ILE:HD13	13	0.42
(2,819)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	8	0.42
(2,223)	1:79:B:ILE:HA	1:79:B:ILE:HG13	2	0.42
(2,223)	1:79:B:ILE:HA	1:79:B:ILE:HG13	11	0.42
(2,223)	1:79:B:ILE:HA	1:79:B:ILE:HG13	12	0.42
(2,223)	1:79:B:ILE:HA	1:79:B:ILE:HG13	16	0.42
(2,2851)	1:46:B:GLY:HA3	1:71:B:THR:HA	23	0.41
(2,2793)	1:57:B:PHE:HA	1:57:B:PHE:HD1	21	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2793)	1:57:B:PHE:HA	1:57:B:PHE:HD2	21	0.41
(2,2779)	1:67:B:ASN:H	1:66:B:PHE:H	2	0.41
(2,2779)	1:67:B:ASN:H	1:66:B:PHE:H	7	0.41
(2,2779)	1:67:B:ASN:H	1:66:B:PHE:H	8	0.41
(2,2779)	1:67:B:ASN:H	1:66:B:PHE:H	12	0.41
(2,2779)	1:67:B:ASN:H	1:66:B:PHE:H	23	0.41
(2,2723)	1:84:B:ILE:H	1:84:B:ILE:HG12	23	0.41
(2,2714)	1:84:B:ILE:H	1:84:B:ILE:HB	4	0.41
(2,2714)	1:84:B:ILE:H	1:84:B:ILE:HB	10	0.41
(2,2714)	1:84:B:ILE:H	1:84:B:ILE:HB	22	0.41
(2,2630)	1:91:B:ILE:H	1:90:B:GLU:HB2	8	0.41
(2,2597)	1:49:B:TYR:H	1:48:B:SER:HB2	21	0.41
(2,2596)	1:3:B:GLN:H	1:3:B:GLN:HB3	4	0.41
(2,2579)	1:57:B:PHE:HB2	1:60:B:GLY:H	13	0.41
(2,2579)	1:57:B:PHE:HB2	1:60:B:GLY:H	24	0.41
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD1	8	0.41
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD2	8	0.41
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD1	16	0.41
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD2	16	0.41
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD1	17	0.41
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD2	17	0.41
(2,1965)	1:46:B:GLY:H	1:45:B:TYR:HD1	22	0.41
(2,1965)	1:46:B:GLY:H	1:45:B:TYR:HD2	22	0.41
(2,1655)	1:79:B:ILE:HA	1:79:B:ILE:HG13	6	0.41
(2,1655)	1:79:B:ILE:HA	1:79:B:ILE:HG13	9	0.41
(2,1655)	1:79:B:ILE:HA	1:79:B:ILE:HG13	10	0.41
(2,1655)	1:79:B:ILE:HA	1:79:B:ILE:HG13	15	0.41
(2,1419)	1:46:B:GLY:HA3	1:71:B:THR:HA	23	0.41
(2,1361)	1:57:B:PHE:HA	1:57:B:PHE:HD1	21	0.41
(2,1361)	1:57:B:PHE:HA	1:57:B:PHE:HD2	21	0.41
(2,1347)	1:67:B:ASN:H	1:66:B:PHE:H	2	0.41
(2,1347)	1:67:B:ASN:H	1:66:B:PHE:H	7	0.41
(2,1347)	1:67:B:ASN:H	1:66:B:PHE:H	8	0.41
(2,1347)	1:67:B:ASN:H	1:66:B:PHE:H	12	0.41
(2,1347)	1:67:B:ASN:H	1:66:B:PHE:H	23	0.41
(2,1291)	1:84:B:ILE:H	1:84:B:ILE:HG12	23	0.41
(2,1282)	1:84:B:ILE:H	1:84:B:ILE:HB	4	0.41
(2,1282)	1:84:B:ILE:H	1:84:B:ILE:HB	10	0.41
(2,1282)	1:84:B:ILE:H	1:84:B:ILE:HB	22	0.41
(2,1198)	1:91:B:ILE:H	1:90:B:GLU:HB2	8	0.41
(2,1165)	1:49:B:TYR:H	1:48:B:SER:HB2	21	0.41
(2,1164)	1:3:B:GLN:H	1:3:B:GLN:HB3	4	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1147)	1:57:B:PHE:HB2	1:60:B:GLY:H	13	0.41
(2,1147)	1:57:B:PHE:HB2	1:60:B:GLY:H	24	0.41
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD1	8	0.41
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD2	8	0.41
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD1	16	0.41
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD2	16	0.41
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD1	17	0.41
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD2	17	0.41
(2,533)	1:46:B:GLY:H	1:45:B:TYR:HD1	22	0.41
(2,533)	1:46:B:GLY:H	1:45:B:TYR:HD2	22	0.41
(2,223)	1:79:B:ILE:HA	1:79:B:ILE:HG13	6	0.41
(2,223)	1:79:B:ILE:HA	1:79:B:ILE:HG13	9	0.41
(2,223)	1:79:B:ILE:HA	1:79:B:ILE:HG13	10	0.41
(2,223)	1:79:B:ILE:HA	1:79:B:ILE:HG13	15	0.41
(2,2779)	1:67:B:ASN:H	1:66:B:PHE:H	9	0.4
(2,2779)	1:67:B:ASN:H	1:66:B:PHE:H	15	0.4
(2,2779)	1:67:B:ASN:H	1:66:B:PHE:H	20	0.4
(2,2714)	1:84:B:ILE:H	1:84:B:ILE:HB	19	0.4
(2,2579)	1:57:B:PHE:HB2	1:60:B:GLY:H	5	0.4
(2,2396)	1:21:B:ASN:HB3	1:21:B:ASN:H	14	0.4
(2,1876)	1:48:B:SER:H	1:46:B:GLY:HA2	25	0.4
(2,1655)	1:79:B:ILE:HA	1:79:B:ILE:HG13	8	0.4
(2,1655)	1:79:B:ILE:HA	1:79:B:ILE:HG13	14	0.4
(2,1347)	1:67:B:ASN:H	1:66:B:PHE:H	9	0.4
(2,1347)	1:67:B:ASN:H	1:66:B:PHE:H	15	0.4
(2,1347)	1:67:B:ASN:H	1:66:B:PHE:H	20	0.4
(2,1282)	1:84:B:ILE:H	1:84:B:ILE:HB	19	0.4
(2,1147)	1:57:B:PHE:HB2	1:60:B:GLY:H	5	0.4
(2,964)	1:21:B:ASN:HB3	1:21:B:ASN:H	14	0.4
(2,444)	1:48:B:SER:H	1:46:B:GLY:HA2	25	0.4
(2,223)	1:79:B:ILE:HA	1:79:B:ILE:HG13	8	0.4
(2,223)	1:79:B:ILE:HA	1:79:B:ILE:HG13	14	0.4
(2,2779)	1:67:B:ASN:H	1:66:B:PHE:H	6	0.39
(2,2779)	1:67:B:ASN:H	1:66:B:PHE:H	11	0.39
(2,2721)	1:90:B:GLU:HG3	1:88:B:TYR:HE1	9	0.39
(2,2721)	1:90:B:GLU:HG3	1:88:B:TYR:HE2	9	0.39
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD1	10	0.39
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD2	10	0.39
(2,2251)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	10	0.39
(2,2251)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	11	0.39
(2,1655)	1:79:B:ILE:HA	1:79:B:ILE:HG13	3	0.39
(2,1655)	1:79:B:ILE:HA	1:79:B:ILE:HG13	17	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1655)	1:79:B:ILE:HA	1:79:B:ILE:HG13	18	0.39
(2,1522)	1:78:B:ASP:H	1:77:B:ASN:HB2	23	0.39
(2,1347)	1:67:B:ASN:H	1:66:B:PHE:H	6	0.39
(2,1347)	1:67:B:ASN:H	1:66:B:PHE:H	11	0.39
(2,1289)	1:90:B:GLU:HG3	1:88:B:TYR:HE1	9	0.39
(2,1289)	1:90:B:GLU:HG3	1:88:B:TYR:HE2	9	0.39
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD1	10	0.39
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD2	10	0.39
(2,819)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	10	0.39
(2,819)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	11	0.39
(2,223)	1:79:B:ILE:HA	1:79:B:ILE:HG13	3	0.39
(2,223)	1:79:B:ILE:HA	1:79:B:ILE:HG13	17	0.39
(2,223)	1:79:B:ILE:HA	1:79:B:ILE:HG13	18	0.39
(2,90)	1:78:B:ASP:H	1:77:B:ASN:HB2	23	0.39
(2,2779)	1:67:B:ASN:H	1:66:B:PHE:H	3	0.38
(2,2779)	1:67:B:ASN:H	1:66:B:PHE:H	14	0.38
(2,2779)	1:67:B:ASN:H	1:66:B:PHE:H	22	0.38
(2,2710)	1:67:B:ASN:HB3	1:67:B:ASN:HD22	1	0.38
(2,2300)	1:54:B:TRP:H	1:54:B:TRP:HB3	15	0.38
(2,2264)	1:35:B:GLN:HG2	1:35:B:GLN:HE22	2	0.38
(2,2264)	1:35:B:GLN:HG2	1:35:B:GLN:HE22	9	0.38
(2,2251)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	2	0.38
(2,2251)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	3	0.38
(2,2251)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	5	0.38
(2,2251)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	20	0.38
(2,2053)	1:86:B:GLY:H	1:87:B:MET:HB2	17	0.38
(2,1655)	1:79:B:ILE:HA	1:79:B:ILE:HG13	1	0.38
(2,1522)	1:78:B:ASP:H	1:77:B:ASN:HB2	1	0.38
(2,1522)	1:78:B:ASP:H	1:77:B:ASN:HB2	3	0.38
(2,1522)	1:78:B:ASP:H	1:77:B:ASN:HB2	16	0.38
(2,1522)	1:78:B:ASP:H	1:77:B:ASN:HB2	21	0.38
(2,1502)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	6	0.38
(2,1502)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	8	0.38
(2,1502)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	17	0.38
(2,1347)	1:67:B:ASN:H	1:66:B:PHE:H	3	0.38
(2,1347)	1:67:B:ASN:H	1:66:B:PHE:H	14	0.38
(2,1347)	1:67:B:ASN:H	1:66:B:PHE:H	22	0.38
(2,1278)	1:67:B:ASN:HB3	1:67:B:ASN:HD22	1	0.38
(2,868)	1:54:B:TRP:H	1:54:B:TRP:HB3	15	0.38
(2,832)	1:35:B:GLN:HG2	1:35:B:GLN:HE22	2	0.38
(2,832)	1:35:B:GLN:HG2	1:35:B:GLN:HE22	9	0.38
(2,819)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	2	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,819)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	3	0.38
(2,819)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	5	0.38
(2,819)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	20	0.38
(2,621)	1:86:B:GLY:H	1:87:B:MET:HB2	17	0.38
(2,223)	1:79:B:ILE:HA	1:79:B:ILE:HG13	1	0.38
(2,90)	1:78:B:ASP:H	1:77:B:ASN:HB2	1	0.38
(2,90)	1:78:B:ASP:H	1:77:B:ASN:HB2	3	0.38
(2,90)	1:78:B:ASP:H	1:77:B:ASN:HB2	16	0.38
(2,90)	1:78:B:ASP:H	1:77:B:ASN:HB2	21	0.38
(2,70)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	6	0.38
(2,70)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	8	0.38
(2,70)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	17	0.38
(1,91)	1:58:B:VAL:H	1:62:B:LYS:O	15	0.38
(1,44)	1:58:B:VAL:H	1:62:B:LYS:O	15	0.38
(2,2845)	1:49:B:TYR:HE1	1:24:B:LYS:HD3	8	0.37
(2,2845)	1:49:B:TYR:HE2	1:24:B:LYS:HD3	8	0.37
(2,2779)	1:67:B:ASN:H	1:66:B:PHE:H	1	0.37
(2,2779)	1:67:B:ASN:H	1:66:B:PHE:H	24	0.37
(2,2710)	1:67:B:ASN:HB3	1:67:B:ASN:HD22	10	0.37
(2,2710)	1:67:B:ASN:HB3	1:67:B:ASN:HD22	17	0.37
(2,2630)	1:91:B:ILE:H	1:90:B:GLU:HB2	19	0.37
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD1	18	0.37
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD2	18	0.37
(2,2346)	1:55:B:GLY:H	1:54:B:TRP:HB2	18	0.37
(2,2300)	1:54:B:TRP:H	1:54:B:TRP:HB3	7	0.37
(2,2283)	1:21:B:ASN:HB2	1:21:B:ASN:H	19	0.37
(2,2264)	1:35:B:GLN:HG2	1:35:B:GLN:HE22	21	0.37
(2,2053)	1:86:B:GLY:H	1:87:B:MET:HB2	5	0.37
(2,1965)	1:46:B:GLY:H	1:45:B:TYR:HD1	6	0.37
(2,1965)	1:46:B:GLY:H	1:45:B:TYR:HD2	6	0.37
(2,1815)	1:84:B:ILE:HG12	1:84:B:ILE:HA	19	0.37
(2,1787)	1:50:B:GLU:H	1:50:B:GLU:HB2	20	0.37
(2,1655)	1:79:B:ILE:HA	1:79:B:ILE:HG13	21	0.37
(2,1655)	1:79:B:ILE:HA	1:79:B:ILE:HG13	23	0.37
(2,1522)	1:78:B:ASP:H	1:77:B:ASN:HB2	13	0.37
(2,1522)	1:78:B:ASP:H	1:77:B:ASN:HB2	22	0.37
(2,1501)	1:47:B:ILE:HG13	1:47:B:ILE:HA	21	0.37
(2,1465)	1:87:B:MET:HG3	1:87:B:MET:H	6	0.37
(2,1465)	1:87:B:MET:HG3	1:87:B:MET:H	15	0.37
(2,1465)	1:87:B:MET:HG3	1:87:B:MET:H	23	0.37
(2,1413)	1:49:B:TYR:HE1	1:24:B:LYS:HD3	8	0.37
(2,1413)	1:49:B:TYR:HE2	1:24:B:LYS:HD3	8	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1347)	1:67:B:ASN:H	1:66:B:PHE:H	1	0.37
(2,1347)	1:67:B:ASN:H	1:66:B:PHE:H	24	0.37
(2,1278)	1:67:B:ASN:HB3	1:67:B:ASN:HD22	10	0.37
(2,1278)	1:67:B:ASN:HB3	1:67:B:ASN:HD22	17	0.37
(2,1198)	1:91:B:ILE:H	1:90:B:GLU:HB2	19	0.37
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD1	18	0.37
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD2	18	0.37
(2,914)	1:55:B:GLY:H	1:54:B:TRP:HB2	18	0.37
(2,868)	1:54:B:TRP:H	1:54:B:TRP:HB3	7	0.37
(2,851)	1:21:B:ASN:HB2	1:21:B:ASN:H	19	0.37
(2,832)	1:35:B:GLN:HG2	1:35:B:GLN:HE22	21	0.37
(2,621)	1:86:B:GLY:H	1:87:B:MET:HB2	5	0.37
(2,533)	1:46:B:GLY:H	1:45:B:TYR:HD1	6	0.37
(2,533)	1:46:B:GLY:H	1:45:B:TYR:HD2	6	0.37
(2,383)	1:84:B:ILE:HG12	1:84:B:ILE:HA	19	0.37
(2,355)	1:50:B:GLU:H	1:50:B:GLU:HB2	20	0.37
(2,223)	1:79:B:ILE:HA	1:79:B:ILE:HG13	21	0.37
(2,223)	1:79:B:ILE:HA	1:79:B:ILE:HG13	23	0.37
(2,90)	1:78:B:ASP:H	1:77:B:ASN:HB2	13	0.37
(2,90)	1:78:B:ASP:H	1:77:B:ASN:HB2	22	0.37
(2,69)	1:47:B:ILE:HG13	1:47:B:ILE:HA	21	0.37
(2,33)	1:87:B:MET:HG3	1:87:B:MET:H	6	0.37
(2,33)	1:87:B:MET:HG3	1:87:B:MET:H	15	0.37
(2,33)	1:87:B:MET:HG3	1:87:B:MET:H	23	0.37
(2,2884)	1:26:B:LYS:HG2	1:26:B:LYS:H	24	0.36
(2,2779)	1:67:B:ASN:H	1:66:B:PHE:H	10	0.36
(2,2710)	1:67:B:ASN:HB3	1:67:B:ASN:HD22	7	0.36
(2,2710)	1:67:B:ASN:HB3	1:67:B:ASN:HD22	14	0.36
(2,2679)	1:68:B:GLU:H	1:52:B:LYS:HG3	25	0.36
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD1	2	0.36
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD2	2	0.36
(2,2251)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	4	0.36
(2,2251)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	24	0.36
(2,1981)	1:58:B:VAL:H	1:61:B:GLU:HB2	13	0.36
(2,1832)	1:10:B:MET:HA	1:10:B:MET:HB2	24	0.36
(2,1815)	1:84:B:ILE:HG12	1:84:B:ILE:HA	1	0.36
(2,1522)	1:78:B:ASP:H	1:77:B:ASN:HB2	11	0.36
(2,1522)	1:78:B:ASP:H	1:77:B:ASN:HB2	14	0.36
(2,1502)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	20	0.36
(2,1465)	1:87:B:MET:HG3	1:87:B:MET:H	8	0.36
(2,1453)	1:26:B:LYS:HG2	1:26:B:LYS:H	24	0.36
(2,1347)	1:67:B:ASN:H	1:66:B:PHE:H	10	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1278)	1:67:B:ASN:HB3	1:67:B:ASN:HD22	7	0.36
(2,1278)	1:67:B:ASN:HB3	1:67:B:ASN:HD22	14	0.36
(2,1247)	1:68:B:GLU:H	1:52:B:LYS:HG3	25	0.36
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD1	2	0.36
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD2	2	0.36
(2,819)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	4	0.36
(2,819)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	24	0.36
(2,549)	1:58:B:VAL:H	1:61:B:GLU:HB2	13	0.36
(2,400)	1:10:B:MET:HA	1:10:B:MET:HB2	24	0.36
(2,383)	1:84:B:ILE:HG12	1:84:B:ILE:HA	1	0.36
(2,90)	1:78:B:ASP:H	1:77:B:ASN:HB2	11	0.36
(2,90)	1:78:B:ASP:H	1:77:B:ASN:HB2	14	0.36
(2,70)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	20	0.36
(2,33)	1:87:B:MET:HG3	1:87:B:MET:H	8	0.36
(2,2848)	1:49:B:TYR:HA	1:52:B:LYS:HE3	13	0.35
(2,2841)	1:45:B:TYR:HB2	1:24:B:LYS:HB2	21	0.35
(2,2793)	1:57:B:PHE:HA	1:57:B:PHE:HD1	10	0.35
(2,2793)	1:57:B:PHE:HA	1:57:B:PHE:HD2	10	0.35
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	23	0.35
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	23	0.35
(2,2710)	1:67:B:ASN:HB3	1:67:B:ASN:HD22	8	0.35
(2,2710)	1:67:B:ASN:HB3	1:67:B:ASN:HD22	13	0.35
(2,2459)	1:86:B:GLY:H	1:85:B:LYS:HG3	18	0.35
(2,2346)	1:55:B:GLY:H	1:54:B:TRP:HB2	19	0.35
(2,2280)	1:66:B:PHE:H	1:66:B:PHE:HD1	5	0.35
(2,2280)	1:66:B:PHE:H	1:66:B:PHE:HD2	5	0.35
(2,2280)	1:66:B:PHE:H	1:66:B:PHE:HD1	7	0.35
(2,2280)	1:66:B:PHE:H	1:66:B:PHE:HD2	7	0.35
(2,2251)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	17	0.35
(2,2251)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	23	0.35
(2,2093)	1:13:B:ILE:HA	1:13:B:ILE:HG13	5	0.35
(2,2093)	1:13:B:ILE:HA	1:13:B:ILE:HG13	21	0.35
(2,2053)	1:86:B:GLY:H	1:87:B:MET:HB2	1	0.35
(2,1967)	1:92:B:LYS:HG3	1:92:B:LYS:HE3	11	0.35
(2,1967)	1:92:B:LYS:HG3	1:92:B:LYS:HE3	18	0.35
(2,1860)	1:13:B:ILE:HB	1:13:B:ILE:H	18	0.35
(2,1815)	1:84:B:ILE:HG12	1:84:B:ILE:HA	22	0.35
(2,1815)	1:84:B:ILE:HG12	1:84:B:ILE:HA	24	0.35
(2,1566)	1:85:B:LYS:HA	1:85:B:LYS:HG2	8	0.35
(2,1502)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	21	0.35
(2,1465)	1:87:B:MET:HG3	1:87:B:MET:H	2	0.35
(2,1465)	1:87:B:MET:HG3	1:87:B:MET:H	14	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1465)	1:87:B:MET:HG3	1:87:B:MET:H	17	0.35
(2,1416)	1:49:B:TYR:HA	1:52:B:LYS:HE3	13	0.35
(2,1409)	1:45:B:TYR:HB2	1:24:B:LYS:HB2	21	0.35
(2,1361)	1:57:B:PHE:HA	1:57:B:PHE:HD1	10	0.35
(2,1361)	1:57:B:PHE:HA	1:57:B:PHE:HD2	10	0.35
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	23	0.35
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	23	0.35
(2,1278)	1:67:B:ASN:HB3	1:67:B:ASN:HD22	8	0.35
(2,1278)	1:67:B:ASN:HB3	1:67:B:ASN:HD22	13	0.35
(2,1027)	1:86:B:GLY:H	1:85:B:LYS:HG3	18	0.35
(2,914)	1:55:B:GLY:H	1:54:B:TRP:HB2	19	0.35
(2,848)	1:66:B:PHE:H	1:66:B:PHE:HD1	5	0.35
(2,848)	1:66:B:PHE:H	1:66:B:PHE:HD2	5	0.35
(2,848)	1:66:B:PHE:H	1:66:B:PHE:HD1	7	0.35
(2,848)	1:66:B:PHE:H	1:66:B:PHE:HD2	7	0.35
(2,819)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	17	0.35
(2,819)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	23	0.35
(2,661)	1:13:B:ILE:HA	1:13:B:ILE:HG13	5	0.35
(2,661)	1:13:B:ILE:HA	1:13:B:ILE:HG13	21	0.35
(2,621)	1:86:B:GLY:H	1:87:B:MET:HB2	1	0.35
(2,535)	1:92:B:LYS:HG3	1:92:B:LYS:HE3	11	0.35
(2,535)	1:92:B:LYS:HG3	1:92:B:LYS:HE3	18	0.35
(2,428)	1:13:B:ILE:HB	1:13:B:ILE:H	18	0.35
(2,383)	1:84:B:ILE:HG12	1:84:B:ILE:HA	22	0.35
(2,383)	1:84:B:ILE:HG12	1:84:B:ILE:HA	24	0.35
(2,134)	1:85:B:LYS:HA	1:85:B:LYS:HG2	8	0.35
(2,70)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	21	0.35
(2,33)	1:87:B:MET:HG3	1:87:B:MET:H	2	0.35
(2,33)	1:87:B:MET:HG3	1:87:B:MET:H	14	0.35
(2,33)	1:87:B:MET:HG3	1:87:B:MET:H	17	0.35
(1,91)	1:58:B:VAL:H	1:62:B:LYS:O	2	0.35
(1,44)	1:58:B:VAL:H	1:62:B:LYS:O	2	0.35
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	19	0.34
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	19	0.34
(2,2779)	1:67:B:ASN:H	1:66:B:PHE:H	5	0.34
(2,2779)	1:67:B:ASN:H	1:66:B:PHE:H	21	0.34
(2,2710)	1:67:B:ASN:HB3	1:67:B:ASN:HD22	24	0.34
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD1	13	0.34
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD2	13	0.34
(2,2280)	1:66:B:PHE:H	1:66:B:PHE:HD1	15	0.34
(2,2280)	1:66:B:PHE:H	1:66:B:PHE:HD2	15	0.34
(2,2251)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	6	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2251)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	7	0.34
(2,2251)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	21	0.34
(2,2156)	1:38:B:ALA:H	1:37:B:LYS:HB2	7	0.34
(2,2093)	1:13:B:ILE:HA	1:13:B:ILE:HG13	3	0.34
(2,2093)	1:13:B:ILE:HA	1:13:B:ILE:HG13	24	0.34
(2,1981)	1:58:B:VAL:H	1:61:B:GLU:HB2	5	0.34
(2,1967)	1:92:B:LYS:HG3	1:92:B:LYS:HE3	25	0.34
(2,1876)	1:48:B:SER:H	1:46:B:GLY:HA2	10	0.34
(2,1815)	1:84:B:ILE:HG12	1:84:B:ILE:HA	4	0.34
(2,1815)	1:84:B:ILE:HG12	1:84:B:ILE:HA	10	0.34
(2,1815)	1:84:B:ILE:HG12	1:84:B:ILE:HA	13	0.34
(2,1815)	1:84:B:ILE:HG12	1:84:B:ILE:HA	16	0.34
(2,1502)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	23	0.34
(2,1465)	1:87:B:MET:HG3	1:87:B:MET:H	3	0.34
(2,1465)	1:87:B:MET:HG3	1:87:B:MET:H	10	0.34
(2,1465)	1:87:B:MET:HG3	1:87:B:MET:H	18	0.34
(2,1465)	1:87:B:MET:HG3	1:87:B:MET:H	22	0.34
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	19	0.34
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	19	0.34
(2,1347)	1:67:B:ASN:H	1:66:B:PHE:H	5	0.34
(2,1347)	1:67:B:ASN:H	1:66:B:PHE:H	21	0.34
(2,1278)	1:67:B:ASN:HB3	1:67:B:ASN:HD22	24	0.34
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD1	13	0.34
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD2	13	0.34
(2,848)	1:66:B:PHE:H	1:66:B:PHE:HD1	15	0.34
(2,848)	1:66:B:PHE:H	1:66:B:PHE:HD2	15	0.34
(2,819)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	6	0.34
(2,819)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	7	0.34
(2,819)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	21	0.34
(2,724)	1:38:B:ALA:H	1:37:B:LYS:HB2	7	0.34
(2,661)	1:13:B:ILE:HA	1:13:B:ILE:HG13	3	0.34
(2,661)	1:13:B:ILE:HA	1:13:B:ILE:HG13	24	0.34
(2,549)	1:58:B:VAL:H	1:61:B:GLU:HB2	5	0.34
(2,535)	1:92:B:LYS:HG3	1:92:B:LYS:HE3	25	0.34
(2,444)	1:48:B:SER:H	1:46:B:GLY:HA2	10	0.34
(2,383)	1:84:B:ILE:HG12	1:84:B:ILE:HA	4	0.34
(2,383)	1:84:B:ILE:HG12	1:84:B:ILE:HA	10	0.34
(2,383)	1:84:B:ILE:HG12	1:84:B:ILE:HA	13	0.34
(2,383)	1:84:B:ILE:HG12	1:84:B:ILE:HA	16	0.34
(2,70)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	23	0.34
(2,33)	1:87:B:MET:HG3	1:87:B:MET:H	3	0.34
(2,33)	1:87:B:MET:HG3	1:87:B:MET:H	10	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,33)	1:87:B:MET:HG3	1:87:B:MET:H	18	0.34
(2,33)	1:87:B:MET:HG3	1:87:B:MET:H	22	0.34
(1,91)	1:58:B:VAL:H	1:62:B:LYS:O	14	0.34
(1,44)	1:58:B:VAL:H	1:62:B:LYS:O	14	0.34
(2,2800)	1:48:B:SER:H	1:47:B:ILE:HG12	11	0.33
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	9	0.33
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	9	0.33
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	18	0.33
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	18	0.33
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	21	0.33
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	21	0.33
(2,2595)	1:27:B:LEU:H	1:27:B:LEU:HB2	11	0.33
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD1	9	0.33
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD2	9	0.33
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD1	12	0.33
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD2	12	0.33
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD1	20	0.33
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD2	20	0.33
(2,2346)	1:55:B:GLY:H	1:54:B:TRP:HB2	9	0.33
(2,2280)	1:66:B:PHE:H	1:66:B:PHE:HD1	8	0.33
(2,2280)	1:66:B:PHE:H	1:66:B:PHE:HD2	8	0.33
(2,2280)	1:66:B:PHE:H	1:66:B:PHE:HD1	17	0.33
(2,2280)	1:66:B:PHE:H	1:66:B:PHE:HD2	17	0.33
(2,2251)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	12	0.33
(2,2152)	1:40:B:SER:HB3	1:27:B:LEU:HB3	13	0.33
(2,2053)	1:86:B:GLY:H	1:87:B:MET:HB2	3	0.33
(2,1981)	1:58:B:VAL:H	1:61:B:GLU:HB2	24	0.33
(2,1860)	1:13:B:ILE:HB	1:13:B:ILE:H	4	0.33
(2,1860)	1:13:B:ILE:HB	1:13:B:ILE:H	9	0.33
(2,1704)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	5	0.33
(2,1704)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	17	0.33
(2,1704)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	18	0.33
(2,1704)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	19	0.33
(2,1704)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	25	0.33
(2,1561)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	18	0.33
(2,1501)	1:47:B:ILE:HG13	1:47:B:ILE:HA	25	0.33
(2,1465)	1:87:B:MET:HG3	1:87:B:MET:H	1	0.33
(2,1465)	1:87:B:MET:HG3	1:87:B:MET:H	19	0.33
(2,1465)	1:87:B:MET:HG3	1:87:B:MET:H	20	0.33
(2,1368)	1:48:B:SER:H	1:47:B:ILE:HG12	11	0.33
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	9	0.33
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	9	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	18	0.33
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	18	0.33
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	21	0.33
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	21	0.33
(2,1163)	1:27:B:LEU:H	1:27:B:LEU:HB2	11	0.33
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD1	9	0.33
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD2	9	0.33
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD1	12	0.33
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD2	12	0.33
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD1	20	0.33
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD2	20	0.33
(2,914)	1:55:B:GLY:H	1:54:B:TRP:HB2	9	0.33
(2,848)	1:66:B:PHE:H	1:66:B:PHE:HD1	8	0.33
(2,848)	1:66:B:PHE:H	1:66:B:PHE:HD2	8	0.33
(2,848)	1:66:B:PHE:H	1:66:B:PHE:HD1	17	0.33
(2,848)	1:66:B:PHE:H	1:66:B:PHE:HD2	17	0.33
(2,819)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	12	0.33
(2,720)	1:40:B:SER:HB3	1:27:B:LEU:HB3	13	0.33
(2,621)	1:86:B:GLY:H	1:87:B:MET:HB2	3	0.33
(2,549)	1:58:B:VAL:H	1:61:B:GLU:HB2	24	0.33
(2,428)	1:13:B:ILE:HB	1:13:B:ILE:H	4	0.33
(2,428)	1:13:B:ILE:HB	1:13:B:ILE:H	9	0.33
(2,272)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	5	0.33
(2,272)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	17	0.33
(2,272)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	18	0.33
(2,272)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	19	0.33
(2,272)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	25	0.33
(2,129)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	18	0.33
(2,69)	1:47:B:ILE:HG13	1:47:B:ILE:HA	25	0.33
(2,33)	1:87:B:MET:HG3	1:87:B:MET:H	1	0.33
(2,33)	1:87:B:MET:HG3	1:87:B:MET:H	19	0.33
(2,33)	1:87:B:MET:HG3	1:87:B:MET:H	20	0.33
(2,2820)	1:87:B:MET:HG2	1:87:B:MET:H	3	0.32
(2,2816)	1:77:B:ASN:HB3	1:76:B:SER:H	25	0.32
(2,2797)	1:25:B:GLY:H	1:24:B:LYS:H	16	0.32
(2,2793)	1:57:B:PHE:HA	1:57:B:PHE:HD1	25	0.32
(2,2793)	1:57:B:PHE:HA	1:57:B:PHE:HD2	25	0.32
(2,2791)	1:12:B:SER:H	1:13:B:ILE:HA	23	0.32
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	10	0.32
(2,2788)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	10	0.32
(2,2787)	1:48:B:SER:H	1:47:B:ILE:HG13	5	0.32
(2,2597)	1:49:B:TYR:H	1:48:B:SER:HB2	10	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2597)	1:49:B:TYR:H	1:48:B:SER:HB2	14	0.32
(2,2579)	1:57:B:PHE:HB2	1:60:B:GLY:H	2	0.32
(2,2459)	1:86:B:GLY:H	1:85:B:LYS:HG3	7	0.32
(2,2281)	1:24:B:LYS:H	1:23:B:GLY:H	10	0.32
(2,2280)	1:66:B:PHE:H	1:66:B:PHE:HD1	2	0.32
(2,2280)	1:66:B:PHE:H	1:66:B:PHE:HD2	2	0.32
(2,2280)	1:66:B:PHE:H	1:66:B:PHE:HD1	3	0.32
(2,2280)	1:66:B:PHE:H	1:66:B:PHE:HD2	3	0.32
(2,2280)	1:66:B:PHE:H	1:66:B:PHE:HD1	12	0.32
(2,2280)	1:66:B:PHE:H	1:66:B:PHE:HD2	12	0.32
(2,2280)	1:66:B:PHE:H	1:66:B:PHE:HD1	14	0.32
(2,2280)	1:66:B:PHE:H	1:66:B:PHE:HD2	14	0.32
(2,2279)	1:58:B:VAL:H	1:61:B:GLU:HB3	23	0.32
(2,2251)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	1	0.32
(2,2251)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	16	0.32
(2,2156)	1:38:B:ALA:H	1:37:B:LYS:HB2	18	0.32
(2,2154)	1:89:B:ILE:HG12	1:88:B:TYR:H	22	0.32
(2,2152)	1:40:B:SER:HB3	1:27:B:LEU:HB3	24	0.32
(2,2094)	1:82:B:LEU:HA	1:82:B:LEU:HG	23	0.32
(2,2093)	1:13:B:ILE:HA	1:13:B:ILE:HG13	1	0.32
(2,2053)	1:86:B:GLY:H	1:87:B:MET:HB2	23	0.32
(2,1985)	1:20:B:LEU:HA	1:20:B:LEU:HG	8	0.32
(2,1981)	1:58:B:VAL:H	1:61:B:GLU:HB2	12	0.32
(2,1876)	1:48:B:SER:H	1:46:B:GLY:HA2	24	0.32
(2,1842)	1:89:B:ILE:H	1:88:B:TYR:HD1	23	0.32
(2,1842)	1:89:B:ILE:H	1:88:B:TYR:HD2	23	0.32
(2,1786)	1:56:B:ILE:HB	1:66:B:PHE:HZ	2	0.32
(2,1786)	1:56:B:ILE:HB	1:66:B:PHE:HZ	13	0.32
(2,1704)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	9	0.32
(2,1704)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	10	0.32
(2,1704)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	12	0.32
(2,1704)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	15	0.32
(2,1566)	1:85:B:LYS:HA	1:85:B:LYS:HG2	3	0.32
(2,1502)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	3	0.32
(2,1502)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	10	0.32
(2,1502)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	22	0.32
(2,1465)	1:87:B:MET:HG3	1:87:B:MET:H	9	0.32
(2,1465)	1:87:B:MET:HG3	1:87:B:MET:H	25	0.32
(2,1388)	1:87:B:MET:HG2	1:87:B:MET:H	3	0.32
(2,1384)	1:77:B:ASN:HB3	1:76:B:SER:H	25	0.32
(2,1365)	1:25:B:GLY:H	1:24:B:LYS:H	16	0.32
(2,1361)	1:57:B:PHE:HA	1:57:B:PHE:HD1	25	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1361)	1:57:B:PHE:HA	1:57:B:PHE:HD2	25	0.32
(2,1359)	1:12:B:SER:H	1:13:B:ILE:HA	23	0.32
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD1	10	0.32
(2,1356)	1:66:B:PHE:HB2	1:66:B:PHE:HD2	10	0.32
(2,1355)	1:48:B:SER:H	1:47:B:ILE:HG13	5	0.32
(2,1165)	1:49:B:TYR:H	1:48:B:SER:HB2	10	0.32
(2,1165)	1:49:B:TYR:H	1:48:B:SER:HB2	14	0.32
(2,1147)	1:57:B:PHE:HB2	1:60:B:GLY:H	2	0.32
(2,1027)	1:86:B:GLY:H	1:85:B:LYS:HG3	7	0.32
(2,849)	1:24:B:LYS:H	1:23:B:GLY:H	10	0.32
(2,848)	1:66:B:PHE:H	1:66:B:PHE:HD1	2	0.32
(2,848)	1:66:B:PHE:H	1:66:B:PHE:HD2	2	0.32
(2,848)	1:66:B:PHE:H	1:66:B:PHE:HD1	3	0.32
(2,848)	1:66:B:PHE:H	1:66:B:PHE:HD2	3	0.32
(2,848)	1:66:B:PHE:H	1:66:B:PHE:HD1	12	0.32
(2,848)	1:66:B:PHE:H	1:66:B:PHE:HD2	12	0.32
(2,848)	1:66:B:PHE:H	1:66:B:PHE:HD1	14	0.32
(2,848)	1:66:B:PHE:H	1:66:B:PHE:HD2	14	0.32
(2,847)	1:58:B:VAL:H	1:61:B:GLU:HB3	23	0.32
(2,819)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	1	0.32
(2,819)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	16	0.32
(2,724)	1:38:B:ALA:H	1:37:B:LYS:HB2	18	0.32
(2,722)	1:89:B:ILE:HG12	1:88:B:TYR:H	22	0.32
(2,720)	1:40:B:SER:HB3	1:27:B:LEU:HB3	24	0.32
(2,662)	1:82:B:LEU:HA	1:82:B:LEU:HG	23	0.32
(2,661)	1:13:B:ILE:HA	1:13:B:ILE:HG13	1	0.32
(2,621)	1:86:B:GLY:H	1:87:B:MET:HB2	23	0.32
(2,553)	1:20:B:LEU:HA	1:20:B:LEU:HG	8	0.32
(2,549)	1:58:B:VAL:H	1:61:B:GLU:HB2	12	0.32
(2,444)	1:48:B:SER:H	1:46:B:GLY:HA2	24	0.32
(2,410)	1:89:B:ILE:H	1:88:B:TYR:HD1	23	0.32
(2,410)	1:89:B:ILE:H	1:88:B:TYR:HD2	23	0.32
(2,354)	1:56:B:ILE:HB	1:66:B:PHE:HZ	2	0.32
(2,354)	1:56:B:ILE:HB	1:66:B:PHE:HZ	13	0.32
(2,272)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	9	0.32
(2,272)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	10	0.32
(2,272)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	12	0.32
(2,272)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	15	0.32
(2,134)	1:85:B:LYS:HA	1:85:B:LYS:HG2	3	0.32
(2,70)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	3	0.32
(2,70)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	10	0.32
(2,70)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	22	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,33)	1:87:B:MET:HG3	1:87:B:MET:H	9	0.32
(2,33)	1:87:B:MET:HG3	1:87:B:MET:H	25	0.32
(1,91)	1:58:B:VAL:H	1:62:B:LYS:O	18	0.32
(1,91)	1:58:B:VAL:H	1:62:B:LYS:O	21	0.32
(1,44)	1:58:B:VAL:H	1:62:B:LYS:O	18	0.32
(1,44)	1:58:B:VAL:H	1:62:B:LYS:O	21	0.32
(2,2816)	1:77:B:ASN:HB3	1:76:B:SER:H	10	0.31
(2,2797)	1:25:B:GLY:H	1:24:B:LYS:H	3	0.31
(2,2790)	1:8:B:GLU:H	1:8:B:GLU:HA	8	0.31
(2,2723)	1:84:B:ILE:H	1:84:B:ILE:HG12	9	0.31
(2,2628)	1:84:B:ILE:H	1:82:B:LEU:HB2	23	0.31
(2,2595)	1:27:B:LEU:H	1:27:B:LEU:HB2	15	0.31
(2,2459)	1:86:B:GLY:H	1:85:B:LYS:HG3	2	0.31
(2,2284)	1:66:B:PHE:H	1:64:B:TYR:HB3	1	0.31
(2,2156)	1:38:B:ALA:H	1:37:B:LYS:HB2	21	0.31
(2,1965)	1:46:B:GLY:H	1:45:B:TYR:HD1	20	0.31
(2,1965)	1:46:B:GLY:H	1:45:B:TYR:HD2	20	0.31
(2,1965)	1:46:B:GLY:H	1:45:B:TYR:HD1	24	0.31
(2,1965)	1:46:B:GLY:H	1:45:B:TYR:HD2	24	0.31
(2,1901)	1:57:B:PHE:HZ	1:56:B:ILE:HA	14	0.31
(2,1832)	1:10:B:MET:HA	1:10:B:MET:HB2	5	0.31
(2,1815)	1:84:B:ILE:HG12	1:84:B:ILE:HA	6	0.31
(2,1704)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	2	0.31
(2,1704)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	4	0.31
(2,1704)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	6	0.31
(2,1704)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	7	0.31
(2,1704)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	8	0.31
(2,1502)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	7	0.31
(2,1384)	1:77:B:ASN:HB3	1:76:B:SER:H	10	0.31
(2,1365)	1:25:B:GLY:H	1:24:B:LYS:H	3	0.31
(2,1358)	1:8:B:GLU:H	1:8:B:GLU:HA	8	0.31
(2,1291)	1:84:B:ILE:H	1:84:B:ILE:HG12	9	0.31
(2,1196)	1:84:B:ILE:H	1:82:B:LEU:HB2	23	0.31
(2,1163)	1:27:B:LEU:H	1:27:B:LEU:HB2	15	0.31
(2,1027)	1:86:B:GLY:H	1:85:B:LYS:HG3	2	0.31
(2,852)	1:66:B:PHE:H	1:64:B:TYR:HB3	1	0.31
(2,724)	1:38:B:ALA:H	1:37:B:LYS:HB2	21	0.31
(2,533)	1:46:B:GLY:H	1:45:B:TYR:HD1	20	0.31
(2,533)	1:46:B:GLY:H	1:45:B:TYR:HD2	20	0.31
(2,533)	1:46:B:GLY:H	1:45:B:TYR:HD1	24	0.31
(2,533)	1:46:B:GLY:H	1:45:B:TYR:HD2	24	0.31
(2,469)	1:57:B:PHE:HZ	1:56:B:ILE:HA	14	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,400)	1:10:B:MET:HA	1:10:B:MET:HB2	5	0.31
(2,383)	1:84:B:ILE:HG12	1:84:B:ILE:HA	6	0.31
(2,272)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	2	0.31
(2,272)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	4	0.31
(2,272)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	6	0.31
(2,272)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	7	0.31
(2,272)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	8	0.31
(2,70)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	7	0.31
(1,91)	1:58:B:VAL:H	1:62:B:LYS:O	1	0.31
(1,44)	1:58:B:VAL:H	1:62:B:LYS:O	1	0.31
(2,2820)	1:87:B:MET:HG2	1:87:B:MET:H	8	0.3
(2,2797)	1:25:B:GLY:H	1:24:B:LYS:H	6	0.3
(2,2791)	1:12:B:SER:H	1:13:B:ILE:HA	13	0.3
(2,2790)	1:8:B:GLU:H	1:8:B:GLU:HA	3	0.3
(2,2779)	1:67:B:ASN:H	1:66:B:PHE:H	16	0.3
(2,2579)	1:57:B:PHE:HB2	1:60:B:GLY:H	16	0.3
(2,2579)	1:57:B:PHE:HB2	1:60:B:GLY:H	19	0.3
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD1	7	0.3
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD2	7	0.3
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD1	15	0.3
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD2	15	0.3
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD1	22	0.3
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD2	22	0.3
(2,2346)	1:55:B:GLY:H	1:54:B:TRP:HB2	17	0.3
(2,2306)	1:68:B:GLU:HG3	1:68:B:GLU:H	10	0.3
(2,2264)	1:35:B:GLN:HG2	1:35:B:GLN:HE22	14	0.3
(2,2251)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	18	0.3
(2,2156)	1:38:B:ALA:H	1:37:B:LYS:HB2	5	0.3
(2,2156)	1:38:B:ALA:H	1:37:B:LYS:HB2	24	0.3
(2,2093)	1:13:B:ILE:HA	1:13:B:ILE:HG13	7	0.3
(2,2053)	1:86:B:GLY:H	1:87:B:MET:HB2	16	0.3
(2,1965)	1:46:B:GLY:H	1:45:B:TYR:HD1	3	0.3
(2,1965)	1:46:B:GLY:H	1:45:B:TYR:HD2	3	0.3
(2,1866)	1:13:B:ILE:H	1:13:B:ILE:HD11	1	0.3
(2,1866)	1:13:B:ILE:H	1:13:B:ILE:HD12	1	0.3
(2,1866)	1:13:B:ILE:H	1:13:B:ILE:HD13	1	0.3
(2,1723)	1:67:B:ASN:H	1:67:B:ASN:HD22	7	0.3
(2,1704)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	20	0.3
(2,1704)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	24	0.3
(2,1561)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	4	0.3
(2,1561)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	21	0.3
(2,1561)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	25	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1502)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	12	0.3
(2,1388)	1:87:B:MET:HG2	1:87:B:MET:H	8	0.3
(2,1365)	1:25:B:GLY:H	1:24:B:LYS:H	6	0.3
(2,1359)	1:12:B:SER:H	1:13:B:ILE:HA	13	0.3
(2,1358)	1:8:B:GLU:H	1:8:B:GLU:HA	3	0.3
(2,1347)	1:67:B:ASN:H	1:66:B:PHE:H	16	0.3
(2,1147)	1:57:B:PHE:HB2	1:60:B:GLY:H	16	0.3
(2,1147)	1:57:B:PHE:HB2	1:60:B:GLY:H	19	0.3
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD1	7	0.3
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD2	7	0.3
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD1	15	0.3
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD2	15	0.3
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD1	22	0.3
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD2	22	0.3
(2,914)	1:55:B:GLY:H	1:54:B:TRP:HB2	17	0.3
(2,874)	1:68:B:GLU:HG3	1:68:B:GLU:H	10	0.3
(2,832)	1:35:B:GLN:HG2	1:35:B:GLN:HE22	14	0.3
(2,819)	1:14:B:ASN:HB3	1:14:B:ASN:HD22	18	0.3
(2,724)	1:38:B:ALA:H	1:37:B:LYS:HB2	5	0.3
(2,724)	1:38:B:ALA:H	1:37:B:LYS:HB2	24	0.3
(2,661)	1:13:B:ILE:HA	1:13:B:ILE:HG13	7	0.3
(2,621)	1:86:B:GLY:H	1:87:B:MET:HB2	16	0.3
(2,533)	1:46:B:GLY:H	1:45:B:TYR:HD1	3	0.3
(2,533)	1:46:B:GLY:H	1:45:B:TYR:HD2	3	0.3
(2,434)	1:13:B:ILE:H	1:13:B:ILE:HD11	1	0.3
(2,434)	1:13:B:ILE:H	1:13:B:ILE:HD12	1	0.3
(2,434)	1:13:B:ILE:H	1:13:B:ILE:HD13	1	0.3
(2,291)	1:67:B:ASN:H	1:67:B:ASN:HD22	7	0.3
(2,272)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	20	0.3
(2,272)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	24	0.3
(2,129)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	4	0.3
(2,129)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	21	0.3
(2,129)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	25	0.3
(2,70)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	12	0.3
(1,91)	1:58:B:VAL:H	1:62:B:LYS:O	20	0.3
(1,91)	1:58:B:VAL:H	1:62:B:LYS:O	23	0.3
(1,44)	1:58:B:VAL:H	1:62:B:LYS:O	20	0.3
(1,44)	1:58:B:VAL:H	1:62:B:LYS:O	23	0.3
(2,2816)	1:77:B:ASN:HB3	1:76:B:SER:H	19	0.29
(2,2791)	1:12:B:SER:H	1:13:B:ILE:HA	6	0.29
(2,2791)	1:12:B:SER:H	1:13:B:ILE:HA	17	0.29
(2,2791)	1:12:B:SER:H	1:13:B:ILE:HA	25	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2790)	1:8:B:GLU:H	1:8:B:GLU:HA	2	0.29
(2,2790)	1:8:B:GLU:H	1:8:B:GLU:HA	5	0.29
(2,2779)	1:67:B:ASN:H	1:66:B:PHE:H	4	0.29
(2,2779)	1:67:B:ASN:H	1:66:B:PHE:H	13	0.29
(2,2779)	1:67:B:ASN:H	1:66:B:PHE:H	25	0.29
(2,2710)	1:67:B:ASN:HB3	1:67:B:ASN:HD22	2	0.29
(2,2595)	1:27:B:LEU:H	1:27:B:LEU:HB2	16	0.29
(2,2579)	1:57:B:PHE:HB2	1:60:B:GLY:H	4	0.29
(2,2390)	1:20:B:LEU:H	1:20:B:LEU:HB3	9	0.29
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD1	24	0.29
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD2	24	0.29
(2,2280)	1:66:B:PHE:H	1:66:B:PHE:HD1	1	0.29
(2,2280)	1:66:B:PHE:H	1:66:B:PHE:HD2	1	0.29
(2,2280)	1:66:B:PHE:H	1:66:B:PHE:HD1	6	0.29
(2,2280)	1:66:B:PHE:H	1:66:B:PHE:HD2	6	0.29
(2,2280)	1:66:B:PHE:H	1:66:B:PHE:HD1	11	0.29
(2,2280)	1:66:B:PHE:H	1:66:B:PHE:HD2	11	0.29
(2,2279)	1:58:B:VAL:H	1:61:B:GLU:HB3	13	0.29
(2,2156)	1:38:B:ALA:H	1:37:B:LYS:HB2	22	0.29
(2,2053)	1:86:B:GLY:H	1:87:B:MET:HB2	6	0.29
(2,2053)	1:86:B:GLY:H	1:87:B:MET:HB2	20	0.29
(2,2041)	1:46:B:GLY:H	1:45:B:TYR:HB2	20	0.29
(2,1965)	1:46:B:GLY:H	1:45:B:TYR:HD1	16	0.29
(2,1965)	1:46:B:GLY:H	1:45:B:TYR:HD2	16	0.29
(2,1964)	1:93:B:GLN:H	1:93:B:GLN:HB3	11	0.29
(2,1946)	1:90:B:GLU:HB3	1:91:B:ILE:HA	17	0.29
(2,1946)	1:90:B:GLU:HB3	1:91:B:ILE:HA	23	0.29
(2,1842)	1:89:B:ILE:H	1:88:B:TYR:HD1	18	0.29
(2,1842)	1:89:B:ILE:H	1:88:B:TYR:HD2	18	0.29
(2,1815)	1:84:B:ILE:HG12	1:84:B:ILE:HA	23	0.29
(2,1561)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	1	0.29
(2,1561)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	7	0.29
(2,1561)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	13	0.29
(2,1561)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	14	0.29
(2,1561)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	15	0.29
(2,1561)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	20	0.29
(2,1502)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	9	0.29
(2,1494)	1:27:B:LEU:H	1:26:B:LYS:HB3	11	0.29
(2,1465)	1:87:B:MET:HG3	1:87:B:MET:H	13	0.29
(2,1384)	1:77:B:ASN:HB3	1:76:B:SER:H	19	0.29
(2,1359)	1:12:B:SER:H	1:13:B:ILE:HA	6	0.29
(2,1359)	1:12:B:SER:H	1:13:B:ILE:HA	17	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1359)	1:12:B:SER:H	1:13:B:ILE:HA	25	0.29
(2,1358)	1:8:B:GLU:H	1:8:B:GLU:HA	2	0.29
(2,1358)	1:8:B:GLU:H	1:8:B:GLU:HA	5	0.29
(2,1347)	1:67:B:ASN:H	1:66:B:PHE:H	4	0.29
(2,1347)	1:67:B:ASN:H	1:66:B:PHE:H	13	0.29
(2,1347)	1:67:B:ASN:H	1:66:B:PHE:H	25	0.29
(2,1278)	1:67:B:ASN:HB3	1:67:B:ASN:HD22	2	0.29
(2,1163)	1:27:B:LEU:H	1:27:B:LEU:HB2	16	0.29
(2,1147)	1:57:B:PHE:HB2	1:60:B:GLY:H	4	0.29
(2,958)	1:20:B:LEU:H	1:20:B:LEU:HB3	9	0.29
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD1	24	0.29
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD2	24	0.29
(2,848)	1:66:B:PHE:H	1:66:B:PHE:HD1	1	0.29
(2,848)	1:66:B:PHE:H	1:66:B:PHE:HD2	1	0.29
(2,848)	1:66:B:PHE:H	1:66:B:PHE:HD1	6	0.29
(2,848)	1:66:B:PHE:H	1:66:B:PHE:HD2	6	0.29
(2,848)	1:66:B:PHE:H	1:66:B:PHE:HD1	11	0.29
(2,848)	1:66:B:PHE:H	1:66:B:PHE:HD2	11	0.29
(2,847)	1:58:B:VAL:H	1:61:B:GLU:HB3	13	0.29
(2,724)	1:38:B:ALA:H	1:37:B:LYS:HB2	22	0.29
(2,621)	1:86:B:GLY:H	1:87:B:MET:HB2	6	0.29
(2,621)	1:86:B:GLY:H	1:87:B:MET:HB2	20	0.29
(2,609)	1:46:B:GLY:H	1:45:B:TYR:HB2	20	0.29
(2,533)	1:46:B:GLY:H	1:45:B:TYR:HD1	16	0.29
(2,533)	1:46:B:GLY:H	1:45:B:TYR:HD2	16	0.29
(2,532)	1:93:B:GLN:H	1:93:B:GLN:HB3	11	0.29
(2,514)	1:90:B:GLU:HB3	1:91:B:ILE:HA	17	0.29
(2,514)	1:90:B:GLU:HB3	1:91:B:ILE:HA	23	0.29
(2,410)	1:89:B:ILE:H	1:88:B:TYR:HD1	18	0.29
(2,410)	1:89:B:ILE:H	1:88:B:TYR:HD2	18	0.29
(2,383)	1:84:B:ILE:HG12	1:84:B:ILE:HA	23	0.29
(2,129)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	1	0.29
(2,129)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	7	0.29
(2,129)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	13	0.29
(2,129)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	14	0.29
(2,129)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	15	0.29
(2,129)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	20	0.29
(2,70)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	9	0.29
(2,62)	1:27:B:LEU:H	1:26:B:LYS:HB3	11	0.29
(2,33)	1:87:B:MET:HG3	1:87:B:MET:H	13	0.29
(1,91)	1:58:B:VAL:H	1:62:B:LYS:O	6	0.29
(1,91)	1:58:B:VAL:H	1:62:B:LYS:O	13	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,44)	1:58:B:VAL:H	1:62:B:LYS:O	6	0.29
(1,44)	1:58:B:VAL:H	1:62:B:LYS:O	13	0.29
(2,2863)	1:33:B:GLY:HA3	1:86:B:GLY:HA3	15	0.28
(2,2862)	1:82:B:LEU:HG	1:84:B:ILE:HA	13	0.28
(2,2841)	1:45:B:TYR:HB2	1:24:B:LYS:HB2	6	0.28
(2,2833)	1:67:B:ASN:HB2	1:67:B:ASN:HD22	21	0.28
(2,2816)	1:77:B:ASN:HB3	1:76:B:SER:H	12	0.28
(2,2793)	1:57:B:PHE:HA	1:57:B:PHE:HD1	14	0.28
(2,2793)	1:57:B:PHE:HA	1:57:B:PHE:HD2	14	0.28
(2,2791)	1:12:B:SER:H	1:13:B:ILE:HA	12	0.28
(2,2790)	1:8:B:GLU:H	1:8:B:GLU:HA	19	0.28
(2,2790)	1:8:B:GLU:H	1:8:B:GLU:HA	21	0.28
(2,2723)	1:84:B:ILE:H	1:84:B:ILE:HG12	12	0.28
(2,2721)	1:90:B:GLU:HG3	1:88:B:TYR:HE1	15	0.28
(2,2721)	1:90:B:GLU:HG3	1:88:B:TYR:HE2	15	0.28
(2,2721)	1:90:B:GLU:HG3	1:88:B:TYR:HE1	20	0.28
(2,2721)	1:90:B:GLU:HG3	1:88:B:TYR:HE2	20	0.28
(2,2595)	1:27:B:LEU:H	1:27:B:LEU:HB2	10	0.28
(2,2595)	1:27:B:LEU:H	1:27:B:LEU:HB2	13	0.28
(2,2579)	1:57:B:PHE:HB2	1:60:B:GLY:H	3	0.28
(2,2579)	1:57:B:PHE:HB2	1:60:B:GLY:H	7	0.28
(2,2579)	1:57:B:PHE:HB2	1:60:B:GLY:H	17	0.28
(2,2579)	1:57:B:PHE:HB2	1:60:B:GLY:H	20	0.28
(2,2346)	1:55:B:GLY:H	1:54:B:TRP:HB2	10	0.28
(2,2274)	1:3:B:GLN:H	1:3:B:GLN:HG3	4	0.28
(2,2156)	1:38:B:ALA:H	1:37:B:LYS:HB2	16	0.28
(2,2093)	1:13:B:ILE:HA	1:13:B:ILE:HG13	2	0.28
(2,2093)	1:13:B:ILE:HA	1:13:B:ILE:HG13	8	0.28
(2,2053)	1:86:B:GLY:H	1:87:B:MET:HB2	11	0.28
(2,2053)	1:86:B:GLY:H	1:87:B:MET:HB2	15	0.28
(2,1981)	1:58:B:VAL:H	1:61:B:GLU:HB2	25	0.28
(2,1964)	1:93:B:GLN:H	1:93:B:GLN:HB3	6	0.28
(2,1832)	1:10:B:MET:HA	1:10:B:MET:HB2	19	0.28
(2,1815)	1:84:B:ILE:HG12	1:84:B:ILE:HA	2	0.28
(2,1815)	1:84:B:ILE:HG12	1:84:B:ILE:HA	14	0.28
(2,1815)	1:84:B:ILE:HG12	1:84:B:ILE:HA	18	0.28
(2,1786)	1:56:B:ILE:HB	1:66:B:PHE:HZ	14	0.28
(2,1784)	1:45:B:TYR:H	1:25:B:GLY:HA3	21	0.28
(2,1635)	1:56:B:ILE:HA	1:54:B:TRP:HE3	7	0.28
(2,1561)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	2	0.28
(2,1561)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	16	0.28
(2,1561)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	22	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1561)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	24	0.28
(2,1502)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	15	0.28
(2,1432)	1:33:B:GLY:HA3	1:86:B:GLY:HA3	15	0.28
(2,1431)	1:82:B:LEU:HG	1:84:B:ILE:HA	13	0.28
(2,1409)	1:45:B:TYR:HB2	1:24:B:LYS:HB2	6	0.28
(2,1401)	1:67:B:ASN:HB2	1:67:B:ASN:HD22	21	0.28
(2,1384)	1:77:B:ASN:HB3	1:76:B:SER:H	12	0.28
(2,1361)	1:57:B:PHE:HA	1:57:B:PHE:HD1	14	0.28
(2,1361)	1:57:B:PHE:HA	1:57:B:PHE:HD2	14	0.28
(2,1359)	1:12:B:SER:H	1:13:B:ILE:HA	12	0.28
(2,1358)	1:8:B:GLU:H	1:8:B:GLU:HA	19	0.28
(2,1358)	1:8:B:GLU:H	1:8:B:GLU:HA	21	0.28
(2,1291)	1:84:B:ILE:H	1:84:B:ILE:HG12	12	0.28
(2,1289)	1:90:B:GLU:HG3	1:88:B:TYR:HE1	15	0.28
(2,1289)	1:90:B:GLU:HG3	1:88:B:TYR:HE2	15	0.28
(2,1289)	1:90:B:GLU:HG3	1:88:B:TYR:HE1	20	0.28
(2,1289)	1:90:B:GLU:HG3	1:88:B:TYR:HE2	20	0.28
(2,1163)	1:27:B:LEU:H	1:27:B:LEU:HB2	10	0.28
(2,1163)	1:27:B:LEU:H	1:27:B:LEU:HB2	13	0.28
(2,1147)	1:57:B:PHE:HB2	1:60:B:GLY:H	3	0.28
(2,1147)	1:57:B:PHE:HB2	1:60:B:GLY:H	7	0.28
(2,1147)	1:57:B:PHE:HB2	1:60:B:GLY:H	17	0.28
(2,1147)	1:57:B:PHE:HB2	1:60:B:GLY:H	20	0.28
(2,914)	1:55:B:GLY:H	1:54:B:TRP:HB2	10	0.28
(2,842)	1:3:B:GLN:H	1:3:B:GLN:HG3	4	0.28
(2,724)	1:38:B:ALA:H	1:37:B:LYS:HB2	16	0.28
(2,661)	1:13:B:ILE:HA	1:13:B:ILE:HG13	2	0.28
(2,661)	1:13:B:ILE:HA	1:13:B:ILE:HG13	8	0.28
(2,621)	1:86:B:GLY:H	1:87:B:MET:HB2	11	0.28
(2,621)	1:86:B:GLY:H	1:87:B:MET:HB2	15	0.28
(2,549)	1:58:B:VAL:H	1:61:B:GLU:HB2	25	0.28
(2,532)	1:93:B:GLN:H	1:93:B:GLN:HB3	6	0.28
(2,400)	1:10:B:MET:HA	1:10:B:MET:HB2	19	0.28
(2,383)	1:84:B:ILE:HG12	1:84:B:ILE:HA	2	0.28
(2,383)	1:84:B:ILE:HG12	1:84:B:ILE:HA	14	0.28
(2,383)	1:84:B:ILE:HG12	1:84:B:ILE:HA	18	0.28
(2,354)	1:56:B:ILE:HB	1:66:B:PHE:HZ	14	0.28
(2,352)	1:45:B:TYR:H	1:25:B:GLY:HA3	21	0.28
(2,203)	1:56:B:ILE:HA	1:54:B:TRP:HE3	7	0.28
(2,129)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	2	0.28
(2,129)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	16	0.28
(2,129)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	22	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,129)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	24	0.28
(2,70)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	15	0.28
(1,91)	1:58:B:VAL:H	1:62:B:LYS:O	5	0.28
(1,91)	1:58:B:VAL:H	1:62:B:LYS:O	10	0.28
(1,91)	1:58:B:VAL:H	1:62:B:LYS:O	11	0.28
(1,91)	1:58:B:VAL:H	1:62:B:LYS:O	12	0.28
(1,44)	1:58:B:VAL:H	1:62:B:LYS:O	5	0.28
(1,44)	1:58:B:VAL:H	1:62:B:LYS:O	10	0.28
(1,44)	1:58:B:VAL:H	1:62:B:LYS:O	11	0.28
(1,44)	1:58:B:VAL:H	1:62:B:LYS:O	12	0.28
(2,2880)	1:43:B:ALA:H	1:41:B:SER:HA	9	0.27
(2,2862)	1:82:B:LEU:HG	1:84:B:ILE:HA	10	0.27
(2,2841)	1:45:B:TYR:HB2	1:24:B:LYS:HB2	3	0.27
(2,2833)	1:67:B:ASN:HB2	1:67:B:ASN:HD22	5	0.27
(2,2833)	1:67:B:ASN:HB2	1:67:B:ASN:HD22	25	0.27
(2,2821)	1:19:B:LYS:H	1:19:B:LYS:HG2	25	0.27
(2,2820)	1:87:B:MET:HG2	1:87:B:MET:H	1	0.27
(2,2813)	1:74:B:ASN:H	1:74:B:ASN:HB3	1	0.27
(2,2813)	1:74:B:ASN:H	1:74:B:ASN:HB3	10	0.27
(2,2813)	1:74:B:ASN:H	1:74:B:ASN:HB3	21	0.27
(2,2792)	1:9:B:GLN:H	1:8:B:GLU:HA	1	0.27
(2,2791)	1:12:B:SER:H	1:13:B:ILE:HA	5	0.27
(2,2791)	1:12:B:SER:H	1:13:B:ILE:HA	16	0.27
(2,2790)	1:8:B:GLU:H	1:8:B:GLU:HA	7	0.27
(2,2790)	1:8:B:GLU:H	1:8:B:GLU:HA	14	0.27
(2,2790)	1:8:B:GLU:H	1:8:B:GLU:HA	15	0.27
(2,2790)	1:8:B:GLU:H	1:8:B:GLU:HA	18	0.27
(2,2789)	1:11:B:ASN:H	1:11:B:ASN:HA	20	0.27
(2,2728)	1:83:B:ASN:H	1:83:B:ASN:HB3	23	0.27
(2,2727)	1:49:B:TYR:H	1:49:B:TYR:HD1	5	0.27
(2,2727)	1:49:B:TYR:H	1:49:B:TYR:HD2	5	0.27
(2,2718)	1:59:B:ASN:HD22	1:59:B:ASN:HB3	1	0.27
(2,2718)	1:59:B:ASN:HD22	1:59:B:ASN:HB3	9	0.27
(2,2718)	1:59:B:ASN:HD22	1:59:B:ASN:HB3	14	0.27
(2,2630)	1:91:B:ILE:H	1:90:B:GLU:HB2	6	0.27
(2,2608)	1:22:B:LYS:H	1:21:B:ASN:H	18	0.27
(2,2579)	1:57:B:PHE:HB2	1:60:B:GLY:H	25	0.27
(2,2280)	1:66:B:PHE:H	1:66:B:PHE:HD1	4	0.27
(2,2280)	1:66:B:PHE:H	1:66:B:PHE:HD2	4	0.27
(2,2280)	1:66:B:PHE:H	1:66:B:PHE:HD1	22	0.27
(2,2280)	1:66:B:PHE:H	1:66:B:PHE:HD2	22	0.27
(2,2280)	1:66:B:PHE:H	1:66:B:PHE:HD1	25	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2280)	1:66:B:PHE:H	1:66:B:PHE:HD2	25	0.27
(2,2156)	1:38:B:ALA:H	1:37:B:LYS:HB2	2	0.27
(2,2156)	1:38:B:ALA:H	1:37:B:LYS:HB2	10	0.27
(2,2156)	1:38:B:ALA:H	1:37:B:LYS:HB2	23	0.27
(2,2053)	1:86:B:GLY:H	1:87:B:MET:HB2	8	0.27
(2,2053)	1:86:B:GLY:H	1:87:B:MET:HB2	12	0.27
(2,1981)	1:58:B:VAL:H	1:61:B:GLU:HB2	16	0.27
(2,1965)	1:46:B:GLY:H	1:45:B:TYR:HD1	21	0.27
(2,1965)	1:46:B:GLY:H	1:45:B:TYR:HD2	21	0.27
(2,1901)	1:57:B:PHE:HZ	1:56:B:ILE:HA	15	0.27
(2,1860)	1:13:B:ILE:HB	1:13:B:ILE:H	6	0.27
(2,1860)	1:13:B:ILE:HB	1:13:B:ILE:H	12	0.27
(2,1849)	1:41:B:SER:HB2	1:41:B:SER:HA	18	0.27
(2,1834)	1:44:B:GLY:H	1:43:B:ALA:HA	1	0.27
(2,1834)	1:44:B:GLY:H	1:43:B:ALA:HA	18	0.27
(2,1827)	1:88:B:TYR:HB2	1:59:B:ASN:H	9	0.27
(2,1815)	1:84:B:ILE:HG12	1:84:B:ILE:HA	17	0.27
(2,1786)	1:56:B:ILE:HB	1:66:B:PHE:HZ	21	0.27
(2,1786)	1:56:B:ILE:HB	1:66:B:PHE:HZ	24	0.27
(2,1744)	1:86:B:GLY:H	1:85:B:LYS:HB3	20	0.27
(2,1737)	1:63:B:VAL:H	1:58:B:VAL:H	2	0.27
(2,1726)	1:22:B:LYS:HG2	1:22:B:LYS:HE3	25	0.27
(2,1713)	1:38:B:ALA:H	1:37:B:LYS:HB3	21	0.27
(2,1561)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	8	0.27
(2,1561)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	12	0.27
(2,1502)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	16	0.27
(2,1494)	1:27:B:LEU:H	1:26:B:LYS:HB3	21	0.27
(2,1489)	1:47:B:ILE:H	1:47:B:ILE:HB	21	0.27
(2,1449)	1:43:B:ALA:H	1:41:B:SER:HA	9	0.27
(2,1431)	1:82:B:LEU:HG	1:84:B:ILE:HA	10	0.27
(2,1409)	1:45:B:TYR:HB2	1:24:B:LYS:HB2	3	0.27
(2,1401)	1:67:B:ASN:HB2	1:67:B:ASN:HD22	5	0.27
(2,1401)	1:67:B:ASN:HB2	1:67:B:ASN:HD22	25	0.27
(2,1389)	1:19:B:LYS:H	1:19:B:LYS:HG2	25	0.27
(2,1388)	1:87:B:MET:HG2	1:87:B:MET:H	1	0.27
(2,1381)	1:74:B:ASN:H	1:74:B:ASN:HB3	1	0.27
(2,1381)	1:74:B:ASN:H	1:74:B:ASN:HB3	10	0.27
(2,1381)	1:74:B:ASN:H	1:74:B:ASN:HB3	21	0.27
(2,1360)	1:9:B:GLN:H	1:8:B:GLU:HA	1	0.27
(2,1359)	1:12:B:SER:H	1:13:B:ILE:HA	5	0.27
(2,1359)	1:12:B:SER:H	1:13:B:ILE:HA	16	0.27
(2,1358)	1:8:B:GLU:H	1:8:B:GLU:HA	7	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1358)	1:8:B:GLU:H	1:8:B:GLU:HA	14	0.27
(2,1358)	1:8:B:GLU:H	1:8:B:GLU:HA	15	0.27
(2,1358)	1:8:B:GLU:H	1:8:B:GLU:HA	18	0.27
(2,1357)	1:11:B:ASN:H	1:11:B:ASN:HA	20	0.27
(2,1296)	1:83:B:ASN:H	1:83:B:ASN:HB3	23	0.27
(2,1295)	1:49:B:TYR:H	1:49:B:TYR:HD1	5	0.27
(2,1295)	1:49:B:TYR:H	1:49:B:TYR:HD2	5	0.27
(2,1286)	1:59:B:ASN:HD22	1:59:B:ASN:HB3	1	0.27
(2,1286)	1:59:B:ASN:HD22	1:59:B:ASN:HB3	9	0.27
(2,1286)	1:59:B:ASN:HD22	1:59:B:ASN:HB3	14	0.27
(2,1198)	1:91:B:ILE:H	1:90:B:GLU:HB2	6	0.27
(2,1176)	1:22:B:LYS:H	1:21:B:ASN:H	18	0.27
(2,1147)	1:57:B:PHE:HB2	1:60:B:GLY:H	25	0.27
(2,848)	1:66:B:PHE:H	1:66:B:PHE:HD1	4	0.27
(2,848)	1:66:B:PHE:H	1:66:B:PHE:HD2	4	0.27
(2,848)	1:66:B:PHE:H	1:66:B:PHE:HD1	22	0.27
(2,848)	1:66:B:PHE:H	1:66:B:PHE:HD2	22	0.27
(2,848)	1:66:B:PHE:H	1:66:B:PHE:HD1	25	0.27
(2,848)	1:66:B:PHE:H	1:66:B:PHE:HD2	25	0.27
(2,724)	1:38:B:ALA:H	1:37:B:LYS:HB2	2	0.27
(2,724)	1:38:B:ALA:H	1:37:B:LYS:HB2	10	0.27
(2,724)	1:38:B:ALA:H	1:37:B:LYS:HB2	23	0.27
(2,621)	1:86:B:GLY:H	1:87:B:MET:HB2	8	0.27
(2,621)	1:86:B:GLY:H	1:87:B:MET:HB2	12	0.27
(2,549)	1:58:B:VAL:H	1:61:B:GLU:HB2	16	0.27
(2,533)	1:46:B:GLY:H	1:45:B:TYR:HD1	21	0.27
(2,533)	1:46:B:GLY:H	1:45:B:TYR:HD2	21	0.27
(2,469)	1:57:B:PHE:HZ	1:56:B:ILE:HA	15	0.27
(2,428)	1:13:B:ILE:HB	1:13:B:ILE:H	6	0.27
(2,428)	1:13:B:ILE:HB	1:13:B:ILE:H	12	0.27
(2,417)	1:41:B:SER:HB2	1:41:B:SER:HA	18	0.27
(2,402)	1:44:B:GLY:H	1:43:B:ALA:HA	1	0.27
(2,402)	1:44:B:GLY:H	1:43:B:ALA:HA	18	0.27
(2,395)	1:88:B:TYR:HB2	1:59:B:ASN:H	9	0.27
(2,383)	1:84:B:ILE:HG12	1:84:B:ILE:HA	17	0.27
(2,354)	1:56:B:ILE:HB	1:66:B:PHE:HZ	21	0.27
(2,354)	1:56:B:ILE:HB	1:66:B:PHE:HZ	24	0.27
(2,312)	1:86:B:GLY:H	1:85:B:LYS:HB3	20	0.27
(2,305)	1:63:B:VAL:H	1:58:B:VAL:H	2	0.27
(2,294)	1:22:B:LYS:HG2	1:22:B:LYS:HE3	25	0.27
(2,281)	1:38:B:ALA:H	1:37:B:LYS:HB3	21	0.27
(2,129)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	8	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,129)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	12	0.27
(2,70)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	16	0.27
(2,62)	1:27:B:LEU:H	1:26:B:LYS:HB3	21	0.27
(2,57)	1:47:B:ILE:H	1:47:B:ILE:HB	21	0.27
(1,91)	1:58:B:VAL:H	1:62:B:LYS:O	4	0.27
(1,91)	1:58:B:VAL:H	1:62:B:LYS:O	19	0.27
(1,91)	1:58:B:VAL:H	1:62:B:LYS:O	25	0.27
(1,60)	1:15:B:SER:H	1:11:B:ASN:O	4	0.27
(1,44)	1:58:B:VAL:H	1:62:B:LYS:O	4	0.27
(1,44)	1:58:B:VAL:H	1:62:B:LYS:O	19	0.27
(1,44)	1:58:B:VAL:H	1:62:B:LYS:O	25	0.27
(1,13)	1:15:B:SER:H	1:11:B:ASN:O	4	0.27
(2,2863)	1:33:B:GLY:HA3	1:86:B:GLY:HA3	9	0.26
(2,2833)	1:67:B:ASN:HB2	1:67:B:ASN:HD22	4	0.26
(2,2833)	1:67:B:ASN:HB2	1:67:B:ASN:HD22	6	0.26
(2,2833)	1:67:B:ASN:HB2	1:67:B:ASN:HD22	12	0.26
(2,2833)	1:67:B:ASN:HB2	1:67:B:ASN:HD22	16	0.26
(2,2833)	1:67:B:ASN:HB2	1:67:B:ASN:HD22	22	0.26
(2,2816)	1:77:B:ASN:HB3	1:76:B:SER:H	4	0.26
(2,2816)	1:77:B:ASN:HB3	1:76:B:SER:H	5	0.26
(2,2816)	1:77:B:ASN:HB3	1:76:B:SER:H	6	0.26
(2,2816)	1:77:B:ASN:HB3	1:76:B:SER:H	7	0.26
(2,2816)	1:77:B:ASN:HB3	1:76:B:SER:H	15	0.26
(2,2816)	1:77:B:ASN:HB3	1:76:B:SER:H	18	0.26
(2,2816)	1:77:B:ASN:HB3	1:76:B:SER:H	20	0.26
(2,2813)	1:74:B:ASN:H	1:74:B:ASN:HB3	5	0.26
(2,2813)	1:74:B:ASN:H	1:74:B:ASN:HB3	25	0.26
(2,2791)	1:12:B:SER:H	1:13:B:ILE:HA	15	0.26
(2,2790)	1:8:B:GLU:H	1:8:B:GLU:HA	9	0.26
(2,2790)	1:8:B:GLU:H	1:8:B:GLU:HA	11	0.26
(2,2790)	1:8:B:GLU:H	1:8:B:GLU:HA	20	0.26
(2,2787)	1:48:B:SER:H	1:47:B:ILE:HG13	18	0.26
(2,2718)	1:59:B:ASN:HD22	1:59:B:ASN:HB3	4	0.26
(2,2718)	1:59:B:ASN:HD22	1:59:B:ASN:HB3	15	0.26
(2,2717)	1:31:B:MET:H	1:31:B:MET:HB3	3	0.26
(2,2595)	1:27:B:LEU:H	1:27:B:LEU:HB2	4	0.26
(2,2595)	1:27:B:LEU:H	1:27:B:LEU:HB2	8	0.26
(2,2579)	1:57:B:PHE:HB2	1:60:B:GLY:H	23	0.26
(2,2429)	1:47:B:ILE:H	1:46:B:GLY:H	21	0.26
(2,2377)	1:48:B:SER:HB3	1:48:B:SER:H	4	0.26
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD1	5	0.26
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD2	5	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2346)	1:55:B:GLY:H	1:54:B:TRP:HB2	25	0.26
(2,2344)	1:80:B:ASN:H	1:77:B:ASN:HA	20	0.26
(2,2284)	1:66:B:PHE:H	1:64:B:TYR:HB3	10	0.26
(2,2284)	1:66:B:PHE:H	1:64:B:TYR:HB3	23	0.26
(2,2284)	1:66:B:PHE:H	1:64:B:TYR:HB3	24	0.26
(2,2283)	1:21:B:ASN:HB2	1:21:B:ASN:H	4	0.26
(2,2279)	1:58:B:VAL:H	1:61:B:GLU:HB3	22	0.26
(2,2279)	1:58:B:VAL:H	1:61:B:GLU:HB3	24	0.26
(2,2261)	1:50:B:GLU:H	1:49:B:TYR:HB3	11	0.26
(2,2156)	1:38:B:ALA:H	1:37:B:LYS:HB2	4	0.26
(2,2156)	1:38:B:ALA:H	1:37:B:LYS:HB2	14	0.26
(2,2156)	1:38:B:ALA:H	1:37:B:LYS:HB2	15	0.26
(2,2093)	1:13:B:ILE:HA	1:13:B:ILE:HG13	10	0.26
(2,2093)	1:13:B:ILE:HA	1:13:B:ILE:HG13	19	0.26
(2,2076)	1:88:B:TYR:HD1	1:89:B:ILE:HA	5	0.26
(2,2076)	1:88:B:TYR:HD2	1:89:B:ILE:HA	5	0.26
(2,2062)	1:88:B:TYR:H	1:86:B:GLY:HA3	22	0.26
(2,2053)	1:86:B:GLY:H	1:87:B:MET:HB2	13	0.26
(2,2053)	1:86:B:GLY:H	1:87:B:MET:HB2	22	0.26
(2,1989)	1:20:B:LEU:HB3	1:54:B:TRP:HZ2	23	0.26
(2,1981)	1:58:B:VAL:H	1:61:B:GLU:HB2	3	0.26
(2,1981)	1:58:B:VAL:H	1:61:B:GLU:HB2	23	0.26
(2,1964)	1:93:B:GLN:H	1:93:B:GLN:HB3	5	0.26
(2,1964)	1:93:B:GLN:H	1:93:B:GLN:HB3	17	0.26
(2,1964)	1:93:B:GLN:H	1:93:B:GLN:HB3	19	0.26
(2,1964)	1:93:B:GLN:H	1:93:B:GLN:HB3	23	0.26
(2,1952)	1:62:B:LYS:HE2	1:57:B:PHE:HZ	15	0.26
(2,1901)	1:57:B:PHE:HZ	1:56:B:ILE:HA	10	0.26
(2,1881)	1:90:B:GLU:HB3	1:90:B:GLU:HG3	19	0.26
(2,1860)	1:13:B:ILE:HB	1:13:B:ILE:H	16	0.26
(2,1860)	1:13:B:ILE:HB	1:13:B:ILE:H	17	0.26
(2,1842)	1:89:B:ILE:H	1:88:B:TYR:HD1	13	0.26
(2,1842)	1:89:B:ILE:H	1:88:B:TYR:HD2	13	0.26
(2,1842)	1:89:B:ILE:H	1:88:B:TYR:HD1	20	0.26
(2,1842)	1:89:B:ILE:H	1:88:B:TYR:HD2	20	0.26
(2,1834)	1:44:B:GLY:H	1:43:B:ALA:HA	7	0.26
(2,1834)	1:44:B:GLY:H	1:43:B:ALA:HA	12	0.26
(2,1834)	1:44:B:GLY:H	1:43:B:ALA:HA	17	0.26
(2,1834)	1:44:B:GLY:H	1:43:B:ALA:HA	19	0.26
(2,1834)	1:44:B:GLY:H	1:43:B:ALA:HA	24	0.26
(2,1832)	1:10:B:MET:HA	1:10:B:MET:HB2	1	0.26
(2,1815)	1:84:B:ILE:HG12	1:84:B:ILE:HA	12	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1786)	1:56:B:ILE:HB	1:66:B:PHE:HZ	4	0.26
(2,1737)	1:63:B:VAL:H	1:58:B:VAL:H	8	0.26
(2,1713)	1:38:B:ALA:H	1:37:B:LYS:HB3	25	0.26
(2,1502)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	5	0.26
(2,1502)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	19	0.26
(2,1494)	1:27:B:LEU:H	1:26:B:LYS:HB3	16	0.26
(2,1481)	1:85:B:LYS:HB3	1:85:B:LYS:H	18	0.26
(2,1432)	1:33:B:GLY:HA3	1:86:B:GLY:HA3	9	0.26
(2,1401)	1:67:B:ASN:HB2	1:67:B:ASN:HD22	4	0.26
(2,1401)	1:67:B:ASN:HB2	1:67:B:ASN:HD22	6	0.26
(2,1401)	1:67:B:ASN:HB2	1:67:B:ASN:HD22	12	0.26
(2,1401)	1:67:B:ASN:HB2	1:67:B:ASN:HD22	16	0.26
(2,1401)	1:67:B:ASN:HB2	1:67:B:ASN:HD22	22	0.26
(2,1384)	1:77:B:ASN:HB3	1:76:B:SER:H	4	0.26
(2,1384)	1:77:B:ASN:HB3	1:76:B:SER:H	5	0.26
(2,1384)	1:77:B:ASN:HB3	1:76:B:SER:H	6	0.26
(2,1384)	1:77:B:ASN:HB3	1:76:B:SER:H	7	0.26
(2,1384)	1:77:B:ASN:HB3	1:76:B:SER:H	15	0.26
(2,1384)	1:77:B:ASN:HB3	1:76:B:SER:H	18	0.26
(2,1384)	1:77:B:ASN:HB3	1:76:B:SER:H	20	0.26
(2,1381)	1:74:B:ASN:H	1:74:B:ASN:HB3	5	0.26
(2,1381)	1:74:B:ASN:H	1:74:B:ASN:HB3	25	0.26
(2,1359)	1:12:B:SER:H	1:13:B:ILE:HA	15	0.26
(2,1358)	1:8:B:GLU:H	1:8:B:GLU:HA	9	0.26
(2,1358)	1:8:B:GLU:H	1:8:B:GLU:HA	11	0.26
(2,1358)	1:8:B:GLU:H	1:8:B:GLU:HA	20	0.26
(2,1355)	1:48:B:SER:H	1:47:B:ILE:HG13	18	0.26
(2,1286)	1:59:B:ASN:HD22	1:59:B:ASN:HB3	4	0.26
(2,1286)	1:59:B:ASN:HD22	1:59:B:ASN:HB3	15	0.26
(2,1285)	1:31:B:MET:H	1:31:B:MET:HB3	3	0.26
(2,1163)	1:27:B:LEU:H	1:27:B:LEU:HB2	4	0.26
(2,1163)	1:27:B:LEU:H	1:27:B:LEU:HB2	8	0.26
(2,1147)	1:57:B:PHE:HB2	1:60:B:GLY:H	23	0.26
(2,997)	1:47:B:ILE:H	1:46:B:GLY:H	21	0.26
(2,945)	1:48:B:SER:HB3	1:48:B:SER:H	4	0.26
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD1	5	0.26
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD2	5	0.26
(2,914)	1:55:B:GLY:H	1:54:B:TRP:HB2	25	0.26
(2,912)	1:80:B:ASN:H	1:77:B:ASN:HA	20	0.26
(2,852)	1:66:B:PHE:H	1:64:B:TYR:HB3	10	0.26
(2,852)	1:66:B:PHE:H	1:64:B:TYR:HB3	23	0.26
(2,852)	1:66:B:PHE:H	1:64:B:TYR:HB3	24	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,851)	1:21:B:ASN:HB2	1:21:B:ASN:H	4	0.26
(2,847)	1:58:B:VAL:H	1:61:B:GLU:HB3	22	0.26
(2,847)	1:58:B:VAL:H	1:61:B:GLU:HB3	24	0.26
(2,829)	1:50:B:GLU:H	1:49:B:TYR:HB3	11	0.26
(2,724)	1:38:B:ALA:H	1:37:B:LYS:HB2	4	0.26
(2,724)	1:38:B:ALA:H	1:37:B:LYS:HB2	14	0.26
(2,724)	1:38:B:ALA:H	1:37:B:LYS:HB2	15	0.26
(2,661)	1:13:B:ILE:HA	1:13:B:ILE:HG13	10	0.26
(2,661)	1:13:B:ILE:HA	1:13:B:ILE:HG13	19	0.26
(2,644)	1:88:B:TYR:HD1	1:89:B:ILE:HA	5	0.26
(2,644)	1:88:B:TYR:HD2	1:89:B:ILE:HA	5	0.26
(2,630)	1:88:B:TYR:H	1:86:B:GLY:HA3	22	0.26
(2,621)	1:86:B:GLY:H	1:87:B:MET:HB2	13	0.26
(2,621)	1:86:B:GLY:H	1:87:B:MET:HB2	22	0.26
(2,557)	1:20:B:LEU:HB3	1:54:B:TRP:HZ2	23	0.26
(2,549)	1:58:B:VAL:H	1:61:B:GLU:HB2	3	0.26
(2,549)	1:58:B:VAL:H	1:61:B:GLU:HB2	23	0.26
(2,532)	1:93:B:GLN:H	1:93:B:GLN:HB3	5	0.26
(2,532)	1:93:B:GLN:H	1:93:B:GLN:HB3	17	0.26
(2,532)	1:93:B:GLN:H	1:93:B:GLN:HB3	19	0.26
(2,532)	1:93:B:GLN:H	1:93:B:GLN:HB3	23	0.26
(2,520)	1:62:B:LYS:HE2	1:57:B:PHE:HZ	15	0.26
(2,469)	1:57:B:PHE:HZ	1:56:B:ILE:HA	10	0.26
(2,449)	1:90:B:GLU:HB3	1:90:B:GLU:HG3	19	0.26
(2,428)	1:13:B:ILE:HB	1:13:B:ILE:H	16	0.26
(2,428)	1:13:B:ILE:HB	1:13:B:ILE:H	17	0.26
(2,410)	1:89:B:ILE:H	1:88:B:TYR:HD1	13	0.26
(2,410)	1:89:B:ILE:H	1:88:B:TYR:HD2	13	0.26
(2,410)	1:89:B:ILE:H	1:88:B:TYR:HD1	20	0.26
(2,410)	1:89:B:ILE:H	1:88:B:TYR:HD2	20	0.26
(2,402)	1:44:B:GLY:H	1:43:B:ALA:HA	7	0.26
(2,402)	1:44:B:GLY:H	1:43:B:ALA:HA	12	0.26
(2,402)	1:44:B:GLY:H	1:43:B:ALA:HA	17	0.26
(2,402)	1:44:B:GLY:H	1:43:B:ALA:HA	19	0.26
(2,402)	1:44:B:GLY:H	1:43:B:ALA:HA	24	0.26
(2,400)	1:10:B:MET:HA	1:10:B:MET:HB2	1	0.26
(2,383)	1:84:B:ILE:HG12	1:84:B:ILE:HA	12	0.26
(2,354)	1:56:B:ILE:HB	1:66:B:PHE:HZ	4	0.26
(2,305)	1:63:B:VAL:H	1:58:B:VAL:H	8	0.26
(2,281)	1:38:B:ALA:H	1:37:B:LYS:HB3	25	0.26
(2,70)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	5	0.26
(2,70)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	19	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,62)	1:27:B:LEU:H	1:26:B:LYS:HB3	16	0.26
(2,49)	1:85:B:LYS:HB3	1:85:B:LYS:H	18	0.26
(1,91)	1:58:B:VAL:H	1:62:B:LYS:O	17	0.26
(1,44)	1:58:B:VAL:H	1:62:B:LYS:O	17	0.26
(2,2884)	1:26:B:LYS:HG2	1:26:B:LYS:H	3	0.25
(2,2880)	1:43:B:ALA:H	1:41:B:SER:HA	19	0.25
(2,2833)	1:67:B:ASN:HB2	1:67:B:ASN:HD22	3	0.25
(2,2833)	1:67:B:ASN:HB2	1:67:B:ASN:HD22	9	0.25
(2,2833)	1:67:B:ASN:HB2	1:67:B:ASN:HD22	15	0.25
(2,2833)	1:67:B:ASN:HB2	1:67:B:ASN:HD22	18	0.25
(2,2833)	1:67:B:ASN:HB2	1:67:B:ASN:HD22	19	0.25
(2,2816)	1:77:B:ASN:HB3	1:76:B:SER:H	8	0.25
(2,2816)	1:77:B:ASN:HB3	1:76:B:SER:H	9	0.25
(2,2816)	1:77:B:ASN:HB3	1:76:B:SER:H	17	0.25
(2,2816)	1:77:B:ASN:HB3	1:76:B:SER:H	24	0.25
(2,2800)	1:48:B:SER:H	1:47:B:ILE:HG12	8	0.25
(2,2791)	1:12:B:SER:H	1:13:B:ILE:HA	7	0.25
(2,2790)	1:8:B:GLU:H	1:8:B:GLU:HA	4	0.25
(2,2790)	1:8:B:GLU:H	1:8:B:GLU:HA	6	0.25
(2,2790)	1:8:B:GLU:H	1:8:B:GLU:HA	16	0.25
(2,2790)	1:8:B:GLU:H	1:8:B:GLU:HA	25	0.25
(2,2789)	1:11:B:ASN:H	1:11:B:ASN:HA	10	0.25
(2,2638)	1:91:B:ILE:HG21	1:91:B:ILE:HD11	2	0.25
(2,2638)	1:91:B:ILE:HG21	1:91:B:ILE:HD12	2	0.25
(2,2638)	1:91:B:ILE:HG21	1:91:B:ILE:HD13	2	0.25
(2,2638)	1:91:B:ILE:HG22	1:91:B:ILE:HD11	2	0.25
(2,2638)	1:91:B:ILE:HG22	1:91:B:ILE:HD12	2	0.25
(2,2638)	1:91:B:ILE:HG22	1:91:B:ILE:HD13	2	0.25
(2,2638)	1:91:B:ILE:HG23	1:91:B:ILE:HD11	2	0.25
(2,2638)	1:91:B:ILE:HG23	1:91:B:ILE:HD12	2	0.25
(2,2638)	1:91:B:ILE:HG23	1:91:B:ILE:HD13	2	0.25
(2,2595)	1:27:B:LEU:H	1:27:B:LEU:HB2	22	0.25
(2,2595)	1:27:B:LEU:H	1:27:B:LEU:HB2	25	0.25
(2,2584)	1:24:B:LYS:H	1:24:B:LYS:HG2	21	0.25
(2,2579)	1:57:B:PHE:HB2	1:60:B:GLY:H	9	0.25
(2,2579)	1:57:B:PHE:HB2	1:60:B:GLY:H	12	0.25
(2,2530)	1:56:B:ILE:H	1:56:B:ILE:HG12	1	0.25
(2,2465)	1:16:B:VAL:H	1:14:B:ASN:HB3	8	0.25
(2,2418)	1:22:B:LYS:H	1:23:B:GLY:H	18	0.25
(2,2346)	1:55:B:GLY:H	1:54:B:TRP:HB2	2	0.25
(2,2346)	1:55:B:GLY:H	1:54:B:TRP:HB2	12	0.25
(2,2341)	1:18:B:ASP:H	1:15:B:SER:HA	4	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2284)	1:66:B:PHE:H	1:64:B:TYR:HB3	9	0.25
(2,2284)	1:66:B:PHE:H	1:64:B:TYR:HB3	22	0.25
(2,2280)	1:66:B:PHE:H	1:66:B:PHE:HD1	13	0.25
(2,2280)	1:66:B:PHE:H	1:66:B:PHE:HD2	13	0.25
(2,2279)	1:58:B:VAL:H	1:61:B:GLU:HB3	5	0.25
(2,2156)	1:38:B:ALA:H	1:37:B:LYS:HB2	3	0.25
(2,2156)	1:38:B:ALA:H	1:37:B:LYS:HB2	25	0.25
(2,2147)	1:7:B:GLU:HA	1:7:B:GLU:HG3	13	0.25
(2,2136)	1:35:B:GLN:HG2	1:35:B:GLN:H	5	0.25
(2,2093)	1:13:B:ILE:HA	1:13:B:ILE:HG13	14	0.25
(2,2093)	1:13:B:ILE:HA	1:13:B:ILE:HG13	20	0.25
(2,1964)	1:93:B:GLN:H	1:93:B:GLN:HB3	10	0.25
(2,1896)	1:70:B:SER:HB3	1:69:B:LYS:HB3	21	0.25
(2,1842)	1:89:B:ILE:H	1:88:B:TYR:HD1	17	0.25
(2,1842)	1:89:B:ILE:H	1:88:B:TYR:HD2	17	0.25
(2,1834)	1:44:B:GLY:H	1:43:B:ALA:HA	2	0.25
(2,1834)	1:44:B:GLY:H	1:43:B:ALA:HA	9	0.25
(2,1834)	1:44:B:GLY:H	1:43:B:ALA:HA	11	0.25
(2,1834)	1:44:B:GLY:H	1:43:B:ALA:HA	21	0.25
(2,1786)	1:56:B:ILE:HB	1:66:B:PHE:HZ	20	0.25
(2,1737)	1:63:B:VAL:H	1:58:B:VAL:H	13	0.25
(2,1723)	1:67:B:ASN:H	1:67:B:ASN:HD22	19	0.25
(2,1721)	1:47:B:ILE:H	1:47:B:ILE:HD11	20	0.25
(2,1721)	1:47:B:ILE:H	1:47:B:ILE:HD12	20	0.25
(2,1721)	1:47:B:ILE:H	1:47:B:ILE:HD13	20	0.25
(2,1713)	1:38:B:ALA:H	1:37:B:LYS:HB3	1	0.25
(2,1704)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	1	0.25
(2,1704)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	11	0.25
(2,1704)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	13	0.25
(2,1606)	1:14:B:ASN:H	1:13:B:ILE:HB	9	0.25
(2,1502)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	2	0.25
(2,1502)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	14	0.25
(2,1457)	1:85:B:LYS:H	1:84:B:ILE:HG12	2	0.25
(2,1453)	1:26:B:LYS:HG2	1:26:B:LYS:H	3	0.25
(2,1449)	1:43:B:ALA:H	1:41:B:SER:HA	19	0.25
(2,1401)	1:67:B:ASN:HB2	1:67:B:ASN:HD22	3	0.25
(2,1401)	1:67:B:ASN:HB2	1:67:B:ASN:HD22	9	0.25
(2,1401)	1:67:B:ASN:HB2	1:67:B:ASN:HD22	15	0.25
(2,1401)	1:67:B:ASN:HB2	1:67:B:ASN:HD22	18	0.25
(2,1401)	1:67:B:ASN:HB2	1:67:B:ASN:HD22	19	0.25
(2,1384)	1:77:B:ASN:HB3	1:76:B:SER:H	8	0.25
(2,1384)	1:77:B:ASN:HB3	1:76:B:SER:H	9	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1384)	1:77:B:ASN:HB3	1:76:B:SER:H	17	0.25
(2,1384)	1:77:B:ASN:HB3	1:76:B:SER:H	24	0.25
(2,1368)	1:48:B:SER:H	1:47:B:ILE:HG12	8	0.25
(2,1359)	1:12:B:SER:H	1:13:B:ILE:HA	7	0.25
(2,1358)	1:8:B:GLU:H	1:8:B:GLU:HA	4	0.25
(2,1358)	1:8:B:GLU:H	1:8:B:GLU:HA	6	0.25
(2,1358)	1:8:B:GLU:H	1:8:B:GLU:HA	16	0.25
(2,1358)	1:8:B:GLU:H	1:8:B:GLU:HA	25	0.25
(2,1357)	1:11:B:ASN:H	1:11:B:ASN:HA	10	0.25
(2,1206)	1:91:B:ILE:HG21	1:91:B:ILE:HD11	2	0.25
(2,1206)	1:91:B:ILE:HG21	1:91:B:ILE:HD12	2	0.25
(2,1206)	1:91:B:ILE:HG21	1:91:B:ILE:HD13	2	0.25
(2,1206)	1:91:B:ILE:HG22	1:91:B:ILE:HD11	2	0.25
(2,1206)	1:91:B:ILE:HG22	1:91:B:ILE:HD12	2	0.25
(2,1206)	1:91:B:ILE:HG22	1:91:B:ILE:HD13	2	0.25
(2,1206)	1:91:B:ILE:HG23	1:91:B:ILE:HD11	2	0.25
(2,1206)	1:91:B:ILE:HG23	1:91:B:ILE:HD12	2	0.25
(2,1206)	1:91:B:ILE:HG23	1:91:B:ILE:HD13	2	0.25
(2,1163)	1:27:B:LEU:H	1:27:B:LEU:HB2	22	0.25
(2,1163)	1:27:B:LEU:H	1:27:B:LEU:HB2	25	0.25
(2,1152)	1:24:B:LYS:H	1:24:B:LYS:HG2	21	0.25
(2,1147)	1:57:B:PHE:HB2	1:60:B:GLY:H	9	0.25
(2,1147)	1:57:B:PHE:HB2	1:60:B:GLY:H	12	0.25
(2,1098)	1:56:B:ILE:H	1:56:B:ILE:HG12	1	0.25
(2,1033)	1:16:B:VAL:H	1:14:B:ASN:HB3	8	0.25
(2,986)	1:22:B:LYS:H	1:23:B:GLY:H	18	0.25
(2,914)	1:55:B:GLY:H	1:54:B:TRP:HB2	2	0.25
(2,914)	1:55:B:GLY:H	1:54:B:TRP:HB2	12	0.25
(2,909)	1:18:B:ASP:H	1:15:B:SER:HA	4	0.25
(2,852)	1:66:B:PHE:H	1:64:B:TYR:HB3	9	0.25
(2,852)	1:66:B:PHE:H	1:64:B:TYR:HB3	22	0.25
(2,848)	1:66:B:PHE:H	1:66:B:PHE:HD1	13	0.25
(2,848)	1:66:B:PHE:H	1:66:B:PHE:HD2	13	0.25
(2,847)	1:58:B:VAL:H	1:61:B:GLU:HB3	5	0.25
(2,724)	1:38:B:ALA:H	1:37:B:LYS:HB2	3	0.25
(2,724)	1:38:B:ALA:H	1:37:B:LYS:HB2	25	0.25
(2,715)	1:7:B:GLU:HA	1:7:B:GLU:HG3	13	0.25
(2,704)	1:35:B:GLN:HG2	1:35:B:GLN:H	5	0.25
(2,661)	1:13:B:ILE:HA	1:13:B:ILE:HG13	14	0.25
(2,661)	1:13:B:ILE:HA	1:13:B:ILE:HG13	20	0.25
(2,532)	1:93:B:GLN:H	1:93:B:GLN:HB3	10	0.25
(2,464)	1:70:B:SER:HB3	1:69:B:LYS:HB3	21	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,410)	1:89:B:ILE:H	1:88:B:TYR:HD1	17	0.25
(2,410)	1:89:B:ILE:H	1:88:B:TYR:HD2	17	0.25
(2,402)	1:44:B:GLY:H	1:43:B:ALA:HA	2	0.25
(2,402)	1:44:B:GLY:H	1:43:B:ALA:HA	9	0.25
(2,402)	1:44:B:GLY:H	1:43:B:ALA:HA	11	0.25
(2,402)	1:44:B:GLY:H	1:43:B:ALA:HA	21	0.25
(2,354)	1:56:B:ILE:HB	1:66:B:PHE:HZ	20	0.25
(2,305)	1:63:B:VAL:H	1:58:B:VAL:H	13	0.25
(2,291)	1:67:B:ASN:H	1:67:B:ASN:HD22	19	0.25
(2,289)	1:47:B:ILE:H	1:47:B:ILE:HD11	20	0.25
(2,289)	1:47:B:ILE:H	1:47:B:ILE:HD12	20	0.25
(2,289)	1:47:B:ILE:H	1:47:B:ILE:HD13	20	0.25
(2,281)	1:38:B:ALA:H	1:37:B:LYS:HB3	1	0.25
(2,272)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	1	0.25
(2,272)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	11	0.25
(2,272)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	13	0.25
(2,174)	1:14:B:ASN:H	1:13:B:ILE:HB	9	0.25
(2,70)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	2	0.25
(2,70)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	14	0.25
(2,25)	1:85:B:LYS:H	1:84:B:ILE:HG12	2	0.25
(1,99)	1:78:B:ASP:H	1:74:B:ASN:O	24	0.25
(1,91)	1:58:B:VAL:H	1:62:B:LYS:O	16	0.25
(1,79)	1:35:B:GLN:H	1:32:B:ASN:O	22	0.25
(1,60)	1:15:B:SER:H	1:11:B:ASN:O	18	0.25
(1,52)	1:78:B:ASP:H	1:74:B:ASN:O	24	0.25
(1,44)	1:58:B:VAL:H	1:62:B:LYS:O	16	0.25
(1,32)	1:35:B:GLN:H	1:32:B:ASN:O	22	0.25
(1,13)	1:15:B:SER:H	1:11:B:ASN:O	18	0.25
(2,2883)	1:71:B:THR:H	1:71:B:THR:HB	24	0.24
(2,2864)	1:33:B:GLY:HA2	1:86:B:GLY:HA3	22	0.24
(2,2862)	1:82:B:LEU:HG	1:84:B:ILE:HA	22	0.24
(2,2848)	1:49:B:TYR:HA	1:52:B:LYS:HE3	20	0.24
(2,2841)	1:45:B:TYR:HB2	1:24:B:LYS:HB2	16	0.24
(2,2820)	1:87:B:MET:HG2	1:87:B:MET:H	25	0.24
(2,2816)	1:77:B:ASN:HB3	1:76:B:SER:H	2	0.24
(2,2800)	1:48:B:SER:H	1:47:B:ILE:HG12	3	0.24
(2,2791)	1:12:B:SER:H	1:13:B:ILE:HA	3	0.24
(2,2791)	1:12:B:SER:H	1:13:B:ILE:HA	22	0.24
(2,2790)	1:8:B:GLU:H	1:8:B:GLU:HA	12	0.24
(2,2790)	1:8:B:GLU:H	1:8:B:GLU:HA	13	0.24
(2,2790)	1:8:B:GLU:H	1:8:B:GLU:HA	24	0.24
(2,2718)	1:59:B:ASN:HD22	1:59:B:ASN:HB3	8	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2718)	1:59:B:ASN:HD22	1:59:B:ASN:HB3	20	0.24
(2,2710)	1:67:B:ASN:HB3	1:67:B:ASN:HD22	20	0.24
(2,2702)	1:25:B:GLY:HA3	1:45:B:TYR:HB2	4	0.24
(2,2702)	1:25:B:GLY:HA3	1:45:B:TYR:HB2	21	0.24
(2,2595)	1:27:B:LEU:H	1:27:B:LEU:HB2	3	0.24
(2,2595)	1:27:B:LEU:H	1:27:B:LEU:HB2	14	0.24
(2,2595)	1:27:B:LEU:H	1:27:B:LEU:HB2	20	0.24
(2,2595)	1:27:B:LEU:H	1:27:B:LEU:HB2	24	0.24
(2,2579)	1:57:B:PHE:HB2	1:60:B:GLY:H	10	0.24
(2,2579)	1:57:B:PHE:HB2	1:60:B:GLY:H	15	0.24
(2,2549)	1:47:B:ILE:HB	1:48:B:SER:H	21	0.24
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD1	23	0.24
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD2	23	0.24
(2,2284)	1:66:B:PHE:H	1:64:B:TYR:HB3	19	0.24
(2,2284)	1:66:B:PHE:H	1:64:B:TYR:HB3	21	0.24
(2,2280)	1:66:B:PHE:H	1:66:B:PHE:HD1	16	0.24
(2,2280)	1:66:B:PHE:H	1:66:B:PHE:HD2	16	0.24
(2,2280)	1:66:B:PHE:H	1:66:B:PHE:HD1	20	0.24
(2,2280)	1:66:B:PHE:H	1:66:B:PHE:HD2	20	0.24
(2,2279)	1:58:B:VAL:H	1:61:B:GLU:HB3	12	0.24
(2,2156)	1:38:B:ALA:H	1:37:B:LYS:HB2	8	0.24
(2,2156)	1:38:B:ALA:H	1:37:B:LYS:HB2	11	0.24
(2,2156)	1:38:B:ALA:H	1:37:B:LYS:HB2	12	0.24
(2,2136)	1:35:B:GLN:HG2	1:35:B:GLN:H	20	0.24
(2,2053)	1:86:B:GLY:H	1:87:B:MET:HB2	7	0.24
(2,1981)	1:58:B:VAL:H	1:61:B:GLU:HB2	2	0.24
(2,1981)	1:58:B:VAL:H	1:61:B:GLU:HB2	19	0.24
(2,1873)	1:41:B:SER:H	1:26:B:LYS:HB3	4	0.24
(2,1873)	1:41:B:SER:H	1:26:B:LYS:HB3	6	0.24
(2,1873)	1:41:B:SER:H	1:26:B:LYS:HB3	18	0.24
(2,1860)	1:13:B:ILE:HB	1:13:B:ILE:H	15	0.24
(2,1860)	1:13:B:ILE:HB	1:13:B:ILE:H	22	0.24
(2,1849)	1:41:B:SER:HB2	1:41:B:SER:HA	7	0.24
(2,1832)	1:10:B:MET:HA	1:10:B:MET:HB2	25	0.24
(2,1737)	1:63:B:VAL:H	1:58:B:VAL:H	11	0.24
(2,1723)	1:67:B:ASN:H	1:67:B:ASN:HD22	8	0.24
(2,1723)	1:67:B:ASN:H	1:67:B:ASN:HD22	9	0.24
(2,1723)	1:67:B:ASN:H	1:67:B:ASN:HD22	10	0.24
(2,1713)	1:38:B:ALA:H	1:37:B:LYS:HB3	2	0.24
(2,1713)	1:38:B:ALA:H	1:37:B:LYS:HB3	7	0.24
(2,1704)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	3	0.24
(2,1704)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	14	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1704)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	16	0.24
(2,1704)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	21	0.24
(2,1704)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	22	0.24
(2,1704)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	23	0.24
(2,1530)	1:30:B:SER:HB2	1:30:B:SER:HA	1	0.24
(2,1530)	1:30:B:SER:HB2	1:30:B:SER:HA	9	0.24
(2,1502)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	4	0.24
(2,1502)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	11	0.24
(2,1494)	1:27:B:LEU:H	1:26:B:LYS:HB3	5	0.24
(2,1494)	1:27:B:LEU:H	1:26:B:LYS:HB3	9	0.24
(2,1494)	1:27:B:LEU:H	1:26:B:LYS:HB3	14	0.24
(2,1465)	1:87:B:MET:HG3	1:87:B:MET:H	12	0.24
(2,1465)	1:87:B:MET:HG3	1:87:B:MET:H	16	0.24
(2,1457)	1:85:B:LYS:H	1:84:B:ILE:HG12	25	0.24
(2,1452)	1:71:B:THR:H	1:71:B:THR:HB	24	0.24
(2,1433)	1:33:B:GLY:HA2	1:86:B:GLY:HA3	22	0.24
(2,1431)	1:82:B:LEU:HG	1:84:B:ILE:HA	22	0.24
(2,1416)	1:49:B:TYR:HA	1:52:B:LYS:HE3	20	0.24
(2,1409)	1:45:B:TYR:HB2	1:24:B:LYS:HB2	16	0.24
(2,1388)	1:87:B:MET:HG2	1:87:B:MET:H	25	0.24
(2,1384)	1:77:B:ASN:HB3	1:76:B:SER:H	2	0.24
(2,1368)	1:48:B:SER:H	1:47:B:ILE:HG12	3	0.24
(2,1359)	1:12:B:SER:H	1:13:B:ILE:HA	3	0.24
(2,1359)	1:12:B:SER:H	1:13:B:ILE:HA	22	0.24
(2,1358)	1:8:B:GLU:H	1:8:B:GLU:HA	12	0.24
(2,1358)	1:8:B:GLU:H	1:8:B:GLU:HA	13	0.24
(2,1358)	1:8:B:GLU:H	1:8:B:GLU:HA	24	0.24
(2,1286)	1:59:B:ASN:HD22	1:59:B:ASN:HB3	8	0.24
(2,1286)	1:59:B:ASN:HD22	1:59:B:ASN:HB3	20	0.24
(2,1278)	1:67:B:ASN:HB3	1:67:B:ASN:HD22	20	0.24
(2,1270)	1:25:B:GLY:HA3	1:45:B:TYR:HB2	4	0.24
(2,1270)	1:25:B:GLY:HA3	1:45:B:TYR:HB2	21	0.24
(2,1163)	1:27:B:LEU:H	1:27:B:LEU:HB2	3	0.24
(2,1163)	1:27:B:LEU:H	1:27:B:LEU:HB2	14	0.24
(2,1163)	1:27:B:LEU:H	1:27:B:LEU:HB2	20	0.24
(2,1163)	1:27:B:LEU:H	1:27:B:LEU:HB2	24	0.24
(2,1147)	1:57:B:PHE:HB2	1:60:B:GLY:H	10	0.24
(2,1147)	1:57:B:PHE:HB2	1:60:B:GLY:H	15	0.24
(2,1117)	1:47:B:ILE:HB	1:48:B:SER:H	21	0.24
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD1	23	0.24
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD2	23	0.24
(2,852)	1:66:B:PHE:H	1:64:B:TYR:HB3	19	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,852)	1:66:B:PHE:H	1:64:B:TYR:HB3	21	0.24
(2,848)	1:66:B:PHE:H	1:66:B:PHE:HD1	16	0.24
(2,848)	1:66:B:PHE:H	1:66:B:PHE:HD2	16	0.24
(2,848)	1:66:B:PHE:H	1:66:B:PHE:HD1	20	0.24
(2,848)	1:66:B:PHE:H	1:66:B:PHE:HD2	20	0.24
(2,847)	1:58:B:VAL:H	1:61:B:GLU:HB3	12	0.24
(2,724)	1:38:B:ALA:H	1:37:B:LYS:HB2	8	0.24
(2,724)	1:38:B:ALA:H	1:37:B:LYS:HB2	11	0.24
(2,724)	1:38:B:ALA:H	1:37:B:LYS:HB2	12	0.24
(2,704)	1:35:B:GLN:HG2	1:35:B:GLN:H	20	0.24
(2,621)	1:86:B:GLY:H	1:87:B:MET:HB2	7	0.24
(2,549)	1:58:B:VAL:H	1:61:B:GLU:HB2	2	0.24
(2,549)	1:58:B:VAL:H	1:61:B:GLU:HB2	19	0.24
(2,441)	1:41:B:SER:H	1:26:B:LYS:HB3	4	0.24
(2,441)	1:41:B:SER:H	1:26:B:LYS:HB3	6	0.24
(2,441)	1:41:B:SER:H	1:26:B:LYS:HB3	18	0.24
(2,428)	1:13:B:ILE:HB	1:13:B:ILE:H	15	0.24
(2,428)	1:13:B:ILE:HB	1:13:B:ILE:H	22	0.24
(2,417)	1:41:B:SER:HB2	1:41:B:SER:HA	7	0.24
(2,400)	1:10:B:MET:HA	1:10:B:MET:HB2	25	0.24
(2,305)	1:63:B:VAL:H	1:58:B:VAL:H	11	0.24
(2,291)	1:67:B:ASN:H	1:67:B:ASN:HD22	8	0.24
(2,291)	1:67:B:ASN:H	1:67:B:ASN:HD22	9	0.24
(2,291)	1:67:B:ASN:H	1:67:B:ASN:HD22	10	0.24
(2,281)	1:38:B:ALA:H	1:37:B:LYS:HB3	2	0.24
(2,281)	1:38:B:ALA:H	1:37:B:LYS:HB3	7	0.24
(2,272)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	3	0.24
(2,272)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	14	0.24
(2,272)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	16	0.24
(2,272)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	21	0.24
(2,272)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	22	0.24
(2,272)	1:77:B:ASN:HB3	1:77:B:ASN:HD22	23	0.24
(2,98)	1:30:B:SER:HB2	1:30:B:SER:HA	1	0.24
(2,98)	1:30:B:SER:HB2	1:30:B:SER:HA	9	0.24
(2,70)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	4	0.24
(2,70)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	11	0.24
(2,62)	1:27:B:LEU:H	1:26:B:LYS:HB3	5	0.24
(2,62)	1:27:B:LEU:H	1:26:B:LYS:HB3	9	0.24
(2,62)	1:27:B:LEU:H	1:26:B:LYS:HB3	14	0.24
(2,33)	1:87:B:MET:HG3	1:87:B:MET:H	12	0.24
(2,33)	1:87:B:MET:HG3	1:87:B:MET:H	16	0.24
(2,25)	1:85:B:LYS:H	1:84:B:ILE:HG12	25	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,99)	1:78:B:ASP:H	1:74:B:ASN:O	14	0.24
(1,91)	1:58:B:VAL:H	1:62:B:LYS:O	9	0.24
(1,91)	1:58:B:VAL:H	1:62:B:LYS:O	22	0.24
(1,52)	1:78:B:ASP:H	1:74:B:ASN:O	14	0.24
(1,44)	1:58:B:VAL:H	1:62:B:LYS:O	9	0.24
(1,44)	1:58:B:VAL:H	1:62:B:LYS:O	22	0.24
(2,2884)	1:26:B:LYS:HG2	1:26:B:LYS:H	8	0.23
(2,2884)	1:26:B:LYS:HG2	1:26:B:LYS:H	12	0.23
(2,2863)	1:33:B:GLY:HA3	1:86:B:GLY:HA3	13	0.23
(2,2863)	1:33:B:GLY:HA3	1:86:B:GLY:HA3	17	0.23
(2,2800)	1:48:B:SER:H	1:47:B:ILE:HG12	14	0.23
(2,2800)	1:48:B:SER:H	1:47:B:ILE:HG12	16	0.23
(2,2793)	1:57:B:PHE:HA	1:57:B:PHE:HD1	1	0.23
(2,2793)	1:57:B:PHE:HA	1:57:B:PHE:HD2	1	0.23
(2,2791)	1:12:B:SER:H	1:13:B:ILE:HA	1	0.23
(2,2790)	1:8:B:GLU:H	1:8:B:GLU:HA	22	0.23
(2,2789)	1:11:B:ASN:H	1:11:B:ASN:HA	3	0.23
(2,2770)	1:41:B:SER:HB3	1:26:B:LYS:H	14	0.23
(2,2727)	1:49:B:TYR:H	1:49:B:TYR:HD1	2	0.23
(2,2727)	1:49:B:TYR:H	1:49:B:TYR:HD2	2	0.23
(2,2727)	1:49:B:TYR:H	1:49:B:TYR:HD1	15	0.23
(2,2727)	1:49:B:TYR:H	1:49:B:TYR:HD2	15	0.23
(2,2721)	1:90:B:GLU:HG3	1:88:B:TYR:HE1	23	0.23
(2,2721)	1:90:B:GLU:HG3	1:88:B:TYR:HE2	23	0.23
(2,2710)	1:67:B:ASN:HB3	1:67:B:ASN:HD22	23	0.23
(2,2702)	1:25:B:GLY:HA3	1:45:B:TYR:HB2	14	0.23
(2,2595)	1:27:B:LEU:H	1:27:B:LEU:HB2	17	0.23
(2,2595)	1:27:B:LEU:H	1:27:B:LEU:HB2	19	0.23
(2,2579)	1:57:B:PHE:HB2	1:60:B:GLY:H	22	0.23
(2,2569)	1:35:B:GLN:H	1:33:B:GLY:HA3	12	0.23
(2,2551)	1:39:B:THR:H	1:39:B:THR:HB	18	0.23
(2,2456)	1:85:B:LYS:HG3	1:85:B:LYS:H	2	0.23
(2,2346)	1:55:B:GLY:H	1:54:B:TRP:HB2	21	0.23
(2,2346)	1:55:B:GLY:H	1:54:B:TRP:HB2	22	0.23
(2,2344)	1:80:B:ASN:H	1:77:B:ASN:HA	4	0.23
(2,2281)	1:24:B:LYS:H	1:23:B:GLY:H	18	0.23
(2,2258)	1:73:B:GLY:H	1:74:B:ASN:HB3	5	0.23
(2,2156)	1:38:B:ALA:H	1:37:B:LYS:HB2	6	0.23
(2,2156)	1:38:B:ALA:H	1:37:B:LYS:HB2	13	0.23
(2,2156)	1:38:B:ALA:H	1:37:B:LYS:HB2	17	0.23
(2,2152)	1:40:B:SER:HB3	1:27:B:LEU:HB3	6	0.23
(2,2152)	1:40:B:SER:HB3	1:27:B:LEU:HB3	23	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2147)	1:7:B:GLU:HA	1:7:B:GLU:HG3	25	0.23
(2,2093)	1:13:B:ILE:HA	1:13:B:ILE:HG13	11	0.23
(2,2076)	1:88:B:TYR:HD1	1:89:B:ILE:HA	9	0.23
(2,2076)	1:88:B:TYR:HD2	1:89:B:ILE:HA	9	0.23
(2,2076)	1:88:B:TYR:HD1	1:89:B:ILE:HA	24	0.23
(2,2076)	1:88:B:TYR:HD2	1:89:B:ILE:HA	24	0.23
(2,2053)	1:86:B:GLY:H	1:87:B:MET:HB2	2	0.23
(2,1989)	1:20:B:LEU:HB3	1:54:B:TRP:HZ2	2	0.23
(2,1989)	1:20:B:LEU:HB3	1:54:B:TRP:HZ2	6	0.23
(2,1860)	1:13:B:ILE:HB	1:13:B:ILE:H	23	0.23
(2,1860)	1:13:B:ILE:HB	1:13:B:ILE:H	25	0.23
(2,1834)	1:44:B:GLY:H	1:43:B:ALA:HA	10	0.23
(2,1834)	1:44:B:GLY:H	1:43:B:ALA:HA	23	0.23
(2,1832)	1:10:B:MET:HA	1:10:B:MET:HB2	21	0.23
(2,1753)	1:29:B:LEU:HB2	1:38:B:ALA:HA	23	0.23
(2,1723)	1:67:B:ASN:H	1:67:B:ASN:HD22	23	0.23
(2,1713)	1:38:B:ALA:H	1:37:B:LYS:HB3	24	0.23
(2,1530)	1:30:B:SER:HB2	1:30:B:SER:HA	4	0.23
(2,1502)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	1	0.23
(2,1502)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	13	0.23
(2,1457)	1:85:B:LYS:H	1:84:B:ILE:HG12	7	0.23
(2,1453)	1:26:B:LYS:HG2	1:26:B:LYS:H	8	0.23
(2,1453)	1:26:B:LYS:HG2	1:26:B:LYS:H	12	0.23
(2,1432)	1:33:B:GLY:HA3	1:86:B:GLY:HA3	13	0.23
(2,1432)	1:33:B:GLY:HA3	1:86:B:GLY:HA3	17	0.23
(2,1368)	1:48:B:SER:H	1:47:B:ILE:HG12	14	0.23
(2,1368)	1:48:B:SER:H	1:47:B:ILE:HG12	16	0.23
(2,1361)	1:57:B:PHE:HA	1:57:B:PHE:HD1	1	0.23
(2,1361)	1:57:B:PHE:HA	1:57:B:PHE:HD2	1	0.23
(2,1359)	1:12:B:SER:H	1:13:B:ILE:HA	1	0.23
(2,1358)	1:8:B:GLU:H	1:8:B:GLU:HA	22	0.23
(2,1357)	1:11:B:ASN:H	1:11:B:ASN:HA	3	0.23
(2,1338)	1:41:B:SER:HB3	1:26:B:LYS:H	14	0.23
(2,1295)	1:49:B:TYR:H	1:49:B:TYR:HD1	2	0.23
(2,1295)	1:49:B:TYR:H	1:49:B:TYR:HD2	2	0.23
(2,1295)	1:49:B:TYR:H	1:49:B:TYR:HD1	15	0.23
(2,1295)	1:49:B:TYR:H	1:49:B:TYR:HD2	15	0.23
(2,1289)	1:90:B:GLU:HG3	1:88:B:TYR:HE1	23	0.23
(2,1289)	1:90:B:GLU:HG3	1:88:B:TYR:HE2	23	0.23
(2,1278)	1:67:B:ASN:HB3	1:67:B:ASN:HD22	23	0.23
(2,1270)	1:25:B:GLY:HA3	1:45:B:TYR:HB2	14	0.23
(2,1163)	1:27:B:LEU:H	1:27:B:LEU:HB2	17	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1163)	1:27:B:LEU:H	1:27:B:LEU:HB2	19	0.23
(2,1147)	1:57:B:PHE:HB2	1:60:B:GLY:H	22	0.23
(2,1137)	1:35:B:GLN:H	1:33:B:GLY:HA3	12	0.23
(2,1119)	1:39:B:THR:H	1:39:B:THR:HB	18	0.23
(2,1024)	1:85:B:LYS:HG3	1:85:B:LYS:H	2	0.23
(2,914)	1:55:B:GLY:H	1:54:B:TRP:HB2	21	0.23
(2,914)	1:55:B:GLY:H	1:54:B:TRP:HB2	22	0.23
(2,912)	1:80:B:ASN:H	1:77:B:ASN:HA	4	0.23
(2,849)	1:24:B:LYS:H	1:23:B:GLY:H	18	0.23
(2,826)	1:73:B:GLY:H	1:74:B:ASN:HB3	5	0.23
(2,724)	1:38:B:ALA:H	1:37:B:LYS:HB2	6	0.23
(2,724)	1:38:B:ALA:H	1:37:B:LYS:HB2	13	0.23
(2,724)	1:38:B:ALA:H	1:37:B:LYS:HB2	17	0.23
(2,720)	1:40:B:SER:HB3	1:27:B:LEU:HB3	6	0.23
(2,720)	1:40:B:SER:HB3	1:27:B:LEU:HB3	23	0.23
(2,715)	1:7:B:GLU:HA	1:7:B:GLU:HG3	25	0.23
(2,661)	1:13:B:ILE:HA	1:13:B:ILE:HG13	11	0.23
(2,644)	1:88:B:TYR:HD1	1:89:B:ILE:HA	9	0.23
(2,644)	1:88:B:TYR:HD2	1:89:B:ILE:HA	9	0.23
(2,644)	1:88:B:TYR:HD1	1:89:B:ILE:HA	24	0.23
(2,644)	1:88:B:TYR:HD2	1:89:B:ILE:HA	24	0.23
(2,621)	1:86:B:GLY:H	1:87:B:MET:HB2	2	0.23
(2,557)	1:20:B:LEU:HB3	1:54:B:TRP:HZ2	2	0.23
(2,557)	1:20:B:LEU:HB3	1:54:B:TRP:HZ2	6	0.23
(2,428)	1:13:B:ILE:HB	1:13:B:ILE:H	23	0.23
(2,428)	1:13:B:ILE:HB	1:13:B:ILE:H	25	0.23
(2,402)	1:44:B:GLY:H	1:43:B:ALA:HA	10	0.23
(2,402)	1:44:B:GLY:H	1:43:B:ALA:HA	23	0.23
(2,400)	1:10:B:MET:HA	1:10:B:MET:HB2	21	0.23
(2,321)	1:29:B:LEU:HB2	1:38:B:ALA:HA	23	0.23
(2,291)	1:67:B:ASN:H	1:67:B:ASN:HD22	23	0.23
(2,281)	1:38:B:ALA:H	1:37:B:LYS:HB3	24	0.23
(2,98)	1:30:B:SER:HB2	1:30:B:SER:HA	4	0.23
(2,70)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	1	0.23
(2,70)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	13	0.23
(2,25)	1:85:B:LYS:H	1:84:B:ILE:HG12	7	0.23
(1,99)	1:78:B:ASP:H	1:74:B:ASN:O	23	0.23
(1,86)	1:66:B:PHE:H	1:54:B:TRP:O	23	0.23
(1,52)	1:78:B:ASP:H	1:74:B:ASN:O	23	0.23
(1,39)	1:66:B:PHE:H	1:54:B:TRP:O	23	0.23
(2,2880)	1:43:B:ALA:H	1:41:B:SER:HA	1	0.22
(2,2863)	1:33:B:GLY:HA3	1:86:B:GLY:HA3	19	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2862)	1:82:B:LEU:HG	1:84:B:ILE:HA	25	0.22
(2,2791)	1:12:B:SER:H	1:13:B:ILE:HA	14	0.22
(2,2790)	1:8:B:GLU:H	1:8:B:GLU:HA	10	0.22
(2,2766)	1:27:B:LEU:H	1:27:B:LEU:HG	24	0.22
(2,2727)	1:49:B:TYR:H	1:49:B:TYR:HD1	7	0.22
(2,2727)	1:49:B:TYR:H	1:49:B:TYR:HD2	7	0.22
(2,2723)	1:84:B:ILE:H	1:84:B:ILE:HG12	20	0.22
(2,2641)	1:85:B:LYS:H	1:84:B:ILE:HA	20	0.22
(2,2630)	1:91:B:ILE:H	1:90:B:GLU:HB2	24	0.22
(2,2608)	1:22:B:LYS:H	1:21:B:ASN:H	23	0.22
(2,2595)	1:27:B:LEU:H	1:27:B:LEU:HB2	5	0.22
(2,2595)	1:27:B:LEU:H	1:27:B:LEU:HB2	6	0.22
(2,2595)	1:27:B:LEU:H	1:27:B:LEU:HB2	9	0.22
(2,2580)	1:75:B:ILE:H	1:74:B:ASN:HB3	10	0.22
(2,2559)	1:83:B:ASN:HB2	1:83:B:ASN:H	22	0.22
(2,2551)	1:39:B:THR:H	1:39:B:THR:HB	17	0.22
(2,2551)	1:39:B:THR:H	1:39:B:THR:HB	22	0.22
(2,2536)	1:64:B:TYR:H	1:63:B:VAL:H	14	0.22
(2,2530)	1:56:B:ILE:H	1:56:B:ILE:HG12	13	0.22
(2,2362)	1:4:B:LYS:H	1:4:B:LYS:HG3	16	0.22
(2,2362)	1:4:B:LYS:H	1:4:B:LYS:HG3	23	0.22
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD1	19	0.22
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD2	19	0.22
(2,2346)	1:55:B:GLY:H	1:54:B:TRP:HB2	13	0.22
(2,2325)	1:60:B:GLY:H	1:59:B:ASN:HB3	7	0.22
(2,2280)	1:66:B:PHE:H	1:66:B:PHE:HD1	24	0.22
(2,2280)	1:66:B:PHE:H	1:66:B:PHE:HD2	24	0.22
(2,2279)	1:58:B:VAL:H	1:61:B:GLU:HB3	2	0.22
(2,2279)	1:58:B:VAL:H	1:61:B:GLU:HB3	25	0.22
(2,2257)	1:46:B:GLY:H	1:47:B:ILE:HD11	25	0.22
(2,2257)	1:46:B:GLY:H	1:47:B:ILE:HD12	25	0.22
(2,2257)	1:46:B:GLY:H	1:47:B:ILE:HD13	25	0.22
(2,2229)	1:94:B:ILE:H	1:94:B:ILE:HG13	7	0.22
(2,2156)	1:38:B:ALA:H	1:37:B:LYS:HB2	9	0.22
(2,2152)	1:40:B:SER:HB3	1:27:B:LEU:HB3	1	0.22
(2,2152)	1:40:B:SER:HB3	1:27:B:LEU:HB3	2	0.22
(2,2120)	1:77:B:ASN:HB2	1:77:B:ASN:HD22	21	0.22
(2,2085)	1:62:B:LYS:HB3	1:62:B:LYS:H	12	0.22
(2,1982)	1:35:B:GLN:H	1:31:B:MET:HA	11	0.22
(2,1981)	1:58:B:VAL:H	1:61:B:GLU:HB2	8	0.22
(2,1849)	1:41:B:SER:HB2	1:41:B:SER:HA	4	0.22
(2,1832)	1:10:B:MET:HA	1:10:B:MET:HB2	20	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1827)	1:88:B:TYR:HB2	1:59:B:ASN:H	14	0.22
(2,1803)	1:89:B:ILE:HB	1:88:B:TYR:HA	6	0.22
(2,1803)	1:89:B:ILE:HB	1:88:B:TYR:HA	8	0.22
(2,1786)	1:56:B:ILE:HB	1:66:B:PHE:HZ	10	0.22
(2,1744)	1:86:B:GLY:H	1:85:B:LYS:HB3	22	0.22
(2,1737)	1:63:B:VAL:H	1:58:B:VAL:H	15	0.22
(2,1737)	1:63:B:VAL:H	1:58:B:VAL:H	16	0.22
(2,1727)	1:13:B:ILE:HA	1:13:B:ILE:HD11	6	0.22
(2,1727)	1:13:B:ILE:HA	1:13:B:ILE:HD12	6	0.22
(2,1727)	1:13:B:ILE:HA	1:13:B:ILE:HD13	6	0.22
(2,1727)	1:13:B:ILE:HA	1:13:B:ILE:HD11	25	0.22
(2,1727)	1:13:B:ILE:HA	1:13:B:ILE:HD12	25	0.22
(2,1727)	1:13:B:ILE:HA	1:13:B:ILE:HD13	25	0.22
(2,1713)	1:38:B:ALA:H	1:37:B:LYS:HB3	9	0.22
(2,1713)	1:38:B:ALA:H	1:37:B:LYS:HB3	23	0.22
(2,1582)	1:37:B:LYS:HG3	1:35:B:GLN:HB3	22	0.22
(2,1568)	1:29:B:LEU:H	1:17:B:ASN:HD21	5	0.22
(2,1532)	1:82:B:LEU:H	1:82:B:LEU:HG	21	0.22
(2,1530)	1:30:B:SER:HB2	1:30:B:SER:HA	3	0.22
(2,1530)	1:30:B:SER:HB2	1:30:B:SER:HA	15	0.22
(2,1530)	1:30:B:SER:HB2	1:30:B:SER:HA	25	0.22
(2,1494)	1:27:B:LEU:H	1:26:B:LYS:HB3	13	0.22
(2,1465)	1:87:B:MET:HG3	1:87:B:MET:H	24	0.22
(2,1457)	1:85:B:LYS:H	1:84:B:ILE:HG12	6	0.22
(2,1449)	1:43:B:ALA:H	1:41:B:SER:HA	1	0.22
(2,1432)	1:33:B:GLY:HA3	1:86:B:GLY:HA3	19	0.22
(2,1431)	1:82:B:LEU:HG	1:84:B:ILE:HA	25	0.22
(2,1359)	1:12:B:SER:H	1:13:B:ILE:HA	14	0.22
(2,1358)	1:8:B:GLU:H	1:8:B:GLU:HA	10	0.22
(2,1334)	1:27:B:LEU:H	1:27:B:LEU:HG	24	0.22
(2,1295)	1:49:B:TYR:H	1:49:B:TYR:HD1	7	0.22
(2,1295)	1:49:B:TYR:H	1:49:B:TYR:HD2	7	0.22
(2,1291)	1:84:B:ILE:H	1:84:B:ILE:HG12	20	0.22
(2,1209)	1:85:B:LYS:H	1:84:B:ILE:HA	20	0.22
(2,1198)	1:91:B:ILE:H	1:90:B:GLU:HB2	24	0.22
(2,1176)	1:22:B:LYS:H	1:21:B:ASN:H	23	0.22
(2,1163)	1:27:B:LEU:H	1:27:B:LEU:HB2	5	0.22
(2,1163)	1:27:B:LEU:H	1:27:B:LEU:HB2	6	0.22
(2,1163)	1:27:B:LEU:H	1:27:B:LEU:HB2	9	0.22
(2,1148)	1:75:B:ILE:H	1:74:B:ASN:HB3	10	0.22
(2,1127)	1:83:B:ASN:HB2	1:83:B:ASN:H	22	0.22
(2,1119)	1:39:B:THR:H	1:39:B:THR:HB	17	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1119)	1:39:B:THR:H	1:39:B:THR:HB	22	0.22
(2,1104)	1:64:B:TYR:H	1:63:B:VAL:H	14	0.22
(2,1098)	1:56:B:ILE:H	1:56:B:ILE:HG12	13	0.22
(2,930)	1:4:B:LYS:H	1:4:B:LYS:HG3	16	0.22
(2,930)	1:4:B:LYS:H	1:4:B:LYS:HG3	23	0.22
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD1	19	0.22
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD2	19	0.22
(2,914)	1:55:B:GLY:H	1:54:B:TRP:HB2	13	0.22
(2,893)	1:60:B:GLY:H	1:59:B:ASN:HB3	7	0.22
(2,848)	1:66:B:PHE:H	1:66:B:PHE:HD1	24	0.22
(2,848)	1:66:B:PHE:H	1:66:B:PHE:HD2	24	0.22
(2,847)	1:58:B:VAL:H	1:61:B:GLU:HB3	2	0.22
(2,847)	1:58:B:VAL:H	1:61:B:GLU:HB3	25	0.22
(2,825)	1:46:B:GLY:H	1:47:B:ILE:HD11	25	0.22
(2,825)	1:46:B:GLY:H	1:47:B:ILE:HD12	25	0.22
(2,825)	1:46:B:GLY:H	1:47:B:ILE:HD13	25	0.22
(2,797)	1:94:B:ILE:H	1:94:B:ILE:HG13	7	0.22
(2,724)	1:38:B:ALA:H	1:37:B:LYS:HB2	9	0.22
(2,720)	1:40:B:SER:HB3	1:27:B:LEU:HB3	1	0.22
(2,720)	1:40:B:SER:HB3	1:27:B:LEU:HB3	2	0.22
(2,688)	1:77:B:ASN:HB2	1:77:B:ASN:HD22	21	0.22
(2,653)	1:62:B:LYS:HB3	1:62:B:LYS:H	12	0.22
(2,550)	1:35:B:GLN:H	1:31:B:MET:HA	11	0.22
(2,549)	1:58:B:VAL:H	1:61:B:GLU:HB2	8	0.22
(2,417)	1:41:B:SER:HB2	1:41:B:SER:HA	4	0.22
(2,400)	1:10:B:MET:HA	1:10:B:MET:HB2	20	0.22
(2,395)	1:88:B:TYR:HB2	1:59:B:ASN:H	14	0.22
(2,371)	1:89:B:ILE:HB	1:88:B:TYR:HA	6	0.22
(2,371)	1:89:B:ILE:HB	1:88:B:TYR:HA	8	0.22
(2,354)	1:56:B:ILE:HB	1:66:B:PHE:HZ	10	0.22
(2,312)	1:86:B:GLY:H	1:85:B:LYS:HB3	22	0.22
(2,305)	1:63:B:VAL:H	1:58:B:VAL:H	15	0.22
(2,305)	1:63:B:VAL:H	1:58:B:VAL:H	16	0.22
(2,295)	1:13:B:ILE:HA	1:13:B:ILE:HD11	6	0.22
(2,295)	1:13:B:ILE:HA	1:13:B:ILE:HD12	6	0.22
(2,295)	1:13:B:ILE:HA	1:13:B:ILE:HD13	6	0.22
(2,295)	1:13:B:ILE:HA	1:13:B:ILE:HD11	25	0.22
(2,295)	1:13:B:ILE:HA	1:13:B:ILE:HD12	25	0.22
(2,295)	1:13:B:ILE:HA	1:13:B:ILE:HD13	25	0.22
(2,281)	1:38:B:ALA:H	1:37:B:LYS:HB3	9	0.22
(2,281)	1:38:B:ALA:H	1:37:B:LYS:HB3	23	0.22
(2,150)	1:37:B:LYS:HG3	1:35:B:GLN:HB3	22	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,136)	1:29:B:LEU:H	1:17:B:ASN:HD21	5	0.22
(2,100)	1:82:B:LEU:H	1:82:B:LEU:HG	21	0.22
(2,98)	1:30:B:SER:HB2	1:30:B:SER:HA	3	0.22
(2,98)	1:30:B:SER:HB2	1:30:B:SER:HA	15	0.22
(2,98)	1:30:B:SER:HB2	1:30:B:SER:HA	25	0.22
(2,62)	1:27:B:LEU:H	1:26:B:LYS:HB3	13	0.22
(2,33)	1:87:B:MET:HG3	1:87:B:MET:H	24	0.22
(2,25)	1:85:B:LYS:H	1:84:B:ILE:HG12	6	0.22
(1,99)	1:78:B:ASP:H	1:74:B:ASN:O	8	0.22
(1,91)	1:58:B:VAL:H	1:62:B:LYS:O	7	0.22
(1,86)	1:66:B:PHE:H	1:54:B:TRP:O	25	0.22
(1,52)	1:78:B:ASP:H	1:74:B:ASN:O	8	0.22
(1,44)	1:58:B:VAL:H	1:62:B:LYS:O	7	0.22
(1,39)	1:66:B:PHE:H	1:54:B:TRP:O	25	0.22
(2,2864)	1:33:B:GLY:HA2	1:86:B:GLY:HA3	21	0.21
(2,2863)	1:33:B:GLY:HA3	1:86:B:GLY:HA3	6	0.21
(2,2848)	1:49:B:TYR:HA	1:52:B:LYS:HE3	25	0.21
(2,2798)	1:4:B:LYS:H	1:4:B:LYS:HB3	8	0.21
(2,2797)	1:25:B:GLY:H	1:24:B:LYS:H	22	0.21
(2,2795)	1:19:B:LYS:H	1:15:B:SER:H	18	0.21
(2,2791)	1:12:B:SER:H	1:13:B:ILE:HA	10	0.21
(2,2791)	1:12:B:SER:H	1:13:B:ILE:HA	19	0.21
(2,2790)	1:8:B:GLU:H	1:8:B:GLU:HA	1	0.21
(2,2727)	1:49:B:TYR:H	1:49:B:TYR:HD1	23	0.21
(2,2727)	1:49:B:TYR:H	1:49:B:TYR:HD2	23	0.21
(2,2721)	1:90:B:GLU:HG3	1:88:B:TYR:HE1	3	0.21
(2,2721)	1:90:B:GLU:HG3	1:88:B:TYR:HE2	3	0.21
(2,2697)	1:36:B:LEU:H	1:35:B:GLN:HB2	25	0.21
(2,2638)	1:91:B:ILE:HG21	1:91:B:ILE:HD11	23	0.21
(2,2638)	1:91:B:ILE:HG21	1:91:B:ILE:HD12	23	0.21
(2,2638)	1:91:B:ILE:HG21	1:91:B:ILE:HD13	23	0.21
(2,2638)	1:91:B:ILE:HG22	1:91:B:ILE:HD11	23	0.21
(2,2638)	1:91:B:ILE:HG22	1:91:B:ILE:HD12	23	0.21
(2,2638)	1:91:B:ILE:HG22	1:91:B:ILE:HD13	23	0.21
(2,2638)	1:91:B:ILE:HG23	1:91:B:ILE:HD11	23	0.21
(2,2638)	1:91:B:ILE:HG23	1:91:B:ILE:HD12	23	0.21
(2,2638)	1:91:B:ILE:HG23	1:91:B:ILE:HD13	23	0.21
(2,2628)	1:84:B:ILE:H	1:82:B:LEU:HB2	16	0.21
(2,2580)	1:75:B:ILE:H	1:74:B:ASN:HB3	5	0.21
(2,2579)	1:57:B:PHE:HB2	1:60:B:GLY:H	8	0.21
(2,2559)	1:83:B:ASN:HB2	1:83:B:ASN:H	25	0.21
(2,2551)	1:39:B:THR:H	1:39:B:THR:HB	4	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2551)	1:39:B:THR:H	1:39:B:THR:HB	7	0.21
(2,2551)	1:39:B:THR:H	1:39:B:THR:HB	19	0.21
(2,2551)	1:39:B:THR:H	1:39:B:THR:HB	25	0.21
(2,2530)	1:56:B:ILE:H	1:56:B:ILE:HG12	21	0.21
(2,2465)	1:16:B:VAL:H	1:14:B:ASN:HB3	4	0.21
(2,2371)	1:27:B:LEU:HD11	1:28:B:SER:H	12	0.21
(2,2371)	1:27:B:LEU:HD12	1:28:B:SER:H	12	0.21
(2,2371)	1:27:B:LEU:HD13	1:28:B:SER:H	12	0.21
(2,2362)	1:4:B:LYS:H	1:4:B:LYS:HG3	6	0.21
(2,2362)	1:4:B:LYS:H	1:4:B:LYS:HG3	9	0.21
(2,2362)	1:4:B:LYS:H	1:4:B:LYS:HG3	14	0.21
(2,2362)	1:4:B:LYS:H	1:4:B:LYS:HG3	22	0.21
(2,2362)	1:4:B:LYS:H	1:4:B:LYS:HG3	24	0.21
(2,2352)	1:47:B:ILE:HG12	1:46:B:GLY:H	11	0.21
(2,2346)	1:55:B:GLY:H	1:54:B:TRP:HB2	6	0.21
(2,2344)	1:80:B:ASN:H	1:77:B:ASN:HA	12	0.21
(2,2318)	1:34:B:ASN:HB3	1:34:B:ASN:HD22	7	0.21
(2,2284)	1:66:B:PHE:H	1:64:B:TYR:HB3	5	0.21
(2,2284)	1:66:B:PHE:H	1:64:B:TYR:HB3	12	0.21
(2,2284)	1:66:B:PHE:H	1:64:B:TYR:HB3	16	0.21
(2,2284)	1:66:B:PHE:H	1:64:B:TYR:HB3	18	0.21
(2,2284)	1:66:B:PHE:H	1:64:B:TYR:HB3	20	0.21
(2,2279)	1:58:B:VAL:H	1:61:B:GLU:HB3	4	0.21
(2,2279)	1:58:B:VAL:H	1:61:B:GLU:HB3	15	0.21
(2,2279)	1:58:B:VAL:H	1:61:B:GLU:HB3	19	0.21
(2,2227)	1:19:B:LYS:HB3	1:19:B:LYS:H	2	0.21
(2,2165)	1:63:B:VAL:H	1:62:B:LYS:HG3	14	0.21
(2,2120)	1:77:B:ASN:HB2	1:77:B:ASN:HD22	3	0.21
(2,2120)	1:77:B:ASN:HB2	1:77:B:ASN:HD22	14	0.21
(2,2120)	1:77:B:ASN:HB2	1:77:B:ASN:HD22	16	0.21
(2,2120)	1:77:B:ASN:HB2	1:77:B:ASN:HD22	23	0.21
(2,2076)	1:88:B:TYR:HD1	1:89:B:ILE:HA	3	0.21
(2,2076)	1:88:B:TYR:HD2	1:89:B:ILE:HA	3	0.21
(2,2053)	1:86:B:GLY:H	1:87:B:MET:HB2	9	0.21
(2,2053)	1:86:B:GLY:H	1:87:B:MET:HB2	14	0.21
(2,2020)	1:81:B:LYS:H	1:80:B:ASN:HB3	12	0.21
(2,1989)	1:20:B:LEU:HB3	1:54:B:TRP:HZ2	1	0.21
(2,1981)	1:58:B:VAL:H	1:61:B:GLU:HB2	9	0.21
(2,1981)	1:58:B:VAL:H	1:61:B:GLU:HB2	20	0.21
(2,1901)	1:57:B:PHE:HZ	1:56:B:ILE:HA	8	0.21
(2,1901)	1:57:B:PHE:HZ	1:56:B:ILE:HA	13	0.21
(2,1876)	1:48:B:SER:H	1:46:B:GLY:HA2	14	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1873)	1:41:B:SER:H	1:26:B:LYS:HB3	15	0.21
(2,1860)	1:13:B:ILE:HB	1:13:B:ILE:H	13	0.21
(2,1849)	1:41:B:SER:HB2	1:41:B:SER:HA	15	0.21
(2,1849)	1:41:B:SER:HB2	1:41:B:SER:HA	23	0.21
(2,1827)	1:88:B:TYR:HB2	1:59:B:ASN:H	15	0.21
(2,1803)	1:89:B:ILE:HB	1:88:B:TYR:HA	11	0.21
(2,1803)	1:89:B:ILE:HB	1:88:B:TYR:HA	14	0.21
(2,1803)	1:89:B:ILE:HB	1:88:B:TYR:HA	18	0.21
(2,1798)	1:68:B:GLU:HA	1:68:B:GLU:HG3	23	0.21
(2,1786)	1:56:B:ILE:HB	1:66:B:PHE:HZ	3	0.21
(2,1786)	1:56:B:ILE:HB	1:66:B:PHE:HZ	22	0.21
(2,1753)	1:29:B:LEU:HB2	1:38:B:ALA:HA	18	0.21
(2,1753)	1:29:B:LEU:HB2	1:38:B:ALA:HA	24	0.21
(2,1739)	1:56:B:ILE:H	1:55:B:GLY:HA3	23	0.21
(2,1737)	1:63:B:VAL:H	1:58:B:VAL:H	17	0.21
(2,1737)	1:63:B:VAL:H	1:58:B:VAL:H	18	0.21
(2,1737)	1:63:B:VAL:H	1:58:B:VAL:H	23	0.21
(2,1727)	1:13:B:ILE:HA	1:13:B:ILE:HD11	12	0.21
(2,1727)	1:13:B:ILE:HA	1:13:B:ILE:HD12	12	0.21
(2,1727)	1:13:B:ILE:HA	1:13:B:ILE:HD13	12	0.21
(2,1727)	1:13:B:ILE:HA	1:13:B:ILE:HD11	16	0.21
(2,1727)	1:13:B:ILE:HA	1:13:B:ILE:HD12	16	0.21
(2,1727)	1:13:B:ILE:HA	1:13:B:ILE:HD13	16	0.21
(2,1727)	1:13:B:ILE:HA	1:13:B:ILE:HD11	17	0.21
(2,1727)	1:13:B:ILE:HA	1:13:B:ILE:HD12	17	0.21
(2,1727)	1:13:B:ILE:HA	1:13:B:ILE:HD13	17	0.21
(2,1727)	1:13:B:ILE:HA	1:13:B:ILE:HD11	22	0.21
(2,1727)	1:13:B:ILE:HA	1:13:B:ILE:HD12	22	0.21
(2,1727)	1:13:B:ILE:HA	1:13:B:ILE:HD13	22	0.21
(2,1723)	1:67:B:ASN:H	1:67:B:ASN:HD22	2	0.21
(2,1723)	1:67:B:ASN:H	1:67:B:ASN:HD22	6	0.21
(2,1723)	1:67:B:ASN:H	1:67:B:ASN:HD22	13	0.21
(2,1723)	1:67:B:ASN:H	1:67:B:ASN:HD22	18	0.21
(2,1713)	1:38:B:ALA:H	1:37:B:LYS:HB3	11	0.21
(2,1713)	1:38:B:ALA:H	1:37:B:LYS:HB3	14	0.21
(2,1713)	1:38:B:ALA:H	1:37:B:LYS:HB3	15	0.21
(2,1713)	1:38:B:ALA:H	1:37:B:LYS:HB3	17	0.21
(2,1713)	1:38:B:ALA:H	1:37:B:LYS:HB3	18	0.21
(2,1651)	1:93:B:GLN:H	1:92:B:LYS:HB2	6	0.21
(2,1651)	1:93:B:GLN:H	1:92:B:LYS:HB2	11	0.21
(2,1582)	1:37:B:LYS:HG3	1:35:B:GLN:HB3	15	0.21
(2,1561)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	9	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1530)	1:30:B:SER:HB2	1:30:B:SER:HA	10	0.21
(2,1512)	1:27:B:LEU:HB3	1:40:B:SER:HA	2	0.21
(2,1502)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	25	0.21
(2,1494)	1:27:B:LEU:H	1:26:B:LYS:HB3	15	0.21
(2,1433)	1:33:B:GLY:HA2	1:86:B:GLY:HA3	21	0.21
(2,1432)	1:33:B:GLY:HA3	1:86:B:GLY:HA3	6	0.21
(2,1416)	1:49:B:TYR:HA	1:52:B:LYS:HE3	25	0.21
(2,1366)	1:4:B:LYS:H	1:4:B:LYS:HB3	8	0.21
(2,1365)	1:25:B:GLY:H	1:24:B:LYS:H	22	0.21
(2,1363)	1:19:B:LYS:H	1:15:B:SER:H	18	0.21
(2,1359)	1:12:B:SER:H	1:13:B:ILE:HA	10	0.21
(2,1359)	1:12:B:SER:H	1:13:B:ILE:HA	19	0.21
(2,1358)	1:8:B:GLU:H	1:8:B:GLU:HA	1	0.21
(2,1295)	1:49:B:TYR:H	1:49:B:TYR:HD1	23	0.21
(2,1295)	1:49:B:TYR:H	1:49:B:TYR:HD2	23	0.21
(2,1289)	1:90:B:GLU:HG3	1:88:B:TYR:HE1	3	0.21
(2,1289)	1:90:B:GLU:HG3	1:88:B:TYR:HE2	3	0.21
(2,1265)	1:36:B:LEU:H	1:35:B:GLN:HB2	25	0.21
(2,1206)	1:91:B:ILE:HG21	1:91:B:ILE:HD11	23	0.21
(2,1206)	1:91:B:ILE:HG21	1:91:B:ILE:HD12	23	0.21
(2,1206)	1:91:B:ILE:HG21	1:91:B:ILE:HD13	23	0.21
(2,1206)	1:91:B:ILE:HG22	1:91:B:ILE:HD11	23	0.21
(2,1206)	1:91:B:ILE:HG22	1:91:B:ILE:HD12	23	0.21
(2,1206)	1:91:B:ILE:HG22	1:91:B:ILE:HD13	23	0.21
(2,1206)	1:91:B:ILE:HG23	1:91:B:ILE:HD11	23	0.21
(2,1206)	1:91:B:ILE:HG23	1:91:B:ILE:HD12	23	0.21
(2,1206)	1:91:B:ILE:HG23	1:91:B:ILE:HD13	23	0.21
(2,1196)	1:84:B:ILE:H	1:82:B:LEU:HB2	16	0.21
(2,1148)	1:75:B:ILE:H	1:74:B:ASN:HB3	5	0.21
(2,1147)	1:57:B:PHE:HB2	1:60:B:GLY:H	8	0.21
(2,1127)	1:83:B:ASN:HB2	1:83:B:ASN:H	25	0.21
(2,1119)	1:39:B:THR:H	1:39:B:THR:HB	4	0.21
(2,1119)	1:39:B:THR:H	1:39:B:THR:HB	7	0.21
(2,1119)	1:39:B:THR:H	1:39:B:THR:HB	19	0.21
(2,1119)	1:39:B:THR:H	1:39:B:THR:HB	25	0.21
(2,1098)	1:56:B:ILE:H	1:56:B:ILE:HG12	21	0.21
(2,1033)	1:16:B:VAL:H	1:14:B:ASN:HB3	4	0.21
(2,939)	1:27:B:LEU:HD11	1:28:B:SER:H	12	0.21
(2,939)	1:27:B:LEU:HD12	1:28:B:SER:H	12	0.21
(2,939)	1:27:B:LEU:HD13	1:28:B:SER:H	12	0.21
(2,930)	1:4:B:LYS:H	1:4:B:LYS:HG3	6	0.21
(2,930)	1:4:B:LYS:H	1:4:B:LYS:HG3	9	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,930)	1:4:B:LYS:H	1:4:B:LYS:HG3	14	0.21
(2,930)	1:4:B:LYS:H	1:4:B:LYS:HG3	22	0.21
(2,930)	1:4:B:LYS:H	1:4:B:LYS:HG3	24	0.21
(2,920)	1:47:B:ILE:HG12	1:46:B:GLY:H	11	0.21
(2,914)	1:55:B:GLY:H	1:54:B:TRP:HB2	6	0.21
(2,912)	1:80:B:ASN:H	1:77:B:ASN:HA	12	0.21
(2,886)	1:34:B:ASN:HB3	1:34:B:ASN:HD22	7	0.21
(2,852)	1:66:B:PHE:H	1:64:B:TYR:HB3	5	0.21
(2,852)	1:66:B:PHE:H	1:64:B:TYR:HB3	12	0.21
(2,852)	1:66:B:PHE:H	1:64:B:TYR:HB3	16	0.21
(2,852)	1:66:B:PHE:H	1:64:B:TYR:HB3	18	0.21
(2,852)	1:66:B:PHE:H	1:64:B:TYR:HB3	20	0.21
(2,847)	1:58:B:VAL:H	1:61:B:GLU:HB3	4	0.21
(2,847)	1:58:B:VAL:H	1:61:B:GLU:HB3	15	0.21
(2,847)	1:58:B:VAL:H	1:61:B:GLU:HB3	19	0.21
(2,795)	1:19:B:LYS:HB3	1:19:B:LYS:H	2	0.21
(2,733)	1:63:B:VAL:H	1:62:B:LYS:HG3	14	0.21
(2,688)	1:77:B:ASN:HB2	1:77:B:ASN:HD22	3	0.21
(2,688)	1:77:B:ASN:HB2	1:77:B:ASN:HD22	14	0.21
(2,688)	1:77:B:ASN:HB2	1:77:B:ASN:HD22	16	0.21
(2,688)	1:77:B:ASN:HB2	1:77:B:ASN:HD22	23	0.21
(2,644)	1:88:B:TYR:HD1	1:89:B:ILE:HA	3	0.21
(2,644)	1:88:B:TYR:HD2	1:89:B:ILE:HA	3	0.21
(2,621)	1:86:B:GLY:H	1:87:B:MET:HB2	9	0.21
(2,621)	1:86:B:GLY:H	1:87:B:MET:HB2	14	0.21
(2,588)	1:81:B:LYS:H	1:80:B:ASN:HB3	12	0.21
(2,557)	1:20:B:LEU:HB3	1:54:B:TRP:HZ2	1	0.21
(2,549)	1:58:B:VAL:H	1:61:B:GLU:HB2	9	0.21
(2,549)	1:58:B:VAL:H	1:61:B:GLU:HB2	20	0.21
(2,469)	1:57:B:PHE:HZ	1:56:B:ILE:HA	8	0.21
(2,469)	1:57:B:PHE:HZ	1:56:B:ILE:HA	13	0.21
(2,444)	1:48:B:SER:H	1:46:B:GLY:HA2	14	0.21
(2,441)	1:41:B:SER:H	1:26:B:LYS:HB3	15	0.21
(2,428)	1:13:B:ILE:HB	1:13:B:ILE:H	13	0.21
(2,417)	1:41:B:SER:HB2	1:41:B:SER:HA	15	0.21
(2,417)	1:41:B:SER:HB2	1:41:B:SER:HA	23	0.21
(2,395)	1:88:B:TYR:HB2	1:59:B:ASN:H	15	0.21
(2,371)	1:89:B:ILE:HB	1:88:B:TYR:HA	11	0.21
(2,371)	1:89:B:ILE:HB	1:88:B:TYR:HA	14	0.21
(2,371)	1:89:B:ILE:HB	1:88:B:TYR:HA	18	0.21
(2,366)	1:68:B:GLU:HA	1:68:B:GLU:HG3	23	0.21
(2,354)	1:56:B:ILE:HB	1:66:B:PHE:HZ	3	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,354)	1:56:B:ILE:HB	1:66:B:PHE:HZ	22	0.21
(2,321)	1:29:B:LEU:HB2	1:38:B:ALA:HA	18	0.21
(2,321)	1:29:B:LEU:HB2	1:38:B:ALA:HA	24	0.21
(2,307)	1:56:B:ILE:H	1:55:B:GLY:HA3	23	0.21
(2,305)	1:63:B:VAL:H	1:58:B:VAL:H	17	0.21
(2,305)	1:63:B:VAL:H	1:58:B:VAL:H	18	0.21
(2,305)	1:63:B:VAL:H	1:58:B:VAL:H	23	0.21
(2,295)	1:13:B:ILE:HA	1:13:B:ILE:HD11	12	0.21
(2,295)	1:13:B:ILE:HA	1:13:B:ILE:HD12	12	0.21
(2,295)	1:13:B:ILE:HA	1:13:B:ILE:HD13	12	0.21
(2,295)	1:13:B:ILE:HA	1:13:B:ILE:HD11	16	0.21
(2,295)	1:13:B:ILE:HA	1:13:B:ILE:HD12	16	0.21
(2,295)	1:13:B:ILE:HA	1:13:B:ILE:HD13	16	0.21
(2,295)	1:13:B:ILE:HA	1:13:B:ILE:HD11	17	0.21
(2,295)	1:13:B:ILE:HA	1:13:B:ILE:HD12	17	0.21
(2,295)	1:13:B:ILE:HA	1:13:B:ILE:HD13	17	0.21
(2,295)	1:13:B:ILE:HA	1:13:B:ILE:HD11	22	0.21
(2,295)	1:13:B:ILE:HA	1:13:B:ILE:HD12	22	0.21
(2,295)	1:13:B:ILE:HA	1:13:B:ILE:HD13	22	0.21
(2,291)	1:67:B:ASN:H	1:67:B:ASN:HD22	2	0.21
(2,291)	1:67:B:ASN:H	1:67:B:ASN:HD22	6	0.21
(2,291)	1:67:B:ASN:H	1:67:B:ASN:HD22	13	0.21
(2,291)	1:67:B:ASN:H	1:67:B:ASN:HD22	18	0.21
(2,281)	1:38:B:ALA:H	1:37:B:LYS:HB3	11	0.21
(2,281)	1:38:B:ALA:H	1:37:B:LYS:HB3	14	0.21
(2,281)	1:38:B:ALA:H	1:37:B:LYS:HB3	15	0.21
(2,281)	1:38:B:ALA:H	1:37:B:LYS:HB3	17	0.21
(2,281)	1:38:B:ALA:H	1:37:B:LYS:HB3	18	0.21
(2,219)	1:93:B:GLN:H	1:92:B:LYS:HB2	6	0.21
(2,219)	1:93:B:GLN:H	1:92:B:LYS:HB2	11	0.21
(2,150)	1:37:B:LYS:HG3	1:35:B:GLN:HB3	15	0.21
(2,129)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	9	0.21
(2,98)	1:30:B:SER:HB2	1:30:B:SER:HA	10	0.21
(2,80)	1:27:B:LEU:HB3	1:40:B:SER:HA	2	0.21
(2,70)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	25	0.21
(2,62)	1:27:B:LEU:H	1:26:B:LYS:HB3	15	0.21
(1,99)	1:78:B:ASP:H	1:74:B:ASN:O	16	0.21
(1,99)	1:78:B:ASP:H	1:74:B:ASN:O	19	0.21
(1,99)	1:78:B:ASP:H	1:74:B:ASN:O	21	0.21
(1,99)	1:78:B:ASP:H	1:74:B:ASN:O	25	0.21
(1,96)	1:72:B:VAL:O	1:76:B:SER:N	10	0.21
(1,91)	1:58:B:VAL:H	1:62:B:LYS:O	8	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,52)	1:78:B:ASP:H	1:74:B:ASN:O	16	0.21
(1,52)	1:78:B:ASP:H	1:74:B:ASN:O	19	0.21
(1,52)	1:78:B:ASP:H	1:74:B:ASN:O	21	0.21
(1,52)	1:78:B:ASP:H	1:74:B:ASN:O	25	0.21
(1,49)	1:72:B:VAL:O	1:76:B:SER:N	10	0.21
(1,44)	1:58:B:VAL:H	1:62:B:LYS:O	8	0.21
(2,2884)	1:26:B:LYS:HG2	1:26:B:LYS:H	20	0.2
(2,2880)	1:43:B:ALA:H	1:41:B:SER:HA	18	0.2
(2,2851)	1:46:B:GLY:HA3	1:71:B:THR:HA	25	0.2
(2,2846)	1:49:B:TYR:HE1	1:24:B:LYS:HD2	14	0.2
(2,2846)	1:49:B:TYR:HE2	1:24:B:LYS:HD2	14	0.2
(2,2841)	1:45:B:TYR:HB2	1:24:B:LYS:HB2	8	0.2
(2,2837)	1:10:B:MET:H	1:10:B:MET:HB3	19	0.2
(2,2826)	1:9:B:GLN:H	1:9:B:GLN:HB3	8	0.2
(2,2820)	1:87:B:MET:HG2	1:87:B:MET:H	14	0.2
(2,2820)	1:87:B:MET:HG2	1:87:B:MET:H	17	0.2
(2,2798)	1:4:B:LYS:H	1:4:B:LYS:HB3	25	0.2
(2,2793)	1:57:B:PHE:HA	1:57:B:PHE:HD1	6	0.2
(2,2793)	1:57:B:PHE:HA	1:57:B:PHE:HD2	6	0.2
(2,2792)	1:9:B:GLN:H	1:8:B:GLU:HA	10	0.2
(2,2791)	1:12:B:SER:H	1:13:B:ILE:HA	21	0.2
(2,2790)	1:8:B:GLU:H	1:8:B:GLU:HA	23	0.2
(2,2789)	1:11:B:ASN:H	1:11:B:ASN:HA	21	0.2
(2,2770)	1:41:B:SER:HB3	1:26:B:LYS:H	2	0.2
(2,2766)	1:27:B:LEU:H	1:27:B:LEU:HG	3	0.2
(2,2762)	1:66:B:PHE:H	1:54:B:TRP:H	24	0.2
(2,2723)	1:84:B:ILE:H	1:84:B:ILE:HG12	17	0.2
(2,2717)	1:31:B:MET:H	1:31:B:MET:HB3	6	0.2
(2,2710)	1:67:B:ASN:HB3	1:67:B:ASN:HD22	11	0.2
(2,2703)	1:69:B:LYS:H	1:68:B:GLU:HB3	25	0.2
(2,2702)	1:25:B:GLY:HA3	1:45:B:TYR:HB2	24	0.2
(2,2638)	1:91:B:ILE:HG21	1:91:B:ILE:HD11	18	0.2
(2,2638)	1:91:B:ILE:HG21	1:91:B:ILE:HD12	18	0.2
(2,2638)	1:91:B:ILE:HG21	1:91:B:ILE:HD13	18	0.2
(2,2638)	1:91:B:ILE:HG22	1:91:B:ILE:HD11	18	0.2
(2,2638)	1:91:B:ILE:HG22	1:91:B:ILE:HD12	18	0.2
(2,2638)	1:91:B:ILE:HG22	1:91:B:ILE:HD13	18	0.2
(2,2638)	1:91:B:ILE:HG23	1:91:B:ILE:HD11	18	0.2
(2,2638)	1:91:B:ILE:HG23	1:91:B:ILE:HD12	18	0.2
(2,2638)	1:91:B:ILE:HG23	1:91:B:ILE:HD13	18	0.2
(2,2628)	1:84:B:ILE:H	1:82:B:LEU:HB2	20	0.2
(2,2584)	1:24:B:LYS:H	1:24:B:LYS:HG2	14	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2579)	1:57:B:PHE:HB2	1:60:B:GLY:H	6	0.2
(2,2579)	1:57:B:PHE:HB2	1:60:B:GLY:H	21	0.2
(2,2551)	1:39:B:THR:H	1:39:B:THR:HB	3	0.2
(2,2551)	1:39:B:THR:H	1:39:B:THR:HB	5	0.2
(2,2551)	1:39:B:THR:H	1:39:B:THR:HB	9	0.2
(2,2551)	1:39:B:THR:H	1:39:B:THR:HB	11	0.2
(2,2551)	1:39:B:THR:H	1:39:B:THR:HB	14	0.2
(2,2551)	1:39:B:THR:H	1:39:B:THR:HB	20	0.2
(2,2551)	1:39:B:THR:H	1:39:B:THR:HB	24	0.2
(2,2536)	1:64:B:TYR:H	1:63:B:VAL:H	6	0.2
(2,2465)	1:16:B:VAL:H	1:14:B:ASN:HB3	9	0.2
(2,2459)	1:86:B:GLY:H	1:85:B:LYS:HG3	6	0.2
(2,2430)	1:35:B:GLN:HG3	1:35:B:GLN:HE22	7	0.2
(2,2430)	1:35:B:GLN:HG3	1:35:B:GLN:HE22	24	0.2
(2,2390)	1:20:B:LEU:H	1:20:B:LEU:HB3	2	0.2
(2,2390)	1:20:B:LEU:H	1:20:B:LEU:HB3	12	0.2
(2,2362)	1:4:B:LYS:H	1:4:B:LYS:HG3	4	0.2
(2,2362)	1:4:B:LYS:H	1:4:B:LYS:HG3	13	0.2
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD1	1	0.2
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD2	1	0.2
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD1	21	0.2
(2,2360)	1:65:B:THR:H	1:64:B:TYR:HD2	21	0.2
(2,2358)	1:79:B:ILE:H	1:78:B:ASP:H	13	0.2
(2,2346)	1:55:B:GLY:H	1:54:B:TRP:HB2	14	0.2
(2,2344)	1:80:B:ASN:H	1:77:B:ASN:HA	17	0.2
(2,2325)	1:60:B:GLY:H	1:59:B:ASN:HB3	18	0.2
(2,2325)	1:60:B:GLY:H	1:59:B:ASN:HB3	21	0.2
(2,2300)	1:54:B:TRP:H	1:54:B:TRP:HB3	5	0.2
(2,2284)	1:66:B:PHE:H	1:64:B:TYR:HB3	2	0.2
(2,2284)	1:66:B:PHE:H	1:64:B:TYR:HB3	13	0.2
(2,2284)	1:66:B:PHE:H	1:64:B:TYR:HB3	17	0.2
(2,2258)	1:73:B:GLY:H	1:74:B:ASN:HB3	1	0.2
(2,2258)	1:73:B:GLY:H	1:74:B:ASN:HB3	21	0.2
(2,2227)	1:19:B:LYS:HB3	1:19:B:LYS:H	16	0.2
(2,2157)	1:26:B:LYS:HE3	1:42:B:ASN:H	24	0.2
(2,2156)	1:38:B:ALA:H	1:37:B:LYS:HB2	1	0.2
(2,2120)	1:77:B:ASN:HB2	1:77:B:ASN:HD22	1	0.2
(2,2120)	1:77:B:ASN:HB2	1:77:B:ASN:HD22	11	0.2
(2,2120)	1:77:B:ASN:HB2	1:77:B:ASN:HD22	13	0.2
(2,2120)	1:77:B:ASN:HB2	1:77:B:ASN:HD22	22	0.2
(2,2041)	1:46:B:GLY:H	1:45:B:TYR:HB2	13	0.2
(2,2020)	1:81:B:LYS:H	1:80:B:ASN:HB3	2	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2020)	1:81:B:LYS:H	1:80:B:ASN:HB3	14	0.2
(2,2007)	1:27:B:LEU:H	1:39:B:THR:H	12	0.2
(2,2007)	1:27:B:LEU:H	1:39:B:THR:H	21	0.2
(2,1989)	1:20:B:LEU:HB3	1:54:B:TRP:HZ2	17	0.2
(2,1989)	1:20:B:LEU:HB3	1:54:B:TRP:HZ2	25	0.2
(2,1982)	1:35:B:GLN:H	1:31:B:MET:HA	12	0.2
(2,1981)	1:58:B:VAL:H	1:61:B:GLU:HB2	7	0.2
(2,1967)	1:92:B:LYS:HG3	1:92:B:LYS:HE3	21	0.2
(2,1849)	1:41:B:SER:HB2	1:41:B:SER:HA	8	0.2
(2,1827)	1:88:B:TYR:HB2	1:59:B:ASN:H	19	0.2
(2,1827)	1:88:B:TYR:HB2	1:59:B:ASN:H	25	0.2
(2,1815)	1:84:B:ILE:HG12	1:84:B:ILE:HA	9	0.2
(2,1803)	1:89:B:ILE:HB	1:88:B:TYR:HA	17	0.2
(2,1803)	1:89:B:ILE:HB	1:88:B:TYR:HA	19	0.2
(2,1788)	1:41:B:SER:H	1:40:B:SER:HB3	4	0.2
(2,1786)	1:56:B:ILE:HB	1:66:B:PHE:HZ	1	0.2
(2,1786)	1:56:B:ILE:HB	1:66:B:PHE:HZ	6	0.2
(2,1786)	1:56:B:ILE:HB	1:66:B:PHE:HZ	9	0.2
(2,1786)	1:56:B:ILE:HB	1:66:B:PHE:HZ	19	0.2
(2,1781)	1:67:B:ASN:HD21	1:67:B:ASN:HA	14	0.2
(2,1753)	1:29:B:LEU:HB2	1:38:B:ALA:HA	1	0.2
(2,1753)	1:29:B:LEU:HB2	1:38:B:ALA:HA	5	0.2
(2,1753)	1:29:B:LEU:HB2	1:38:B:ALA:HA	7	0.2
(2,1753)	1:29:B:LEU:HB2	1:38:B:ALA:HA	12	0.2
(2,1727)	1:13:B:ILE:HA	1:13:B:ILE:HD11	9	0.2
(2,1727)	1:13:B:ILE:HA	1:13:B:ILE:HD12	9	0.2
(2,1727)	1:13:B:ILE:HA	1:13:B:ILE:HD13	9	0.2
(2,1727)	1:13:B:ILE:HA	1:13:B:ILE:HD11	15	0.2
(2,1727)	1:13:B:ILE:HA	1:13:B:ILE:HD12	15	0.2
(2,1727)	1:13:B:ILE:HA	1:13:B:ILE:HD13	15	0.2
(2,1727)	1:13:B:ILE:HA	1:13:B:ILE:HD11	23	0.2
(2,1727)	1:13:B:ILE:HA	1:13:B:ILE:HD12	23	0.2
(2,1727)	1:13:B:ILE:HA	1:13:B:ILE:HD13	23	0.2
(2,1723)	1:67:B:ASN:H	1:67:B:ASN:HD22	14	0.2
(2,1713)	1:38:B:ALA:H	1:37:B:LYS:HB3	12	0.2
(2,1713)	1:38:B:ALA:H	1:37:B:LYS:HB3	19	0.2
(2,1644)	1:85:B:LYS:HG2	1:84:B:ILE:HA	18	0.2
(2,1582)	1:37:B:LYS:HG3	1:35:B:GLN:HB3	19	0.2
(2,1561)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	5	0.2
(2,1561)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	6	0.2
(2,1561)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	19	0.2
(2,1561)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	23	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1530)	1:30:B:SER:HB2	1:30:B:SER:HA	6	0.2
(2,1530)	1:30:B:SER:HB2	1:30:B:SER:HA	17	0.2
(2,1457)	1:85:B:LYS:H	1:84:B:ILE:HG12	18	0.2
(2,1453)	1:26:B:LYS:HG2	1:26:B:LYS:H	20	0.2
(2,1449)	1:43:B:ALA:H	1:41:B:SER:HA	18	0.2
(2,1419)	1:46:B:GLY:HA3	1:71:B:THR:HA	25	0.2
(2,1414)	1:49:B:TYR:HE1	1:24:B:LYS:HD2	14	0.2
(2,1414)	1:49:B:TYR:HE2	1:24:B:LYS:HD2	14	0.2
(2,1409)	1:45:B:TYR:HB2	1:24:B:LYS:HB2	8	0.2
(2,1405)	1:10:B:MET:H	1:10:B:MET:HB3	19	0.2
(2,1394)	1:9:B:GLN:H	1:9:B:GLN:HB3	8	0.2
(2,1388)	1:87:B:MET:HG2	1:87:B:MET:H	14	0.2
(2,1388)	1:87:B:MET:HG2	1:87:B:MET:H	17	0.2
(2,1366)	1:4:B:LYS:H	1:4:B:LYS:HB3	25	0.2
(2,1361)	1:57:B:PHE:HA	1:57:B:PHE:HD1	6	0.2
(2,1361)	1:57:B:PHE:HA	1:57:B:PHE:HD2	6	0.2
(2,1360)	1:9:B:GLN:H	1:8:B:GLU:HA	10	0.2
(2,1359)	1:12:B:SER:H	1:13:B:ILE:HA	21	0.2
(2,1358)	1:8:B:GLU:H	1:8:B:GLU:HA	23	0.2
(2,1357)	1:11:B:ASN:H	1:11:B:ASN:HA	21	0.2
(2,1338)	1:41:B:SER:HB3	1:26:B:LYS:H	2	0.2
(2,1334)	1:27:B:LEU:H	1:27:B:LEU:HG	3	0.2
(2,1330)	1:66:B:PHE:H	1:54:B:TRP:H	24	0.2
(2,1291)	1:84:B:ILE:H	1:84:B:ILE:HG12	17	0.2
(2,1285)	1:31:B:MET:H	1:31:B:MET:HB3	6	0.2
(2,1278)	1:67:B:ASN:HB3	1:67:B:ASN:HD22	11	0.2
(2,1271)	1:69:B:LYS:H	1:68:B:GLU:HB3	25	0.2
(2,1270)	1:25:B:GLY:HA3	1:45:B:TYR:HB2	24	0.2
(2,1206)	1:91:B:ILE:HG21	1:91:B:ILE:HD11	18	0.2
(2,1206)	1:91:B:ILE:HG21	1:91:B:ILE:HD12	18	0.2
(2,1206)	1:91:B:ILE:HG21	1:91:B:ILE:HD13	18	0.2
(2,1206)	1:91:B:ILE:HG22	1:91:B:ILE:HD11	18	0.2
(2,1206)	1:91:B:ILE:HG22	1:91:B:ILE:HD12	18	0.2
(2,1206)	1:91:B:ILE:HG22	1:91:B:ILE:HD13	18	0.2
(2,1206)	1:91:B:ILE:HG23	1:91:B:ILE:HD11	18	0.2
(2,1206)	1:91:B:ILE:HG23	1:91:B:ILE:HD12	18	0.2
(2,1206)	1:91:B:ILE:HG23	1:91:B:ILE:HD13	18	0.2
(2,1196)	1:84:B:ILE:H	1:82:B:LEU:HB2	20	0.2
(2,1152)	1:24:B:LYS:H	1:24:B:LYS:HG2	14	0.2
(2,1147)	1:57:B:PHE:HB2	1:60:B:GLY:H	6	0.2
(2,1147)	1:57:B:PHE:HB2	1:60:B:GLY:H	21	0.2
(2,1119)	1:39:B:THR:H	1:39:B:THR:HB	3	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1119)	1:39:B:THR:H	1:39:B:THR:HB	5	0.2
(2,1119)	1:39:B:THR:H	1:39:B:THR:HB	9	0.2
(2,1119)	1:39:B:THR:H	1:39:B:THR:HB	11	0.2
(2,1119)	1:39:B:THR:H	1:39:B:THR:HB	14	0.2
(2,1119)	1:39:B:THR:H	1:39:B:THR:HB	20	0.2
(2,1119)	1:39:B:THR:H	1:39:B:THR:HB	24	0.2
(2,1104)	1:64:B:TYR:H	1:63:B:VAL:H	6	0.2
(2,1033)	1:16:B:VAL:H	1:14:B:ASN:HB3	9	0.2
(2,1027)	1:86:B:GLY:H	1:85:B:LYS:HG3	6	0.2
(2,998)	1:35:B:GLN:HG3	1:35:B:GLN:HE22	7	0.2
(2,998)	1:35:B:GLN:HG3	1:35:B:GLN:HE22	24	0.2
(2,958)	1:20:B:LEU:H	1:20:B:LEU:HB3	2	0.2
(2,958)	1:20:B:LEU:H	1:20:B:LEU:HB3	12	0.2
(2,930)	1:4:B:LYS:H	1:4:B:LYS:HG3	4	0.2
(2,930)	1:4:B:LYS:H	1:4:B:LYS:HG3	13	0.2
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD1	1	0.2
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD2	1	0.2
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD1	21	0.2
(2,928)	1:65:B:THR:H	1:64:B:TYR:HD2	21	0.2
(2,926)	1:79:B:ILE:H	1:78:B:ASP:H	13	0.2
(2,914)	1:55:B:GLY:H	1:54:B:TRP:HB2	14	0.2
(2,912)	1:80:B:ASN:H	1:77:B:ASN:HA	17	0.2
(2,893)	1:60:B:GLY:H	1:59:B:ASN:HB3	18	0.2
(2,893)	1:60:B:GLY:H	1:59:B:ASN:HB3	21	0.2
(2,868)	1:54:B:TRP:H	1:54:B:TRP:HB3	5	0.2
(2,852)	1:66:B:PHE:H	1:64:B:TYR:HB3	2	0.2
(2,852)	1:66:B:PHE:H	1:64:B:TYR:HB3	13	0.2
(2,852)	1:66:B:PHE:H	1:64:B:TYR:HB3	17	0.2
(2,826)	1:73:B:GLY:H	1:74:B:ASN:HB3	1	0.2
(2,826)	1:73:B:GLY:H	1:74:B:ASN:HB3	21	0.2
(2,795)	1:19:B:LYS:HB3	1:19:B:LYS:H	16	0.2
(2,725)	1:26:B:LYS:HE3	1:42:B:ASN:H	24	0.2
(2,724)	1:38:B:ALA:H	1:37:B:LYS:HB2	1	0.2
(2,688)	1:77:B:ASN:HB2	1:77:B:ASN:HD22	1	0.2
(2,688)	1:77:B:ASN:HB2	1:77:B:ASN:HD22	11	0.2
(2,688)	1:77:B:ASN:HB2	1:77:B:ASN:HD22	13	0.2
(2,688)	1:77:B:ASN:HB2	1:77:B:ASN:HD22	22	0.2
(2,609)	1:46:B:GLY:H	1:45:B:TYR:HB2	13	0.2
(2,588)	1:81:B:LYS:H	1:80:B:ASN:HB3	2	0.2
(2,588)	1:81:B:LYS:H	1:80:B:ASN:HB3	14	0.2
(2,575)	1:27:B:LEU:H	1:39:B:THR:H	12	0.2
(2,575)	1:27:B:LEU:H	1:39:B:THR:H	21	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,557)	1:20:B:LEU:HB3	1:54:B:TRP:HZ2	17	0.2
(2,557)	1:20:B:LEU:HB3	1:54:B:TRP:HZ2	25	0.2
(2,550)	1:35:B:GLN:H	1:31:B:MET:HA	12	0.2
(2,549)	1:58:B:VAL:H	1:61:B:GLU:HB2	7	0.2
(2,535)	1:92:B:LYS:HG3	1:92:B:LYS:HE3	21	0.2
(2,417)	1:41:B:SER:HB2	1:41:B:SER:HA	8	0.2
(2,395)	1:88:B:TYR:HB2	1:59:B:ASN:H	19	0.2
(2,395)	1:88:B:TYR:HB2	1:59:B:ASN:H	25	0.2
(2,383)	1:84:B:ILE:HG12	1:84:B:ILE:HA	9	0.2
(2,371)	1:89:B:ILE:HB	1:88:B:TYR:HA	17	0.2
(2,371)	1:89:B:ILE:HB	1:88:B:TYR:HA	19	0.2
(2,356)	1:41:B:SER:H	1:40:B:SER:HB3	4	0.2
(2,354)	1:56:B:ILE:HB	1:66:B:PHE:HZ	1	0.2
(2,354)	1:56:B:ILE:HB	1:66:B:PHE:HZ	6	0.2
(2,354)	1:56:B:ILE:HB	1:66:B:PHE:HZ	9	0.2
(2,354)	1:56:B:ILE:HB	1:66:B:PHE:HZ	19	0.2
(2,349)	1:67:B:ASN:HD21	1:67:B:ASN:HA	14	0.2
(2,321)	1:29:B:LEU:HB2	1:38:B:ALA:HA	1	0.2
(2,321)	1:29:B:LEU:HB2	1:38:B:ALA:HA	5	0.2
(2,321)	1:29:B:LEU:HB2	1:38:B:ALA:HA	7	0.2
(2,321)	1:29:B:LEU:HB2	1:38:B:ALA:HA	12	0.2
(2,295)	1:13:B:ILE:HA	1:13:B:ILE:HD11	9	0.2
(2,295)	1:13:B:ILE:HA	1:13:B:ILE:HD12	9	0.2
(2,295)	1:13:B:ILE:HA	1:13:B:ILE:HD13	9	0.2
(2,295)	1:13:B:ILE:HA	1:13:B:ILE:HD11	15	0.2
(2,295)	1:13:B:ILE:HA	1:13:B:ILE:HD12	15	0.2
(2,295)	1:13:B:ILE:HA	1:13:B:ILE:HD13	15	0.2
(2,295)	1:13:B:ILE:HA	1:13:B:ILE:HD11	23	0.2
(2,295)	1:13:B:ILE:HA	1:13:B:ILE:HD12	23	0.2
(2,295)	1:13:B:ILE:HA	1:13:B:ILE:HD13	23	0.2
(2,291)	1:67:B:ASN:H	1:67:B:ASN:HD22	14	0.2
(2,281)	1:38:B:ALA:H	1:37:B:LYS:HB3	12	0.2
(2,281)	1:38:B:ALA:H	1:37:B:LYS:HB3	19	0.2
(2,212)	1:85:B:LYS:HG2	1:84:B:ILE:HA	18	0.2
(2,150)	1:37:B:LYS:HG3	1:35:B:GLN:HB3	19	0.2
(2,129)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	5	0.2
(2,129)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	6	0.2
(2,129)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	19	0.2
(2,129)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	23	0.2
(2,98)	1:30:B:SER:HB2	1:30:B:SER:HA	6	0.2
(2,98)	1:30:B:SER:HB2	1:30:B:SER:HA	17	0.2
(2,25)	1:85:B:LYS:H	1:84:B:ILE:HG12	18	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,99)	1:78:B:ASP:H	1:74:B:ASN:O	3	0.2
(1,99)	1:78:B:ASP:H	1:74:B:ASN:O	9	0.2
(1,99)	1:78:B:ASP:H	1:74:B:ASN:O	20	0.2
(1,96)	1:72:B:VAL:O	1:76:B:SER:N	9	0.2
(1,91)	1:58:B:VAL:H	1:62:B:LYS:O	3	0.2
(1,52)	1:78:B:ASP:H	1:74:B:ASN:O	3	0.2
(1,52)	1:78:B:ASP:H	1:74:B:ASN:O	9	0.2
(1,52)	1:78:B:ASP:H	1:74:B:ASN:O	20	0.2
(1,49)	1:72:B:VAL:O	1:76:B:SER:N	9	0.2
(1,44)	1:58:B:VAL:H	1:62:B:LYS:O	3	0.2
(2,2883)	1:71:B:THR:H	1:71:B:THR:HB	5	0.19
(2,2883)	1:71:B:THR:H	1:71:B:THR:HB	21	0.19
(2,2864)	1:33:B:GLY:HA2	1:86:B:GLY:HA3	5	0.19
(2,2841)	1:45:B:TYR:HB2	1:24:B:LYS:HB2	24	0.19
(2,2837)	1:10:B:MET:H	1:10:B:MET:HB3	20	0.19
(2,2800)	1:48:B:SER:H	1:47:B:ILE:HG12	2	0.19
(2,2795)	1:19:B:LYS:H	1:15:B:SER:H	20	0.19
(2,2791)	1:12:B:SER:H	1:13:B:ILE:HA	2	0.19
(2,2791)	1:12:B:SER:H	1:13:B:ILE:HA	20	0.19
(2,2787)	1:48:B:SER:H	1:47:B:ILE:HG13	13	0.19
(2,2775)	1:49:B:TYR:H	1:48:B:SER:HB3	25	0.19
(2,2768)	1:37:B:LYS:H	1:36:B:LEU:HB3	21	0.19
(2,2766)	1:27:B:LEU:H	1:27:B:LEU:HG	19	0.19
(2,2727)	1:49:B:TYR:H	1:49:B:TYR:HD1	1	0.19
(2,2727)	1:49:B:TYR:H	1:49:B:TYR:HD2	1	0.19
(2,2721)	1:90:B:GLU:HG3	1:88:B:TYR:HE1	19	0.19
(2,2721)	1:90:B:GLU:HG3	1:88:B:TYR:HE2	19	0.19
(2,2717)	1:31:B:MET:H	1:31:B:MET:HB3	16	0.19
(2,2641)	1:85:B:LYS:H	1:84:B:ILE:HA	11	0.19
(2,2635)	1:22:B:LYS:H	1:21:B:ASN:HB2	13	0.19
(2,2628)	1:84:B:ILE:H	1:82:B:LEU:HB2	17	0.19
(2,2579)	1:57:B:PHE:HB2	1:60:B:GLY:H	14	0.19
(2,2559)	1:83:B:ASN:HB2	1:83:B:ASN:H	19	0.19
(2,2551)	1:39:B:THR:H	1:39:B:THR:HB	6	0.19
(2,2551)	1:39:B:THR:H	1:39:B:THR:HB	13	0.19
(2,2551)	1:39:B:THR:H	1:39:B:THR:HB	16	0.19
(2,2551)	1:39:B:THR:H	1:39:B:THR:HB	21	0.19
(2,2530)	1:56:B:ILE:H	1:56:B:ILE:HG12	2	0.19
(2,2530)	1:56:B:ILE:H	1:56:B:ILE:HG12	19	0.19
(2,2430)	1:35:B:GLN:HG3	1:35:B:GLN:HE22	17	0.19
(2,2390)	1:20:B:LEU:H	1:20:B:LEU:HB3	7	0.19
(2,2390)	1:20:B:LEU:H	1:20:B:LEU:HB3	14	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2371)	1:27:B:LEU:HD11	1:28:B:SER:H	21	0.19
(2,2371)	1:27:B:LEU:HD12	1:28:B:SER:H	21	0.19
(2,2371)	1:27:B:LEU:HD13	1:28:B:SER:H	21	0.19
(2,2362)	1:4:B:LYS:H	1:4:B:LYS:HG3	20	0.19
(2,2346)	1:55:B:GLY:H	1:54:B:TRP:HB2	11	0.19
(2,2346)	1:55:B:GLY:H	1:54:B:TRP:HB2	23	0.19
(2,2344)	1:80:B:ASN:H	1:77:B:ASN:HA	5	0.19
(2,2306)	1:68:B:GLU:HG3	1:68:B:GLU:H	5	0.19
(2,2306)	1:68:B:GLU:HG3	1:68:B:GLU:H	20	0.19
(2,2279)	1:58:B:VAL:H	1:61:B:GLU:HB3	3	0.19
(2,2279)	1:58:B:VAL:H	1:61:B:GLU:HB3	9	0.19
(2,2279)	1:58:B:VAL:H	1:61:B:GLU:HB3	16	0.19
(2,2258)	1:73:B:GLY:H	1:74:B:ASN:HB3	25	0.19
(2,2227)	1:19:B:LYS:HB3	1:19:B:LYS:H	1	0.19
(2,2227)	1:19:B:LYS:HB3	1:19:B:LYS:H	20	0.19
(2,2197)	1:89:B:ILE:H	1:87:B:MET:HG3	22	0.19
(2,2157)	1:26:B:LYS:HE3	1:42:B:ASN:H	1	0.19
(2,2152)	1:40:B:SER:HB3	1:27:B:LEU:HB3	12	0.19
(2,2020)	1:81:B:LYS:H	1:80:B:ASN:HB3	17	0.19
(2,1989)	1:20:B:LEU:HB3	1:54:B:TRP:HZ2	16	0.19
(2,1981)	1:58:B:VAL:H	1:61:B:GLU:HB2	11	0.19
(2,1981)	1:58:B:VAL:H	1:61:B:GLU:HB2	17	0.19
(2,1963)	1:93:B:GLN:HE22	1:92:B:LYS:HB3	20	0.19
(2,1901)	1:57:B:PHE:HZ	1:56:B:ILE:HA	21	0.19
(2,1896)	1:70:B:SER:HB3	1:69:B:LYS:HB3	14	0.19
(2,1849)	1:41:B:SER:HB2	1:41:B:SER:HA	2	0.19
(2,1849)	1:41:B:SER:HB2	1:41:B:SER:HA	3	0.19
(2,1849)	1:41:B:SER:HB2	1:41:B:SER:HA	17	0.19
(2,1842)	1:89:B:ILE:H	1:88:B:TYR:HD1	15	0.19
(2,1842)	1:89:B:ILE:H	1:88:B:TYR:HD2	15	0.19
(2,1827)	1:88:B:TYR:HB2	1:59:B:ASN:H	23	0.19
(2,1815)	1:84:B:ILE:HG12	1:84:B:ILE:HA	5	0.19
(2,1803)	1:89:B:ILE:HB	1:88:B:TYR:HA	24	0.19
(2,1786)	1:56:B:ILE:HB	1:66:B:PHE:HZ	17	0.19
(2,1753)	1:29:B:LEU:HB2	1:38:B:ALA:HA	6	0.19
(2,1753)	1:29:B:LEU:HB2	1:38:B:ALA:HA	21	0.19
(2,1737)	1:63:B:VAL:H	1:58:B:VAL:H	12	0.19
(2,1727)	1:13:B:ILE:HA	1:13:B:ILE:HD11	4	0.19
(2,1727)	1:13:B:ILE:HA	1:13:B:ILE:HD12	4	0.19
(2,1727)	1:13:B:ILE:HA	1:13:B:ILE:HD13	4	0.19
(2,1727)	1:13:B:ILE:HA	1:13:B:ILE:HD11	13	0.19
(2,1727)	1:13:B:ILE:HA	1:13:B:ILE:HD12	13	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1727)	1:13:B:ILE:HA	1:13:B:ILE:HD13	13	0.19
(2,1727)	1:13:B:ILE:HA	1:13:B:ILE:HD11	18	0.19
(2,1727)	1:13:B:ILE:HA	1:13:B:ILE:HD12	18	0.19
(2,1727)	1:13:B:ILE:HA	1:13:B:ILE:HD13	18	0.19
(2,1723)	1:67:B:ASN:H	1:67:B:ASN:HD22	15	0.19
(2,1582)	1:37:B:LYS:HG3	1:35:B:GLN:HB3	17	0.19
(2,1561)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	3	0.19
(2,1561)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	10	0.19
(2,1561)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	11	0.19
(2,1561)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	17	0.19
(2,1547)	1:41:B:SER:H	1:26:B:LYS:HG3	22	0.19
(2,1530)	1:30:B:SER:HB2	1:30:B:SER:HA	16	0.19
(2,1496)	1:26:B:LYS:H	1:26:B:LYS:HB2	9	0.19
(2,1494)	1:27:B:LEU:H	1:26:B:LYS:HB3	25	0.19
(2,1468)	1:25:B:GLY:HA2	1:45:B:TYR:HB3	21	0.19
(2,1465)	1:87:B:MET:HG3	1:87:B:MET:H	5	0.19
(2,1457)	1:85:B:LYS:H	1:84:B:ILE:HG12	17	0.19
(2,1457)	1:85:B:LYS:H	1:84:B:ILE:HG12	21	0.19
(2,1452)	1:71:B:THR:H	1:71:B:THR:HB	5	0.19
(2,1452)	1:71:B:THR:H	1:71:B:THR:HB	21	0.19
(2,1433)	1:33:B:GLY:HA2	1:86:B:GLY:HA3	5	0.19
(2,1409)	1:45:B:TYR:HB2	1:24:B:LYS:HB2	24	0.19
(2,1405)	1:10:B:MET:H	1:10:B:MET:HB3	20	0.19
(2,1368)	1:48:B:SER:H	1:47:B:ILE:HG12	2	0.19
(2,1363)	1:19:B:LYS:H	1:15:B:SER:H	20	0.19
(2,1359)	1:12:B:SER:H	1:13:B:ILE:HA	2	0.19
(2,1359)	1:12:B:SER:H	1:13:B:ILE:HA	20	0.19
(2,1355)	1:48:B:SER:H	1:47:B:ILE:HG13	13	0.19
(2,1343)	1:49:B:TYR:H	1:48:B:SER:HB3	25	0.19
(2,1336)	1:37:B:LYS:H	1:36:B:LEU:HB3	21	0.19
(2,1334)	1:27:B:LEU:H	1:27:B:LEU:HG	19	0.19
(2,1295)	1:49:B:TYR:H	1:49:B:TYR:HD1	1	0.19
(2,1295)	1:49:B:TYR:H	1:49:B:TYR:HD2	1	0.19
(2,1289)	1:90:B:GLU:HG3	1:88:B:TYR:HE1	19	0.19
(2,1289)	1:90:B:GLU:HG3	1:88:B:TYR:HE2	19	0.19
(2,1285)	1:31:B:MET:H	1:31:B:MET:HB3	16	0.19
(2,1209)	1:85:B:LYS:H	1:84:B:ILE:HA	11	0.19
(2,1203)	1:22:B:LYS:H	1:21:B:ASN:HB2	13	0.19
(2,1196)	1:84:B:ILE:H	1:82:B:LEU:HB2	17	0.19
(2,1147)	1:57:B:PHE:HB2	1:60:B:GLY:H	14	0.19
(2,1127)	1:83:B:ASN:HB2	1:83:B:ASN:H	19	0.19
(2,1119)	1:39:B:THR:H	1:39:B:THR:HB	6	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1119)	1:39:B:THR:H	1:39:B:THR:HB	13	0.19
(2,1119)	1:39:B:THR:H	1:39:B:THR:HB	16	0.19
(2,1119)	1:39:B:THR:H	1:39:B:THR:HB	21	0.19
(2,1098)	1:56:B:ILE:H	1:56:B:ILE:HG12	2	0.19
(2,1098)	1:56:B:ILE:H	1:56:B:ILE:HG12	19	0.19
(2,998)	1:35:B:GLN:HG3	1:35:B:GLN:HE22	17	0.19
(2,958)	1:20:B:LEU:H	1:20:B:LEU:HB3	7	0.19
(2,958)	1:20:B:LEU:H	1:20:B:LEU:HB3	14	0.19
(2,939)	1:27:B:LEU:HD11	1:28:B:SER:H	21	0.19
(2,939)	1:27:B:LEU:HD12	1:28:B:SER:H	21	0.19
(2,939)	1:27:B:LEU:HD13	1:28:B:SER:H	21	0.19
(2,930)	1:4:B:LYS:H	1:4:B:LYS:HG3	20	0.19
(2,914)	1:55:B:GLY:H	1:54:B:TRP:HB2	11	0.19
(2,914)	1:55:B:GLY:H	1:54:B:TRP:HB2	23	0.19
(2,912)	1:80:B:ASN:H	1:77:B:ASN:HA	5	0.19
(2,874)	1:68:B:GLU:HG3	1:68:B:GLU:H	5	0.19
(2,874)	1:68:B:GLU:HG3	1:68:B:GLU:H	20	0.19
(2,847)	1:58:B:VAL:H	1:61:B:GLU:HB3	3	0.19
(2,847)	1:58:B:VAL:H	1:61:B:GLU:HB3	9	0.19
(2,847)	1:58:B:VAL:H	1:61:B:GLU:HB3	16	0.19
(2,826)	1:73:B:GLY:H	1:74:B:ASN:HB3	25	0.19
(2,795)	1:19:B:LYS:HB3	1:19:B:LYS:H	1	0.19
(2,795)	1:19:B:LYS:HB3	1:19:B:LYS:H	20	0.19
(2,765)	1:89:B:ILE:H	1:87:B:MET:HG3	22	0.19
(2,725)	1:26:B:LYS:HE3	1:42:B:ASN:H	1	0.19
(2,720)	1:40:B:SER:HB3	1:27:B:LEU:HB3	12	0.19
(2,588)	1:81:B:LYS:H	1:80:B:ASN:HB3	17	0.19
(2,557)	1:20:B:LEU:HB3	1:54:B:TRP:HZ2	16	0.19
(2,549)	1:58:B:VAL:H	1:61:B:GLU:HB2	11	0.19
(2,549)	1:58:B:VAL:H	1:61:B:GLU:HB2	17	0.19
(2,531)	1:93:B:GLN:HE22	1:92:B:LYS:HB3	20	0.19
(2,469)	1:57:B:PHE:HZ	1:56:B:ILE:HA	21	0.19
(2,464)	1:70:B:SER:HB3	1:69:B:LYS:HB3	14	0.19
(2,417)	1:41:B:SER:HB2	1:41:B:SER:HA	2	0.19
(2,417)	1:41:B:SER:HB2	1:41:B:SER:HA	3	0.19
(2,417)	1:41:B:SER:HB2	1:41:B:SER:HA	17	0.19
(2,410)	1:89:B:ILE:H	1:88:B:TYR:HD1	15	0.19
(2,410)	1:89:B:ILE:H	1:88:B:TYR:HD2	15	0.19
(2,395)	1:88:B:TYR:HB2	1:59:B:ASN:H	23	0.19
(2,383)	1:84:B:ILE:HG12	1:84:B:ILE:HA	5	0.19
(2,371)	1:89:B:ILE:HB	1:88:B:TYR:HA	24	0.19
(2,354)	1:56:B:ILE:HB	1:66:B:PHE:HZ	17	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,321)	1:29:B:LEU:HB2	1:38:B:ALA:HA	6	0.19
(2,321)	1:29:B:LEU:HB2	1:38:B:ALA:HA	21	0.19
(2,305)	1:63:B:VAL:H	1:58:B:VAL:H	12	0.19
(2,295)	1:13:B:ILE:HA	1:13:B:ILE:HD11	4	0.19
(2,295)	1:13:B:ILE:HA	1:13:B:ILE:HD12	4	0.19
(2,295)	1:13:B:ILE:HA	1:13:B:ILE:HD13	4	0.19
(2,295)	1:13:B:ILE:HA	1:13:B:ILE:HD11	13	0.19
(2,295)	1:13:B:ILE:HA	1:13:B:ILE:HD12	13	0.19
(2,295)	1:13:B:ILE:HA	1:13:B:ILE:HD13	13	0.19
(2,295)	1:13:B:ILE:HA	1:13:B:ILE:HD11	18	0.19
(2,295)	1:13:B:ILE:HA	1:13:B:ILE:HD12	18	0.19
(2,295)	1:13:B:ILE:HA	1:13:B:ILE:HD13	18	0.19
(2,291)	1:67:B:ASN:H	1:67:B:ASN:HD22	15	0.19
(2,150)	1:37:B:LYS:HG3	1:35:B:GLN:HB3	17	0.19
(2,129)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	3	0.19
(2,129)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	10	0.19
(2,129)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	11	0.19
(2,129)	1:93:B:GLN:HE22	1:93:B:GLN:HG3	17	0.19
(2,115)	1:41:B:SER:H	1:26:B:LYS:HG3	22	0.19
(2,98)	1:30:B:SER:HB2	1:30:B:SER:HA	16	0.19
(2,64)	1:26:B:LYS:H	1:26:B:LYS:HB2	9	0.19
(2,62)	1:27:B:LEU:H	1:26:B:LYS:HB3	25	0.19
(2,36)	1:25:B:GLY:HA2	1:45:B:TYR:HB3	21	0.19
(2,33)	1:87:B:MET:HG3	1:87:B:MET:H	5	0.19
(2,25)	1:85:B:LYS:H	1:84:B:ILE:HG12	17	0.19
(2,25)	1:85:B:LYS:H	1:84:B:ILE:HG12	21	0.19
(1,99)	1:78:B:ASP:H	1:74:B:ASN:O	5	0.19
(1,96)	1:72:B:VAL:O	1:76:B:SER:N	24	0.19
(1,86)	1:66:B:PHE:H	1:54:B:TRP:O	10	0.19
(1,86)	1:66:B:PHE:H	1:54:B:TRP:O	17	0.19
(1,52)	1:78:B:ASP:H	1:74:B:ASN:O	5	0.19
(1,49)	1:72:B:VAL:O	1:76:B:SER:N	24	0.19
(1,39)	1:66:B:PHE:H	1:54:B:TRP:O	10	0.19
(1,39)	1:66:B:PHE:H	1:54:B:TRP:O	17	0.19
(2,2888)	1:75:B:ILE:HG12	1:70:B:SER:HB2	24	0.18
(2,2880)	1:43:B:ALA:H	1:41:B:SER:HA	7	0.18
(2,2880)	1:43:B:ALA:H	1:41:B:SER:HA	12	0.18
(2,2880)	1:43:B:ALA:H	1:41:B:SER:HA	17	0.18
(2,2863)	1:33:B:GLY:HA3	1:86:B:GLY:HA3	16	0.18
(2,2863)	1:33:B:GLY:HA3	1:86:B:GLY:HA3	25	0.18
(2,2862)	1:82:B:LEU:HG	1:84:B:ILE:HA	18	0.18
(2,2837)	1:10:B:MET:H	1:10:B:MET:HB3	24	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2829)	1:49:B:TYR:HD1	1:49:B:TYR:HA	8	0.18
(2,2829)	1:49:B:TYR:HD2	1:49:B:TYR:HA	8	0.18
(2,2820)	1:87:B:MET:HG2	1:87:B:MET:H	6	0.18
(2,2797)	1:25:B:GLY:H	1:24:B:LYS:H	2	0.18
(2,2795)	1:19:B:LYS:H	1:15:B:SER:H	17	0.18
(2,2792)	1:9:B:GLN:H	1:8:B:GLU:HA	17	0.18
(2,2791)	1:12:B:SER:H	1:13:B:ILE:HA	8	0.18
(2,2790)	1:8:B:GLU:H	1:8:B:GLU:HA	17	0.18
(2,2789)	1:11:B:ASN:H	1:11:B:ASN:HA	2	0.18
(2,2789)	1:11:B:ASN:H	1:11:B:ASN:HA	19	0.18
(2,2775)	1:49:B:TYR:H	1:48:B:SER:HB3	24	0.18
(2,2770)	1:41:B:SER:HB3	1:26:B:LYS:H	16	0.18
(2,2768)	1:37:B:LYS:H	1:36:B:LEU:HB3	22	0.18
(2,2732)	1:43:B:ALA:H	1:26:B:LYS:HE3	4	0.18
(2,2721)	1:90:B:GLU:HG3	1:88:B:TYR:HE1	17	0.18
(2,2721)	1:90:B:GLU:HG3	1:88:B:TYR:HE2	17	0.18
(2,2721)	1:90:B:GLU:HG3	1:88:B:TYR:HE1	18	0.18
(2,2721)	1:90:B:GLU:HG3	1:88:B:TYR:HE2	18	0.18
(2,2718)	1:59:B:ASN:HD22	1:59:B:ASN:HB3	7	0.18
(2,2718)	1:59:B:ASN:HD22	1:59:B:ASN:HB3	18	0.18
(2,2718)	1:59:B:ASN:HD22	1:59:B:ASN:HB3	21	0.18
(2,2714)	1:84:B:ILE:H	1:84:B:ILE:HB	20	0.18
(2,2697)	1:36:B:LEU:H	1:35:B:GLN:HB2	13	0.18
(2,2664)	1:40:B:SER:H	1:39:B:THR:HB	24	0.18
(2,2641)	1:85:B:LYS:H	1:84:B:ILE:HA	13	0.18
(2,2635)	1:22:B:LYS:H	1:21:B:ASN:HB2	23	0.18
(2,2611)	1:90:B:GLU:HB2	1:90:B:GLU:H	17	0.18
(2,2595)	1:27:B:LEU:H	1:27:B:LEU:HB2	21	0.18
(2,2580)	1:75:B:ILE:H	1:74:B:ASN:HB3	25	0.18
(2,2579)	1:57:B:PHE:HB2	1:60:B:GLY:H	11	0.18
(2,2551)	1:39:B:THR:H	1:39:B:THR:HB	1	0.18
(2,2551)	1:39:B:THR:H	1:39:B:THR:HB	2	0.18
(2,2551)	1:39:B:THR:H	1:39:B:THR:HB	8	0.18
(2,2551)	1:39:B:THR:H	1:39:B:THR:HB	10	0.18
(2,2551)	1:39:B:THR:H	1:39:B:THR:HB	12	0.18
(2,2551)	1:39:B:THR:H	1:39:B:THR:HB	15	0.18
(2,2551)	1:39:B:THR:H	1:39:B:THR:HB	23	0.18
(2,2479)	1:89:B:ILE:H	1:88:B:TYR:H	22	0.18
(2,2430)	1:35:B:GLN:HG3	1:35:B:GLN:HE22	11	0.18
(2,2390)	1:20:B:LEU:H	1:20:B:LEU:HB3	5	0.18
(2,2390)	1:20:B:LEU:H	1:20:B:LEU:HB3	11	0.18
(2,2390)	1:20:B:LEU:H	1:20:B:LEU:HB3	17	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2362)	1:4:B:LYS:H	1:4:B:LYS:HG3	1	0.18
(2,2362)	1:4:B:LYS:H	1:4:B:LYS:HG3	3	0.18
(2,2362)	1:4:B:LYS:H	1:4:B:LYS:HG3	15	0.18
(2,2358)	1:79:B:ILE:H	1:78:B:ASP:H	11	0.18
(2,2351)	1:64:B:TYR:H	1:62:B:LYS:HA	5	0.18
(2,2325)	1:60:B:GLY:H	1:59:B:ASN:HB3	8	0.18
(2,2300)	1:54:B:TRP:H	1:54:B:TRP:HB3	4	0.18
(2,2300)	1:54:B:TRP:H	1:54:B:TRP:HB3	10	0.18
(2,2300)	1:54:B:TRP:H	1:54:B:TRP:HB3	23	0.18
(2,2284)	1:66:B:PHE:H	1:64:B:TYR:HB3	7	0.18
(2,2284)	1:66:B:PHE:H	1:64:B:TYR:HB3	25	0.18
(2,2279)	1:58:B:VAL:H	1:61:B:GLU:HB3	6	0.18
(2,2279)	1:58:B:VAL:H	1:61:B:GLU:HB3	11	0.18
(2,2279)	1:58:B:VAL:H	1:61:B:GLU:HB3	20	0.18
(2,2261)	1:50:B:GLU:H	1:49:B:TYR:HB3	12	0.18
(2,2227)	1:19:B:LYS:HB3	1:19:B:LYS:H	9	0.18
(2,2227)	1:19:B:LYS:HB3	1:19:B:LYS:H	10	0.18
(2,2227)	1:19:B:LYS:HB3	1:19:B:LYS:H	18	0.18
(2,2227)	1:19:B:LYS:HB3	1:19:B:LYS:H	22	0.18
(2,2157)	1:26:B:LYS:HE3	1:42:B:ASN:H	9	0.18
(2,2156)	1:38:B:ALA:H	1:37:B:LYS:HB2	19	0.18
(2,2156)	1:38:B:ALA:H	1:37:B:LYS:HB2	20	0.18
(2,2151)	1:62:B:LYS:HD3	1:62:B:LYS:HG2	15	0.18
(2,2097)	1:42:B:ASN:H	1:41:B:SER:HB3	8	0.18
(2,2076)	1:88:B:TYR:HD1	1:89:B:ILE:HA	22	0.18
(2,2076)	1:88:B:TYR:HD2	1:89:B:ILE:HA	22	0.18
(2,1989)	1:20:B:LEU:HB3	1:54:B:TRP:HZ2	22	0.18
(2,1989)	1:20:B:LEU:HB3	1:54:B:TRP:HZ2	24	0.18
(2,1981)	1:58:B:VAL:H	1:61:B:GLU:HB2	18	0.18
(2,1971)	1:79:B:ILE:H	1:82:B:LEU:HG	23	0.18
(2,1917)	1:46:B:GLY:H	1:25:B:GLY:HA3	3	0.18
(2,1901)	1:57:B:PHE:HZ	1:56:B:ILE:HA	3	0.18
(2,1901)	1:57:B:PHE:HZ	1:56:B:ILE:HA	4	0.18
(2,1896)	1:70:B:SER:HB3	1:69:B:LYS:HB3	6	0.18
(2,1880)	1:80:B:ASN:HD22	1:79:B:ILE:HB	16	0.18
(2,1873)	1:41:B:SER:H	1:26:B:LYS:HB3	23	0.18
(2,1866)	1:13:B:ILE:H	1:13:B:ILE:HD11	5	0.18
(2,1866)	1:13:B:ILE:H	1:13:B:ILE:HD12	5	0.18
(2,1866)	1:13:B:ILE:H	1:13:B:ILE:HD13	5	0.18
(2,1849)	1:41:B:SER:HB2	1:41:B:SER:HA	5	0.18
(2,1849)	1:41:B:SER:HB2	1:41:B:SER:HA	6	0.18
(2,1849)	1:41:B:SER:HB2	1:41:B:SER:HA	24	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1834)	1:44:B:GLY:H	1:43:B:ALA:HA	5	0.18
(2,1832)	1:10:B:MET:HA	1:10:B:MET:HB2	10	0.18
(2,1832)	1:10:B:MET:HA	1:10:B:MET:HB2	13	0.18
(2,1832)	1:10:B:MET:HA	1:10:B:MET:HB2	22	0.18
(2,1827)	1:88:B:TYR:HB2	1:59:B:ASN:H	5	0.18
(2,1827)	1:88:B:TYR:HB2	1:59:B:ASN:H	13	0.18
(2,1827)	1:88:B:TYR:HB2	1:59:B:ASN:H	18	0.18
(2,1803)	1:89:B:ILE:HB	1:88:B:TYR:HA	5	0.18
(2,1803)	1:89:B:ILE:HB	1:88:B:TYR:HA	16	0.18
(2,1803)	1:89:B:ILE:HB	1:88:B:TYR:HA	23	0.18
(2,1753)	1:29:B:LEU:HB2	1:38:B:ALA:HA	2	0.18
(2,1753)	1:29:B:LEU:HB2	1:38:B:ALA:HA	4	0.18
(2,1753)	1:29:B:LEU:HB2	1:38:B:ALA:HA	9	0.18
(2,1753)	1:29:B:LEU:HB2	1:38:B:ALA:HA	17	0.18
(2,1731)	1:31:B:MET:H	1:31:B:MET:HG2	1	0.18
(2,1723)	1:67:B:ASN:H	1:67:B:ASN:HD22	11	0.18
(2,1713)	1:38:B:ALA:H	1:37:B:LYS:HB3	10	0.18
(2,1647)	1:46:B:GLY:HA2	1:47:B:ILE:HG12	13	0.18
(2,1560)	1:29:B:LEU:H	1:29:B:LEU:HB3	4	0.18
(2,1560)	1:29:B:LEU:H	1:29:B:LEU:HB3	6	0.18
(2,1547)	1:41:B:SER:H	1:26:B:LYS:HG3	20	0.18
(2,1530)	1:30:B:SER:HB2	1:30:B:SER:HA	11	0.18
(2,1530)	1:30:B:SER:HB2	1:30:B:SER:HA	13	0.18
(2,1522)	1:78:B:ASP:H	1:77:B:ASN:HB2	2	0.18
(2,1522)	1:78:B:ASP:H	1:77:B:ASN:HB2	4	0.18
(2,1512)	1:27:B:LEU:HB3	1:40:B:SER:HA	24	0.18
(2,1502)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	18	0.18
(2,1496)	1:26:B:LYS:H	1:26:B:LYS:HB2	5	0.18
(2,1481)	1:85:B:LYS:HB3	1:85:B:LYS:H	2	0.18
(2,1481)	1:85:B:LYS:HB3	1:85:B:LYS:H	25	0.18
(2,1468)	1:25:B:GLY:HA2	1:45:B:TYR:HB3	22	0.18
(2,1465)	1:87:B:MET:HG3	1:87:B:MET:H	4	0.18
(2,1465)	1:87:B:MET:HG3	1:87:B:MET:H	7	0.18
(2,1465)	1:87:B:MET:HG3	1:87:B:MET:H	21	0.18
(2,1449)	1:43:B:ALA:H	1:41:B:SER:HA	7	0.18
(2,1449)	1:43:B:ALA:H	1:41:B:SER:HA	12	0.18
(2,1449)	1:43:B:ALA:H	1:41:B:SER:HA	17	0.18
(2,1432)	1:33:B:GLY:HA3	1:86:B:GLY:HA3	16	0.18
(2,1432)	1:33:B:GLY:HA3	1:86:B:GLY:HA3	25	0.18
(2,1431)	1:82:B:LEU:HG	1:84:B:ILE:HA	18	0.18
(2,1427)	1:75:B:ILE:HG12	1:70:B:SER:HB2	24	0.18
(2,1405)	1:10:B:MET:H	1:10:B:MET:HB3	24	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1397)	1:49:B:TYR:HD1	1:49:B:TYR:HA	8	0.18
(2,1397)	1:49:B:TYR:HD2	1:49:B:TYR:HA	8	0.18
(2,1388)	1:87:B:MET:HG2	1:87:B:MET:H	6	0.18
(2,1365)	1:25:B:GLY:H	1:24:B:LYS:H	2	0.18
(2,1363)	1:19:B:LYS:H	1:15:B:SER:H	17	0.18
(2,1360)	1:9:B:GLN:H	1:8:B:GLU:HA	17	0.18
(2,1359)	1:12:B:SER:H	1:13:B:ILE:HA	8	0.18
(2,1358)	1:8:B:GLU:H	1:8:B:GLU:HA	17	0.18
(2,1357)	1:11:B:ASN:H	1:11:B:ASN:HA	2	0.18
(2,1357)	1:11:B:ASN:H	1:11:B:ASN:HA	19	0.18
(2,1343)	1:49:B:TYR:H	1:48:B:SER:HB3	24	0.18
(2,1338)	1:41:B:SER:HB3	1:26:B:LYS:H	16	0.18
(2,1336)	1:37:B:LYS:H	1:36:B:LEU:HB3	22	0.18
(2,1300)	1:43:B:ALA:H	1:26:B:LYS:HE3	4	0.18
(2,1289)	1:90:B:GLU:HG3	1:88:B:TYR:HE1	17	0.18
(2,1289)	1:90:B:GLU:HG3	1:88:B:TYR:HE2	17	0.18
(2,1289)	1:90:B:GLU:HG3	1:88:B:TYR:HE1	18	0.18
(2,1289)	1:90:B:GLU:HG3	1:88:B:TYR:HE2	18	0.18
(2,1286)	1:59:B:ASN:HD22	1:59:B:ASN:HB3	7	0.18
(2,1286)	1:59:B:ASN:HD22	1:59:B:ASN:HB3	18	0.18
(2,1286)	1:59:B:ASN:HD22	1:59:B:ASN:HB3	21	0.18
(2,1282)	1:84:B:ILE:H	1:84:B:ILE:HB	20	0.18
(2,1265)	1:36:B:LEU:H	1:35:B:GLN:HB2	13	0.18
(2,1232)	1:40:B:SER:H	1:39:B:THR:HB	24	0.18
(2,1209)	1:85:B:LYS:H	1:84:B:ILE:HA	13	0.18
(2,1203)	1:22:B:LYS:H	1:21:B:ASN:HB2	23	0.18
(2,1179)	1:90:B:GLU:HB2	1:90:B:GLU:H	17	0.18
(2,1163)	1:27:B:LEU:H	1:27:B:LEU:HB2	21	0.18
(2,1148)	1:75:B:ILE:H	1:74:B:ASN:HB3	25	0.18
(2,1147)	1:57:B:PHE:HB2	1:60:B:GLY:H	11	0.18
(2,1119)	1:39:B:THR:H	1:39:B:THR:HB	1	0.18
(2,1119)	1:39:B:THR:H	1:39:B:THR:HB	2	0.18
(2,1119)	1:39:B:THR:H	1:39:B:THR:HB	8	0.18
(2,1119)	1:39:B:THR:H	1:39:B:THR:HB	10	0.18
(2,1119)	1:39:B:THR:H	1:39:B:THR:HB	12	0.18
(2,1119)	1:39:B:THR:H	1:39:B:THR:HB	15	0.18
(2,1119)	1:39:B:THR:H	1:39:B:THR:HB	23	0.18
(2,1047)	1:89:B:ILE:H	1:88:B:TYR:H	22	0.18
(2,998)	1:35:B:GLN:HG3	1:35:B:GLN:HE22	11	0.18
(2,958)	1:20:B:LEU:H	1:20:B:LEU:HB3	5	0.18
(2,958)	1:20:B:LEU:H	1:20:B:LEU:HB3	11	0.18
(2,958)	1:20:B:LEU:H	1:20:B:LEU:HB3	17	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,930)	1:4:B:LYS:H	1:4:B:LYS:HG3	1	0.18
(2,930)	1:4:B:LYS:H	1:4:B:LYS:HG3	3	0.18
(2,930)	1:4:B:LYS:H	1:4:B:LYS:HG3	15	0.18
(2,926)	1:79:B:ILE:H	1:78:B:ASP:H	11	0.18
(2,919)	1:64:B:TYR:H	1:62:B:LYS:HA	5	0.18
(2,893)	1:60:B:GLY:H	1:59:B:ASN:HB3	8	0.18
(2,868)	1:54:B:TRP:H	1:54:B:TRP:HB3	4	0.18
(2,868)	1:54:B:TRP:H	1:54:B:TRP:HB3	10	0.18
(2,868)	1:54:B:TRP:H	1:54:B:TRP:HB3	23	0.18
(2,852)	1:66:B:PHE:H	1:64:B:TYR:HB3	7	0.18
(2,852)	1:66:B:PHE:H	1:64:B:TYR:HB3	25	0.18
(2,847)	1:58:B:VAL:H	1:61:B:GLU:HB3	6	0.18
(2,847)	1:58:B:VAL:H	1:61:B:GLU:HB3	11	0.18
(2,847)	1:58:B:VAL:H	1:61:B:GLU:HB3	20	0.18
(2,829)	1:50:B:GLU:H	1:49:B:TYR:HB3	12	0.18
(2,795)	1:19:B:LYS:HB3	1:19:B:LYS:H	9	0.18
(2,795)	1:19:B:LYS:HB3	1:19:B:LYS:H	10	0.18
(2,795)	1:19:B:LYS:HB3	1:19:B:LYS:H	18	0.18
(2,795)	1:19:B:LYS:HB3	1:19:B:LYS:H	22	0.18
(2,725)	1:26:B:LYS:HE3	1:42:B:ASN:H	9	0.18
(2,724)	1:38:B:ALA:H	1:37:B:LYS:HB2	19	0.18
(2,724)	1:38:B:ALA:H	1:37:B:LYS:HB2	20	0.18
(2,719)	1:62:B:LYS:HD3	1:62:B:LYS:HG2	15	0.18
(2,665)	1:42:B:ASN:H	1:41:B:SER:HB3	8	0.18
(2,644)	1:88:B:TYR:HD1	1:89:B:ILE:HA	22	0.18
(2,644)	1:88:B:TYR:HD2	1:89:B:ILE:HA	22	0.18
(2,557)	1:20:B:LEU:HB3	1:54:B:TRP:HZ2	22	0.18
(2,557)	1:20:B:LEU:HB3	1:54:B:TRP:HZ2	24	0.18
(2,549)	1:58:B:VAL:H	1:61:B:GLU:HB2	18	0.18
(2,539)	1:79:B:ILE:H	1:82:B:LEU:HG	23	0.18
(2,485)	1:46:B:GLY:H	1:25:B:GLY:HA3	3	0.18
(2,469)	1:57:B:PHE:HZ	1:56:B:ILE:HA	3	0.18
(2,469)	1:57:B:PHE:HZ	1:56:B:ILE:HA	4	0.18
(2,464)	1:70:B:SER:HB3	1:69:B:LYS:HB3	6	0.18
(2,448)	1:80:B:ASN:HD22	1:79:B:ILE:HB	16	0.18
(2,441)	1:41:B:SER:H	1:26:B:LYS:HB3	23	0.18
(2,434)	1:13:B:ILE:H	1:13:B:ILE:HD11	5	0.18
(2,434)	1:13:B:ILE:H	1:13:B:ILE:HD12	5	0.18
(2,434)	1:13:B:ILE:H	1:13:B:ILE:HD13	5	0.18
(2,417)	1:41:B:SER:HB2	1:41:B:SER:HA	5	0.18
(2,417)	1:41:B:SER:HB2	1:41:B:SER:HA	6	0.18
(2,417)	1:41:B:SER:HB2	1:41:B:SER:HA	24	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,402)	1:44:B:GLY:H	1:43:B:ALA:HA	5	0.18
(2,400)	1:10:B:MET:HA	1:10:B:MET:HB2	10	0.18
(2,400)	1:10:B:MET:HA	1:10:B:MET:HB2	13	0.18
(2,400)	1:10:B:MET:HA	1:10:B:MET:HB2	22	0.18
(2,395)	1:88:B:TYR:HB2	1:59:B:ASN:H	5	0.18
(2,395)	1:88:B:TYR:HB2	1:59:B:ASN:H	13	0.18
(2,395)	1:88:B:TYR:HB2	1:59:B:ASN:H	18	0.18
(2,371)	1:89:B:ILE:HB	1:88:B:TYR:HA	5	0.18
(2,371)	1:89:B:ILE:HB	1:88:B:TYR:HA	16	0.18
(2,371)	1:89:B:ILE:HB	1:88:B:TYR:HA	23	0.18
(2,321)	1:29:B:LEU:HB2	1:38:B:ALA:HA	2	0.18
(2,321)	1:29:B:LEU:HB2	1:38:B:ALA:HA	4	0.18
(2,321)	1:29:B:LEU:HB2	1:38:B:ALA:HA	9	0.18
(2,321)	1:29:B:LEU:HB2	1:38:B:ALA:HA	17	0.18
(2,299)	1:31:B:MET:H	1:31:B:MET:HG2	1	0.18
(2,291)	1:67:B:ASN:H	1:67:B:ASN:HD22	11	0.18
(2,281)	1:38:B:ALA:H	1:37:B:LYS:HB3	10	0.18
(2,215)	1:46:B:GLY:HA2	1:47:B:ILE:HG12	13	0.18
(2,128)	1:29:B:LEU:H	1:29:B:LEU:HB3	4	0.18
(2,128)	1:29:B:LEU:H	1:29:B:LEU:HB3	6	0.18
(2,115)	1:41:B:SER:H	1:26:B:LYS:HG3	20	0.18
(2,98)	1:30:B:SER:HB2	1:30:B:SER:HA	11	0.18
(2,98)	1:30:B:SER:HB2	1:30:B:SER:HA	13	0.18
(2,90)	1:78:B:ASP:H	1:77:B:ASN:HB2	2	0.18
(2,90)	1:78:B:ASP:H	1:77:B:ASN:HB2	4	0.18
(2,80)	1:27:B:LEU:HB3	1:40:B:SER:HA	24	0.18
(2,70)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	18	0.18
(2,64)	1:26:B:LYS:H	1:26:B:LYS:HB2	5	0.18
(2,49)	1:85:B:LYS:HB3	1:85:B:LYS:H	2	0.18
(2,49)	1:85:B:LYS:HB3	1:85:B:LYS:H	25	0.18
(2,36)	1:25:B:GLY:HA2	1:45:B:TYR:HB3	22	0.18
(2,33)	1:87:B:MET:HG3	1:87:B:MET:H	4	0.18
(2,33)	1:87:B:MET:HG3	1:87:B:MET:H	7	0.18
(2,33)	1:87:B:MET:HG3	1:87:B:MET:H	21	0.18
(1,99)	1:78:B:ASP:H	1:74:B:ASN:O	1	0.18
(1,99)	1:78:B:ASP:H	1:74:B:ASN:O	6	0.18
(1,99)	1:78:B:ASP:H	1:74:B:ASN:O	7	0.18
(1,99)	1:78:B:ASP:H	1:74:B:ASN:O	13	0.18
(1,96)	1:72:B:VAL:O	1:76:B:SER:N	18	0.18
(1,96)	1:72:B:VAL:O	1:76:B:SER:N	21	0.18
(1,86)	1:66:B:PHE:H	1:54:B:TRP:O	4	0.18
(1,86)	1:66:B:PHE:H	1:54:B:TRP:O	18	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,68)	1:26:B:LYS:H	1:41:B:SER:O	21	0.18
(1,52)	1:78:B:ASP:H	1:74:B:ASN:O	1	0.18
(1,52)	1:78:B:ASP:H	1:74:B:ASN:O	6	0.18
(1,52)	1:78:B:ASP:H	1:74:B:ASN:O	7	0.18
(1,52)	1:78:B:ASP:H	1:74:B:ASN:O	13	0.18
(1,49)	1:72:B:VAL:O	1:76:B:SER:N	18	0.18
(1,49)	1:72:B:VAL:O	1:76:B:SER:N	21	0.18
(1,39)	1:66:B:PHE:H	1:54:B:TRP:O	4	0.18
(1,39)	1:66:B:PHE:H	1:54:B:TRP:O	18	0.18
(1,21)	1:26:B:LYS:H	1:41:B:SER:O	21	0.18
(2,2884)	1:26:B:LYS:HG2	1:26:B:LYS:H	22	0.17
(2,2864)	1:33:B:GLY:HA2	1:86:B:GLY:HA3	20	0.17
(2,2863)	1:33:B:GLY:HA3	1:86:B:GLY:HA3	8	0.17
(2,2862)	1:82:B:LEU:HG	1:84:B:ILE:HA	2	0.17
(2,2859)	1:87:B:MET:H	1:10:B:MET:HG3	13	0.17
(2,2855)	1:66:B:PHE:HA	1:70:B:SER:HB2	23	0.17
(2,2848)	1:49:B:TYR:HA	1:52:B:LYS:HE3	4	0.17
(2,2837)	1:10:B:MET:H	1:10:B:MET:HB3	21	0.17
(2,2820)	1:87:B:MET:HG2	1:87:B:MET:H	15	0.17
(2,2820)	1:87:B:MET:HG2	1:87:B:MET:H	24	0.17
(2,2812)	1:82:B:LEU:H	1:82:B:LEU:HB3	8	0.17
(2,2798)	1:4:B:LYS:H	1:4:B:LYS:HB3	18	0.17
(2,2791)	1:12:B:SER:H	1:13:B:ILE:HA	11	0.17
(2,2789)	1:11:B:ASN:H	1:11:B:ASN:HA	14	0.17
(2,2789)	1:11:B:ASN:H	1:11:B:ASN:HA	23	0.17
(2,2774)	1:61:B:GLU:H	1:61:B:GLU:HB3	22	0.17
(2,2774)	1:61:B:GLU:H	1:61:B:GLU:HB3	23	0.17
(2,2768)	1:37:B:LYS:H	1:36:B:LEU:HB3	12	0.17
(2,2766)	1:27:B:LEU:H	1:27:B:LEU:HG	9	0.17
(2,2761)	1:82:B:LEU:H	1:83:B:ASN:HA	2	0.17
(2,2761)	1:82:B:LEU:H	1:83:B:ASN:HA	10	0.17
(2,2721)	1:90:B:GLU:HG3	1:88:B:TYR:HE1	25	0.17
(2,2721)	1:90:B:GLU:HG3	1:88:B:TYR:HE2	25	0.17
(2,2709)	1:84:B:ILE:H	1:84:B:ILE:HD11	14	0.17
(2,2709)	1:84:B:ILE:H	1:84:B:ILE:HD12	14	0.17
(2,2709)	1:84:B:ILE:H	1:84:B:ILE:HD13	14	0.17
(2,2654)	1:38:B:ALA:H	1:29:B:LEU:HB2	20	0.17
(2,2638)	1:91:B:ILE:HG21	1:91:B:ILE:HD11	25	0.17
(2,2638)	1:91:B:ILE:HG21	1:91:B:ILE:HD12	25	0.17
(2,2638)	1:91:B:ILE:HG21	1:91:B:ILE:HD13	25	0.17
(2,2638)	1:91:B:ILE:HG22	1:91:B:ILE:HD11	25	0.17
(2,2638)	1:91:B:ILE:HG22	1:91:B:ILE:HD12	25	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2638)	1:91:B:ILE:HG22	1:91:B:ILE:HD13	25	0.17
(2,2638)	1:91:B:ILE:HG23	1:91:B:ILE:HD11	25	0.17
(2,2638)	1:91:B:ILE:HG23	1:91:B:ILE:HD12	25	0.17
(2,2638)	1:91:B:ILE:HG23	1:91:B:ILE:HD13	25	0.17
(2,2635)	1:22:B:LYS:H	1:21:B:ASN:HB2	20	0.17
(2,2611)	1:90:B:GLU:HB2	1:90:B:GLU:H	23	0.17
(2,2595)	1:27:B:LEU:H	1:27:B:LEU:HB2	2	0.17
(2,2595)	1:27:B:LEU:H	1:27:B:LEU:HB2	7	0.17
(2,2536)	1:64:B:TYR:H	1:63:B:VAL:H	4	0.17
(2,2536)	1:64:B:TYR:H	1:63:B:VAL:H	17	0.17
(2,2536)	1:64:B:TYR:H	1:63:B:VAL:H	24	0.17
(2,2530)	1:56:B:ILE:H	1:56:B:ILE:HG12	5	0.17
(2,2530)	1:56:B:ILE:H	1:56:B:ILE:HG12	7	0.17
(2,2530)	1:56:B:ILE:H	1:56:B:ILE:HG12	9	0.17
(2,2465)	1:16:B:VAL:H	1:14:B:ASN:HB3	13	0.17
(2,2456)	1:85:B:LYS:HG3	1:85:B:LYS:H	7	0.17
(2,2430)	1:35:B:GLN:HG3	1:35:B:GLN:HE22	16	0.17
(2,2404)	1:79:B:ILE:HD11	1:64:B:TYR:HD1	7	0.17
(2,2404)	1:79:B:ILE:HD11	1:64:B:TYR:HD2	7	0.17
(2,2404)	1:79:B:ILE:HD12	1:64:B:TYR:HD1	7	0.17
(2,2404)	1:79:B:ILE:HD12	1:64:B:TYR:HD2	7	0.17
(2,2404)	1:79:B:ILE:HD13	1:64:B:TYR:HD1	7	0.17
(2,2404)	1:79:B:ILE:HD13	1:64:B:TYR:HD2	7	0.17
(2,2390)	1:20:B:LEU:H	1:20:B:LEU:HB3	1	0.17
(2,2390)	1:20:B:LEU:H	1:20:B:LEU:HB3	3	0.17
(2,2362)	1:4:B:LYS:H	1:4:B:LYS:HG3	2	0.17
(2,2362)	1:4:B:LYS:H	1:4:B:LYS:HG3	7	0.17
(2,2362)	1:4:B:LYS:H	1:4:B:LYS:HG3	10	0.17
(2,2362)	1:4:B:LYS:H	1:4:B:LYS:HG3	12	0.17
(2,2362)	1:4:B:LYS:H	1:4:B:LYS:HG3	17	0.17
(2,2362)	1:4:B:LYS:H	1:4:B:LYS:HG3	21	0.17
(2,2351)	1:64:B:TYR:H	1:62:B:LYS:HA	16	0.17
(2,2346)	1:55:B:GLY:H	1:54:B:TRP:HB2	3	0.17
(2,2346)	1:55:B:GLY:H	1:54:B:TRP:HB2	4	0.17
(2,2344)	1:80:B:ASN:H	1:77:B:ASN:HA	2	0.17
(2,2300)	1:54:B:TRP:H	1:54:B:TRP:HB3	20	0.17
(2,2289)	1:89:B:ILE:H	1:89:B:ILE:HD11	18	0.17
(2,2289)	1:89:B:ILE:H	1:89:B:ILE:HD12	18	0.17
(2,2289)	1:89:B:ILE:H	1:89:B:ILE:HD13	18	0.17
(2,2284)	1:66:B:PHE:H	1:64:B:TYR:HB3	4	0.17
(2,2279)	1:58:B:VAL:H	1:61:B:GLU:HB3	8	0.17
(2,2279)	1:58:B:VAL:H	1:61:B:GLU:HB3	17	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2227)	1:19:B:LYS:HB3	1:19:B:LYS:H	11	0.17
(2,2227)	1:19:B:LYS:HB3	1:19:B:LYS:H	13	0.17
(2,2197)	1:89:B:ILE:H	1:87:B:MET:HG3	5	0.17
(2,2151)	1:62:B:LYS:HD3	1:62:B:LYS:HG2	2	0.17
(2,2085)	1:62:B:LYS:HB3	1:62:B:LYS:H	23	0.17
(2,2076)	1:88:B:TYR:HD1	1:89:B:ILE:HA	6	0.17
(2,2076)	1:88:B:TYR:HD2	1:89:B:ILE:HA	6	0.17
(2,2020)	1:81:B:LYS:H	1:80:B:ASN:HB3	5	0.17
(2,1982)	1:35:B:GLN:H	1:31:B:MET:HA	1	0.17
(2,1981)	1:58:B:VAL:H	1:61:B:GLU:HB2	4	0.17
(2,1981)	1:58:B:VAL:H	1:61:B:GLU:HB2	14	0.17
(2,1981)	1:58:B:VAL:H	1:61:B:GLU:HB2	15	0.17
(2,1981)	1:58:B:VAL:H	1:61:B:GLU:HB2	21	0.17
(2,1981)	1:58:B:VAL:H	1:61:B:GLU:HB2	22	0.17
(2,1965)	1:46:B:GLY:H	1:45:B:TYR:HD1	25	0.17
(2,1965)	1:46:B:GLY:H	1:45:B:TYR:HD2	25	0.17
(2,1964)	1:93:B:GLN:H	1:93:B:GLN:HB3	3	0.17
(2,1917)	1:46:B:GLY:H	1:25:B:GLY:HA3	22	0.17
(2,1901)	1:57:B:PHE:HZ	1:56:B:ILE:HA	1	0.17
(2,1901)	1:57:B:PHE:HZ	1:56:B:ILE:HA	2	0.17
(2,1901)	1:57:B:PHE:HZ	1:56:B:ILE:HA	6	0.17
(2,1901)	1:57:B:PHE:HZ	1:56:B:ILE:HA	23	0.17
(2,1880)	1:80:B:ASN:HD22	1:79:B:ILE:HB	21	0.17
(2,1849)	1:41:B:SER:HB2	1:41:B:SER:HA	20	0.17
(2,1827)	1:88:B:TYR:HB2	1:59:B:ASN:H	12	0.17
(2,1827)	1:88:B:TYR:HB2	1:59:B:ASN:H	17	0.17
(2,1815)	1:84:B:ILE:HG12	1:84:B:ILE:HA	25	0.17
(2,1803)	1:89:B:ILE:HB	1:88:B:TYR:HA	4	0.17
(2,1803)	1:89:B:ILE:HB	1:88:B:TYR:HA	7	0.17
(2,1786)	1:56:B:ILE:HB	1:66:B:PHE:HZ	5	0.17
(2,1786)	1:56:B:ILE:HB	1:66:B:PHE:HZ	16	0.17
(2,1786)	1:56:B:ILE:HB	1:66:B:PHE:HZ	18	0.17
(2,1786)	1:56:B:ILE:HB	1:66:B:PHE:HZ	25	0.17
(2,1737)	1:63:B:VAL:H	1:58:B:VAL:H	4	0.17
(2,1726)	1:22:B:LYS:HG2	1:22:B:LYS:HE3	18	0.17
(2,1723)	1:67:B:ASN:H	1:67:B:ASN:HD22	5	0.17
(2,1723)	1:67:B:ASN:H	1:67:B:ASN:HD22	24	0.17
(2,1713)	1:38:B:ALA:H	1:37:B:LYS:HB3	5	0.17
(2,1713)	1:38:B:ALA:H	1:37:B:LYS:HB3	8	0.17
(2,1651)	1:93:B:GLN:H	1:92:B:LYS:HB2	17	0.17
(2,1651)	1:93:B:GLN:H	1:92:B:LYS:HB2	19	0.17
(2,1635)	1:56:B:ILE:HA	1:54:B:TRP:HE3	19	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1560)	1:29:B:LEU:H	1:29:B:LEU:HB3	16	0.17
(2,1560)	1:29:B:LEU:H	1:29:B:LEU:HB3	18	0.17
(2,1560)	1:29:B:LEU:H	1:29:B:LEU:HB3	25	0.17
(2,1532)	1:82:B:LEU:H	1:82:B:LEU:HG	20	0.17
(2,1530)	1:30:B:SER:HB2	1:30:B:SER:HA	2	0.17
(2,1530)	1:30:B:SER:HB2	1:30:B:SER:HA	14	0.17
(2,1530)	1:30:B:SER:HB2	1:30:B:SER:HA	19	0.17
(2,1512)	1:27:B:LEU:HB3	1:40:B:SER:HA	6	0.17
(2,1502)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	24	0.17
(2,1481)	1:85:B:LYS:HB3	1:85:B:LYS:H	17	0.17
(2,1457)	1:85:B:LYS:H	1:84:B:ILE:HG12	14	0.17
(2,1457)	1:85:B:LYS:H	1:84:B:ILE:HG12	22	0.17
(2,1453)	1:26:B:LYS:HG2	1:26:B:LYS:H	22	0.17
(2,1433)	1:33:B:GLY:HA2	1:86:B:GLY:HA3	20	0.17
(2,1432)	1:33:B:GLY:HA3	1:86:B:GLY:HA3	8	0.17
(2,1431)	1:82:B:LEU:HG	1:84:B:ILE:HA	2	0.17
(2,1428)	1:87:B:MET:H	1:10:B:MET:HG3	13	0.17
(2,1423)	1:66:B:PHE:HA	1:70:B:SER:HB2	23	0.17
(2,1416)	1:49:B:TYR:HA	1:52:B:LYS:HE3	4	0.17
(2,1405)	1:10:B:MET:H	1:10:B:MET:HB3	21	0.17
(2,1388)	1:87:B:MET:HG2	1:87:B:MET:H	15	0.17
(2,1388)	1:87:B:MET:HG2	1:87:B:MET:H	24	0.17
(2,1380)	1:82:B:LEU:H	1:82:B:LEU:HB3	8	0.17
(2,1366)	1:4:B:LYS:H	1:4:B:LYS:HB3	18	0.17
(2,1359)	1:12:B:SER:H	1:13:B:ILE:HA	11	0.17
(2,1357)	1:11:B:ASN:H	1:11:B:ASN:HA	14	0.17
(2,1357)	1:11:B:ASN:H	1:11:B:ASN:HA	23	0.17
(2,1342)	1:61:B:GLU:H	1:61:B:GLU:HB3	22	0.17
(2,1342)	1:61:B:GLU:H	1:61:B:GLU:HB3	23	0.17
(2,1336)	1:37:B:LYS:H	1:36:B:LEU:HB3	12	0.17
(2,1334)	1:27:B:LEU:H	1:27:B:LEU:HG	9	0.17
(2,1329)	1:82:B:LEU:H	1:83:B:ASN:HA	2	0.17
(2,1329)	1:82:B:LEU:H	1:83:B:ASN:HA	10	0.17
(2,1289)	1:90:B:GLU:HG3	1:88:B:TYR:HE1	25	0.17
(2,1289)	1:90:B:GLU:HG3	1:88:B:TYR:HE2	25	0.17
(2,1277)	1:84:B:ILE:H	1:84:B:ILE:HD11	14	0.17
(2,1277)	1:84:B:ILE:H	1:84:B:ILE:HD12	14	0.17
(2,1277)	1:84:B:ILE:H	1:84:B:ILE:HD13	14	0.17
(2,1222)	1:38:B:ALA:H	1:29:B:LEU:HB2	20	0.17
(2,1206)	1:91:B:ILE:HG21	1:91:B:ILE:HD11	25	0.17
(2,1206)	1:91:B:ILE:HG21	1:91:B:ILE:HD12	25	0.17
(2,1206)	1:91:B:ILE:HG21	1:91:B:ILE:HD13	25	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1206)	1:91:B:ILE:HG22	1:91:B:ILE:HD11	25	0.17
(2,1206)	1:91:B:ILE:HG22	1:91:B:ILE:HD12	25	0.17
(2,1206)	1:91:B:ILE:HG22	1:91:B:ILE:HD13	25	0.17
(2,1206)	1:91:B:ILE:HG23	1:91:B:ILE:HD11	25	0.17
(2,1206)	1:91:B:ILE:HG23	1:91:B:ILE:HD12	25	0.17
(2,1206)	1:91:B:ILE:HG23	1:91:B:ILE:HD13	25	0.17
(2,1203)	1:22:B:LYS:H	1:21:B:ASN:HB2	20	0.17
(2,1179)	1:90:B:GLU:HB2	1:90:B:GLU:H	23	0.17
(2,1163)	1:27:B:LEU:H	1:27:B:LEU:HB2	2	0.17
(2,1163)	1:27:B:LEU:H	1:27:B:LEU:HB2	7	0.17
(2,1104)	1:64:B:TYR:H	1:63:B:VAL:H	4	0.17
(2,1104)	1:64:B:TYR:H	1:63:B:VAL:H	17	0.17
(2,1104)	1:64:B:TYR:H	1:63:B:VAL:H	24	0.17
(2,1098)	1:56:B:ILE:H	1:56:B:ILE:HG12	5	0.17
(2,1098)	1:56:B:ILE:H	1:56:B:ILE:HG12	7	0.17
(2,1098)	1:56:B:ILE:H	1:56:B:ILE:HG12	9	0.17
(2,1033)	1:16:B:VAL:H	1:14:B:ASN:HB3	13	0.17
(2,1024)	1:85:B:LYS:HG3	1:85:B:LYS:H	7	0.17
(2,998)	1:35:B:GLN:HG3	1:35:B:GLN:HE22	16	0.17
(2,972)	1:79:B:ILE:HD11	1:64:B:TYR:HD1	7	0.17
(2,972)	1:79:B:ILE:HD11	1:64:B:TYR:HD2	7	0.17
(2,972)	1:79:B:ILE:HD12	1:64:B:TYR:HD1	7	0.17
(2,972)	1:79:B:ILE:HD12	1:64:B:TYR:HD2	7	0.17
(2,972)	1:79:B:ILE:HD13	1:64:B:TYR:HD1	7	0.17
(2,972)	1:79:B:ILE:HD13	1:64:B:TYR:HD2	7	0.17
(2,958)	1:20:B:LEU:H	1:20:B:LEU:HB3	1	0.17
(2,958)	1:20:B:LEU:H	1:20:B:LEU:HB3	3	0.17
(2,930)	1:4:B:LYS:H	1:4:B:LYS:HG3	2	0.17
(2,930)	1:4:B:LYS:H	1:4:B:LYS:HG3	7	0.17
(2,930)	1:4:B:LYS:H	1:4:B:LYS:HG3	10	0.17
(2,930)	1:4:B:LYS:H	1:4:B:LYS:HG3	12	0.17
(2,930)	1:4:B:LYS:H	1:4:B:LYS:HG3	17	0.17
(2,930)	1:4:B:LYS:H	1:4:B:LYS:HG3	21	0.17
(2,919)	1:64:B:TYR:H	1:62:B:LYS:HA	16	0.17
(2,914)	1:55:B:GLY:H	1:54:B:TRP:HB2	3	0.17
(2,914)	1:55:B:GLY:H	1:54:B:TRP:HB2	4	0.17
(2,912)	1:80:B:ASN:H	1:77:B:ASN:HA	2	0.17
(2,868)	1:54:B:TRP:H	1:54:B:TRP:HB3	20	0.17
(2,857)	1:89:B:ILE:H	1:89:B:ILE:HD11	18	0.17
(2,857)	1:89:B:ILE:H	1:89:B:ILE:HD12	18	0.17
(2,857)	1:89:B:ILE:H	1:89:B:ILE:HD13	18	0.17
(2,852)	1:66:B:PHE:H	1:64:B:TYR:HB3	4	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,847)	1:58:B:VAL:H	1:61:B:GLU:HB3	8	0.17
(2,847)	1:58:B:VAL:H	1:61:B:GLU:HB3	17	0.17
(2,795)	1:19:B:LYS:HB3	1:19:B:LYS:H	11	0.17
(2,795)	1:19:B:LYS:HB3	1:19:B:LYS:H	13	0.17
(2,765)	1:89:B:ILE:H	1:87:B:MET:HG3	5	0.17
(2,719)	1:62:B:LYS:HD3	1:62:B:LYS:HG2	2	0.17
(2,653)	1:62:B:LYS:HB3	1:62:B:LYS:H	23	0.17
(2,644)	1:88:B:TYR:HD1	1:89:B:ILE:HA	6	0.17
(2,644)	1:88:B:TYR:HD2	1:89:B:ILE:HA	6	0.17
(2,588)	1:81:B:LYS:H	1:80:B:ASN:HB3	5	0.17
(2,550)	1:35:B:GLN:H	1:31:B:MET:HA	1	0.17
(2,549)	1:58:B:VAL:H	1:61:B:GLU:HB2	4	0.17
(2,549)	1:58:B:VAL:H	1:61:B:GLU:HB2	14	0.17
(2,549)	1:58:B:VAL:H	1:61:B:GLU:HB2	15	0.17
(2,549)	1:58:B:VAL:H	1:61:B:GLU:HB2	21	0.17
(2,549)	1:58:B:VAL:H	1:61:B:GLU:HB2	22	0.17
(2,533)	1:46:B:GLY:H	1:45:B:TYR:HD1	25	0.17
(2,533)	1:46:B:GLY:H	1:45:B:TYR:HD2	25	0.17
(2,532)	1:93:B:GLN:H	1:93:B:GLN:HB3	3	0.17
(2,485)	1:46:B:GLY:H	1:25:B:GLY:HA3	22	0.17
(2,469)	1:57:B:PHE:HZ	1:56:B:ILE:HA	1	0.17
(2,469)	1:57:B:PHE:HZ	1:56:B:ILE:HA	2	0.17
(2,469)	1:57:B:PHE:HZ	1:56:B:ILE:HA	6	0.17
(2,469)	1:57:B:PHE:HZ	1:56:B:ILE:HA	23	0.17
(2,448)	1:80:B:ASN:HD22	1:79:B:ILE:HB	21	0.17
(2,417)	1:41:B:SER:HB2	1:41:B:SER:HA	20	0.17
(2,395)	1:88:B:TYR:HB2	1:59:B:ASN:H	12	0.17
(2,395)	1:88:B:TYR:HB2	1:59:B:ASN:H	17	0.17
(2,383)	1:84:B:ILE:HG12	1:84:B:ILE:HA	25	0.17
(2,371)	1:89:B:ILE:HB	1:88:B:TYR:HA	4	0.17
(2,371)	1:89:B:ILE:HB	1:88:B:TYR:HA	7	0.17
(2,354)	1:56:B:ILE:HB	1:66:B:PHE:HZ	5	0.17
(2,354)	1:56:B:ILE:HB	1:66:B:PHE:HZ	16	0.17
(2,354)	1:56:B:ILE:HB	1:66:B:PHE:HZ	18	0.17
(2,354)	1:56:B:ILE:HB	1:66:B:PHE:HZ	25	0.17
(2,305)	1:63:B:VAL:H	1:58:B:VAL:H	4	0.17
(2,294)	1:22:B:LYS:HG2	1:22:B:LYS:HE3	18	0.17
(2,291)	1:67:B:ASN:H	1:67:B:ASN:HD22	5	0.17
(2,291)	1:67:B:ASN:H	1:67:B:ASN:HD22	24	0.17
(2,281)	1:38:B:ALA:H	1:37:B:LYS:HB3	5	0.17
(2,281)	1:38:B:ALA:H	1:37:B:LYS:HB3	8	0.17
(2,219)	1:93:B:GLN:H	1:92:B:LYS:HB2	17	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,219)	1:93:B:GLN:H	1:92:B:LYS:HB2	19	0.17
(2,203)	1:56:B:ILE:HA	1:54:B:TRP:HE3	19	0.17
(2,128)	1:29:B:LEU:H	1:29:B:LEU:HB3	16	0.17
(2,128)	1:29:B:LEU:H	1:29:B:LEU:HB3	18	0.17
(2,128)	1:29:B:LEU:H	1:29:B:LEU:HB3	25	0.17
(2,100)	1:82:B:LEU:H	1:82:B:LEU:HG	20	0.17
(2,98)	1:30:B:SER:HB2	1:30:B:SER:HA	2	0.17
(2,98)	1:30:B:SER:HB2	1:30:B:SER:HA	14	0.17
(2,98)	1:30:B:SER:HB2	1:30:B:SER:HA	19	0.17
(2,80)	1:27:B:LEU:HB3	1:40:B:SER:HA	6	0.17
(2,70)	1:81:B:LYS:HG3	1:81:B:LYS:HB3	24	0.17
(2,49)	1:85:B:LYS:HB3	1:85:B:LYS:H	17	0.17
(2,25)	1:85:B:LYS:H	1:84:B:ILE:HG12	14	0.17
(2,25)	1:85:B:LYS:H	1:84:B:ILE:HG12	22	0.17
(1,99)	1:78:B:ASP:H	1:74:B:ASN:O	10	0.17
(1,99)	1:78:B:ASP:H	1:74:B:ASN:O	22	0.17
(1,96)	1:72:B:VAL:O	1:76:B:SER:N	22	0.17
(1,86)	1:66:B:PHE:H	1:54:B:TRP:O	22	0.17
(1,82)	1:32:B:ASN:O	1:35:B:GLN:N	22	0.17
(1,52)	1:78:B:ASP:H	1:74:B:ASN:O	10	0.17
(1,52)	1:78:B:ASP:H	1:74:B:ASN:O	22	0.17
(1,49)	1:72:B:VAL:O	1:76:B:SER:N	22	0.17
(1,39)	1:66:B:PHE:H	1:54:B:TRP:O	22	0.17
(1,35)	1:32:B:ASN:O	1:35:B:GLN:N	22	0.17
(2,2863)	1:33:B:GLY:HA3	1:86:B:GLY:HA3	3	0.16
(2,2862)	1:82:B:LEU:HG	1:84:B:ILE:HA	6	0.16
(2,2806)	1:57:B:PHE:H	1:56:B:ILE:HG13	5	0.16
(2,2789)	1:11:B:ASN:H	1:11:B:ASN:HA	5	0.16
(2,2787)	1:48:B:SER:H	1:47:B:ILE:HG13	3	0.16
(2,2787)	1:48:B:SER:H	1:47:B:ILE:HG13	15	0.16
(2,2777)	1:12:B:SER:H	1:11:B:ASN:HB3	19	0.16
(2,2774)	1:61:B:GLU:H	1:61:B:GLU:HB3	10	0.16
(2,2774)	1:61:B:GLU:H	1:61:B:GLU:HB3	17	0.16
(2,2766)	1:27:B:LEU:H	1:27:B:LEU:HG	7	0.16
(2,2766)	1:27:B:LEU:H	1:27:B:LEU:HG	15	0.16
(2,2728)	1:83:B:ASN:H	1:83:B:ASN:HB3	20	0.16
(2,2723)	1:84:B:ILE:H	1:84:B:ILE:HG12	18	0.16
(2,2698)	1:20:B:LEU:H	1:20:B:LEU:HG	25	0.16
(2,2641)	1:85:B:LYS:H	1:84:B:ILE:HA	19	0.16
(2,2628)	1:84:B:ILE:H	1:82:B:LEU:HB2	7	0.16
(2,2615)	1:47:B:ILE:H	1:47:B:ILE:HG13	18	0.16
(2,2612)	1:34:B:ASN:H	1:34:B:ASN:HB2	20	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2580)	1:75:B:ILE:H	1:74:B:ASN:HB3	1	0.16
(2,2579)	1:57:B:PHE:HB2	1:60:B:GLY:H	1	0.16
(2,2579)	1:57:B:PHE:HB2	1:60:B:GLY:H	18	0.16
(2,2536)	1:64:B:TYR:H	1:63:B:VAL:H	3	0.16
(2,2536)	1:64:B:TYR:H	1:63:B:VAL:H	11	0.16
(2,2536)	1:64:B:TYR:H	1:63:B:VAL:H	25	0.16
(2,2430)	1:35:B:GLN:HG3	1:35:B:GLN:HE22	10	0.16
(2,2390)	1:20:B:LEU:H	1:20:B:LEU:HB3	6	0.16
(2,2390)	1:20:B:LEU:H	1:20:B:LEU:HB3	23	0.16
(2,2377)	1:48:B:SER:HB3	1:48:B:SER:H	3	0.16
(2,2377)	1:48:B:SER:HB3	1:48:B:SER:H	8	0.16
(2,2371)	1:27:B:LEU:HD11	1:28:B:SER:H	5	0.16
(2,2371)	1:27:B:LEU:HD12	1:28:B:SER:H	5	0.16
(2,2371)	1:27:B:LEU:HD13	1:28:B:SER:H	5	0.16
(2,2362)	1:4:B:LYS:H	1:4:B:LYS:HG3	5	0.16
(2,2362)	1:4:B:LYS:H	1:4:B:LYS:HG3	11	0.16
(2,2362)	1:4:B:LYS:H	1:4:B:LYS:HG3	18	0.16
(2,2362)	1:4:B:LYS:H	1:4:B:LYS:HG3	19	0.16
(2,2358)	1:79:B:ILE:H	1:78:B:ASP:H	23	0.16
(2,2351)	1:64:B:TYR:H	1:62:B:LYS:HA	7	0.16
(2,2351)	1:64:B:TYR:H	1:62:B:LYS:HA	17	0.16
(2,2351)	1:64:B:TYR:H	1:62:B:LYS:HA	20	0.16
(2,2344)	1:80:B:ASN:H	1:77:B:ASN:HA	21	0.16
(2,2284)	1:66:B:PHE:H	1:64:B:TYR:HB3	3	0.16
(2,2284)	1:66:B:PHE:H	1:64:B:TYR:HB3	6	0.16
(2,2229)	1:94:B:ILE:H	1:94:B:ILE:HG13	15	0.16
(2,2227)	1:19:B:LYS:HB3	1:19:B:LYS:H	5	0.16
(2,2227)	1:19:B:LYS:HB3	1:19:B:LYS:H	17	0.16
(2,2197)	1:89:B:ILE:H	1:87:B:MET:HG3	11	0.16
(2,2100)	1:91:B:ILE:HA	1:92:B:LYS:HD3	24	0.16
(2,2097)	1:42:B:ASN:H	1:41:B:SER:HB3	16	0.16
(2,2053)	1:86:B:GLY:H	1:87:B:MET:HB2	21	0.16
(2,2020)	1:81:B:LYS:H	1:80:B:ASN:HB3	1	0.16
(2,1989)	1:20:B:LEU:HB3	1:54:B:TRP:HZ2	3	0.16
(2,1989)	1:20:B:LEU:HB3	1:54:B:TRP:HZ2	11	0.16
(2,1989)	1:20:B:LEU:HB3	1:54:B:TRP:HZ2	14	0.16
(2,1982)	1:35:B:GLN:H	1:31:B:MET:HA	14	0.16
(2,1963)	1:93:B:GLN:HE22	1:92:B:LYS:HB3	1	0.16
(2,1896)	1:70:B:SER:HB3	1:69:B:LYS:HB3	11	0.16
(2,1880)	1:80:B:ASN:HD22	1:79:B:ILE:HB	4	0.16
(2,1854)	1:22:B:LYS:HA	1:22:B:LYS:HE3	18	0.16
(2,1849)	1:41:B:SER:HB2	1:41:B:SER:HA	1	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1842)	1:89:B:ILE:H	1:88:B:TYR:HD1	2	0.16
(2,1842)	1:89:B:ILE:H	1:88:B:TYR:HD2	2	0.16
(2,1827)	1:88:B:TYR:HB2	1:59:B:ASN:H	2	0.16
(2,1827)	1:88:B:TYR:HB2	1:59:B:ASN:H	4	0.16
(2,1827)	1:88:B:TYR:HB2	1:59:B:ASN:H	10	0.16
(2,1815)	1:84:B:ILE:HG12	1:84:B:ILE:HA	8	0.16
(2,1803)	1:89:B:ILE:HB	1:88:B:TYR:HA	21	0.16
(2,1803)	1:89:B:ILE:HB	1:88:B:TYR:HA	25	0.16
(2,1788)	1:41:B:SER:H	1:40:B:SER:HB3	8	0.16
(2,1786)	1:56:B:ILE:HB	1:66:B:PHE:HZ	8	0.16
(2,1737)	1:63:B:VAL:H	1:58:B:VAL:H	1	0.16
(2,1723)	1:67:B:ASN:H	1:67:B:ASN:HD22	4	0.16
(2,1635)	1:56:B:ILE:HA	1:54:B:TRP:HE3	5	0.16
(2,1560)	1:29:B:LEU:H	1:29:B:LEU:HB3	7	0.16
(2,1560)	1:29:B:LEU:H	1:29:B:LEU:HB3	8	0.16
(2,1560)	1:29:B:LEU:H	1:29:B:LEU:HB3	13	0.16
(2,1560)	1:29:B:LEU:H	1:29:B:LEU:HB3	14	0.16
(2,1560)	1:29:B:LEU:H	1:29:B:LEU:HB3	21	0.16
(2,1560)	1:29:B:LEU:H	1:29:B:LEU:HB3	23	0.16
(2,1530)	1:30:B:SER:HB2	1:30:B:SER:HA	12	0.16
(2,1530)	1:30:B:SER:HB2	1:30:B:SER:HA	24	0.16
(2,1522)	1:78:B:ASP:H	1:77:B:ASN:HB2	20	0.16
(2,1512)	1:27:B:LEU:HB3	1:40:B:SER:HA	7	0.16
(2,1481)	1:85:B:LYS:HB3	1:85:B:LYS:H	14	0.16
(2,1468)	1:25:B:GLY:HA2	1:45:B:TYR:HB3	14	0.16
(2,1468)	1:25:B:GLY:HA2	1:45:B:TYR:HB3	24	0.16
(2,1457)	1:85:B:LYS:H	1:84:B:ILE:HG12	5	0.16
(2,1432)	1:33:B:GLY:HA3	1:86:B:GLY:HA3	3	0.16
(2,1431)	1:82:B:LEU:HG	1:84:B:ILE:HA	6	0.16
(2,1374)	1:57:B:PHE:H	1:56:B:ILE:HG13	5	0.16
(2,1357)	1:11:B:ASN:H	1:11:B:ASN:HA	5	0.16
(2,1355)	1:48:B:SER:H	1:47:B:ILE:HG13	3	0.16
(2,1355)	1:48:B:SER:H	1:47:B:ILE:HG13	15	0.16
(2,1345)	1:12:B:SER:H	1:11:B:ASN:HB3	19	0.16
(2,1342)	1:61:B:GLU:H	1:61:B:GLU:HB3	10	0.16
(2,1342)	1:61:B:GLU:H	1:61:B:GLU:HB3	17	0.16
(2,1334)	1:27:B:LEU:H	1:27:B:LEU:HG	7	0.16
(2,1334)	1:27:B:LEU:H	1:27:B:LEU:HG	15	0.16
(2,1296)	1:83:B:ASN:H	1:83:B:ASN:HB3	20	0.16
(2,1291)	1:84:B:ILE:H	1:84:B:ILE:HG12	18	0.16
(2,1266)	1:20:B:LEU:H	1:20:B:LEU:HG	25	0.16
(2,1209)	1:85:B:LYS:H	1:84:B:ILE:HA	19	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1196)	1:84:B:ILE:H	1:82:B:LEU:HB2	7	0.16
(2,1183)	1:47:B:ILE:H	1:47:B:ILE:HG13	18	0.16
(2,1180)	1:34:B:ASN:H	1:34:B:ASN:HB2	20	0.16
(2,1148)	1:75:B:ILE:H	1:74:B:ASN:HB3	1	0.16
(2,1147)	1:57:B:PHE:HB2	1:60:B:GLY:H	1	0.16
(2,1147)	1:57:B:PHE:HB2	1:60:B:GLY:H	18	0.16
(2,1104)	1:64:B:TYR:H	1:63:B:VAL:H	3	0.16
(2,1104)	1:64:B:TYR:H	1:63:B:VAL:H	11	0.16
(2,1104)	1:64:B:TYR:H	1:63:B:VAL:H	25	0.16
(2,998)	1:35:B:GLN:HG3	1:35:B:GLN:HE22	10	0.16
(2,958)	1:20:B:LEU:H	1:20:B:LEU:HB3	6	0.16
(2,958)	1:20:B:LEU:H	1:20:B:LEU:HB3	23	0.16
(2,945)	1:48:B:SER:HB3	1:48:B:SER:H	3	0.16
(2,945)	1:48:B:SER:HB3	1:48:B:SER:H	8	0.16
(2,939)	1:27:B:LEU:HD11	1:28:B:SER:H	5	0.16
(2,939)	1:27:B:LEU:HD12	1:28:B:SER:H	5	0.16
(2,939)	1:27:B:LEU:HD13	1:28:B:SER:H	5	0.16
(2,930)	1:4:B:LYS:H	1:4:B:LYS:HG3	5	0.16
(2,930)	1:4:B:LYS:H	1:4:B:LYS:HG3	11	0.16
(2,930)	1:4:B:LYS:H	1:4:B:LYS:HG3	18	0.16
(2,930)	1:4:B:LYS:H	1:4:B:LYS:HG3	19	0.16
(2,926)	1:79:B:ILE:H	1:78:B:ASP:H	23	0.16
(2,919)	1:64:B:TYR:H	1:62:B:LYS:HA	7	0.16
(2,919)	1:64:B:TYR:H	1:62:B:LYS:HA	17	0.16
(2,919)	1:64:B:TYR:H	1:62:B:LYS:HA	20	0.16
(2,912)	1:80:B:ASN:H	1:77:B:ASN:HA	21	0.16
(2,852)	1:66:B:PHE:H	1:64:B:TYR:HB3	3	0.16
(2,852)	1:66:B:PHE:H	1:64:B:TYR:HB3	6	0.16
(2,797)	1:94:B:ILE:H	1:94:B:ILE:HG13	15	0.16
(2,795)	1:19:B:LYS:HB3	1:19:B:LYS:H	5	0.16
(2,795)	1:19:B:LYS:HB3	1:19:B:LYS:H	17	0.16
(2,765)	1:89:B:ILE:H	1:87:B:MET:HG3	11	0.16
(2,668)	1:91:B:ILE:HA	1:92:B:LYS:HD3	24	0.16
(2,665)	1:42:B:ASN:H	1:41:B:SER:HB3	16	0.16
(2,621)	1:86:B:GLY:H	1:87:B:MET:HB2	21	0.16
(2,588)	1:81:B:LYS:H	1:80:B:ASN:HB3	1	0.16
(2,557)	1:20:B:LEU:HB3	1:54:B:TRP:HZ2	3	0.16
(2,557)	1:20:B:LEU:HB3	1:54:B:TRP:HZ2	11	0.16
(2,557)	1:20:B:LEU:HB3	1:54:B:TRP:HZ2	14	0.16
(2,550)	1:35:B:GLN:H	1:31:B:MET:HA	14	0.16
(2,531)	1:93:B:GLN:HE22	1:92:B:LYS:HB3	1	0.16
(2,464)	1:70:B:SER:HB3	1:69:B:LYS:HB3	11	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,448)	1:80:B:ASN:HD22	1:79:B:ILE:HB	4	0.16
(2,422)	1:22:B:LYS:HA	1:22:B:LYS:HE3	18	0.16
(2,417)	1:41:B:SER:HB2	1:41:B:SER:HA	1	0.16
(2,410)	1:89:B:ILE:H	1:88:B:TYR:HD1	2	0.16
(2,410)	1:89:B:ILE:H	1:88:B:TYR:HD2	2	0.16
(2,395)	1:88:B:TYR:HB2	1:59:B:ASN:H	2	0.16
(2,395)	1:88:B:TYR:HB2	1:59:B:ASN:H	4	0.16
(2,395)	1:88:B:TYR:HB2	1:59:B:ASN:H	10	0.16
(2,383)	1:84:B:ILE:HG12	1:84:B:ILE:HA	8	0.16
(2,371)	1:89:B:ILE:HB	1:88:B:TYR:HA	21	0.16
(2,371)	1:89:B:ILE:HB	1:88:B:TYR:HA	25	0.16
(2,356)	1:41:B:SER:H	1:40:B:SER:HB3	8	0.16
(2,354)	1:56:B:ILE:HB	1:66:B:PHE:HZ	8	0.16
(2,305)	1:63:B:VAL:H	1:58:B:VAL:H	1	0.16
(2,291)	1:67:B:ASN:H	1:67:B:ASN:HD22	4	0.16
(2,203)	1:56:B:ILE:HA	1:54:B:TRP:HE3	5	0.16
(2,128)	1:29:B:LEU:H	1:29:B:LEU:HB3	7	0.16
(2,128)	1:29:B:LEU:H	1:29:B:LEU:HB3	8	0.16
(2,128)	1:29:B:LEU:H	1:29:B:LEU:HB3	13	0.16
(2,128)	1:29:B:LEU:H	1:29:B:LEU:HB3	14	0.16
(2,128)	1:29:B:LEU:H	1:29:B:LEU:HB3	21	0.16
(2,128)	1:29:B:LEU:H	1:29:B:LEU:HB3	23	0.16
(2,98)	1:30:B:SER:HB2	1:30:B:SER:HA	12	0.16
(2,98)	1:30:B:SER:HB2	1:30:B:SER:HA	24	0.16
(2,90)	1:78:B:ASP:H	1:77:B:ASN:HB2	20	0.16
(2,80)	1:27:B:LEU:HB3	1:40:B:SER:HA	7	0.16
(2,49)	1:85:B:LYS:HB3	1:85:B:LYS:H	14	0.16
(2,36)	1:25:B:GLY:HA2	1:45:B:TYR:HB3	14	0.16
(2,36)	1:25:B:GLY:HA2	1:45:B:TYR:HB3	24	0.16
(2,25)	1:85:B:LYS:H	1:84:B:ILE:HG12	5	0.16
(1,99)	1:78:B:ASP:H	1:74:B:ASN:O	11	0.16
(1,99)	1:78:B:ASP:H	1:74:B:ASN:O	12	0.16
(1,99)	1:78:B:ASP:H	1:74:B:ASN:O	18	0.16
(1,96)	1:72:B:VAL:O	1:76:B:SER:N	5	0.16
(1,96)	1:72:B:VAL:O	1:76:B:SER:N	14	0.16
(1,96)	1:72:B:VAL:O	1:76:B:SER:N	19	0.16
(1,86)	1:66:B:PHE:H	1:54:B:TRP:O	5	0.16
(1,78)	1:37:B:LYS:H	1:30:B:SER:O	24	0.16
(1,52)	1:78:B:ASP:H	1:74:B:ASN:O	11	0.16
(1,52)	1:78:B:ASP:H	1:74:B:ASN:O	12	0.16
(1,52)	1:78:B:ASP:H	1:74:B:ASN:O	18	0.16
(1,49)	1:72:B:VAL:O	1:76:B:SER:N	5	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,49)	1:72:B:VAL:O	1:76:B:SER:N	14	0.16
(1,49)	1:72:B:VAL:O	1:76:B:SER:N	19	0.16
(1,39)	1:66:B:PHE:H	1:54:B:TRP:O	5	0.16
(1,31)	1:37:B:LYS:H	1:30:B:SER:O	24	0.16
(2,2880)	1:43:B:ALA:H	1:41:B:SER:HA	23	0.15
(2,2863)	1:33:B:GLY:HA3	1:86:B:GLY:HA3	1	0.15
(2,2863)	1:33:B:GLY:HA3	1:86:B:GLY:HA3	11	0.15
(2,2863)	1:33:B:GLY:HA3	1:86:B:GLY:HA3	21	0.15
(2,2862)	1:82:B:LEU:HG	1:84:B:ILE:HA	1	0.15
(2,2862)	1:82:B:LEU:HG	1:84:B:ILE:HA	14	0.15
(2,2861)	1:85:B:LYS:HA	1:34:B:ASN:H	25	0.15
(2,2859)	1:87:B:MET:H	1:10:B:MET:HG3	7	0.15
(2,2853)	1:46:B:GLY:HA3	1:71:B:THR:HB	10	0.15
(2,2853)	1:46:B:GLY:HA3	1:71:B:THR:HB	12	0.15
(2,2853)	1:46:B:GLY:HA3	1:71:B:THR:HB	25	0.15
(2,2851)	1:46:B:GLY:HA3	1:71:B:THR:HA	9	0.15
(2,2820)	1:87:B:MET:HG2	1:87:B:MET:H	10	0.15
(2,2820)	1:87:B:MET:HG2	1:87:B:MET:H	12	0.15
(2,2820)	1:87:B:MET:HG2	1:87:B:MET:H	23	0.15
(2,2812)	1:82:B:LEU:H	1:82:B:LEU:HB3	6	0.15
(2,2806)	1:57:B:PHE:H	1:56:B:ILE:HG13	7	0.15
(2,2795)	1:19:B:LYS:H	1:15:B:SER:H	3	0.15
(2,2792)	1:9:B:GLN:H	1:8:B:GLU:HA	8	0.15
(2,2792)	1:9:B:GLN:H	1:8:B:GLU:HA	13	0.15
(2,2789)	1:11:B:ASN:H	1:11:B:ASN:HA	6	0.15
(2,2789)	1:11:B:ASN:H	1:11:B:ASN:HA	12	0.15
(2,2789)	1:11:B:ASN:H	1:11:B:ASN:HA	13	0.15
(2,2777)	1:12:B:SER:H	1:11:B:ASN:HB3	13	0.15
(2,2774)	1:61:B:GLU:H	1:61:B:GLU:HB3	8	0.15
(2,2774)	1:61:B:GLU:H	1:61:B:GLU:HB3	15	0.15
(2,2774)	1:61:B:GLU:H	1:61:B:GLU:HB3	20	0.15
(2,2768)	1:37:B:LYS:H	1:36:B:LEU:HB3	1	0.15
(2,2768)	1:37:B:LYS:H	1:36:B:LEU:HB3	14	0.15
(2,2767)	1:56:B:ILE:H	1:56:B:ILE:HD11	18	0.15
(2,2767)	1:56:B:ILE:H	1:56:B:ILE:HD12	18	0.15
(2,2767)	1:56:B:ILE:H	1:56:B:ILE:HD13	18	0.15
(2,2767)	1:56:B:ILE:H	1:56:B:ILE:HD11	23	0.15
(2,2767)	1:56:B:ILE:H	1:56:B:ILE:HD12	23	0.15
(2,2767)	1:56:B:ILE:H	1:56:B:ILE:HD13	23	0.15
(2,2766)	1:27:B:LEU:H	1:27:B:LEU:HG	4	0.15
(2,2761)	1:82:B:LEU:H	1:83:B:ASN:HA	4	0.15
(2,2761)	1:82:B:LEU:H	1:83:B:ASN:HA	6	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2761)	1:82:B:LEU:H	1:83:B:ASN:HA	8	0.15
(2,2761)	1:82:B:LEU:H	1:83:B:ASN:HA	16	0.15
(2,2761)	1:82:B:LEU:H	1:83:B:ASN:HA	18	0.15
(2,2761)	1:82:B:LEU:H	1:83:B:ASN:HA	19	0.15
(2,2732)	1:43:B:ALA:H	1:26:B:LYS:HE3	25	0.15
(2,2638)	1:91:B:ILE:HG21	1:91:B:ILE:HD11	13	0.15
(2,2638)	1:91:B:ILE:HG21	1:91:B:ILE:HD12	13	0.15
(2,2638)	1:91:B:ILE:HG21	1:91:B:ILE:HD13	13	0.15
(2,2638)	1:91:B:ILE:HG22	1:91:B:ILE:HD11	13	0.15
(2,2638)	1:91:B:ILE:HG22	1:91:B:ILE:HD12	13	0.15
(2,2638)	1:91:B:ILE:HG22	1:91:B:ILE:HD13	13	0.15
(2,2638)	1:91:B:ILE:HG23	1:91:B:ILE:HD11	13	0.15
(2,2638)	1:91:B:ILE:HG23	1:91:B:ILE:HD12	13	0.15
(2,2638)	1:91:B:ILE:HG23	1:91:B:ILE:HD13	13	0.15
(2,2608)	1:22:B:LYS:H	1:21:B:ASN:H	4	0.15
(2,2595)	1:27:B:LEU:H	1:27:B:LEU:HB2	1	0.15
(2,2542)	1:69:B:LYS:H	1:68:B:GLU:H	4	0.15
(2,2536)	1:64:B:TYR:H	1:63:B:VAL:H	23	0.15
(2,2530)	1:56:B:ILE:H	1:56:B:ILE:HG12	4	0.15
(2,2472)	1:23:B:GLY:H	1:22:B:LYS:HG3	24	0.15
(2,2466)	1:19:B:LYS:HG3	1:18:B:ASP:H	25	0.15
(2,2465)	1:16:B:VAL:H	1:14:B:ASN:HB3	17	0.15
(2,2465)	1:16:B:VAL:H	1:14:B:ASN:HB3	22	0.15
(2,2465)	1:16:B:VAL:H	1:14:B:ASN:HB3	23	0.15
(2,2430)	1:35:B:GLN:HG3	1:35:B:GLN:HE22	8	0.15
(2,2429)	1:47:B:ILE:H	1:46:B:GLY:H	20	0.15
(2,2429)	1:47:B:ILE:H	1:46:B:GLY:H	25	0.15
(2,2390)	1:20:B:LEU:H	1:20:B:LEU:HB3	4	0.15
(2,2358)	1:79:B:ILE:H	1:78:B:ASP:H	1	0.15
(2,2358)	1:79:B:ILE:H	1:78:B:ASP:H	22	0.15
(2,2351)	1:64:B:TYR:H	1:62:B:LYS:HA	23	0.15
(2,2346)	1:55:B:GLY:H	1:54:B:TRP:HB2	8	0.15
(2,2346)	1:55:B:GLY:H	1:54:B:TRP:HB2	24	0.15
(2,2344)	1:80:B:ASN:H	1:77:B:ASN:HA	7	0.15
(2,2344)	1:80:B:ASN:H	1:77:B:ASN:HA	16	0.15
(2,2344)	1:80:B:ASN:H	1:77:B:ASN:HA	25	0.15
(2,2338)	1:64:B:TYR:H	1:62:B:LYS:HB2	12	0.15
(2,2338)	1:64:B:TYR:H	1:62:B:LYS:HB2	13	0.15
(2,2338)	1:64:B:TYR:H	1:62:B:LYS:HB2	15	0.15
(2,2338)	1:64:B:TYR:H	1:62:B:LYS:HB2	18	0.15
(2,2300)	1:54:B:TRP:H	1:54:B:TRP:HB3	9	0.15
(2,2284)	1:66:B:PHE:H	1:64:B:TYR:HB3	11	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2284)	1:66:B:PHE:H	1:64:B:TYR:HB3	15	0.15
(2,2279)	1:58:B:VAL:H	1:61:B:GLU:HB3	18	0.15
(2,2239)	1:21:B:ASN:HB2	1:21:B:ASN:HD22	24	0.15
(2,2236)	1:31:B:MET:H	1:30:B:SER:HB3	4	0.15
(2,2227)	1:19:B:LYS:HB3	1:19:B:LYS:H	4	0.15
(2,2227)	1:19:B:LYS:HB3	1:19:B:LYS:H	19	0.15
(2,2177)	1:62:B:LYS:HA	1:58:B:VAL:H	18	0.15
(2,2176)	1:15:B:SER:H	1:15:B:SER:HA	13	0.15
(2,2165)	1:63:B:VAL:H	1:62:B:LYS:HG3	21	0.15
(2,2154)	1:89:B:ILE:HG12	1:88:B:TYR:H	20	0.15
(2,2151)	1:62:B:LYS:HD3	1:62:B:LYS:HG2	12	0.15
(2,2097)	1:42:B:ASN:H	1:41:B:SER:HB3	3	0.15
(2,2097)	1:42:B:ASN:H	1:41:B:SER:HB3	14	0.15
(2,2087)	1:67:B:ASN:HB3	1:66:B:PHE:HA	5	0.15
(2,2062)	1:88:B:TYR:H	1:86:B:GLY:HA3	20	0.15
(2,1996)	1:4:B:LYS:H	1:4:B:LYS:HB2	21	0.15
(2,1989)	1:20:B:LEU:HB3	1:54:B:TRP:HZ2	13	0.15
(2,1982)	1:35:B:GLN:H	1:31:B:MET:HA	8	0.15
(2,1982)	1:35:B:GLN:H	1:31:B:MET:HA	18	0.15
(2,1981)	1:58:B:VAL:H	1:61:B:GLU:HB2	10	0.15
(2,1917)	1:46:B:GLY:H	1:25:B:GLY:HA3	6	0.15
(2,1901)	1:57:B:PHE:HZ	1:56:B:ILE:HA	5	0.15
(2,1901)	1:57:B:PHE:HZ	1:56:B:ILE:HA	11	0.15
(2,1901)	1:57:B:PHE:HZ	1:56:B:ILE:HA	18	0.15
(2,1896)	1:70:B:SER:HB3	1:69:B:LYS:HB3	22	0.15
(2,1881)	1:90:B:GLU:HB3	1:90:B:GLU:HG3	4	0.15
(2,1876)	1:48:B:SER:H	1:46:B:GLY:HA2	4	0.15
(2,1876)	1:48:B:SER:H	1:46:B:GLY:HA2	19	0.15
(2,1873)	1:41:B:SER:H	1:26:B:LYS:HB3	2	0.15
(2,1854)	1:22:B:LYS:HA	1:22:B:LYS:HE3	25	0.15
(2,1849)	1:41:B:SER:HB2	1:41:B:SER:HA	16	0.15
(2,1849)	1:41:B:SER:HB2	1:41:B:SER:HA	22	0.15
(2,1832)	1:10:B:MET:HA	1:10:B:MET:HB2	7	0.15
(2,1832)	1:10:B:MET:HA	1:10:B:MET:HB2	9	0.15
(2,1803)	1:89:B:ILE:HB	1:88:B:TYR:HA	3	0.15
(2,1803)	1:89:B:ILE:HB	1:88:B:TYR:HA	15	0.15
(2,1788)	1:41:B:SER:H	1:40:B:SER:HB3	20	0.15
(2,1787)	1:50:B:GLU:H	1:50:B:GLU:HB2	13	0.15
(2,1786)	1:56:B:ILE:HB	1:66:B:PHE:HZ	7	0.15
(2,1786)	1:56:B:ILE:HB	1:66:B:PHE:HZ	23	0.15
(2,1774)	1:15:B:SER:HA	1:14:B:ASN:HB3	24	0.15
(2,1753)	1:29:B:LEU:HB2	1:38:B:ALA:HA	10	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1753)	1:29:B:LEU:HB2	1:38:B:ALA:HA	14	0.15
(2,1739)	1:56:B:ILE:H	1:55:B:GLY:HA3	18	0.15
(2,1723)	1:67:B:ASN:H	1:67:B:ASN:HD22	3	0.15
(2,1723)	1:67:B:ASN:H	1:67:B:ASN:HD22	17	0.15
(2,1723)	1:67:B:ASN:H	1:67:B:ASN:HD22	21	0.15
(2,1723)	1:67:B:ASN:H	1:67:B:ASN:HD22	22	0.15
(2,1723)	1:67:B:ASN:H	1:67:B:ASN:HD22	25	0.15
(2,1713)	1:38:B:ALA:H	1:37:B:LYS:HB3	3	0.15
(2,1713)	1:38:B:ALA:H	1:37:B:LYS:HB3	6	0.15
(2,1713)	1:38:B:ALA:H	1:37:B:LYS:HB3	16	0.15
(2,1713)	1:38:B:ALA:H	1:37:B:LYS:HB3	20	0.15
(2,1690)	1:37:B:LYS:HG2	1:37:B:LYS:HD3	14	0.15
(2,1651)	1:93:B:GLN:H	1:92:B:LYS:HB2	23	0.15
(2,1647)	1:46:B:GLY:HA2	1:47:B:ILE:HG12	20	0.15
(2,1644)	1:85:B:LYS:HG2	1:84:B:ILE:HA	25	0.15
(2,1606)	1:14:B:ASN:H	1:13:B:ILE:HB	6	0.15
(2,1582)	1:37:B:LYS:HG3	1:35:B:GLN:HB3	1	0.15
(2,1582)	1:37:B:LYS:HG3	1:35:B:GLN:HB3	9	0.15
(2,1582)	1:37:B:LYS:HG3	1:35:B:GLN:HB3	11	0.15
(2,1581)	1:62:B:LYS:HD2	1:62:B:LYS:HG2	4	0.15
(2,1560)	1:29:B:LEU:H	1:29:B:LEU:HB3	2	0.15
(2,1560)	1:29:B:LEU:H	1:29:B:LEU:HB3	3	0.15
(2,1560)	1:29:B:LEU:H	1:29:B:LEU:HB3	9	0.15
(2,1560)	1:29:B:LEU:H	1:29:B:LEU:HB3	10	0.15
(2,1560)	1:29:B:LEU:H	1:29:B:LEU:HB3	12	0.15
(2,1560)	1:29:B:LEU:H	1:29:B:LEU:HB3	17	0.15
(2,1560)	1:29:B:LEU:H	1:29:B:LEU:HB3	22	0.15
(2,1530)	1:30:B:SER:HB2	1:30:B:SER:HA	20	0.15
(2,1522)	1:78:B:ASP:H	1:77:B:ASN:HB2	12	0.15
(2,1512)	1:27:B:LEU:HB3	1:40:B:SER:HA	1	0.15
(2,1512)	1:27:B:LEU:HB3	1:40:B:SER:HA	19	0.15
(2,1512)	1:27:B:LEU:HB3	1:40:B:SER:HA	23	0.15
(2,1496)	1:26:B:LYS:H	1:26:B:LYS:HB2	13	0.15
(2,1481)	1:85:B:LYS:HB3	1:85:B:LYS:H	7	0.15
(2,1457)	1:85:B:LYS:H	1:84:B:ILE:HG12	11	0.15
(2,1457)	1:85:B:LYS:H	1:84:B:ILE:HG12	12	0.15
(2,1457)	1:85:B:LYS:H	1:84:B:ILE:HG12	15	0.15
(2,1449)	1:43:B:ALA:H	1:41:B:SER:HA	23	0.15
(2,1432)	1:33:B:GLY:HA3	1:86:B:GLY:HA3	1	0.15
(2,1432)	1:33:B:GLY:HA3	1:86:B:GLY:HA3	11	0.15
(2,1432)	1:33:B:GLY:HA3	1:86:B:GLY:HA3	21	0.15
(2,1431)	1:82:B:LEU:HG	1:84:B:ILE:HA	1	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1431)	1:82:B:LEU:HG	1:84:B:ILE:HA	14	0.15
(2,1430)	1:85:B:LYS:HA	1:34:B:ASN:H	25	0.15
(2,1428)	1:87:B:MET:H	1:10:B:MET:HG3	7	0.15
(2,1421)	1:46:B:GLY:HA3	1:71:B:THR:HB	10	0.15
(2,1421)	1:46:B:GLY:HA3	1:71:B:THR:HB	12	0.15
(2,1421)	1:46:B:GLY:HA3	1:71:B:THR:HB	25	0.15
(2,1419)	1:46:B:GLY:HA3	1:71:B:THR:HA	9	0.15
(2,1388)	1:87:B:MET:HG2	1:87:B:MET:H	10	0.15
(2,1388)	1:87:B:MET:HG2	1:87:B:MET:H	12	0.15
(2,1388)	1:87:B:MET:HG2	1:87:B:MET:H	23	0.15
(2,1380)	1:82:B:LEU:H	1:82:B:LEU:HB3	6	0.15
(2,1374)	1:57:B:PHE:H	1:56:B:ILE:HG13	7	0.15
(2,1363)	1:19:B:LYS:H	1:15:B:SER:H	3	0.15
(2,1360)	1:9:B:GLN:H	1:8:B:GLU:HA	8	0.15
(2,1360)	1:9:B:GLN:H	1:8:B:GLU:HA	13	0.15
(2,1357)	1:11:B:ASN:H	1:11:B:ASN:HA	6	0.15
(2,1357)	1:11:B:ASN:H	1:11:B:ASN:HA	12	0.15
(2,1357)	1:11:B:ASN:H	1:11:B:ASN:HA	13	0.15
(2,1345)	1:12:B:SER:H	1:11:B:ASN:HB3	13	0.15
(2,1342)	1:61:B:GLU:H	1:61:B:GLU:HB3	8	0.15
(2,1342)	1:61:B:GLU:H	1:61:B:GLU:HB3	15	0.15
(2,1342)	1:61:B:GLU:H	1:61:B:GLU:HB3	20	0.15
(2,1336)	1:37:B:LYS:H	1:36:B:LEU:HB3	1	0.15
(2,1336)	1:37:B:LYS:H	1:36:B:LEU:HB3	14	0.15
(2,1335)	1:56:B:ILE:H	1:56:B:ILE:HD11	18	0.15
(2,1335)	1:56:B:ILE:H	1:56:B:ILE:HD12	18	0.15
(2,1335)	1:56:B:ILE:H	1:56:B:ILE:HD13	18	0.15
(2,1335)	1:56:B:ILE:H	1:56:B:ILE:HD11	23	0.15
(2,1335)	1:56:B:ILE:H	1:56:B:ILE:HD12	23	0.15
(2,1335)	1:56:B:ILE:H	1:56:B:ILE:HD13	23	0.15
(2,1334)	1:27:B:LEU:H	1:27:B:LEU:HG	4	0.15
(2,1329)	1:82:B:LEU:H	1:83:B:ASN:HA	4	0.15
(2,1329)	1:82:B:LEU:H	1:83:B:ASN:HA	6	0.15
(2,1329)	1:82:B:LEU:H	1:83:B:ASN:HA	8	0.15
(2,1329)	1:82:B:LEU:H	1:83:B:ASN:HA	16	0.15
(2,1329)	1:82:B:LEU:H	1:83:B:ASN:HA	18	0.15
(2,1329)	1:82:B:LEU:H	1:83:B:ASN:HA	19	0.15
(2,1300)	1:43:B:ALA:H	1:26:B:LYS:HE3	25	0.15
(2,1206)	1:91:B:ILE:HG21	1:91:B:ILE:HD11	13	0.15
(2,1206)	1:91:B:ILE:HG21	1:91:B:ILE:HD12	13	0.15
(2,1206)	1:91:B:ILE:HG21	1:91:B:ILE:HD13	13	0.15
(2,1206)	1:91:B:ILE:HG22	1:91:B:ILE:HD11	13	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1206)	1:91:B:ILE:HG22	1:91:B:ILE:HD12	13	0.15
(2,1206)	1:91:B:ILE:HG22	1:91:B:ILE:HD13	13	0.15
(2,1206)	1:91:B:ILE:HG23	1:91:B:ILE:HD11	13	0.15
(2,1206)	1:91:B:ILE:HG23	1:91:B:ILE:HD12	13	0.15
(2,1206)	1:91:B:ILE:HG23	1:91:B:ILE:HD13	13	0.15
(2,1176)	1:22:B:LYS:H	1:21:B:ASN:H	4	0.15
(2,1163)	1:27:B:LEU:H	1:27:B:LEU:HB2	1	0.15
(2,1110)	1:69:B:LYS:H	1:68:B:GLU:H	4	0.15
(2,1104)	1:64:B:TYR:H	1:63:B:VAL:H	23	0.15
(2,1098)	1:56:B:ILE:H	1:56:B:ILE:HG12	4	0.15
(2,1040)	1:23:B:GLY:H	1:22:B:LYS:HG3	24	0.15
(2,1034)	1:19:B:LYS:HG3	1:18:B:ASP:H	25	0.15
(2,1033)	1:16:B:VAL:H	1:14:B:ASN:HB3	17	0.15
(2,1033)	1:16:B:VAL:H	1:14:B:ASN:HB3	22	0.15
(2,1033)	1:16:B:VAL:H	1:14:B:ASN:HB3	23	0.15
(2,998)	1:35:B:GLN:HG3	1:35:B:GLN:HE22	8	0.15
(2,997)	1:47:B:ILE:H	1:46:B:GLY:H	20	0.15
(2,997)	1:47:B:ILE:H	1:46:B:GLY:H	25	0.15
(2,958)	1:20:B:LEU:H	1:20:B:LEU:HB3	4	0.15
(2,926)	1:79:B:ILE:H	1:78:B:ASP:H	1	0.15
(2,926)	1:79:B:ILE:H	1:78:B:ASP:H	22	0.15
(2,919)	1:64:B:TYR:H	1:62:B:LYS:HA	23	0.15
(2,914)	1:55:B:GLY:H	1:54:B:TRP:HB2	8	0.15
(2,914)	1:55:B:GLY:H	1:54:B:TRP:HB2	24	0.15
(2,912)	1:80:B:ASN:H	1:77:B:ASN:HA	7	0.15
(2,912)	1:80:B:ASN:H	1:77:B:ASN:HA	16	0.15
(2,912)	1:80:B:ASN:H	1:77:B:ASN:HA	25	0.15
(2,906)	1:64:B:TYR:H	1:62:B:LYS:HB2	12	0.15
(2,906)	1:64:B:TYR:H	1:62:B:LYS:HB2	13	0.15
(2,906)	1:64:B:TYR:H	1:62:B:LYS:HB2	15	0.15
(2,906)	1:64:B:TYR:H	1:62:B:LYS:HB2	18	0.15
(2,868)	1:54:B:TRP:H	1:54:B:TRP:HB3	9	0.15
(2,852)	1:66:B:PHE:H	1:64:B:TYR:HB3	11	0.15
(2,852)	1:66:B:PHE:H	1:64:B:TYR:HB3	15	0.15
(2,847)	1:58:B:VAL:H	1:61:B:GLU:HB3	18	0.15
(2,807)	1:21:B:ASN:HB2	1:21:B:ASN:HD22	24	0.15
(2,804)	1:31:B:MET:H	1:30:B:SER:HB3	4	0.15
(2,795)	1:19:B:LYS:HB3	1:19:B:LYS:H	4	0.15
(2,795)	1:19:B:LYS:HB3	1:19:B:LYS:H	19	0.15
(2,745)	1:62:B:LYS:HA	1:58:B:VAL:H	18	0.15
(2,744)	1:15:B:SER:H	1:15:B:SER:HA	13	0.15
(2,733)	1:63:B:VAL:H	1:62:B:LYS:HG3	21	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,722)	1:89:B:ILE:HG12	1:88:B:TYR:H	20	0.15
(2,719)	1:62:B:LYS:HD3	1:62:B:LYS:HG2	12	0.15
(2,665)	1:42:B:ASN:H	1:41:B:SER:HB3	3	0.15
(2,665)	1:42:B:ASN:H	1:41:B:SER:HB3	14	0.15
(2,655)	1:67:B:ASN:HB3	1:66:B:PHE:HA	5	0.15
(2,630)	1:88:B:TYR:H	1:86:B:GLY:HA3	20	0.15
(2,564)	1:4:B:LYS:H	1:4:B:LYS:HB2	21	0.15
(2,557)	1:20:B:LEU:HB3	1:54:B:TRP:HZ2	13	0.15
(2,550)	1:35:B:GLN:H	1:31:B:MET:HA	8	0.15
(2,550)	1:35:B:GLN:H	1:31:B:MET:HA	18	0.15
(2,549)	1:58:B:VAL:H	1:61:B:GLU:HB2	10	0.15
(2,485)	1:46:B:GLY:H	1:25:B:GLY:HA3	6	0.15
(2,469)	1:57:B:PHE:HZ	1:56:B:ILE:HA	5	0.15
(2,469)	1:57:B:PHE:HZ	1:56:B:ILE:HA	11	0.15
(2,469)	1:57:B:PHE:HZ	1:56:B:ILE:HA	18	0.15
(2,464)	1:70:B:SER:HB3	1:69:B:LYS:HB3	22	0.15
(2,449)	1:90:B:GLU:HB3	1:90:B:GLU:HG3	4	0.15
(2,444)	1:48:B:SER:H	1:46:B:GLY:HA2	4	0.15
(2,444)	1:48:B:SER:H	1:46:B:GLY:HA2	19	0.15
(2,441)	1:41:B:SER:H	1:26:B:LYS:HB3	2	0.15
(2,422)	1:22:B:LYS:HA	1:22:B:LYS:HE3	25	0.15
(2,417)	1:41:B:SER:HB2	1:41:B:SER:HA	16	0.15
(2,417)	1:41:B:SER:HB2	1:41:B:SER:HA	22	0.15
(2,400)	1:10:B:MET:HA	1:10:B:MET:HB2	7	0.15
(2,400)	1:10:B:MET:HA	1:10:B:MET:HB2	9	0.15
(2,371)	1:89:B:ILE:HB	1:88:B:TYR:HA	3	0.15
(2,371)	1:89:B:ILE:HB	1:88:B:TYR:HA	15	0.15
(2,356)	1:41:B:SER:H	1:40:B:SER:HB3	20	0.15
(2,355)	1:50:B:GLU:H	1:50:B:GLU:HB2	13	0.15
(2,354)	1:56:B:ILE:HB	1:66:B:PHE:HZ	7	0.15
(2,354)	1:56:B:ILE:HB	1:66:B:PHE:HZ	23	0.15
(2,342)	1:15:B:SER:HA	1:14:B:ASN:HB3	24	0.15
(2,321)	1:29:B:LEU:HB2	1:38:B:ALA:HA	10	0.15
(2,321)	1:29:B:LEU:HB2	1:38:B:ALA:HA	14	0.15
(2,307)	1:56:B:ILE:H	1:55:B:GLY:HA3	18	0.15
(2,291)	1:67:B:ASN:H	1:67:B:ASN:HD22	3	0.15
(2,291)	1:67:B:ASN:H	1:67:B:ASN:HD22	17	0.15
(2,291)	1:67:B:ASN:H	1:67:B:ASN:HD22	21	0.15
(2,291)	1:67:B:ASN:H	1:67:B:ASN:HD22	22	0.15
(2,291)	1:67:B:ASN:H	1:67:B:ASN:HD22	25	0.15
(2,281)	1:38:B:ALA:H	1:37:B:LYS:HB3	3	0.15
(2,281)	1:38:B:ALA:H	1:37:B:LYS:HB3	6	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,281)	1:38:B:ALA:H	1:37:B:LYS:HB3	16	0.15
(2,281)	1:38:B:ALA:H	1:37:B:LYS:HB3	20	0.15
(2,258)	1:37:B:LYS:HG2	1:37:B:LYS:HD3	14	0.15
(2,219)	1:93:B:GLN:H	1:92:B:LYS:HB2	23	0.15
(2,215)	1:46:B:GLY:HA2	1:47:B:ILE:HG12	20	0.15
(2,212)	1:85:B:LYS:HG2	1:84:B:ILE:HA	25	0.15
(2,174)	1:14:B:ASN:H	1:13:B:ILE:HB	6	0.15
(2,150)	1:37:B:LYS:HG3	1:35:B:GLN:HB3	1	0.15
(2,150)	1:37:B:LYS:HG3	1:35:B:GLN:HB3	9	0.15
(2,150)	1:37:B:LYS:HG3	1:35:B:GLN:HB3	11	0.15
(2,149)	1:62:B:LYS:HD2	1:62:B:LYS:HG2	4	0.15
(2,128)	1:29:B:LEU:H	1:29:B:LEU:HB3	2	0.15
(2,128)	1:29:B:LEU:H	1:29:B:LEU:HB3	3	0.15
(2,128)	1:29:B:LEU:H	1:29:B:LEU:HB3	9	0.15
(2,128)	1:29:B:LEU:H	1:29:B:LEU:HB3	10	0.15
(2,128)	1:29:B:LEU:H	1:29:B:LEU:HB3	12	0.15
(2,128)	1:29:B:LEU:H	1:29:B:LEU:HB3	17	0.15
(2,128)	1:29:B:LEU:H	1:29:B:LEU:HB3	22	0.15
(2,98)	1:30:B:SER:HB2	1:30:B:SER:HA	20	0.15
(2,90)	1:78:B:ASP:H	1:77:B:ASN:HB2	12	0.15
(2,80)	1:27:B:LEU:HB3	1:40:B:SER:HA	1	0.15
(2,80)	1:27:B:LEU:HB3	1:40:B:SER:HA	19	0.15
(2,80)	1:27:B:LEU:HB3	1:40:B:SER:HA	23	0.15
(2,64)	1:26:B:LYS:H	1:26:B:LYS:HB2	13	0.15
(2,49)	1:85:B:LYS:HB3	1:85:B:LYS:H	7	0.15
(2,25)	1:85:B:LYS:H	1:84:B:ILE:HG12	11	0.15
(2,25)	1:85:B:LYS:H	1:84:B:ILE:HG12	12	0.15
(2,25)	1:85:B:LYS:H	1:84:B:ILE:HG12	15	0.15
(1,99)	1:78:B:ASP:H	1:74:B:ASN:O	4	0.15
(1,96)	1:72:B:VAL:O	1:76:B:SER:N	8	0.15
(1,92)	1:62:B:LYS:O	1:58:B:VAL:N	15	0.15
(1,91)	1:58:B:VAL:H	1:62:B:LYS:O	24	0.15
(1,86)	1:66:B:PHE:H	1:54:B:TRP:O	1	0.15
(1,86)	1:66:B:PHE:H	1:54:B:TRP:O	19	0.15
(1,75)	1:37:B:LYS:O	1:30:B:SER:N	20	0.15
(1,52)	1:78:B:ASP:H	1:74:B:ASN:O	4	0.15
(1,49)	1:72:B:VAL:O	1:76:B:SER:N	8	0.15
(1,45)	1:62:B:LYS:O	1:58:B:VAL:N	15	0.15
(1,44)	1:58:B:VAL:H	1:62:B:LYS:O	24	0.15
(1,39)	1:66:B:PHE:H	1:54:B:TRP:O	1	0.15
(1,39)	1:66:B:PHE:H	1:54:B:TRP:O	19	0.15
(1,28)	1:37:B:LYS:O	1:30:B:SER:N	20	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2888)	1:75:B:ILE:HG12	1:70:B:SER:HB2	22	0.14
(2,2884)	1:26:B:LYS:HG2	1:26:B:LYS:H	10	0.14
(2,2884)	1:26:B:LYS:HG2	1:26:B:LYS:H	18	0.14
(2,2884)	1:26:B:LYS:HG2	1:26:B:LYS:H	19	0.14
(2,2884)	1:26:B:LYS:HG2	1:26:B:LYS:H	21	0.14
(2,2869)	1:32:B:ASN:HB3	1:37:B:LYS:HD3	12	0.14
(2,2864)	1:33:B:GLY:HA2	1:86:B:GLY:HA3	24	0.14
(2,2863)	1:33:B:GLY:HA3	1:86:B:GLY:HA3	4	0.14
(2,2863)	1:33:B:GLY:HA3	1:86:B:GLY:HA3	10	0.14
(2,2863)	1:33:B:GLY:HA3	1:86:B:GLY:HA3	12	0.14
(2,2863)	1:33:B:GLY:HA3	1:86:B:GLY:HA3	14	0.14
(2,2863)	1:33:B:GLY:HA3	1:86:B:GLY:HA3	23	0.14
(2,2853)	1:46:B:GLY:HA3	1:71:B:THR:HB	16	0.14
(2,2851)	1:46:B:GLY:HA3	1:71:B:THR:HA	15	0.14
(2,2841)	1:45:B:TYR:HB2	1:24:B:LYS:HB2	22	0.14
(2,2837)	1:10:B:MET:H	1:10:B:MET:HB3	8	0.14
(2,2837)	1:10:B:MET:H	1:10:B:MET:HB3	13	0.14
(2,2806)	1:57:B:PHE:H	1:56:B:ILE:HG13	15	0.14
(2,2797)	1:25:B:GLY:H	1:24:B:LYS:H	18	0.14
(2,2795)	1:19:B:LYS:H	1:15:B:SER:H	1	0.14
(2,2795)	1:19:B:LYS:H	1:15:B:SER:H	11	0.14
(2,2795)	1:19:B:LYS:H	1:15:B:SER:H	14	0.14
(2,2794)	1:18:B:ASP:H	1:17:B:ASN:HD22	20	0.14
(2,2792)	1:9:B:GLN:H	1:8:B:GLU:HA	21	0.14
(2,2792)	1:9:B:GLN:H	1:8:B:GLU:HA	23	0.14
(2,2789)	1:11:B:ASN:H	1:11:B:ASN:HA	1	0.14
(2,2789)	1:11:B:ASN:H	1:11:B:ASN:HA	11	0.14
(2,2789)	1:11:B:ASN:H	1:11:B:ASN:HA	22	0.14
(2,2789)	1:11:B:ASN:H	1:11:B:ASN:HA	25	0.14
(2,2787)	1:48:B:SER:H	1:47:B:ILE:HG13	23	0.14
(2,2777)	1:12:B:SER:H	1:11:B:ASN:HB3	23	0.14
(2,2774)	1:61:B:GLU:H	1:61:B:GLU:HB3	2	0.14
(2,2774)	1:61:B:GLU:H	1:61:B:GLU:HB3	4	0.14
(2,2774)	1:61:B:GLU:H	1:61:B:GLU:HB3	6	0.14
(2,2774)	1:61:B:GLU:H	1:61:B:GLU:HB3	9	0.14
(2,2774)	1:61:B:GLU:H	1:61:B:GLU:HB3	16	0.14
(2,2768)	1:37:B:LYS:H	1:36:B:LEU:HB3	7	0.14
(2,2768)	1:37:B:LYS:H	1:36:B:LEU:HB3	15	0.14
(2,2768)	1:37:B:LYS:H	1:36:B:LEU:HB3	17	0.14
(2,2766)	1:27:B:LEU:H	1:27:B:LEU:HG	2	0.14
(2,2766)	1:27:B:LEU:H	1:27:B:LEU:HG	10	0.14
(2,2728)	1:83:B:ASN:H	1:83:B:ASN:HB3	17	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2723)	1:84:B:ILE:H	1:84:B:ILE:HG12	2	0.14
(2,2702)	1:25:B:GLY:HA3	1:45:B:TYR:HB2	20	0.14
(2,2689)	1:84:B:ILE:H	1:83:B:ASN:H	1	0.14
(2,2654)	1:38:B:ALA:H	1:29:B:LEU:HB2	4	0.14
(2,2654)	1:38:B:ALA:H	1:29:B:LEU:HB2	13	0.14
(2,2628)	1:84:B:ILE:H	1:82:B:LEU:HB2	4	0.14
(2,2628)	1:84:B:ILE:H	1:82:B:LEU:HB2	11	0.14
(2,2608)	1:22:B:LYS:H	1:21:B:ASN:H	17	0.14
(2,2597)	1:49:B:TYR:H	1:48:B:SER:HB2	1	0.14
(2,2597)	1:49:B:TYR:H	1:48:B:SER:HB2	19	0.14
(2,2580)	1:75:B:ILE:H	1:74:B:ASN:HB3	21	0.14
(2,2559)	1:83:B:ASN:HB2	1:83:B:ASN:H	1	0.14
(2,2554)	1:79:B:ILE:HG12	1:79:B:ILE:H	7	0.14
(2,2536)	1:64:B:TYR:H	1:63:B:VAL:H	8	0.14
(2,2536)	1:64:B:TYR:H	1:63:B:VAL:H	15	0.14
(2,2536)	1:64:B:TYR:H	1:63:B:VAL:H	18	0.14
(2,2536)	1:64:B:TYR:H	1:63:B:VAL:H	21	0.14
(2,2536)	1:64:B:TYR:H	1:63:B:VAL:H	22	0.14
(2,2530)	1:56:B:ILE:H	1:56:B:ILE:HG12	8	0.14
(2,2530)	1:56:B:ILE:H	1:56:B:ILE:HG12	17	0.14
(2,2530)	1:56:B:ILE:H	1:56:B:ILE:HG12	20	0.14
(2,2530)	1:56:B:ILE:H	1:56:B:ILE:HG12	24	0.14
(2,2514)	1:22:B:LYS:H	1:23:B:GLY:HA2	22	0.14
(2,2471)	1:84:B:ILE:H	1:84:B:ILE:HG13	10	0.14
(2,2466)	1:19:B:LYS:HG3	1:18:B:ASP:H	3	0.14
(2,2465)	1:16:B:VAL:H	1:14:B:ASN:HB3	7	0.14
(2,2465)	1:16:B:VAL:H	1:14:B:ASN:HB3	12	0.14
(2,2465)	1:16:B:VAL:H	1:14:B:ASN:HB3	18	0.14
(2,2459)	1:86:B:GLY:H	1:85:B:LYS:HG3	17	0.14
(2,2430)	1:35:B:GLN:HG3	1:35:B:GLN:HE22	4	0.14
(2,2430)	1:35:B:GLN:HG3	1:35:B:GLN:HE22	25	0.14
(2,2414)	1:32:B:ASN:H	1:31:B:MET:HB2	1	0.14
(2,2414)	1:32:B:ASN:H	1:31:B:MET:HB2	3	0.14
(2,2390)	1:20:B:LEU:H	1:20:B:LEU:HB3	18	0.14
(2,2358)	1:79:B:ILE:H	1:78:B:ASP:H	3	0.14
(2,2351)	1:64:B:TYR:H	1:62:B:LYS:HA	9	0.14
(2,2351)	1:64:B:TYR:H	1:62:B:LYS:HA	12	0.14
(2,2351)	1:64:B:TYR:H	1:62:B:LYS:HA	19	0.14
(2,2346)	1:55:B:GLY:H	1:54:B:TRP:HB2	20	0.14
(2,2344)	1:80:B:ASN:H	1:77:B:ASN:HA	1	0.14
(2,2344)	1:80:B:ASN:H	1:77:B:ASN:HA	9	0.14
(2,2344)	1:80:B:ASN:H	1:77:B:ASN:HA	10	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2306)	1:68:B:GLU:HG3	1:68:B:GLU:H	9	0.14
(2,2300)	1:54:B:TRP:H	1:54:B:TRP:HB3	18	0.14
(2,2300)	1:54:B:TRP:H	1:54:B:TRP:HB3	19	0.14
(2,2293)	1:47:B:ILE:H	1:47:B:ILE:HG12	25	0.14
(2,2283)	1:21:B:ASN:HB2	1:21:B:ASN:H	1	0.14
(2,2279)	1:58:B:VAL:H	1:61:B:GLU:HB3	1	0.14
(2,2279)	1:58:B:VAL:H	1:61:B:GLU:HB3	7	0.14
(2,2279)	1:58:B:VAL:H	1:61:B:GLU:HB3	10	0.14
(2,2278)	1:10:B:MET:H	1:10:B:MET:HB2	8	0.14
(2,2258)	1:73:B:GLY:H	1:74:B:ASN:HB3	10	0.14
(2,2236)	1:31:B:MET:H	1:30:B:SER:HB3	3	0.14
(2,2231)	1:12:B:SER:H	1:10:B:MET:H	3	0.14
(2,2229)	1:94:B:ILE:H	1:94:B:ILE:HG13	8	0.14
(2,2227)	1:19:B:LYS:HB3	1:19:B:LYS:H	21	0.14
(2,2206)	1:92:B:LYS:HG2	1:92:B:LYS:H	8	0.14
(2,2197)	1:89:B:ILE:H	1:87:B:MET:HG3	7	0.14
(2,2197)	1:89:B:ILE:H	1:87:B:MET:HG3	16	0.14
(2,2195)	1:42:B:ASN:H	1:42:B:ASN:HA	2	0.14
(2,2195)	1:42:B:ASN:H	1:42:B:ASN:HA	10	0.14
(2,2195)	1:42:B:ASN:H	1:42:B:ASN:HA	11	0.14
(2,2195)	1:42:B:ASN:H	1:42:B:ASN:HA	19	0.14
(2,2181)	1:16:B:VAL:HG11	1:20:B:LEU:HD11	9	0.14
(2,2181)	1:16:B:VAL:HG11	1:20:B:LEU:HD12	9	0.14
(2,2181)	1:16:B:VAL:HG11	1:20:B:LEU:HD13	9	0.14
(2,2181)	1:16:B:VAL:HG12	1:20:B:LEU:HD11	9	0.14
(2,2181)	1:16:B:VAL:HG12	1:20:B:LEU:HD12	9	0.14
(2,2181)	1:16:B:VAL:HG12	1:20:B:LEU:HD13	9	0.14
(2,2181)	1:16:B:VAL:HG13	1:20:B:LEU:HD11	9	0.14
(2,2181)	1:16:B:VAL:HG13	1:20:B:LEU:HD12	9	0.14
(2,2181)	1:16:B:VAL:HG13	1:20:B:LEU:HD13	9	0.14
(2,2157)	1:26:B:LYS:HE3	1:42:B:ASN:H	7	0.14
(2,2157)	1:26:B:LYS:HE3	1:42:B:ASN:H	21	0.14
(2,2151)	1:62:B:LYS:HD3	1:62:B:LYS:HG2	21	0.14
(2,2097)	1:42:B:ASN:H	1:41:B:SER:HB3	22	0.14
(2,2087)	1:67:B:ASN:HB3	1:66:B:PHE:HA	12	0.14
(2,2076)	1:88:B:TYR:HD1	1:89:B:ILE:HA	25	0.14
(2,2076)	1:88:B:TYR:HD2	1:89:B:ILE:HA	25	0.14
(2,2007)	1:27:B:LEU:H	1:39:B:THR:H	7	0.14
(2,1989)	1:20:B:LEU:HB3	1:54:B:TRP:HZ2	21	0.14
(2,1981)	1:58:B:VAL:H	1:61:B:GLU:HB2	6	0.14
(2,1963)	1:93:B:GLN:HE22	1:92:B:LYS:HB3	22	0.14
(2,1955)	1:12:B:SER:HB2	1:13:B:ILE:HG13	7	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1928)	1:59:B:ASN:HD21	1:60:B:GLY:HA2	21	0.14
(2,1901)	1:57:B:PHE:HZ	1:56:B:ILE:HA	17	0.14
(2,1901)	1:57:B:PHE:HZ	1:56:B:ILE:HA	19	0.14
(2,1896)	1:70:B:SER:HB3	1:69:B:LYS:HB3	8	0.14
(2,1896)	1:70:B:SER:HB3	1:69:B:LYS:HB3	24	0.14
(2,1883)	1:73:B:GLY:H	1:74:B:ASN:HD22	25	0.14
(2,1880)	1:80:B:ASN:HD22	1:79:B:ILE:HB	20	0.14
(2,1834)	1:44:B:GLY:H	1:43:B:ALA:HA	15	0.14
(2,1827)	1:88:B:TYR:HB2	1:59:B:ASN:H	24	0.14
(2,1816)	1:45:B:TYR:HB2	1:24:B:LYS:HB3	24	0.14
(2,1803)	1:89:B:ILE:HB	1:88:B:TYR:HA	1	0.14
(2,1803)	1:89:B:ILE:HB	1:88:B:TYR:HA	2	0.14
(2,1803)	1:89:B:ILE:HB	1:88:B:TYR:HA	9	0.14
(2,1803)	1:89:B:ILE:HB	1:88:B:TYR:HA	10	0.14
(2,1786)	1:56:B:ILE:HB	1:66:B:PHE:HZ	11	0.14
(2,1774)	1:15:B:SER:HA	1:14:B:ASN:HB3	3	0.14
(2,1753)	1:29:B:LEU:HB2	1:38:B:ALA:HA	19	0.14
(2,1737)	1:63:B:VAL:H	1:58:B:VAL:H	6	0.14
(2,1737)	1:63:B:VAL:H	1:58:B:VAL:H	9	0.14
(2,1733)	1:22:B:LYS:HB2	1:22:B:LYS:HE3	21	0.14
(2,1723)	1:67:B:ASN:H	1:67:B:ASN:HD22	1	0.14
(2,1723)	1:67:B:ASN:H	1:67:B:ASN:HD22	12	0.14
(2,1713)	1:38:B:ALA:H	1:37:B:LYS:HB3	4	0.14
(2,1713)	1:38:B:ALA:H	1:37:B:LYS:HB3	22	0.14
(2,1712)	1:27:B:LEU:H	1:26:B:LYS:HD3	4	0.14
(2,1651)	1:93:B:GLN:H	1:92:B:LYS:HB2	4	0.14
(2,1650)	1:16:B:VAL:HA	1:19:B:LYS:HG3	25	0.14
(2,1635)	1:56:B:ILE:HA	1:54:B:TRP:HE3	23	0.14
(2,1614)	1:41:B:SER:H	1:40:B:SER:HB2	15	0.14
(2,1582)	1:37:B:LYS:HG3	1:35:B:GLN:HB3	14	0.14
(2,1582)	1:37:B:LYS:HG3	1:35:B:GLN:HB3	16	0.14
(2,1581)	1:62:B:LYS:HD2	1:62:B:LYS:HG2	13	0.14
(2,1581)	1:62:B:LYS:HD2	1:62:B:LYS:HG2	14	0.14
(2,1581)	1:62:B:LYS:HD2	1:62:B:LYS:HG2	16	0.14
(2,1581)	1:62:B:LYS:HD2	1:62:B:LYS:HG2	22	0.14
(2,1560)	1:29:B:LEU:H	1:29:B:LEU:HB3	1	0.14
(2,1560)	1:29:B:LEU:H	1:29:B:LEU:HB3	11	0.14
(2,1560)	1:29:B:LEU:H	1:29:B:LEU:HB3	20	0.14
(2,1547)	1:41:B:SER:H	1:26:B:LYS:HG3	3	0.14
(2,1530)	1:30:B:SER:HB2	1:30:B:SER:HA	7	0.14
(2,1522)	1:78:B:ASP:H	1:77:B:ASN:HB2	17	0.14
(2,1512)	1:27:B:LEU:HB3	1:40:B:SER:HA	3	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1496)	1:26:B:LYS:H	1:26:B:LYS:HB2	15	0.14
(2,1496)	1:26:B:LYS:H	1:26:B:LYS:HB2	25	0.14
(2,1465)	1:87:B:MET:HG3	1:87:B:MET:H	11	0.14
(2,1460)	1:66:B:PHE:HZ	1:56:B:ILE:HA	14	0.14
(2,1457)	1:85:B:LYS:H	1:84:B:ILE:HG12	3	0.14
(2,1453)	1:26:B:LYS:HG2	1:26:B:LYS:H	10	0.14
(2,1453)	1:26:B:LYS:HG2	1:26:B:LYS:H	18	0.14
(2,1453)	1:26:B:LYS:HG2	1:26:B:LYS:H	19	0.14
(2,1453)	1:26:B:LYS:HG2	1:26:B:LYS:H	21	0.14
(2,1438)	1:32:B:ASN:HB3	1:37:B:LYS:HD3	12	0.14
(2,1433)	1:33:B:GLY:HA2	1:86:B:GLY:HA3	24	0.14
(2,1432)	1:33:B:GLY:HA3	1:86:B:GLY:HA3	4	0.14
(2,1432)	1:33:B:GLY:HA3	1:86:B:GLY:HA3	10	0.14
(2,1432)	1:33:B:GLY:HA3	1:86:B:GLY:HA3	12	0.14
(2,1432)	1:33:B:GLY:HA3	1:86:B:GLY:HA3	14	0.14
(2,1432)	1:33:B:GLY:HA3	1:86:B:GLY:HA3	23	0.14
(2,1427)	1:75:B:ILE:HG12	1:70:B:SER:HB2	22	0.14
(2,1421)	1:46:B:GLY:HA3	1:71:B:THR:HB	16	0.14
(2,1419)	1:46:B:GLY:HA3	1:71:B:THR:HA	15	0.14
(2,1409)	1:45:B:TYR:HB2	1:24:B:LYS:HB2	22	0.14
(2,1405)	1:10:B:MET:H	1:10:B:MET:HB3	8	0.14
(2,1405)	1:10:B:MET:H	1:10:B:MET:HB3	13	0.14
(2,1374)	1:57:B:PHE:H	1:56:B:ILE:HG13	15	0.14
(2,1365)	1:25:B:GLY:H	1:24:B:LYS:H	18	0.14
(2,1363)	1:19:B:LYS:H	1:15:B:SER:H	1	0.14
(2,1363)	1:19:B:LYS:H	1:15:B:SER:H	11	0.14
(2,1363)	1:19:B:LYS:H	1:15:B:SER:H	14	0.14
(2,1362)	1:18:B:ASP:H	1:17:B:ASN:HD22	20	0.14
(2,1360)	1:9:B:GLN:H	1:8:B:GLU:HA	21	0.14
(2,1360)	1:9:B:GLN:H	1:8:B:GLU:HA	23	0.14
(2,1357)	1:11:B:ASN:H	1:11:B:ASN:HA	1	0.14
(2,1357)	1:11:B:ASN:H	1:11:B:ASN:HA	11	0.14
(2,1357)	1:11:B:ASN:H	1:11:B:ASN:HA	22	0.14
(2,1357)	1:11:B:ASN:H	1:11:B:ASN:HA	25	0.14
(2,1355)	1:48:B:SER:H	1:47:B:ILE:HG13	23	0.14
(2,1345)	1:12:B:SER:H	1:11:B:ASN:HB3	23	0.14
(2,1342)	1:61:B:GLU:H	1:61:B:GLU:HB3	2	0.14
(2,1342)	1:61:B:GLU:H	1:61:B:GLU:HB3	4	0.14
(2,1342)	1:61:B:GLU:H	1:61:B:GLU:HB3	6	0.14
(2,1342)	1:61:B:GLU:H	1:61:B:GLU:HB3	9	0.14
(2,1342)	1:61:B:GLU:H	1:61:B:GLU:HB3	16	0.14
(2,1336)	1:37:B:LYS:H	1:36:B:LEU:HB3	7	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1336)	1:37:B:LYS:H	1:36:B:LEU:HB3	15	0.14
(2,1336)	1:37:B:LYS:H	1:36:B:LEU:HB3	17	0.14
(2,1334)	1:27:B:LEU:H	1:27:B:LEU:HG	2	0.14
(2,1334)	1:27:B:LEU:H	1:27:B:LEU:HG	10	0.14
(2,1296)	1:83:B:ASN:H	1:83:B:ASN:HB3	17	0.14
(2,1291)	1:84:B:ILE:H	1:84:B:ILE:HG12	2	0.14
(2,1270)	1:25:B:GLY:HA3	1:45:B:TYR:HB2	20	0.14
(2,1257)	1:84:B:ILE:H	1:83:B:ASN:H	1	0.14
(2,1222)	1:38:B:ALA:H	1:29:B:LEU:HB2	4	0.14
(2,1222)	1:38:B:ALA:H	1:29:B:LEU:HB2	13	0.14
(2,1196)	1:84:B:ILE:H	1:82:B:LEU:HB2	4	0.14
(2,1196)	1:84:B:ILE:H	1:82:B:LEU:HB2	11	0.14
(2,1176)	1:22:B:LYS:H	1:21:B:ASN:H	17	0.14
(2,1165)	1:49:B:TYR:H	1:48:B:SER:HB2	1	0.14
(2,1165)	1:49:B:TYR:H	1:48:B:SER:HB2	19	0.14
(2,1148)	1:75:B:ILE:H	1:74:B:ASN:HB3	21	0.14
(2,1127)	1:83:B:ASN:HB2	1:83:B:ASN:H	1	0.14
(2,1122)	1:79:B:ILE:HG12	1:79:B:ILE:H	7	0.14
(2,1104)	1:64:B:TYR:H	1:63:B:VAL:H	8	0.14
(2,1104)	1:64:B:TYR:H	1:63:B:VAL:H	15	0.14
(2,1104)	1:64:B:TYR:H	1:63:B:VAL:H	18	0.14
(2,1104)	1:64:B:TYR:H	1:63:B:VAL:H	21	0.14
(2,1104)	1:64:B:TYR:H	1:63:B:VAL:H	22	0.14
(2,1098)	1:56:B:ILE:H	1:56:B:ILE:HG12	8	0.14
(2,1098)	1:56:B:ILE:H	1:56:B:ILE:HG12	17	0.14
(2,1098)	1:56:B:ILE:H	1:56:B:ILE:HG12	20	0.14
(2,1098)	1:56:B:ILE:H	1:56:B:ILE:HG12	24	0.14
(2,1082)	1:22:B:LYS:H	1:23:B:GLY:HA2	22	0.14
(2,1039)	1:84:B:ILE:H	1:84:B:ILE:HG13	10	0.14
(2,1034)	1:19:B:LYS:HG3	1:18:B:ASP:H	3	0.14
(2,1033)	1:16:B:VAL:H	1:14:B:ASN:HB3	7	0.14
(2,1033)	1:16:B:VAL:H	1:14:B:ASN:HB3	12	0.14
(2,1033)	1:16:B:VAL:H	1:14:B:ASN:HB3	18	0.14
(2,1027)	1:86:B:GLY:H	1:85:B:LYS:HG3	17	0.14
(2,998)	1:35:B:GLN:HG3	1:35:B:GLN:HE22	4	0.14
(2,998)	1:35:B:GLN:HG3	1:35:B:GLN:HE22	25	0.14
(2,982)	1:32:B:ASN:H	1:31:B:MET:HB2	1	0.14
(2,982)	1:32:B:ASN:H	1:31:B:MET:HB2	3	0.14
(2,958)	1:20:B:LEU:H	1:20:B:LEU:HB3	18	0.14
(2,926)	1:79:B:ILE:H	1:78:B:ASP:H	3	0.14
(2,919)	1:64:B:TYR:H	1:62:B:LYS:HA	9	0.14
(2,919)	1:64:B:TYR:H	1:62:B:LYS:HA	12	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,919)	1:64:B:TYR:H	1:62:B:LYS:HA	19	0.14
(2,914)	1:55:B:GLY:H	1:54:B:TRP:HB2	20	0.14
(2,912)	1:80:B:ASN:H	1:77:B:ASN:HA	1	0.14
(2,912)	1:80:B:ASN:H	1:77:B:ASN:HA	9	0.14
(2,912)	1:80:B:ASN:H	1:77:B:ASN:HA	10	0.14
(2,874)	1:68:B:GLU:HG3	1:68:B:GLU:H	9	0.14
(2,868)	1:54:B:TRP:H	1:54:B:TRP:HB3	18	0.14
(2,868)	1:54:B:TRP:H	1:54:B:TRP:HB3	19	0.14
(2,861)	1:47:B:ILE:H	1:47:B:ILE:HG12	25	0.14
(2,851)	1:21:B:ASN:HB2	1:21:B:ASN:H	1	0.14
(2,847)	1:58:B:VAL:H	1:61:B:GLU:HB3	1	0.14
(2,847)	1:58:B:VAL:H	1:61:B:GLU:HB3	7	0.14
(2,847)	1:58:B:VAL:H	1:61:B:GLU:HB3	10	0.14
(2,846)	1:10:B:MET:H	1:10:B:MET:HB2	8	0.14
(2,826)	1:73:B:GLY:H	1:74:B:ASN:HB3	10	0.14
(2,804)	1:31:B:MET:H	1:30:B:SER:HB3	3	0.14
(2,799)	1:12:B:SER:H	1:10:B:MET:H	3	0.14
(2,797)	1:94:B:ILE:H	1:94:B:ILE:HG13	8	0.14
(2,795)	1:19:B:LYS:HB3	1:19:B:LYS:H	21	0.14
(2,774)	1:92:B:LYS:HG2	1:92:B:LYS:H	8	0.14
(2,765)	1:89:B:ILE:H	1:87:B:MET:HG3	7	0.14
(2,765)	1:89:B:ILE:H	1:87:B:MET:HG3	16	0.14
(2,763)	1:42:B:ASN:H	1:42:B:ASN:HA	2	0.14
(2,763)	1:42:B:ASN:H	1:42:B:ASN:HA	10	0.14
(2,763)	1:42:B:ASN:H	1:42:B:ASN:HA	11	0.14
(2,763)	1:42:B:ASN:H	1:42:B:ASN:HA	19	0.14
(2,749)	1:16:B:VAL:HG11	1:20:B:LEU:HD11	9	0.14
(2,749)	1:16:B:VAL:HG11	1:20:B:LEU:HD12	9	0.14
(2,749)	1:16:B:VAL:HG11	1:20:B:LEU:HD13	9	0.14
(2,749)	1:16:B:VAL:HG12	1:20:B:LEU:HD11	9	0.14
(2,749)	1:16:B:VAL:HG12	1:20:B:LEU:HD12	9	0.14
(2,749)	1:16:B:VAL:HG12	1:20:B:LEU:HD13	9	0.14
(2,749)	1:16:B:VAL:HG13	1:20:B:LEU:HD11	9	0.14
(2,749)	1:16:B:VAL:HG13	1:20:B:LEU:HD12	9	0.14
(2,749)	1:16:B:VAL:HG13	1:20:B:LEU:HD13	9	0.14
(2,725)	1:26:B:LYS:HE3	1:42:B:ASN:H	7	0.14
(2,725)	1:26:B:LYS:HE3	1:42:B:ASN:H	21	0.14
(2,719)	1:62:B:LYS:HD3	1:62:B:LYS:HG2	21	0.14
(2,665)	1:42:B:ASN:H	1:41:B:SER:HB3	22	0.14
(2,655)	1:67:B:ASN:HB3	1:66:B:PHE:HA	12	0.14
(2,644)	1:88:B:TYR:HD1	1:89:B:ILE:HA	25	0.14
(2,644)	1:88:B:TYR:HD2	1:89:B:ILE:HA	25	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,575)	1:27:B:LEU:H	1:39:B:THR:H	7	0.14
(2,557)	1:20:B:LEU:HB3	1:54:B:TRP:HZ2	21	0.14
(2,549)	1:58:B:VAL:H	1:61:B:GLU:HB2	6	0.14
(2,531)	1:93:B:GLN:HE22	1:92:B:LYS:HB3	22	0.14
(2,523)	1:12:B:SER:HB2	1:13:B:ILE:HG13	7	0.14
(2,496)	1:59:B:ASN:HD21	1:60:B:GLY:HA2	21	0.14
(2,469)	1:57:B:PHE:HZ	1:56:B:ILE:HA	17	0.14
(2,469)	1:57:B:PHE:HZ	1:56:B:ILE:HA	19	0.14
(2,464)	1:70:B:SER:HB3	1:69:B:LYS:HB3	8	0.14
(2,464)	1:70:B:SER:HB3	1:69:B:LYS:HB3	24	0.14
(2,451)	1:73:B:GLY:H	1:74:B:ASN:HD22	25	0.14
(2,448)	1:80:B:ASN:HD22	1:79:B:ILE:HB	20	0.14
(2,402)	1:44:B:GLY:H	1:43:B:ALA:HA	15	0.14
(2,395)	1:88:B:TYR:HB2	1:59:B:ASN:H	24	0.14
(2,384)	1:45:B:TYR:HB2	1:24:B:LYS:HB3	24	0.14
(2,371)	1:89:B:ILE:HB	1:88:B:TYR:HA	1	0.14
(2,371)	1:89:B:ILE:HB	1:88:B:TYR:HA	2	0.14
(2,371)	1:89:B:ILE:HB	1:88:B:TYR:HA	9	0.14
(2,371)	1:89:B:ILE:HB	1:88:B:TYR:HA	10	0.14
(2,354)	1:56:B:ILE:HB	1:66:B:PHE:HZ	11	0.14
(2,342)	1:15:B:SER:HA	1:14:B:ASN:HB3	3	0.14
(2,321)	1:29:B:LEU:HB2	1:38:B:ALA:HA	19	0.14
(2,305)	1:63:B:VAL:H	1:58:B:VAL:H	6	0.14
(2,305)	1:63:B:VAL:H	1:58:B:VAL:H	9	0.14
(2,301)	1:22:B:LYS:HB2	1:22:B:LYS:HE3	21	0.14
(2,291)	1:67:B:ASN:H	1:67:B:ASN:HD22	1	0.14
(2,291)	1:67:B:ASN:H	1:67:B:ASN:HD22	12	0.14
(2,281)	1:38:B:ALA:H	1:37:B:LYS:HB3	4	0.14
(2,281)	1:38:B:ALA:H	1:37:B:LYS:HB3	22	0.14
(2,280)	1:27:B:LEU:H	1:26:B:LYS:HD3	4	0.14
(2,219)	1:93:B:GLN:H	1:92:B:LYS:HB2	4	0.14
(2,218)	1:16:B:VAL:HA	1:19:B:LYS:HG3	25	0.14
(2,203)	1:56:B:ILE:HA	1:54:B:TRP:HE3	23	0.14
(2,182)	1:41:B:SER:H	1:40:B:SER:HB2	15	0.14
(2,150)	1:37:B:LYS:HG3	1:35:B:GLN:HB3	14	0.14
(2,150)	1:37:B:LYS:HG3	1:35:B:GLN:HB3	16	0.14
(2,149)	1:62:B:LYS:HD2	1:62:B:LYS:HG2	13	0.14
(2,149)	1:62:B:LYS:HD2	1:62:B:LYS:HG2	14	0.14
(2,149)	1:62:B:LYS:HD2	1:62:B:LYS:HG2	16	0.14
(2,149)	1:62:B:LYS:HD2	1:62:B:LYS:HG2	22	0.14
(2,128)	1:29:B:LEU:H	1:29:B:LEU:HB3	1	0.14
(2,128)	1:29:B:LEU:H	1:29:B:LEU:HB3	11	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,128)	1:29:B:LEU:H	1:29:B:LEU:HB3	20	0.14
(2,115)	1:41:B:SER:H	1:26:B:LYS:HG3	3	0.14
(2,98)	1:30:B:SER:HB2	1:30:B:SER:HA	7	0.14
(2,90)	1:78:B:ASP:H	1:77:B:ASN:HB2	17	0.14
(2,80)	1:27:B:LEU:HB3	1:40:B:SER:HA	3	0.14
(2,64)	1:26:B:LYS:H	1:26:B:LYS:HB2	15	0.14
(2,64)	1:26:B:LYS:H	1:26:B:LYS:HB2	25	0.14
(2,33)	1:87:B:MET:HG3	1:87:B:MET:H	11	0.14
(2,28)	1:66:B:PHE:HZ	1:56:B:ILE:HA	14	0.14
(2,25)	1:85:B:LYS:H	1:84:B:ILE:HG12	3	0.14
(1,96)	1:72:B:VAL:O	1:76:B:SER:N	3	0.14
(1,96)	1:72:B:VAL:O	1:76:B:SER:N	20	0.14
(1,86)	1:66:B:PHE:H	1:54:B:TRP:O	3	0.14
(1,86)	1:66:B:PHE:H	1:54:B:TRP:O	14	0.14
(1,86)	1:66:B:PHE:H	1:54:B:TRP:O	20	0.14
(1,79)	1:35:B:GLN:H	1:32:B:ASN:O	11	0.14
(1,75)	1:37:B:LYS:O	1:30:B:SER:N	5	0.14
(1,49)	1:72:B:VAL:O	1:76:B:SER:N	3	0.14
(1,49)	1:72:B:VAL:O	1:76:B:SER:N	20	0.14
(1,39)	1:66:B:PHE:H	1:54:B:TRP:O	3	0.14
(1,39)	1:66:B:PHE:H	1:54:B:TRP:O	14	0.14
(1,39)	1:66:B:PHE:H	1:54:B:TRP:O	20	0.14
(1,32)	1:35:B:GLN:H	1:32:B:ASN:O	11	0.14
(1,28)	1:37:B:LYS:O	1:30:B:SER:N	5	0.14
(2,2888)	1:75:B:ILE:HG12	1:70:B:SER:HB2	14	0.13
(2,2888)	1:75:B:ILE:HG12	1:70:B:SER:HB2	21	0.13
(2,2884)	1:26:B:LYS:HG2	1:26:B:LYS:H	6	0.13
(2,2868)	1:37:B:LYS:HG2	1:32:B:ASN:H	17	0.13
(2,2861)	1:85:B:LYS:HA	1:34:B:ASN:H	13	0.13
(2,2861)	1:85:B:LYS:HA	1:34:B:ASN:H	21	0.13
(2,2859)	1:87:B:MET:H	1:10:B:MET:HG3	19	0.13
(2,2855)	1:66:B:PHE:HA	1:70:B:SER:HB2	10	0.13
(2,2855)	1:66:B:PHE:HA	1:70:B:SER:HB2	21	0.13
(2,2853)	1:46:B:GLY:HA3	1:71:B:THR:HB	6	0.13
(2,2853)	1:46:B:GLY:HA3	1:71:B:THR:HB	17	0.13
(2,2851)	1:46:B:GLY:HA3	1:71:B:THR:HA	2	0.13
(2,2848)	1:49:B:TYR:HA	1:52:B:LYS:HE3	21	0.13
(2,2837)	1:10:B:MET:H	1:10:B:MET:HB3	25	0.13
(2,2820)	1:87:B:MET:HG2	1:87:B:MET:H	2	0.13
(2,2812)	1:82:B:LEU:H	1:82:B:LEU:HB3	3	0.13
(2,2800)	1:48:B:SER:H	1:47:B:ILE:HG12	21	0.13
(2,2795)	1:19:B:LYS:H	1:15:B:SER:H	4	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2795)	1:19:B:LYS:H	1:15:B:SER:H	6	0.13
(2,2795)	1:19:B:LYS:H	1:15:B:SER:H	23	0.13
(2,2795)	1:19:B:LYS:H	1:15:B:SER:H	24	0.13
(2,2791)	1:12:B:SER:H	1:13:B:ILE:HA	9	0.13
(2,2789)	1:11:B:ASN:H	1:11:B:ASN:HA	9	0.13
(2,2789)	1:11:B:ASN:H	1:11:B:ASN:HA	16	0.13
(2,2789)	1:11:B:ASN:H	1:11:B:ASN:HA	17	0.13
(2,2789)	1:11:B:ASN:H	1:11:B:ASN:HA	18	0.13
(2,2777)	1:12:B:SER:H	1:11:B:ASN:HB3	14	0.13
(2,2777)	1:12:B:SER:H	1:11:B:ASN:HB3	25	0.13
(2,2775)	1:49:B:TYR:H	1:48:B:SER:HB3	19	0.13
(2,2774)	1:61:B:GLU:H	1:61:B:GLU:HB3	1	0.13
(2,2774)	1:61:B:GLU:H	1:61:B:GLU:HB3	3	0.13
(2,2774)	1:61:B:GLU:H	1:61:B:GLU:HB3	11	0.13
(2,2774)	1:61:B:GLU:H	1:61:B:GLU:HB3	12	0.13
(2,2774)	1:61:B:GLU:H	1:61:B:GLU:HB3	19	0.13
(2,2768)	1:37:B:LYS:H	1:36:B:LEU:HB3	5	0.13
(2,2767)	1:56:B:ILE:H	1:56:B:ILE:HD11	12	0.13
(2,2767)	1:56:B:ILE:H	1:56:B:ILE:HD12	12	0.13
(2,2767)	1:56:B:ILE:H	1:56:B:ILE:HD13	12	0.13
(2,2766)	1:27:B:LEU:H	1:27:B:LEU:HG	17	0.13
(2,2764)	1:75:B:ILE:H	1:71:B:THR:H	12	0.13
(2,2761)	1:82:B:LEU:H	1:83:B:ASN:HA	3	0.13
(2,2761)	1:82:B:LEU:H	1:83:B:ASN:HA	14	0.13
(2,2732)	1:43:B:ALA:H	1:26:B:LYS:HE3	13	0.13
(2,2728)	1:83:B:ASN:H	1:83:B:ASN:HB3	11	0.13
(2,2723)	1:84:B:ILE:H	1:84:B:ILE:HG12	14	0.13
(2,2719)	1:74:B:ASN:HA	1:77:B:ASN:HD22	5	0.13
(2,2709)	1:84:B:ILE:H	1:84:B:ILE:HD11	12	0.13
(2,2709)	1:84:B:ILE:H	1:84:B:ILE:HD12	12	0.13
(2,2709)	1:84:B:ILE:H	1:84:B:ILE:HD13	12	0.13
(2,2709)	1:84:B:ILE:H	1:84:B:ILE:HD11	23	0.13
(2,2709)	1:84:B:ILE:H	1:84:B:ILE:HD12	23	0.13
(2,2709)	1:84:B:ILE:H	1:84:B:ILE:HD13	23	0.13
(2,2702)	1:25:B:GLY:HA3	1:45:B:TYR:HB2	10	0.13
(2,2702)	1:25:B:GLY:HA3	1:45:B:TYR:HB2	13	0.13
(2,2702)	1:25:B:GLY:HA3	1:45:B:TYR:HB2	15	0.13
(2,2698)	1:20:B:LEU:H	1:20:B:LEU:HG	20	0.13
(2,2664)	1:40:B:SER:H	1:39:B:THR:HB	11	0.13
(2,2641)	1:85:B:LYS:H	1:84:B:ILE:HA	1	0.13
(2,2641)	1:85:B:LYS:H	1:84:B:ILE:HA	5	0.13
(2,2635)	1:22:B:LYS:H	1:21:B:ASN:HB2	24	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2630)	1:91:B:ILE:H	1:90:B:GLU:HB2	5	0.13
(2,2608)	1:22:B:LYS:H	1:21:B:ASN:H	10	0.13
(2,2599)	1:24:B:LYS:HG2	1:23:B:GLY:H	4	0.13
(2,2597)	1:49:B:TYR:H	1:48:B:SER:HB2	7	0.13
(2,2597)	1:49:B:TYR:H	1:48:B:SER:HB2	9	0.13
(2,2597)	1:49:B:TYR:H	1:48:B:SER:HB2	12	0.13
(2,2595)	1:27:B:LEU:H	1:27:B:LEU:HB2	18	0.13
(2,2556)	1:24:B:LYS:H	1:22:B:LYS:H	10	0.13
(2,2554)	1:79:B:ILE:HG12	1:79:B:ILE:H	5	0.13
(2,2545)	1:35:B:GLN:H	1:34:B:ASN:H	2	0.13
(2,2536)	1:64:B:TYR:H	1:63:B:VAL:H	1	0.13
(2,2536)	1:64:B:TYR:H	1:63:B:VAL:H	2	0.13
(2,2536)	1:64:B:TYR:H	1:63:B:VAL:H	9	0.13
(2,2536)	1:64:B:TYR:H	1:63:B:VAL:H	16	0.13
(2,2530)	1:56:B:ILE:H	1:56:B:ILE:HG12	3	0.13
(2,2530)	1:56:B:ILE:H	1:56:B:ILE:HG12	11	0.13
(2,2530)	1:56:B:ILE:H	1:56:B:ILE:HG12	14	0.13
(2,2530)	1:56:B:ILE:H	1:56:B:ILE:HG12	22	0.13
(2,2471)	1:84:B:ILE:H	1:84:B:ILE:HG13	4	0.13
(2,2465)	1:16:B:VAL:H	1:14:B:ASN:HB3	2	0.13
(2,2465)	1:16:B:VAL:H	1:14:B:ASN:HB3	5	0.13
(2,2459)	1:86:B:GLY:H	1:85:B:LYS:HG3	14	0.13
(2,2430)	1:35:B:GLN:HG3	1:35:B:GLN:HE22	6	0.13
(2,2430)	1:35:B:GLN:HG3	1:35:B:GLN:HE22	12	0.13
(2,2430)	1:35:B:GLN:HG3	1:35:B:GLN:HE22	15	0.13
(2,2430)	1:35:B:GLN:HG3	1:35:B:GLN:HE22	18	0.13
(2,2430)	1:35:B:GLN:HG3	1:35:B:GLN:HE22	19	0.13
(2,2414)	1:32:B:ASN:H	1:31:B:MET:HB2	17	0.13
(2,2390)	1:20:B:LEU:H	1:20:B:LEU:HB3	10	0.13
(2,2390)	1:20:B:LEU:H	1:20:B:LEU:HB3	13	0.13
(2,2390)	1:20:B:LEU:H	1:20:B:LEU:HB3	15	0.13
(2,2390)	1:20:B:LEU:H	1:20:B:LEU:HB3	16	0.13
(2,2390)	1:20:B:LEU:H	1:20:B:LEU:HB3	19	0.13
(2,2390)	1:20:B:LEU:H	1:20:B:LEU:HB3	21	0.13
(2,2390)	1:20:B:LEU:H	1:20:B:LEU:HB3	22	0.13
(2,2358)	1:79:B:ILE:H	1:78:B:ASP:H	21	0.13
(2,2351)	1:64:B:TYR:H	1:62:B:LYS:HA	2	0.13
(2,2346)	1:55:B:GLY:H	1:54:B:TRP:HB2	1	0.13
(2,2346)	1:55:B:GLY:H	1:54:B:TRP:HB2	5	0.13
(2,2306)	1:68:B:GLU:HG3	1:68:B:GLU:H	7	0.13
(2,2300)	1:54:B:TRP:H	1:54:B:TRP:HB3	12	0.13
(2,2300)	1:54:B:TRP:H	1:54:B:TRP:HB3	13	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2300)	1:54:B:TRP:H	1:54:B:TRP:HB3	16	0.13
(2,2300)	1:54:B:TRP:H	1:54:B:TRP:HB3	17	0.13
(2,2284)	1:66:B:PHE:H	1:64:B:TYR:HB3	8	0.13
(2,2284)	1:66:B:PHE:H	1:64:B:TYR:HB3	14	0.13
(2,2283)	1:21:B:ASN:HB2	1:21:B:ASN:H	6	0.13
(2,2281)	1:24:B:LYS:H	1:23:B:GLY:H	3	0.13
(2,2257)	1:46:B:GLY:H	1:47:B:ILE:HD11	4	0.13
(2,2257)	1:46:B:GLY:H	1:47:B:ILE:HD12	4	0.13
(2,2257)	1:46:B:GLY:H	1:47:B:ILE:HD13	4	0.13
(2,2236)	1:31:B:MET:H	1:30:B:SER:HB3	6	0.13
(2,2236)	1:31:B:MET:H	1:30:B:SER:HB3	25	0.13
(2,2227)	1:19:B:LYS:HB3	1:19:B:LYS:H	8	0.13
(2,2197)	1:89:B:ILE:H	1:87:B:MET:HG3	21	0.13
(2,2195)	1:42:B:ASN:H	1:42:B:ASN:HA	1	0.13
(2,2195)	1:42:B:ASN:H	1:42:B:ASN:HA	7	0.13
(2,2195)	1:42:B:ASN:H	1:42:B:ASN:HA	17	0.13
(2,2195)	1:42:B:ASN:H	1:42:B:ASN:HA	21	0.13
(2,2165)	1:63:B:VAL:H	1:62:B:LYS:HG3	6	0.13
(2,2165)	1:63:B:VAL:H	1:62:B:LYS:HG3	20	0.13
(2,2157)	1:26:B:LYS:HE3	1:42:B:ASN:H	11	0.13
(2,2087)	1:67:B:ASN:HB3	1:66:B:PHE:HA	9	0.13
(2,2087)	1:67:B:ASN:HB3	1:66:B:PHE:HA	15	0.13
(2,2087)	1:67:B:ASN:HB3	1:66:B:PHE:HA	22	0.13
(2,2085)	1:62:B:LYS:HB3	1:62:B:LYS:H	15	0.13
(2,2053)	1:86:B:GLY:H	1:87:B:MET:HB2	4	0.13
(2,2020)	1:81:B:LYS:H	1:80:B:ASN:HB3	4	0.13
(2,2007)	1:27:B:LEU:H	1:39:B:THR:H	5	0.13
(2,2003)	1:11:B:ASN:H	1:13:B:ILE:HG13	14	0.13
(2,2003)	1:11:B:ASN:H	1:13:B:ILE:HG13	19	0.13
(2,1996)	1:4:B:LYS:H	1:4:B:LYS:HB2	5	0.13
(2,1996)	1:4:B:LYS:H	1:4:B:LYS:HB2	19	0.13
(2,1989)	1:20:B:LEU:HB3	1:54:B:TRP:HZ2	9	0.13
(2,1901)	1:57:B:PHE:HZ	1:56:B:ILE:HA	7	0.13
(2,1883)	1:73:B:GLY:H	1:74:B:ASN:HD22	5	0.13
(2,1881)	1:90:B:GLU:HB3	1:90:B:GLU:HG3	9	0.13
(2,1881)	1:90:B:GLU:HB3	1:90:B:GLU:HG3	13	0.13
(2,1879)	1:67:B:ASN:HB2	1:67:B:ASN:H	20	0.13
(2,1876)	1:48:B:SER:H	1:46:B:GLY:HA2	13	0.13
(2,1842)	1:89:B:ILE:H	1:88:B:TYR:HD1	1	0.13
(2,1842)	1:89:B:ILE:H	1:88:B:TYR:HD2	1	0.13
(2,1827)	1:88:B:TYR:HB2	1:59:B:ASN:H	6	0.13
(2,1827)	1:88:B:TYR:HB2	1:59:B:ASN:H	11	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1827)	1:88:B:TYR:HB2	1:59:B:ASN:H	16	0.13
(2,1756)	1:62:B:LYS:HA	1:57:B:PHE:HD1	18	0.13
(2,1756)	1:62:B:LYS:HA	1:57:B:PHE:HD2	18	0.13
(2,1753)	1:29:B:LEU:HB2	1:38:B:ALA:HA	3	0.13
(2,1753)	1:29:B:LEU:HB2	1:38:B:ALA:HA	8	0.13
(2,1753)	1:29:B:LEU:HB2	1:38:B:ALA:HA	25	0.13
(2,1739)	1:56:B:ILE:H	1:55:B:GLY:HA3	10	0.13
(2,1737)	1:63:B:VAL:H	1:58:B:VAL:H	7	0.13
(2,1737)	1:63:B:VAL:H	1:58:B:VAL:H	20	0.13
(2,1737)	1:63:B:VAL:H	1:58:B:VAL:H	25	0.13
(2,1733)	1:22:B:LYS:HB2	1:22:B:LYS:HE3	24	0.13
(2,1723)	1:67:B:ASN:H	1:67:B:ASN:HD22	20	0.13
(2,1721)	1:47:B:ILE:H	1:47:B:ILE:HD11	3	0.13
(2,1721)	1:47:B:ILE:H	1:47:B:ILE:HD12	3	0.13
(2,1721)	1:47:B:ILE:H	1:47:B:ILE:HD13	3	0.13
(2,1690)	1:37:B:LYS:HG2	1:37:B:LYS:HD3	5	0.13
(2,1690)	1:37:B:LYS:HG2	1:37:B:LYS:HD3	19	0.13
(2,1690)	1:37:B:LYS:HG2	1:37:B:LYS:HD3	20	0.13
(2,1674)	1:25:B:GLY:H	1:24:B:LYS:HG2	24	0.13
(2,1651)	1:93:B:GLN:H	1:92:B:LYS:HB2	3	0.13
(2,1651)	1:93:B:GLN:H	1:92:B:LYS:HB2	14	0.13
(2,1635)	1:56:B:ILE:HA	1:54:B:TRP:HE3	8	0.13
(2,1631)	1:24:B:LYS:HG2	1:24:B:LYS:HE3	16	0.13
(2,1582)	1:37:B:LYS:HG3	1:35:B:GLN:HB3	4	0.13
(2,1582)	1:37:B:LYS:HG3	1:35:B:GLN:HB3	6	0.13
(2,1582)	1:37:B:LYS:HG3	1:35:B:GLN:HB3	12	0.13
(2,1582)	1:37:B:LYS:HG3	1:35:B:GLN:HB3	18	0.13
(2,1582)	1:37:B:LYS:HG3	1:35:B:GLN:HB3	23	0.13
(2,1568)	1:29:B:LEU:H	1:17:B:ASN:HD21	16	0.13
(2,1547)	1:41:B:SER:H	1:26:B:LYS:HG3	1	0.13
(2,1547)	1:41:B:SER:H	1:26:B:LYS:HG3	19	0.13
(2,1547)	1:41:B:SER:H	1:26:B:LYS:HG3	24	0.13
(2,1530)	1:30:B:SER:HB2	1:30:B:SER:HA	5	0.13
(2,1530)	1:30:B:SER:HB2	1:30:B:SER:HA	21	0.13
(2,1522)	1:78:B:ASP:H	1:77:B:ASN:HB2	7	0.13
(2,1512)	1:27:B:LEU:HB3	1:40:B:SER:HA	12	0.13
(2,1496)	1:26:B:LYS:H	1:26:B:LYS:HB2	21	0.13
(2,1486)	1:37:B:LYS:HG2	1:35:B:GLN:HB3	22	0.13
(2,1457)	1:85:B:LYS:H	1:84:B:ILE:HG12	8	0.13
(2,1457)	1:85:B:LYS:H	1:84:B:ILE:HG12	9	0.13
(2,1453)	1:26:B:LYS:HG2	1:26:B:LYS:H	6	0.13
(2,1437)	1:37:B:LYS:HG2	1:32:B:ASN:H	17	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1430)	1:85:B:LYS:HA	1:34:B:ASN:H	13	0.13
(2,1430)	1:85:B:LYS:HA	1:34:B:ASN:H	21	0.13
(2,1428)	1:87:B:MET:H	1:10:B:MET:HG3	19	0.13
(2,1427)	1:75:B:ILE:HG12	1:70:B:SER:HB2	14	0.13
(2,1427)	1:75:B:ILE:HG12	1:70:B:SER:HB2	21	0.13
(2,1423)	1:66:B:PHE:HA	1:70:B:SER:HB2	10	0.13
(2,1423)	1:66:B:PHE:HA	1:70:B:SER:HB2	21	0.13
(2,1421)	1:46:B:GLY:HA3	1:71:B:THR:HB	6	0.13
(2,1421)	1:46:B:GLY:HA3	1:71:B:THR:HB	17	0.13
(2,1419)	1:46:B:GLY:HA3	1:71:B:THR:HA	2	0.13
(2,1416)	1:49:B:TYR:HA	1:52:B:LYS:HE3	21	0.13
(2,1405)	1:10:B:MET:H	1:10:B:MET:HB3	25	0.13
(2,1388)	1:87:B:MET:HG2	1:87:B:MET:H	2	0.13
(2,1380)	1:82:B:LEU:H	1:82:B:LEU:HB3	3	0.13
(2,1368)	1:48:B:SER:H	1:47:B:ILE:HG12	21	0.13
(2,1363)	1:19:B:LYS:H	1:15:B:SER:H	4	0.13
(2,1363)	1:19:B:LYS:H	1:15:B:SER:H	6	0.13
(2,1363)	1:19:B:LYS:H	1:15:B:SER:H	23	0.13
(2,1363)	1:19:B:LYS:H	1:15:B:SER:H	24	0.13
(2,1359)	1:12:B:SER:H	1:13:B:ILE:HA	9	0.13
(2,1357)	1:11:B:ASN:H	1:11:B:ASN:HA	9	0.13
(2,1357)	1:11:B:ASN:H	1:11:B:ASN:HA	16	0.13
(2,1357)	1:11:B:ASN:H	1:11:B:ASN:HA	17	0.13
(2,1357)	1:11:B:ASN:H	1:11:B:ASN:HA	18	0.13
(2,1345)	1:12:B:SER:H	1:11:B:ASN:HB3	14	0.13
(2,1345)	1:12:B:SER:H	1:11:B:ASN:HB3	25	0.13
(2,1343)	1:49:B:TYR:H	1:48:B:SER:HB3	19	0.13
(2,1342)	1:61:B:GLU:H	1:61:B:GLU:HB3	1	0.13
(2,1342)	1:61:B:GLU:H	1:61:B:GLU:HB3	3	0.13
(2,1342)	1:61:B:GLU:H	1:61:B:GLU:HB3	11	0.13
(2,1342)	1:61:B:GLU:H	1:61:B:GLU:HB3	12	0.13
(2,1342)	1:61:B:GLU:H	1:61:B:GLU:HB3	19	0.13
(2,1336)	1:37:B:LYS:H	1:36:B:LEU:HB3	5	0.13
(2,1335)	1:56:B:ILE:H	1:56:B:ILE:HD11	12	0.13
(2,1335)	1:56:B:ILE:H	1:56:B:ILE:HD12	12	0.13
(2,1335)	1:56:B:ILE:H	1:56:B:ILE:HD13	12	0.13
(2,1334)	1:27:B:LEU:H	1:27:B:LEU:HG	17	0.13
(2,1332)	1:75:B:ILE:H	1:71:B:THR:H	12	0.13
(2,1329)	1:82:B:LEU:H	1:83:B:ASN:HA	3	0.13
(2,1329)	1:82:B:LEU:H	1:83:B:ASN:HA	14	0.13
(2,1300)	1:43:B:ALA:H	1:26:B:LYS:HE3	13	0.13
(2,1296)	1:83:B:ASN:H	1:83:B:ASN:HB3	11	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1291)	1:84:B:ILE:H	1:84:B:ILE:HG12	14	0.13
(2,1287)	1:74:B:ASN:HA	1:77:B:ASN:HD22	5	0.13
(2,1277)	1:84:B:ILE:H	1:84:B:ILE:HD11	12	0.13
(2,1277)	1:84:B:ILE:H	1:84:B:ILE:HD12	12	0.13
(2,1277)	1:84:B:ILE:H	1:84:B:ILE:HD13	12	0.13
(2,1277)	1:84:B:ILE:H	1:84:B:ILE:HD11	23	0.13
(2,1277)	1:84:B:ILE:H	1:84:B:ILE:HD12	23	0.13
(2,1277)	1:84:B:ILE:H	1:84:B:ILE:HD13	23	0.13
(2,1270)	1:25:B:GLY:HA3	1:45:B:TYR:HB2	10	0.13
(2,1270)	1:25:B:GLY:HA3	1:45:B:TYR:HB2	13	0.13
(2,1270)	1:25:B:GLY:HA3	1:45:B:TYR:HB2	15	0.13
(2,1266)	1:20:B:LEU:H	1:20:B:LEU:HG	20	0.13
(2,1232)	1:40:B:SER:H	1:39:B:THR:HB	11	0.13
(2,1209)	1:85:B:LYS:H	1:84:B:ILE:HA	1	0.13
(2,1209)	1:85:B:LYS:H	1:84:B:ILE:HA	5	0.13
(2,1203)	1:22:B:LYS:H	1:21:B:ASN:HB2	24	0.13
(2,1198)	1:91:B:ILE:H	1:90:B:GLU:HB2	5	0.13
(2,1176)	1:22:B:LYS:H	1:21:B:ASN:H	10	0.13
(2,1167)	1:24:B:LYS:HG2	1:23:B:GLY:H	4	0.13
(2,1165)	1:49:B:TYR:H	1:48:B:SER:HB2	7	0.13
(2,1165)	1:49:B:TYR:H	1:48:B:SER:HB2	9	0.13
(2,1165)	1:49:B:TYR:H	1:48:B:SER:HB2	12	0.13
(2,1163)	1:27:B:LEU:H	1:27:B:LEU:HB2	18	0.13
(2,1124)	1:24:B:LYS:H	1:22:B:LYS:H	10	0.13
(2,1122)	1:79:B:ILE:HG12	1:79:B:ILE:H	5	0.13
(2,1113)	1:35:B:GLN:H	1:34:B:ASN:H	2	0.13
(2,1104)	1:64:B:TYR:H	1:63:B:VAL:H	1	0.13
(2,1104)	1:64:B:TYR:H	1:63:B:VAL:H	2	0.13
(2,1104)	1:64:B:TYR:H	1:63:B:VAL:H	9	0.13
(2,1104)	1:64:B:TYR:H	1:63:B:VAL:H	16	0.13
(2,1098)	1:56:B:ILE:H	1:56:B:ILE:HG12	3	0.13
(2,1098)	1:56:B:ILE:H	1:56:B:ILE:HG12	11	0.13
(2,1098)	1:56:B:ILE:H	1:56:B:ILE:HG12	14	0.13
(2,1098)	1:56:B:ILE:H	1:56:B:ILE:HG12	22	0.13
(2,1039)	1:84:B:ILE:H	1:84:B:ILE:HG13	4	0.13
(2,1033)	1:16:B:VAL:H	1:14:B:ASN:HB3	2	0.13
(2,1033)	1:16:B:VAL:H	1:14:B:ASN:HB3	5	0.13
(2,1027)	1:86:B:GLY:H	1:85:B:LYS:HG3	14	0.13
(2,998)	1:35:B:GLN:HG3	1:35:B:GLN:HE22	6	0.13
(2,998)	1:35:B:GLN:HG3	1:35:B:GLN:HE22	12	0.13
(2,998)	1:35:B:GLN:HG3	1:35:B:GLN:HE22	15	0.13
(2,998)	1:35:B:GLN:HG3	1:35:B:GLN:HE22	18	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,998)	1:35:B:GLN:HG3	1:35:B:GLN:HE22	19	0.13
(2,982)	1:32:B:ASN:H	1:31:B:MET:HB2	17	0.13
(2,958)	1:20:B:LEU:H	1:20:B:LEU:HB3	10	0.13
(2,958)	1:20:B:LEU:H	1:20:B:LEU:HB3	13	0.13
(2,958)	1:20:B:LEU:H	1:20:B:LEU:HB3	15	0.13
(2,958)	1:20:B:LEU:H	1:20:B:LEU:HB3	16	0.13
(2,958)	1:20:B:LEU:H	1:20:B:LEU:HB3	19	0.13
(2,958)	1:20:B:LEU:H	1:20:B:LEU:HB3	21	0.13
(2,958)	1:20:B:LEU:H	1:20:B:LEU:HB3	22	0.13
(2,926)	1:79:B:ILE:H	1:78:B:ASP:H	21	0.13
(2,919)	1:64:B:TYR:H	1:62:B:LYS:HA	2	0.13
(2,914)	1:55:B:GLY:H	1:54:B:TRP:HB2	1	0.13
(2,914)	1:55:B:GLY:H	1:54:B:TRP:HB2	5	0.13
(2,874)	1:68:B:GLU:HG3	1:68:B:GLU:H	7	0.13
(2,868)	1:54:B:TRP:H	1:54:B:TRP:HB3	12	0.13
(2,868)	1:54:B:TRP:H	1:54:B:TRP:HB3	13	0.13
(2,868)	1:54:B:TRP:H	1:54:B:TRP:HB3	16	0.13
(2,868)	1:54:B:TRP:H	1:54:B:TRP:HB3	17	0.13
(2,852)	1:66:B:PHE:H	1:64:B:TYR:HB3	8	0.13
(2,852)	1:66:B:PHE:H	1:64:B:TYR:HB3	14	0.13
(2,851)	1:21:B:ASN:HB2	1:21:B:ASN:H	6	0.13
(2,849)	1:24:B:LYS:H	1:23:B:GLY:H	3	0.13
(2,825)	1:46:B:GLY:H	1:47:B:ILE:HD11	4	0.13
(2,825)	1:46:B:GLY:H	1:47:B:ILE:HD12	4	0.13
(2,825)	1:46:B:GLY:H	1:47:B:ILE:HD13	4	0.13
(2,804)	1:31:B:MET:H	1:30:B:SER:HB3	6	0.13
(2,804)	1:31:B:MET:H	1:30:B:SER:HB3	25	0.13
(2,795)	1:19:B:LYS:HB3	1:19:B:LYS:H	8	0.13
(2,765)	1:89:B:ILE:H	1:87:B:MET:HG3	21	0.13
(2,763)	1:42:B:ASN:H	1:42:B:ASN:HA	1	0.13
(2,763)	1:42:B:ASN:H	1:42:B:ASN:HA	7	0.13
(2,763)	1:42:B:ASN:H	1:42:B:ASN:HA	17	0.13
(2,763)	1:42:B:ASN:H	1:42:B:ASN:HA	21	0.13
(2,733)	1:63:B:VAL:H	1:62:B:LYS:HG3	6	0.13
(2,733)	1:63:B:VAL:H	1:62:B:LYS:HG3	20	0.13
(2,725)	1:26:B:LYS:HE3	1:42:B:ASN:H	11	0.13
(2,655)	1:67:B:ASN:HB3	1:66:B:PHE:HA	9	0.13
(2,655)	1:67:B:ASN:HB3	1:66:B:PHE:HA	15	0.13
(2,655)	1:67:B:ASN:HB3	1:66:B:PHE:HA	22	0.13
(2,653)	1:62:B:LYS:HB3	1:62:B:LYS:H	15	0.13
(2,621)	1:86:B:GLY:H	1:87:B:MET:HB2	4	0.13
(2,588)	1:81:B:LYS:H	1:80:B:ASN:HB3	4	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,575)	1:27:B:LEU:H	1:39:B:THR:H	5	0.13
(2,571)	1:11:B:ASN:H	1:13:B:ILE:HG13	14	0.13
(2,571)	1:11:B:ASN:H	1:13:B:ILE:HG13	19	0.13
(2,564)	1:4:B:LYS:H	1:4:B:LYS:HB2	5	0.13
(2,564)	1:4:B:LYS:H	1:4:B:LYS:HB2	19	0.13
(2,557)	1:20:B:LEU:HB3	1:54:B:TRP:HZ2	9	0.13
(2,469)	1:57:B:PHE:HZ	1:56:B:ILE:HA	7	0.13
(2,451)	1:73:B:GLY:H	1:74:B:ASN:HD22	5	0.13
(2,449)	1:90:B:GLU:HB3	1:90:B:GLU:HG3	9	0.13
(2,449)	1:90:B:GLU:HB3	1:90:B:GLU:HG3	13	0.13
(2,447)	1:67:B:ASN:HB2	1:67:B:ASN:H	20	0.13
(2,444)	1:48:B:SER:H	1:46:B:GLY:HA2	13	0.13
(2,410)	1:89:B:ILE:H	1:88:B:TYR:HD1	1	0.13
(2,410)	1:89:B:ILE:H	1:88:B:TYR:HD2	1	0.13
(2,395)	1:88:B:TYR:HB2	1:59:B:ASN:H	6	0.13
(2,395)	1:88:B:TYR:HB2	1:59:B:ASN:H	11	0.13
(2,395)	1:88:B:TYR:HB2	1:59:B:ASN:H	16	0.13
(2,324)	1:62:B:LYS:HA	1:57:B:PHE:HD1	18	0.13
(2,324)	1:62:B:LYS:HA	1:57:B:PHE:HD2	18	0.13
(2,321)	1:29:B:LEU:HB2	1:38:B:ALA:HA	3	0.13
(2,321)	1:29:B:LEU:HB2	1:38:B:ALA:HA	8	0.13
(2,321)	1:29:B:LEU:HB2	1:38:B:ALA:HA	25	0.13
(2,307)	1:56:B:ILE:H	1:55:B:GLY:HA3	10	0.13
(2,305)	1:63:B:VAL:H	1:58:B:VAL:H	7	0.13
(2,305)	1:63:B:VAL:H	1:58:B:VAL:H	20	0.13
(2,305)	1:63:B:VAL:H	1:58:B:VAL:H	25	0.13
(2,301)	1:22:B:LYS:HB2	1:22:B:LYS:HE3	24	0.13
(2,291)	1:67:B:ASN:H	1:67:B:ASN:HD22	20	0.13
(2,289)	1:47:B:ILE:H	1:47:B:ILE:HD11	3	0.13
(2,289)	1:47:B:ILE:H	1:47:B:ILE:HD12	3	0.13
(2,289)	1:47:B:ILE:H	1:47:B:ILE:HD13	3	0.13
(2,258)	1:37:B:LYS:HG2	1:37:B:LYS:HD3	5	0.13
(2,258)	1:37:B:LYS:HG2	1:37:B:LYS:HD3	19	0.13
(2,258)	1:37:B:LYS:HG2	1:37:B:LYS:HD3	20	0.13
(2,242)	1:25:B:GLY:H	1:24:B:LYS:HG2	24	0.13
(2,219)	1:93:B:GLN:H	1:92:B:LYS:HB2	3	0.13
(2,219)	1:93:B:GLN:H	1:92:B:LYS:HB2	14	0.13
(2,203)	1:56:B:ILE:HA	1:54:B:TRP:HE3	8	0.13
(2,199)	1:24:B:LYS:HG2	1:24:B:LYS:HE3	16	0.13
(2,150)	1:37:B:LYS:HG3	1:35:B:GLN:HB3	4	0.13
(2,150)	1:37:B:LYS:HG3	1:35:B:GLN:HB3	6	0.13
(2,150)	1:37:B:LYS:HG3	1:35:B:GLN:HB3	12	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,150)	1:37:B:LYS:HG3	1:35:B:GLN:HB3	18	0.13
(2,150)	1:37:B:LYS:HG3	1:35:B:GLN:HB3	23	0.13
(2,136)	1:29:B:LEU:H	1:17:B:ASN:HD21	16	0.13
(2,115)	1:41:B:SER:H	1:26:B:LYS:HG3	1	0.13
(2,115)	1:41:B:SER:H	1:26:B:LYS:HG3	19	0.13
(2,115)	1:41:B:SER:H	1:26:B:LYS:HG3	24	0.13
(2,98)	1:30:B:SER:HB2	1:30:B:SER:HA	5	0.13
(2,98)	1:30:B:SER:HB2	1:30:B:SER:HA	21	0.13
(2,90)	1:78:B:ASP:H	1:77:B:ASN:HB2	7	0.13
(2,80)	1:27:B:LEU:HB3	1:40:B:SER:HA	12	0.13
(2,64)	1:26:B:LYS:H	1:26:B:LYS:HB2	21	0.13
(2,54)	1:37:B:LYS:HG2	1:35:B:GLN:HB3	22	0.13
(2,25)	1:85:B:LYS:H	1:84:B:ILE:HG12	8	0.13
(2,25)	1:85:B:LYS:H	1:84:B:ILE:HG12	9	0.13
(1,99)	1:78:B:ASP:H	1:74:B:ASN:O	15	0.13
(1,96)	1:72:B:VAL:O	1:76:B:SER:N	6	0.13
(1,96)	1:72:B:VAL:O	1:76:B:SER:N	11	0.13
(1,86)	1:66:B:PHE:H	1:54:B:TRP:O	6	0.13
(1,86)	1:66:B:PHE:H	1:54:B:TRP:O	13	0.13
(1,79)	1:35:B:GLN:H	1:32:B:ASN:O	1	0.13
(1,79)	1:35:B:GLN:H	1:32:B:ASN:O	12	0.13
(1,75)	1:37:B:LYS:O	1:30:B:SER:N	3	0.13
(1,75)	1:37:B:LYS:O	1:30:B:SER:N	13	0.13
(1,68)	1:26:B:LYS:H	1:41:B:SER:O	11	0.13
(1,60)	1:15:B:SER:H	1:11:B:ASN:O	3	0.13
(1,60)	1:15:B:SER:H	1:11:B:ASN:O	5	0.13
(1,52)	1:78:B:ASP:H	1:74:B:ASN:O	15	0.13
(1,49)	1:72:B:VAL:O	1:76:B:SER:N	6	0.13
(1,49)	1:72:B:VAL:O	1:76:B:SER:N	11	0.13
(1,39)	1:66:B:PHE:H	1:54:B:TRP:O	6	0.13
(1,39)	1:66:B:PHE:H	1:54:B:TRP:O	13	0.13
(1,32)	1:35:B:GLN:H	1:32:B:ASN:O	1	0.13
(1,32)	1:35:B:GLN:H	1:32:B:ASN:O	12	0.13
(1,28)	1:37:B:LYS:O	1:30:B:SER:N	3	0.13
(1,28)	1:37:B:LYS:O	1:30:B:SER:N	13	0.13
(1,21)	1:26:B:LYS:H	1:41:B:SER:O	11	0.13
(1,13)	1:15:B:SER:H	1:11:B:ASN:O	3	0.13
(1,13)	1:15:B:SER:H	1:11:B:ASN:O	5	0.13
(2,2888)	1:75:B:ILE:HG12	1:70:B:SER:HB2	11	0.12
(2,2884)	1:26:B:LYS:HG2	1:26:B:LYS:H	23	0.12
(2,2863)	1:33:B:GLY:HA3	1:86:B:GLY:HA3	20	0.12
(2,2862)	1:82:B:LEU:HG	1:84:B:ILE:HA	15	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2860)	1:87:B:MET:H	1:10:B:MET:HG2	5	0.12
(2,2859)	1:87:B:MET:H	1:10:B:MET:HG3	25	0.12
(2,2851)	1:46:B:GLY:HA3	1:71:B:THR:HA	19	0.12
(2,2826)	1:9:B:GLN:H	1:9:B:GLN:HB3	13	0.12
(2,2826)	1:9:B:GLN:H	1:9:B:GLN:HB3	21	0.12
(2,2812)	1:82:B:LEU:H	1:82:B:LEU:HB3	2	0.12
(2,2800)	1:48:B:SER:H	1:47:B:ILE:HG12	13	0.12
(2,2795)	1:19:B:LYS:H	1:15:B:SER:H	22	0.12
(2,2792)	1:9:B:GLN:H	1:8:B:GLU:HA	4	0.12
(2,2792)	1:9:B:GLN:H	1:8:B:GLU:HA	12	0.12
(2,2789)	1:11:B:ASN:H	1:11:B:ASN:HA	4	0.12
(2,2789)	1:11:B:ASN:H	1:11:B:ASN:HA	7	0.12
(2,2789)	1:11:B:ASN:H	1:11:B:ASN:HA	15	0.12
(2,2789)	1:11:B:ASN:H	1:11:B:ASN:HA	24	0.12
(2,2775)	1:49:B:TYR:H	1:48:B:SER:HB3	7	0.12
(2,2775)	1:49:B:TYR:H	1:48:B:SER:HB3	9	0.12
(2,2775)	1:49:B:TYR:H	1:48:B:SER:HB3	12	0.12
(2,2774)	1:61:B:GLU:H	1:61:B:GLU:HB3	24	0.12
(2,2768)	1:37:B:LYS:H	1:36:B:LEU:HB3	9	0.12
(2,2766)	1:27:B:LEU:H	1:27:B:LEU:HG	8	0.12
(2,2761)	1:82:B:LEU:H	1:83:B:ASN:HA	11	0.12
(2,2728)	1:83:B:ASN:H	1:83:B:ASN:HB3	9	0.12
(2,2728)	1:83:B:ASN:H	1:83:B:ASN:HB3	12	0.12
(2,2717)	1:31:B:MET:H	1:31:B:MET:HB3	4	0.12
(2,2697)	1:36:B:LEU:H	1:35:B:GLN:HB2	19	0.12
(2,2689)	1:84:B:ILE:H	1:83:B:ASN:H	22	0.12
(2,2664)	1:40:B:SER:H	1:39:B:THR:HB	14	0.12
(2,2664)	1:40:B:SER:H	1:39:B:THR:HB	20	0.12
(2,2638)	1:91:B:ILE:HG21	1:91:B:ILE:HD11	7	0.12
(2,2638)	1:91:B:ILE:HG21	1:91:B:ILE:HD12	7	0.12
(2,2638)	1:91:B:ILE:HG21	1:91:B:ILE:HD13	7	0.12
(2,2638)	1:91:B:ILE:HG22	1:91:B:ILE:HD11	7	0.12
(2,2638)	1:91:B:ILE:HG22	1:91:B:ILE:HD12	7	0.12
(2,2638)	1:91:B:ILE:HG22	1:91:B:ILE:HD13	7	0.12
(2,2638)	1:91:B:ILE:HG23	1:91:B:ILE:HD11	7	0.12
(2,2638)	1:91:B:ILE:HG23	1:91:B:ILE:HD12	7	0.12
(2,2638)	1:91:B:ILE:HG23	1:91:B:ILE:HD13	7	0.12
(2,2635)	1:22:B:LYS:H	1:21:B:ASN:HB2	9	0.12
(2,2635)	1:22:B:LYS:H	1:21:B:ASN:HB2	18	0.12
(2,2630)	1:91:B:ILE:H	1:90:B:GLU:HB2	11	0.12
(2,2628)	1:84:B:ILE:H	1:82:B:LEU:HB2	8	0.12
(2,2628)	1:84:B:ILE:H	1:82:B:LEU:HB2	9	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2628)	1:84:B:ILE:H	1:82:B:LEU:HB2	12	0.12
(2,2628)	1:84:B:ILE:H	1:82:B:LEU:HB2	24	0.12
(2,2615)	1:47:B:ILE:H	1:47:B:ILE:HG13	5	0.12
(2,2615)	1:47:B:ILE:H	1:47:B:ILE:HG13	15	0.12
(2,2615)	1:47:B:ILE:H	1:47:B:ILE:HG13	23	0.12
(2,2608)	1:22:B:LYS:H	1:21:B:ASN:H	1	0.12
(2,2599)	1:24:B:LYS:HG2	1:23:B:GLY:H	15	0.12
(2,2595)	1:27:B:LEU:H	1:27:B:LEU:HB2	23	0.12
(2,2580)	1:75:B:ILE:H	1:74:B:ASN:HB3	18	0.12
(2,2569)	1:35:B:GLN:H	1:33:B:GLY:HA3	14	0.12
(2,2542)	1:69:B:LYS:H	1:68:B:GLU:H	8	0.12
(2,2536)	1:64:B:TYR:H	1:63:B:VAL:H	20	0.12
(2,2530)	1:56:B:ILE:H	1:56:B:ILE:HG12	10	0.12
(2,2479)	1:89:B:ILE:H	1:88:B:TYR:H	20	0.12
(2,2471)	1:84:B:ILE:H	1:84:B:ILE:HG13	16	0.12
(2,2466)	1:19:B:LYS:HG3	1:18:B:ASP:H	16	0.12
(2,2466)	1:19:B:LYS:HG3	1:18:B:ASP:H	24	0.12
(2,2465)	1:16:B:VAL:H	1:14:B:ASN:HB3	11	0.12
(2,2465)	1:16:B:VAL:H	1:14:B:ASN:HB3	19	0.12
(2,2430)	1:35:B:GLN:HG3	1:35:B:GLN:HE22	3	0.12
(2,2430)	1:35:B:GLN:HG3	1:35:B:GLN:HE22	13	0.12
(2,2414)	1:32:B:ASN:H	1:31:B:MET:HB2	2	0.12
(2,2414)	1:32:B:ASN:H	1:31:B:MET:HB2	22	0.12
(2,2377)	1:48:B:SER:HB3	1:48:B:SER:H	21	0.12
(2,2366)	1:58:B:VAL:HG21	1:59:B:ASN:H	2	0.12
(2,2366)	1:58:B:VAL:HG22	1:59:B:ASN:H	2	0.12
(2,2366)	1:58:B:VAL:HG23	1:59:B:ASN:H	2	0.12
(2,2362)	1:4:B:LYS:H	1:4:B:LYS:HG3	8	0.12
(2,2362)	1:4:B:LYS:H	1:4:B:LYS:HG3	25	0.12
(2,2358)	1:79:B:ILE:H	1:78:B:ASP:H	7	0.12
(2,2358)	1:79:B:ILE:H	1:78:B:ASP:H	14	0.12
(2,2358)	1:79:B:ILE:H	1:78:B:ASP:H	16	0.12
(2,2344)	1:80:B:ASN:H	1:77:B:ASN:HA	13	0.12
(2,2344)	1:80:B:ASN:H	1:77:B:ASN:HA	14	0.12
(2,2344)	1:80:B:ASN:H	1:77:B:ASN:HA	19	0.12
(2,2341)	1:18:B:ASP:H	1:15:B:SER:HA	18	0.12
(2,2341)	1:18:B:ASP:H	1:15:B:SER:HA	22	0.12
(2,2307)	1:37:B:LYS:H	1:36:B:LEU:HD11	18	0.12
(2,2307)	1:37:B:LYS:H	1:36:B:LEU:HD12	18	0.12
(2,2307)	1:37:B:LYS:H	1:36:B:LEU:HD13	18	0.12
(2,2300)	1:54:B:TRP:H	1:54:B:TRP:HB3	8	0.12
(2,2300)	1:54:B:TRP:H	1:54:B:TRP:HB3	11	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2300)	1:54:B:TRP:H	1:54:B:TRP:HB3	25	0.12
(2,2294)	1:61:B:GLU:H	1:61:B:GLU:HG3	25	0.12
(2,2289)	1:89:B:ILE:H	1:89:B:ILE:HD11	21	0.12
(2,2289)	1:89:B:ILE:H	1:89:B:ILE:HD12	21	0.12
(2,2289)	1:89:B:ILE:H	1:89:B:ILE:HD13	21	0.12
(2,2283)	1:21:B:ASN:HB2	1:21:B:ASN:H	16	0.12
(2,2264)	1:35:B:GLN:HG2	1:35:B:GLN:HE22	7	0.12
(2,2261)	1:50:B:GLU:H	1:49:B:TYR:HB3	18	0.12
(2,2249)	1:32:B:ASN:H	1:31:B:MET:HB3	5	0.12
(2,2229)	1:94:B:ILE:H	1:94:B:ILE:HG13	3	0.12
(2,2229)	1:94:B:ILE:H	1:94:B:ILE:HG13	10	0.12
(2,2227)	1:19:B:LYS:HB3	1:19:B:LYS:H	24	0.12
(2,2195)	1:42:B:ASN:H	1:42:B:ASN:HA	12	0.12
(2,2195)	1:42:B:ASN:H	1:42:B:ASN:HA	24	0.12
(2,2176)	1:15:B:SER:H	1:15:B:SER:HA	5	0.12
(2,2165)	1:63:B:VAL:H	1:62:B:LYS:HG3	10	0.12
(2,2165)	1:63:B:VAL:H	1:62:B:LYS:HG3	17	0.12
(2,2138)	1:19:B:LYS:HD3	1:19:B:LYS:HA	19	0.12
(2,2053)	1:86:B:GLY:H	1:87:B:MET:HB2	24	0.12
(2,2020)	1:81:B:LYS:H	1:80:B:ASN:HB3	7	0.12
(2,2008)	1:62:B:LYS:HD3	1:57:B:PHE:HZ	23	0.12
(2,2007)	1:27:B:LEU:H	1:39:B:THR:H	9	0.12
(2,2007)	1:27:B:LEU:H	1:39:B:THR:H	18	0.12
(2,2007)	1:27:B:LEU:H	1:39:B:THR:H	20	0.12
(2,2007)	1:27:B:LEU:H	1:39:B:THR:H	22	0.12
(2,1997)	1:17:B:ASN:HD22	1:17:B:ASN:HB2	3	0.12
(2,1996)	1:4:B:LYS:H	1:4:B:LYS:HB2	12	0.12
(2,1996)	1:4:B:LYS:H	1:4:B:LYS:HB2	15	0.12
(2,1989)	1:20:B:LEU:HB3	1:54:B:TRP:HZ2	12	0.12
(2,1971)	1:79:B:ILE:H	1:82:B:LEU:HG	21	0.12
(2,1952)	1:62:B:LYS:HE2	1:57:B:PHE:HZ	18	0.12
(2,1896)	1:70:B:SER:HB3	1:69:B:LYS:HB3	3	0.12
(2,1896)	1:70:B:SER:HB3	1:69:B:LYS:HB3	10	0.12
(2,1894)	1:26:B:LYS:HD3	1:26:B:LYS:HB3	24	0.12
(2,1883)	1:73:B:GLY:H	1:74:B:ASN:HD22	10	0.12
(2,1879)	1:67:B:ASN:HB2	1:67:B:ASN:H	11	0.12
(2,1876)	1:48:B:SER:H	1:46:B:GLY:HA2	9	0.12
(2,1876)	1:48:B:SER:H	1:46:B:GLY:HA2	12	0.12
(2,1866)	1:13:B:ILE:H	1:13:B:ILE:HD11	13	0.12
(2,1866)	1:13:B:ILE:H	1:13:B:ILE:HD12	13	0.12
(2,1866)	1:13:B:ILE:H	1:13:B:ILE:HD13	13	0.12
(2,1832)	1:10:B:MET:HA	1:10:B:MET:HB2	2	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1832)	1:10:B:MET:HA	1:10:B:MET:HB2	15	0.12
(2,1827)	1:88:B:TYR:HB2	1:59:B:ASN:H	7	0.12
(2,1827)	1:88:B:TYR:HB2	1:59:B:ASN:H	22	0.12
(2,1816)	1:45:B:TYR:HB2	1:24:B:LYS:HB3	15	0.12
(2,1753)	1:29:B:LEU:HB2	1:38:B:ALA:HA	13	0.12
(2,1753)	1:29:B:LEU:HB2	1:38:B:ALA:HA	15	0.12
(2,1753)	1:29:B:LEU:HB2	1:38:B:ALA:HA	20	0.12
(2,1737)	1:63:B:VAL:H	1:58:B:VAL:H	10	0.12
(2,1737)	1:63:B:VAL:H	1:58:B:VAL:H	22	0.12
(2,1736)	1:7:B:GLU:H	1:7:B:GLU:HG2	23	0.12
(2,1723)	1:67:B:ASN:H	1:67:B:ASN:HD22	16	0.12
(2,1715)	1:17:B:ASN:HD22	1:29:B:LEU:HB3	5	0.12
(2,1713)	1:38:B:ALA:H	1:37:B:LYS:HB3	13	0.12
(2,1651)	1:93:B:GLN:H	1:92:B:LYS:HB2	25	0.12
(2,1647)	1:46:B:GLY:HA2	1:47:B:ILE:HG12	21	0.12
(2,1635)	1:56:B:ILE:HA	1:54:B:TRP:HE3	1	0.12
(2,1635)	1:56:B:ILE:HA	1:54:B:TRP:HE3	17	0.12
(2,1621)	1:79:B:ILE:HA	1:82:B:LEU:HB3	10	0.12
(2,1606)	1:14:B:ASN:H	1:13:B:ILE:HB	16	0.12
(2,1582)	1:37:B:LYS:HG3	1:35:B:GLN:HB3	2	0.12
(2,1582)	1:37:B:LYS:HG3	1:35:B:GLN:HB3	8	0.12
(2,1582)	1:37:B:LYS:HG3	1:35:B:GLN:HB3	10	0.12
(2,1582)	1:37:B:LYS:HG3	1:35:B:GLN:HB3	21	0.12
(2,1581)	1:62:B:LYS:HD2	1:62:B:LYS:HG2	9	0.12
(2,1581)	1:62:B:LYS:HD2	1:62:B:LYS:HG2	24	0.12
(2,1560)	1:29:B:LEU:H	1:29:B:LEU:HB3	19	0.12
(2,1560)	1:29:B:LEU:H	1:29:B:LEU:HB3	24	0.12
(2,1542)	1:49:B:TYR:HD1	1:24:B:LYS:HE3	6	0.12
(2,1542)	1:49:B:TYR:HD2	1:24:B:LYS:HE3	6	0.12
(2,1542)	1:49:B:TYR:HD1	1:24:B:LYS:HE3	24	0.12
(2,1542)	1:49:B:TYR:HD2	1:24:B:LYS:HE3	24	0.12
(2,1532)	1:82:B:LEU:H	1:82:B:LEU:HG	23	0.12
(2,1522)	1:78:B:ASP:H	1:77:B:ASN:HB2	9	0.12
(2,1512)	1:27:B:LEU:HB3	1:40:B:SER:HA	22	0.12
(2,1481)	1:85:B:LYS:HB3	1:85:B:LYS:H	9	0.12
(2,1457)	1:85:B:LYS:H	1:84:B:ILE:HG12	23	0.12
(2,1453)	1:26:B:LYS:HG2	1:26:B:LYS:H	23	0.12
(2,1432)	1:33:B:GLY:HA3	1:86:B:GLY:HA3	20	0.12
(2,1431)	1:82:B:LEU:HG	1:84:B:ILE:HA	15	0.12
(2,1429)	1:87:B:MET:H	1:10:B:MET:HG2	5	0.12
(2,1428)	1:87:B:MET:H	1:10:B:MET:HG3	25	0.12
(2,1427)	1:75:B:ILE:HG12	1:70:B:SER:HB2	11	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1419)	1:46:B:GLY:HA3	1:71:B:THR:HA	19	0.12
(2,1394)	1:9:B:GLN:H	1:9:B:GLN:HB3	13	0.12
(2,1394)	1:9:B:GLN:H	1:9:B:GLN:HB3	21	0.12
(2,1380)	1:82:B:LEU:H	1:82:B:LEU:HB3	2	0.12
(2,1368)	1:48:B:SER:H	1:47:B:ILE:HG12	13	0.12
(2,1363)	1:19:B:LYS:H	1:15:B:SER:H	22	0.12
(2,1360)	1:9:B:GLN:H	1:8:B:GLU:HA	4	0.12
(2,1360)	1:9:B:GLN:H	1:8:B:GLU:HA	12	0.12
(2,1357)	1:11:B:ASN:H	1:11:B:ASN:HA	4	0.12
(2,1357)	1:11:B:ASN:H	1:11:B:ASN:HA	7	0.12
(2,1357)	1:11:B:ASN:H	1:11:B:ASN:HA	15	0.12
(2,1357)	1:11:B:ASN:H	1:11:B:ASN:HA	24	0.12
(2,1343)	1:49:B:TYR:H	1:48:B:SER:HB3	7	0.12
(2,1343)	1:49:B:TYR:H	1:48:B:SER:HB3	9	0.12
(2,1343)	1:49:B:TYR:H	1:48:B:SER:HB3	12	0.12
(2,1342)	1:61:B:GLU:H	1:61:B:GLU:HB3	24	0.12
(2,1336)	1:37:B:LYS:H	1:36:B:LEU:HB3	9	0.12
(2,1334)	1:27:B:LEU:H	1:27:B:LEU:HG	8	0.12
(2,1329)	1:82:B:LEU:H	1:83:B:ASN:HA	11	0.12
(2,1296)	1:83:B:ASN:H	1:83:B:ASN:HB3	9	0.12
(2,1296)	1:83:B:ASN:H	1:83:B:ASN:HB3	12	0.12
(2,1285)	1:31:B:MET:H	1:31:B:MET:HB3	4	0.12
(2,1265)	1:36:B:LEU:H	1:35:B:GLN:HB2	19	0.12
(2,1257)	1:84:B:ILE:H	1:83:B:ASN:H	22	0.12
(2,1232)	1:40:B:SER:H	1:39:B:THR:HB	14	0.12
(2,1232)	1:40:B:SER:H	1:39:B:THR:HB	20	0.12
(2,1206)	1:91:B:ILE:HG21	1:91:B:ILE:HD11	7	0.12
(2,1206)	1:91:B:ILE:HG21	1:91:B:ILE:HD12	7	0.12
(2,1206)	1:91:B:ILE:HG21	1:91:B:ILE:HD13	7	0.12
(2,1206)	1:91:B:ILE:HG22	1:91:B:ILE:HD11	7	0.12
(2,1206)	1:91:B:ILE:HG22	1:91:B:ILE:HD12	7	0.12
(2,1206)	1:91:B:ILE:HG22	1:91:B:ILE:HD13	7	0.12
(2,1206)	1:91:B:ILE:HG23	1:91:B:ILE:HD11	7	0.12
(2,1206)	1:91:B:ILE:HG23	1:91:B:ILE:HD12	7	0.12
(2,1206)	1:91:B:ILE:HG23	1:91:B:ILE:HD13	7	0.12
(2,1203)	1:22:B:LYS:H	1:21:B:ASN:HB2	9	0.12
(2,1203)	1:22:B:LYS:H	1:21:B:ASN:HB2	18	0.12
(2,1198)	1:91:B:ILE:H	1:90:B:GLU:HB2	11	0.12
(2,1196)	1:84:B:ILE:H	1:82:B:LEU:HB2	8	0.12
(2,1196)	1:84:B:ILE:H	1:82:B:LEU:HB2	9	0.12
(2,1196)	1:84:B:ILE:H	1:82:B:LEU:HB2	12	0.12
(2,1196)	1:84:B:ILE:H	1:82:B:LEU:HB2	24	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1183)	1:47:B:ILE:H	1:47:B:ILE:HG13	5	0.12
(2,1183)	1:47:B:ILE:H	1:47:B:ILE:HG13	15	0.12
(2,1183)	1:47:B:ILE:H	1:47:B:ILE:HG13	23	0.12
(2,1176)	1:22:B:LYS:H	1:21:B:ASN:H	1	0.12
(2,1167)	1:24:B:LYS:HG2	1:23:B:GLY:H	15	0.12
(2,1163)	1:27:B:LEU:H	1:27:B:LEU:HB2	23	0.12
(2,1148)	1:75:B:ILE:H	1:74:B:ASN:HB3	18	0.12
(2,1137)	1:35:B:GLN:H	1:33:B:GLY:HA3	14	0.12
(2,1110)	1:69:B:LYS:H	1:68:B:GLU:H	8	0.12
(2,1104)	1:64:B:TYR:H	1:63:B:VAL:H	20	0.12
(2,1098)	1:56:B:ILE:H	1:56:B:ILE:HG12	10	0.12
(2,1047)	1:89:B:ILE:H	1:88:B:TYR:H	20	0.12
(2,1039)	1:84:B:ILE:H	1:84:B:ILE:HG13	16	0.12
(2,1034)	1:19:B:LYS:HG3	1:18:B:ASP:H	16	0.12
(2,1034)	1:19:B:LYS:HG3	1:18:B:ASP:H	24	0.12
(2,1033)	1:16:B:VAL:H	1:14:B:ASN:HB3	11	0.12
(2,1033)	1:16:B:VAL:H	1:14:B:ASN:HB3	19	0.12
(2,998)	1:35:B:GLN:HG3	1:35:B:GLN:HE22	3	0.12
(2,998)	1:35:B:GLN:HG3	1:35:B:GLN:HE22	13	0.12
(2,982)	1:32:B:ASN:H	1:31:B:MET:HB2	2	0.12
(2,982)	1:32:B:ASN:H	1:31:B:MET:HB2	22	0.12
(2,945)	1:48:B:SER:HB3	1:48:B:SER:H	21	0.12
(2,934)	1:58:B:VAL:HG21	1:59:B:ASN:H	2	0.12
(2,934)	1:58:B:VAL:HG22	1:59:B:ASN:H	2	0.12
(2,934)	1:58:B:VAL:HG23	1:59:B:ASN:H	2	0.12
(2,930)	1:4:B:LYS:H	1:4:B:LYS:HG3	8	0.12
(2,930)	1:4:B:LYS:H	1:4:B:LYS:HG3	25	0.12
(2,926)	1:79:B:ILE:H	1:78:B:ASP:H	7	0.12
(2,926)	1:79:B:ILE:H	1:78:B:ASP:H	14	0.12
(2,926)	1:79:B:ILE:H	1:78:B:ASP:H	16	0.12
(2,912)	1:80:B:ASN:H	1:77:B:ASN:HA	13	0.12
(2,912)	1:80:B:ASN:H	1:77:B:ASN:HA	14	0.12
(2,912)	1:80:B:ASN:H	1:77:B:ASN:HA	19	0.12
(2,909)	1:18:B:ASP:H	1:15:B:SER:HA	18	0.12
(2,909)	1:18:B:ASP:H	1:15:B:SER:HA	22	0.12
(2,875)	1:37:B:LYS:H	1:36:B:LEU:HD11	18	0.12
(2,875)	1:37:B:LYS:H	1:36:B:LEU:HD12	18	0.12
(2,875)	1:37:B:LYS:H	1:36:B:LEU:HD13	18	0.12
(2,868)	1:54:B:TRP:H	1:54:B:TRP:HB3	8	0.12
(2,868)	1:54:B:TRP:H	1:54:B:TRP:HB3	11	0.12
(2,868)	1:54:B:TRP:H	1:54:B:TRP:HB3	25	0.12
(2,862)	1:61:B:GLU:H	1:61:B:GLU:HG3	25	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,857)	1:89:B:ILE:H	1:89:B:ILE:HD11	21	0.12
(2,857)	1:89:B:ILE:H	1:89:B:ILE:HD12	21	0.12
(2,857)	1:89:B:ILE:H	1:89:B:ILE:HD13	21	0.12
(2,851)	1:21:B:ASN:HB2	1:21:B:ASN:H	16	0.12
(2,832)	1:35:B:GLN:HG2	1:35:B:GLN:HE22	7	0.12
(2,829)	1:50:B:GLU:H	1:49:B:TYR:HB3	18	0.12
(2,817)	1:32:B:ASN:H	1:31:B:MET:HB3	5	0.12
(2,797)	1:94:B:ILE:H	1:94:B:ILE:HG13	3	0.12
(2,797)	1:94:B:ILE:H	1:94:B:ILE:HG13	10	0.12
(2,795)	1:19:B:LYS:HB3	1:19:B:LYS:H	24	0.12
(2,763)	1:42:B:ASN:H	1:42:B:ASN:HA	12	0.12
(2,763)	1:42:B:ASN:H	1:42:B:ASN:HA	24	0.12
(2,744)	1:15:B:SER:H	1:15:B:SER:HA	5	0.12
(2,733)	1:63:B:VAL:H	1:62:B:LYS:HG3	10	0.12
(2,733)	1:63:B:VAL:H	1:62:B:LYS:HG3	17	0.12
(2,706)	1:19:B:LYS:HD3	1:19:B:LYS:HA	19	0.12
(2,621)	1:86:B:GLY:H	1:87:B:MET:HB2	24	0.12
(2,588)	1:81:B:LYS:H	1:80:B:ASN:HB3	7	0.12
(2,576)	1:62:B:LYS:HD3	1:57:B:PHE:HZ	23	0.12
(2,575)	1:27:B:LEU:H	1:39:B:THR:H	9	0.12
(2,575)	1:27:B:LEU:H	1:39:B:THR:H	18	0.12
(2,575)	1:27:B:LEU:H	1:39:B:THR:H	20	0.12
(2,575)	1:27:B:LEU:H	1:39:B:THR:H	22	0.12
(2,565)	1:17:B:ASN:HD22	1:17:B:ASN:HB2	3	0.12
(2,564)	1:4:B:LYS:H	1:4:B:LYS:HB2	12	0.12
(2,564)	1:4:B:LYS:H	1:4:B:LYS:HB2	15	0.12
(2,557)	1:20:B:LEU:HB3	1:54:B:TRP:HZ2	12	0.12
(2,539)	1:79:B:ILE:H	1:82:B:LEU:HG	21	0.12
(2,520)	1:62:B:LYS:HE2	1:57:B:PHE:HZ	18	0.12
(2,464)	1:70:B:SER:HB3	1:69:B:LYS:HB3	3	0.12
(2,464)	1:70:B:SER:HB3	1:69:B:LYS:HB3	10	0.12
(2,462)	1:26:B:LYS:HD3	1:26:B:LYS:HB3	24	0.12
(2,451)	1:73:B:GLY:H	1:74:B:ASN:HD22	10	0.12
(2,447)	1:67:B:ASN:HB2	1:67:B:ASN:H	11	0.12
(2,444)	1:48:B:SER:H	1:46:B:GLY:HA2	9	0.12
(2,444)	1:48:B:SER:H	1:46:B:GLY:HA2	12	0.12
(2,434)	1:13:B:ILE:H	1:13:B:ILE:HD11	13	0.12
(2,434)	1:13:B:ILE:H	1:13:B:ILE:HD12	13	0.12
(2,434)	1:13:B:ILE:H	1:13:B:ILE:HD13	13	0.12
(2,400)	1:10:B:MET:HA	1:10:B:MET:HB2	2	0.12
(2,400)	1:10:B:MET:HA	1:10:B:MET:HB2	15	0.12
(2,395)	1:88:B:TYR:HB2	1:59:B:ASN:H	7	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,395)	1:88:B:TYR:HB2	1:59:B:ASN:H	22	0.12
(2,384)	1:45:B:TYR:HB2	1:24:B:LYS:HB3	15	0.12
(2,321)	1:29:B:LEU:HB2	1:38:B:ALA:HA	13	0.12
(2,321)	1:29:B:LEU:HB2	1:38:B:ALA:HA	15	0.12
(2,321)	1:29:B:LEU:HB2	1:38:B:ALA:HA	20	0.12
(2,305)	1:63:B:VAL:H	1:58:B:VAL:H	10	0.12
(2,305)	1:63:B:VAL:H	1:58:B:VAL:H	22	0.12
(2,304)	1:7:B:GLU:H	1:7:B:GLU:HG2	23	0.12
(2,291)	1:67:B:ASN:H	1:67:B:ASN:HD22	16	0.12
(2,283)	1:17:B:ASN:HD22	1:29:B:LEU:HB3	5	0.12
(2,281)	1:38:B:ALA:H	1:37:B:LYS:HB3	13	0.12
(2,219)	1:93:B:GLN:H	1:92:B:LYS:HB2	25	0.12
(2,215)	1:46:B:GLY:HA2	1:47:B:ILE:HG12	21	0.12
(2,203)	1:56:B:ILE:HA	1:54:B:TRP:HE3	1	0.12
(2,203)	1:56:B:ILE:HA	1:54:B:TRP:HE3	17	0.12
(2,189)	1:79:B:ILE:HA	1:82:B:LEU:HB3	10	0.12
(2,174)	1:14:B:ASN:H	1:13:B:ILE:HB	16	0.12
(2,150)	1:37:B:LYS:HG3	1:35:B:GLN:HB3	2	0.12
(2,150)	1:37:B:LYS:HG3	1:35:B:GLN:HB3	8	0.12
(2,150)	1:37:B:LYS:HG3	1:35:B:GLN:HB3	10	0.12
(2,150)	1:37:B:LYS:HG3	1:35:B:GLN:HB3	21	0.12
(2,149)	1:62:B:LYS:HD2	1:62:B:LYS:HG2	9	0.12
(2,149)	1:62:B:LYS:HD2	1:62:B:LYS:HG2	24	0.12
(2,128)	1:29:B:LEU:H	1:29:B:LEU:HB3	19	0.12
(2,128)	1:29:B:LEU:H	1:29:B:LEU:HB3	24	0.12
(2,110)	1:49:B:TYR:HD1	1:24:B:LYS:HE3	6	0.12
(2,110)	1:49:B:TYR:HD2	1:24:B:LYS:HE3	6	0.12
(2,110)	1:49:B:TYR:HD1	1:24:B:LYS:HE3	24	0.12
(2,110)	1:49:B:TYR:HD2	1:24:B:LYS:HE3	24	0.12
(2,100)	1:82:B:LEU:H	1:82:B:LEU:HG	23	0.12
(2,90)	1:78:B:ASP:H	1:77:B:ASN:HB2	9	0.12
(2,80)	1:27:B:LEU:HB3	1:40:B:SER:HA	22	0.12
(2,49)	1:85:B:LYS:HB3	1:85:B:LYS:H	9	0.12
(2,25)	1:85:B:LYS:H	1:84:B:ILE:HG12	23	0.12
(1,105)	1:83:B:ASN:H	1:81:B:LYS:O	12	0.12
(1,99)	1:78:B:ASP:H	1:74:B:ASN:O	17	0.12
(1,96)	1:72:B:VAL:O	1:76:B:SER:N	1	0.12
(1,96)	1:72:B:VAL:O	1:76:B:SER:N	4	0.12
(1,96)	1:72:B:VAL:O	1:76:B:SER:N	7	0.12
(1,96)	1:72:B:VAL:O	1:76:B:SER:N	23	0.12
(1,92)	1:62:B:LYS:O	1:58:B:VAL:N	2	0.12
(1,86)	1:66:B:PHE:H	1:54:B:TRP:O	2	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,86)	1:66:B:PHE:H	1:54:B:TRP:O	9	0.12
(1,86)	1:66:B:PHE:H	1:54:B:TRP:O	12	0.12
(1,86)	1:66:B:PHE:H	1:54:B:TRP:O	21	0.12
(1,79)	1:35:B:GLN:H	1:32:B:ASN:O	8	0.12
(1,79)	1:35:B:GLN:H	1:32:B:ASN:O	9	0.12
(1,78)	1:37:B:LYS:H	1:30:B:SER:O	5	0.12
(1,78)	1:37:B:LYS:H	1:30:B:SER:O	7	0.12
(1,78)	1:37:B:LYS:H	1:30:B:SER:O	22	0.12
(1,75)	1:37:B:LYS:O	1:30:B:SER:N	8	0.12
(1,75)	1:37:B:LYS:O	1:30:B:SER:N	16	0.12
(1,68)	1:26:B:LYS:H	1:41:B:SER:O	8	0.12
(1,68)	1:26:B:LYS:H	1:41:B:SER:O	12	0.12
(1,60)	1:15:B:SER:H	1:11:B:ASN:O	25	0.12
(1,58)	1:83:B:ASN:H	1:81:B:LYS:O	12	0.12
(1,52)	1:78:B:ASP:H	1:74:B:ASN:O	17	0.12
(1,49)	1:72:B:VAL:O	1:76:B:SER:N	1	0.12
(1,49)	1:72:B:VAL:O	1:76:B:SER:N	4	0.12
(1,49)	1:72:B:VAL:O	1:76:B:SER:N	7	0.12
(1,49)	1:72:B:VAL:O	1:76:B:SER:N	23	0.12
(1,45)	1:62:B:LYS:O	1:58:B:VAL:N	2	0.12
(1,39)	1:66:B:PHE:H	1:54:B:TRP:O	2	0.12
(1,39)	1:66:B:PHE:H	1:54:B:TRP:O	9	0.12
(1,39)	1:66:B:PHE:H	1:54:B:TRP:O	12	0.12
(1,39)	1:66:B:PHE:H	1:54:B:TRP:O	21	0.12
(1,32)	1:35:B:GLN:H	1:32:B:ASN:O	8	0.12
(1,32)	1:35:B:GLN:H	1:32:B:ASN:O	9	0.12
(1,31)	1:37:B:LYS:H	1:30:B:SER:O	5	0.12
(1,31)	1:37:B:LYS:H	1:30:B:SER:O	7	0.12
(1,31)	1:37:B:LYS:H	1:30:B:SER:O	22	0.12
(1,28)	1:37:B:LYS:O	1:30:B:SER:N	8	0.12
(1,28)	1:37:B:LYS:O	1:30:B:SER:N	16	0.12
(1,21)	1:26:B:LYS:H	1:41:B:SER:O	8	0.12
(1,21)	1:26:B:LYS:H	1:41:B:SER:O	12	0.12
(1,13)	1:15:B:SER:H	1:11:B:ASN:O	25	0.12
(2,2884)	1:26:B:LYS:HG2	1:26:B:LYS:H	1	0.11
(2,2884)	1:26:B:LYS:HG2	1:26:B:LYS:H	11	0.11
(2,2883)	1:71:B:THR:H	1:71:B:THR:HB	25	0.11
(2,2877)	1:25:B:GLY:HA2	1:45:B:TYR:HB2	23	0.11
(2,2868)	1:37:B:LYS:HG2	1:32:B:ASN:H	1	0.11
(2,2868)	1:37:B:LYS:HG2	1:32:B:ASN:H	15	0.11
(2,2862)	1:82:B:LEU:HG	1:84:B:ILE:HA	19	0.11
(2,2855)	1:66:B:PHE:HA	1:70:B:SER:HB2	11	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2849)	1:47:B:ILE:HD11	1:23:B:GLY:HA3	18	0.11
(2,2849)	1:47:B:ILE:HD12	1:23:B:GLY:HA3	18	0.11
(2,2849)	1:47:B:ILE:HD13	1:23:B:GLY:HA3	18	0.11
(2,2848)	1:49:B:TYR:HA	1:52:B:LYS:HE3	5	0.11
(2,2841)	1:45:B:TYR:HB2	1:24:B:LYS:HB2	2	0.11
(2,2841)	1:45:B:TYR:HB2	1:24:B:LYS:HB2	9	0.11
(2,2837)	1:10:B:MET:H	1:10:B:MET:HB3	7	0.11
(2,2820)	1:87:B:MET:HG2	1:87:B:MET:H	4	0.11
(2,2812)	1:82:B:LEU:H	1:82:B:LEU:HB3	15	0.11
(2,2800)	1:48:B:SER:H	1:47:B:ILE:HG12	1	0.11
(2,2795)	1:19:B:LYS:H	1:15:B:SER:H	2	0.11
(2,2795)	1:19:B:LYS:H	1:15:B:SER:H	8	0.11
(2,2795)	1:19:B:LYS:H	1:15:B:SER:H	10	0.11
(2,2795)	1:19:B:LYS:H	1:15:B:SER:H	21	0.11
(2,2794)	1:18:B:ASP:H	1:17:B:ASN:HD22	5	0.11
(2,2794)	1:18:B:ASP:H	1:17:B:ASN:HD22	9	0.11
(2,2794)	1:18:B:ASP:H	1:17:B:ASN:HD22	17	0.11
(2,2792)	1:9:B:GLN:H	1:8:B:GLU:HA	11	0.11
(2,2792)	1:9:B:GLN:H	1:8:B:GLU:HA	18	0.11
(2,2792)	1:9:B:GLN:H	1:8:B:GLU:HA	19	0.11
(2,2792)	1:9:B:GLN:H	1:8:B:GLU:HA	20	0.11
(2,2791)	1:12:B:SER:H	1:13:B:ILE:HA	18	0.11
(2,2777)	1:12:B:SER:H	1:11:B:ASN:HB3	6	0.11
(2,2777)	1:12:B:SER:H	1:11:B:ASN:HB3	7	0.11
(2,2777)	1:12:B:SER:H	1:11:B:ASN:HB3	12	0.11
(2,2777)	1:12:B:SER:H	1:11:B:ASN:HB3	22	0.11
(2,2775)	1:49:B:TYR:H	1:48:B:SER:HB3	1	0.11
(2,2774)	1:61:B:GLU:H	1:61:B:GLU:HB3	5	0.11
(2,2774)	1:61:B:GLU:H	1:61:B:GLU:HB3	7	0.11
(2,2770)	1:41:B:SER:HB3	1:26:B:LYS:H	13	0.11
(2,2768)	1:37:B:LYS:H	1:36:B:LEU:HB3	6	0.11
(2,2768)	1:37:B:LYS:H	1:36:B:LEU:HB3	20	0.11
(2,2764)	1:75:B:ILE:H	1:71:B:THR:H	15	0.11
(2,2762)	1:66:B:PHE:H	1:54:B:TRP:H	12	0.11
(2,2761)	1:82:B:LEU:H	1:83:B:ASN:HA	9	0.11
(2,2761)	1:82:B:LEU:H	1:83:B:ASN:HA	15	0.11
(2,2761)	1:82:B:LEU:H	1:83:B:ASN:HA	20	0.11
(2,2761)	1:82:B:LEU:H	1:83:B:ASN:HA	21	0.11
(2,2755)	1:51:B:ASP:H	1:50:B:GLU:HB2	20	0.11
(2,2732)	1:43:B:ALA:H	1:26:B:LYS:HE3	18	0.11
(2,2719)	1:74:B:ASN:HA	1:77:B:ASN:HD22	9	0.11
(2,2719)	1:74:B:ASN:HA	1:77:B:ASN:HD22	15	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2719)	1:74:B:ASN:HA	1:77:B:ASN:HD22	18	0.11
(2,2717)	1:31:B:MET:H	1:31:B:MET:HB3	25	0.11
(2,2709)	1:84:B:ILE:H	1:84:B:ILE:HD11	17	0.11
(2,2709)	1:84:B:ILE:H	1:84:B:ILE:HD12	17	0.11
(2,2709)	1:84:B:ILE:H	1:84:B:ILE:HD13	17	0.11
(2,2698)	1:20:B:LEU:H	1:20:B:LEU:HG	15	0.11
(2,2697)	1:36:B:LEU:H	1:35:B:GLN:HB2	8	0.11
(2,2697)	1:36:B:LEU:H	1:35:B:GLN:HB2	17	0.11
(2,2664)	1:40:B:SER:H	1:39:B:THR:HB	22	0.11
(2,2654)	1:38:B:ALA:H	1:29:B:LEU:HB2	22	0.11
(2,2641)	1:85:B:LYS:H	1:84:B:ILE:HA	14	0.11
(2,2641)	1:85:B:LYS:H	1:84:B:ILE:HA	24	0.11
(2,2635)	1:22:B:LYS:H	1:21:B:ASN:HB2	15	0.11
(2,2608)	1:22:B:LYS:H	1:21:B:ASN:H	2	0.11
(2,2597)	1:49:B:TYR:H	1:48:B:SER:HB2	2	0.11
(2,2597)	1:49:B:TYR:H	1:48:B:SER:HB2	20	0.11
(2,2580)	1:75:B:ILE:H	1:74:B:ASN:HB3	15	0.11
(2,2580)	1:75:B:ILE:H	1:74:B:ASN:HB3	17	0.11
(2,2560)	1:89:B:ILE:HG12	1:89:B:ILE:H	9	0.11
(2,2560)	1:89:B:ILE:HG12	1:89:B:ILE:H	13	0.11
(2,2554)	1:79:B:ILE:HG12	1:79:B:ILE:H	12	0.11
(2,2554)	1:79:B:ILE:HG12	1:79:B:ILE:H	15	0.11
(2,2545)	1:35:B:GLN:H	1:34:B:ASN:H	9	0.11
(2,2542)	1:69:B:LYS:H	1:68:B:GLU:H	5	0.11
(2,2542)	1:69:B:LYS:H	1:68:B:GLU:H	18	0.11
(2,2536)	1:64:B:TYR:H	1:63:B:VAL:H	10	0.11
(2,2536)	1:64:B:TYR:H	1:63:B:VAL:H	12	0.11
(2,2536)	1:64:B:TYR:H	1:63:B:VAL:H	13	0.11
(2,2536)	1:64:B:TYR:H	1:63:B:VAL:H	19	0.11
(2,2530)	1:56:B:ILE:H	1:56:B:ILE:HG12	6	0.11
(2,2530)	1:56:B:ILE:H	1:56:B:ILE:HG12	16	0.11
(2,2519)	1:68:B:GLU:HB3	1:52:B:LYS:H	23	0.11
(2,2511)	1:19:B:LYS:HB3	1:18:B:ASP:H	13	0.11
(2,2511)	1:19:B:LYS:HB3	1:18:B:ASP:H	20	0.11
(2,2500)	1:24:B:LYS:H	1:24:B:LYS:HB2	3	0.11
(2,2459)	1:86:B:GLY:H	1:85:B:LYS:HG3	9	0.11
(2,2459)	1:86:B:GLY:H	1:85:B:LYS:HG3	19	0.11
(2,2459)	1:86:B:GLY:H	1:85:B:LYS:HG3	23	0.11
(2,2456)	1:85:B:LYS:HG3	1:85:B:LYS:H	25	0.11
(2,2430)	1:35:B:GLN:HG3	1:35:B:GLN:HE22	1	0.11
(2,2430)	1:35:B:GLN:HG3	1:35:B:GLN:HE22	23	0.11
(2,2414)	1:32:B:ASN:H	1:31:B:MET:HB2	9	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2414)	1:32:B:ASN:H	1:31:B:MET:HB2	16	0.11
(2,2414)	1:32:B:ASN:H	1:31:B:MET:HB2	24	0.11
(2,2404)	1:79:B:ILE:HD11	1:64:B:TYR:HD1	1	0.11
(2,2404)	1:79:B:ILE:HD11	1:64:B:TYR:HD2	1	0.11
(2,2404)	1:79:B:ILE:HD12	1:64:B:TYR:HD1	1	0.11
(2,2404)	1:79:B:ILE:HD12	1:64:B:TYR:HD2	1	0.11
(2,2404)	1:79:B:ILE:HD13	1:64:B:TYR:HD1	1	0.11
(2,2404)	1:79:B:ILE:HD13	1:64:B:TYR:HD2	1	0.11
(2,2404)	1:79:B:ILE:HD11	1:64:B:TYR:HD1	5	0.11
(2,2404)	1:79:B:ILE:HD11	1:64:B:TYR:HD2	5	0.11
(2,2404)	1:79:B:ILE:HD12	1:64:B:TYR:HD1	5	0.11
(2,2404)	1:79:B:ILE:HD12	1:64:B:TYR:HD2	5	0.11
(2,2404)	1:79:B:ILE:HD13	1:64:B:TYR:HD1	5	0.11
(2,2404)	1:79:B:ILE:HD13	1:64:B:TYR:HD2	5	0.11
(2,2404)	1:79:B:ILE:HD11	1:64:B:TYR:HD1	13	0.11
(2,2404)	1:79:B:ILE:HD11	1:64:B:TYR:HD2	13	0.11
(2,2404)	1:79:B:ILE:HD12	1:64:B:TYR:HD1	13	0.11
(2,2404)	1:79:B:ILE:HD12	1:64:B:TYR:HD2	13	0.11
(2,2404)	1:79:B:ILE:HD13	1:64:B:TYR:HD1	13	0.11
(2,2404)	1:79:B:ILE:HD13	1:64:B:TYR:HD2	13	0.11
(2,2394)	1:68:B:GLU:H	1:52:B:LYS:HB3	24	0.11
(2,2390)	1:20:B:LEU:H	1:20:B:LEU:HB3	20	0.11
(2,2358)	1:79:B:ILE:H	1:78:B:ASP:H	5	0.11
(2,2351)	1:64:B:TYR:H	1:62:B:LYS:HA	10	0.11
(2,2351)	1:64:B:TYR:H	1:62:B:LYS:HA	21	0.11
(2,2351)	1:64:B:TYR:H	1:62:B:LYS:HA	22	0.11
(2,2350)	1:69:B:LYS:H	1:69:B:LYS:HB3	21	0.11
(2,2344)	1:80:B:ASN:H	1:77:B:ASN:HA	15	0.11
(2,2323)	1:13:B:ILE:HG12	1:9:B:GLN:HE22	9	0.11
(2,2321)	1:94:B:ILE:H	1:93:B:GLN:HB2	12	0.11
(2,2307)	1:37:B:LYS:H	1:36:B:LEU:HD11	8	0.11
(2,2307)	1:37:B:LYS:H	1:36:B:LEU:HD12	8	0.11
(2,2307)	1:37:B:LYS:H	1:36:B:LEU:HD13	8	0.11
(2,2307)	1:37:B:LYS:H	1:36:B:LEU:HD11	10	0.11
(2,2307)	1:37:B:LYS:H	1:36:B:LEU:HD12	10	0.11
(2,2307)	1:37:B:LYS:H	1:36:B:LEU:HD13	10	0.11
(2,2306)	1:68:B:GLU:HG3	1:68:B:GLU:H	15	0.11
(2,2300)	1:54:B:TRP:H	1:54:B:TRP:HB3	2	0.11
(2,2300)	1:54:B:TRP:H	1:54:B:TRP:HB3	3	0.11
(2,2300)	1:54:B:TRP:H	1:54:B:TRP:HB3	14	0.11
(2,2300)	1:54:B:TRP:H	1:54:B:TRP:HB3	22	0.11
(2,2283)	1:21:B:ASN:HB2	1:21:B:ASN:H	24	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2279)	1:58:B:VAL:H	1:61:B:GLU:HB3	21	0.11
(2,2264)	1:35:B:GLN:HG2	1:35:B:GLN:HE22	24	0.11
(2,2257)	1:46:B:GLY:H	1:47:B:ILE:HD11	20	0.11
(2,2257)	1:46:B:GLY:H	1:47:B:ILE:HD12	20	0.11
(2,2257)	1:46:B:GLY:H	1:47:B:ILE:HD13	20	0.11
(2,2249)	1:32:B:ASN:H	1:31:B:MET:HB3	8	0.11
(2,2249)	1:32:B:ASN:H	1:31:B:MET:HB3	14	0.11
(2,2249)	1:32:B:ASN:H	1:31:B:MET:HB3	22	0.11
(2,2239)	1:21:B:ASN:HB2	1:21:B:ASN:HD22	13	0.11
(2,2236)	1:31:B:MET:H	1:30:B:SER:HB3	13	0.11
(2,2229)	1:94:B:ILE:H	1:94:B:ILE:HG13	13	0.11
(2,2229)	1:94:B:ILE:H	1:94:B:ILE:HG13	16	0.11
(2,2227)	1:19:B:LYS:HB3	1:19:B:LYS:H	6	0.11
(2,2227)	1:19:B:LYS:HB3	1:19:B:LYS:H	23	0.11
(2,2206)	1:92:B:LYS:HG2	1:92:B:LYS:H	11	0.11
(2,2181)	1:16:B:VAL:HG11	1:20:B:LEU:HD11	5	0.11
(2,2181)	1:16:B:VAL:HG11	1:20:B:LEU:HD12	5	0.11
(2,2181)	1:16:B:VAL:HG11	1:20:B:LEU:HD13	5	0.11
(2,2181)	1:16:B:VAL:HG12	1:20:B:LEU:HD11	5	0.11
(2,2181)	1:16:B:VAL:HG12	1:20:B:LEU:HD12	5	0.11
(2,2181)	1:16:B:VAL:HG12	1:20:B:LEU:HD13	5	0.11
(2,2181)	1:16:B:VAL:HG13	1:20:B:LEU:HD11	5	0.11
(2,2181)	1:16:B:VAL:HG13	1:20:B:LEU:HD12	5	0.11
(2,2181)	1:16:B:VAL:HG13	1:20:B:LEU:HD13	5	0.11
(2,2176)	1:15:B:SER:H	1:15:B:SER:HA	19	0.11
(2,2165)	1:63:B:VAL:H	1:62:B:LYS:HG3	1	0.11
(2,2165)	1:63:B:VAL:H	1:62:B:LYS:HG3	3	0.11
(2,2151)	1:62:B:LYS:HD3	1:62:B:LYS:HG2	6	0.11
(2,2151)	1:62:B:LYS:HD3	1:62:B:LYS:HG2	11	0.11
(2,2151)	1:62:B:LYS:HD3	1:62:B:LYS:HG2	19	0.11
(2,2136)	1:35:B:GLN:HG2	1:35:B:GLN:H	1	0.11
(2,2136)	1:35:B:GLN:HG2	1:35:B:GLN:H	11	0.11
(2,2136)	1:35:B:GLN:HG2	1:35:B:GLN:H	12	0.11
(2,2134)	1:26:B:LYS:H	1:26:B:LYS:HB3	6	0.11
(2,2134)	1:26:B:LYS:H	1:26:B:LYS:HB3	10	0.11
(2,2114)	1:94:B:ILE:H	1:94:B:ILE:HB	14	0.11
(2,2114)	1:94:B:ILE:H	1:94:B:ILE:HB	21	0.11
(2,2101)	1:46:B:GLY:H	1:45:B:TYR:HB3	7	0.11
(2,2097)	1:42:B:ASN:H	1:41:B:SER:HB3	20	0.11
(2,2087)	1:67:B:ASN:HB3	1:66:B:PHE:HA	18	0.11
(2,2087)	1:67:B:ASN:HB3	1:66:B:PHE:HA	19	0.11
(2,2087)	1:67:B:ASN:HB3	1:66:B:PHE:HA	25	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2076)	1:88:B:TYR:HD1	1:89:B:ILE:HA	16	0.11
(2,2076)	1:88:B:TYR:HD2	1:89:B:ILE:HA	16	0.11
(2,2053)	1:86:B:GLY:H	1:87:B:MET:HB2	19	0.11
(2,2020)	1:81:B:LYS:H	1:80:B:ASN:HB3	16	0.11
(2,2020)	1:81:B:LYS:H	1:80:B:ASN:HB3	20	0.11
(2,2007)	1:27:B:LEU:H	1:39:B:THR:H	2	0.11
(2,2007)	1:27:B:LEU:H	1:39:B:THR:H	16	0.11
(2,2003)	1:11:B:ASN:H	1:13:B:ILE:HG13	10	0.11
(2,1994)	1:50:B:GLU:HA	1:51:B:ASP:HB2	20	0.11
(2,1989)	1:20:B:LEU:HB3	1:54:B:TRP:HZ2	4	0.11
(2,1981)	1:58:B:VAL:H	1:61:B:GLU:HB2	1	0.11
(2,1975)	1:52:B:LYS:HG2	1:52:B:LYS:HB3	14	0.11
(2,1975)	1:52:B:LYS:HG2	1:52:B:LYS:HB3	17	0.11
(2,1965)	1:46:B:GLY:H	1:45:B:TYR:HD1	8	0.11
(2,1965)	1:46:B:GLY:H	1:45:B:TYR:HD2	8	0.11
(2,1933)	1:51:B:ASP:H	1:51:B:ASP:HB2	13	0.11
(2,1901)	1:57:B:PHE:HZ	1:56:B:ILE:HA	9	0.11
(2,1881)	1:90:B:GLU:HB3	1:90:B:GLU:HG3	3	0.11
(2,1881)	1:90:B:GLU:HB3	1:90:B:GLU:HG3	15	0.11
(2,1881)	1:90:B:GLU:HB3	1:90:B:GLU:HG3	18	0.11
(2,1876)	1:48:B:SER:H	1:46:B:GLY:HA2	1	0.11
(2,1873)	1:41:B:SER:H	1:26:B:LYS:HB3	25	0.11
(2,1868)	1:9:B:GLN:HB3	1:9:B:GLN:HA	22	0.11
(2,1866)	1:13:B:ILE:H	1:13:B:ILE:HD11	25	0.11
(2,1866)	1:13:B:ILE:H	1:13:B:ILE:HD12	25	0.11
(2,1866)	1:13:B:ILE:H	1:13:B:ILE:HD13	25	0.11
(2,1849)	1:41:B:SER:HB2	1:41:B:SER:HA	14	0.11
(2,1849)	1:41:B:SER:HB2	1:41:B:SER:HA	19	0.11
(2,1832)	1:10:B:MET:HA	1:10:B:MET:HB2	4	0.11
(2,1830)	1:68:B:GLU:H	1:51:B:ASP:HB2	20	0.11
(2,1827)	1:88:B:TYR:HB2	1:59:B:ASN:H	21	0.11
(2,1815)	1:84:B:ILE:HG12	1:84:B:ILE:HA	11	0.11
(2,1803)	1:89:B:ILE:HB	1:88:B:TYR:HA	12	0.11
(2,1803)	1:89:B:ILE:HB	1:88:B:TYR:HA	20	0.11
(2,1753)	1:29:B:LEU:HB2	1:38:B:ALA:HA	16	0.11
(2,1744)	1:86:B:GLY:H	1:85:B:LYS:HB3	1	0.11
(2,1742)	1:22:B:LYS:HG3	1:21:B:ASN:H	18	0.11
(2,1737)	1:63:B:VAL:H	1:58:B:VAL:H	5	0.11
(2,1736)	1:7:B:GLU:H	1:7:B:GLU:HG2	10	0.11
(2,1722)	1:64:B:TYR:HB2	1:56:B:ILE:HG12	5	0.11
(2,1690)	1:37:B:LYS:HG2	1:37:B:LYS:HD3	21	0.11
(2,1690)	1:37:B:LYS:HG2	1:37:B:LYS:HD3	22	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1651)	1:93:B:GLN:H	1:92:B:LYS:HB2	15	0.11
(2,1651)	1:93:B:GLN:H	1:92:B:LYS:HB2	21	0.11
(2,1650)	1:16:B:VAL:HA	1:19:B:LYS:HG3	22	0.11
(2,1647)	1:46:B:GLY:HA2	1:47:B:ILE:HG12	16	0.11
(2,1621)	1:79:B:ILE:HA	1:82:B:LEU:HB3	20	0.11
(2,1606)	1:14:B:ASN:H	1:13:B:ILE:HB	17	0.11
(2,1582)	1:37:B:LYS:HG3	1:35:B:GLN:HB3	13	0.11
(2,1582)	1:37:B:LYS:HG3	1:35:B:GLN:HB3	25	0.11
(2,1547)	1:41:B:SER:H	1:26:B:LYS:HG3	8	0.11
(2,1547)	1:41:B:SER:H	1:26:B:LYS:HG3	12	0.11
(2,1532)	1:82:B:LEU:H	1:82:B:LEU:HG	5	0.11
(2,1530)	1:30:B:SER:HB2	1:30:B:SER:HA	22	0.11
(2,1522)	1:78:B:ASP:H	1:77:B:ASN:HB2	15	0.11
(2,1522)	1:78:B:ASP:H	1:77:B:ASN:HB2	24	0.11
(2,1482)	1:25:B:GLY:H	1:45:B:TYR:HB2	18	0.11
(2,1468)	1:25:B:GLY:HA2	1:45:B:TYR:HB3	5	0.11
(2,1453)	1:26:B:LYS:HG2	1:26:B:LYS:H	1	0.11
(2,1453)	1:26:B:LYS:HG2	1:26:B:LYS:H	11	0.11
(2,1452)	1:71:B:THR:H	1:71:B:THR:HB	25	0.11
(2,1446)	1:25:B:GLY:HA2	1:45:B:TYR:HB2	23	0.11
(2,1437)	1:37:B:LYS:HG2	1:32:B:ASN:H	1	0.11
(2,1437)	1:37:B:LYS:HG2	1:32:B:ASN:H	15	0.11
(2,1431)	1:82:B:LEU:HG	1:84:B:ILE:HA	19	0.11
(2,1423)	1:66:B:PHE:HA	1:70:B:SER:HB2	11	0.11
(2,1417)	1:47:B:ILE:HD11	1:23:B:GLY:HA3	18	0.11
(2,1417)	1:47:B:ILE:HD12	1:23:B:GLY:HA3	18	0.11
(2,1417)	1:47:B:ILE:HD13	1:23:B:GLY:HA3	18	0.11
(2,1416)	1:49:B:TYR:HA	1:52:B:LYS:HE3	5	0.11
(2,1409)	1:45:B:TYR:HB2	1:24:B:LYS:HB2	2	0.11
(2,1409)	1:45:B:TYR:HB2	1:24:B:LYS:HB2	9	0.11
(2,1405)	1:10:B:MET:H	1:10:B:MET:HB3	7	0.11
(2,1388)	1:87:B:MET:HG2	1:87:B:MET:H	4	0.11
(2,1380)	1:82:B:LEU:H	1:82:B:LEU:HB3	15	0.11
(2,1368)	1:48:B:SER:H	1:47:B:ILE:HG12	1	0.11
(2,1363)	1:19:B:LYS:H	1:15:B:SER:H	2	0.11
(2,1363)	1:19:B:LYS:H	1:15:B:SER:H	8	0.11
(2,1363)	1:19:B:LYS:H	1:15:B:SER:H	10	0.11
(2,1363)	1:19:B:LYS:H	1:15:B:SER:H	21	0.11
(2,1362)	1:18:B:ASP:H	1:17:B:ASN:HD22	5	0.11
(2,1362)	1:18:B:ASP:H	1:17:B:ASN:HD22	9	0.11
(2,1362)	1:18:B:ASP:H	1:17:B:ASN:HD22	17	0.11
(2,1360)	1:9:B:GLN:H	1:8:B:GLU:HA	11	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1360)	1:9:B:GLN:H	1:8:B:GLU:HA	18	0.11
(2,1360)	1:9:B:GLN:H	1:8:B:GLU:HA	19	0.11
(2,1360)	1:9:B:GLN:H	1:8:B:GLU:HA	20	0.11
(2,1359)	1:12:B:SER:H	1:13:B:ILE:HA	18	0.11
(2,1345)	1:12:B:SER:H	1:11:B:ASN:HB3	6	0.11
(2,1345)	1:12:B:SER:H	1:11:B:ASN:HB3	7	0.11
(2,1345)	1:12:B:SER:H	1:11:B:ASN:HB3	12	0.11
(2,1345)	1:12:B:SER:H	1:11:B:ASN:HB3	22	0.11
(2,1343)	1:49:B:TYR:H	1:48:B:SER:HB3	1	0.11
(2,1342)	1:61:B:GLU:H	1:61:B:GLU:HB3	5	0.11
(2,1342)	1:61:B:GLU:H	1:61:B:GLU:HB3	7	0.11
(2,1338)	1:41:B:SER:HB3	1:26:B:LYS:H	13	0.11
(2,1336)	1:37:B:LYS:H	1:36:B:LEU:HB3	6	0.11
(2,1336)	1:37:B:LYS:H	1:36:B:LEU:HB3	20	0.11
(2,1332)	1:75:B:ILE:H	1:71:B:THR:H	15	0.11
(2,1330)	1:66:B:PHE:H	1:54:B:TRP:H	12	0.11
(2,1329)	1:82:B:LEU:H	1:83:B:ASN:HA	9	0.11
(2,1329)	1:82:B:LEU:H	1:83:B:ASN:HA	15	0.11
(2,1329)	1:82:B:LEU:H	1:83:B:ASN:HA	20	0.11
(2,1329)	1:82:B:LEU:H	1:83:B:ASN:HA	21	0.11
(2,1323)	1:51:B:ASP:H	1:50:B:GLU:HB2	20	0.11
(2,1300)	1:43:B:ALA:H	1:26:B:LYS:HE3	18	0.11
(2,1287)	1:74:B:ASN:HA	1:77:B:ASN:HD22	9	0.11
(2,1287)	1:74:B:ASN:HA	1:77:B:ASN:HD22	15	0.11
(2,1287)	1:74:B:ASN:HA	1:77:B:ASN:HD22	18	0.11
(2,1285)	1:31:B:MET:H	1:31:B:MET:HB3	25	0.11
(2,1277)	1:84:B:ILE:H	1:84:B:ILE:HD11	17	0.11
(2,1277)	1:84:B:ILE:H	1:84:B:ILE:HD12	17	0.11
(2,1277)	1:84:B:ILE:H	1:84:B:ILE:HD13	17	0.11
(2,1266)	1:20:B:LEU:H	1:20:B:LEU:HG	15	0.11
(2,1265)	1:36:B:LEU:H	1:35:B:GLN:HB2	8	0.11
(2,1265)	1:36:B:LEU:H	1:35:B:GLN:HB2	17	0.11
(2,1232)	1:40:B:SER:H	1:39:B:THR:HB	22	0.11
(2,1222)	1:38:B:ALA:H	1:29:B:LEU:HB2	22	0.11
(2,1209)	1:85:B:LYS:H	1:84:B:ILE:HA	14	0.11
(2,1209)	1:85:B:LYS:H	1:84:B:ILE:HA	24	0.11
(2,1203)	1:22:B:LYS:H	1:21:B:ASN:HB2	15	0.11
(2,1176)	1:22:B:LYS:H	1:21:B:ASN:H	2	0.11
(2,1165)	1:49:B:TYR:H	1:48:B:SER:HB2	2	0.11
(2,1165)	1:49:B:TYR:H	1:48:B:SER:HB2	20	0.11
(2,1148)	1:75:B:ILE:H	1:74:B:ASN:HB3	15	0.11
(2,1148)	1:75:B:ILE:H	1:74:B:ASN:HB3	17	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1128)	1:89:B:ILE:HG12	1:89:B:ILE:H	9	0.11
(2,1128)	1:89:B:ILE:HG12	1:89:B:ILE:H	13	0.11
(2,1122)	1:79:B:ILE:HG12	1:79:B:ILE:H	12	0.11
(2,1122)	1:79:B:ILE:HG12	1:79:B:ILE:H	15	0.11
(2,1113)	1:35:B:GLN:H	1:34:B:ASN:H	9	0.11
(2,1110)	1:69:B:LYS:H	1:68:B:GLU:H	5	0.11
(2,1110)	1:69:B:LYS:H	1:68:B:GLU:H	18	0.11
(2,1104)	1:64:B:TYR:H	1:63:B:VAL:H	10	0.11
(2,1104)	1:64:B:TYR:H	1:63:B:VAL:H	12	0.11
(2,1104)	1:64:B:TYR:H	1:63:B:VAL:H	13	0.11
(2,1104)	1:64:B:TYR:H	1:63:B:VAL:H	19	0.11
(2,1098)	1:56:B:ILE:H	1:56:B:ILE:HG12	6	0.11
(2,1098)	1:56:B:ILE:H	1:56:B:ILE:HG12	16	0.11
(2,1087)	1:68:B:GLU:HB3	1:52:B:LYS:H	23	0.11
(2,1079)	1:19:B:LYS:HB3	1:18:B:ASP:H	13	0.11
(2,1079)	1:19:B:LYS:HB3	1:18:B:ASP:H	20	0.11
(2,1068)	1:24:B:LYS:H	1:24:B:LYS:HB2	3	0.11
(2,1027)	1:86:B:GLY:H	1:85:B:LYS:HG3	9	0.11
(2,1027)	1:86:B:GLY:H	1:85:B:LYS:HG3	19	0.11
(2,1027)	1:86:B:GLY:H	1:85:B:LYS:HG3	23	0.11
(2,1024)	1:85:B:LYS:HG3	1:85:B:LYS:H	25	0.11
(2,998)	1:35:B:GLN:HG3	1:35:B:GLN:HE22	1	0.11
(2,998)	1:35:B:GLN:HG3	1:35:B:GLN:HE22	23	0.11
(2,982)	1:32:B:ASN:H	1:31:B:MET:HB2	9	0.11
(2,982)	1:32:B:ASN:H	1:31:B:MET:HB2	16	0.11
(2,982)	1:32:B:ASN:H	1:31:B:MET:HB2	24	0.11
(2,972)	1:79:B:ILE:HD11	1:64:B:TYR:HD1	1	0.11
(2,972)	1:79:B:ILE:HD11	1:64:B:TYR:HD2	1	0.11
(2,972)	1:79:B:ILE:HD12	1:64:B:TYR:HD1	1	0.11
(2,972)	1:79:B:ILE:HD12	1:64:B:TYR:HD2	1	0.11
(2,972)	1:79:B:ILE:HD13	1:64:B:TYR:HD1	1	0.11
(2,972)	1:79:B:ILE:HD13	1:64:B:TYR:HD2	1	0.11
(2,972)	1:79:B:ILE:HD11	1:64:B:TYR:HD1	5	0.11
(2,972)	1:79:B:ILE:HD11	1:64:B:TYR:HD2	5	0.11
(2,972)	1:79:B:ILE:HD12	1:64:B:TYR:HD1	5	0.11
(2,972)	1:79:B:ILE:HD12	1:64:B:TYR:HD2	5	0.11
(2,972)	1:79:B:ILE:HD13	1:64:B:TYR:HD1	5	0.11
(2,972)	1:79:B:ILE:HD13	1:64:B:TYR:HD2	5	0.11
(2,972)	1:79:B:ILE:HD11	1:64:B:TYR:HD1	13	0.11
(2,972)	1:79:B:ILE:HD11	1:64:B:TYR:HD2	13	0.11
(2,972)	1:79:B:ILE:HD12	1:64:B:TYR:HD1	13	0.11
(2,972)	1:79:B:ILE:HD12	1:64:B:TYR:HD2	13	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,972)	1:79:B:ILE:HD13	1:64:B:TYR:HD1	13	0.11
(2,972)	1:79:B:ILE:HD13	1:64:B:TYR:HD2	13	0.11
(2,962)	1:68:B:GLU:H	1:52:B:LYS:HB3	24	0.11
(2,958)	1:20:B:LEU:H	1:20:B:LEU:HB3	20	0.11
(2,926)	1:79:B:ILE:H	1:78:B:ASP:H	5	0.11
(2,919)	1:64:B:TYR:H	1:62:B:LYS:HA	10	0.11
(2,919)	1:64:B:TYR:H	1:62:B:LYS:HA	21	0.11
(2,919)	1:64:B:TYR:H	1:62:B:LYS:HA	22	0.11
(2,918)	1:69:B:LYS:H	1:69:B:LYS:HB3	21	0.11
(2,912)	1:80:B:ASN:H	1:77:B:ASN:HA	15	0.11
(2,891)	1:13:B:ILE:HG12	1:9:B:GLN:HE22	9	0.11
(2,889)	1:94:B:ILE:H	1:93:B:GLN:HB2	12	0.11
(2,875)	1:37:B:LYS:H	1:36:B:LEU:HD11	8	0.11
(2,875)	1:37:B:LYS:H	1:36:B:LEU:HD12	8	0.11
(2,875)	1:37:B:LYS:H	1:36:B:LEU:HD13	8	0.11
(2,875)	1:37:B:LYS:H	1:36:B:LEU:HD11	10	0.11
(2,875)	1:37:B:LYS:H	1:36:B:LEU:HD12	10	0.11
(2,875)	1:37:B:LYS:H	1:36:B:LEU:HD13	10	0.11
(2,874)	1:68:B:GLU:HG3	1:68:B:GLU:H	15	0.11
(2,868)	1:54:B:TRP:H	1:54:B:TRP:HB3	2	0.11
(2,868)	1:54:B:TRP:H	1:54:B:TRP:HB3	3	0.11
(2,868)	1:54:B:TRP:H	1:54:B:TRP:HB3	14	0.11
(2,868)	1:54:B:TRP:H	1:54:B:TRP:HB3	22	0.11
(2,851)	1:21:B:ASN:HB2	1:21:B:ASN:H	24	0.11
(2,847)	1:58:B:VAL:H	1:61:B:GLU:HB3	21	0.11
(2,832)	1:35:B:GLN:HG2	1:35:B:GLN:HE22	24	0.11
(2,825)	1:46:B:GLY:H	1:47:B:ILE:HD11	20	0.11
(2,825)	1:46:B:GLY:H	1:47:B:ILE:HD12	20	0.11
(2,825)	1:46:B:GLY:H	1:47:B:ILE:HD13	20	0.11
(2,817)	1:32:B:ASN:H	1:31:B:MET:HB3	8	0.11
(2,817)	1:32:B:ASN:H	1:31:B:MET:HB3	14	0.11
(2,817)	1:32:B:ASN:H	1:31:B:MET:HB3	22	0.11
(2,807)	1:21:B:ASN:HB2	1:21:B:ASN:HD22	13	0.11
(2,804)	1:31:B:MET:H	1:30:B:SER:HB3	13	0.11
(2,797)	1:94:B:ILE:H	1:94:B:ILE:HG13	13	0.11
(2,797)	1:94:B:ILE:H	1:94:B:ILE:HG13	16	0.11
(2,795)	1:19:B:LYS:HB3	1:19:B:LYS:H	6	0.11
(2,795)	1:19:B:LYS:HB3	1:19:B:LYS:H	23	0.11
(2,774)	1:92:B:LYS:HG2	1:92:B:LYS:H	11	0.11
(2,749)	1:16:B:VAL:HG11	1:20:B:LEU:HD11	5	0.11
(2,749)	1:16:B:VAL:HG11	1:20:B:LEU:HD12	5	0.11
(2,749)	1:16:B:VAL:HG11	1:20:B:LEU:HD13	5	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,749)	1:16:B:VAL:HG12	1:20:B:LEU:HD11	5	0.11
(2,749)	1:16:B:VAL:HG12	1:20:B:LEU:HD12	5	0.11
(2,749)	1:16:B:VAL:HG12	1:20:B:LEU:HD13	5	0.11
(2,749)	1:16:B:VAL:HG13	1:20:B:LEU:HD11	5	0.11
(2,749)	1:16:B:VAL:HG13	1:20:B:LEU:HD12	5	0.11
(2,749)	1:16:B:VAL:HG13	1:20:B:LEU:HD13	5	0.11
(2,744)	1:15:B:SER:H	1:15:B:SER:HA	19	0.11
(2,733)	1:63:B:VAL:H	1:62:B:LYS:HG3	1	0.11
(2,733)	1:63:B:VAL:H	1:62:B:LYS:HG3	3	0.11
(2,719)	1:62:B:LYS:HD3	1:62:B:LYS:HG2	6	0.11
(2,719)	1:62:B:LYS:HD3	1:62:B:LYS:HG2	11	0.11
(2,719)	1:62:B:LYS:HD3	1:62:B:LYS:HG2	19	0.11
(2,704)	1:35:B:GLN:HG2	1:35:B:GLN:H	1	0.11
(2,704)	1:35:B:GLN:HG2	1:35:B:GLN:H	11	0.11
(2,704)	1:35:B:GLN:HG2	1:35:B:GLN:H	12	0.11
(2,702)	1:26:B:LYS:H	1:26:B:LYS:HB3	6	0.11
(2,702)	1:26:B:LYS:H	1:26:B:LYS:HB3	10	0.11
(2,682)	1:94:B:ILE:H	1:94:B:ILE:HB	14	0.11
(2,682)	1:94:B:ILE:H	1:94:B:ILE:HB	21	0.11
(2,669)	1:46:B:GLY:H	1:45:B:TYR:HB3	7	0.11
(2,665)	1:42:B:ASN:H	1:41:B:SER:HB3	20	0.11
(2,655)	1:67:B:ASN:HB3	1:66:B:PHE:HA	18	0.11
(2,655)	1:67:B:ASN:HB3	1:66:B:PHE:HA	19	0.11
(2,655)	1:67:B:ASN:HB3	1:66:B:PHE:HA	25	0.11
(2,644)	1:88:B:TYR:HD1	1:89:B:ILE:HA	16	0.11
(2,644)	1:88:B:TYR:HD2	1:89:B:ILE:HA	16	0.11
(2,621)	1:86:B:GLY:H	1:87:B:MET:HB2	19	0.11
(2,588)	1:81:B:LYS:H	1:80:B:ASN:HB3	16	0.11
(2,588)	1:81:B:LYS:H	1:80:B:ASN:HB3	20	0.11
(2,575)	1:27:B:LEU:H	1:39:B:THR:H	2	0.11
(2,575)	1:27:B:LEU:H	1:39:B:THR:H	16	0.11
(2,571)	1:11:B:ASN:H	1:13:B:ILE:HG13	10	0.11
(2,562)	1:50:B:GLU:HA	1:51:B:ASP:HB2	20	0.11
(2,557)	1:20:B:LEU:HB3	1:54:B:TRP:HZ2	4	0.11
(2,549)	1:58:B:VAL:H	1:61:B:GLU:HB2	1	0.11
(2,543)	1:52:B:LYS:HG2	1:52:B:LYS:HB3	14	0.11
(2,543)	1:52:B:LYS:HG2	1:52:B:LYS:HB3	17	0.11
(2,533)	1:46:B:GLY:H	1:45:B:TYR:HD1	8	0.11
(2,533)	1:46:B:GLY:H	1:45:B:TYR:HD2	8	0.11
(2,501)	1:51:B:ASP:H	1:51:B:ASP:HB2	13	0.11
(2,469)	1:57:B:PHE:HZ	1:56:B:ILE:HA	9	0.11
(2,449)	1:90:B:GLU:HB3	1:90:B:GLU:HG3	3	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,449)	1:90:B:GLU:HB3	1:90:B:GLU:HG3	15	0.11
(2,449)	1:90:B:GLU:HB3	1:90:B:GLU:HG3	18	0.11
(2,444)	1:48:B:SER:H	1:46:B:GLY:HA2	1	0.11
(2,441)	1:41:B:SER:H	1:26:B:LYS:HB3	25	0.11
(2,436)	1:9:B:GLN:HB3	1:9:B:GLN:HA	22	0.11
(2,434)	1:13:B:ILE:H	1:13:B:ILE:HD11	25	0.11
(2,434)	1:13:B:ILE:H	1:13:B:ILE:HD12	25	0.11
(2,434)	1:13:B:ILE:H	1:13:B:ILE:HD13	25	0.11
(2,417)	1:41:B:SER:HB2	1:41:B:SER:HA	14	0.11
(2,417)	1:41:B:SER:HB2	1:41:B:SER:HA	19	0.11
(2,400)	1:10:B:MET:HA	1:10:B:MET:HB2	4	0.11
(2,398)	1:68:B:GLU:H	1:51:B:ASP:HB2	20	0.11
(2,395)	1:88:B:TYR:HB2	1:59:B:ASN:H	21	0.11
(2,383)	1:84:B:ILE:HG12	1:84:B:ILE:HA	11	0.11
(2,371)	1:89:B:ILE:HB	1:88:B:TYR:HA	12	0.11
(2,371)	1:89:B:ILE:HB	1:88:B:TYR:HA	20	0.11
(2,321)	1:29:B:LEU:HB2	1:38:B:ALA:HA	16	0.11
(2,312)	1:86:B:GLY:H	1:85:B:LYS:HB3	1	0.11
(2,310)	1:22:B:LYS:HG3	1:21:B:ASN:H	18	0.11
(2,305)	1:63:B:VAL:H	1:58:B:VAL:H	5	0.11
(2,304)	1:7:B:GLU:H	1:7:B:GLU:HG2	10	0.11
(2,290)	1:64:B:TYR:HB2	1:56:B:ILE:HG12	5	0.11
(2,258)	1:37:B:LYS:HG2	1:37:B:LYS:HD3	21	0.11
(2,258)	1:37:B:LYS:HG2	1:37:B:LYS:HD3	22	0.11
(2,219)	1:93:B:GLN:H	1:92:B:LYS:HB2	15	0.11
(2,219)	1:93:B:GLN:H	1:92:B:LYS:HB2	21	0.11
(2,218)	1:16:B:VAL:HA	1:19:B:LYS:HG3	22	0.11
(2,215)	1:46:B:GLY:HA2	1:47:B:ILE:HG12	16	0.11
(2,189)	1:79:B:ILE:HA	1:82:B:LEU:HB3	20	0.11
(2,174)	1:14:B:ASN:H	1:13:B:ILE:HB	17	0.11
(2,150)	1:37:B:LYS:HG3	1:35:B:GLN:HB3	13	0.11
(2,150)	1:37:B:LYS:HG3	1:35:B:GLN:HB3	25	0.11
(2,115)	1:41:B:SER:H	1:26:B:LYS:HG3	8	0.11
(2,115)	1:41:B:SER:H	1:26:B:LYS:HG3	12	0.11
(2,100)	1:82:B:LEU:H	1:82:B:LEU:HG	5	0.11
(2,98)	1:30:B:SER:HB2	1:30:B:SER:HA	22	0.11
(2,90)	1:78:B:ASP:H	1:77:B:ASN:HB2	15	0.11
(2,90)	1:78:B:ASP:H	1:77:B:ASN:HB2	24	0.11
(2,50)	1:25:B:GLY:H	1:45:B:TYR:HB2	18	0.11
(2,36)	1:25:B:GLY:HA2	1:45:B:TYR:HB3	5	0.11
(1,99)	1:78:B:ASP:H	1:74:B:ASN:O	2	0.11
(1,96)	1:72:B:VAL:O	1:76:B:SER:N	25	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,86)	1:66:B:PHE:H	1:54:B:TRP:O	16	0.11
(1,82)	1:32:B:ASN:O	1:35:B:GLN:N	9	0.11
(1,82)	1:32:B:ASN:O	1:35:B:GLN:N	12	0.11
(1,79)	1:35:B:GLN:H	1:32:B:ASN:O	14	0.11
(1,75)	1:37:B:LYS:O	1:30:B:SER:N	4	0.11
(1,75)	1:37:B:LYS:O	1:30:B:SER:N	6	0.11
(1,75)	1:37:B:LYS:O	1:30:B:SER:N	7	0.11
(1,75)	1:37:B:LYS:O	1:30:B:SER:N	12	0.11
(1,75)	1:37:B:LYS:O	1:30:B:SER:N	18	0.11
(1,75)	1:37:B:LYS:O	1:30:B:SER:N	24	0.11
(1,68)	1:26:B:LYS:H	1:41:B:SER:O	9	0.11
(1,60)	1:15:B:SER:H	1:11:B:ASN:O	8	0.11
(1,52)	1:78:B:ASP:H	1:74:B:ASN:O	2	0.11
(1,49)	1:72:B:VAL:O	1:76:B:SER:N	25	0.11
(1,39)	1:66:B:PHE:H	1:54:B:TRP:O	16	0.11
(1,35)	1:32:B:ASN:O	1:35:B:GLN:N	9	0.11
(1,35)	1:32:B:ASN:O	1:35:B:GLN:N	12	0.11
(1,32)	1:35:B:GLN:H	1:32:B:ASN:O	14	0.11
(1,28)	1:37:B:LYS:O	1:30:B:SER:N	4	0.11
(1,28)	1:37:B:LYS:O	1:30:B:SER:N	6	0.11
(1,28)	1:37:B:LYS:O	1:30:B:SER:N	7	0.11
(1,28)	1:37:B:LYS:O	1:30:B:SER:N	12	0.11
(1,28)	1:37:B:LYS:O	1:30:B:SER:N	18	0.11
(1,28)	1:37:B:LYS:O	1:30:B:SER:N	24	0.11
(1,21)	1:26:B:LYS:H	1:41:B:SER:O	9	0.11
(1,13)	1:15:B:SER:H	1:11:B:ASN:O	8	0.11
(2,2883)	1:71:B:THR:H	1:71:B:THR:HB	10	0.1
(2,2883)	1:71:B:THR:H	1:71:B:THR:HB	20	0.1
(2,2869)	1:32:B:ASN:HB3	1:37:B:LYS:HD3	11	0.1
(2,2869)	1:32:B:ASN:HB3	1:37:B:LYS:HD3	14	0.1
(2,2863)	1:33:B:GLY:HA3	1:86:B:GLY:HA3	18	0.1
(2,2862)	1:82:B:LEU:HG	1:84:B:ILE:HA	3	0.1
(2,2861)	1:85:B:LYS:HA	1:34:B:ASN:H	7	0.1
(2,2853)	1:46:B:GLY:HA3	1:71:B:THR:HB	3	0.1
(2,2851)	1:46:B:GLY:HA3	1:71:B:THR:HA	12	0.1
(2,2820)	1:87:B:MET:HG2	1:87:B:MET:H	16	0.1
(2,2800)	1:48:B:SER:H	1:47:B:ILE:HG12	7	0.1
(2,2792)	1:9:B:GLN:H	1:8:B:GLU:HA	16	0.1
(2,2792)	1:9:B:GLN:H	1:8:B:GLU:HA	22	0.1
(2,2777)	1:12:B:SER:H	1:11:B:ASN:HB3	15	0.1
(2,2775)	1:49:B:TYR:H	1:48:B:SER:HB3	13	0.1
(2,2775)	1:49:B:TYR:H	1:48:B:SER:HB3	17	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2774)	1:61:B:GLU:H	1:61:B:GLU:HB3	13	0.1
(2,2766)	1:27:B:LEU:H	1:27:B:LEU:HG	22	0.1
(2,2764)	1:75:B:ILE:H	1:71:B:THR:H	17	0.1
(2,2761)	1:82:B:LEU:H	1:83:B:ASN:HA	12	0.1
(2,2719)	1:74:B:ASN:HA	1:77:B:ASN:HD22	10	0.1
(2,2719)	1:74:B:ASN:HA	1:77:B:ASN:HD22	17	0.1
(2,2706)	1:21:B:ASN:H	1:20:B:LEU:HB3	8	0.1
(2,2697)	1:36:B:LEU:H	1:35:B:GLN:HB2	6	0.1
(2,2654)	1:38:B:ALA:H	1:29:B:LEU:HB2	8	0.1
(2,2641)	1:85:B:LYS:H	1:84:B:ILE:HA	3	0.1
(2,2608)	1:22:B:LYS:H	1:21:B:ASN:H	6	0.1
(2,2597)	1:49:B:TYR:H	1:48:B:SER:HB2	17	0.1
(2,2597)	1:49:B:TYR:H	1:48:B:SER:HB2	22	0.1
(2,2536)	1:64:B:TYR:H	1:63:B:VAL:H	7	0.1
(2,2530)	1:56:B:ILE:H	1:56:B:ILE:HG12	25	0.1
(2,2433)	1:18:B:ASP:H	1:17:B:ASN:HB3	1	0.1
(2,2430)	1:35:B:GLN:HG3	1:35:B:GLN:HE22	20	0.1
(2,2390)	1:20:B:LEU:H	1:20:B:LEU:HB3	24	0.1
(2,2351)	1:64:B:TYR:H	1:62:B:LYS:HA	3	0.1
(2,2351)	1:64:B:TYR:H	1:62:B:LYS:HA	13	0.1
(2,2325)	1:60:B:GLY:H	1:59:B:ASN:HB3	14	0.1
(2,2318)	1:34:B:ASN:HB3	1:34:B:ASN:HD22	4	0.1
(2,2316)	1:65:B:THR:H	1:65:B:THR:HB	16	0.1
(2,2306)	1:68:B:GLU:HG3	1:68:B:GLU:H	17	0.1
(2,2300)	1:54:B:TRP:H	1:54:B:TRP:HB3	1	0.1
(2,2289)	1:89:B:ILE:H	1:89:B:ILE:HD11	5	0.1
(2,2289)	1:89:B:ILE:H	1:89:B:ILE:HD12	5	0.1
(2,2289)	1:89:B:ILE:H	1:89:B:ILE:HD13	5	0.1
(2,2249)	1:32:B:ASN:H	1:31:B:MET:HB3	19	0.1
(2,2236)	1:31:B:MET:H	1:30:B:SER:HB3	1	0.1
(2,2236)	1:31:B:MET:H	1:30:B:SER:HB3	10	0.1
(2,2227)	1:19:B:LYS:HB3	1:19:B:LYS:H	3	0.1
(2,2227)	1:19:B:LYS:HB3	1:19:B:LYS:H	15	0.1
(2,2213)	1:34:B:ASN:H	1:33:B:GLY:HA3	20	0.1
(2,2206)	1:92:B:LYS:HG2	1:92:B:LYS:H	5	0.1
(2,2206)	1:92:B:LYS:HG2	1:92:B:LYS:H	10	0.1
(2,2114)	1:94:B:ILE:H	1:94:B:ILE:HB	13	0.1
(2,2114)	1:94:B:ILE:H	1:94:B:ILE:HB	20	0.1
(2,2087)	1:67:B:ASN:HB3	1:66:B:PHE:HA	3	0.1
(2,2053)	1:86:B:GLY:H	1:87:B:MET:HB2	10	0.1
(2,2053)	1:86:B:GLY:H	1:87:B:MET:HB2	18	0.1
(2,1989)	1:20:B:LEU:HB3	1:54:B:TRP:HZ2	18	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1989)	1:20:B:LEU:HB3	1:54:B:TRP:HZ2	20	0.1
(2,1975)	1:52:B:LYS:HG2	1:52:B:LYS:HB3	9	0.1
(2,1963)	1:93:B:GLN:HE22	1:92:B:LYS:HB3	13	0.1
(2,1880)	1:80:B:ASN:HD22	1:79:B:ILE:HB	2	0.1
(2,1879)	1:67:B:ASN:HB2	1:67:B:ASN:H	23	0.1
(2,1876)	1:48:B:SER:H	1:46:B:GLY:HA2	18	0.1
(2,1868)	1:9:B:GLN:HB3	1:9:B:GLN:HA	23	0.1
(2,1862)	1:57:B:PHE:H	1:56:B:ILE:HB	2	0.1
(2,1849)	1:41:B:SER:HB2	1:41:B:SER:HA	10	0.1
(2,1842)	1:89:B:ILE:H	1:88:B:TYR:HD1	8	0.1
(2,1842)	1:89:B:ILE:H	1:88:B:TYR:HD2	8	0.1
(2,1816)	1:45:B:TYR:HB2	1:24:B:LYS:HB3	4	0.1
(2,1788)	1:41:B:SER:H	1:40:B:SER:HB3	18	0.1
(2,1739)	1:56:B:ILE:H	1:55:B:GLY:HA3	12	0.1
(2,1712)	1:27:B:LEU:H	1:26:B:LYS:HD3	6	0.1
(2,1651)	1:93:B:GLN:H	1:92:B:LYS:HB2	18	0.1
(2,1635)	1:56:B:ILE:HA	1:54:B:TRP:HE3	15	0.1
(2,1635)	1:56:B:ILE:HA	1:54:B:TRP:HE3	24	0.1
(2,1621)	1:79:B:ILE:HA	1:82:B:LEU:HB3	16	0.1
(2,1614)	1:41:B:SER:H	1:40:B:SER:HB2	13	0.1
(2,1604)	1:17:B:ASN:HD22	1:17:B:ASN:HA	5	0.1
(2,1582)	1:37:B:LYS:HG3	1:35:B:GLN:HB3	3	0.1
(2,1522)	1:78:B:ASP:H	1:77:B:ASN:HB2	8	0.1
(2,1512)	1:27:B:LEU:HB3	1:40:B:SER:HA	20	0.1
(2,1481)	1:85:B:LYS:HB3	1:85:B:LYS:H	16	0.1
(2,1460)	1:66:B:PHE:HZ	1:56:B:ILE:HA	3	0.1
(2,1452)	1:71:B:THR:H	1:71:B:THR:HB	10	0.1
(2,1452)	1:71:B:THR:H	1:71:B:THR:HB	20	0.1
(2,1438)	1:32:B:ASN:HB3	1:37:B:LYS:HD3	11	0.1
(2,1438)	1:32:B:ASN:HB3	1:37:B:LYS:HD3	14	0.1
(2,1432)	1:33:B:GLY:HA3	1:86:B:GLY:HA3	18	0.1
(2,1431)	1:82:B:LEU:HG	1:84:B:ILE:HA	3	0.1
(2,1430)	1:85:B:LYS:HA	1:34:B:ASN:H	7	0.1
(2,1421)	1:46:B:GLY:HA3	1:71:B:THR:HB	3	0.1
(2,1419)	1:46:B:GLY:HA3	1:71:B:THR:HA	12	0.1
(2,1388)	1:87:B:MET:HG2	1:87:B:MET:H	16	0.1
(2,1368)	1:48:B:SER:H	1:47:B:ILE:HG12	7	0.1
(2,1360)	1:9:B:GLN:H	1:8:B:GLU:HA	16	0.1
(2,1360)	1:9:B:GLN:H	1:8:B:GLU:HA	22	0.1
(2,1345)	1:12:B:SER:H	1:11:B:ASN:HB3	15	0.1
(2,1343)	1:49:B:TYR:H	1:48:B:SER:HB3	13	0.1
(2,1343)	1:49:B:TYR:H	1:48:B:SER:HB3	17	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1342)	1:61:B:GLU:H	1:61:B:GLU:HB3	13	0.1
(2,1334)	1:27:B:LEU:H	1:27:B:LEU:HG	22	0.1
(2,1332)	1:75:B:ILE:H	1:71:B:THR:H	17	0.1
(2,1329)	1:82:B:LEU:H	1:83:B:ASN:HA	12	0.1
(2,1287)	1:74:B:ASN:HA	1:77:B:ASN:HD22	10	0.1
(2,1287)	1:74:B:ASN:HA	1:77:B:ASN:HD22	17	0.1
(2,1274)	1:21:B:ASN:H	1:20:B:LEU:HB3	8	0.1
(2,1265)	1:36:B:LEU:H	1:35:B:GLN:HB2	6	0.1
(2,1222)	1:38:B:ALA:H	1:29:B:LEU:HB2	8	0.1
(2,1209)	1:85:B:LYS:H	1:84:B:ILE:HA	3	0.1
(2,1176)	1:22:B:LYS:H	1:21:B:ASN:H	6	0.1
(2,1165)	1:49:B:TYR:H	1:48:B:SER:HB2	17	0.1
(2,1165)	1:49:B:TYR:H	1:48:B:SER:HB2	22	0.1
(2,1104)	1:64:B:TYR:H	1:63:B:VAL:H	7	0.1
(2,1098)	1:56:B:ILE:H	1:56:B:ILE:HG12	25	0.1
(2,1001)	1:18:B:ASP:H	1:17:B:ASN:HB3	1	0.1
(2,998)	1:35:B:GLN:HG3	1:35:B:GLN:HE22	20	0.1
(2,958)	1:20:B:LEU:H	1:20:B:LEU:HB3	24	0.1
(2,919)	1:64:B:TYR:H	1:62:B:LYS:HA	3	0.1
(2,919)	1:64:B:TYR:H	1:62:B:LYS:HA	13	0.1
(2,893)	1:60:B:GLY:H	1:59:B:ASN:HB3	14	0.1
(2,886)	1:34:B:ASN:HB3	1:34:B:ASN:HD22	4	0.1
(2,884)	1:65:B:THR:H	1:65:B:THR:HB	16	0.1
(2,874)	1:68:B:GLU:HG3	1:68:B:GLU:H	17	0.1
(2,868)	1:54:B:TRP:H	1:54:B:TRP:HB3	1	0.1
(2,857)	1:89:B:ILE:H	1:89:B:ILE:HD11	5	0.1
(2,857)	1:89:B:ILE:H	1:89:B:ILE:HD12	5	0.1
(2,857)	1:89:B:ILE:H	1:89:B:ILE:HD13	5	0.1
(2,817)	1:32:B:ASN:H	1:31:B:MET:HB3	19	0.1
(2,804)	1:31:B:MET:H	1:30:B:SER:HB3	1	0.1
(2,804)	1:31:B:MET:H	1:30:B:SER:HB3	10	0.1
(2,795)	1:19:B:LYS:HB3	1:19:B:LYS:H	3	0.1
(2,795)	1:19:B:LYS:HB3	1:19:B:LYS:H	15	0.1
(2,781)	1:34:B:ASN:H	1:33:B:GLY:HA3	20	0.1
(2,774)	1:92:B:LYS:HG2	1:92:B:LYS:H	5	0.1
(2,774)	1:92:B:LYS:HG2	1:92:B:LYS:H	10	0.1
(2,682)	1:94:B:ILE:H	1:94:B:ILE:HB	13	0.1
(2,682)	1:94:B:ILE:H	1:94:B:ILE:HB	20	0.1
(2,655)	1:67:B:ASN:HB3	1:66:B:PHE:HA	3	0.1
(2,621)	1:86:B:GLY:H	1:87:B:MET:HB2	10	0.1
(2,621)	1:86:B:GLY:H	1:87:B:MET:HB2	18	0.1
(2,557)	1:20:B:LEU:HB3	1:54:B:TRP:HZ2	18	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,557)	1:20:B:LEU:HB3	1:54:B:TRP:HZ2	20	0.1
(2,543)	1:52:B:LYS:HG2	1:52:B:LYS:HB3	9	0.1
(2,531)	1:93:B:GLN:HE22	1:92:B:LYS:HB3	13	0.1
(2,448)	1:80:B:ASN:HD22	1:79:B:ILE:HB	2	0.1
(2,447)	1:67:B:ASN:HB2	1:67:B:ASN:H	23	0.1
(2,444)	1:48:B:SER:H	1:46:B:GLY:HA2	18	0.1
(2,436)	1:9:B:GLN:HB3	1:9:B:GLN:HA	23	0.1
(2,430)	1:57:B:PHE:H	1:56:B:ILE:HB	2	0.1
(2,417)	1:41:B:SER:HB2	1:41:B:SER:HA	10	0.1
(2,410)	1:89:B:ILE:H	1:88:B:TYR:HD1	8	0.1
(2,410)	1:89:B:ILE:H	1:88:B:TYR:HD2	8	0.1
(2,384)	1:45:B:TYR:HB2	1:24:B:LYS:HB3	4	0.1
(2,356)	1:41:B:SER:H	1:40:B:SER:HB3	18	0.1
(2,307)	1:56:B:ILE:H	1:55:B:GLY:HA3	12	0.1
(2,280)	1:27:B:LEU:H	1:26:B:LYS:HD3	6	0.1
(2,219)	1:93:B:GLN:H	1:92:B:LYS:HB2	18	0.1
(2,203)	1:56:B:ILE:HA	1:54:B:TRP:HE3	15	0.1
(2,203)	1:56:B:ILE:HA	1:54:B:TRP:HE3	24	0.1
(2,189)	1:79:B:ILE:HA	1:82:B:LEU:HB3	16	0.1
(2,182)	1:41:B:SER:H	1:40:B:SER:HB2	13	0.1
(2,172)	1:17:B:ASN:HD22	1:17:B:ASN:HA	5	0.1
(2,150)	1:37:B:LYS:HG3	1:35:B:GLN:HB3	3	0.1
(2,90)	1:78:B:ASP:H	1:77:B:ASN:HB2	8	0.1
(2,80)	1:27:B:LEU:HB3	1:40:B:SER:HA	20	0.1
(2,49)	1:85:B:LYS:HB3	1:85:B:LYS:H	16	0.1
(2,28)	1:66:B:PHE:HZ	1:56:B:ILE:HA	3	0.1
(1,79)	1:35:B:GLN:H	1:32:B:ASN:O	2	0.1
(1,79)	1:35:B:GLN:H	1:32:B:ASN:O	18	0.1
(1,79)	1:35:B:GLN:H	1:32:B:ASN:O	23	0.1
(1,78)	1:37:B:LYS:H	1:30:B:SER:O	11	0.1
(1,78)	1:37:B:LYS:H	1:30:B:SER:O	21	0.1
(1,60)	1:15:B:SER:H	1:11:B:ASN:O	9	0.1
(1,60)	1:15:B:SER:H	1:11:B:ASN:O	24	0.1
(1,32)	1:35:B:GLN:H	1:32:B:ASN:O	2	0.1
(1,32)	1:35:B:GLN:H	1:32:B:ASN:O	18	0.1
(1,32)	1:35:B:GLN:H	1:32:B:ASN:O	23	0.1
(1,31)	1:37:B:LYS:H	1:30:B:SER:O	11	0.1
(1,31)	1:37:B:LYS:H	1:30:B:SER:O	21	0.1
(1,13)	1:15:B:SER:H	1:11:B:ASN:O	9	0.1
(1,13)	1:15:B:SER:H	1:11:B:ASN:O	24	0.1

10 Dihedral-angle violation analysis

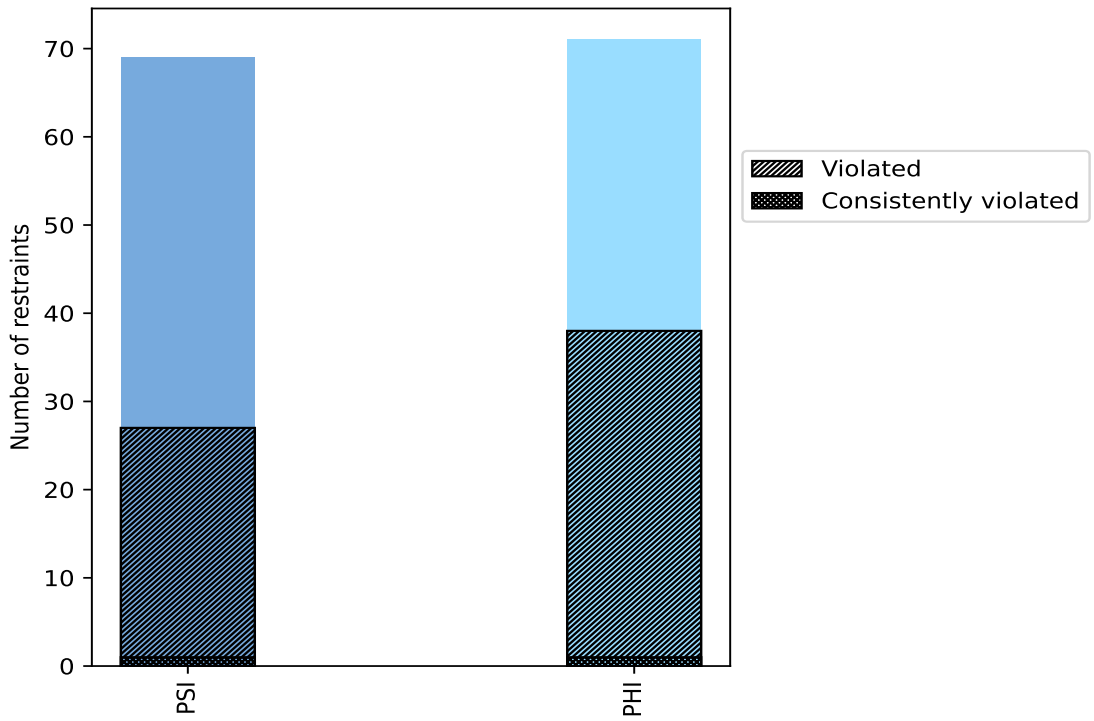
10.1 Summary of dihedral-angle violations

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

Angle type	Count	%[1]	Violated[3]			Consistently Violated[4]		
			Count	%[2]	%[1]	Count	%[2]	%[1]
PSI	69	49.3	27	39.1	19.3	1	1.4	0.7
PHI	71	50.7	38	53.5	27.1	1	1.4	0.7
Total	140	100.0	65	46.4	46.4	2	1.4	1.4

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

10.1.1 Bar chart : Distribution of dihedral-angles and violations



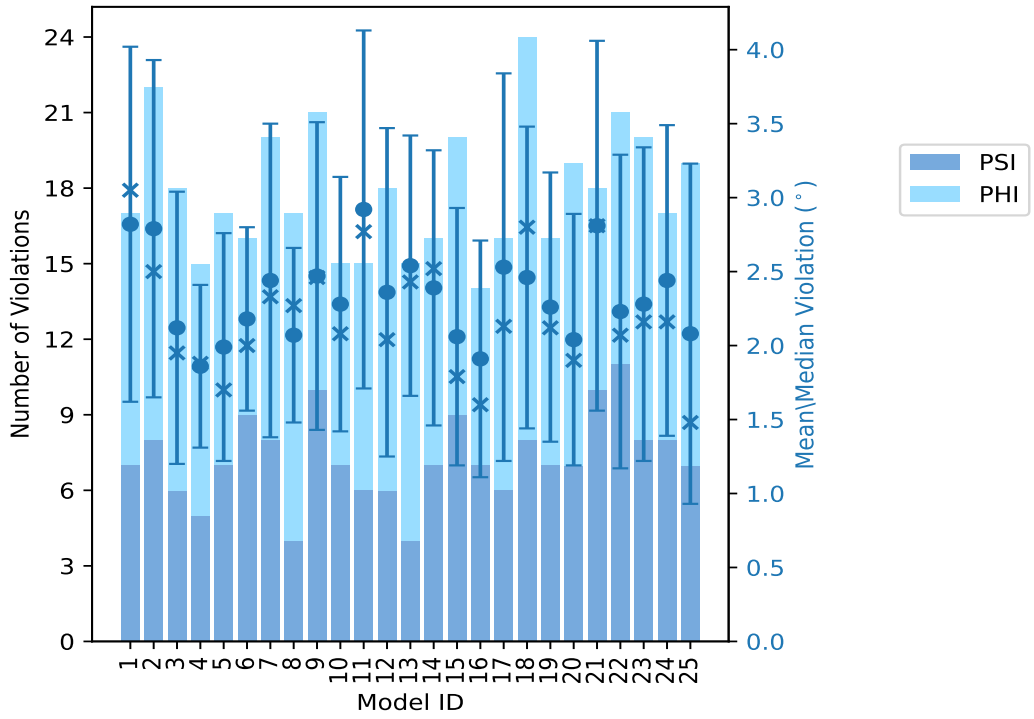
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

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

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

Model ID	Number of violations			Mean (°)	Max (°)	SD (°)	Median (°)
	PSI	PHI	Total				
1	7	10	17	2.82	4.6	1.2	3.05
2	8	14	22	2.79	4.67	1.14	2.5
3	6	12	18	2.12	4.65	0.92	1.95
4	5	10	15	1.86	2.74	0.55	1.88
5	7	10	17	1.99	3.87	0.77	1.7
6	9	7	16	2.18	3.49	0.62	2.0
7	8	12	20	2.44	4.41	1.06	2.33
8	4	13	17	2.07	3.12	0.59	2.27
9	10	11	21	2.47	4.98	1.04	2.46
10	7	8	15	2.28	4.56	0.86	2.08
11	6	9	15	2.92	4.94	1.21	2.77
12	6	12	18	2.36	4.29	1.11	2.04
13	4	11	15	2.54	4.38	0.88	2.43
14	7	9	16	2.39	3.73	0.93	2.52
15	9	11	20	2.06	4.7	0.87	1.79
16	7	7	14	1.91	3.26	0.8	1.6
17	6	10	16	2.53	4.98	1.31	2.13
18	8	16	24	2.46	4.05	1.02	2.8
19	7	9	16	2.26	4.08	0.91	2.12
20	7	12	19	2.04	4.31	0.85	1.9
21	10	8	18	2.81	4.91	1.25	2.81
22	11	10	21	2.23	4.18	1.06	2.07
23	8	12	20	2.28	4.84	1.06	2.16
24	8	9	17	2.44	4.39	1.05	2.16
25	7	12	19	2.08	4.54	1.15	1.48

10.2.1 Bar graph : Dihedral violation statistics for each model



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

10.3 Dihedral-angle violation statistics for the ensemble

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

Number of violated restraints			Fraction of the ensemble	
PSI	PHI	Total	Count[1]	%
6	7	13	1	4.0
4	7	11	2	8.0
3	2	5	3	12.0
0	4	4	4	16.0
1	1	2	5	20.0
3	1	4	6	24.0
0	3	3	7	28.0
1	2	3	8	32.0
0	2	2	9	36.0
1	0	1	10	40.0
2	1	3	11	44.0

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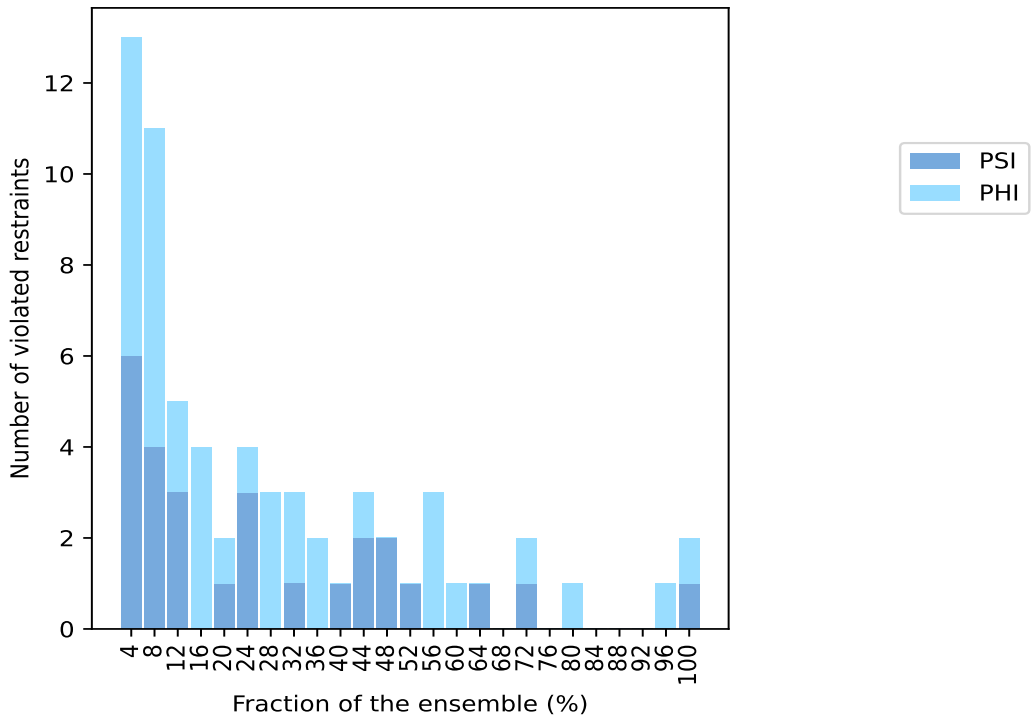
Number of violated restraints			Fraction of the ensemble	
PSI	PHI	Total	Count[1]	%
2	0	2	12	48.0
1	0	1	13	52.0
0	3	3	14	56.0
0	1	1	15	60.0
1	0	1	16	64.0
0	0	0	17	68.0
1	1	2	18	72.0
0	0	0	19	76.0
0	1	1	20	80.0
0	0	0	21	84.0
0	0	0	22	88.0
0	0	0	23	92.0
0	1	1	24	96.0
1	1	2	25	100.0

[1] Number of models with violations

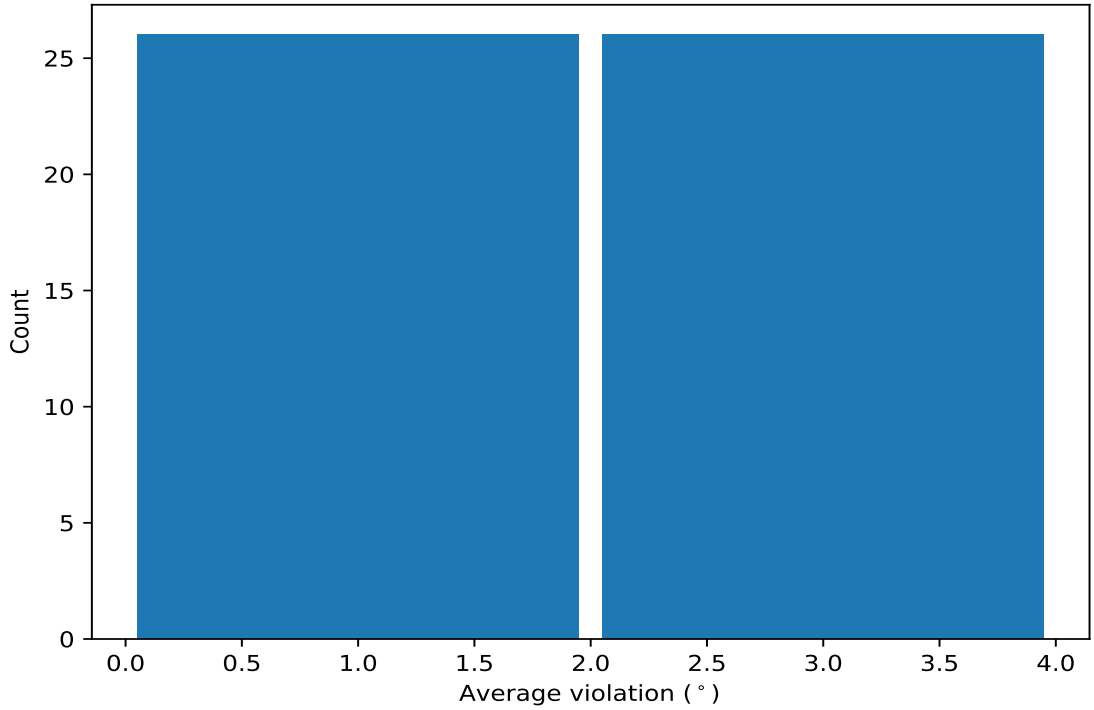
10.3.1 Bar graph : Dihedral-angle Violation statistics for the ensemble



10.4 Most violated dihedral-angle restraints in the ensemble

10.4.1 Histogram : Distribution of mean dihedral-angle violations

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



10.4.2 Table: Most violated dihedral-angle restraints

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

Key	Atom-1	Atom-2	Atom-3	Atom-4	Models[1]	Mean	SD[2]	Median
(1,52)	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	1:39:A:THR:N	25	3.14	0.83	3.14
(1,51)	1:37:A:LYS:C	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	25	3.06	0.85	3.19
(1,110)	1:75:A:ILE:C	1:76:A:SER:N	1:76:A:SER:CA	1:76:A:SER:C	24	2.44	0.95	2.2
(1,104)	1:72:A:VAL:C	1:73:A:GLY:N	1:73:A:GLY:CA	1:73:A:GLY:C	20	2.62	0.5	2.54
(1,134)	1:90:A:GLU:N	1:90:A:GLU:CA	1:90:A:GLU:C	1:91:A:ILE:N	18	2.41	0.82	2.28
(1,43)	1:31:A:MET:C	1:32:A:ASN:N	1:32:A:ASN:CA	1:32:A:ASN:C	18	2.05	0.83	1.86
(1,64)	1:47:A:ILE:N	1:47:A:ILE:CA	1:47:A:ILE:C	1:48:A:SER:N	16	2.11	0.85	2.02
(1,128)	1:86:A:GLY:C	1:87:A:MET:N	1:87:A:MET:CA	1:87:A:MET:C	15	2.23	1.06	2.37
(1,61)	1:44:A:GLY:C	1:45:A:TYR:N	1:45:A:TYR:CA	1:45:A:TYR:C	14	3.88	0.9	4.16
(1,139)	1:92:A:LYS:C	1:93:A:GLN:N	1:93:A:GLN:CA	1:93:A:GLN:C	14	2.4	1.05	2.49
(1,133)	1:89:A:ILE:C	1:90:A:GLU:N	1:90:A:GLU:CA	1:90:A:GLU:C	14	2.37	0.77	2.38
(1,127)	1:85:A:LYS:N	1:85:A:LYS:CA	1:85:A:LYS:C	1:86:A:GLY:N	13	2.99	1.27	3.47
(1,58)	1:43:A:ALA:N	1:43:A:ALA:CA	1:43:A:ALA:C	1:44:A:GLY:N	12	3.59	1.07	3.74

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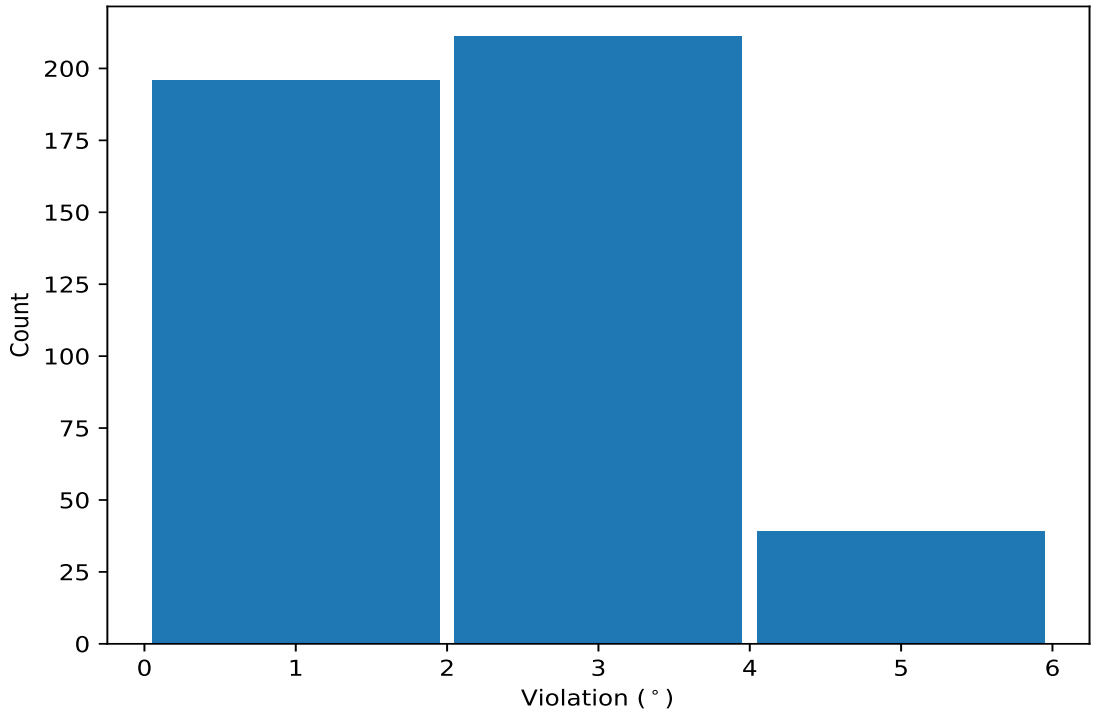
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models[1]	Mean	SD[2]	Median
(1,18)	1:14:A:ASN:N	1:14:A:ASN:CA	1:14:A:ASN:C	1:15:A:SER:N	12	1.92	0.84	1.64
(1,44)	1:32:A:ASN:N	1:32:A:ASN:CA	1:32:A:ASN:C	1:33:A:GLY:N	11	2.83	0.9	2.86
(1,59)	1:43:A:ALA:C	1:44:A:GLY:N	1:44:A:GLY:CA	1:44:A:GLY:C	11	2.37	1.21	1.89
(1,38)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	1:30:A:SER:N	11	1.54	0.3	1.46
(1,62)	1:45:A:TYR:N	1:45:A:TYR:CA	1:45:A:TYR:C	1:46:A:GLY:N	10	2.44	1.13	2.12
(1,49)	1:36:A:LEU:C	1:37:A:LYS:N	1:37:A:LYS:CA	1:37:A:LYS:C	9	1.97	0.46	2.04
(1,67)	1:52:A:LYS:C	1:53:A:ASN:N	1:53:A:ASN:CA	1:53:A:ASN:C	9	1.46	0.54	1.22
(1,86)	1:62:A:LYS:C	1:63:A:VAL:N	1:63:A:VAL:CA	1:63:A:VAL:C	8	2.49	1.13	2.34
(1,60)	1:44:A:GLY:N	1:44:A:GLY:CA	1:44:A:GLY:C	1:45:A:TYR:N	8	2.1	0.72	1.94
(1,129)	1:87:A:MET:C	1:88:A:TYR:N	1:88:A:TYR:CA	1:88:A:TYR:C	8	1.41	0.63	1.18
(1,135)	1:90:A:GLU:C	1:91:A:ILE:N	1:91:A:ILE:CA	1:91:A:ILE:C	7	2.79	0.8	2.97
(1,45)	1:34:A:ASN:C	1:35:A:GLN:N	1:35:A:GLN:CA	1:35:A:GLN:C	7	1.9	0.54	1.98
(1,33)	1:26:A:LYS:C	1:27:A:LEU:N	1:27:A:LEU:CA	1:27:A:LEU:C	7	1.86	0.61	1.61
(1,14)	1:10:A:MET:N	1:10:A:MET:CA	1:10:A:MET:C	1:11:A:ASN:N	6	2.05	0.65	2.13
(1,132)	1:89:A:ILE:N	1:89:A:ILE:CA	1:89:A:ILE:C	1:90:A:GLU:N	6	1.97	0.57	1.97
(1,137)	1:91:A:ILE:C	1:92:A:LYS:N	1:92:A:LYS:CA	1:92:A:LYS:C	6	1.78	0.61	1.65
(1,130)	1:88:A:TYR:N	1:88:A:TYR:CA	1:88:A:TYR:C	1:89:A:ILE:N	6	1.68	0.56	1.54
(1,32)	1:26:A:LYS:N	1:26:A:LYS:CA	1:26:A:LYS:C	1:27:A:LEU:N	5	1.98	0.68	1.88
(1,31)	1:25:A:GLY:C	1:26:A:LYS:N	1:26:A:LYS:CA	1:26:A:LYS:C	5	1.47	0.35	1.25
(1,57)	1:42:A:ASN:C	1:43:A:ALA:N	1:43:A:ALA:CA	1:43:A:ALA:C	4	2.61	0.7	2.92
(1,63)	1:46:A:GLY:C	1:47:A:ILE:N	1:47:A:ILE:CA	1:47:A:ILE:C	4	2.58	1.22	2.2
(1,94)	1:66:A:PHE:C	1:67:A:ASN:N	1:67:A:ASN:CA	1:67:A:ASN:C	4	2.01	0.37	1.99
(1,116)	1:78:A:ASP:C	1:79:A:ILE:N	1:79:A:ILE:CA	1:79:A:ILE:C	4	1.66	0.35	1.52
(1,28)	1:19:A:LYS:N	1:19:A:LYS:CA	1:19:A:LYS:C	1:20:A:LEU:N	3	1.72	0.75	1.31
(1,82)	1:60:A:GLY:C	1:61:A:GLU:N	1:61:A:GLU:CA	1:61:A:GLU:C	3	1.43	0.36	1.38
(1,119)	1:80:A:ASN:N	1:80:A:ASN:CA	1:80:A:ASN:C	1:81:A:LYS:N	3	1.41	0.33	1.32
(1,29)	1:19:A:LYS:C	1:20:A:LEU:N	1:20:A:LEU:CA	1:20:A:LEU:C	3	1.35	0.05	1.36
(1,79)	1:59:A:ASN:N	1:59:A:ASN:CA	1:59:A:ASN:C	1:60:A:GLY:N	3	1.22	0.17	1.26
(1,126)	1:84:A:ILE:C	1:85:A:LYS:N	1:85:A:LYS:CA	1:85:A:LYS:C	2	3.47	0.48	3.47
(1,84)	1:61:A:GLU:C	1:62:A:LYS:N	1:62:A:LYS:CA	1:62:A:LYS:C	2	2.6	1.36	2.6
(1,95)	1:67:A:ASN:N	1:67:A:ASN:CA	1:67:A:ASN:C	1:68:A:GLU:N	2	2.0	0.78	2.0
(1,17)	1:13:A:ILE:C	1:14:A:ASN:N	1:14:A:ASN:CA	1:14:A:ASN:C	2	1.8	0.75	1.8
(1,23)	1:16:A:VAL:C	1:17:A:ASN:N	1:17:A:ASN:CA	1:17:A:ASN:C	2	1.68	0.59	1.68
(1,121)	1:81:A:LYS:N	1:81:A:LYS:CA	1:81:A:LYS:C	1:82:A:LEU:N	2	1.53	0.51	1.53
(1,81)	1:60:A:GLY:N	1:60:A:GLY:CA	1:60:A:GLY:C	1:61:A:GLU:N	2	1.52	0.04	1.52
(1,35)	1:27:A:LEU:C	1:28:A:SER:N	1:28:A:SER:CA	1:28:A:SER:C	2	1.41	0.14	1.41
(1,109)	1:75:A:ILE:N	1:75:A:ILE:CA	1:75:A:ILE:C	1:76:A:SER:N	2	1.2	0.2	1.2
(1,41)	1:30:A:SER:C	1:31:A:MET:N	1:31:A:MET:CA	1:31:A:MET:C	2	1.12	0.02	1.12
(1,120)	1:80:A:ASN:C	1:81:A:LYS:N	1:81:A:LYS:CA	1:81:A:LYS:C	2	1.08	0.02	1.08

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

10.5 All violated dihedral-angle restraints (i)

10.5.1 Histogram : Distribution of violations (i)

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



10.5.2 Table: All violated dihedral-angle restraints

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

Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,127)	1:85:A:LYS:N	1:85:A:LYS:CA	1:85:A:LYS:C	1:86:A:GLY:N	17	4.98
(1,61)	1:44:A:GLY:C	1:45:A:TYR:N	1:45:A:TYR:CA	1:45:A:TYR:C	9	4.98
(1,61)	1:44:A:GLY:C	1:45:A:TYR:N	1:45:A:TYR:CA	1:45:A:TYR:C	11	4.94
(1,52)	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	1:39:A:THR:N	21	4.91
(1,58)	1:43:A:ALA:N	1:43:A:ALA:CA	1:43:A:ALA:C	1:44:A:GLY:N	11	4.9
(1,110)	1:75:A:ILE:C	1:76:A:SER:N	1:76:A:SER:CA	1:76:A:SER:C	23	4.84
(1,59)	1:43:A:ALA:C	1:44:A:GLY:N	1:44:A:GLY:CA	1:44:A:GLY:C	21	4.84
(1,58)	1:43:A:ALA:N	1:43:A:ALA:CA	1:43:A:ALA:C	1:44:A:GLY:N	21	4.82
(1,62)	1:45:A:TYR:N	1:45:A:TYR:CA	1:45:A:TYR:C	1:46:A:GLY:N	15	4.7
(1,127)	1:85:A:LYS:N	1:85:A:LYS:CA	1:85:A:LYS:C	1:86:A:GLY:N	2	4.67
(1,128)	1:86:A:GLY:C	1:87:A:MET:N	1:87:A:MET:CA	1:87:A:MET:C	3	4.65
(1,58)	1:43:A:ALA:N	1:43:A:ALA:CA	1:43:A:ALA:C	1:44:A:GLY:N	17	4.62
(1,110)	1:75:A:ILE:C	1:76:A:SER:N	1:76:A:SER:CA	1:76:A:SER:C	1	4.6
(1,61)	1:44:A:GLY:C	1:45:A:TYR:N	1:45:A:TYR:CA	1:45:A:TYR:C	2	4.58
(1,97)	1:68:A:GLU:N	1:68:A:GLU:CA	1:68:A:GLU:C	1:69:A:LYS:N	10	4.56
(1,64)	1:47:A:ILE:N	1:47:A:ILE:CA	1:47:A:ILE:C	1:48:A:SER:N	11	4.56
(1,139)	1:92:A:LYS:C	1:93:A:GLN:N	1:93:A:GLN:CA	1:93:A:GLN:C	25	4.54
(1,51)	1:37:A:LYS:C	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	1	4.46
(1,63)	1:46:A:GLY:C	1:47:A:ILE:N	1:47:A:ILE:CA	1:47:A:ILE:C	25	4.43
(1,127)	1:85:A:LYS:N	1:85:A:LYS:CA	1:85:A:LYS:C	1:86:A:GLY:N	1	4.42
(1,52)	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	1:39:A:THR:N	7	4.41

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,51)	1:37:A:LYS:C	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	7	4.4
(1,61)	1:44:A:GLY:C	1:45:A:TYR:N	1:45:A:TYR:CA	1:45:A:TYR:C	24	4.39
(1,18)	1:14:A:ASN:N	1:14:A:ASN:CA	1:14:A:ASN:C	1:15:A:SER:N	13	4.38
(1,61)	1:44:A:GLY:C	1:45:A:TYR:N	1:45:A:TYR:CA	1:45:A:TYR:C	17	4.36
(1,59)	1:43:A:ALA:C	1:44:A:GLY:N	1:44:A:GLY:CA	1:44:A:GLY:C	20	4.31
(1,61)	1:44:A:GLY:C	1:45:A:TYR:N	1:45:A:TYR:CA	1:45:A:TYR:C	12	4.29
(1,61)	1:44:A:GLY:C	1:45:A:TYR:N	1:45:A:TYR:CA	1:45:A:TYR:C	23	4.24
(1,52)	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	1:39:A:THR:N	12	4.21
(1,134)	1:90:A:GLU:N	1:90:A:GLU:CA	1:90:A:GLU:C	1:91:A:ILE:N	2	4.18
(1,43)	1:31:A:MET:C	1:32:A:ASN:N	1:32:A:ASN:CA	1:32:A:ASN:C	22	4.18
(1,58)	1:43:A:ALA:N	1:43:A:ALA:CA	1:43:A:ALA:C	1:44:A:GLY:N	2	4.14
(1,51)	1:37:A:LYS:C	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	11	4.14
(1,86)	1:62:A:LYS:C	1:63:A:VAL:N	1:63:A:VAL:CA	1:63:A:VAL:C	2	4.09
(1,61)	1:44:A:GLY:C	1:45:A:TYR:N	1:45:A:TYR:CA	1:45:A:TYR:C	19	4.08
(1,135)	1:90:A:GLU:C	1:91:A:ILE:N	1:91:A:ILE:CA	1:91:A:ILE:C	18	4.05
(1,58)	1:43:A:ALA:N	1:43:A:ALA:CA	1:43:A:ALA:C	1:44:A:GLY:N	12	4.04
(1,44)	1:32:A:ASN:N	1:32:A:ASN:CA	1:32:A:ASN:C	1:33:A:GLY:N	17	4.02
(1,61)	1:44:A:GLY:C	1:45:A:TYR:N	1:45:A:TYR:CA	1:45:A:TYR:C	1	4.01
(1,84)	1:61:A:GLU:C	1:62:A:LYS:N	1:62:A:LYS:CA	1:62:A:LYS:C	18	3.96
(1,126)	1:84:A:ILE:C	1:85:A:LYS:N	1:85:A:LYS:CA	1:85:A:LYS:C	22	3.95
(1,61)	1:44:A:GLY:C	1:45:A:TYR:N	1:45:A:TYR:CA	1:45:A:TYR:C	7	3.95
(1,58)	1:43:A:ALA:N	1:43:A:ALA:CA	1:43:A:ALA:C	1:44:A:GLY:N	9	3.95
(1,128)	1:86:A:GLY:C	1:87:A:MET:N	1:87:A:MET:CA	1:87:A:MET:C	18	3.91
(1,52)	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	1:39:A:THR:N	5	3.87
(1,51)	1:37:A:LYS:C	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	21	3.87
(1,51)	1:37:A:LYS:C	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	12	3.85
(1,86)	1:62:A:LYS:C	1:63:A:VAL:N	1:63:A:VAL:CA	1:63:A:VAL:C	13	3.83
(1,62)	1:45:A:TYR:N	1:45:A:TYR:CA	1:45:A:TYR:C	1:46:A:GLY:N	24	3.8
(1,52)	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	1:39:A:THR:N	1	3.76
(1,52)	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	1:39:A:THR:N	14	3.73
(1,44)	1:32:A:ASN:N	1:32:A:ASN:CA	1:32:A:ASN:C	1:33:A:GLY:N	9	3.73
(1,133)	1:89:A:ILE:C	1:90:A:GLU:N	1:90:A:GLU:CA	1:90:A:GLU:C	2	3.71
(1,52)	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	1:39:A:THR:N	2	3.71
(1,52)	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	1:39:A:THR:N	22	3.71
(1,51)	1:37:A:LYS:C	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	25	3.7
(1,44)	1:32:A:ASN:N	1:32:A:ASN:CA	1:32:A:ASN:C	1:33:A:GLY:N	2	3.69
(1,104)	1:72:A:VAL:C	1:73:A:GLY:N	1:73:A:GLY:CA	1:73:A:GLY:C	13	3.65
(1,51)	1:37:A:LYS:C	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	14	3.65
(1,51)	1:37:A:LYS:C	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	19	3.65
(1,127)	1:85:A:LYS:N	1:85:A:LYS:CA	1:85:A:LYS:C	1:86:A:GLY:N	23	3.63
(1,52)	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	1:39:A:THR:N	20	3.6
(1,51)	1:37:A:LYS:C	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	17	3.59
(1,43)	1:31:A:MET:C	1:32:A:ASN:N	1:32:A:ASN:CA	1:32:A:ASN:C	24	3.58
(1,139)	1:92:A:LYS:C	1:93:A:GLN:N	1:93:A:GLN:CA	1:93:A:GLN:C	21	3.56
(1,134)	1:90:A:GLU:N	1:90:A:GLU:CA	1:90:A:GLU:C	1:91:A:ILE:N	18	3.55
(1,110)	1:75:A:ILE:C	1:76:A:SER:N	1:76:A:SER:CA	1:76:A:SER:C	21	3.55
(1,128)	1:86:A:GLY:C	1:87:A:MET:N	1:87:A:MET:CA	1:87:A:MET:C	19	3.54
(1,52)	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	1:39:A:THR:N	18	3.53
(1,58)	1:43:A:ALA:N	1:43:A:ALA:CA	1:43:A:ALA:C	1:44:A:GLY:N	7	3.52
(1,127)	1:85:A:LYS:N	1:85:A:LYS:CA	1:85:A:LYS:C	1:86:A:GLY:N	14	3.51
(1,51)	1:37:A:LYS:C	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	2	3.51

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,127)	1:85:A:LYS:N	1:85:A:LYS:CA	1:85:A:LYS:C	1:86:A:GLY:N	6	3.49
(1,52)	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	1:39:A:THR:N	25	3.48
(1,127)	1:85:A:LYS:N	1:85:A:LYS:CA	1:85:A:LYS:C	1:86:A:GLY:N	7	3.47
(1,58)	1:43:A:ALA:N	1:43:A:ALA:CA	1:43:A:ALA:C	1:44:A:GLY:N	1	3.47
(1,135)	1:90:A:GLU:C	1:91:A:ILE:N	1:91:A:ILE:CA	1:91:A:ILE:C	14	3.44
(1,110)	1:75:A:ILE:C	1:76:A:SER:N	1:76:A:SER:CA	1:76:A:SER:C	11	3.42
(1,60)	1:44:A:GLY:N	1:44:A:GLY:CA	1:44:A:GLY:C	1:45:A:TYR:N	24	3.42
(1,139)	1:92:A:LYS:C	1:93:A:GLN:N	1:93:A:GLN:CA	1:93:A:GLN:C	15	3.39
(1,104)	1:72:A:VAL:C	1:73:A:GLY:N	1:73:A:GLY:CA	1:73:A:GLY:C	12	3.37
(1,51)	1:37:A:LYS:C	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	18	3.37
(1,61)	1:44:A:GLY:C	1:45:A:TYR:N	1:45:A:TYR:CA	1:45:A:TYR:C	21	3.32
(1,86)	1:62:A:LYS:C	1:63:A:VAL:N	1:63:A:VAL:CA	1:63:A:VAL:C	15	3.31
(1,139)	1:92:A:LYS:C	1:93:A:GLN:N	1:93:A:GLN:CA	1:93:A:GLN:C	7	3.29
(1,44)	1:32:A:ASN:N	1:32:A:ASN:CA	1:32:A:ASN:C	1:33:A:GLY:N	22	3.29
(1,64)	1:47:A:ILE:N	1:47:A:ILE:CA	1:47:A:ILE:C	1:48:A:SER:N	22	3.28
(1,58)	1:43:A:ALA:N	1:43:A:ALA:CA	1:43:A:ALA:C	1:44:A:GLY:N	24	3.27
(1,110)	1:75:A:ILE:C	1:76:A:SER:N	1:76:A:SER:CA	1:76:A:SER:C	16	3.26
(1,134)	1:90:A:GLU:N	1:90:A:GLU:CA	1:90:A:GLU:C	1:91:A:ILE:N	21	3.25
(1,104)	1:72:A:VAL:C	1:73:A:GLY:N	1:73:A:GLY:CA	1:73:A:GLY:C	16	3.25
(1,33)	1:26:A:LYS:C	1:27:A:LEU:N	1:27:A:LEU:CA	1:27:A:LEU:C	24	3.24
(1,134)	1:90:A:GLU:N	1:90:A:GLU:CA	1:90:A:GLU:C	1:91:A:ILE:N	22	3.23
(1,62)	1:45:A:TYR:N	1:45:A:TYR:CA	1:45:A:TYR:C	1:46:A:GLY:N	5	3.23
(1,118)	1:79:A:ILE:C	1:80:A:ASN:N	1:80:A:ASN:CA	1:80:A:ASN:C	1	3.22
(1,51)	1:37:A:LYS:C	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	24	3.21
(1,44)	1:32:A:ASN:N	1:32:A:ASN:CA	1:32:A:ASN:C	1:33:A:GLY:N	3	3.21
(1,110)	1:75:A:ILE:C	1:76:A:SER:N	1:76:A:SER:CA	1:76:A:SER:C	3	3.2
(1,57)	1:42:A:ASN:C	1:43:A:ALA:N	1:43:A:ALA:CA	1:43:A:ALA:C	18	3.2
(1,104)	1:72:A:VAL:C	1:73:A:GLY:N	1:73:A:GLY:CA	1:73:A:GLY:C	3	3.19
(1,51)	1:37:A:LYS:C	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	6	3.19
(1,32)	1:26:A:LYS:N	1:26:A:LYS:CA	1:26:A:LYS:C	1:27:A:LEU:N	1	3.17
(1,135)	1:90:A:GLU:C	1:91:A:ILE:N	1:91:A:ILE:CA	1:91:A:ILE:C	9	3.16
(1,52)	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	1:39:A:THR:N	11	3.16
(1,58)	1:43:A:ALA:N	1:43:A:ALA:CA	1:43:A:ALA:C	1:44:A:GLY:N	19	3.15
(1,52)	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	1:39:A:THR:N	6	3.14
(1,52)	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	1:39:A:THR:N	23	3.14
(1,52)	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	1:39:A:THR:N	9	3.13
(1,134)	1:90:A:GLU:N	1:90:A:GLU:CA	1:90:A:GLU:C	1:91:A:ILE:N	13	3.12
(1,133)	1:89:A:ILE:C	1:90:A:GLU:N	1:90:A:GLU:CA	1:90:A:GLU:C	8	3.12
(1,59)	1:43:A:ALA:C	1:44:A:GLY:N	1:44:A:GLY:CA	1:44:A:GLY:C	25	3.1
(1,104)	1:72:A:VAL:C	1:73:A:GLY:N	1:73:A:GLY:CA	1:73:A:GLY:C	22	3.08
(1,51)	1:37:A:LYS:C	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	9	3.08
(1,133)	1:89:A:ILE:C	1:90:A:GLU:N	1:90:A:GLU:CA	1:90:A:GLU:C	10	3.06
(1,133)	1:89:A:ILE:C	1:90:A:GLU:N	1:90:A:GLU:CA	1:90:A:GLU:C	1	3.05
(1,129)	1:87:A:MET:C	1:88:A:TYR:N	1:88:A:TYR:CA	1:88:A:TYR:C	1	3.04
(1,14)	1:10:A:MET:N	1:10:A:MET:CA	1:10:A:MET:C	1:11:A:ASN:N	9	3.03
(1,86)	1:62:A:LYS:C	1:63:A:VAL:N	1:63:A:VAL:CA	1:63:A:VAL:C	18	3.02
(1,57)	1:42:A:ASN:C	1:43:A:ALA:N	1:43:A:ALA:CA	1:43:A:ALA:C	5	3.02
(1,51)	1:37:A:LYS:C	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	22	3.02
(1,104)	1:72:A:VAL:C	1:73:A:GLY:N	1:73:A:GLY:CA	1:73:A:GLY:C	14	3.01
(1,126)	1:84:A:ILE:C	1:85:A:LYS:N	1:85:A:LYS:CA	1:85:A:LYS:C	20	2.99
(1,60)	1:44:A:GLY:N	1:44:A:GLY:CA	1:44:A:GLY:C	1:45:A:TYR:N	21	2.99

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,139)	1:92:A:LYS:C	1:93:A:GLN:N	1:93:A:GLN:CA	1:93:A:GLN:C	18	2.98
(1,133)	1:89:A:ILE:C	1:90:A:GLU:N	1:90:A:GLU:CA	1:90:A:GLU:C	18	2.98
(1,132)	1:89:A:ILE:N	1:89:A:ILE:CA	1:89:A:ILE:C	1:90:A:GLU:N	9	2.98
(1,135)	1:90:A:GLU:C	1:91:A:ILE:N	1:91:A:ILE:CA	1:91:A:ILE:C	2	2.97
(1,61)	1:44:A:GLY:C	1:45:A:TYR:N	1:45:A:TYR:CA	1:45:A:TYR:C	18	2.95
(1,133)	1:89:A:ILE:C	1:90:A:GLU:N	1:90:A:GLU:CA	1:90:A:GLU:C	12	2.94
(1,137)	1:91:A:ILE:C	1:92:A:LYS:N	1:92:A:LYS:CA	1:92:A:LYS:C	8	2.91
(1,63)	1:46:A:GLY:C	1:47:A:ILE:N	1:47:A:ILE:CA	1:47:A:ILE:C	10	2.91
(1,51)	1:37:A:LYS:C	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	23	2.91
(1,139)	1:92:A:LYS:C	1:93:A:GLN:N	1:93:A:GLN:CA	1:93:A:GLN:C	14	2.9
(1,104)	1:72:A:VAL:C	1:73:A:GLY:N	1:73:A:GLY:CA	1:73:A:GLY:C	9	2.88
(1,62)	1:45:A:TYR:N	1:45:A:TYR:CA	1:45:A:TYR:C	1:46:A:GLY:N	18	2.86
(1,44)	1:32:A:ASN:N	1:32:A:ASN:CA	1:32:A:ASN:C	1:33:A:GLY:N	16	2.86
(1,110)	1:75:A:ILE:C	1:76:A:SER:N	1:76:A:SER:CA	1:76:A:SER:C	13	2.82
(1,57)	1:42:A:ASN:C	1:43:A:ALA:N	1:43:A:ALA:CA	1:43:A:ALA:C	23	2.81
(1,52)	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	1:39:A:THR:N	24	2.8
(1,130)	1:88:A:TYR:N	1:88:A:TYR:CA	1:88:A:TYR:C	1:89:A:ILE:N	11	2.79
(1,95)	1:67:A:ASN:N	1:67:A:ASN:CA	1:67:A:ASN:C	1:68:A:GLU:N	10	2.78
(1,134)	1:90:A:GLU:N	1:90:A:GLU:CA	1:90:A:GLU:C	1:91:A:ILE:N	10	2.77
(1,134)	1:90:A:GLU:N	1:90:A:GLU:CA	1:90:A:GLU:C	1:91:A:ILE:N	11	2.77
(1,28)	1:19:A:LYS:N	1:19:A:LYS:CA	1:19:A:LYS:C	1:20:A:LEU:N	8	2.77
(1,44)	1:32:A:ASN:N	1:32:A:ASN:CA	1:32:A:ASN:C	1:33:A:GLY:N	13	2.76
(1,43)	1:31:A:MET:C	1:32:A:ASN:N	1:32:A:ASN:CA	1:32:A:ASN:C	7	2.75
(1,59)	1:43:A:ALA:C	1:44:A:GLY:N	1:44:A:GLY:CA	1:44:A:GLY:C	4	2.74
(1,110)	1:75:A:ILE:C	1:76:A:SER:N	1:76:A:SER:CA	1:76:A:SER:C	14	2.73
(1,67)	1:52:A:LYS:C	1:53:A:ASN:N	1:53:A:ASN:CA	1:53:A:ASN:C	18	2.73
(1,52)	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	1:39:A:THR:N	16	2.73
(1,51)	1:37:A:LYS:C	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	5	2.73
(1,139)	1:92:A:LYS:C	1:93:A:GLN:N	1:93:A:GLN:CA	1:93:A:GLN:C	4	2.71
(1,104)	1:72:A:VAL:C	1:73:A:GLY:N	1:73:A:GLY:CA	1:73:A:GLY:C	17	2.67
(1,64)	1:47:A:ILE:N	1:47:A:ILE:CA	1:47:A:ILE:C	1:48:A:SER:N	14	2.66
(1,43)	1:31:A:MET:C	1:32:A:ASN:N	1:32:A:ASN:CA	1:32:A:ASN:C	21	2.63
(1,52)	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	1:39:A:THR:N	19	2.61
(1,45)	1:34:A:ASN:C	1:35:A:GLN:N	1:35:A:GLN:CA	1:35:A:GLN:C	20	2.59
(1,44)	1:32:A:ASN:N	1:32:A:ASN:CA	1:32:A:ASN:C	1:33:A:GLY:N	10	2.59
(1,104)	1:72:A:VAL:C	1:73:A:GLY:N	1:73:A:GLY:CA	1:73:A:GLY:C	7	2.56
(1,104)	1:72:A:VAL:C	1:73:A:GLY:N	1:73:A:GLY:CA	1:73:A:GLY:C	2	2.55
(1,94)	1:66:A:PHE:C	1:67:A:ASN:N	1:67:A:ASN:CA	1:67:A:ASN:C	23	2.55
(1,44)	1:32:A:ASN:N	1:32:A:ASN:CA	1:32:A:ASN:C	1:33:A:GLY:N	6	2.54
(1,17)	1:13:A:ILE:C	1:14:A:ASN:N	1:14:A:ASN:CA	1:14:A:ASN:C	9	2.54
(1,104)	1:72:A:VAL:C	1:73:A:GLY:N	1:73:A:GLY:CA	1:73:A:GLY:C	23	2.52
(1,14)	1:10:A:MET:N	1:10:A:MET:CA	1:10:A:MET:C	1:11:A:ASN:N	6	2.52
(1,134)	1:90:A:GLU:N	1:90:A:GLU:CA	1:90:A:GLU:C	1:91:A:ILE:N	7	2.51
(1,110)	1:75:A:ILE:C	1:76:A:SER:N	1:76:A:SER:CA	1:76:A:SER:C	17	2.5
(1,104)	1:72:A:VAL:C	1:73:A:GLY:N	1:73:A:GLY:CA	1:73:A:GLY:C	11	2.49
(1,52)	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	1:39:A:THR:N	13	2.49
(1,52)	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	1:39:A:THR:N	15	2.47
(1,128)	1:86:A:GLY:C	1:87:A:MET:N	1:87:A:MET:CA	1:87:A:MET:C	2	2.46
(1,127)	1:85:A:LYS:N	1:85:A:LYS:CA	1:85:A:LYS:C	1:86:A:GLY:N	9	2.46
(1,128)	1:86:A:GLY:C	1:87:A:MET:N	1:87:A:MET:CA	1:87:A:MET:C	9	2.45
(1,43)	1:31:A:MET:C	1:32:A:ASN:N	1:32:A:ASN:CA	1:32:A:ASN:C	9	2.45

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,133)	1:89:A:ILE:C	1:90:A:GLU:N	1:90:A:GLU:CA	1:90:A:GLU:C	21	2.44
(1,127)	1:85:A:LYS:N	1:85:A:LYS:CA	1:85:A:LYS:C	1:86:A:GLY:N	19	2.44
(1,104)	1:72:A:VAL:C	1:73:A:GLY:N	1:73:A:GLY:CA	1:73:A:GLY:C	20	2.44
(1,51)	1:37:A:LYS:C	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	8	2.44
(1,135)	1:90:A:GLU:C	1:91:A:ILE:N	1:91:A:ILE:CA	1:91:A:ILE:C	4	2.43
(1,128)	1:86:A:GLY:C	1:87:A:MET:N	1:87:A:MET:CA	1:87:A:MET:C	8	2.43
(1,49)	1:36:A:LEU:C	1:37:A:LYS:N	1:37:A:LYS:CA	1:37:A:LYS:C	3	2.43
(1,49)	1:36:A:LEU:C	1:37:A:LYS:N	1:37:A:LYS:CA	1:37:A:LYS:C	13	2.43
(1,49)	1:36:A:LEU:C	1:37:A:LYS:N	1:37:A:LYS:CA	1:37:A:LYS:C	4	2.42
(1,128)	1:86:A:GLY:C	1:87:A:MET:N	1:87:A:MET:CA	1:87:A:MET:C	15	2.41
(1,45)	1:34:A:ASN:C	1:35:A:GLN:N	1:35:A:GLN:CA	1:35:A:GLN:C	25	2.41
(1,52)	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	1:39:A:THR:N	8	2.4
(1,110)	1:75:A:ILE:C	1:76:A:SER:N	1:76:A:SER:CA	1:76:A:SER:C	12	2.38
(1,59)	1:43:A:ALA:C	1:44:A:GLY:N	1:44:A:GLY:CA	1:44:A:GLY:C	14	2.38
(1,43)	1:31:A:MET:C	1:32:A:ASN:N	1:32:A:ASN:CA	1:32:A:ASN:C	11	2.38
(1,128)	1:86:A:GLY:C	1:87:A:MET:N	1:87:A:MET:CA	1:87:A:MET:C	7	2.37
(1,64)	1:47:A:ILE:N	1:47:A:ILE:CA	1:47:A:ILE:C	1:48:A:SER:N	19	2.34
(1,133)	1:89:A:ILE:C	1:90:A:GLU:N	1:90:A:GLU:CA	1:90:A:GLU:C	22	2.32
(1,51)	1:37:A:LYS:C	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	15	2.31
(1,45)	1:34:A:ASN:C	1:35:A:GLN:N	1:35:A:GLN:CA	1:35:A:GLN:C	22	2.31
(1,134)	1:90:A:GLU:N	1:90:A:GLU:CA	1:90:A:GLU:C	1:91:A:ILE:N	20	2.3
(1,64)	1:47:A:ILE:N	1:47:A:ILE:CA	1:47:A:ILE:C	1:48:A:SER:N	1	2.3
(1,133)	1:89:A:ILE:C	1:90:A:GLU:N	1:90:A:GLU:CA	1:90:A:GLU:C	17	2.29
(1,64)	1:47:A:ILE:N	1:47:A:ILE:CA	1:47:A:ILE:C	1:48:A:SER:N	7	2.29
(1,43)	1:31:A:MET:C	1:32:A:ASN:N	1:32:A:ASN:CA	1:32:A:ASN:C	2	2.29
(1,18)	1:14:A:ASN:N	1:14:A:ASN:CA	1:14:A:ASN:C	1:15:A:SER:N	8	2.29
(1,139)	1:92:A:LYS:C	1:93:A:GLN:N	1:93:A:GLN:CA	1:93:A:GLN:C	2	2.27
(1,134)	1:90:A:GLU:N	1:90:A:GLU:CA	1:90:A:GLU:C	1:91:A:ILE:N	8	2.27
(1,43)	1:31:A:MET:C	1:32:A:ASN:N	1:32:A:ASN:CA	1:32:A:ASN:C	5	2.27
(1,23)	1:16:A:VAL:C	1:17:A:ASN:N	1:17:A:ASN:CA	1:17:A:ASN:C	8	2.27
(1,110)	1:75:A:ILE:C	1:76:A:SER:N	1:76:A:SER:CA	1:76:A:SER:C	15	2.26
(1,110)	1:75:A:ILE:C	1:76:A:SER:N	1:76:A:SER:CA	1:76:A:SER:C	18	2.26
(1,104)	1:72:A:VAL:C	1:73:A:GLY:N	1:73:A:GLY:CA	1:73:A:GLY:C	6	2.25
(1,18)	1:14:A:ASN:N	1:14:A:ASN:CA	1:14:A:ASN:C	1:15:A:SER:N	11	2.25
(1,127)	1:85:A:LYS:N	1:85:A:LYS:CA	1:85:A:LYS:C	1:86:A:GLY:N	3	2.24
(1,116)	1:78:A:ASP:C	1:79:A:ILE:N	1:79:A:ILE:CA	1:79:A:ILE:C	23	2.24
(1,60)	1:44:A:GLY:N	1:44:A:GLY:CA	1:44:A:GLY:C	1:45:A:TYR:N	23	2.24
(1,51)	1:37:A:LYS:C	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	16	2.23
(1,64)	1:47:A:ILE:N	1:47:A:ILE:CA	1:47:A:ILE:C	1:48:A:SER:N	10	2.22
(1,51)	1:37:A:LYS:C	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	13	2.22
(1,18)	1:14:A:ASN:N	1:14:A:ASN:CA	1:14:A:ASN:C	1:15:A:SER:N	5	2.22
(1,104)	1:72:A:VAL:C	1:73:A:GLY:N	1:73:A:GLY:CA	1:73:A:GLY:C	19	2.21
(1,64)	1:47:A:ILE:N	1:47:A:ILE:CA	1:47:A:ILE:C	1:48:A:SER:N	12	2.19
(1,14)	1:10:A:MET:N	1:10:A:MET:CA	1:10:A:MET:C	1:11:A:ASN:N	25	2.19
(1,49)	1:36:A:LEU:C	1:37:A:LYS:N	1:37:A:LYS:CA	1:37:A:LYS:C	16	2.18
(1,13)	1:9:A:GLN:C	1:10:A:MET:N	1:10:A:MET:CA	1:10:A:MET:C	3	2.18
(1,132)	1:89:A:ILE:N	1:89:A:ILE:CA	1:89:A:ILE:C	1:90:A:GLU:N	3	2.17
(1,104)	1:72:A:VAL:C	1:73:A:GLY:N	1:73:A:GLY:CA	1:73:A:GLY:C	4	2.17
(1,62)	1:45:A:TYR:N	1:45:A:TYR:CA	1:45:A:TYR:C	1:46:A:GLY:N	4	2.17
(1,104)	1:72:A:VAL:C	1:73:A:GLY:N	1:73:A:GLY:CA	1:73:A:GLY:C	24	2.16
(1,38)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	1:30:A:SER:N	20	2.16

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,110)	1:75:A:ILE:C	1:76:A:SER:N	1:76:A:SER:CA	1:76:A:SER:C	9	2.15
(1,104)	1:72:A:VAL:C	1:73:A:GLY:N	1:73:A:GLY:CA	1:73:A:GLY:C	15	2.13
(1,61)	1:44:A:GLY:C	1:45:A:TYR:N	1:45:A:TYR:CA	1:45:A:TYR:C	15	2.12
(1,58)	1:43:A:ALA:N	1:43:A:ALA:CA	1:43:A:ALA:C	1:44:A:GLY:N	20	2.11
(1,110)	1:75:A:ILE:C	1:76:A:SER:N	1:76:A:SER:CA	1:76:A:SER:C	10	2.08
(1,104)	1:72:A:VAL:C	1:73:A:GLY:N	1:73:A:GLY:CA	1:73:A:GLY:C	8	2.08
(1,62)	1:45:A:TYR:N	1:45:A:TYR:CA	1:45:A:TYR:C	1:46:A:GLY:N	23	2.08
(1,134)	1:90:A:GLU:N	1:90:A:GLU:CA	1:90:A:GLU:C	1:91:A:ILE:N	1	2.07
(1,60)	1:44:A:GLY:N	1:44:A:GLY:CA	1:44:A:GLY:C	1:45:A:TYR:N	14	2.07
(1,52)	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	1:39:A:THR:N	10	2.07
(1,14)	1:10:A:MET:N	1:10:A:MET:CA	1:10:A:MET:C	1:11:A:ASN:N	22	2.07
(1,61)	1:44:A:GLY:C	1:45:A:TYR:N	1:45:A:TYR:CA	1:45:A:TYR:C	13	2.06
(1,43)	1:31:A:MET:C	1:32:A:ASN:N	1:32:A:ASN:CA	1:32:A:ASN:C	18	2.06
(1,31)	1:25:A:GLY:C	1:26:A:LYS:N	1:26:A:LYS:CA	1:26:A:LYS:C	12	2.05
(1,121)	1:81:A:LYS:N	1:81:A:LYS:CA	1:81:A:LYS:C	1:82:A:LEU:N	23	2.04
(1,49)	1:36:A:LEU:C	1:37:A:LYS:N	1:37:A:LYS:CA	1:37:A:LYS:C	6	2.04
(1,32)	1:26:A:LYS:N	1:26:A:LYS:CA	1:26:A:LYS:C	1:27:A:LEU:N	6	2.04
(1,137)	1:91:A:ILE:C	1:92:A:LYS:N	1:92:A:LYS:CA	1:92:A:LYS:C	13	2.03
(1,94)	1:66:A:PHE:C	1:67:A:ASN:N	1:67:A:ASN:CA	1:67:A:ASN:C	2	2.03
(1,67)	1:52:A:LYS:C	1:53:A:ASN:N	1:53:A:ASN:CA	1:53:A:ASN:C	14	2.03
(1,51)	1:37:A:LYS:C	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	10	2.03
(1,134)	1:90:A:GLU:N	1:90:A:GLU:CA	1:90:A:GLU:C	1:91:A:ILE:N	12	2.02
(1,132)	1:89:A:ILE:N	1:89:A:ILE:CA	1:89:A:ILE:C	1:90:A:GLU:N	19	2.02
(1,110)	1:75:A:ILE:C	1:76:A:SER:N	1:76:A:SER:CA	1:76:A:SER:C	8	2.01
(1,38)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	1:30:A:SER:N	7	2.01
(1,49)	1:36:A:LEU:C	1:37:A:LYS:N	1:37:A:LYS:CA	1:37:A:LYS:C	10	1.99
(1,45)	1:34:A:ASN:C	1:35:A:GLN:N	1:35:A:GLN:CA	1:35:A:GLN:C	13	1.98
(1,52)	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	1:39:A:THR:N	3	1.97
(1,52)	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	1:39:A:THR:N	17	1.97
(1,137)	1:91:A:ILE:C	1:92:A:LYS:N	1:92:A:LYS:CA	1:92:A:LYS:C	6	1.95
(1,94)	1:66:A:PHE:C	1:67:A:ASN:N	1:67:A:ASN:CA	1:67:A:ASN:C	11	1.95
(1,51)	1:37:A:LYS:C	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	20	1.95
(1,110)	1:75:A:ILE:C	1:76:A:SER:N	1:76:A:SER:CA	1:76:A:SER:C	2	1.94
(1,134)	1:90:A:GLU:N	1:90:A:GLU:CA	1:90:A:GLU:C	1:91:A:ILE:N	15	1.93
(1,33)	1:26:A:LYS:C	1:27:A:LEU:N	1:27:A:LEU:CA	1:27:A:LEU:C	3	1.93
(1,132)	1:89:A:ILE:N	1:89:A:ILE:CA	1:89:A:ILE:C	1:90:A:GLU:N	4	1.92
(1,62)	1:45:A:TYR:N	1:45:A:TYR:CA	1:45:A:TYR:C	1:46:A:GLY:N	6	1.91
(1,110)	1:75:A:ILE:C	1:76:A:SER:N	1:76:A:SER:CA	1:76:A:SER:C	20	1.9
(1,135)	1:90:A:GLU:C	1:91:A:ILE:N	1:91:A:ILE:CA	1:91:A:ILE:C	20	1.89
(1,82)	1:60:A:GLY:C	1:61:A:GLU:N	1:61:A:GLU:CA	1:61:A:GLU:C	12	1.89
(1,59)	1:43:A:ALA:C	1:44:A:GLY:N	1:44:A:GLY:CA	1:44:A:GLY:C	6	1.89
(1,110)	1:75:A:ILE:C	1:76:A:SER:N	1:76:A:SER:CA	1:76:A:SER:C	19	1.88
(1,33)	1:26:A:LYS:C	1:27:A:LEU:N	1:27:A:LEU:CA	1:27:A:LEU:C	4	1.88
(1,32)	1:26:A:LYS:N	1:26:A:LYS:CA	1:26:A:LYS:C	1:27:A:LEU:N	23	1.88
(1,134)	1:90:A:GLU:N	1:90:A:GLU:CA	1:90:A:GLU:C	1:91:A:ILE:N	5	1.86
(1,130)	1:88:A:TYR:N	1:88:A:TYR:CA	1:88:A:TYR:C	1:89:A:ILE:N	7	1.86
(1,119)	1:80:A:ASN:N	1:80:A:ASN:CA	1:80:A:ASN:C	1:81:A:LYS:N	21	1.85
(1,64)	1:47:A:ILE:N	1:47:A:ILE:CA	1:47:A:ILE:C	1:48:A:SER:N	24	1.85
(1,49)	1:36:A:LEU:C	1:37:A:LYS:N	1:37:A:LYS:CA	1:37:A:LYS:C	2	1.85
(1,66)	1:52:A:LYS:N	1:52:A:LYS:CA	1:52:A:LYS:C	1:53:A:ASN:N	24	1.83
(1,133)	1:89:A:ILE:C	1:90:A:GLU:N	1:90:A:GLU:CA	1:90:A:GLU:C	7	1.81

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,51)	1:37:A:LYS:C	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	4	1.81
(1,18)	1:14:A:ASN:N	1:14:A:ASN:CA	1:14:A:ASN:C	1:15:A:SER:N	9	1.81
(1,60)	1:44:A:GLY:N	1:44:A:GLY:CA	1:44:A:GLY:C	1:45:A:TYR:N	18	1.8
(1,110)	1:75:A:ILE:C	1:76:A:SER:N	1:76:A:SER:CA	1:76:A:SER:C	6	1.78
(1,60)	1:44:A:GLY:N	1:44:A:GLY:CA	1:44:A:GLY:C	1:45:A:TYR:N	3	1.77
(1,32)	1:26:A:LYS:N	1:26:A:LYS:CA	1:26:A:LYS:C	1:27:A:LEU:N	12	1.76
(1,38)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	1:30:A:SER:N	5	1.74
(1,64)	1:47:A:ILE:N	1:47:A:ILE:CA	1:47:A:ILE:C	1:48:A:SER:N	6	1.73
(1,104)	1:72:A:VAL:C	1:73:A:GLY:N	1:73:A:GLY:CA	1:73:A:GLY:C	18	1.72
(1,134)	1:90:A:GLU:N	1:90:A:GLU:CA	1:90:A:GLU:C	1:91:A:ILE:N	14	1.7
(1,31)	1:25:A:GLY:C	1:26:A:LYS:N	1:26:A:LYS:CA	1:26:A:LYS:C	5	1.7
(1,128)	1:86:A:GLY:C	1:87:A:MET:N	1:87:A:MET:CA	1:87:A:MET:C	6	1.69
(1,64)	1:47:A:ILE:N	1:47:A:ILE:CA	1:47:A:ILE:C	1:48:A:SER:N	17	1.69
(1,86)	1:62:A:LYS:C	1:63:A:VAL:N	1:63:A:VAL:CA	1:63:A:VAL:C	8	1.67
(1,130)	1:88:A:TYR:N	1:88:A:TYR:CA	1:88:A:TYR:C	1:89:A:ILE:N	16	1.66
(1,86)	1:62:A:LYS:C	1:63:A:VAL:N	1:63:A:VAL:CA	1:63:A:VAL:C	12	1.66
(1,45)	1:34:A:ASN:C	1:35:A:GLN:N	1:35:A:GLN:CA	1:35:A:GLN:C	5	1.66
(1,43)	1:31:A:MET:C	1:32:A:ASN:N	1:32:A:ASN:CA	1:32:A:ASN:C	3	1.66
(1,18)	1:14:A:ASN:N	1:14:A:ASN:CA	1:14:A:ASN:C	1:15:A:SER:N	15	1.65
(1,43)	1:31:A:MET:C	1:32:A:ASN:N	1:32:A:ASN:CA	1:32:A:ASN:C	19	1.64
(1,18)	1:14:A:ASN:N	1:14:A:ASN:CA	1:14:A:ASN:C	1:15:A:SER:N	7	1.63
(1,135)	1:90:A:GLU:C	1:91:A:ILE:N	1:91:A:ILE:CA	1:91:A:ILE:C	24	1.62
(1,110)	1:75:A:ILE:C	1:76:A:SER:N	1:76:A:SER:CA	1:76:A:SER:C	22	1.62
(1,59)	1:43:A:ALA:C	1:44:A:GLY:N	1:44:A:GLY:CA	1:44:A:GLY:C	13	1.62
(1,33)	1:26:A:LYS:C	1:27:A:LEU:N	1:27:A:LEU:CA	1:27:A:LEU:C	10	1.61
(1,33)	1:26:A:LYS:C	1:27:A:LEU:N	1:27:A:LEU:CA	1:27:A:LEU:C	25	1.61
(1,18)	1:14:A:ASN:N	1:14:A:ASN:CA	1:14:A:ASN:C	1:15:A:SER:N	17	1.61
(1,38)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	1:30:A:SER:N	24	1.6
(1,18)	1:14:A:ASN:N	1:14:A:ASN:CA	1:14:A:ASN:C	1:15:A:SER:N	21	1.6
(1,132)	1:89:A:ILE:N	1:89:A:ILE:CA	1:89:A:ILE:C	1:90:A:GLU:N	15	1.59
(1,116)	1:78:A:ASP:C	1:79:A:ILE:N	1:79:A:ILE:CA	1:79:A:ILE:C	15	1.59
(1,139)	1:92:A:LYS:C	1:93:A:GLN:N	1:93:A:GLN:CA	1:93:A:GLN:C	20	1.58
(1,33)	1:26:A:LYS:C	1:27:A:LEU:N	1:27:A:LEU:CA	1:27:A:LEU:C	19	1.58
(1,81)	1:60:A:GLY:N	1:60:A:GLY:CA	1:60:A:GLY:C	1:61:A:GLU:N	6	1.55
(1,35)	1:27:A:LEU:C	1:28:A:SER:N	1:28:A:SER:CA	1:28:A:SER:C	5	1.55
(1,64)	1:47:A:ILE:N	1:47:A:ILE:CA	1:47:A:ILE:C	1:48:A:SER:N	16	1.54
(1,133)	1:89:A:ILE:C	1:90:A:GLU:N	1:90:A:GLU:CA	1:90:A:GLU:C	23	1.53
(1,94)	1:66:A:PHE:C	1:67:A:ASN:N	1:67:A:ASN:CA	1:67:A:ASN:C	8	1.52
(1,67)	1:52:A:LYS:C	1:53:A:ASN:N	1:53:A:ASN:CA	1:53:A:ASN:C	17	1.52
(1,139)	1:92:A:LYS:C	1:93:A:GLN:N	1:93:A:GLN:CA	1:93:A:GLN:C	13	1.5
(1,64)	1:47:A:ILE:N	1:47:A:ILE:CA	1:47:A:ILE:C	1:48:A:SER:N	2	1.5
(1,133)	1:89:A:ILE:C	1:90:A:GLU:N	1:90:A:GLU:CA	1:90:A:GLU:C	3	1.49
(1,63)	1:46:A:GLY:C	1:47:A:ILE:N	1:47:A:ILE:CA	1:47:A:ILE:C	5	1.49
(1,63)	1:46:A:GLY:C	1:47:A:ILE:N	1:47:A:ILE:CA	1:47:A:ILE:C	20	1.49
(1,128)	1:86:A:GLY:C	1:87:A:MET:N	1:87:A:MET:CA	1:87:A:MET:C	4	1.48
(1,99)	1:69:A:LYS:N	1:69:A:LYS:CA	1:69:A:LYS:C	1:70:A:SER:N	25	1.48
(1,81)	1:60:A:GLY:N	1:60:A:GLY:CA	1:60:A:GLY:C	1:61:A:GLU:N	25	1.48
(1,62)	1:45:A:TYR:N	1:45:A:TYR:CA	1:45:A:TYR:C	1:46:A:GLY:N	21	1.48
(1,38)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	1:30:A:SER:N	25	1.48
(1,116)	1:78:A:ASP:C	1:79:A:ILE:N	1:79:A:ILE:CA	1:79:A:ILE:C	2	1.46
(1,110)	1:75:A:ILE:C	1:76:A:SER:N	1:76:A:SER:CA	1:76:A:SER:C	25	1.46

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,38)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	1:30:A:SER:N	15	1.46
(1,43)	1:31:A:MET:C	1:32:A:ASN:N	1:32:A:ASN:CA	1:32:A:ASN:C	1	1.45
(1,43)	1:31:A:MET:C	1:32:A:ASN:N	1:32:A:ASN:CA	1:32:A:ASN:C	20	1.44
(1,38)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	1:30:A:SER:N	2	1.44
(1,130)	1:88:A:TYR:N	1:88:A:TYR:CA	1:88:A:TYR:C	1:89:A:ILE:N	21	1.43
(1,64)	1:47:A:ILE:N	1:47:A:ILE:CA	1:47:A:ILE:C	1:48:A:SER:N	9	1.43
(1,134)	1:90:A:GLU:N	1:90:A:GLU:CA	1:90:A:GLU:C	1:91:A:ILE:N	16	1.42
(1,127)	1:85:A:LYS:N	1:85:A:LYS:CA	1:85:A:LYS:C	1:86:A:GLY:N	15	1.42
(1,98)	1:68:A:GLU:C	1:69:A:LYS:N	1:69:A:LYS:CA	1:69:A:LYS:C	10	1.42
(1,57)	1:42:A:ASN:C	1:43:A:ALA:N	1:43:A:ALA:CA	1:43:A:ALA:C	15	1.42
(1,52)	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	1:39:A:THR:N	4	1.42
(1,43)	1:31:A:MET:C	1:32:A:ASN:N	1:32:A:ASN:CA	1:32:A:ASN:C	25	1.41
(1,109)	1:75:A:ILE:N	1:75:A:ILE:CA	1:75:A:ILE:C	1:76:A:SER:N	22	1.4
(1,79)	1:59:A:ASN:N	1:59:A:ASN:CA	1:59:A:ASN:C	1:60:A:GLY:N	9	1.4
(1,59)	1:43:A:ALA:C	1:44:A:GLY:N	1:44:A:GLY:CA	1:44:A:GLY:C	3	1.4
(1,29)	1:19:A:LYS:C	1:20:A:LEU:N	1:20:A:LEU:CA	1:20:A:LEU:C	19	1.4
(1,139)	1:92:A:LYS:C	1:93:A:GLN:N	1:93:A:GLN:CA	1:93:A:GLN:C	22	1.39
(1,129)	1:87:A:MET:C	1:88:A:TYR:N	1:88:A:TYR:CA	1:88:A:TYR:C	11	1.39
(1,128)	1:86:A:GLY:C	1:87:A:MET:N	1:87:A:MET:CA	1:87:A:MET:C	25	1.38
(1,82)	1:60:A:GLY:C	1:61:A:GLU:N	1:61:A:GLU:CA	1:61:A:GLU:C	5	1.38
(1,43)	1:31:A:MET:C	1:32:A:ASN:N	1:32:A:ASN:CA	1:32:A:ASN:C	8	1.38
(1,110)	1:75:A:ILE:C	1:76:A:SER:N	1:76:A:SER:CA	1:76:A:SER:C	5	1.37
(1,60)	1:44:A:GLY:N	1:44:A:GLY:CA	1:44:A:GLY:C	1:45:A:TYR:N	22	1.37
(1,45)	1:34:A:ASN:C	1:35:A:GLN:N	1:35:A:GLN:CA	1:35:A:GLN:C	21	1.36
(1,44)	1:32:A:ASN:N	1:32:A:ASN:CA	1:32:A:ASN:C	1:33:A:GLY:N	21	1.36
(1,29)	1:19:A:LYS:C	1:20:A:LEU:N	1:20:A:LEU:CA	1:20:A:LEU:C	7	1.36
(1,18)	1:14:A:ASN:N	1:14:A:ASN:CA	1:14:A:ASN:C	1:15:A:SER:N	2	1.36
(1,137)	1:91:A:ILE:C	1:92:A:LYS:N	1:92:A:LYS:CA	1:92:A:LYS:C	17	1.35
(1,129)	1:87:A:MET:C	1:88:A:TYR:N	1:88:A:TYR:CA	1:88:A:TYR:C	23	1.35
(1,116)	1:78:A:ASP:C	1:79:A:ILE:N	1:79:A:ILE:CA	1:79:A:ILE:C	12	1.34
(1,134)	1:90:A:GLU:N	1:90:A:GLU:CA	1:90:A:GLU:C	1:91:A:ILE:N	19	1.33
(1,86)	1:62:A:LYS:C	1:63:A:VAL:N	1:63:A:VAL:CA	1:63:A:VAL:C	11	1.33
(1,67)	1:52:A:LYS:C	1:53:A:ASN:N	1:53:A:ASN:CA	1:53:A:ASN:C	8	1.33
(1,119)	1:80:A:ASN:N	1:80:A:ASN:CA	1:80:A:ASN:C	1:81:A:LYS:N	15	1.32
(1,59)	1:43:A:ALA:C	1:44:A:GLY:N	1:44:A:GLY:CA	1:44:A:GLY:C	11	1.32
(1,38)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	1:30:A:SER:N	21	1.32
(1,139)	1:92:A:LYS:C	1:93:A:GLN:N	1:93:A:GLN:CA	1:93:A:GLN:C	1	1.31
(1,28)	1:19:A:LYS:N	1:19:A:LYS:CA	1:19:A:LYS:C	1:20:A:LEU:N	20	1.31
(1,8)	1:6:A:LEU:N	1:6:A:LEU:CA	1:6:A:LEU:C	1:7:A:GLU:N	4	1.31
(1,38)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	1:30:A:SER:N	18	1.29
(1,137)	1:91:A:ILE:C	1:92:A:LYS:N	1:92:A:LYS:CA	1:92:A:LYS:C	3	1.28
(1,133)	1:89:A:ILE:C	1:90:A:GLU:N	1:90:A:GLU:CA	1:90:A:GLU:C	20	1.28
(1,42)	1:31:A:MET:N	1:31:A:MET:CA	1:31:A:MET:C	1:32:A:ASN:N	22	1.28
(1,29)	1:19:A:LYS:C	1:20:A:LEU:N	1:20:A:LEU:CA	1:20:A:LEU:C	5	1.28
(1,35)	1:27:A:LEU:C	1:28:A:SER:N	1:28:A:SER:CA	1:28:A:SER:C	24	1.27
(1,79)	1:59:A:ASN:N	1:59:A:ASN:CA	1:59:A:ASN:C	1:60:A:GLY:N	5	1.26
(1,129)	1:87:A:MET:C	1:88:A:TYR:N	1:88:A:TYR:CA	1:88:A:TYR:C	15	1.25
(1,128)	1:86:A:GLY:C	1:87:A:MET:N	1:87:A:MET:CA	1:87:A:MET:C	24	1.25
(1,110)	1:75:A:ILE:C	1:76:A:SER:N	1:76:A:SER:CA	1:76:A:SER:C	4	1.25
(1,59)	1:43:A:ALA:C	1:44:A:GLY:N	1:44:A:GLY:CA	1:44:A:GLY:C	8	1.25
(1,31)	1:25:A:GLY:C	1:26:A:LYS:N	1:26:A:LYS:CA	1:26:A:LYS:C	20	1.25

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,14)	1:10:A:MET:N	1:10:A:MET:CA	1:10:A:MET:C	1:11:A:ASN:N	23	1.25
(1,43)	1:31:A:MET:C	1:32:A:ASN:N	1:32:A:ASN:CA	1:32:A:ASN:C	12	1.24
(1,139)	1:92:A:LYS:C	1:93:A:GLN:N	1:93:A:GLN:CA	1:93:A:GLN:C	19	1.23
(1,84)	1:61:A:GLU:C	1:62:A:LYS:N	1:62:A:LYS:CA	1:62:A:LYS:C	1	1.23
(1,133)	1:89:A:ILE:C	1:90:A:GLU:N	1:90:A:GLU:CA	1:90:A:GLU:C	16	1.22
(1,110)	1:75:A:ILE:C	1:76:A:SER:N	1:76:A:SER:CA	1:76:A:SER:C	7	1.22
(1,67)	1:52:A:LYS:C	1:53:A:ASN:N	1:53:A:ASN:CA	1:53:A:ASN:C	25	1.22
(1,49)	1:36:A:LEU:C	1:37:A:LYS:N	1:37:A:LYS:CA	1:37:A:LYS:C	15	1.22
(1,14)	1:10:A:MET:N	1:10:A:MET:CA	1:10:A:MET:C	1:11:A:ASN:N	15	1.22
(1,95)	1:67:A:ASN:N	1:67:A:ASN:CA	1:67:A:ASN:C	1:68:A:GLU:N	18	1.21
(1,38)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	1:30:A:SER:N	14	1.21
(1,18)	1:14:A:ASN:N	1:14:A:ASN:CA	1:14:A:ASN:C	1:15:A:SER:N	1	1.2
(1,128)	1:86:A:GLY:C	1:87:A:MET:N	1:87:A:MET:CA	1:87:A:MET:C	17	1.19
(1,59)	1:43:A:ALA:C	1:44:A:GLY:N	1:44:A:GLY:CA	1:44:A:GLY:C	22	1.19
(1,38)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	1:30:A:SER:N	4	1.19
(1,31)	1:25:A:GLY:C	1:26:A:LYS:N	1:26:A:LYS:CA	1:26:A:LYS:C	7	1.18
(1,31)	1:25:A:GLY:C	1:26:A:LYS:N	1:26:A:LYS:CA	1:26:A:LYS:C	18	1.18
(1,130)	1:88:A:TYR:N	1:88:A:TYR:CA	1:88:A:TYR:C	1:89:A:ILE:N	5	1.17
(1,130)	1:88:A:TYR:N	1:88:A:TYR:CA	1:88:A:TYR:C	1:89:A:ILE:N	24	1.16
(1,60)	1:44:A:GLY:N	1:44:A:GLY:CA	1:44:A:GLY:C	1:45:A:TYR:N	6	1.16
(1,137)	1:91:A:ILE:C	1:92:A:LYS:N	1:92:A:LYS:CA	1:92:A:LYS:C	12	1.15
(1,51)	1:37:A:LYS:C	1:38:A:ALA:N	1:38:A:ALA:CA	1:38:A:ALA:C	3	1.15
(1,33)	1:26:A:LYS:C	1:27:A:LEU:N	1:27:A:LEU:CA	1:27:A:LEU:C	7	1.15
(1,49)	1:36:A:LEU:C	1:37:A:LYS:N	1:37:A:LYS:CA	1:37:A:LYS:C	1	1.14
(1,41)	1:30:A:SER:C	1:31:A:MET:N	1:31:A:MET:CA	1:31:A:MET:C	13	1.14
(1,64)	1:47:A:ILE:N	1:47:A:ILE:CA	1:47:A:ILE:C	1:48:A:SER:N	20	1.13
(1,132)	1:89:A:ILE:N	1:89:A:ILE:CA	1:89:A:ILE:C	1:90:A:GLU:N	16	1.12
(1,67)	1:52:A:LYS:C	1:53:A:ASN:N	1:53:A:ASN:CA	1:53:A:ASN:C	16	1.12
(1,129)	1:87:A:MET:C	1:88:A:TYR:N	1:88:A:TYR:CA	1:88:A:TYR:C	14	1.11
(1,128)	1:86:A:GLY:C	1:87:A:MET:N	1:87:A:MET:CA	1:87:A:MET:C	23	1.11
(1,127)	1:85:A:LYS:N	1:85:A:LYS:CA	1:85:A:LYS:C	1:86:A:GLY:N	18	1.11
(1,62)	1:45:A:TYR:N	1:45:A:TYR:CA	1:45:A:TYR:C	1:46:A:GLY:N	14	1.11
(1,19)	1:14:A:ASN:C	1:15:A:SER:N	1:15:A:SER:CA	1:15:A:SER:C	3	1.11
(1,120)	1:80:A:ASN:C	1:81:A:LYS:N	1:81:A:LYS:CA	1:81:A:LYS:C	23	1.1
(1,58)	1:43:A:ALA:N	1:43:A:ALA:CA	1:43:A:ALA:C	1:44:A:GLY:N	10	1.1
(1,41)	1:30:A:SER:C	1:31:A:MET:N	1:31:A:MET:CA	1:31:A:MET:C	18	1.1
(1,67)	1:52:A:LYS:C	1:53:A:ASN:N	1:53:A:ASN:CA	1:53:A:ASN:C	12	1.09
(1,62)	1:45:A:TYR:N	1:45:A:TYR:CA	1:45:A:TYR:C	1:46:A:GLY:N	22	1.09
(1,43)	1:31:A:MET:C	1:32:A:ASN:N	1:32:A:ASN:CA	1:32:A:ASN:C	23	1.09
(1,28)	1:19:A:LYS:N	1:19:A:LYS:CA	1:19:A:LYS:C	1:20:A:LEU:N	22	1.09
(1,23)	1:16:A:VAL:C	1:17:A:ASN:N	1:17:A:ASN:CA	1:17:A:ASN:C	9	1.09
(1,129)	1:87:A:MET:C	1:88:A:TYR:N	1:88:A:TYR:CA	1:88:A:TYR:C	18	1.08
(1,67)	1:52:A:LYS:C	1:53:A:ASN:N	1:53:A:ASN:CA	1:53:A:ASN:C	9	1.08
(1,127)	1:85:A:LYS:N	1:85:A:LYS:CA	1:85:A:LYS:C	1:86:A:GLY:N	16	1.07
(1,120)	1:80:A:ASN:C	1:81:A:LYS:N	1:81:A:LYS:CA	1:81:A:LYS:C	9	1.07
(1,90)	1:64:A:TYR:C	1:65:A:THR:N	1:65:A:THR:CA	1:65:A:THR:C	14	1.07
(1,43)	1:31:A:MET:C	1:32:A:ASN:N	1:32:A:ASN:CA	1:32:A:ASN:C	17	1.07
(1,129)	1:87:A:MET:C	1:88:A:TYR:N	1:88:A:TYR:CA	1:88:A:TYR:C	17	1.06
(1,128)	1:86:A:GLY:C	1:87:A:MET:N	1:87:A:MET:CA	1:87:A:MET:C	22	1.06
(1,119)	1:80:A:ASN:N	1:80:A:ASN:CA	1:80:A:ASN:C	1:81:A:LYS:N	3	1.06
(1,32)	1:26:A:LYS:N	1:26:A:LYS:CA	1:26:A:LYS:C	1:27:A:LEU:N	18	1.06

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,17)	1:13:A:ILE:C	1:14:A:ASN:N	1:14:A:ASN:CA	1:14:A:ASN:C	8	1.05
(1,44)	1:32:A:ASN:N	1:32:A:ASN:CA	1:32:A:ASN:C	1:33:A:GLY:N	25	1.04
(1,65)	1:51:A:ASP:C	1:52:A:LYS:N	1:52:A:LYS:CA	1:52:A:LYS:C	2	1.03
(1,18)	1:14:A:ASN:N	1:14:A:ASN:CA	1:14:A:ASN:C	1:15:A:SER:N	12	1.03
(1,134)	1:90:A:GLU:N	1:90:A:GLU:CA	1:90:A:GLU:C	1:91:A:ILE:N	25	1.02
(1,129)	1:87:A:MET:C	1:88:A:TYR:N	1:88:A:TYR:CA	1:88:A:TYR:C	25	1.02
(1,121)	1:81:A:LYS:N	1:81:A:LYS:CA	1:81:A:LYS:C	1:82:A:LEU:N	9	1.02
(1,100)	1:69:A:LYS:C	1:70:A:SER:N	1:70:A:SER:CA	1:70:A:SER:C	25	1.02
(1,86)	1:62:A:LYS:C	1:63:A:VAL:N	1:63:A:VAL:CA	1:63:A:VAL:C	16	1.02
(1,82)	1:60:A:GLY:C	1:61:A:GLU:N	1:61:A:GLU:CA	1:61:A:GLU:C	10	1.02
(1,64)	1:47:A:ILE:N	1:47:A:ILE:CA	1:47:A:ILE:C	1:48:A:SER:N	23	1.02
(1,68)	1:53:A:ASN:N	1:53:A:ASN:CA	1:53:A:ASN:C	1:54:A:TRP:N	19	1.01
(1,45)	1:34:A:ASN:C	1:35:A:GLN:N	1:35:A:GLN:CA	1:35:A:GLN:C	7	1.01
(1,139)	1:92:A:LYS:C	1:93:A:GLN:N	1:93:A:GLN:CA	1:93:A:GLN:C	24	1.0
(1,109)	1:75:A:ILE:N	1:75:A:ILE:CA	1:75:A:ILE:C	1:76:A:SER:N	20	1.0
(1,79)	1:59:A:ASN:N	1:59:A:ASN:CA	1:59:A:ASN:C	1:60:A:GLY:N	22	1.0
(1,67)	1:52:A:LYS:C	1:53:A:ASN:N	1:53:A:ASN:CA	1:53:A:ASN:C	4	1.0