



# Full wwPDB NMR Structure Validation Report ⓘ

Dec 24, 2024 – 02:54 PM EST

PDB ID : 2LAU  
BMRB ID : 17456  
Title : Solution structure of the THAP-zinc finger domain 1-81 from the cell growth suppressor human THAP11 protein  
Authors : Durand, J.; Campagne, S.; Milon, A.; Gervais, V.  
Deposited on : 2011-03-21

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4.02b-467  
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)  
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) : 2.40

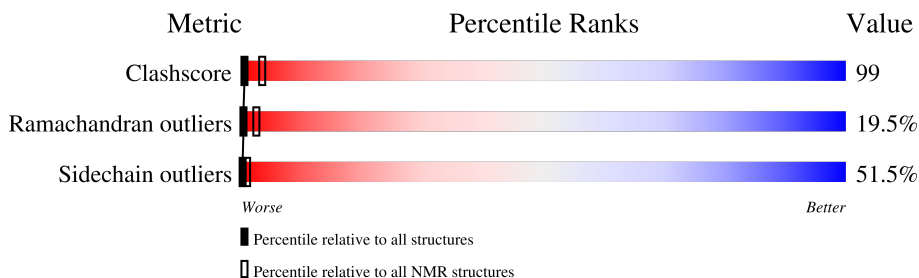
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*SOLUTION NMR*

The overall completeness of chemical shifts assignment is 87%.

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	210492	14027
Ramachandran outliers	207382	12486
Sidechain outliers	206894	12463

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

Mol	Chain	Length	Quality of chain
1	A	81	

## 2 Ensemble composition and analysis

This entry contains 19 models. Model 12 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *lowest energy*.

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

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:4-A:43, A:52-A:81 (70)	0.96	12

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 2 clusters and 2 single-model clusters were found.

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

### 3 Entry composition [i](#)

There are 2 unique types of molecules in this entry. The entry contains 1269 atoms, of which 626 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called THAP domain-containing protein 11.

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	A	81	1268	407	626	120	110	5	0

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	GLY	-	expression tag	UNP Q96EK4
A	2	SER	-	expression tag	UNP Q96EK4

- Molecule 2 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	
			Total	Zn
2	A	1	1	1

## 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: THAP domain-containing protein 11

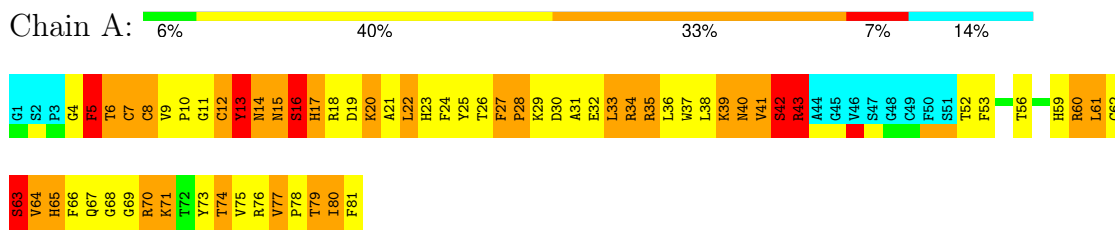


### 4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

#### 4.2.1 Score per residue for model 1

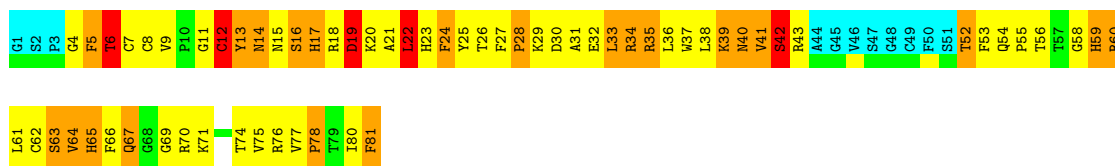
- Molecule 1: THAP domain-containing protein 11



#### 4.2.2 Score per residue for model 2

- Molecule 1: THAP domain-containing protein 11

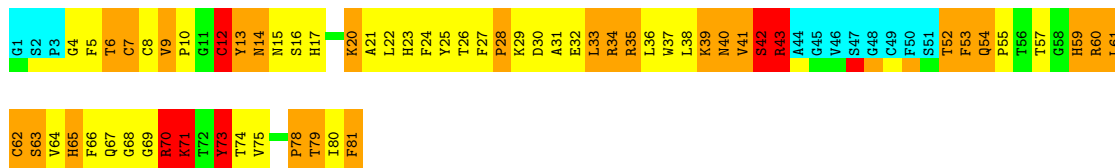




### 4.2.3 Score per residue for model 3

- Molecule 1: THAP domain-containing protein 11

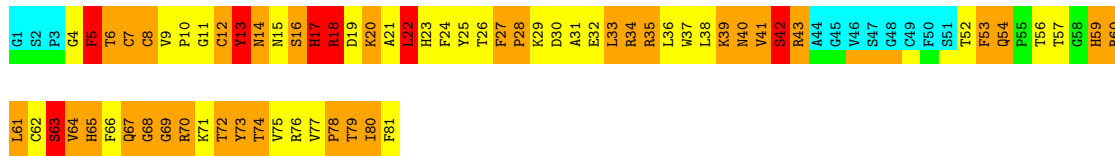
Chain A: 10% 38% 31% 7% 14%



### 4.2.4 Score per residue for model 4

- Molecule 1: THAP domain-containing protein 11

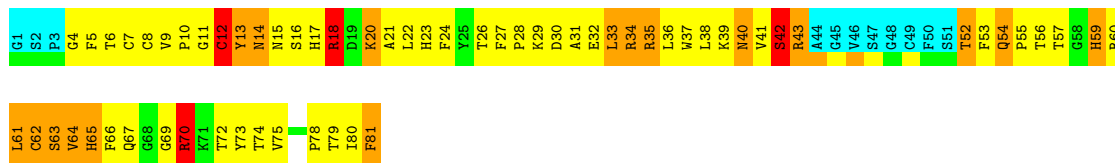
Chain A: 35% 41% 9% 14%



### 4.2.5 Score per residue for model 5

- Molecule 1: THAP domain-containing protein 11

Chain A: 9% 52% 21% 5% 14%



### 4.2.6 Score per residue for model 6

- Molecule 1: THAP domain-containing protein 11

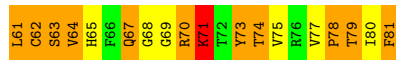
Chain A:  7% 41% 32% 6% 14%



#### 4.2.7 Score per residue for model 7

- Molecule 1: THAP domain-containing protein 11

Chain A:  6% 41% 37% 14%



#### 4.2.8 Score per residue for model 8

- Molecule 1: THAP domain-containing protein 11

Chain A:  33% 43% 6% 14%



#### 4.2.9 Score per residue for model 9

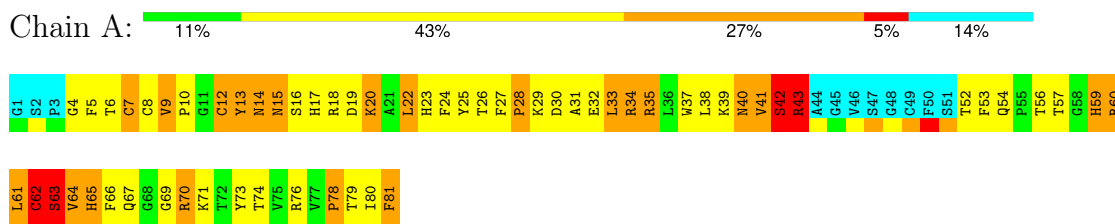
- Molecule 1: THAP domain-containing protein 11

Chain A:  5% 47% 32% 14%



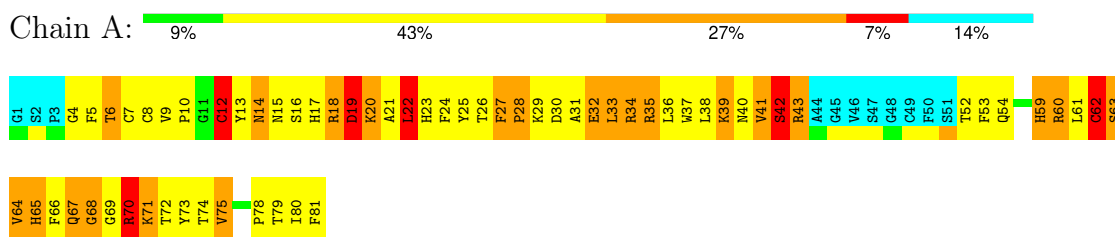
#### 4.2.10 Score per residue for model 10

- Molecule 1: THAP domain-containing protein 11



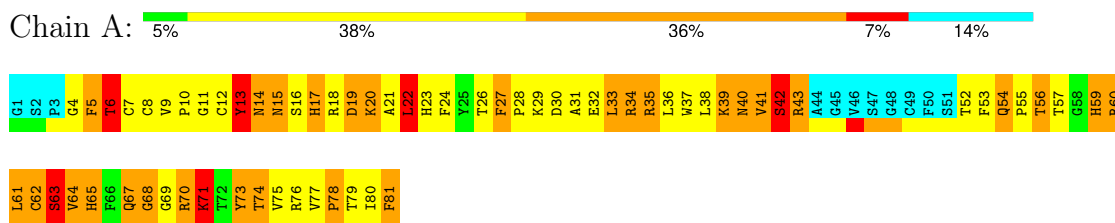
#### 4.2.11 Score per residue for model 11

- Molecule 1: THAP domain-containing protein 11



#### 4.2.12 Score per residue for model 12 (medoid)

- Molecule 1: THAP domain-containing protein 11



#### 4.2.13 Score per residue for model 13

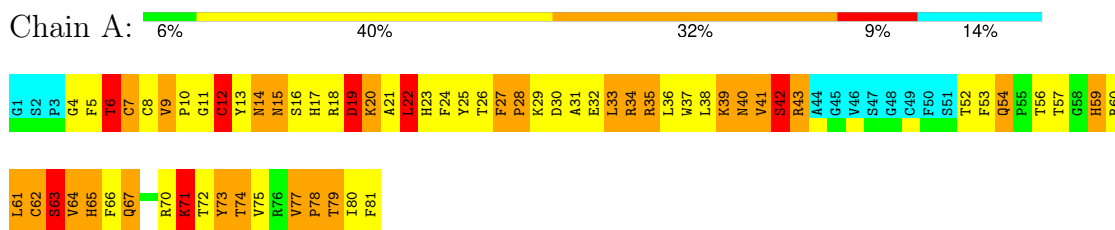
- Molecule 1: THAP domain-containing protein 11





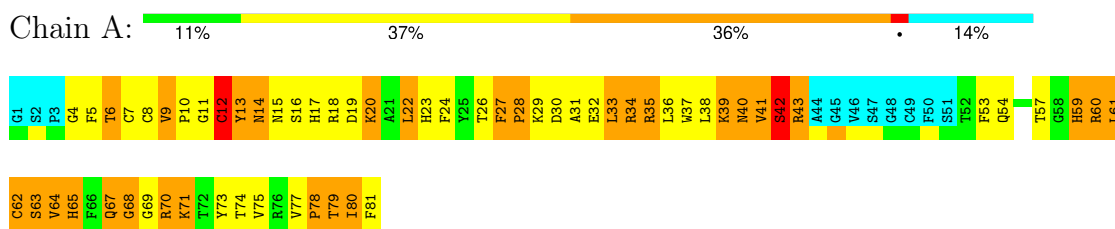
#### 4.2.14 Score per residue for model 14

- Molecule 1: THAP domain-containing protein 11



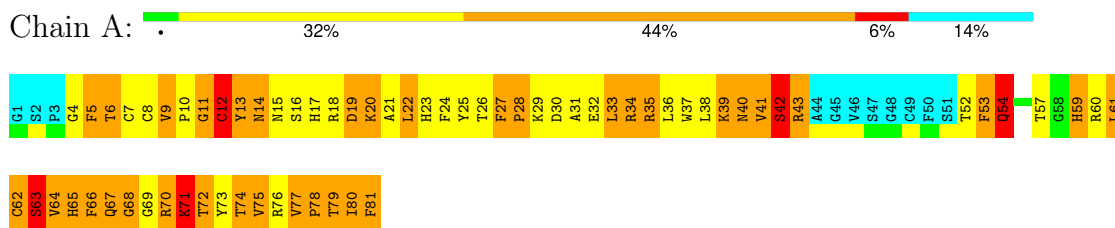
#### 4.2.15 Score per residue for model 15

- Molecule 1: THAP domain-containing protein 11



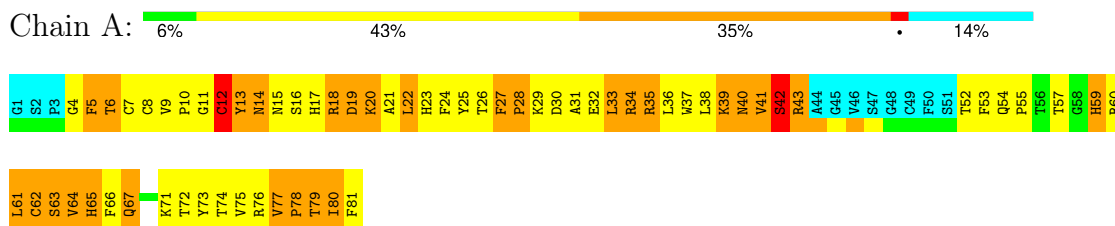
#### 4.2.16 Score per residue for model 16

- Molecule 1: THAP domain-containing protein 11



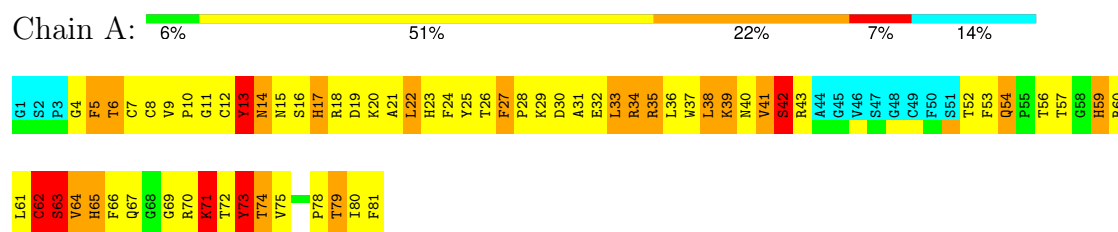
#### 4.2.17 Score per residue for model 17

- Molecule 1: THAP domain-containing protein 11



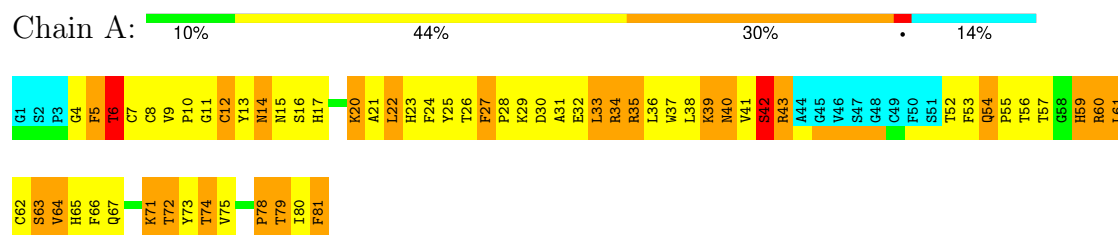
### 4.2.18 Score per residue for model 18

- Molecule 1: THAP domain-containing protein 11



### 4.2.19 Score per residue for model 19

- Molecule 1: THAP domain-containing protein 11



## 5 Refinement protocol and experimental data overview

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

Of the 112 calculated structures, 19 were deposited, based on the following criterion: *structures with the lowest energy*.

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

Software name	Classification	Version
CNS	refinement	1.21

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	948
Number of shifts mapped to atoms	948
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	87%

## 6 Model quality [i](#)

### 6.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: ZN

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	0.56±0.02	0±0/594 ( 0.0± 0.0%)	0.74±0.02	0±1/802 ( 0.0± 0.1%)
All	All	0.56	0/11286 ( 0.0%)	0.74	5/15238 ( 0.0%)

There are no bond-length outliers.

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

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	62	CYS	CB-CA-C	6.59	123.58	110.40	10	4
1	A	62	CYS	CA-CB-SG	5.75	124.34	114.00	10	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	576	565	562	113±14
All	All	10963	10735	10678	2151

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 99.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:6:THR:N	1:A:16:SER:HA	1.18	1.52	8	5
1:A:80:ILE:O	1:A:81:PHE:CD1	1.10	2.04	15	19
1:A:5:PHE:C	1:A:16:SER:HA	1.09	1.65	7	5
1:A:6:THR:C	1:A:16:SER:HB3	1.08	1.68	16	14
1:A:80:ILE:O	1:A:81:PHE:CG	1.07	2.08	9	14
1:A:41:VAL:HG23	1:A:61:LEU:HD13	1.05	1.27	16	2
1:A:31:ALA:O	1:A:34:ARG:HG3	1.02	1.53	13	14
1:A:6:THR:HG23	1:A:24:PHE:HZ	1.01	1.14	8	4
1:A:14:ASN:O	1:A:62:CYS:SG	1.01	2.19	18	12
1:A:9:VAL:HG23	1:A:12:CYS:SG	0.98	1.97	19	15
1:A:41:VAL:HG21	1:A:61:LEU:HD22	0.97	1.24	9	2
1:A:6:THR:HG22	1:A:14:ASN:HB2	0.97	1.34	2	1
1:A:62:CYS:O	1:A:65:HIS:CE1	0.95	2.19	4	11
1:A:8:CYS:HA	1:A:41:VAL:HA	0.94	1.38	7	1
1:A:6:THR:HA	1:A:24:PHE:CE2	0.93	1.97	2	4
1:A:41:VAL:CG2	1:A:61:LEU:HD22	0.93	1.94	9	5
1:A:8:CYS:CA	1:A:41:VAL:HA	0.92	1.94	7	1
1:A:5:PHE:O	1:A:7:CYS:N	0.92	2.03	2	3
1:A:9:VAL:HG22	1:A:12:CYS:SG	0.92	2.05	8	3
1:A:6:THR:O	1:A:9:VAL:HG12	0.92	1.65	7	1
1:A:7:CYS:O	1:A:9:VAL:N	0.91	2.03	8	3
1:A:80:ILE:HG22	1:A:81:PHE:CD2	0.91	2.01	15	5
1:A:14:ASN:ND2	1:A:62:CYS:SG	0.90	2.44	7	3
1:A:25:TYR:O	1:A:60:ARG:HB2	0.90	1.66	19	15
1:A:65:HIS:O	1:A:80:ILE:HD13	0.90	1.67	16	6
1:A:14:ASN:HB3	1:A:22:LEU:HD13	0.90	1.40	18	4
1:A:41:VAL:CG2	1:A:61:LEU:HD13	0.89	1.97	16	2
1:A:6:THR:HG23	1:A:24:PHE:CZ	0.89	2.02	2	4
1:A:23:HIS:O	1:A:62:CYS:HB2	0.89	1.67	7	1
1:A:9:VAL:HG11	1:A:15:ASN:HA	0.88	1.45	16	12
1:A:31:ALA:O	1:A:34:ARG:CG	0.88	2.22	19	16
1:A:7:CYS:N	1:A:16:SER:HB3	0.87	1.83	18	8
1:A:22:LEU:HD23	1:A:22:LEU:N	0.87	1.83	4	8
1:A:25:TYR:O	1:A:60:ARG:CB	0.87	2.23	2	6
1:A:5:PHE:HB3	1:A:59:HIS:CE1	0.86	2.06	6	15
1:A:71:LYS:O	1:A:72:THR:HG23	0.86	1.68	4	5
1:A:6:THR:HB	1:A:15:ASN:C	0.85	1.91	2	1
1:A:7:CYS:O	1:A:9:VAL:HG23	0.85	1.72	8	3
1:A:12:CYS:SG	1:A:13:TYR:N	0.85	2.49	3	4
1:A:13:TYR:HB2	1:A:64:VAL:HG22	0.84	1.48	14	8
1:A:65:HIS:O	1:A:78:PRO:HB3	0.84	1.72	7	6
1:A:8:CYS:HB2	1:A:42:SER:HA	0.84	1.47	17	13

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:41:VAL:HG21	1:A:60:ARG:O	0.84	1.73	15	7
1:A:9:VAL:CG1	1:A:14:ASN:O	0.83	2.26	2	1
1:A:73:TYR:O	1:A:75:VAL:N	0.83	2.10	12	5
1:A:14:ASN:OD1	1:A:62:CYS:HB2	0.83	1.73	11	4
1:A:62:CYS:O	1:A:65:HIS:NE2	0.82	2.11	8	7
1:A:21:ALA:C	1:A:22:LEU:HD23	0.82	1.95	1	2
1:A:41:VAL:O	1:A:42:SER:HB3	0.82	1.70	5	17
1:A:5:PHE:O	1:A:16:SER:HA	0.81	1.75	7	1
1:A:40:ASN:HB3	1:A:79:THR:HG23	0.81	1.52	14	4
1:A:9:VAL:CG2	1:A:12:CYS:SG	0.81	2.69	3	11
1:A:7:CYS:SG	1:A:7:CYS:O	0.81	2.38	17	13
1:A:14:ASN:OD1	1:A:22:LEU:HD12	0.80	1.75	6	1
1:A:13:TYR:N	1:A:64:VAL:CG2	0.80	2.44	4	13
1:A:67:GLN:O	1:A:69:GLY:N	0.80	2.15	7	7
1:A:61:LEU:HD12	1:A:78:PRO:HG2	0.80	1.53	2	1
1:A:22:LEU:HD23	1:A:22:LEU:H	0.79	1.37	14	6
1:A:31:ALA:O	1:A:34:ARG:HB3	0.79	1.76	4	4
1:A:21:ALA:C	1:A:22:LEU:HD22	0.79	1.98	16	7
1:A:35:ARG:HA	1:A:38:LEU:HD22	0.79	1.53	7	2
1:A:54:GLN:O	1:A:57:THR:HG22	0.78	1.79	16	16
1:A:40:ASN:HB3	1:A:79:THR:HG22	0.78	1.54	12	2
1:A:13:TYR:N	1:A:64:VAL:HG22	0.78	1.94	10	10
1:A:14:ASN:CB	1:A:22:LEU:HD13	0.78	2.08	18	4
1:A:9:VAL:HB	1:A:12:CYS:SG	0.77	2.18	2	3
1:A:6:THR:CA	1:A:16:SER:HB3	0.77	2.09	16	15
1:A:22:LEU:N	1:A:22:LEU:HD22	0.77	1.95	17	1
1:A:14:ASN:HD22	1:A:14:ASN:N	0.77	1.78	12	2
1:A:14:ASN:HB3	1:A:22:LEU:HG	0.77	1.57	14	5
1:A:7:CYS:C	1:A:41:VAL:O	0.77	2.23	6	13
1:A:41:VAL:HG23	1:A:61:LEU:CD2	0.77	2.09	15	6
1:A:5:PHE:C	1:A:16:SER:CA	0.77	2.52	7	2
1:A:5:PHE:N	1:A:17:HIS:HB2	0.76	1.95	16	4
1:A:77:VAL:HG23	1:A:79:THR:HG23	0.76	1.54	4	2
1:A:75:VAL:O	1:A:75:VAL:HG13	0.76	1.81	15	10
1:A:5:PHE:N	1:A:16:SER:O	0.75	2.19	5	10
1:A:31:ALA:O	1:A:34:ARG:HG2	0.75	1.80	19	9
1:A:34:ARG:HG3	1:A:35:ARG:N	0.75	1.96	18	14
1:A:41:VAL:HG23	1:A:61:LEU:CD1	0.75	2.11	16	3
1:A:35:ARG:O	1:A:38:LEU:HB2	0.75	1.81	18	19
1:A:6:THR:H	1:A:16:SER:C	0.75	1.85	5	8
1:A:22:LEU:HD22	1:A:22:LEU:N	0.75	1.96	16	6

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:6:THR:N	1:A:16:SER:CB	0.75	2.50	7	7
1:A:9:VAL:HG21	1:A:14:ASN:O	0.75	1.81	1	3
1:A:61:LEU:HD23	1:A:78:PRO:HG2	0.74	1.59	7	3
1:A:13:TYR:HB2	1:A:64:VAL:HG13	0.74	1.57	10	4
1:A:14:ASN:ND2	1:A:14:ASN:N	0.74	2.35	7	8
1:A:67:GLN:NE2	1:A:75:VAL:HG21	0.73	1.97	8	2
1:A:9:VAL:HG13	1:A:12:CYS:N	0.73	1.99	8	3
1:A:62:CYS:O	1:A:65:HIS:HD2	0.73	1.64	7	1
1:A:27:PHE:CE2	1:A:34:ARG:HB2	0.73	2.18	9	2
1:A:40:ASN:CB	1:A:79:THR:HG22	0.73	2.14	12	2
1:A:12:CYS:C	1:A:64:VAL:CG2	0.73	2.57	17	9
1:A:22:LEU:N	1:A:22:LEU:CD2	0.73	2.51	11	15
1:A:38:LEU:HD11	1:A:55:PRO:HB3	0.72	1.61	3	1
1:A:17:HIS:O	1:A:17:HIS:CG	0.72	2.42	5	8
1:A:6:THR:O	1:A:15:ASN:HA	0.72	1.84	4	3
1:A:41:VAL:O	1:A:42:SER:CB	0.72	2.37	10	19
1:A:65:HIS:N	1:A:65:HIS:ND1	0.72	2.35	9	17
1:A:7:CYS:O	1:A:15:ASN:HA	0.71	1.85	1	2
1:A:38:LEU:HG	1:A:55:PRO:HB2	0.71	1.62	7	1
1:A:70:ARG:O	1:A:71:LYS:HE2	0.71	1.85	13	2
1:A:6:THR:N	1:A:16:SER:HB3	0.71	2.01	5	14
1:A:14:ASN:HB3	1:A:22:LEU:CG	0.71	2.16	12	4
1:A:8:CYS:HB2	1:A:42:SER:CA	0.70	2.16	17	8
1:A:5:PHE:HA	1:A:16:SER:OG	0.70	1.86	4	4
1:A:6:THR:CG2	1:A:14:ASN:HB2	0.70	2.16	2	1
1:A:34:ARG:HG2	1:A:35:ARG:N	0.70	2.00	3	2
1:A:61:LEU:HD23	1:A:78:PRO:HB2	0.70	1.64	19	1
1:A:6:THR:HG23	1:A:14:ASN:OD1	0.70	1.85	1	3
1:A:8:CYS:HB3	1:A:41:VAL:O	0.70	1.87	1	3
1:A:6:THR:HG21	1:A:19:ASP:HB2	0.70	1.64	1	1
1:A:66:PHE:CE2	1:A:78:PRO:HG3	0.69	2.22	11	5
1:A:37:TRP:HA	1:A:40:ASN:OD1	0.69	1.86	2	3
1:A:9:VAL:HG13	1:A:15:ASN:HA	0.69	1.64	2	1
1:A:71:LYS:O	1:A:71:LYS:HG2	0.69	1.87	16	6
1:A:14:ASN:N	1:A:14:ASN:HD22	0.69	1.86	7	4
1:A:13:TYR:HB3	1:A:14:ASN:ND2	0.68	2.03	14	15
1:A:14:ASN:OD1	1:A:22:LEU:HB2	0.68	1.88	7	2
1:A:7:CYS:O	1:A:65:HIS:CE1	0.68	2.45	7	1
1:A:6:THR:HG22	1:A:15:ASN:N	0.68	2.04	1	3
1:A:42:SER:O	1:A:43:ARG:CG	0.68	2.42	3	3
1:A:7:CYS:O	1:A:61:LEU:HD12	0.68	1.88	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:14:ASN:HD21	1:A:63:SER:HB2	0.68	1.49	18	3
1:A:13:TYR:H	1:A:64:VAL:HG22	0.68	1.48	3	4
1:A:5:PHE:HA	1:A:16:SER:CB	0.67	2.19	2	3
1:A:12:CYS:HB3	1:A:64:VAL:HG23	0.67	1.65	2	1
1:A:6:THR:HB	1:A:15:ASN:O	0.67	1.89	8	3
1:A:9:VAL:HG21	1:A:62:CYS:SG	0.67	2.28	8	3
1:A:6:THR:CB	1:A:15:ASN:C	0.67	2.63	2	1
1:A:12:CYS:HA	1:A:64:VAL:CG2	0.67	2.20	12	6
1:A:9:VAL:HG11	1:A:15:ASN:CA	0.67	2.20	16	12
1:A:53:PHE:O	1:A:53:PHE:CD2	0.67	2.48	11	1
1:A:63:SER:O	1:A:65:HIS:N	0.67	2.27	14	2
1:A:6:THR:CG2	1:A:24:PHE:HZ	0.66	2.00	8	3
1:A:6:THR:HG22	1:A:14:ASN:CB	0.66	2.15	2	1
1:A:61:LEU:HD12	1:A:62:CYS:H	0.66	1.49	16	2
1:A:41:VAL:CG2	1:A:61:LEU:HD23	0.66	2.21	15	4
1:A:7:CYS:SG	1:A:9:VAL:HB	0.66	2.31	3	2
1:A:12:CYS:HB2	1:A:64:VAL:HG23	0.66	1.67	19	1
1:A:65:HIS:N	1:A:65:HIS:HD1	0.65	1.89	6	6
1:A:21:ALA:O	1:A:22:LEU:O	0.65	2.13	7	6
1:A:79:THR:O	1:A:80:ILE:HD13	0.65	1.91	6	1
1:A:7:CYS:N	1:A:16:SER:CB	0.65	2.59	19	13
1:A:80:ILE:O	1:A:81:PHE:CD2	0.65	2.49	6	6
1:A:9:VAL:CG2	1:A:14:ASN:O	0.65	2.44	1	4
1:A:14:ASN:HB3	1:A:22:LEU:CD1	0.65	2.19	18	3
1:A:24:PHE:HB3	1:A:60:ARG:HG3	0.64	1.67	8	12
1:A:35:ARG:HD3	1:A:36:LEU:N	0.64	2.08	17	5
1:A:9:VAL:HG11	1:A:14:ASN:O	0.64	1.91	2	1
1:A:67:GLN:NE2	1:A:80:ILE:HD11	0.64	2.05	11	2
1:A:7:CYS:H	1:A:16:SER:H	0.64	1.34	11	8
1:A:27:PHE:CE2	1:A:34:ARG:HD3	0.64	2.28	1	8
1:A:9:VAL:HB	1:A:15:ASN:HB3	0.64	1.70	8	2
1:A:33:LEU:HD21	1:A:76:ARG:NH2	0.64	2.06	8	1
1:A:5:PHE:N	1:A:17:HIS:HB3	0.64	2.08	14	9
1:A:65:HIS:HB3	1:A:78:PRO:O	0.64	1.92	19	1
1:A:8:CYS:O	1:A:10:PRO:HD3	0.64	1.92	17	15
1:A:4:GLY:HA3	1:A:17:HIS:HA	0.64	1.68	13	3
1:A:5:PHE:CZ	1:A:57:THR:HG21	0.64	2.27	9	1
1:A:7:CYS:SG	1:A:9:VAL:HG12	0.64	2.33	2	1
1:A:7:CYS:HA	1:A:41:VAL:HG22	0.64	1.68	3	2
1:A:6:THR:H	1:A:16:SER:HA	0.64	1.46	8	2
1:A:13:TYR:CB	1:A:64:VAL:HG22	0.64	2.23	14	5

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:80:ILE:O	1:A:80:ILE:HG22	0.64	1.93	16	7
1:A:71:LYS:O	1:A:71:LYS:CG	0.64	2.46	8	4
1:A:33:LEU:HA	1:A:36:LEU:HD12	0.64	1.69	9	3
1:A:4:GLY:O	1:A:5:PHE:CD1	0.63	2.52	9	9
1:A:8:CYS:H	1:A:41:VAL:HG23	0.63	1.54	7	1
1:A:61:LEU:HD23	1:A:78:PRO:CG	0.63	2.23	7	2
1:A:79:THR:HG22	1:A:81:PHE:CE2	0.63	2.28	7	3
1:A:14:ASN:N	1:A:14:ASN:ND2	0.63	2.46	12	7
1:A:6:THR:O	1:A:9:VAL:N	0.63	2.32	7	1
1:A:69:GLY:O	1:A:70:ARG:CB	0.63	2.47	5	8
1:A:9:VAL:HG13	1:A:12:CYS:H	0.63	1.53	4	3
1:A:35:ARG:HA	1:A:38:LEU:HG	0.63	1.70	12	9
1:A:41:VAL:HG23	1:A:61:LEU:HD22	0.63	1.68	6	7
1:A:4:GLY:O	1:A:5:PHE:HB3	0.63	1.94	8	4
1:A:19:ASP:OD1	1:A:21:ALA:HB3	0.63	1.94	2	4
1:A:38:LEU:HD13	1:A:55:PRO:HG2	0.63	1.71	5	1
1:A:9:VAL:CG2	1:A:62:CYS:SG	0.62	2.87	4	3
1:A:75:VAL:O	1:A:75:VAL:CG1	0.62	2.47	15	7
1:A:66:PHE:CE1	1:A:71:LYS:HD3	0.62	2.29	4	1
1:A:9:VAL:HG23	1:A:12:CYS:N	0.62	2.09	12	4
1:A:62:CYS:O	1:A:65:HIS:CD2	0.62	2.51	7	4
1:A:6:THR:CG2	1:A:24:PHE:CZ	0.62	2.81	2	2
1:A:67:GLN:HE22	1:A:80:ILE:HD11	0.62	1.54	11	1
1:A:19:ASP:O	1:A:21:ALA:N	0.62	2.32	18	1
1:A:8:CYS:CB	1:A:42:SER:HA	0.62	2.24	15	5
1:A:8:CYS:CB	1:A:42:SER:HB2	0.62	2.24	4	3
1:A:8:CYS:HB3	1:A:42:SER:CB	0.62	2.24	2	1
1:A:76:ARG:CZ	1:A:76:ARG:HB2	0.62	2.25	8	1
1:A:67:GLN:O	1:A:68:GLY:O	0.61	2.17	11	4
1:A:42:SER:O	1:A:43:ARG:HB3	0.61	1.96	6	3
1:A:6:THR:C	1:A:16:SER:CB	0.61	2.63	19	6
1:A:6:THR:H	1:A:17:HIS:N	0.61	1.92	16	2
1:A:9:VAL:HG21	1:A:12:CYS:SG	0.61	2.33	7	2
1:A:71:LYS:HA	1:A:75:VAL:HG11	0.61	1.71	13	2
1:A:25:TYR:CG	1:A:66:PHE:CE2	0.61	2.87	19	1
1:A:32:GLU:O	1:A:33:LEU:C	0.61	2.39	17	19
1:A:42:SER:O	1:A:43:ARG:CB	0.61	2.48	1	4
1:A:41:VAL:HG23	1:A:61:LEU:HD23	0.61	1.69	15	3
1:A:80:ILE:C	1:A:81:PHE:CG	0.61	2.74	9	18
1:A:20:LYS:HA	1:A:24:PHE:CZ	0.61	2.31	17	11
1:A:32:GLU:OE2	1:A:36:LEU:HD11	0.61	1.96	18	4

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:14:ASN:OD1	1:A:24:PHE:CE1	0.61	2.54	1	3
1:A:32:GLU:O	1:A:35:ARG:HG3	0.60	1.95	7	7
1:A:40:ASN:OD1	1:A:40:ASN:N	0.60	2.33	13	10
1:A:8:CYS:HA	1:A:16:SER:HB3	0.60	1.73	2	1
1:A:66:PHE:CE2	1:A:71:LYS:HE3	0.60	2.31	11	1
1:A:24:PHE:HB3	1:A:60:ARG:CG	0.60	2.26	1	5
1:A:80:ILE:O	1:A:80:ILE:CG2	0.60	2.49	8	4
1:A:15:ASN:OD1	1:A:18:ARG:HB3	0.60	1.96	14	1
1:A:71:LYS:HG3	1:A:75:VAL:HB	0.60	1.72	19	1
1:A:15:ASN:HB3	1:A:18:ARG:CG	0.60	2.26	5	1
1:A:6:THR:O	1:A:15:ASN:CA	0.60	2.49	4	3
1:A:36:LEU:O	1:A:39:LYS:HB2	0.60	1.96	3	17
1:A:41:VAL:CG2	1:A:61:LEU:HD21	0.60	2.26	5	1
1:A:6:THR:HA	1:A:24:PHE:CZ	0.60	2.32	1	4
1:A:9:VAL:HG23	1:A:12:CYS:CB	0.60	2.27	7	2
1:A:6:THR:CA	1:A:24:PHE:CE2	0.59	2.86	4	3
1:A:9:VAL:HG12	1:A:15:ASN:ND2	0.59	2.12	3	1
1:A:13:TYR:CD2	1:A:63:SER:HB2	0.59	2.33	4	3
1:A:14:ASN:OD1	1:A:24:PHE:CZ	0.59	2.55	1	3
1:A:35:ARG:HA	1:A:38:LEU:HD13	0.59	1.74	2	2
1:A:14:ASN:ND2	1:A:14:ASN:H	0.59	1.95	10	4
1:A:41:VAL:HG22	1:A:61:LEU:HD21	0.59	1.74	5	1
1:A:15:ASN:ND2	1:A:18:ARG:HG3	0.59	2.12	6	1
1:A:9:VAL:HG11	1:A:15:ASN:CG	0.59	2.17	19	1
1:A:6:THR:O	1:A:6:THR:HG22	0.59	1.98	8	2
1:A:9:VAL:HG13	1:A:14:ASN:O	0.59	1.97	2	1
1:A:61:LEU:HD11	1:A:78:PRO:CB	0.59	2.27	10	2
1:A:12:CYS:O	1:A:64:VAL:HG21	0.59	1.97	15	3
1:A:6:THR:HG22	1:A:15:ASN:O	0.59	1.96	1	1
1:A:54:GLN:HB3	1:A:56:THR:HG22	0.59	1.75	6	3
1:A:42:SER:OG	1:A:53:PHE:CE1	0.59	2.54	5	6
1:A:61:LEU:CD1	1:A:78:PRO:HG2	0.59	2.28	17	3
1:A:6:THR:OG1	1:A:16:SER:O	0.58	2.21	2	1
1:A:25:TYR:N	1:A:61:LEU:O	0.58	2.29	7	2
1:A:67:GLN:CD	1:A:75:VAL:HG21	0.58	2.18	8	1
1:A:14:ASN:OD1	1:A:22:LEU:CD1	0.58	2.49	6	1
1:A:5:PHE:O	1:A:6:THR:CB	0.58	2.51	9	7
1:A:80:ILE:HG22	1:A:81:PHE:HD2	0.58	1.58	11	1
1:A:61:LEU:HD23	1:A:78:PRO:CB	0.58	2.28	19	1
1:A:79:THR:HG22	1:A:81:PHE:HE2	0.58	1.57	7	1
1:A:9:VAL:HB	1:A:15:ASN:HB2	0.58	1.74	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:16:SER:OG	1:A:17:HIS:N	0.57	2.35	2	1
1:A:41:VAL:CG2	1:A:61:LEU:CD1	0.57	2.82	19	1
1:A:12:CYS:O	1:A:14:ASN:N	0.57	2.38	12	2
1:A:4:GLY:O	1:A:5:PHE:CB	0.57	2.52	1	3
1:A:6:THR:CA	1:A:24:PHE:CZ	0.57	2.87	1	2
1:A:67:GLN:O	1:A:68:GLY:C	0.57	2.43	4	4
1:A:5:PHE:HB2	1:A:16:SER:OG	0.57	1.99	12	6
1:A:27:PHE:CE2	1:A:38:LEU:HD23	0.57	2.34	18	1
1:A:14:ASN:CG	1:A:62:CYS:SG	0.57	2.83	7	2
1:A:7:CYS:O	1:A:8:CYS:C	0.57	2.42	2	2
1:A:5:PHE:O	1:A:53:PHE:CD2	0.57	2.58	9	5
1:A:54:GLN:NE2	1:A:56:THR:HG23	0.57	2.15	13	1
1:A:6:THR:CB	1:A:15:ASN:O	0.57	2.53	1	2
1:A:9:VAL:HG13	1:A:9:VAL:O	0.57	1.99	7	1
1:A:80:ILE:O	1:A:81:PHE:CE1	0.56	2.57	15	3
1:A:12:CYS:HB2	1:A:65:HIS:CE1	0.56	2.35	8	10
1:A:8:CYS:HB3	1:A:42:SER:HB2	0.56	1.77	8	2
1:A:62:CYS:C	1:A:65:HIS:CE1	0.56	2.79	2	16
1:A:9:VAL:HG21	1:A:12:CYS:O	0.56	2.01	18	3
1:A:41:VAL:HG23	1:A:61:LEU:HD12	0.56	1.76	19	1
1:A:31:ALA:O	1:A:34:ARG:CB	0.56	2.54	1	16
1:A:9:VAL:O	1:A:9:VAL:CG1	0.56	2.53	3	1
1:A:27:PHE:CE2	1:A:37:TRP:HB2	0.56	2.35	7	3
1:A:33:LEU:HD12	1:A:33:LEU:O	0.56	2.01	9	4
1:A:8:CYS:SG	1:A:8:CYS:O	0.56	2.63	7	1
1:A:41:VAL:HG21	1:A:61:LEU:CD2	0.56	2.16	9	1
1:A:34:ARG:NH1	1:A:38:LEU:HD11	0.56	2.16	17	1
1:A:80:ILE:C	1:A:81:PHE:CD1	0.56	2.77	7	5
1:A:9:VAL:O	1:A:9:VAL:HG13	0.56	1.99	3	1
1:A:33:LEU:HD21	1:A:76:ARG:NH1	0.56	2.16	4	1
1:A:6:THR:HG21	1:A:19:ASP:OD2	0.56	2.00	2	1
1:A:25:TYR:O	1:A:60:ARG:HB3	0.56	1.98	7	2
1:A:38:LEU:HG	1:A:55:PRO:CB	0.56	2.31	7	1
1:A:6:THR:H	1:A:16:SER:CB	0.56	2.14	9	2
1:A:13:TYR:CE1	1:A:64:VAL:HG11	0.56	2.36	19	1
1:A:6:THR:N	1:A:16:SER:CA	0.55	2.57	1	4
1:A:68:GLY:O	1:A:69:GLY:O	0.55	2.24	4	1
1:A:37:TRP:O	1:A:38:LEU:C	0.55	2.45	16	18
1:A:71:LYS:O	1:A:72:THR:CG2	0.55	2.54	18	4
1:A:19:ASP:OD1	1:A:22:LEU:HD12	0.55	2.02	7	1
1:A:14:ASN:OD1	1:A:22:LEU:CB	0.55	2.54	6	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:64:VAL:C	1:A:65:HIS:HD1	0.55	2.04	6	2
1:A:12:CYS:SG	1:A:14:ASN:O	0.55	2.65	10	3
1:A:5:PHE:O	1:A:53:PHE:CG	0.55	2.59	5	5
1:A:42:SER:OG	1:A:53:PHE:CZ	0.55	2.60	10	7
1:A:8:CYS:N	1:A:41:VAL:O	0.55	2.39	19	3
1:A:9:VAL:CG2	1:A:12:CYS:O	0.55	2.54	18	3
1:A:69:GLY:O	1:A:70:ARG:CG	0.55	2.55	11	3
1:A:6:THR:HG22	1:A:15:ASN:CA	0.55	2.32	8	2
1:A:55:PRO:HB3	1:A:59:HIS:HB2	0.54	1.80	7	2
1:A:31:ALA:O	1:A:34:ARG:HD2	0.54	2.02	4	1
1:A:32:GLU:HA	1:A:35:ARG:HG3	0.54	1.77	17	5
1:A:53:PHE:O	1:A:54:GLN:C	0.54	2.44	7	15
1:A:9:VAL:HG11	1:A:15:ASN:CB	0.54	2.32	14	9
1:A:6:THR:O	1:A:42:SER:HB3	0.54	2.00	19	2
1:A:77:VAL:HG23	1:A:79:THR:HG22	0.54	1.77	15	1
1:A:61:LEU:HD11	1:A:78:PRO:HG2	0.54	1.79	17	3
1:A:31:ALA:HA	1:A:34:ARG:CD	0.54	2.33	13	2
1:A:66:PHE:CE1	1:A:78:PRO:HG3	0.54	2.38	19	6
1:A:66:PHE:CD2	1:A:71:LYS:HB2	0.54	2.37	8	1
1:A:69:GLY:O	1:A:70:ARG:HB3	0.54	2.03	3	2
1:A:8:CYS:HB2	1:A:40:ASN:C	0.54	2.22	7	1
1:A:7:CYS:N	1:A:16:SER:H	0.54	2.01	14	3
1:A:7:CYS:O	1:A:61:LEU:CD1	0.54	2.55	7	1
1:A:8:CYS:HB3	1:A:61:LEU:HD11	0.54	1.79	7	1
1:A:66:PHE:CE2	1:A:78:PRO:CG	0.54	2.90	18	3
1:A:61:LEU:HD12	1:A:66:PHE:CE2	0.54	2.38	3	1
1:A:14:ASN:H	1:A:14:ASN:HD22	0.54	1.45	10	1
1:A:40:ASN:ND2	1:A:79:THR:OG1	0.53	2.42	5	1
1:A:71:LYS:CG	1:A:75:VAL:HB	0.53	2.33	19	1
1:A:6:THR:O	1:A:8:CYS:N	0.53	2.41	7	1
1:A:35:ARG:HA	1:A:38:LEU:CD2	0.53	2.30	7	1
1:A:27:PHE:CD2	1:A:34:ARG:HB2	0.53	2.39	18	6
1:A:65:HIS:ND1	1:A:81:PHE:CZ	0.53	2.76	19	1
1:A:6:THR:O	1:A:9:VAL:CG1	0.53	2.49	7	2
1:A:60:ARG:C	1:A:61:LEU:HD23	0.53	2.23	4	2
1:A:80:ILE:C	1:A:81:PHE:CD2	0.53	2.82	6	3
1:A:9:VAL:CB	1:A:12:CYS:SG	0.53	2.95	2	2
1:A:10:PRO:HG2	1:A:81:PHE:CD1	0.53	2.38	8	3
1:A:38:LEU:O	1:A:42:SER:N	0.53	2.42	3	1
1:A:6:THR:O	1:A:6:THR:CG2	0.53	2.56	4	3
1:A:34:ARG:HG3	1:A:35:ARG:H	0.53	1.63	18	12

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:6:THR:HG22	1:A:15:ASN:C	0.53	2.24	4	2
1:A:12:CYS:HB2	1:A:65:HIS:ND1	0.53	2.19	10	4
1:A:8:CYS:CA	1:A:16:SER:HB3	0.52	2.34	2	1
1:A:53:PHE:CD1	1:A:59:HIS:CE1	0.52	2.97	3	6
1:A:34:ARG:HH12	1:A:38:LEU:HD11	0.52	1.63	4	1
1:A:41:VAL:CG2	1:A:61:LEU:CD2	0.52	2.88	11	5
1:A:5:PHE:O	1:A:59:HIS:NE2	0.52	2.42	5	2
1:A:61:LEU:HD12	1:A:62:CYS:N	0.52	2.19	16	1
1:A:41:VAL:HB	1:A:61:LEU:CD2	0.52	2.34	18	2
1:A:5:PHE:CA	1:A:16:SER:HA	0.52	2.35	2	2
1:A:6:THR:O	1:A:42:SER:CB	0.52	2.58	10	6
1:A:71:LYS:HG2	1:A:71:LYS:O	0.52	2.04	7	1
1:A:12:CYS:C	1:A:64:VAL:HG21	0.52	2.25	17	3
1:A:37:TRP:CE3	1:A:61:LEU:HG	0.52	2.39	18	1
1:A:6:THR:HB	1:A:15:ASN:CA	0.52	2.35	2	1
1:A:16:SER:O	1:A:17:HIS:C	0.52	2.48	8	2
1:A:7:CYS:CA	1:A:41:VAL:O	0.52	2.57	6	1
1:A:40:ASN:CG	1:A:79:THR:HG22	0.52	2.25	12	1
1:A:77:VAL:O	1:A:79:THR:N	0.52	2.43	16	5
1:A:15:ASN:O	1:A:16:SER:O	0.52	2.28	8	2
1:A:7:CYS:N	1:A:16:SER:HB2	0.52	2.19	10	2
1:A:5:PHE:C	1:A:6:THR:HG23	0.52	2.25	10	1
1:A:24:PHE:CB	1:A:60:ARG:HG3	0.52	2.35	8	2
1:A:80:ILE:O	1:A:81:PHE:HD1	0.52	1.83	7	2
1:A:5:PHE:CD2	1:A:59:HIS:CE1	0.52	2.97	7	1
1:A:77:VAL:HG22	1:A:79:THR:HG22	0.52	1.79	9	1
1:A:70:ARG:O	1:A:71:LYS:C	0.52	2.47	12	1
1:A:13:TYR:CD2	1:A:14:ASN:ND2	0.52	2.79	8	3
1:A:34:ARG:CG	1:A:35:ARG:N	0.52	2.73	5	8
1:A:66:PHE:CE1	1:A:71:LYS:HE3	0.51	2.39	17	2
1:A:27:PHE:CE1	1:A:37:TRP:HB2	0.51	2.40	19	3
1:A:14:ASN:CG	1:A:22:LEU:HB2	0.51	2.25	2	5
1:A:5:PHE:N	1:A:17:HIS:CB	0.51	2.73	6	7
1:A:38:LEU:O	1:A:41:VAL:HG12	0.51	2.05	2	3
1:A:5:PHE:CB	1:A:59:HIS:NE2	0.51	2.74	7	1
1:A:66:PHE:CE1	1:A:78:PRO:CG	0.51	2.93	19	2
1:A:15:ASN:N	1:A:15:ASN:OD1	0.51	2.43	8	1
1:A:8:CYS:HB3	1:A:42:SER:HB3	0.51	1.82	2	1
1:A:14:ASN:CG	1:A:62:CYS:HB2	0.51	2.25	12	3
1:A:52:THR:O	1:A:53:PHE:CD1	0.51	2.64	3	6
1:A:43:ARG:CG	1:A:43:ARG:O	0.51	2.57	3	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:35:ARG:CA	1:A:38:LEU:HD22	0.51	2.31	7	1
1:A:38:LEU:HD13	1:A:43:ARG:HD2	0.51	1.82	10	1
1:A:31:ALA:C	1:A:34:ARG:HG3	0.51	2.24	13	1
1:A:6:THR:CG2	1:A:15:ASN:O	0.51	2.59	1	3
1:A:8:CYS:N	1:A:16:SER:HB2	0.51	2.21	1	1
1:A:27:PHE:CE2	1:A:34:ARG:CD	0.51	2.93	11	2
1:A:12:CYS:CB	1:A:65:HIS:CE1	0.51	2.93	11	7
1:A:53:PHE:O	1:A:54:GLN:O	0.51	2.28	3	4
1:A:6:THR:C	1:A:8:CYS:N	0.51	2.63	7	1
1:A:6:THR:O	1:A:7:CYS:SG	0.50	2.69	7	1
1:A:27:PHE:CD2	1:A:34:ARG:HD3	0.50	2.42	16	10
1:A:18:ARG:HG3	1:A:19:ASP:N	0.50	2.21	18	1
1:A:15:ASN:HB3	1:A:18:ARG:HG3	0.50	1.82	5	1
1:A:21:ALA:C	1:A:22:LEU:CD2	0.50	2.74	1	2
1:A:12:CYS:CA	1:A:64:VAL:CG2	0.50	2.89	11	4
1:A:20:LYS:O	1:A:20:LYS:CG	0.50	2.59	17	4
1:A:5:PHE:CB	1:A:59:HIS:CE1	0.50	2.94	16	5
1:A:5:PHE:CD1	1:A:53:PHE:HB2	0.50	2.41	9	1
1:A:66:PHE:CE2	1:A:71:LYS:HD3	0.50	2.42	16	1
1:A:6:THR:C	1:A:24:PHE:CE2	0.50	2.85	1	3
1:A:12:CYS:CB	1:A:64:VAL:CG2	0.50	2.90	2	1
1:A:8:CYS:HB3	1:A:41:VAL:C	0.50	2.26	3	5
1:A:34:ARG:O	1:A:38:LEU:HD13	0.50	2.06	7	1
1:A:27:PHE:CZ	1:A:38:LEU:CD2	0.50	2.94	18	2
1:A:71:LYS:HG2	1:A:75:VAL:O	0.50	2.07	19	1
1:A:12:CYS:CB	1:A:64:VAL:HG23	0.50	2.33	2	5
1:A:34:ARG:HD2	1:A:38:LEU:HD11	0.50	1.82	7	1
1:A:6:THR:HG23	1:A:16:SER:HB3	0.50	1.83	7	1
1:A:8:CYS:SG	1:A:81:PHE:CE2	0.50	3.04	7	1
1:A:17:HIS:CD2	1:A:17:HIS:O	0.50	2.65	13	1
1:A:6:THR:OG1	1:A:20:LYS:HA	0.49	2.07	1	1
1:A:5:PHE:N	1:A:17:HIS:H	0.49	2.05	8	2
1:A:13:TYR:O	1:A:22:LEU:HD12	0.49	2.07	2	1
1:A:25:TYR:CE2	1:A:66:PHE:CE2	0.49	2.99	17	2
1:A:25:TYR:CZ	1:A:66:PHE:CE2	0.49	3.00	17	1
1:A:4:GLY:O	1:A:5:PHE:CG	0.49	2.65	1	3
1:A:19:ASP:CG	1:A:21:ALA:H	0.49	2.09	2	2
1:A:13:TYR:CD2	1:A:64:VAL:HG13	0.49	2.43	5	3
1:A:4:GLY:C	1:A:5:PHE:CG	0.49	2.85	19	4
1:A:6:THR:OG1	1:A:20:LYS:CA	0.49	2.60	8	1
1:A:65:HIS:HB3	1:A:81:PHE:CE2	0.49	2.43	15	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:10:PRO:CG	1:A:81:PHE:CD1	0.49	2.96	16	3
1:A:80:ILE:HG22	1:A:81:PHE:CE2	0.49	2.42	15	1
1:A:6:THR:C	1:A:24:PHE:HE2	0.49	2.10	8	3
1:A:77:VAL:HG23	1:A:79:THR:OG1	0.49	2.08	7	3
1:A:5:PHE:HA	1:A:53:PHE:HB2	0.49	1.85	5	1
1:A:5:PHE:HB3	1:A:53:PHE:HB2	0.49	1.82	14	2
1:A:52:THR:O	1:A:53:PHE:CG	0.49	2.66	19	6
1:A:6:THR:HG22	1:A:14:ASN:C	0.49	2.28	8	2
1:A:6:THR:O	1:A:15:ASN:C	0.49	2.51	8	3
1:A:42:SER:OG	1:A:43:ARG:N	0.49	2.46	5	14
1:A:27:PHE:CE2	1:A:38:LEU:CD2	0.49	2.95	18	2
1:A:5:PHE:H	1:A:17:HIS:CB	0.48	2.21	10	4
1:A:19:ASP:OD1	1:A:20:LYS:N	0.48	2.46	7	1
1:A:13:TYR:HD2	1:A:64:VAL:HG13	0.48	1.67	15	1
1:A:73:TYR:CD2	1:A:74:THR:OG1	0.48	2.67	18	1
1:A:66:PHE:CD2	1:A:71:LYS:HG3	0.48	2.43	1	1
1:A:8:CYS:O	1:A:8:CYS:SG	0.48	2.71	12	13
1:A:6:THR:HA	1:A:15:ASN:OD1	0.48	2.08	11	2
1:A:8:CYS:CB	1:A:41:VAL:HA	0.48	2.37	7	1
1:A:42:SER:OG	1:A:53:PHE:CE2	0.48	2.66	11	1
1:A:70:ARG:CG	1:A:72:THR:OG1	0.48	2.62	4	1
1:A:6:THR:O	1:A:14:ASN:O	0.48	2.31	1	1
1:A:6:THR:CA	1:A:16:SER:HA	0.48	2.36	4	2
1:A:15:ASN:OD1	1:A:16:SER:N	0.48	2.46	17	6
1:A:13:TYR:H	1:A:64:VAL:CG2	0.48	2.22	9	2
1:A:9:VAL:N	1:A:15:ASN:HB3	0.48	2.23	8	1
1:A:65:HIS:HB3	1:A:81:PHE:CE1	0.48	2.44	3	1
1:A:9:VAL:H	1:A:15:ASN:CB	0.48	2.21	4	2
1:A:18:ARG:O	1:A:19:ASP:CG	0.48	2.52	9	3
1:A:24:PHE:HA	1:A:61:LEU:O	0.48	2.08	5	3
1:A:14:ASN:HD21	1:A:63:SER:N	0.48	2.05	10	1
1:A:65:HIS:ND1	1:A:81:PHE:HZ	0.48	2.06	19	1
1:A:13:TYR:CA	1:A:64:VAL:CG2	0.48	2.91	4	2
1:A:20:LYS:O	1:A:20:LYS:CD	0.48	2.62	17	3
1:A:12:CYS:HB2	1:A:64:VAL:HB	0.48	1.86	7	1
1:A:65:HIS:O	1:A:80:ILE:CD1	0.48	2.62	13	1
1:A:8:CYS:CB	1:A:41:VAL:C	0.48	2.83	19	3
1:A:9:VAL:CG1	1:A:15:ASN:HA	0.47	2.34	18	5
1:A:43:ARG:O	1:A:43:ARG:CD	0.47	2.61	19	1
1:A:9:VAL:CG1	1:A:15:ASN:CG	0.47	2.82	6	2
1:A:79:THR:HG23	1:A:79:THR:O	0.47	2.09	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:13:TYR:HB3	1:A:14:ASN:HD22	0.47	1.69	2	4
1:A:61:LEU:HD11	1:A:78:PRO:HB2	0.47	1.87	10	2
1:A:33:LEU:HD13	1:A:36:LEU:HD12	0.47	1.85	5	1
1:A:9:VAL:CG2	1:A:12:CYS:N	0.47	2.77	7	1
1:A:5:PHE:H	1:A:17:HIS:HB3	0.47	1.68	3	3
1:A:27:PHE:CZ	1:A:34:ARG:HB2	0.47	2.44	9	2
1:A:14:ASN:ND2	1:A:63:SER:HB2	0.47	2.23	10	2
1:A:70:ARG:O	1:A:70:ARG:CG	0.47	2.62	15	1
1:A:8:CYS:CA	1:A:16:SER:CB	0.47	2.92	2	1
1:A:10:PRO:HG3	1:A:81:PHE:CB	0.47	2.40	7	2
1:A:27:PHE:CZ	1:A:38:LEU:HD23	0.47	2.45	18	2
1:A:6:THR:CB	1:A:24:PHE:CZ	0.47	2.97	1	1
1:A:27:PHE:CD1	1:A:59:HIS:O	0.47	2.68	3	2
1:A:10:PRO:HG3	1:A:81:PHE:CG	0.47	2.45	14	3
1:A:5:PHE:O	1:A:6:THR:HG23	0.47	2.09	10	1
1:A:6:THR:OG1	1:A:20:LYS:N	0.47	2.47	8	2
1:A:5:PHE:HB3	1:A:59:HIS:NE2	0.47	2.25	7	1
1:A:66:PHE:CD1	1:A:71:LYS:CB	0.47	2.98	14	1
1:A:9:VAL:CG1	1:A:15:ASN:ND2	0.46	2.78	17	6
1:A:17:HIS:O	1:A:17:HIS:CD2	0.46	2.67	5	3
1:A:8:CYS:SG	1:A:81:PHE:CZ	0.46	3.08	7	1
1:A:6:THR:C	1:A:15:ASN:C	0.46	2.74	1	1
1:A:77:VAL:HG23	1:A:79:THR:CG2	0.46	2.41	13	2
1:A:63:SER:O	1:A:65:HIS:ND1	0.46	2.48	14	1
1:A:61:LEU:HD12	1:A:78:PRO:CG	0.46	2.34	2	1
1:A:35:ARG:HA	1:A:38:LEU:HD23	0.46	1.88	3	1
1:A:5:PHE:O	1:A:6:THR:HG22	0.46	2.11	14	1
1:A:32:GLU:O	1:A:34:ARG:N	0.46	2.49	1	18
1:A:38:LEU:CD2	1:A:55:PRO:HB3	0.46	2.40	19	2
1:A:15:ASN:OD1	1:A:17:HIS:N	0.46	2.47	15	1
1:A:6:THR:O	1:A:7:CYS:C	0.46	2.53	7	1
1:A:54:GLN:OE1	1:A:56:THR:HG21	0.46	2.11	7	1
1:A:73:TYR:N	1:A:73:TYR:CD1	0.46	2.83	13	1
1:A:19:ASP:C	1:A:21:ALA:N	0.46	2.69	18	1
1:A:13:TYR:CD1	1:A:64:VAL:CG1	0.46	2.98	14	2
1:A:66:PHE:CD2	1:A:71:LYS:CB	0.46	2.98	16	1
1:A:9:VAL:H	1:A:15:ASN:HB3	0.46	1.71	8	1
1:A:38:LEU:HG	1:A:55:PRO:HG2	0.46	1.87	2	1
1:A:71:LYS:HA	1:A:75:VAL:O	0.46	2.10	17	1
1:A:6:THR:O	1:A:9:VAL:HG13	0.46	2.10	2	1
1:A:19:ASP:CG	1:A:22:LEU:CD1	0.46	2.84	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:53:PHE:CD1	1:A:53:PHE:O	0.46	2.68	14	3
1:A:9:VAL:HG11	1:A:15:ASN:ND2	0.46	2.26	19	1
1:A:4:GLY:O	1:A:5:PHE:CD2	0.45	2.69	7	2
1:A:38:LEU:CG	1:A:55:PRO:HB2	0.45	2.38	7	1
1:A:32:GLU:HA	1:A:35:ARG:HD2	0.45	1.88	8	1
1:A:69:GLY:O	1:A:70:ARG:HB2	0.45	2.10	9	2
1:A:13:TYR:CG	1:A:14:ASN:ND2	0.45	2.84	13	2
1:A:35:ARG:CD	1:A:35:ARG:C	0.45	2.84	2	8
1:A:6:THR:C	1:A:16:SER:N	0.45	2.69	4	2
1:A:27:PHE:CZ	1:A:34:ARG:O	0.45	2.69	18	2
1:A:5:PHE:CA	1:A:16:SER:OG	0.45	2.64	1	1
1:A:53:PHE:CD1	1:A:59:HIS:NE2	0.45	2.85	15	3
1:A:53:PHE:O	1:A:59:HIS:CE1	0.45	2.70	10	3
1:A:7:CYS:O	1:A:41:VAL:O	0.45	2.33	6	2
1:A:71:LYS:HE3	1:A:72:THR:H	0.45	1.71	19	1
1:A:15:ASN:ND2	1:A:15:ASN:N	0.45	2.64	14	2
1:A:16:SER:O	1:A:17:HIS:HB3	0.45	2.12	1	1
1:A:27:PHE:CE1	1:A:59:HIS:O	0.45	2.69	3	1
1:A:35:ARG:HD3	1:A:35:ARG:C	0.45	2.32	5	1
1:A:14:ASN:ND2	1:A:62:CYS:HB2	0.45	2.26	6	1
1:A:5:PHE:CB	1:A:53:PHE:HB2	0.45	2.42	14	1
1:A:66:PHE:CD2	1:A:71:LYS:HB3	0.45	2.47	16	1
1:A:6:THR:HG23	1:A:17:HIS:CD2	0.45	2.47	19	1
1:A:6:THR:CG2	1:A:14:ASN:OD1	0.45	2.62	1	1
1:A:33:LEU:O	1:A:36:LEU:HB2	0.45	2.12	7	4
1:A:14:ASN:OD1	1:A:62:CYS:CB	0.45	2.64	2	1
1:A:70:ARG:CG	1:A:70:ARG:O	0.45	2.65	11	1
1:A:8:CYS:CB	1:A:41:VAL:O	0.45	2.63	1	1
1:A:55:PRO:HB3	1:A:59:HIS:CB	0.45	2.41	7	1
1:A:70:ARG:O	1:A:71:LYS:O	0.45	2.35	7	1
1:A:66:PHE:CD2	1:A:71:LYS:CG	0.45	3.00	1	1
1:A:72:THR:O	1:A:73:TYR:CB	0.45	2.63	14	3
1:A:79:THR:C	1:A:80:ILE:HD13	0.45	2.31	6	1
1:A:27:PHE:CE2	1:A:38:LEU:HD22	0.44	2.47	3	1
1:A:38:LEU:HD12	1:A:43:ARG:CZ	0.44	2.42	6	1
1:A:13:TYR:CB	1:A:64:VAL:HG13	0.44	2.37	10	1
1:A:27:PHE:CE2	1:A:34:ARG:HD2	0.44	2.48	11	1
1:A:9:VAL:CG1	1:A:12:CYS:N	0.44	2.78	1	1
1:A:14:ASN:HB3	1:A:22:LEU:CB	0.44	2.42	15	1
1:A:24:PHE:CB	1:A:60:ARG:CG	0.44	2.96	1	1
1:A:32:GLU:C	1:A:34:ARG:N	0.44	2.71	10	16

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:12:CYS:CB	1:A:65:HIS:ND1	0.44	2.80	17	4
1:A:24:PHE:N	1:A:24:PHE:CD1	0.44	2.86	10	1
1:A:71:LYS:O	1:A:72:THR:C	0.44	2.55	19	1
1:A:6:THR:CG2	1:A:14:ASN:CB	0.44	2.90	2	1
1:A:32:GLU:O	1:A:35:ARG:N	0.44	2.51	2	14
1:A:6:THR:C	1:A:9:VAL:HG12	0.44	2.30	7	1
1:A:54:GLN:CD	1:A:56:THR:HG1	0.44	2.16	7	1
1:A:16:SER:O	1:A:18:ARG:HB2	0.44	2.13	8	1
1:A:38:LEU:HG	1:A:55:PRO:CG	0.44	2.42	7	1
1:A:38:LEU:HD13	1:A:43:ARG:CD	0.44	2.43	10	1
1:A:7:CYS:C	1:A:9:VAL:N	0.44	2.68	14	4
1:A:13:TYR:CD1	1:A:64:VAL:HG13	0.44	2.47	14	1
1:A:81:PHE:CD1	1:A:81:PHE:OXT	0.44	2.71	6	1
1:A:13:TYR:CB	1:A:14:ASN:ND2	0.44	2.81	7	1
1:A:13:TYR:H	1:A:64:VAL:HG21	0.44	1.73	9	1
1:A:27:PHE:CZ	1:A:37:TRP:HB2	0.44	2.47	12	1
1:A:5:PHE:C	1:A:5:PHE:CD1	0.44	2.90	1	2
1:A:6:THR:HG23	1:A:17:HIS:NE2	0.44	2.28	19	1
1:A:13:TYR:HB3	1:A:62:CYS:SG	0.44	2.53	4	2
1:A:22:LEU:H	1:A:22:LEU:CD2	0.44	2.12	14	1
1:A:5:PHE:CA	1:A:16:SER:CA	0.43	2.96	2	2
1:A:7:CYS:CA	1:A:41:VAL:HG22	0.43	2.41	3	1
1:A:54:GLN:HG3	1:A:56:THR:HG22	0.43	1.88	5	1
1:A:9:VAL:CG2	1:A:12:CYS:H	0.43	2.26	7	1
1:A:58:GLY:O	1:A:60:ARG:HD3	0.43	2.13	7	1
1:A:9:VAL:HB	1:A:15:ASN:CB	0.43	2.40	8	1
1:A:68:GLY:O	1:A:69:GLY:C	0.43	2.57	4	1
1:A:7:CYS:O	1:A:8:CYS:HB3	0.43	2.13	6	1
1:A:62:CYS:C	1:A:65:HIS:NE2	0.43	2.72	10	1
1:A:14:ASN:HB2	1:A:19:ASP:OD2	0.43	2.14	14	1
1:A:7:CYS:SG	1:A:14:ASN:O	0.43	2.76	19	1
1:A:61:LEU:CD2	1:A:78:PRO:HB2	0.43	2.38	19	1
1:A:9:VAL:HG23	1:A:12:CYS:HB3	0.43	1.90	3	2
1:A:10:PRO:CG	1:A:81:PHE:CG	0.43	3.01	1	1
1:A:5:PHE:HB2	1:A:59:HIS:NE2	0.43	2.28	2	2
1:A:24:PHE:CD2	1:A:60:ARG:HG3	0.43	2.48	5	1
1:A:14:ASN:HD22	1:A:62:CYS:HB2	0.43	1.72	6	1
1:A:19:ASP:CG	1:A:20:LYS:N	0.43	2.71	14	1
1:A:40:ASN:HB3	1:A:79:THR:CG2	0.43	2.44	19	1
1:A:4:GLY:HA2	1:A:20:LYS:CG	0.43	2.44	2	1
1:A:6:THR:OG1	1:A:15:ASN:O	0.43	2.27	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:42:SER:O	1:A:43:ARG:C	0.43	2.55	10	1
1:A:27:PHE:O	1:A:28:PRO:O	0.43	2.37	14	12
1:A:42:SER:O	1:A:43:ARG:HG3	0.43	2.13	19	4
1:A:33:LEU:O	1:A:33:LEU:HD12	0.43	2.13	5	1
1:A:69:GLY:O	1:A:70:ARG:HG2	0.43	2.14	11	1
1:A:33:LEU:HD22	1:A:76:ARG:NH2	0.43	2.28	12	1
1:A:24:PHE:CD2	1:A:60:ARG:CZ	0.43	3.02	15	1
1:A:10:PRO:HG3	1:A:81:PHE:CD1	0.43	2.49	16	1
1:A:5:PHE:CA	1:A:16:SER:CB	0.42	2.94	2	3
1:A:6:THR:N	1:A:16:SER:HB2	0.42	2.27	7	1
1:A:7:CYS:CB	1:A:62:CYS:SG	0.42	3.08	6	1
1:A:17:HIS:CD2	1:A:18:ARG:CG	0.42	3.01	6	1
1:A:66:PHE:CD1	1:A:71:LYS:HB3	0.42	2.49	14	1
1:A:4:GLY:C	1:A:5:PHE:CD1	0.42	2.92	15	1
1:A:60:ARG:N	1:A:60:ARG:CD	0.42	2.81	7	1
1:A:53:PHE:O	1:A:53:PHE:CG	0.42	2.72	11	1
1:A:9:VAL:CG2	1:A:12:CYS:CB	0.42	2.97	3	1
1:A:10:PRO:HG2	1:A:81:PHE:CG	0.42	2.49	4	1
1:A:66:PHE:CE2	1:A:71:LYS:CE	0.42	3.01	11	1
1:A:54:GLN:NE2	1:A:56:THR:OG1	0.42	2.52	4	1
1:A:34:ARG:CD	1:A:34:ARG:C	0.42	2.88	5	1
1:A:53:PHE:CD1	1:A:53:PHE:C	0.42	2.93	5	1
1:A:38:LEU:HD22	1:A:55:PRO:HB3	0.42	1.91	19	2
1:A:25:TYR:CD2	1:A:66:PHE:CE2	0.42	3.07	10	1
1:A:67:GLN:NE2	1:A:75:VAL:HG23	0.42	2.29	16	1
1:A:43:ARG:O	1:A:43:ARG:HG3	0.42	2.12	3	1
1:A:66:PHE:CZ	1:A:71:LYS:NZ	0.42	2.88	8	1
1:A:8:CYS:HB2	1:A:42:SER:N	0.42	2.28	17	1
1:A:5:PHE:H	1:A:16:SER:C	0.42	2.17	16	2
1:A:61:LEU:HD21	1:A:78:PRO:HB2	0.42	1.90	16	1
1:A:24:PHE:CB	1:A:60:ARG:NE	0.42	2.83	16	3
1:A:12:CYS:CA	1:A:64:VAL:HG23	0.42	2.44	11	1
1:A:71:LYS:O	1:A:71:LYS:CE	0.42	2.68	18	1
1:A:8:CYS:HA	1:A:15:ASN:OD1	0.41	2.14	1	1
1:A:15:ASN:HB3	1:A:18:ARG:HG2	0.41	1.90	5	1
1:A:60:ARG:CD	1:A:60:ARG:N	0.41	2.83	2	1
1:A:32:GLU:CD	1:A:36:LEU:HD11	0.41	2.36	9	2
1:A:67:GLN:O	1:A:75:VAL:HG21	0.41	2.15	17	1
1:A:38:LEU:CD1	1:A:43:ARG:O	0.41	2.68	18	1
1:A:13:TYR:CA	1:A:64:VAL:HG22	0.41	2.44	4	2
1:A:7:CYS:HA	1:A:41:VAL:O	0.41	2.15	6	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:5:PHE:O	1:A:6:THR:HB	0.41	2.15	9	2
1:A:66:PHE:CD1	1:A:78:PRO:HG3	0.41	2.49	13	1
1:A:70:ARG:HG3	1:A:70:ARG:O	0.41	2.15	1	1
1:A:15:ASN:OD1	1:A:18:ARG:NE	0.41	2.52	4	1
1:A:27:PHE:CE2	1:A:34:ARG:HG2	0.41	2.51	4	1
1:A:5:PHE:CA	1:A:17:HIS:HB2	0.41	2.45	15	1
1:A:79:THR:O	1:A:79:THR:OG1	0.41	2.39	18	1
1:A:7:CYS:SG	1:A:9:VAL:CG1	0.41	3.08	2	1
1:A:13:TYR:N	1:A:64:VAL:HG23	0.41	2.30	7	2
1:A:24:PHE:CD2	1:A:60:ARG:HD3	0.41	2.51	17	1
1:A:36:LEU:HD13	1:A:76:ARG:HH22	0.41	1.76	6	1
1:A:5:PHE:C	1:A:17:HIS:HB3	0.41	2.36	9	1
1:A:11:GLY:O	1:A:12:CYS:O	0.41	2.38	16	1
1:A:19:ASP:C	1:A:21:ALA:H	0.41	2.19	18	1
1:A:8:CYS:HA	1:A:16:SER:CB	0.41	2.46	2	1
1:A:14:ASN:HD22	1:A:62:CYS:CB	0.41	2.29	6	1
1:A:65:HIS:CD2	1:A:65:HIS:N	0.41	2.88	7	1
1:A:52:THR:OG1	1:A:53:PHE:CD2	0.41	2.71	10	1
1:A:19:ASP:OD1	1:A:21:ALA:N	0.41	2.48	14	1
1:A:18:ARG:HD3	1:A:19:ASP:CB	0.41	2.46	4	1
1:A:65:HIS:HB3	1:A:81:PHE:CZ	0.41	2.50	6	1
1:A:8:CYS:O	1:A:65:HIS:CE1	0.41	2.73	7	1
1:A:58:GLY:O	1:A:60:ARG:CD	0.41	2.68	7	1
1:A:70:ARG:O	1:A:71:LYS:HB2	0.41	2.16	15	1
1:A:8:CYS:HB2	1:A:41:VAL:C	0.41	2.36	19	1
1:A:13:TYR:C	1:A:14:ASN:ND2	0.41	2.73	7	1
1:A:25:TYR:O	1:A:60:ARG:CA	0.41	2.69	7	1
1:A:5:PHE:O	1:A:6:THR:OG1	0.41	2.39	10	1
1:A:6:THR:HG22	1:A:17:HIS:CG	0.41	2.51	10	1
1:A:41:VAL:CB	1:A:61:LEU:HD22	0.41	2.45	13	1
1:A:27:PHE:HD2	1:A:34:ARG:HD3	0.41	1.75	18	1
1:A:5:PHE:CE1	1:A:57:THR:HG21	0.40	2.51	5	1
1:A:10:PRO:HG3	1:A:81:PHE:HB3	0.40	1.94	10	1
1:A:15:ASN:CB	1:A:18:ARG:CD	0.40	3.00	17	1
1:A:40:ASN:CB	1:A:79:THR:HG23	0.40	2.46	19	1
1:A:65:HIS:O	1:A:78:PRO:CA	0.40	2.69	19	1
1:A:24:PHE:CD1	1:A:24:PHE:N	0.40	2.90	3	2
1:A:24:PHE:CB	1:A:60:ARG:CD	0.40	2.99	4	1
1:A:67:GLN:CD	1:A:67:GLN:N	0.40	2.74	8	1
1:A:18:ARG:O	1:A:18:ARG:CG	0.40	2.69	11	1
1:A:8:CYS:N	1:A:16:SER:H	0.40	2.14	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:6:THR:N	1:A:17:HIS:HB3	0.40	2.31	3	2
1:A:6:THR:OG1	1:A:53:PHE:CD2	0.40	2.71	5	1
1:A:41:VAL:HG22	1:A:61:LEU:CD2	0.40	2.45	5	1
1:A:5:PHE:CD1	1:A:53:PHE:CB	0.40	3.04	9	1
1:A:55:PRO:CB	1:A:59:HIS:HB2	0.40	2.46	7	1
1:A:14:ASN:HD21	1:A:63:SER:H	0.40	1.59	12	1
1:A:6:THR:N	1:A:16:SER:OG	0.40	2.55	13	1
1:A:19:ASP:O	1:A:20:LYS:HG3	0.40	2.17	15	1
1:A:24:PHE:CE2	1:A:60:ARG:NH2	0.40	2.89	15	1
1:A:6:THR:HB	1:A:53:PHE:CE2	0.40	2.52	5	1
1:A:16:SER:O	1:A:18:ARG:N	0.40	2.54	8	1
1:A:13:TYR:HB3	1:A:63:SER:HB2	0.40	1.94	13	1
1:A:27:PHE:CE1	1:A:37:TRP:CB	0.40	3.04	18	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	69/81 (85%)	40±3 (59±4%)	15±3 (22±4%)	13±4 (19±5%)	<b>0</b>   <b>2</b>
All	All	1311/1539 (85%)	767 (59%)	289 (22%)	255 (19%)	<b>0</b>   <b>2</b>

All 32 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	28	PRO	19
1	A	42	SER	19
1	A	63	SER	19
1	A	64	VAL	16
1	A	78	PRO	16
1	A	11	GLY	15
1	A	12	CYS	15
1	A	6	THR	14
1	A	68	GLY	11

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Mol	Chain	Res	Type	Models (Total)
1	A	54	GLN	11
1	A	71	LYS	8
1	A	74	THR	8
1	A	19	ASP	8
1	A	70	ARG	8
1	A	22	LEU	7
1	A	13	TYR	6
1	A	5	PHE	5
1	A	16	SER	5
1	A	18	ARG	5
1	A	43	ARG	5
1	A	73	TYR	5
1	A	7	CYS	4
1	A	53	PHE	4
1	A	72	THR	4
1	A	8	CYS	3
1	A	17	HIS	3
1	A	58	GLY	3
1	A	69	GLY	3
1	A	52	THR	2
1	A	4	GLY	2
1	A	66	PHE	1
1	A	20	LYS	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	63/70 (90%)	31±3 (48±4%)	32±3 (52±4%)	<b>0</b> <b>1</b>
All	All	1197/1330 (90%)	580 (48%)	617 (52%)	<b>0</b> <b>1</b>

All 57 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	14	ASN	19
1	A	23	HIS	19

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Mol	Chain	Res	Type	Models (Total)
1	A	26	THR	19
1	A	29	LYS	19
1	A	30	ASP	19
1	A	33	LEU	19
1	A	34	ARG	19
1	A	35	ARG	19
1	A	40	ASN	19
1	A	59	HIS	19
1	A	63	SER	19
1	A	74	THR	19
1	A	39	LYS	18
1	A	42	SER	18
1	A	65	HIS	17
1	A	22	LEU	16
1	A	41	VAL	16
1	A	61	LEU	16
1	A	13	TYR	15
1	A	79	THR	15
1	A	67	GLN	15
1	A	62	CYS	15
1	A	20	LYS	14
1	A	27	PHE	14
1	A	60	ARG	14
1	A	71	LYS	14
1	A	43	ARG	13
1	A	73	TYR	13
1	A	70	ARG	12
1	A	12	CYS	10
1	A	18	ARG	10
1	A	5	PHE	8
1	A	6	THR	8
1	A	81	PHE	8
1	A	56	THR	7
1	A	77	VAL	7
1	A	9	VAL	7
1	A	15	ASN	6
1	A	75	VAL	6
1	A	76	ARG	6
1	A	80	ILE	6
1	A	17	HIS	6
1	A	19	ASP	6
1	A	72	THR	6

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Mol	Chain	Res	Type	Models (Total)
1	A	52	THR	5
1	A	54	GLN	5
1	A	7	CYS	4
1	A	64	VAL	2
1	A	38	LEU	2
1	A	28	PRO	2
1	A	16	SER	1
1	A	24	PHE	1
1	A	53	PHE	1
1	A	8	CYS	1
1	A	25	TYR	1
1	A	32	GLU	1
1	A	66	PHE	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 [i](#)

Of 1 ligands modelled in this entry, 1 is monoatomic - leaving 0 for Mogul analysis.

### 6.7 Other polymers [i](#)

There are no such molecules in this entry.

### 6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.



## 7 Chemical shift validation [i](#)

The completeness of assignment taking into account all chemical shift lists is 87% for the well-defined parts and 86% for the entire structure.

### 7.1 Chemical shift list 1

File name: working\_cs.cif

Chemical shift list name: *assigned\_chem\_shift\_list\_1*

#### 7.1.1 Bookkeeping [i](#)

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

Total number of shifts	948
Number of shifts mapped to atoms	948
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	17

#### 7.1.2 Chemical shift referencing [i](#)

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction $\pm$ precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	79	4.75 $\pm$ 0.10	Should be applied
$^{13}\text{C}_\beta$	72	4.91 $\pm$ 0.31	Should be applied
$^{13}\text{C}'$	64	4.70 $\pm$ 0.10	Should be applied
$^{15}\text{N}$	69	3.83 $\pm$ 0.47	Should be applied

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

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 87%, i.e. 864 atoms were assigned a chemical shift out of a possible 994. 0 out of 10 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	$^1\text{H}$	$^{13}\text{C}$	$^{15}\text{N}$
Backbone	324/347 (93%)	138/141 (98%)	125/140 (89%)	61/66 (92%)
Sidechain	437/517 (85%)	295/334 (88%)	137/153 (90%)	5/30 (17%)

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	Total	<sup>1</sup> H	<sup>13</sup> C	<sup>15</sup> N
Aromatic	103/130 (79%)	52/64 (81%)	49/58 (84%)	2/8 (25%)
Overall	864/994 (87%)	485/539 (90%)	311/351 (89%)	68/104 (65%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 86%, i.e. 948 atoms were assigned a chemical shift out of a possible 1098. 0 out of 11 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	<sup>1</sup> H	<sup>13</sup> C	<sup>15</sup> N
Backbone	369/403 (92%)	157/165 (95%)	143/162 (88%)	69/76 (91%)
Sidechain	472/555 (85%)	319/360 (89%)	148/165 (90%)	5/30 (17%)
Aromatic	107/140 (76%)	54/69 (78%)	51/63 (81%)	2/8 (25%)
Overall	948/1098 (86%)	530/594 (89%)	342/390 (88%)	76/114 (67%)

#### 7.1.4 Statistically unusual chemical shifts

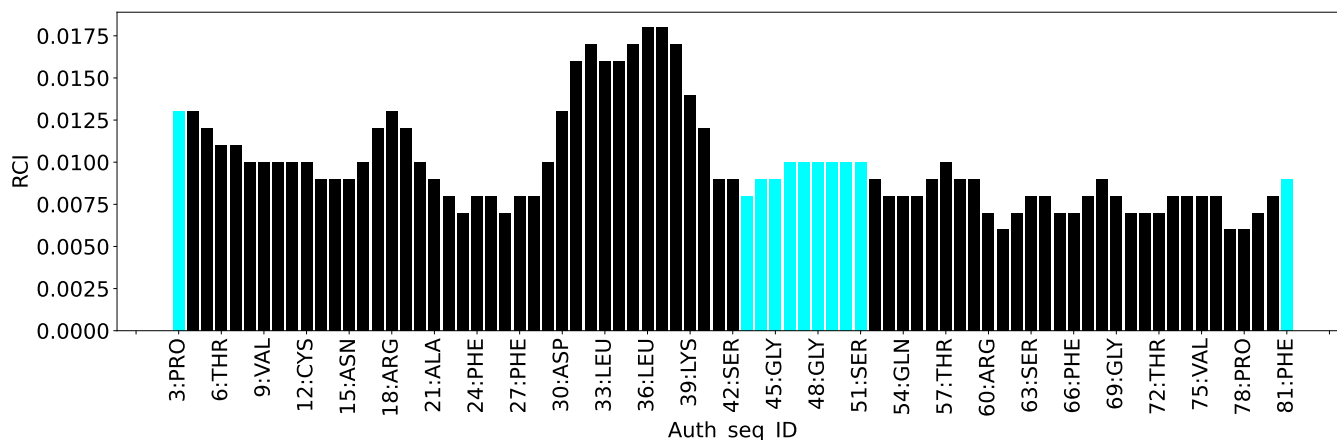
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	71	LYS	HB3	-0.53	0.46 – 3.04	-8.8
1	A	78	PRO	CD	42.71	45.11 – 55.58	-7.3
1	A	71	LYS	CE	35.79	37.57 – 46.21	-7.1
1	A	28	PRO	HD2	1.29	1.93 – 5.38	-6.8
1	A	78	PRO	HD2	1.36	1.93 – 5.38	-6.6
1	A	78	PRO	CG	20.20	21.69 – 32.72	-6.3
1	A	71	LYS	CG	18.16	19.35 – 30.45	-6.1
1	A	71	LYS	HB2	0.34	0.58 – 2.97	-6.0
1	A	78	PRO	HB3	-0.10	0.25 – 3.76	-6.0
1	A	60	ARG	CD	38.02	38.57 – 47.75	-5.6
1	A	29	LYS	CE	37.10	37.57 – 46.21	-5.5
1	A	28	PRO	CD	44.59	45.11 – 55.58	-5.5
1	A	20	LYS	CE	37.15	37.57 – 46.21	-5.5
1	A	35	ARG	CD	38.36	38.57 – 47.75	-5.2
1	A	43	ARG	CD	38.44	38.57 – 47.75	-5.1
1	A	54	GLN	CG	28.22	28.36 – 39.21	-5.1
1	A	76	ARG	CD	38.53	38.57 – 47.75	-5.0

### 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	1766
Intra-residue ( $ i-j =0$ )	0
Sequential ( $ i-j =1$ )	739
Medium range ( $ i-j >1$ and $ i-j <5$ )	356
Long range ( $ i-j \geq 5$ )	671
Inter-chain	0
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	0
Number of restraints per residue	21.5
Number of long range restraints per residue <sup>1</sup>	8.2

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

### 8.2 Residual restraint violations

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

#### 8.2.1 Average number of distance violations per model

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

Bins (Å)	Average number of violations per model	Max (Å)
0.1-0.2 (Small)	67.8	0.2
0.2-0.5 (Medium)	44.1	0.46
>0.5 (Large)	None	None

### 8.2.2 Average number of dihedral-angle violations per model

Dihedral-angle violations less than  $1^\circ$  are not included in the calculation. There are no dihedral-angle violations

## 9 Distance violation analysis i

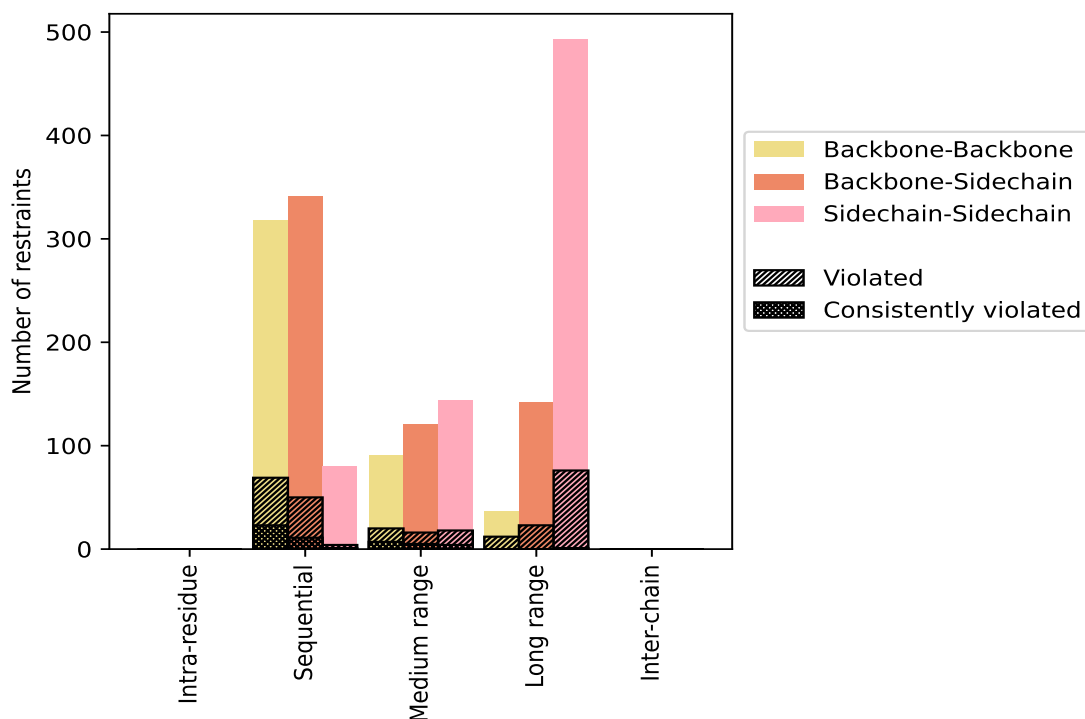
### 9.1 Summary of distance violations i

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

Restrains type	Count	% <sup>1</sup>	Violated <sup>3</sup>			Consistently Violated <sup>4</sup>		
			Count	% <sup>2</sup>	% <sup>1</sup>	Count	% <sup>2</sup>	% <sup>1</sup>
<b>Intra-residue (<math> i-j =0</math>)</b>	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
<b>Sequential (<math> i-j =1</math>)</b>	739	41.8	123	16.6	7.0	35	4.7	2.0
Backbone-Backbone	318	18.0	69	21.7	3.9	23	7.2	1.3
Backbone-Sidechain	341	19.3	50	14.7	2.8	11	3.2	0.6
Sidechain-Sidechain	80	4.5	4	5.0	0.2	1	1.2	0.1
<b>Medium range (<math> i-j &gt;1</math> &amp; <math> i-j &lt;5</math>)</b>	356	20.2	54	15.2	3.1	16	4.5	0.9
Backbone-Backbone	91	5.2	20	22.0	1.1	7	7.7	0.4
Backbone-Sidechain	121	6.9	16	13.2	0.9	5	4.1	0.3
Sidechain-Sidechain	144	8.2	18	12.5	1.0	4	2.8	0.2
<b>Long range (<math> i-j \geq 5</math>)</b>	671	38.0	111	16.5	6.3	1	0.1	0.1
Backbone-Backbone	36	2.0	12	33.3	0.7	0	0.0	0.0
Backbone-Sidechain	142	8.0	23	16.2	1.3	0	0.0	0.0
Sidechain-Sidechain	493	27.9	76	15.4	4.3	1	0.2	0.1
<b>Inter-chain</b>	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
<b>Hydrogen bond</b>	0	0.0	0	0.0	0.0	0	0.0	0.0
<b>Disulfide bond</b>	0	0.0	0	0.0	0.0	0	0.0	0.0
<b>Total</b>	1766	100.0	288	16.3	16.3	52	2.9	2.9
Backbone-Backbone	445	25.2	101	22.7	5.7	30	6.7	1.7
Backbone-Sidechain	604	34.2	89	14.7	5.0	16	2.6	0.9
Sidechain-Sidechain	717	40.6	98	13.7	5.5	6	0.8	0.3

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

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



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

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

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

Model ID	Number of violations						Mean (Å)	Max (Å)	SD <sup>6</sup> (Å)	Median (Å)
	IR <sup>1</sup>	SQ <sup>2</sup>	MR <sup>3</sup>	LR <sup>4</sup>	IC <sup>5</sup>	Total				
1	0	57	22	36	0	115	0.2	0.45	0.08	0.17
2	0	65	25	44	0	134	0.19	0.45	0.08	0.16
3	0	62	30	23	0	115	0.2	0.45	0.09	0.19
4	0	64	27	43	0	134	0.19	0.45	0.08	0.16
5	0	64	27	24	0	115	0.2	0.46	0.08	0.18
6	0	57	27	29	0	113	0.2	0.44	0.08	0.17
7	0	55	31	33	0	119	0.2	0.45	0.08	0.17
8	0	62	29	41	0	132	0.19	0.45	0.08	0.16
9	0	60	29	14	0	103	0.2	0.45	0.08	0.17
10	0	57	26	25	0	108	0.2	0.45	0.08	0.19

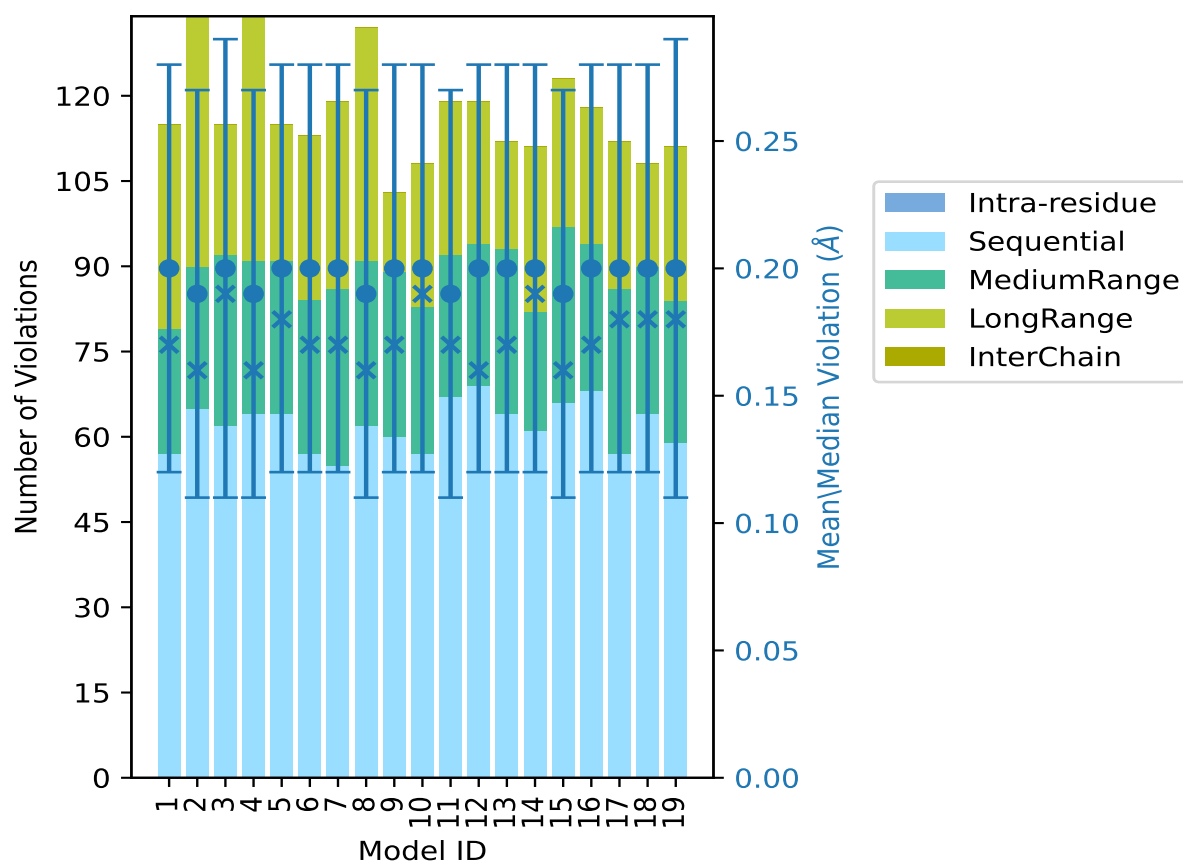
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Model ID	Number of violations					Total	Mean (Å)	Max (Å)	SD <sup>6</sup> (Å)	Median (Å)
	IR <sup>1</sup>	SQ <sup>2</sup>	MR <sup>3</sup>	LR <sup>4</sup>	IC <sup>5</sup>					
11	0	67	25	27	0	119	0.19	0.45	0.08	0.17
12	0	69	25	25	0	119	0.2	0.45	0.08	0.16
13	0	64	29	19	0	112	0.2	0.45	0.08	0.17
14	0	61	21	29	0	111	0.2	0.45	0.08	0.19
15	0	66	31	26	0	123	0.19	0.45	0.08	0.16
16	0	68	26	24	0	118	0.2	0.45	0.08	0.17
17	0	57	29	26	0	112	0.2	0.45	0.08	0.18
18	0	64	26	18	0	108	0.2	0.45	0.08	0.18
19	0	59	25	27	0	111	0.2	0.45	0.09	0.18

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

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



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



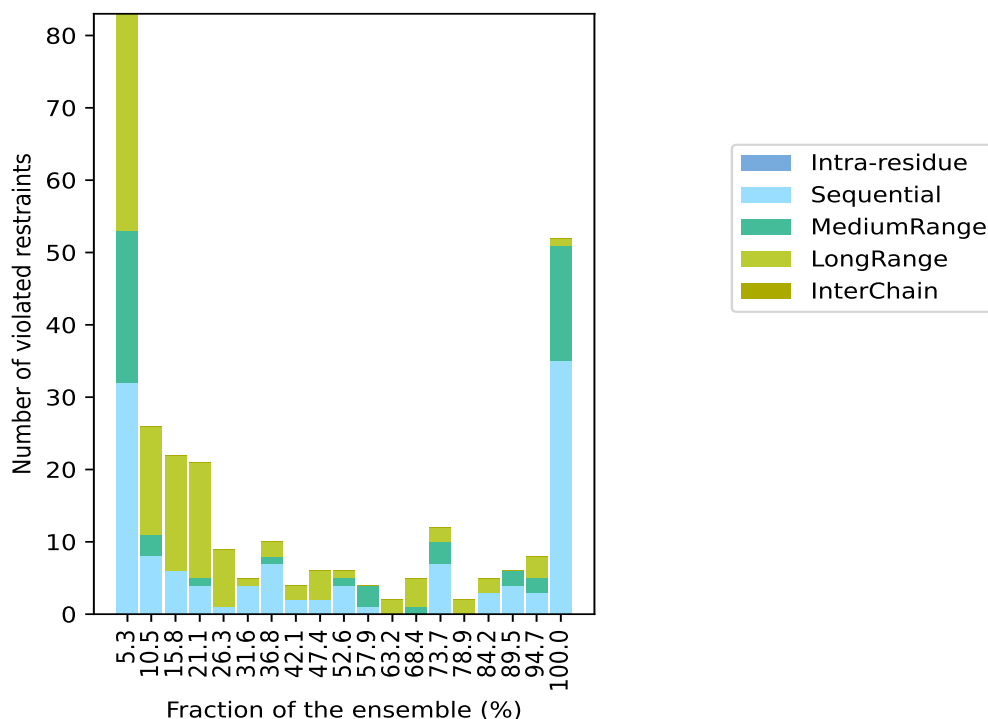
### 9.3 Distance violation statistics for the ensemble

Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 1478(IR:0, SQ:616, MR:302, LR:560, IC:0) restraints are not violated in the ensemble.

Number of violated restraints						Fraction of the ensemble	
IR <sup>1</sup>	SQ <sup>2</sup>	MR <sup>3</sup>	LR <sup>4</sup>	IC <sup>5</sup>	Total	Count <sup>6</sup>	%
0	32	21	30	0	83	1	5.3
0	8	3	15	0	26	2	10.5
0	6	0	16	0	22	3	15.8
0	4	1	16	0	21	4	21.1
0	1	0	8	0	9	5	26.3
0	4	0	1	0	5	6	31.6
0	7	1	2	0	10	7	36.8
0	2	0	2	0	4	8	42.1
0	2	0	4	0	6	9	47.4
0	4	1	1	0	6	10	52.6
0	1	3	0	0	4	11	57.9
0	0	0	2	0	2	12	63.2
0	0	1	4	0	5	13	68.4
0	7	3	2	0	12	14	73.7
0	0	0	2	0	2	15	78.9
0	3	0	2	0	5	16	84.2
0	4	2	0	0	6	17	89.5
0	3	2	3	0	8	18	94.7
0	35	16	1	0	52	19	100.0

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

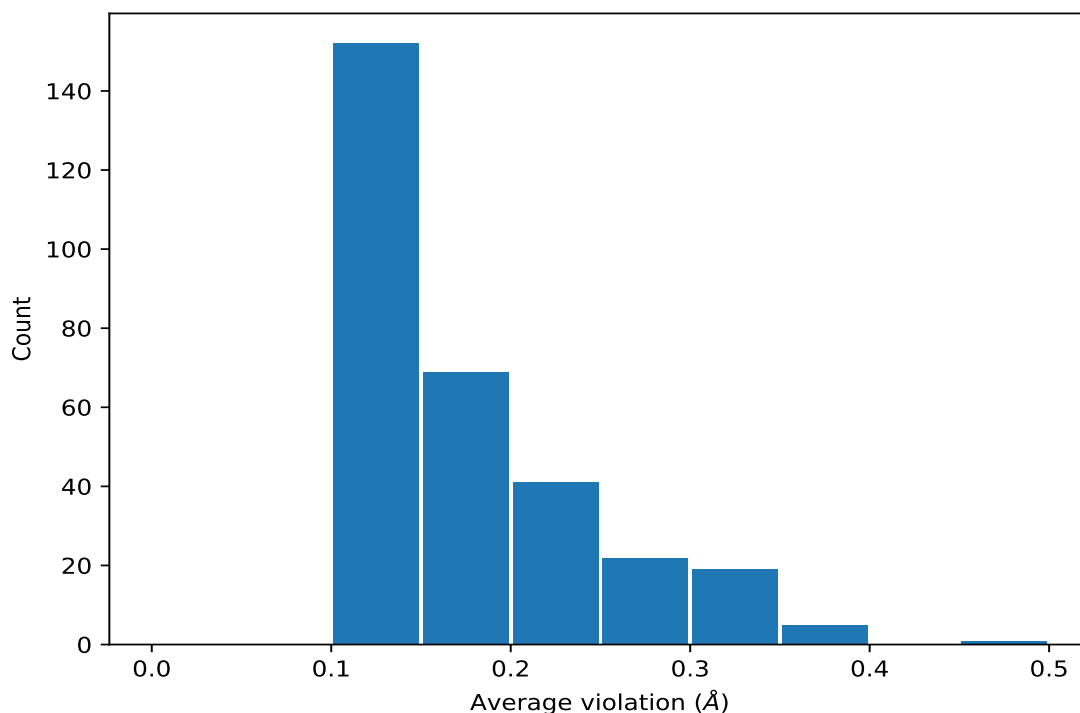
### 9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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

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

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



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

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

Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,585)	1:33:A:LEU:H	1:32:A:GLU:HB2	19	0.45	0.0	0.45
(1,330)	1:37:A:TRP:HA	1:38:A:LEU:H	19	0.38	0.01	0.38
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD21	19	0.37	0.01	0.37
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD22	19	0.37	0.01	0.37
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD23	19	0.37	0.01	0.37
(1,57)	1:32:A:GLU:HA	1:36:A:LEU:H	19	0.37	0.04	0.37
(1,862)	1:38:A:LEU:HA	1:39:A:LYS:H	19	0.35	0.01	0.35
(1,1149)	1:27:A:PHE:HA	1:28:A:PRO:HD3	19	0.35	0.02	0.35
(1,266)	1:38:A:LEU:HB3	1:35:A:ARG:HA	19	0.34	0.02	0.34
(1,1318)	1:25:A:TYR:H	1:24:A:PHE:HA	19	0.34	0.01	0.34
(1,523)	1:56:A:THR:HA	1:57:A:THR:H	19	0.34	0.01	0.34
(1,339)	1:42:A:SER:HB2	1:43:A:ARG:H	19	0.34	0.01	0.34
(1,1303)	1:42:A:SER:HA	1:43:A:ARG:H	19	0.33	0.02	0.34
(1,54)	1:32:A:GLU:HA	1:33:A:LEU:H	19	0.32	0.01	0.32
(1,1261)	1:33:A:LEU:H	1:32:A:GLU:HA	19	0.32	0.01	0.32
(1,1375)	1:50:A:PHE:HA	1:51:A:SER:H	19	0.32	0.01	0.32

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,832)	1:34:A:ARG:H	1:32:A:GLU:HA	19	0.31	0.02	0.3
(1,1391)	1:32:A:GLU:HA	1:34:A:ARG:H	19	0.31	0.02	0.3
(1,125)	1:36:A:LEU:HA	1:39:A:LYS:HG2	19	0.3	0.01	0.3
(1,1329)	1:24:A:PHE:H	1:23:A:HIS:HA	19	0.29	0.02	0.29
(1,423)	1:28:A:PRO:HD3	1:27:A:PHE:HB2	19	0.29	0.06	0.31
(1,831)	1:34:A:ARG:H	1:36:A:LEU:H	19	0.26	0.01	0.26
(1,1548)	1:57:A:THR:HG21	1:59:A:HIS:HE1	19	0.26	0.0	0.26
(1,1548)	1:57:A:THR:HG22	1:59:A:HIS:HE1	19	0.26	0.0	0.26
(1,1548)	1:57:A:THR:HG23	1:59:A:HIS:HE1	19	0.26	0.0	0.26
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG21	19	0.26	0.0	0.26
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG22	19	0.26	0.0	0.26
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG23	19	0.26	0.0	0.26
(1,654)	1:48:A:GLY:H	1:47:A:SER:HB2	19	0.25	0.01	0.25
(1,653)	1:48:A:GLY:H	1:47:A:SER:HB2	19	0.25	0.01	0.25
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG21	19	0.24	0.0	0.24
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG22	19	0.24	0.0	0.24
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG23	19	0.24	0.0	0.24
(1,1640)	1:57:A:THR:HG21	1:59:A:HIS:HE1	19	0.24	0.0	0.24
(1,1640)	1:57:A:THR:HG22	1:59:A:HIS:HE1	19	0.24	0.0	0.24
(1,1640)	1:57:A:THR:HG23	1:59:A:HIS:HE1	19	0.24	0.0	0.24
(1,155)	1:47:A:SER:HA	1:48:A:GLY:H	19	0.24	0.01	0.24
(1,652)	1:48:A:GLY:H	1:47:A:SER:HA	19	0.24	0.01	0.24
(1,640)	1:36:A:LEU:H	1:34:A:ARG:H	19	0.24	0.01	0.24
(1,1148)	1:27:A:PHE:HA	1:28:A:PRO:HD2	19	0.24	0.03	0.25
(1,1334)	1:36:A:LEU:H	1:34:A:ARG:H	19	0.24	0.01	0.24
(1,174)	1:33:A:LEU:HG	1:28:A:PRO:HG2	19	0.23	0.03	0.23
(1,297)	1:39:A:LYS:HG2	1:36:A:LEU:HA	19	0.2	0.01	0.2
(1,162)	1:31:A:ALA:HB1	1:32:A:GLU:H	19	0.2	0.02	0.2
(1,162)	1:31:A:ALA:HB2	1:32:A:GLU:H	19	0.2	0.02	0.2
(1,162)	1:31:A:ALA:HB3	1:32:A:GLU:H	19	0.2	0.02	0.2
(1,1266)	1:43:A:ARG:H	1:42:A:SER:H	19	0.2	0.06	0.18
(1,1459)	1:26:A:THR:H	1:25:A:TYR:HA	19	0.2	0.01	0.19
(1,53)	1:32:A:GLU:HA	1:34:A:ARG:H	19	0.19	0.02	0.2
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB1	19	0.19	0.01	0.19
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB2	19	0.19	0.01	0.19
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB3	19	0.19	0.01	0.19
(1,586)	1:33:A:LEU:H	1:32:A:GLU:HA	19	0.18	0.01	0.18
(1,1488)	1:15:A:ASN:H	1:14:A:ASN:HA	19	0.18	0.03	0.18
(1,489)	1:39:A:LYS:HB3	1:36:A:LEU:HA	19	0.17	0.03	0.18
(1,900)	1:22:A:LEU:H	1:21:A:ALA:H	19	0.17	0.04	0.16
(1,1177)	1:21:A:ALA:H	1:22:A:LEU:H	19	0.17	0.04	0.16
(1,596)	1:43:A:ARG:H	1:42:A:SER:HA	19	0.17	0.02	0.16

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,224)	1:28:A:PRO:HA	1:29:A:LYS:H	19	0.16	0.01	0.16
(1,160)	1:31:A:ALA:HB1	1:32:A:GLU:HA	19	0.16	0.0	0.16
(1,160)	1:31:A:ALA:HB2	1:32:A:GLU:HA	19	0.16	0.0	0.16
(1,160)	1:31:A:ALA:HB3	1:32:A:GLU:HA	19	0.16	0.0	0.16
(1,598)	1:43:A:ARG:H	1:42:A:SER:HB2	19	0.16	0.01	0.16
(1,1216)	1:35:A:ARG:HA	1:38:A:LEU:HB3	19	0.16	0.02	0.16
(1,519)	1:67:A:GLN:HA	1:68:A:GLY:H	19	0.13	0.02	0.13
(1,768)	1:68:A:GLY:H	1:67:A:GLN:HA	19	0.13	0.02	0.13
(1,946)	1:67:A:GLN:HA	1:68:A:GLY:H	19	0.13	0.02	0.13
(1,975)	1:68:A:GLY:H	1:67:A:GLN:HA	19	0.13	0.02	0.13
(1,381)	1:28:A:PRO:HD2	1:37:A:TRP:HZ3	18	0.21	0.04	0.22
(1,870)	1:42:A:SER:HB3	1:16:A:SER:HB2	18	0.2	0.04	0.22
(1,968)	1:16:A:SER:HB2	1:42:A:SER:HB3	18	0.2	0.04	0.22
(1,708)	1:41:A:VAL:H	1:38:A:LEU:HA	18	0.17	0.03	0.18
(1,1502)	1:41:A:VAL:H	1:38:A:LEU:HA	18	0.17	0.03	0.18
(1,524)	1:78:A:PRO:HD3	1:77:A:VAL:HB	18	0.16	0.03	0.17
(1,660)	1:27:A:PHE:H	1:26:A:THR:HA	18	0.15	0.02	0.15
(1,726)	1:38:A:LEU:H	1:37:A:TRP:HA	18	0.12	0.01	0.12
(1,294)	1:38:A:LEU:HB2	1:39:A:LYS:H	17	0.18	0.04	0.19
(1,808)	1:59:A:HIS:H	1:58:A:GLY:HA2	17	0.16	0.02	0.16
(1,1518)	1:58:A:GLY:HA2	1:59:A:HIS:H	17	0.16	0.02	0.16
(1,340)	1:68:A:GLY:HA3	1:69:A:GLY:H	17	0.14	0.01	0.13
(1,359)	1:78:A:PRO:HB3	1:81:A:PHE:HZ	17	0.12	0.02	0.13
(1,1288)	1:81:A:PHE:HZ	1:78:A:PRO:HB3	17	0.12	0.02	0.13
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG21	16	0.25	0.07	0.26
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG22	16	0.25	0.07	0.26
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG23	16	0.25	0.07	0.26
(1,458)	1:22:A:LEU:HB3	1:23:A:HIS:H	16	0.15	0.03	0.15
(1,998)	1:22:A:LEU:HB3	1:23:A:HIS:H	16	0.15	0.03	0.15
(1,1179)	1:23:A:HIS:H	1:22:A:LEU:HB3	16	0.15	0.03	0.15
(1,255)	1:28:A:PRO:HB3	1:33:A:LEU:HG	16	0.13	0.02	0.13
(1,1632)	1:13:A:TYR:HA	1:63:A:SER:HB2	15	0.13	0.04	0.12
(1,1633)	1:63:A:SER:HB2	1:13:A:TYR:HA	15	0.13	0.04	0.12
(1,333)	1:16:A:SER:HB3	1:5:A:PHE:H	14	0.31	0.04	0.32
(1,1550)	1:27:A:PHE:HE1	1:38:A:LEU:HA	14	0.19	0.06	0.18
(1,1550)	1:27:A:PHE:HE2	1:38:A:LEU:HA	14	0.19	0.06	0.18
(1,571)	1:63:A:SER:H	1:64:A:VAL:H	14	0.14	0.03	0.14
(1,777)	1:64:A:VAL:H	1:63:A:SER:H	14	0.14	0.03	0.14
(1,989)	1:64:A:VAL:H	1:63:A:SER:H	14	0.14	0.03	0.14
(1,1221)	1:63:A:SER:H	1:64:A:VAL:H	14	0.14	0.03	0.14
(1,234)	1:61:A:LEU:HD11	1:65:A:HIS:HD2	14	0.13	0.03	0.12
(1,234)	1:61:A:LEU:HD12	1:65:A:HIS:HD2	14	0.13	0.03	0.12

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,234)	1:61:A:LEU:HD13	1:65:A:HIS:HD2	14	0.13	0.03	0.12
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD11	14	0.13	0.03	0.12
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD12	14	0.13	0.03	0.12
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD13	14	0.13	0.03	0.12
(1,98)	1:31:A:ALA:HA	1:34:A:ARG:H	14	0.13	0.01	0.13
(1,820)	1:62:A:CYS:H	1:61:A:LEU:HA	14	0.12	0.01	0.12
(1,1105)	1:61:A:LEU:HA	1:62:A:CYS:H	14	0.12	0.01	0.12
(1,1157)	1:62:A:CYS:H	1:61:A:LEU:HA	14	0.12	0.01	0.12
(1,685)	1:80:A:ILE:H	1:65:A:HIS:HB3	13	0.22	0.06	0.23
(1,1101)	1:14:A:ASN:HD22	1:64:A:VAL:HG21	13	0.18	0.09	0.13
(1,1101)	1:14:A:ASN:HD22	1:64:A:VAL:HG22	13	0.18	0.09	0.13
(1,1101)	1:14:A:ASN:HD22	1:64:A:VAL:HG23	13	0.18	0.09	0.13
(1,295)	1:38:A:LEU:HB2	1:35:A:ARG:HA	13	0.17	0.07	0.16
(1,418)	1:28:A:PRO:HD3	1:37:A:TRP:HZ3	13	0.14	0.02	0.14
(1,283)	1:28:A:PRO:HB2	1:33:A:LEU:HG	13	0.11	0.01	0.11
(1,1298)	1:27:A:PHE:HE1	1:37:A:TRP:HE3	12	0.18	0.04	0.18
(1,1298)	1:27:A:PHE:HE2	1:37:A:TRP:HE3	12	0.18	0.04	0.18
(1,387)	1:28:A:PRO:HD2	1:34:A:ARG:HB2	12	0.13	0.02	0.13
(1,668)	1:76:A:ARG:H	1:75:A:VAL:HG21	11	0.32	0.02	0.31
(1,668)	1:76:A:ARG:H	1:75:A:VAL:HG22	11	0.32	0.02	0.31
(1,668)	1:76:A:ARG:H	1:75:A:VAL:HG23	11	0.32	0.02	0.31
(1,747)	1:22:A:LEU:H	1:19:A:ASP:HA	11	0.21	0.03	0.21
(1,1764)	1:61:A:LEU:HG	1:65:A:HIS:HD2	11	0.13	0.03	0.12
(1,1765)	1:65:A:HIS:HD2	1:61:A:LEU:HG	11	0.13	0.03	0.12
(1,29)	1:41:A:VAL:HG11	1:38:A:LEU:HA	10	0.15	0.05	0.13
(1,29)	1:41:A:VAL:HG12	1:38:A:LEU:HA	10	0.15	0.05	0.13
(1,29)	1:41:A:VAL:HG13	1:38:A:LEU:HA	10	0.15	0.05	0.13
(1,417)	1:15:A:ASN:HA	1:16:A:SER:H	10	0.14	0.04	0.13
(1,618)	1:16:A:SER:H	1:15:A:ASN:HA	10	0.14	0.04	0.13
(1,1321)	1:16:A:SER:H	1:15:A:ASN:HA	10	0.14	0.04	0.13
(1,1378)	1:15:A:ASN:HA	1:16:A:SER:H	10	0.14	0.04	0.13
(1,133)	1:34:A:ARG:HA	1:28:A:PRO:HG2	10	0.12	0.01	0.12
(1,690)	1:80:A:ILE:H	1:79:A:THR:HB	9	0.15	0.03	0.15
(1,1084)	1:37:A:TRP:HE1	1:78:A:PRO:HD2	9	0.14	0.02	0.13
(1,591)	1:5:A:PHE:H	1:16:A:SER:H	9	0.14	0.04	0.11
(1,1265)	1:5:A:PHE:H	1:16:A:SER:H	9	0.14	0.04	0.11
(1,1320)	1:16:A:SER:H	1:5:A:PHE:H	9	0.14	0.04	0.11
(1,1207)	1:60:A:ARG:HA	1:61:A:LEU:H	9	0.12	0.01	0.11
(1,1604)	1:24:A:PHE:HZ	1:14:A:ASN:HB2	8	0.2	0.04	0.22
(1,1606)	1:14:A:ASN:HB2	1:24:A:PHE:HZ	8	0.2	0.04	0.22
(1,122)	1:36:A:LEU:HA	1:37:A:TRP:HD1	8	0.12	0.02	0.12
(1,908)	1:36:A:LEU:HA	1:37:A:TRP:HD1	8	0.12	0.02	0.12

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1270)	1:19:A:ASP:HB3	1:22:A:LEU:HD21	7	0.27	0.04	0.25
(1,1270)	1:19:A:ASP:HB3	1:22:A:LEU:HD22	7	0.27	0.04	0.25
(1,1270)	1:19:A:ASP:HB3	1:22:A:LEU:HD23	7	0.27	0.04	0.25
(1,1694)	1:62:A:CYS:HB3	1:14:A:ASN:HB2	7	0.13	0.03	0.12
(1,1695)	1:14:A:ASN:HB2	1:62:A:CYS:HB3	7	0.13	0.03	0.12
(1,719)	1:67:A:GLN:H	1:66:A:PHE:HA	7	0.12	0.01	0.12
(1,873)	1:67:A:GLN:H	1:66:A:PHE:HA	7	0.12	0.01	0.12
(1,1439)	1:66:A:PHE:HA	1:67:A:GLN:H	7	0.12	0.01	0.12
(1,684)	1:80:A:ILE:H	1:81:A:PHE:H	7	0.12	0.01	0.13
(1,1)	1:32:A:GLU:HB3	1:33:A:LEU:H	7	0.11	0.01	0.11
(1,1218)	1:32:A:GLU:HB3	1:33:A:LEU:H	7	0.11	0.01	0.11
(1,1260)	1:33:A:LEU:H	1:32:A:GLU:HB3	7	0.11	0.01	0.11
(1,780)	1:66:A:PHE:H	1:65:A:HIS:HB3	6	0.25	0.04	0.24
(1,244)	1:22:A:LEU:HD11	1:14:A:ASN:HD22	6	0.17	0.04	0.16
(1,244)	1:22:A:LEU:HD12	1:14:A:ASN:HD22	6	0.17	0.04	0.16
(1,244)	1:22:A:LEU:HD13	1:14:A:ASN:HD22	6	0.17	0.04	0.16
(1,759)	1:65:A:HIS:H	1:66:A:PHE:H	6	0.11	0.0	0.11
(1,904)	1:65:A:HIS:H	1:66:A:PHE:H	6	0.11	0.0	0.11
(1,991)	1:66:A:PHE:H	1:65:A:HIS:H	6	0.11	0.0	0.11
(1,1017)	1:59:A:HIS:HB3	1:27:A:PHE:HE1	5	0.27	0.07	0.28
(1,1017)	1:59:A:HIS:HB3	1:27:A:PHE:HE2	5	0.27	0.07	0.28
(1,1325)	1:19:A:ASP:H	1:18:A:ARG:HB2	5	0.17	0.06	0.13
(1,34)	1:41:A:VAL:HG11	1:81:A:PHE:HE1	5	0.16	0.03	0.15
(1,34)	1:41:A:VAL:HG11	1:81:A:PHE:HE2	5	0.16	0.03	0.15
(1,34)	1:41:A:VAL:HG12	1:81:A:PHE:HE1	5	0.16	0.03	0.15
(1,34)	1:41:A:VAL:HG12	1:81:A:PHE:HE2	5	0.16	0.03	0.15
(1,34)	1:41:A:VAL:HG13	1:81:A:PHE:HE1	5	0.16	0.03	0.15
(1,34)	1:41:A:VAL:HG13	1:81:A:PHE:HE2	5	0.16	0.03	0.15
(1,1092)	1:41:A:VAL:HG11	1:81:A:PHE:HE1	5	0.16	0.03	0.15
(1,1092)	1:41:A:VAL:HG11	1:81:A:PHE:HE2	5	0.16	0.03	0.15
(1,1092)	1:41:A:VAL:HG12	1:81:A:PHE:HE1	5	0.16	0.03	0.15
(1,1092)	1:41:A:VAL:HG12	1:81:A:PHE:HE2	5	0.16	0.03	0.15
(1,1092)	1:41:A:VAL:HG13	1:81:A:PHE:HE1	5	0.16	0.03	0.15
(1,1092)	1:41:A:VAL:HG13	1:81:A:PHE:HE2	5	0.16	0.03	0.15
(1,113)	1:61:A:LEU:HD21	1:81:A:PHE:HD1	5	0.15	0.04	0.14
(1,113)	1:61:A:LEU:HD21	1:81:A:PHE:HD2	5	0.15	0.04	0.14
(1,113)	1:61:A:LEU:HD22	1:81:A:PHE:HD1	5	0.15	0.04	0.14
(1,113)	1:61:A:LEU:HD22	1:81:A:PHE:HD2	5	0.15	0.04	0.14
(1,113)	1:61:A:LEU:HD23	1:81:A:PHE:HD1	5	0.15	0.04	0.14
(1,113)	1:61:A:LEU:HD23	1:81:A:PHE:HD2	5	0.15	0.04	0.14
(1,1356)	1:9:A:VAL:HG11	1:81:A:PHE:HD1	5	0.14	0.02	0.14
(1,1356)	1:9:A:VAL:HG11	1:81:A:PHE:HD2	5	0.14	0.02	0.14

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1356)	1:9:A:VAL:HG12	1:81:A:PHE:HD1	5	0.14	0.02	0.14
(1,1356)	1:9:A:VAL:HG12	1:81:A:PHE:HD2	5	0.14	0.02	0.14
(1,1356)	1:9:A:VAL:HG13	1:81:A:PHE:HD1	5	0.14	0.02	0.14
(1,1356)	1:9:A:VAL:HG13	1:81:A:PHE:HD2	5	0.14	0.02	0.14
(1,1209)	1:78:A:PRO:HD3	1:37:A:TRP:HD1	5	0.13	0.03	0.11
(1,114)	1:61:A:LEU:HD21	1:37:A:TRP:HH2	5	0.12	0.01	0.12
(1,114)	1:61:A:LEU:HD22	1:37:A:TRP:HH2	5	0.12	0.01	0.12
(1,114)	1:61:A:LEU:HD23	1:37:A:TRP:HH2	5	0.12	0.01	0.12
(1,1078)	1:61:A:LEU:HD21	1:37:A:TRP:HH2	5	0.12	0.01	0.12
(1,1078)	1:61:A:LEU:HD22	1:37:A:TRP:HH2	5	0.12	0.01	0.12
(1,1078)	1:61:A:LEU:HD23	1:37:A:TRP:HH2	5	0.12	0.01	0.12
(1,1128)	1:61:A:LEU:HD11	1:37:A:TRP:HH2	4	0.33	0.06	0.34
(1,1128)	1:61:A:LEU:HD12	1:37:A:TRP:HH2	4	0.33	0.06	0.34
(1,1128)	1:61:A:LEU:HD13	1:37:A:TRP:HH2	4	0.33	0.06	0.34
(1,592)	1:5:A:PHE:H	1:16:A:SER:HA	4	0.25	0.01	0.24
(1,187)	1:62:A:CYS:HB3	1:22:A:LEU:HD21	4	0.24	0.04	0.26
(1,187)	1:62:A:CYS:HB3	1:22:A:LEU:HD22	4	0.24	0.04	0.26
(1,187)	1:62:A:CYS:HB3	1:22:A:LEU:HD23	4	0.24	0.04	0.26
(1,204)	1:22:A:LEU:HD21	1:62:A:CYS:HB3	4	0.24	0.04	0.26
(1,204)	1:22:A:LEU:HD22	1:62:A:CYS:HB3	4	0.24	0.04	0.26
(1,204)	1:22:A:LEU:HD23	1:62:A:CYS:HB3	4	0.24	0.04	0.26
(1,198)	1:16:A:SER:HA	1:24:A:PHE:HD1	4	0.2	0.05	0.21
(1,198)	1:16:A:SER:HA	1:24:A:PHE:HD2	4	0.2	0.05	0.21
(1,1524)	1:16:A:SER:HA	1:24:A:PHE:HD1	4	0.2	0.05	0.21
(1,1524)	1:16:A:SER:HA	1:24:A:PHE:HD2	4	0.2	0.05	0.21
(1,1120)	1:24:A:PHE:HZ	1:15:A:ASN:H	4	0.18	0.03	0.18
(1,1491)	1:15:A:ASN:H	1:24:A:PHE:HZ	4	0.18	0.03	0.18
(1,997)	1:38:A:LEU:HG	1:27:A:PHE:HD1	4	0.17	0.02	0.17
(1,997)	1:38:A:LEU:HG	1:27:A:PHE:HD2	4	0.17	0.02	0.17
(1,192)	1:71:A:LYS:HE2	1:70:A:ARG:H	4	0.15	0.02	0.15
(1,258)	1:6:A:THR:HA	1:15:A:ASN:HA	4	0.14	0.03	0.14
(1,416)	1:15:A:ASN:HA	1:6:A:THR:HA	4	0.14	0.03	0.14
(1,556)	1:6:A:THR:HA	1:15:A:ASN:HA	4	0.14	0.03	0.14
(1,559)	1:6:A:THR:HA	1:15:A:ASN:HA	4	0.14	0.03	0.14
(1,305)	1:60:A:ARG:HB2	1:61:A:LEU:H	4	0.14	0.02	0.14
(1,332)	1:16:A:SER:HB3	1:5:A:PHE:HD1	4	0.14	0.02	0.14
(1,332)	1:16:A:SER:HB3	1:5:A:PHE:HD2	4	0.14	0.02	0.14
(1,716)	1:67:A:GLN:H	1:66:A:PHE:HB3	4	0.13	0.03	0.12
(1,1611)	1:60:A:ARG:HB2	1:24:A:PHE:HD1	4	0.13	0.0	0.13
(1,1611)	1:60:A:ARG:HB2	1:24:A:PHE:HD2	4	0.13	0.0	0.13
(1,1612)	1:24:A:PHE:HD1	1:60:A:ARG:HB2	4	0.13	0.0	0.13
(1,1612)	1:24:A:PHE:HD2	1:60:A:ARG:HB2	4	0.13	0.0	0.13

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,711)	1:30:A:ASP:H	1:29:A:LYS:HB2	4	0.12	0.0	0.12
(1,743)	1:35:A:ARG:H	1:33:A:LEU:HA	4	0.11	0.0	0.11
(1,293)	1:45:A:GLY:HA2	1:46:A:VAL:H	3	0.19	0.04	0.19
(1,477)	1:14:A:ASN:HB3	1:22:A:LEU:HD21	3	0.19	0.07	0.19
(1,477)	1:14:A:ASN:HB3	1:22:A:LEU:HD22	3	0.19	0.07	0.19
(1,477)	1:14:A:ASN:HB3	1:22:A:LEU:HD23	3	0.19	0.07	0.19
(1,623)	1:19:A:ASP:H	1:20:A:LYS:H	3	0.17	0.02	0.17
(1,995)	1:20:A:LYS:H	1:19:A:ASP:H	3	0.17	0.02	0.17
(1,1465)	1:27:A:PHE:HD1	1:61:A:LEU:HD21	3	0.17	0.01	0.17
(1,1465)	1:27:A:PHE:HD1	1:61:A:LEU:HD22	3	0.17	0.01	0.17
(1,1465)	1:27:A:PHE:HD1	1:61:A:LEU:HD23	3	0.17	0.01	0.17
(1,1465)	1:27:A:PHE:HD2	1:61:A:LEU:HD21	3	0.17	0.01	0.17
(1,1465)	1:27:A:PHE:HD2	1:61:A:LEU:HD22	3	0.17	0.01	0.17
(1,1465)	1:27:A:PHE:HD2	1:61:A:LEU:HD23	3	0.17	0.01	0.17
(1,274)	1:69:A:GLY:HA3	1:70:A:ARG:H	3	0.15	0.03	0.16
(1,651)	1:70:A:ARG:H	1:69:A:GLY:HA3	3	0.15	0.03	0.16
(1,236)	1:61:A:LEU:HD11	1:37:A:TRP:HH2	3	0.14	0.0	0.14
(1,236)	1:61:A:LEU:HD12	1:37:A:TRP:HH2	3	0.14	0.0	0.14
(1,236)	1:61:A:LEU:HD13	1:37:A:TRP:HH2	3	0.14	0.0	0.14
(1,504)	1:62:A:CYS:HA	1:24:A:PHE:HA	3	0.14	0.01	0.14
(1,1058)	1:59:A:HIS:HB2	1:27:A:PHE:HE1	3	0.14	0.0	0.14
(1,1058)	1:59:A:HIS:HB2	1:27:A:PHE:HE2	3	0.14	0.0	0.14
(1,1241)	1:62:A:CYS:HA	1:24:A:PHE:HA	3	0.14	0.01	0.14
(1,142)	1:62:A:CYS:HB2	1:7:A:CYS:HB3	3	0.13	0.01	0.14
(1,218)	1:7:A:CYS:HB3	1:62:A:CYS:HB2	3	0.13	0.01	0.14
(1,687)	1:80:A:ILE:H	1:65:A:HIS:HA	3	0.13	0.02	0.13
(1,1429)	1:65:A:HIS:HA	1:80:A:ILE:H	3	0.13	0.02	0.13
(1,1289)	1:40:A:ASN:HB2	1:81:A:PHE:HE1	3	0.13	0.02	0.12
(1,1289)	1:40:A:ASN:HB2	1:81:A:PHE:HE2	3	0.13	0.02	0.12
(1,1725)	1:16:A:SER:HB3	1:5:A:PHE:HB2	3	0.13	0.01	0.13
(1,1726)	1:5:A:PHE:HB2	1:16:A:SER:HB3	3	0.13	0.01	0.13
(1,894)	1:77:A:VAL:HG21	1:37:A:TRP:HD1	3	0.12	0.01	0.12
(1,894)	1:77:A:VAL:HG22	1:37:A:TRP:HD1	3	0.12	0.01	0.12
(1,894)	1:77:A:VAL:HG23	1:37:A:TRP:HD1	3	0.12	0.01	0.12
(1,1428)	1:65:A:HIS:HA	1:80:A:ILE:HG13	3	0.12	0.01	0.12
(1,683)	1:80:A:ILE:H	1:65:A:HIS:HB2	3	0.11	0.01	0.1
(1,766)	1:31:A:ALA:H	1:30:A:ASP:HB2	3	0.11	0.0	0.11
(1,1123)	1:61:A:LEU:HD11	1:37:A:TRP:HZ3	2	0.22	0.01	0.22
(1,1123)	1:61:A:LEU:HD12	1:37:A:TRP:HZ3	2	0.22	0.01	0.22
(1,1123)	1:61:A:LEU:HD13	1:37:A:TRP:HZ3	2	0.22	0.01	0.22
(1,1446)	1:66:A:PHE:HZ	1:61:A:LEU:HD21	2	0.21	0.06	0.21
(1,1446)	1:66:A:PHE:HZ	1:61:A:LEU:HD22	2	0.21	0.06	0.21

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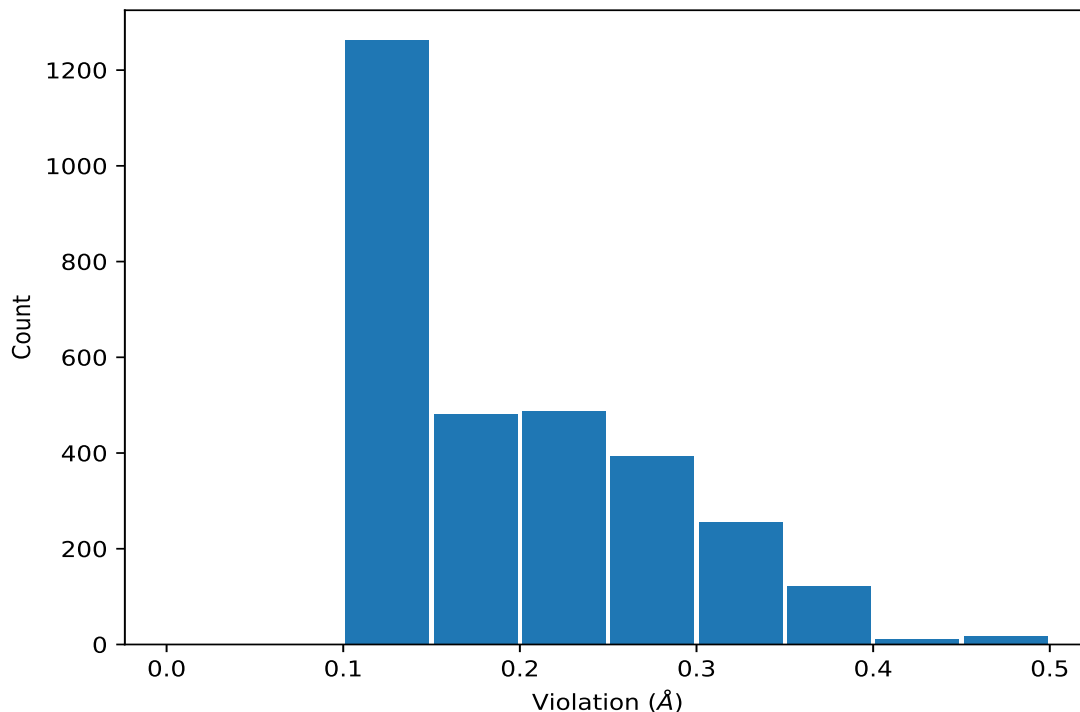
Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1446)	1:66:A:PHE:HZ	1:61:A:LEU:HD23	2	0.21	0.06	0.21
(1,167)	1:45:A:GLY:HA3	1:46:A:VAL:H	2	0.19	0.02	0.19
(1,36)	1:46:A:VAL:HG11	1:47:A:SER:HB3	2	0.18	0.04	0.18
(1,36)	1:46:A:VAL:HG12	1:47:A:SER:HB3	2	0.18	0.04	0.18
(1,36)	1:46:A:VAL:HG13	1:47:A:SER:HB3	2	0.18	0.04	0.18
(1,444)	1:68:A:GLY:HA2	1:69:A:GLY:H	2	0.16	0.01	0.16
(1,1589)	1:65:A:HIS:HE1	1:81:A:PHE:HD1	2	0.16	0.04	0.16
(1,1589)	1:65:A:HIS:HE1	1:81:A:PHE:HD2	2	0.16	0.04	0.16
(1,296)	1:16:A:SER:HB2	1:5:A:PHE:H	2	0.15	0.02	0.15
(1,1080)	1:61:A:LEU:HD21	1:37:A:TRP:HE3	2	0.15	0.01	0.15
(1,1080)	1:61:A:LEU:HD22	1:37:A:TRP:HE3	2	0.15	0.01	0.15
(1,1080)	1:61:A:LEU:HD23	1:37:A:TRP:HE3	2	0.15	0.01	0.15
(1,1514)	1:37:A:TRP:HE3	1:61:A:LEU:HD21	2	0.15	0.01	0.15
(1,1514)	1:37:A:TRP:HE3	1:61:A:LEU:HD22	2	0.15	0.01	0.15
(1,1514)	1:37:A:TRP:HE3	1:61:A:LEU:HD23	2	0.15	0.01	0.15
(1,1377)	1:15:A:ASN:HA	1:24:A:PHE:HZ	2	0.15	0.0	0.15
(1,733)	1:72:A:THR:H	1:71:A:LYS:HG2	2	0.13	0.0	0.13
(1,1086)	1:37:A:TRP:HE1	1:77:A:VAL:HA	2	0.13	0.01	0.13
(1,775)	1:17:A:HIS:H	1:18:A:ARG:HD2	2	0.12	0.02	0.12
(1,168)	1:45:A:GLY:HA3	1:46:A:VAL:HG11	2	0.12	0.0	0.12
(1,168)	1:45:A:GLY:HA3	1:46:A:VAL:HG12	2	0.12	0.0	0.12
(1,168)	1:45:A:GLY:HA3	1:46:A:VAL:HG13	2	0.12	0.0	0.12
(1,666)	1:76:A:ARG:H	1:75:A:VAL:HB	2	0.11	0.0	0.11
(1,951)	1:24:A:PHE:HE1	1:62:A:CYS:HB2	2	0.11	0.01	0.11
(1,951)	1:24:A:PHE:HE2	1:62:A:CYS:HB2	2	0.11	0.01	0.11
(1,1116)	1:16:A:SER:HB3	1:42:A:SER:HB2	2	0.11	0.0	0.11
(1,1441)	1:42:A:SER:HB2	1:16:A:SER:HB3	2	0.11	0.0	0.11
(1,303)	1:30:A:ASP:HB2	1:33:A:LEU:HD21	2	0.11	0.0	0.11
(1,303)	1:30:A:ASP:HB2	1:33:A:LEU:HD22	2	0.11	0.0	0.11
(1,303)	1:30:A:ASP:HB2	1:33:A:LEU:HD23	2	0.11	0.0	0.11
(1,475)	1:14:A:ASN:HB3	1:24:A:PHE:HZ	2	0.11	0.0	0.11
(1,727)	1:38:A:LEU:H	1:37:A:TRP:HB3	2	0.11	0.0	0.11
(1,1071)	1:14:A:ASN:HB3	1:24:A:PHE:HZ	2	0.11	0.0	0.11
(1,1118)	1:24:A:PHE:HZ	1:14:A:ASN:HB3	2	0.11	0.0	0.11
(1,1625)	1:59:A:HIS:HD2	1:8:A:CYS:HB2	2	0.11	0.0	0.11
(1,1670)	1:33:A:LEU:HD21	1:30:A:ASP:HB2	2	0.11	0.0	0.11
(1,1670)	1:33:A:LEU:HD22	1:30:A:ASP:HB2	2	0.11	0.0	0.11
(1,1670)	1:33:A:LEU:HD23	1:30:A:ASP:HB2	2	0.11	0.0	0.11
(1,1672)	1:30:A:ASP:HB2	1:33:A:LEU:HD21	2	0.11	0.0	0.11
(1,1672)	1:30:A:ASP:HB2	1:33:A:LEU:HD22	2	0.11	0.0	0.11
(1,1672)	1:30:A:ASP:HB2	1:33:A:LEU:HD23	2	0.11	0.0	0.11

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

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

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

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



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

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

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,585)	1:33:A:LEU:H	1:32:A:GLU:HB2	5	0.46
(1,585)	1:33:A:LEU:H	1:32:A:GLU:HB2	1	0.45
(1,585)	1:33:A:LEU:H	1:32:A:GLU:HB2	2	0.45
(1,585)	1:33:A:LEU:H	1:32:A:GLU:HB2	3	0.45
(1,585)	1:33:A:LEU:H	1:32:A:GLU:HB2	4	0.45
(1,585)	1:33:A:LEU:H	1:32:A:GLU:HB2	7	0.45
(1,585)	1:33:A:LEU:H	1:32:A:GLU:HB2	8	0.45
(1,585)	1:33:A:LEU:H	1:32:A:GLU:HB2	9	0.45
(1,585)	1:33:A:LEU:H	1:32:A:GLU:HB2	10	0.45
(1,585)	1:33:A:LEU:H	1:32:A:GLU:HB2	11	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,585)	1:33:A:LEU:H	1:32:A:GLU:HB2	12	0.45
(1,585)	1:33:A:LEU:H	1:32:A:GLU:HB2	13	0.45
(1,585)	1:33:A:LEU:H	1:32:A:GLU:HB2	14	0.45
(1,585)	1:33:A:LEU:H	1:32:A:GLU:HB2	15	0.45
(1,585)	1:33:A:LEU:H	1:32:A:GLU:HB2	16	0.45
(1,585)	1:33:A:LEU:H	1:32:A:GLU:HB2	17	0.45
(1,585)	1:33:A:LEU:H	1:32:A:GLU:HB2	18	0.45
(1,585)	1:33:A:LEU:H	1:32:A:GLU:HB2	19	0.45
(1,585)	1:33:A:LEU:H	1:32:A:GLU:HB2	6	0.44
(1,57)	1:32:A:GLU:HA	1:36:A:LEU:H	8	0.44
(1,330)	1:37:A:TRP:HA	1:38:A:LEU:H	8	0.41
(1,57)	1:32:A:GLU:HA	1:36:A:LEU:H	7	0.41
(1,1128)	1:61:A:LEU:HD11	1:37:A:TRP:HH2	19	0.4
(1,1128)	1:61:A:LEU:HD12	1:37:A:TRP:HH2	19	0.4
(1,1128)	1:61:A:LEU:HD13	1:37:A:TRP:HH2	19	0.4
(1,330)	1:37:A:TRP:HA	1:38:A:LEU:H	1	0.4
(1,330)	1:37:A:TRP:HA	1:38:A:LEU:H	4	0.4
(1,57)	1:32:A:GLU:HA	1:36:A:LEU:H	1	0.4
(1,57)	1:32:A:GLU:HA	1:36:A:LEU:H	10	0.4
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD21	4	0.39
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD22	4	0.39
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD23	4	0.39
(1,330)	1:37:A:TRP:HA	1:38:A:LEU:H	2	0.39
(1,330)	1:37:A:TRP:HA	1:38:A:LEU:H	3	0.39
(1,330)	1:37:A:TRP:HA	1:38:A:LEU:H	10	0.39
(1,330)	1:37:A:TRP:HA	1:38:A:LEU:H	17	0.39
(1,330)	1:37:A:TRP:HA	1:38:A:LEU:H	18	0.39
(1,57)	1:32:A:GLU:HA	1:36:A:LEU:H	3	0.39
(1,57)	1:32:A:GLU:HA	1:36:A:LEU:H	6	0.39
(1,1149)	1:27:A:PHE:HA	1:28:A:PRO:HD3	2	0.38
(1,1149)	1:27:A:PHE:HA	1:28:A:PRO:HD3	7	0.38
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD21	3	0.38
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD22	3	0.38
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD23	3	0.38
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD21	6	0.38
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD22	6	0.38
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD23	6	0.38
(1,330)	1:37:A:TRP:HA	1:38:A:LEU:H	6	0.38
(1,330)	1:37:A:TRP:HA	1:38:A:LEU:H	7	0.38
(1,330)	1:37:A:TRP:HA	1:38:A:LEU:H	9	0.38
(1,330)	1:37:A:TRP:HA	1:38:A:LEU:H	11	0.38
(1,330)	1:37:A:TRP:HA	1:38:A:LEU:H	12	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,330)	1:37:A:TRP:HA	1:38:A:LEU:H	14	0.38
(1,330)	1:37:A:TRP:HA	1:38:A:LEU:H	15	0.38
(1,330)	1:37:A:TRP:HA	1:38:A:LEU:H	16	0.38
(1,266)	1:38:A:LEU:HB3	1:35:A:ARG:HA	3	0.38
(1,266)	1:38:A:LEU:HB3	1:35:A:ARG:HA	8	0.38
(1,57)	1:32:A:GLU:HA	1:36:A:LEU:H	4	0.38
(1,57)	1:32:A:GLU:HA	1:36:A:LEU:H	5	0.38
(1,57)	1:32:A:GLU:HA	1:36:A:LEU:H	12	0.38
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG21	19	0.37
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG22	19	0.37
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG23	19	0.37
(1,1318)	1:25:A:TYR:H	1:24:A:PHE:HA	1	0.37
(1,1149)	1:27:A:PHE:HA	1:28:A:PRO:HD3	3	0.37
(1,1149)	1:27:A:PHE:HA	1:28:A:PRO:HD3	9	0.37
(1,1149)	1:27:A:PHE:HA	1:28:A:PRO:HD3	10	0.37
(1,1149)	1:27:A:PHE:HA	1:28:A:PRO:HD3	13	0.37
(1,1017)	1:59:A:HIS:HB3	1:27:A:PHE:HE1	7	0.37
(1,1017)	1:59:A:HIS:HB3	1:27:A:PHE:HE2	7	0.37
(1,862)	1:38:A:LEU:HA	1:39:A:LYS:H	18	0.37
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD21	1	0.37
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD22	1	0.37
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD23	1	0.37
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD21	2	0.37
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD22	2	0.37
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD23	2	0.37
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD21	8	0.37
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD22	8	0.37
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD23	8	0.37
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD21	9	0.37
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD22	9	0.37
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD23	9	0.37
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD21	11	0.37
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD22	11	0.37
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD23	11	0.37
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD21	12	0.37
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD22	12	0.37
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD23	12	0.37
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD21	13	0.37
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD22	13	0.37
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD23	13	0.37
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD21	16	0.37
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD22	16	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD23	16	0.37
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD21	17	0.37
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD22	17	0.37
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD23	17	0.37
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD21	19	0.37
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD22	19	0.37
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD23	19	0.37
(1,333)	1:16:A:SER:HB3	1:5:A:PHE:H	5	0.37
(1,330)	1:37:A:TRP:HA	1:38:A:LEU:H	5	0.37
(1,330)	1:37:A:TRP:HA	1:38:A:LEU:H	13	0.37
(1,330)	1:37:A:TRP:HA	1:38:A:LEU:H	19	0.37
(1,266)	1:38:A:LEU:HB3	1:35:A:ARG:HA	2	0.37
(1,266)	1:38:A:LEU:HB3	1:35:A:ARG:HA	18	0.37
(1,57)	1:32:A:GLU:HA	1:36:A:LEU:H	2	0.37
(1,57)	1:32:A:GLU:HA	1:36:A:LEU:H	17	0.37
(1,1375)	1:50:A:PHE:HA	1:51:A:SER:H	12	0.36
(1,1318)	1:25:A:TYR:H	1:24:A:PHE:HA	4	0.36
(1,1318)	1:25:A:TYR:H	1:24:A:PHE:HA	8	0.36
(1,1318)	1:25:A:TYR:H	1:24:A:PHE:HA	19	0.36
(1,1303)	1:42:A:SER:HA	1:43:A:ARG:H	10	0.36
(1,1149)	1:27:A:PHE:HA	1:28:A:PRO:HD3	5	0.36
(1,1149)	1:27:A:PHE:HA	1:28:A:PRO:HD3	6	0.36
(1,1149)	1:27:A:PHE:HA	1:28:A:PRO:HD3	12	0.36
(1,862)	1:38:A:LEU:HA	1:39:A:LYS:H	3	0.36
(1,862)	1:38:A:LEU:HA	1:39:A:LYS:H	7	0.36
(1,862)	1:38:A:LEU:HA	1:39:A:LYS:H	8	0.36
(1,862)	1:38:A:LEU:HA	1:39:A:LYS:H	10	0.36
(1,862)	1:38:A:LEU:HA	1:39:A:LYS:H	13	0.36
(1,862)	1:38:A:LEU:HA	1:39:A:LYS:H	19	0.36
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD21	5	0.36
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD22	5	0.36
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD23	5	0.36
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD21	7	0.36
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD22	7	0.36
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD23	7	0.36
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD21	10	0.36
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD22	10	0.36
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD23	10	0.36
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD21	14	0.36
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD22	14	0.36
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD23	14	0.36
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD21	15	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD22	15	0.36
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD23	15	0.36
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD21	18	0.36
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD22	18	0.36
(1,830)	1:34:A:ARG:H	1:33:A:LEU:HD23	18	0.36
(1,339)	1:42:A:SER:HB2	1:43:A:ARG:H	1	0.36
(1,339)	1:42:A:SER:HB2	1:43:A:ARG:H	3	0.36
(1,339)	1:42:A:SER:HB2	1:43:A:ARG:H	5	0.36
(1,339)	1:42:A:SER:HB2	1:43:A:ARG:H	14	0.36
(1,339)	1:42:A:SER:HB2	1:43:A:ARG:H	17	0.36
(1,333)	1:16:A:SER:HB3	1:5:A:PHE:H	16	0.36
(1,266)	1:38:A:LEU:HB3	1:35:A:ARG:HA	1	0.36
(1,266)	1:38:A:LEU:HB3	1:35:A:ARG:HA	4	0.36
(1,57)	1:32:A:GLU:HA	1:36:A:LEU:H	11	0.36
(1,57)	1:32:A:GLU:HA	1:36:A:LEU:H	18	0.36
(1,1318)	1:25:A:TYR:H	1:24:A:PHE:HA	3	0.35
(1,1318)	1:25:A:TYR:H	1:24:A:PHE:HA	9	0.35
(1,1318)	1:25:A:TYR:H	1:24:A:PHE:HA	12	0.35
(1,1318)	1:25:A:TYR:H	1:24:A:PHE:HA	14	0.35
(1,1318)	1:25:A:TYR:H	1:24:A:PHE:HA	18	0.35
(1,1303)	1:42:A:SER:HA	1:43:A:ARG:H	7	0.35
(1,1303)	1:42:A:SER:HA	1:43:A:ARG:H	13	0.35
(1,1303)	1:42:A:SER:HA	1:43:A:ARG:H	14	0.35
(1,1270)	1:19:A:ASP:HB3	1:22:A:LEU:HD21	17	0.35
(1,1270)	1:19:A:ASP:HB3	1:22:A:LEU:HD22	17	0.35
(1,1270)	1:19:A:ASP:HB3	1:22:A:LEU:HD23	17	0.35
(1,1149)	1:27:A:PHE:HA	1:28:A:PRO:HD3	15	0.35
(1,1149)	1:27:A:PHE:HA	1:28:A:PRO:HD3	18	0.35
(1,1149)	1:27:A:PHE:HA	1:28:A:PRO:HD3	19	0.35
(1,1128)	1:61:A:LEU:HD11	1:37:A:TRP:HH2	16	0.35
(1,1128)	1:61:A:LEU:HD12	1:37:A:TRP:HH2	16	0.35
(1,1128)	1:61:A:LEU:HD13	1:37:A:TRP:HH2	16	0.35
(1,1101)	1:14:A:ASN:HD22	1:64:A:VAL:HG21	4	0.35
(1,1101)	1:14:A:ASN:HD22	1:64:A:VAL:HG22	4	0.35
(1,1101)	1:14:A:ASN:HD22	1:64:A:VAL:HG23	4	0.35
(1,862)	1:38:A:LEU:HA	1:39:A:LYS:H	1	0.35
(1,862)	1:38:A:LEU:HA	1:39:A:LYS:H	2	0.35
(1,862)	1:38:A:LEU:HA	1:39:A:LYS:H	4	0.35
(1,862)	1:38:A:LEU:HA	1:39:A:LYS:H	6	0.35
(1,862)	1:38:A:LEU:HA	1:39:A:LYS:H	9	0.35
(1,862)	1:38:A:LEU:HA	1:39:A:LYS:H	11	0.35
(1,862)	1:38:A:LEU:HA	1:39:A:LYS:H	12	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,862)	1:38:A:LEU:HA	1:39:A:LYS:H	15	0.35
(1,862)	1:38:A:LEU:HA	1:39:A:LYS:H	16	0.35
(1,862)	1:38:A:LEU:HA	1:39:A:LYS:H	17	0.35
(1,668)	1:76:A:ARG:H	1:75:A:VAL:HG21	17	0.35
(1,668)	1:76:A:ARG:H	1:75:A:VAL:HG22	17	0.35
(1,668)	1:76:A:ARG:H	1:75:A:VAL:HG23	17	0.35
(1,523)	1:56:A:THR:HA	1:57:A:THR:H	4	0.35
(1,523)	1:56:A:THR:HA	1:57:A:THR:H	6	0.35
(1,523)	1:56:A:THR:HA	1:57:A:THR:H	9	0.35
(1,523)	1:56:A:THR:HA	1:57:A:THR:H	12	0.35
(1,523)	1:56:A:THR:HA	1:57:A:THR:H	16	0.35
(1,523)	1:56:A:THR:HA	1:57:A:THR:H	18	0.35
(1,339)	1:42:A:SER:HB2	1:43:A:ARG:H	8	0.35
(1,339)	1:42:A:SER:HB2	1:43:A:ARG:H	10	0.35
(1,339)	1:42:A:SER:HB2	1:43:A:ARG:H	13	0.35
(1,333)	1:16:A:SER:HB3	1:5:A:PHE:H	3	0.35
(1,57)	1:32:A:GLU:HA	1:36:A:LEU:H	14	0.35
(1,57)	1:32:A:GLU:HA	1:36:A:LEU:H	16	0.35
(1,57)	1:32:A:GLU:HA	1:36:A:LEU:H	19	0.35
(1,1550)	1:27:A:PHE:HE1	1:38:A:LEU:HA	3	0.34
(1,1550)	1:27:A:PHE:HE2	1:38:A:LEU:HA	3	0.34
(1,1391)	1:32:A:GLU:HA	1:34:A:ARG:H	9	0.34
(1,1391)	1:32:A:GLU:HA	1:34:A:ARG:H	13	0.34
(1,1375)	1:50:A:PHE:HA	1:51:A:SER:H	11	0.34
(1,1318)	1:25:A:TYR:H	1:24:A:PHE:HA	5	0.34
(1,1318)	1:25:A:TYR:H	1:24:A:PHE:HA	10	0.34
(1,1318)	1:25:A:TYR:H	1:24:A:PHE:HA	11	0.34
(1,1318)	1:25:A:TYR:H	1:24:A:PHE:HA	13	0.34
(1,1318)	1:25:A:TYR:H	1:24:A:PHE:HA	15	0.34
(1,1318)	1:25:A:TYR:H	1:24:A:PHE:HA	17	0.34
(1,1303)	1:42:A:SER:HA	1:43:A:ARG:H	1	0.34
(1,1303)	1:42:A:SER:HA	1:43:A:ARG:H	8	0.34
(1,1303)	1:42:A:SER:HA	1:43:A:ARG:H	11	0.34
(1,1303)	1:42:A:SER:HA	1:43:A:ARG:H	12	0.34
(1,1303)	1:42:A:SER:HA	1:43:A:ARG:H	15	0.34
(1,1303)	1:42:A:SER:HA	1:43:A:ARG:H	16	0.34
(1,1266)	1:43:A:ARG:H	1:42:A:SER:H	5	0.34
(1,1149)	1:27:A:PHE:HA	1:28:A:PRO:HD3	8	0.34
(1,1149)	1:27:A:PHE:HA	1:28:A:PRO:HD3	11	0.34
(1,1149)	1:27:A:PHE:HA	1:28:A:PRO:HD3	17	0.34
(1,862)	1:38:A:LEU:HA	1:39:A:LYS:H	14	0.34
(1,832)	1:34:A:ARG:H	1:32:A:GLU:HA	9	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,832)	1:34:A:ARG:H	1:32:A:GLU:HA	13	0.34
(1,668)	1:76:A:ARG:H	1:75:A:VAL:HG21	3	0.34
(1,668)	1:76:A:ARG:H	1:75:A:VAL:HG22	3	0.34
(1,668)	1:76:A:ARG:H	1:75:A:VAL:HG23	3	0.34
(1,668)	1:76:A:ARG:H	1:75:A:VAL:HG21	10	0.34
(1,668)	1:76:A:ARG:H	1:75:A:VAL:HG22	10	0.34
(1,668)	1:76:A:ARG:H	1:75:A:VAL:HG23	10	0.34
(1,523)	1:56:A:THR:HA	1:57:A:THR:H	1	0.34
(1,523)	1:56:A:THR:HA	1:57:A:THR:H	2	0.34
(1,523)	1:56:A:THR:HA	1:57:A:THR:H	3	0.34
(1,523)	1:56:A:THR:HA	1:57:A:THR:H	5	0.34
(1,523)	1:56:A:THR:HA	1:57:A:THR:H	7	0.34
(1,523)	1:56:A:THR:HA	1:57:A:THR:H	10	0.34
(1,523)	1:56:A:THR:HA	1:57:A:THR:H	13	0.34
(1,523)	1:56:A:THR:HA	1:57:A:THR:H	14	0.34
(1,523)	1:56:A:THR:HA	1:57:A:THR:H	15	0.34
(1,523)	1:56:A:THR:HA	1:57:A:THR:H	17	0.34
(1,523)	1:56:A:THR:HA	1:57:A:THR:H	19	0.34
(1,423)	1:28:A:PRO:HD3	1:27:A:PHE:HB2	1	0.34
(1,423)	1:28:A:PRO:HD3	1:27:A:PHE:HB2	4	0.34
(1,423)	1:28:A:PRO:HD3	1:27:A:PHE:HB2	16	0.34
(1,339)	1:42:A:SER:HB2	1:43:A:ARG:H	4	0.34
(1,339)	1:42:A:SER:HB2	1:43:A:ARG:H	15	0.34
(1,339)	1:42:A:SER:HB2	1:43:A:ARG:H	18	0.34
(1,333)	1:16:A:SER:HB3	1:5:A:PHE:H	17	0.34
(1,266)	1:38:A:LEU:HB3	1:35:A:ARG:HA	7	0.34
(1,266)	1:38:A:LEU:HB3	1:35:A:ARG:HA	9	0.34
(1,266)	1:38:A:LEU:HB3	1:35:A:ARG:HA	10	0.34
(1,266)	1:38:A:LEU:HB3	1:35:A:ARG:HA	12	0.34
(1,266)	1:38:A:LEU:HB3	1:35:A:ARG:HA	13	0.34
(1,57)	1:32:A:GLU:HA	1:36:A:LEU:H	15	0.34
(1,1318)	1:25:A:TYR:H	1:24:A:PHE:HA	6	0.33
(1,1318)	1:25:A:TYR:H	1:24:A:PHE:HA	7	0.33
(1,1303)	1:42:A:SER:HA	1:43:A:ARG:H	2	0.33
(1,1303)	1:42:A:SER:HA	1:43:A:ARG:H	9	0.33
(1,1303)	1:42:A:SER:HA	1:43:A:ARG:H	18	0.33
(1,1261)	1:33:A:LEU:H	1:32:A:GLU:HA	8	0.33
(1,1261)	1:33:A:LEU:H	1:32:A:GLU:HA	9	0.33
(1,1261)	1:33:A:LEU:H	1:32:A:GLU:HA	13	0.33
(1,1149)	1:27:A:PHE:HA	1:28:A:PRO:HD3	1	0.33
(1,1149)	1:27:A:PHE:HA	1:28:A:PRO:HD3	14	0.33
(1,1128)	1:61:A:LEU:HD11	1:37:A:TRP:HH2	14	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1128)	1:61:A:LEU:HD12	1:37:A:TRP:HH2	14	0.33
(1,1128)	1:61:A:LEU:HD13	1:37:A:TRP:HH2	14	0.33
(1,1101)	1:14:A:ASN:HD22	1:64:A:VAL:HG21	8	0.33
(1,1101)	1:14:A:ASN:HD22	1:64:A:VAL:HG22	8	0.33
(1,1101)	1:14:A:ASN:HD22	1:64:A:VAL:HG23	8	0.33
(1,1024)	1:42:A:SER:H	1:41:A:VAL:HB	5	0.33
(1,685)	1:80:A:ILE:H	1:65:A:HIS:HB3	5	0.33
(1,668)	1:76:A:ARG:H	1:75:A:VAL:HG21	9	0.33
(1,668)	1:76:A:ARG:H	1:75:A:VAL:HG22	9	0.33
(1,668)	1:76:A:ARG:H	1:75:A:VAL:HG23	9	0.33
(1,668)	1:76:A:ARG:H	1:75:A:VAL:HG21	13	0.33
(1,668)	1:76:A:ARG:H	1:75:A:VAL:HG22	13	0.33
(1,668)	1:76:A:ARG:H	1:75:A:VAL:HG23	13	0.33
(1,523)	1:56:A:THR:HA	1:57:A:THR:H	8	0.33
(1,523)	1:56:A:THR:HA	1:57:A:THR:H	11	0.33
(1,423)	1:28:A:PRO:HD3	1:27:A:PHE:HB2	14	0.33
(1,339)	1:42:A:SER:HB2	1:43:A:ARG:H	6	0.33
(1,339)	1:42:A:SER:HB2	1:43:A:ARG:H	7	0.33
(1,339)	1:42:A:SER:HB2	1:43:A:ARG:H	9	0.33
(1,339)	1:42:A:SER:HB2	1:43:A:ARG:H	11	0.33
(1,339)	1:42:A:SER:HB2	1:43:A:ARG:H	12	0.33
(1,339)	1:42:A:SER:HB2	1:43:A:ARG:H	16	0.33
(1,333)	1:16:A:SER:HB3	1:5:A:PHE:H	13	0.33
(1,266)	1:38:A:LEU:HB3	1:35:A:ARG:HA	5	0.33
(1,266)	1:38:A:LEU:HB3	1:35:A:ARG:HA	6	0.33
(1,266)	1:38:A:LEU:HB3	1:35:A:ARG:HA	11	0.33
(1,266)	1:38:A:LEU:HB3	1:35:A:ARG:HA	14	0.33
(1,266)	1:38:A:LEU:HB3	1:35:A:ARG:HA	16	0.33
(1,266)	1:38:A:LEU:HB3	1:35:A:ARG:HA	19	0.33
(1,54)	1:32:A:GLU:HA	1:33:A:LEU:H	8	0.33
(1,54)	1:32:A:GLU:HA	1:33:A:LEU:H	9	0.33
(1,54)	1:32:A:GLU:HA	1:33:A:LEU:H	13	0.33
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG21	6	0.32
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG22	6	0.32
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG23	6	0.32
(1,1391)	1:32:A:GLU:HA	1:34:A:ARG:H	14	0.32
(1,1391)	1:32:A:GLU:HA	1:34:A:ARG:H	15	0.32
(1,1391)	1:32:A:GLU:HA	1:34:A:ARG:H	16	0.32
(1,1391)	1:32:A:GLU:HA	1:34:A:ARG:H	19	0.32
(1,1375)	1:50:A:PHE:HA	1:51:A:SER:H	1	0.32
(1,1375)	1:50:A:PHE:HA	1:51:A:SER:H	2	0.32
(1,1375)	1:50:A:PHE:HA	1:51:A:SER:H	3	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1375)	1:50:A:PHE:HA	1:51:A:SER:H	6	0.32
(1,1375)	1:50:A:PHE:HA	1:51:A:SER:H	8	0.32
(1,1375)	1:50:A:PHE:HA	1:51:A:SER:H	10	0.32
(1,1375)	1:50:A:PHE:HA	1:51:A:SER:H	15	0.32
(1,1375)	1:50:A:PHE:HA	1:51:A:SER:H	16	0.32
(1,1329)	1:24:A:PHE:H	1:23:A:HIS:HA	2	0.32
(1,1329)	1:24:A:PHE:H	1:23:A:HIS:HA	7	0.32
(1,1329)	1:24:A:PHE:H	1:23:A:HIS:HA	10	0.32
(1,1318)	1:25:A:TYR:H	1:24:A:PHE:HA	2	0.32
(1,1318)	1:25:A:TYR:H	1:24:A:PHE:HA	16	0.32
(1,1303)	1:42:A:SER:HA	1:43:A:ARG:H	3	0.32
(1,1303)	1:42:A:SER:HA	1:43:A:ARG:H	4	0.32
(1,1303)	1:42:A:SER:HA	1:43:A:ARG:H	6	0.32
(1,1303)	1:42:A:SER:HA	1:43:A:ARG:H	17	0.32
(1,1303)	1:42:A:SER:HA	1:43:A:ARG:H	19	0.32
(1,1261)	1:33:A:LEU:H	1:32:A:GLU:HA	1	0.32
(1,1261)	1:33:A:LEU:H	1:32:A:GLU:HA	2	0.32
(1,1261)	1:33:A:LEU:H	1:32:A:GLU:HA	4	0.32
(1,1261)	1:33:A:LEU:H	1:32:A:GLU:HA	5	0.32
(1,1261)	1:33:A:LEU:H	1:32:A:GLU:HA	6	0.32
(1,1261)	1:33:A:LEU:H	1:32:A:GLU:HA	7	0.32
(1,1261)	1:33:A:LEU:H	1:32:A:GLU:HA	10	0.32
(1,1261)	1:33:A:LEU:H	1:32:A:GLU:HA	12	0.32
(1,1261)	1:33:A:LEU:H	1:32:A:GLU:HA	14	0.32
(1,1261)	1:33:A:LEU:H	1:32:A:GLU:HA	15	0.32
(1,1261)	1:33:A:LEU:H	1:32:A:GLU:HA	16	0.32
(1,1261)	1:33:A:LEU:H	1:32:A:GLU:HA	17	0.32
(1,1261)	1:33:A:LEU:H	1:32:A:GLU:HA	18	0.32
(1,1261)	1:33:A:LEU:H	1:32:A:GLU:HA	19	0.32
(1,1149)	1:27:A:PHE:HA	1:28:A:PRO:HD3	4	0.32
(1,1017)	1:59:A:HIS:HB3	1:27:A:PHE:HE1	5	0.32
(1,1017)	1:59:A:HIS:HB3	1:27:A:PHE:HE2	5	0.32
(1,862)	1:38:A:LEU:HA	1:39:A:LYS:H	5	0.32
(1,832)	1:34:A:ARG:H	1:32:A:GLU:HA	14	0.32
(1,832)	1:34:A:ARG:H	1:32:A:GLU:HA	15	0.32
(1,832)	1:34:A:ARG:H	1:32:A:GLU:HA	16	0.32
(1,832)	1:34:A:ARG:H	1:32:A:GLU:HA	19	0.32
(1,423)	1:28:A:PRO:HD3	1:27:A:PHE:HB2	8	0.32
(1,423)	1:28:A:PRO:HD3	1:27:A:PHE:HB2	11	0.32
(1,423)	1:28:A:PRO:HD3	1:27:A:PHE:HB2	17	0.32
(1,423)	1:28:A:PRO:HD3	1:27:A:PHE:HB2	18	0.32
(1,423)	1:28:A:PRO:HD3	1:27:A:PHE:HB2	19	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,339)	1:42:A:SER:HB2	1:43:A:ARG:H	2	0.32
(1,333)	1:16:A:SER:HB3	1:5:A:PHE:H	6	0.32
(1,333)	1:16:A:SER:HB3	1:5:A:PHE:H	11	0.32
(1,333)	1:16:A:SER:HB3	1:5:A:PHE:H	19	0.32
(1,295)	1:38:A:LEU:HB2	1:35:A:ARG:HA	18	0.32
(1,266)	1:38:A:LEU:HB3	1:35:A:ARG:HA	15	0.32
(1,266)	1:38:A:LEU:HB3	1:35:A:ARG:HA	17	0.32
(1,125)	1:36:A:LEU:HA	1:39:A:LYS:HG2	19	0.32
(1,54)	1:32:A:GLU:HA	1:33:A:LEU:H	1	0.32
(1,54)	1:32:A:GLU:HA	1:33:A:LEU:H	2	0.32
(1,54)	1:32:A:GLU:HA	1:33:A:LEU:H	4	0.32
(1,54)	1:32:A:GLU:HA	1:33:A:LEU:H	5	0.32
(1,54)	1:32:A:GLU:HA	1:33:A:LEU:H	6	0.32
(1,54)	1:32:A:GLU:HA	1:33:A:LEU:H	7	0.32
(1,54)	1:32:A:GLU:HA	1:33:A:LEU:H	10	0.32
(1,54)	1:32:A:GLU:HA	1:33:A:LEU:H	12	0.32
(1,54)	1:32:A:GLU:HA	1:33:A:LEU:H	14	0.32
(1,54)	1:32:A:GLU:HA	1:33:A:LEU:H	15	0.32
(1,54)	1:32:A:GLU:HA	1:33:A:LEU:H	16	0.32
(1,54)	1:32:A:GLU:HA	1:33:A:LEU:H	17	0.32
(1,54)	1:32:A:GLU:HA	1:33:A:LEU:H	18	0.32
(1,54)	1:32:A:GLU:HA	1:33:A:LEU:H	19	0.32
(1,1391)	1:32:A:GLU:HA	1:34:A:ARG:H	17	0.31
(1,1391)	1:32:A:GLU:HA	1:34:A:ARG:H	18	0.31
(1,1375)	1:50:A:PHE:HA	1:51:A:SER:H	4	0.31
(1,1375)	1:50:A:PHE:HA	1:51:A:SER:H	5	0.31
(1,1375)	1:50:A:PHE:HA	1:51:A:SER:H	7	0.31
(1,1375)	1:50:A:PHE:HA	1:51:A:SER:H	9	0.31
(1,1375)	1:50:A:PHE:HA	1:51:A:SER:H	13	0.31
(1,1375)	1:50:A:PHE:HA	1:51:A:SER:H	14	0.31
(1,1375)	1:50:A:PHE:HA	1:51:A:SER:H	17	0.31
(1,1375)	1:50:A:PHE:HA	1:51:A:SER:H	18	0.31
(1,1375)	1:50:A:PHE:HA	1:51:A:SER:H	19	0.31
(1,1329)	1:24:A:PHE:H	1:23:A:HIS:HA	18	0.31
(1,1261)	1:33:A:LEU:H	1:32:A:GLU:HA	3	0.31
(1,1261)	1:33:A:LEU:H	1:32:A:GLU:HA	11	0.31
(1,1149)	1:27:A:PHE:HA	1:28:A:PRO:HD3	16	0.31
(1,1101)	1:14:A:ASN:HD22	1:64:A:VAL:HG21	1	0.31
(1,1101)	1:14:A:ASN:HD22	1:64:A:VAL:HG22	1	0.31
(1,1101)	1:14:A:ASN:HD22	1:64:A:VAL:HG23	1	0.31
(1,832)	1:34:A:ARG:H	1:32:A:GLU:HA	17	0.31
(1,832)	1:34:A:ARG:H	1:32:A:GLU:HA	18	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,831)	1:34:A:ARG:H	1:36:A:LEU:H	13	0.31
(1,780)	1:66:A:PHE:H	1:65:A:HIS:HB3	16	0.31
(1,668)	1:76:A:ARG:H	1:75:A:VAL:HG21	5	0.31
(1,668)	1:76:A:ARG:H	1:75:A:VAL:HG22	5	0.31
(1,668)	1:76:A:ARG:H	1:75:A:VAL:HG23	5	0.31
(1,668)	1:76:A:ARG:H	1:75:A:VAL:HG21	7	0.31
(1,668)	1:76:A:ARG:H	1:75:A:VAL:HG22	7	0.31
(1,668)	1:76:A:ARG:H	1:75:A:VAL:HG23	7	0.31
(1,423)	1:28:A:PRO:HD3	1:27:A:PHE:HB2	6	0.31
(1,423)	1:28:A:PRO:HD3	1:27:A:PHE:HB2	15	0.31
(1,339)	1:42:A:SER:HB2	1:43:A:ARG:H	19	0.31
(1,125)	1:36:A:LEU:HA	1:39:A:LYS:HG2	7	0.31
(1,125)	1:36:A:LEU:HA	1:39:A:LYS:HG2	12	0.31
(1,125)	1:36:A:LEU:HA	1:39:A:LYS:HG2	13	0.31
(1,125)	1:36:A:LEU:HA	1:39:A:LYS:HG2	15	0.31
(1,125)	1:36:A:LEU:HA	1:39:A:LYS:HG2	17	0.31
(1,69)	1:40:A:ASN:HB2	1:37:A:TRP:HA	9	0.31
(1,54)	1:32:A:GLU:HA	1:33:A:LEU:H	3	0.31
(1,54)	1:32:A:GLU:HA	1:33:A:LEU:H	11	0.31
(1,1391)	1:32:A:GLU:HA	1:34:A:ARG:H	1	0.3
(1,1391)	1:32:A:GLU:HA	1:34:A:ARG:H	2	0.3
(1,1391)	1:32:A:GLU:HA	1:34:A:ARG:H	6	0.3
(1,1391)	1:32:A:GLU:HA	1:34:A:ARG:H	7	0.3
(1,1391)	1:32:A:GLU:HA	1:34:A:ARG:H	8	0.3
(1,1391)	1:32:A:GLU:HA	1:34:A:ARG:H	10	0.3
(1,1391)	1:32:A:GLU:HA	1:34:A:ARG:H	11	0.3
(1,1391)	1:32:A:GLU:HA	1:34:A:ARG:H	12	0.3
(1,1329)	1:24:A:PHE:H	1:23:A:HIS:HA	3	0.3
(1,1329)	1:24:A:PHE:H	1:23:A:HIS:HA	6	0.3
(1,1329)	1:24:A:PHE:H	1:23:A:HIS:HA	11	0.3
(1,1329)	1:24:A:PHE:H	1:23:A:HIS:HA	12	0.3
(1,1329)	1:24:A:PHE:H	1:23:A:HIS:HA	15	0.3
(1,832)	1:34:A:ARG:H	1:32:A:GLU:HA	1	0.3
(1,832)	1:34:A:ARG:H	1:32:A:GLU:HA	2	0.3
(1,832)	1:34:A:ARG:H	1:32:A:GLU:HA	6	0.3
(1,832)	1:34:A:ARG:H	1:32:A:GLU:HA	7	0.3
(1,832)	1:34:A:ARG:H	1:32:A:GLU:HA	8	0.3
(1,832)	1:34:A:ARG:H	1:32:A:GLU:HA	10	0.3
(1,832)	1:34:A:ARG:H	1:32:A:GLU:HA	11	0.3
(1,832)	1:34:A:ARG:H	1:32:A:GLU:HA	12	0.3
(1,685)	1:80:A:ILE:H	1:65:A:HIS:HB3	14	0.3
(1,668)	1:76:A:ARG:H	1:75:A:VAL:HG21	2	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,668)	1:76:A:ARG:H	1:75:A:VAL:HG22	2	0.3
(1,668)	1:76:A:ARG:H	1:75:A:VAL:HG23	2	0.3
(1,668)	1:76:A:ARG:H	1:75:A:VAL:HG21	12	0.3
(1,668)	1:76:A:ARG:H	1:75:A:VAL:HG22	12	0.3
(1,668)	1:76:A:ARG:H	1:75:A:VAL:HG23	12	0.3
(1,423)	1:28:A:PRO:HD3	1:27:A:PHE:HB2	10	0.3
(1,333)	1:16:A:SER:HB3	1:5:A:PHE:H	14	0.3
(1,295)	1:38:A:LEU:HB2	1:35:A:ARG:HA	3	0.3
(1,125)	1:36:A:LEU:HA	1:39:A:LYS:HG2	2	0.3
(1,125)	1:36:A:LEU:HA	1:39:A:LYS:HG2	3	0.3
(1,125)	1:36:A:LEU:HA	1:39:A:LYS:HG2	8	0.3
(1,125)	1:36:A:LEU:HA	1:39:A:LYS:HG2	14	0.3
(1,125)	1:36:A:LEU:HA	1:39:A:LYS:HG2	16	0.3
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG21	5	0.29
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG22	5	0.29
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG23	5	0.29
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG21	15	0.29
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG22	15	0.29
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG23	15	0.29
(1,1550)	1:27:A:PHE:HE1	1:38:A:LEU:HA	2	0.29
(1,1550)	1:27:A:PHE:HE2	1:38:A:LEU:HA	2	0.29
(1,1391)	1:32:A:GLU:HA	1:34:A:ARG:H	4	0.29
(1,1391)	1:32:A:GLU:HA	1:34:A:ARG:H	5	0.29
(1,1329)	1:24:A:PHE:H	1:23:A:HIS:HA	4	0.29
(1,1329)	1:24:A:PHE:H	1:23:A:HIS:HA	14	0.29
(1,1329)	1:24:A:PHE:H	1:23:A:HIS:HA	17	0.29
(1,1329)	1:24:A:PHE:H	1:23:A:HIS:HA	19	0.29
(1,1303)	1:42:A:SER:HA	1:43:A:ARG:H	5	0.29
(1,1270)	1:19:A:ASP:HB3	1:22:A:LEU:HD21	3	0.29
(1,1270)	1:19:A:ASP:HB3	1:22:A:LEU:HD22	3	0.29
(1,1270)	1:19:A:ASP:HB3	1:22:A:LEU:HD23	3	0.29
(1,1266)	1:43:A:ARG:H	1:42:A:SER:H	19	0.29
(1,832)	1:34:A:ARG:H	1:32:A:GLU:HA	4	0.29
(1,832)	1:34:A:ARG:H	1:32:A:GLU:HA	5	0.29
(1,831)	1:34:A:ARG:H	1:36:A:LEU:H	9	0.29
(1,780)	1:66:A:PHE:H	1:65:A:HIS:HB3	14	0.29
(1,685)	1:80:A:ILE:H	1:65:A:HIS:HB3	8	0.29
(1,668)	1:76:A:ARG:H	1:75:A:VAL:HG21	6	0.29
(1,668)	1:76:A:ARG:H	1:75:A:VAL:HG22	6	0.29
(1,668)	1:76:A:ARG:H	1:75:A:VAL:HG23	6	0.29
(1,668)	1:76:A:ARG:H	1:75:A:VAL:HG21	15	0.29
(1,668)	1:76:A:ARG:H	1:75:A:VAL:HG22	15	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,668)	1:76:A:ARG:H	1:75:A:VAL:HG23	15	0.29
(1,423)	1:28:A:PRO:HD3	1:27:A:PHE:HB2	9	0.29
(1,423)	1:28:A:PRO:HD3	1:27:A:PHE:HB2	12	0.29
(1,423)	1:28:A:PRO:HD3	1:27:A:PHE:HB2	13	0.29
(1,333)	1:16:A:SER:HB3	1:5:A:PHE:H	12	0.29
(1,174)	1:33:A:LEU:HG	1:28:A:PRO:HG2	5	0.29
(1,174)	1:33:A:LEU:HG	1:28:A:PRO:HG2	7	0.29
(1,125)	1:36:A:LEU:HA	1:39:A:LYS:HG2	1	0.29
(1,125)	1:36:A:LEU:HA	1:39:A:LYS:HG2	4	0.29
(1,125)	1:36:A:LEU:HA	1:39:A:LYS:HG2	11	0.29
(1,1633)	1:63:A:SER:HB2	1:13:A:TYR:HA	7	0.28
(1,1632)	1:13:A:TYR:HA	1:63:A:SER:HB2	7	0.28
(1,1391)	1:32:A:GLU:HA	1:34:A:ARG:H	3	0.28
(1,1329)	1:24:A:PHE:H	1:23:A:HIS:HA	1	0.28
(1,1329)	1:24:A:PHE:H	1:23:A:HIS:HA	5	0.28
(1,1329)	1:24:A:PHE:H	1:23:A:HIS:HA	8	0.28
(1,1329)	1:24:A:PHE:H	1:23:A:HIS:HA	9	0.28
(1,1270)	1:19:A:ASP:HB3	1:22:A:LEU:HD21	9	0.28
(1,1270)	1:19:A:ASP:HB3	1:22:A:LEU:HD22	9	0.28
(1,1270)	1:19:A:ASP:HB3	1:22:A:LEU:HD23	9	0.28
(1,1266)	1:43:A:ARG:H	1:42:A:SER:H	6	0.28
(1,1148)	1:27:A:PHE:HA	1:28:A:PRO:HD2	18	0.28
(1,1017)	1:59:A:HIS:HB3	1:27:A:PHE:HE1	3	0.28
(1,1017)	1:59:A:HIS:HB3	1:27:A:PHE:HE2	3	0.28
(1,832)	1:34:A:ARG:H	1:32:A:GLU:HA	3	0.28
(1,654)	1:48:A:GLY:H	1:47:A:SER:HB2	12	0.28
(1,477)	1:14:A:ASN:HB3	1:22:A:LEU:HD21	18	0.28
(1,477)	1:14:A:ASN:HB3	1:22:A:LEU:HD22	18	0.28
(1,477)	1:14:A:ASN:HB3	1:22:A:LEU:HD23	18	0.28
(1,204)	1:22:A:LEU:HD21	1:62:A:CYS:HB3	14	0.28
(1,204)	1:22:A:LEU:HD22	1:62:A:CYS:HB3	14	0.28
(1,204)	1:22:A:LEU:HD23	1:62:A:CYS:HB3	14	0.28
(1,187)	1:62:A:CYS:HB3	1:22:A:LEU:HD21	14	0.28
(1,187)	1:62:A:CYS:HB3	1:22:A:LEU:HD22	14	0.28
(1,187)	1:62:A:CYS:HB3	1:22:A:LEU:HD23	14	0.28
(1,125)	1:36:A:LEU:HA	1:39:A:LYS:HG2	5	0.28
(1,125)	1:36:A:LEU:HA	1:39:A:LYS:HG2	10	0.28
(1,125)	1:36:A:LEU:HA	1:39:A:LYS:HG2	18	0.28
(1,57)	1:32:A:GLU:HA	1:36:A:LEU:H	9	0.28
(1,57)	1:32:A:GLU:HA	1:36:A:LEU:H	13	0.28
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG21	10	0.27
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG22	10	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG23	10	0.27
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG21	11	0.27
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG22	11	0.27
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG23	11	0.27
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG21	16	0.27
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG22	16	0.27
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG23	16	0.27
(1,1555)	1:5:A:PHE:HA	1:6:A:THR:H	7	0.27
(1,1446)	1:66:A:PHE:HZ	1:61:A:LEU:HD21	19	0.27
(1,1446)	1:66:A:PHE:HZ	1:61:A:LEU:HD22	19	0.27
(1,1446)	1:66:A:PHE:HZ	1:61:A:LEU:HD23	19	0.27
(1,1266)	1:43:A:ARG:H	1:42:A:SER:H	3	0.27
(1,1148)	1:27:A:PHE:HA	1:28:A:PRO:HD2	4	0.27
(1,1148)	1:27:A:PHE:HA	1:28:A:PRO:HD2	11	0.27
(1,1148)	1:27:A:PHE:HA	1:28:A:PRO:HD2	19	0.27
(1,831)	1:34:A:ARG:H	1:36:A:LEU:H	1	0.27
(1,831)	1:34:A:ARG:H	1:36:A:LEU:H	2	0.27
(1,831)	1:34:A:ARG:H	1:36:A:LEU:H	8	0.27
(1,831)	1:34:A:ARG:H	1:36:A:LEU:H	12	0.27
(1,831)	1:34:A:ARG:H	1:36:A:LEU:H	15	0.27
(1,653)	1:48:A:GLY:H	1:47:A:SER:HB2	3	0.27
(1,592)	1:5:A:PHE:H	1:16:A:SER:HA	7	0.27
(1,333)	1:16:A:SER:HB3	1:5:A:PHE:H	10	0.27
(1,333)	1:16:A:SER:HB3	1:5:A:PHE:H	15	0.27
(1,333)	1:16:A:SER:HB3	1:5:A:PHE:H	18	0.27
(1,204)	1:22:A:LEU:HD21	1:62:A:CYS:HB3	12	0.27
(1,204)	1:22:A:LEU:HD22	1:62:A:CYS:HB3	12	0.27
(1,204)	1:22:A:LEU:HD23	1:62:A:CYS:HB3	12	0.27
(1,187)	1:62:A:CYS:HB3	1:22:A:LEU:HD21	12	0.27
(1,187)	1:62:A:CYS:HB3	1:22:A:LEU:HD22	12	0.27
(1,187)	1:62:A:CYS:HB3	1:22:A:LEU:HD23	12	0.27
(1,125)	1:36:A:LEU:HA	1:39:A:LYS:HG2	6	0.27
(1,125)	1:36:A:LEU:HA	1:39:A:LYS:HG2	9	0.27
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG21	13	0.26
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG22	13	0.26
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG23	13	0.26
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG21	14	0.26
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG22	14	0.26
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG23	14	0.26
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG21	1	0.26
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG22	1	0.26
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG23	1	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG21	4	0.26
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG22	4	0.26
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG23	4	0.26
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG21	5	0.26
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG22	5	0.26
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG23	5	0.26
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG21	7	0.26
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG22	7	0.26
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG23	7	0.26
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG21	9	0.26
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG22	9	0.26
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG23	9	0.26
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG21	11	0.26
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG22	11	0.26
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG23	11	0.26
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG21	13	0.26
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG22	13	0.26
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG23	13	0.26
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG21	14	0.26
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG22	14	0.26
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG23	14	0.26
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG21	15	0.26
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG22	15	0.26
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG23	15	0.26
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG21	16	0.26
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG22	16	0.26
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG23	16	0.26
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG21	17	0.26
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG22	17	0.26
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG23	17	0.26
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG21	18	0.26
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG22	18	0.26
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG23	18	0.26
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG21	19	0.26
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG22	19	0.26
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG23	19	0.26
(1,1548)	1:57:A:THR:HG21	1:59:A:HIS:HE1	1	0.26
(1,1548)	1:57:A:THR:HG22	1:59:A:HIS:HE1	1	0.26
(1,1548)	1:57:A:THR:HG23	1:59:A:HIS:HE1	1	0.26
(1,1548)	1:57:A:THR:HG21	1:59:A:HIS:HE1	4	0.26
(1,1548)	1:57:A:THR:HG22	1:59:A:HIS:HE1	4	0.26
(1,1548)	1:57:A:THR:HG23	1:59:A:HIS:HE1	4	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1548)	1:57:A:THR:HG21	1:59:A:HIS:HE1	5	0.26
(1,1548)	1:57:A:THR:HG22	1:59:A:HIS:HE1	5	0.26
(1,1548)	1:57:A:THR:HG23	1:59:A:HIS:HE1	5	0.26
(1,1548)	1:57:A:THR:HG21	1:59:A:HIS:HE1	7	0.26
(1,1548)	1:57:A:THR:HG22	1:59:A:HIS:HE1	7	0.26
(1,1548)	1:57:A:THR:HG23	1:59:A:HIS:HE1	7	0.26
(1,1548)	1:57:A:THR:HG21	1:59:A:HIS:HE1	9	0.26
(1,1548)	1:57:A:THR:HG22	1:59:A:HIS:HE1	9	0.26
(1,1548)	1:57:A:THR:HG23	1:59:A:HIS:HE1	9	0.26
(1,1548)	1:57:A:THR:HG21	1:59:A:HIS:HE1	11	0.26
(1,1548)	1:57:A:THR:HG22	1:59:A:HIS:HE1	11	0.26
(1,1548)	1:57:A:THR:HG23	1:59:A:HIS:HE1	11	0.26
(1,1548)	1:57:A:THR:HG21	1:59:A:HIS:HE1	13	0.26
(1,1548)	1:57:A:THR:HG22	1:59:A:HIS:HE1	13	0.26
(1,1548)	1:57:A:THR:HG23	1:59:A:HIS:HE1	13	0.26
(1,1548)	1:57:A:THR:HG21	1:59:A:HIS:HE1	14	0.26
(1,1548)	1:57:A:THR:HG22	1:59:A:HIS:HE1	14	0.26
(1,1548)	1:57:A:THR:HG23	1:59:A:HIS:HE1	14	0.26
(1,1548)	1:57:A:THR:HG21	1:59:A:HIS:HE1	15	0.26
(1,1548)	1:57:A:THR:HG22	1:59:A:HIS:HE1	15	0.26
(1,1548)	1:57:A:THR:HG23	1:59:A:HIS:HE1	15	0.26
(1,1548)	1:57:A:THR:HG21	1:59:A:HIS:HE1	16	0.26
(1,1548)	1:57:A:THR:HG22	1:59:A:HIS:HE1	16	0.26
(1,1548)	1:57:A:THR:HG23	1:59:A:HIS:HE1	16	0.26
(1,1548)	1:57:A:THR:HG21	1:59:A:HIS:HE1	17	0.26
(1,1548)	1:57:A:THR:HG22	1:59:A:HIS:HE1	17	0.26
(1,1548)	1:57:A:THR:HG23	1:59:A:HIS:HE1	17	0.26
(1,1548)	1:57:A:THR:HG21	1:59:A:HIS:HE1	18	0.26
(1,1548)	1:57:A:THR:HG22	1:59:A:HIS:HE1	18	0.26
(1,1548)	1:57:A:THR:HG23	1:59:A:HIS:HE1	18	0.26
(1,1548)	1:57:A:THR:HG21	1:59:A:HIS:HE1	19	0.26
(1,1548)	1:57:A:THR:HG22	1:59:A:HIS:HE1	19	0.26
(1,1548)	1:57:A:THR:HG23	1:59:A:HIS:HE1	19	0.26
(1,1524)	1:16:A:SER:HA	1:24:A:PHE:HD1	8	0.26
(1,1524)	1:16:A:SER:HA	1:24:A:PHE:HD2	8	0.26
(1,1334)	1:36:A:LEU:H	1:34:A:ARG:H	17	0.26
(1,1329)	1:24:A:PHE:H	1:23:A:HIS:HA	13	0.26
(1,1329)	1:24:A:PHE:H	1:23:A:HIS:HA	16	0.26
(1,1148)	1:27:A:PHE:HA	1:28:A:PRO:HD2	15	0.26
(1,968)	1:16:A:SER:HB2	1:42:A:SER:HB3	19	0.26
(1,870)	1:42:A:SER:HB3	1:16:A:SER:HB2	19	0.26
(1,831)	1:34:A:ARG:H	1:36:A:LEU:H	3	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,831)	1:34:A:ARG:H	1:36:A:LEU:H	5	0.26
(1,831)	1:34:A:ARG:H	1:36:A:LEU:H	6	0.26
(1,831)	1:34:A:ARG:H	1:36:A:LEU:H	10	0.26
(1,831)	1:34:A:ARG:H	1:36:A:LEU:H	14	0.26
(1,831)	1:34:A:ARG:H	1:36:A:LEU:H	16	0.26
(1,831)	1:34:A:ARG:H	1:36:A:LEU:H	18	0.26
(1,831)	1:34:A:ARG:H	1:36:A:LEU:H	19	0.26
(1,747)	1:22:A:LEU:H	1:19:A:ASP:HA	3	0.26
(1,685)	1:80:A:ILE:H	1:65:A:HIS:HB3	1	0.26
(1,685)	1:80:A:ILE:H	1:65:A:HIS:HB3	12	0.26
(1,654)	1:48:A:GLY:H	1:47:A:SER:HB2	2	0.26
(1,654)	1:48:A:GLY:H	1:47:A:SER:HB2	4	0.26
(1,654)	1:48:A:GLY:H	1:47:A:SER:HB2	8	0.26
(1,654)	1:48:A:GLY:H	1:47:A:SER:HB2	9	0.26
(1,654)	1:48:A:GLY:H	1:47:A:SER:HB2	11	0.26
(1,654)	1:48:A:GLY:H	1:47:A:SER:HB2	16	0.26
(1,653)	1:48:A:GLY:H	1:47:A:SER:HB2	13	0.26
(1,653)	1:48:A:GLY:H	1:47:A:SER:HB2	19	0.26
(1,652)	1:48:A:GLY:H	1:47:A:SER:HA	3	0.26
(1,652)	1:48:A:GLY:H	1:47:A:SER:HA	6	0.26
(1,640)	1:36:A:LEU:H	1:34:A:ARG:H	17	0.26
(1,381)	1:28:A:PRO:HD2	1:37:A:TRP:HZ3	8	0.26
(1,198)	1:16:A:SER:HA	1:24:A:PHE:HD1	8	0.26
(1,198)	1:16:A:SER:HA	1:24:A:PHE:HD2	8	0.26
(1,174)	1:33:A:LEU:HG	1:28:A:PRO:HG2	2	0.26
(1,155)	1:47:A:SER:HA	1:48:A:GLY:H	3	0.26
(1,155)	1:47:A:SER:HA	1:48:A:GLY:H	6	0.26
(1,29)	1:41:A:VAL:HG11	1:38:A:LEU:HA	19	0.26
(1,29)	1:41:A:VAL:HG12	1:38:A:LEU:HA	19	0.26
(1,29)	1:41:A:VAL:HG13	1:38:A:LEU:HA	19	0.26
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG21	18	0.25
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG22	18	0.25
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG23	18	0.25
(1,1640)	1:57:A:THR:HG21	1:59:A:HIS:HE1	2	0.25
(1,1640)	1:57:A:THR:HG22	1:59:A:HIS:HE1	2	0.25
(1,1640)	1:57:A:THR:HG23	1:59:A:HIS:HE1	2	0.25
(1,1640)	1:57:A:THR:HG21	1:59:A:HIS:HE1	3	0.25
(1,1640)	1:57:A:THR:HG22	1:59:A:HIS:HE1	3	0.25
(1,1640)	1:57:A:THR:HG23	1:59:A:HIS:HE1	3	0.25
(1,1640)	1:57:A:THR:HG21	1:59:A:HIS:HE1	6	0.25
(1,1640)	1:57:A:THR:HG22	1:59:A:HIS:HE1	6	0.25
(1,1640)	1:57:A:THR:HG23	1:59:A:HIS:HE1	6	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1640)	1:57:A:THR:HG21	1:59:A:HIS:HE1	8	0.25
(1,1640)	1:57:A:THR:HG22	1:59:A:HIS:HE1	8	0.25
(1,1640)	1:57:A:THR:HG23	1:59:A:HIS:HE1	8	0.25
(1,1640)	1:57:A:THR:HG21	1:59:A:HIS:HE1	10	0.25
(1,1640)	1:57:A:THR:HG22	1:59:A:HIS:HE1	10	0.25
(1,1640)	1:57:A:THR:HG23	1:59:A:HIS:HE1	10	0.25
(1,1640)	1:57:A:THR:HG21	1:59:A:HIS:HE1	12	0.25
(1,1640)	1:57:A:THR:HG22	1:59:A:HIS:HE1	12	0.25
(1,1640)	1:57:A:THR:HG23	1:59:A:HIS:HE1	12	0.25
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG21	2	0.25
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG22	2	0.25
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG23	2	0.25
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG21	3	0.25
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG22	3	0.25
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG23	3	0.25
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG21	6	0.25
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG22	6	0.25
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG23	6	0.25
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG21	8	0.25
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG22	8	0.25
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG23	8	0.25
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG21	10	0.25
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG22	10	0.25
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG23	10	0.25
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG21	12	0.25
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG22	12	0.25
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG23	12	0.25
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG21	2	0.25
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG22	2	0.25
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG23	2	0.25
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG21	3	0.25
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG22	3	0.25
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG23	3	0.25
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG21	6	0.25
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG22	6	0.25
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG23	6	0.25
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG21	8	0.25
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG22	8	0.25
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG23	8	0.25
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG21	10	0.25
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG22	10	0.25
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG23	10	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG21	12	0.25
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG22	12	0.25
(1,1549)	1:59:A:HIS:HE1	1:57:A:THR:HG23	12	0.25
(1,1548)	1:57:A:THR:HG21	1:59:A:HIS:HE1	2	0.25
(1,1548)	1:57:A:THR:HG22	1:59:A:HIS:HE1	2	0.25
(1,1548)	1:57:A:THR:HG23	1:59:A:HIS:HE1	2	0.25
(1,1548)	1:57:A:THR:HG21	1:59:A:HIS:HE1	3	0.25
(1,1548)	1:57:A:THR:HG22	1:59:A:HIS:HE1	3	0.25
(1,1548)	1:57:A:THR:HG23	1:59:A:HIS:HE1	3	0.25
(1,1548)	1:57:A:THR:HG21	1:59:A:HIS:HE1	6	0.25
(1,1548)	1:57:A:THR:HG22	1:59:A:HIS:HE1	6	0.25
(1,1548)	1:57:A:THR:HG23	1:59:A:HIS:HE1	6	0.25
(1,1548)	1:57:A:THR:HG21	1:59:A:HIS:HE1	8	0.25
(1,1548)	1:57:A:THR:HG22	1:59:A:HIS:HE1	8	0.25
(1,1548)	1:57:A:THR:HG23	1:59:A:HIS:HE1	8	0.25
(1,1548)	1:57:A:THR:HG21	1:59:A:HIS:HE1	10	0.25
(1,1548)	1:57:A:THR:HG22	1:59:A:HIS:HE1	10	0.25
(1,1548)	1:57:A:THR:HG23	1:59:A:HIS:HE1	10	0.25
(1,1548)	1:57:A:THR:HG21	1:59:A:HIS:HE1	12	0.25
(1,1548)	1:57:A:THR:HG22	1:59:A:HIS:HE1	12	0.25
(1,1548)	1:57:A:THR:HG23	1:59:A:HIS:HE1	12	0.25
(1,1355)	1:9:A:VAL:HG11	1:65:A:HIS:HE1	3	0.25
(1,1355)	1:9:A:VAL:HG12	1:65:A:HIS:HE1	3	0.25
(1,1355)	1:9:A:VAL:HG13	1:65:A:HIS:HE1	3	0.25
(1,1334)	1:36:A:LEU:H	1:34:A:ARG:H	4	0.25
(1,1334)	1:36:A:LEU:H	1:34:A:ARG:H	7	0.25
(1,1334)	1:36:A:LEU:H	1:34:A:ARG:H	11	0.25
(1,1298)	1:27:A:PHE:HE1	1:37:A:TRP:HE3	12	0.25
(1,1298)	1:27:A:PHE:HE2	1:37:A:TRP:HE3	12	0.25
(1,1270)	1:19:A:ASP:HB3	1:22:A:LEU:HD21	5	0.25
(1,1270)	1:19:A:ASP:HB3	1:22:A:LEU:HD22	5	0.25
(1,1270)	1:19:A:ASP:HB3	1:22:A:LEU:HD23	5	0.25
(1,1148)	1:27:A:PHE:HA	1:28:A:PRO:HD2	1	0.25
(1,1148)	1:27:A:PHE:HA	1:28:A:PRO:HD2	6	0.25
(1,1148)	1:27:A:PHE:HA	1:28:A:PRO:HD2	8	0.25
(1,1148)	1:27:A:PHE:HA	1:28:A:PRO:HD2	10	0.25
(1,1148)	1:27:A:PHE:HA	1:28:A:PRO:HD2	17	0.25
(1,968)	1:16:A:SER:HB2	1:42:A:SER:HB3	16	0.25
(1,870)	1:42:A:SER:HB3	1:16:A:SER:HB2	16	0.25
(1,831)	1:34:A:ARG:H	1:36:A:LEU:H	4	0.25
(1,831)	1:34:A:ARG:H	1:36:A:LEU:H	7	0.25
(1,831)	1:34:A:ARG:H	1:36:A:LEU:H	11	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,780)	1:66:A:PHE:H	1:65:A:HIS:HB3	8	0.25
(1,654)	1:48:A:GLY:H	1:47:A:SER:HB2	1	0.25
(1,654)	1:48:A:GLY:H	1:47:A:SER:HB2	5	0.25
(1,654)	1:48:A:GLY:H	1:47:A:SER:HB2	6	0.25
(1,654)	1:48:A:GLY:H	1:47:A:SER:HB2	7	0.25
(1,654)	1:48:A:GLY:H	1:47:A:SER:HB2	10	0.25
(1,654)	1:48:A:GLY:H	1:47:A:SER:HB2	14	0.25
(1,654)	1:48:A:GLY:H	1:47:A:SER:HB2	15	0.25
(1,654)	1:48:A:GLY:H	1:47:A:SER:HB2	17	0.25
(1,654)	1:48:A:GLY:H	1:47:A:SER:HB2	18	0.25
(1,653)	1:48:A:GLY:H	1:47:A:SER:HB2	1	0.25
(1,653)	1:48:A:GLY:H	1:47:A:SER:HB2	5	0.25
(1,653)	1:48:A:GLY:H	1:47:A:SER:HB2	6	0.25
(1,653)	1:48:A:GLY:H	1:47:A:SER:HB2	7	0.25
(1,653)	1:48:A:GLY:H	1:47:A:SER:HB2	10	0.25
(1,653)	1:48:A:GLY:H	1:47:A:SER:HB2	14	0.25
(1,653)	1:48:A:GLY:H	1:47:A:SER:HB2	15	0.25
(1,653)	1:48:A:GLY:H	1:47:A:SER:HB2	17	0.25
(1,653)	1:48:A:GLY:H	1:47:A:SER:HB2	18	0.25
(1,652)	1:48:A:GLY:H	1:47:A:SER:HA	1	0.25
(1,652)	1:48:A:GLY:H	1:47:A:SER:HA	19	0.25
(1,640)	1:36:A:LEU:H	1:34:A:ARG:H	4	0.25
(1,640)	1:36:A:LEU:H	1:34:A:ARG:H	7	0.25
(1,640)	1:36:A:LEU:H	1:34:A:ARG:H	11	0.25
(1,592)	1:5:A:PHE:H	1:16:A:SER:HA	8	0.25
(1,381)	1:28:A:PRO:HD2	1:37:A:TRP:HZ3	13	0.25
(1,381)	1:28:A:PRO:HD2	1:37:A:TRP:HZ3	18	0.25
(1,293)	1:45:A:GLY:HA2	1:46:A:VAL:H	19	0.25
(1,244)	1:22:A:LEU:HD11	1:14:A:ASN:HD22	4	0.25
(1,244)	1:22:A:LEU:HD12	1:14:A:ASN:HD22	4	0.25
(1,244)	1:22:A:LEU:HD13	1:14:A:ASN:HD22	4	0.25
(1,174)	1:33:A:LEU:HG	1:28:A:PRO:HG2	3	0.25
(1,155)	1:47:A:SER:HA	1:48:A:GLY:H	1	0.25
(1,155)	1:47:A:SER:HA	1:48:A:GLY:H	19	0.25
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG21	9	0.24
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG22	9	0.24
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG23	9	0.24
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG21	12	0.24
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG22	12	0.24
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG23	12	0.24
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG21	17	0.24
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG22	17	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG23	17	0.24
(1,1640)	1:57:A:THR:HG21	1:59:A:HIS:HE1	1	0.24
(1,1640)	1:57:A:THR:HG22	1:59:A:HIS:HE1	1	0.24
(1,1640)	1:57:A:THR:HG23	1:59:A:HIS:HE1	1	0.24
(1,1640)	1:57:A:THR:HG21	1:59:A:HIS:HE1	4	0.24
(1,1640)	1:57:A:THR:HG22	1:59:A:HIS:HE1	4	0.24
(1,1640)	1:57:A:THR:HG23	1:59:A:HIS:HE1	4	0.24
(1,1640)	1:57:A:THR:HG21	1:59:A:HIS:HE1	5	0.24
(1,1640)	1:57:A:THR:HG22	1:59:A:HIS:HE1	5	0.24
(1,1640)	1:57:A:THR:HG23	1:59:A:HIS:HE1	5	0.24
(1,1640)	1:57:A:THR:HG21	1:59:A:HIS:HE1	7	0.24
(1,1640)	1:57:A:THR:HG22	1:59:A:HIS:HE1	7	0.24
(1,1640)	1:57:A:THR:HG23	1:59:A:HIS:HE1	7	0.24
(1,1640)	1:57:A:THR:HG21	1:59:A:HIS:HE1	9	0.24
(1,1640)	1:57:A:THR:HG22	1:59:A:HIS:HE1	9	0.24
(1,1640)	1:57:A:THR:HG23	1:59:A:HIS:HE1	9	0.24
(1,1640)	1:57:A:THR:HG21	1:59:A:HIS:HE1	11	0.24
(1,1640)	1:57:A:THR:HG22	1:59:A:HIS:HE1	11	0.24
(1,1640)	1:57:A:THR:HG23	1:59:A:HIS:HE1	11	0.24
(1,1640)	1:57:A:THR:HG21	1:59:A:HIS:HE1	13	0.24
(1,1640)	1:57:A:THR:HG22	1:59:A:HIS:HE1	13	0.24
(1,1640)	1:57:A:THR:HG23	1:59:A:HIS:HE1	13	0.24
(1,1640)	1:57:A:THR:HG21	1:59:A:HIS:HE1	14	0.24
(1,1640)	1:57:A:THR:HG22	1:59:A:HIS:HE1	14	0.24
(1,1640)	1:57:A:THR:HG23	1:59:A:HIS:HE1	14	0.24
(1,1640)	1:57:A:THR:HG21	1:59:A:HIS:HE1	15	0.24
(1,1640)	1:57:A:THR:HG22	1:59:A:HIS:HE1	15	0.24
(1,1640)	1:57:A:THR:HG23	1:59:A:HIS:HE1	15	0.24
(1,1640)	1:57:A:THR:HG21	1:59:A:HIS:HE1	16	0.24
(1,1640)	1:57:A:THR:HG22	1:59:A:HIS:HE1	16	0.24
(1,1640)	1:57:A:THR:HG23	1:59:A:HIS:HE1	16	0.24
(1,1640)	1:57:A:THR:HG21	1:59:A:HIS:HE1	17	0.24
(1,1640)	1:57:A:THR:HG22	1:59:A:HIS:HE1	17	0.24
(1,1640)	1:57:A:THR:HG23	1:59:A:HIS:HE1	17	0.24
(1,1640)	1:57:A:THR:HG21	1:59:A:HIS:HE1	18	0.24
(1,1640)	1:57:A:THR:HG22	1:59:A:HIS:HE1	18	0.24
(1,1640)	1:57:A:THR:HG23	1:59:A:HIS:HE1	18	0.24
(1,1640)	1:57:A:THR:HG21	1:59:A:HIS:HE1	19	0.24
(1,1640)	1:57:A:THR:HG22	1:59:A:HIS:HE1	19	0.24
(1,1640)	1:57:A:THR:HG23	1:59:A:HIS:HE1	19	0.24
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG21	1	0.24
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG22	1	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG23	1	0.24
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG21	4	0.24
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG22	4	0.24
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG23	4	0.24
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG21	5	0.24
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG22	5	0.24
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG23	5	0.24
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG21	7	0.24
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG22	7	0.24
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG23	7	0.24
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG21	9	0.24
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG22	9	0.24
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG23	9	0.24
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG21	11	0.24
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG22	11	0.24
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG23	11	0.24
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG21	13	0.24
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG22	13	0.24
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG23	13	0.24
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG21	14	0.24
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG22	14	0.24
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG23	14	0.24
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG21	15	0.24
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG22	15	0.24
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG23	15	0.24
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG21	16	0.24
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG22	16	0.24
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG23	16	0.24
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG21	17	0.24
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG22	17	0.24
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG23	17	0.24
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG21	18	0.24
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG22	18	0.24
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG23	18	0.24
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG21	19	0.24
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG22	19	0.24
(1,1639)	1:59:A:HIS:HE1	1:57:A:THR:HG23	19	0.24
(1,1606)	1:14:A:ASN:HB2	1:24:A:PHE:HZ	1	0.24
(1,1606)	1:14:A:ASN:HB2	1:24:A:PHE:HZ	8	0.24
(1,1604)	1:24:A:PHE:HZ	1:14:A:ASN:HB2	1	0.24
(1,1604)	1:24:A:PHE:HZ	1:14:A:ASN:HB2	8	0.24
(1,1550)	1:27:A:PHE:HE1	1:38:A:LEU:HA	7	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1550)	1:27:A:PHE:HE2	1:38:A:LEU:HA	7	0.24
(1,1334)	1:36:A:LEU:H	1:34:A:ARG:H	3	0.24
(1,1334)	1:36:A:LEU:H	1:34:A:ARG:H	5	0.24
(1,1334)	1:36:A:LEU:H	1:34:A:ARG:H	6	0.24
(1,1334)	1:36:A:LEU:H	1:34:A:ARG:H	10	0.24
(1,1334)	1:36:A:LEU:H	1:34:A:ARG:H	14	0.24
(1,1334)	1:36:A:LEU:H	1:34:A:ARG:H	16	0.24
(1,1334)	1:36:A:LEU:H	1:34:A:ARG:H	18	0.24
(1,1334)	1:36:A:LEU:H	1:34:A:ARG:H	19	0.24
(1,1325)	1:19:A:ASP:H	1:18:A:ARG:HB2	7	0.24
(1,1298)	1:27:A:PHE:HE1	1:37:A:TRP:HE3	10	0.24
(1,1298)	1:27:A:PHE:HE2	1:37:A:TRP:HE3	10	0.24
(1,1270)	1:19:A:ASP:HB3	1:22:A:LEU:HD21	13	0.24
(1,1270)	1:19:A:ASP:HB3	1:22:A:LEU:HD22	13	0.24
(1,1270)	1:19:A:ASP:HB3	1:22:A:LEU:HD23	13	0.24
(1,1266)	1:43:A:ARG:H	1:42:A:SER:H	2	0.24
(1,1177)	1:21:A:ALA:H	1:22:A:LEU:H	11	0.24
(1,1177)	1:21:A:ALA:H	1:22:A:LEU:H	14	0.24
(1,1148)	1:27:A:PHE:HA	1:28:A:PRO:HD2	14	0.24
(1,900)	1:22:A:LEU:H	1:21:A:ALA:H	11	0.24
(1,900)	1:22:A:LEU:H	1:21:A:ALA:H	14	0.24
(1,831)	1:34:A:ARG:H	1:36:A:LEU:H	17	0.24
(1,747)	1:22:A:LEU:H	1:19:A:ASP:HA	17	0.24
(1,654)	1:48:A:GLY:H	1:47:A:SER:HB2	13	0.24
(1,654)	1:48:A:GLY:H	1:47:A:SER:HB2	19	0.24
(1,653)	1:48:A:GLY:H	1:47:A:SER:HB2	2	0.24
(1,653)	1:48:A:GLY:H	1:47:A:SER:HB2	4	0.24
(1,653)	1:48:A:GLY:H	1:47:A:SER:HB2	8	0.24
(1,653)	1:48:A:GLY:H	1:47:A:SER:HB2	9	0.24
(1,653)	1:48:A:GLY:H	1:47:A:SER:HB2	11	0.24
(1,653)	1:48:A:GLY:H	1:47:A:SER:HB2	16	0.24
(1,652)	1:48:A:GLY:H	1:47:A:SER:HA	2	0.24
(1,652)	1:48:A:GLY:H	1:47:A:SER:HA	4	0.24
(1,652)	1:48:A:GLY:H	1:47:A:SER:HA	5	0.24
(1,652)	1:48:A:GLY:H	1:47:A:SER:HA	7	0.24
(1,652)	1:48:A:GLY:H	1:47:A:SER:HA	8	0.24
(1,652)	1:48:A:GLY:H	1:47:A:SER:HA	9	0.24
(1,652)	1:48:A:GLY:H	1:47:A:SER:HA	10	0.24
(1,652)	1:48:A:GLY:H	1:47:A:SER:HA	11	0.24
(1,652)	1:48:A:GLY:H	1:47:A:SER:HA	12	0.24
(1,652)	1:48:A:GLY:H	1:47:A:SER:HA	13	0.24
(1,652)	1:48:A:GLY:H	1:47:A:SER:HA	14	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,652)	1:48:A:GLY:H	1:47:A:SER:HA	15	0.24
(1,652)	1:48:A:GLY:H	1:47:A:SER:HA	17	0.24
(1,652)	1:48:A:GLY:H	1:47:A:SER:HA	18	0.24
(1,640)	1:36:A:LEU:H	1:34:A:ARG:H	3	0.24
(1,640)	1:36:A:LEU:H	1:34:A:ARG:H	5	0.24
(1,640)	1:36:A:LEU:H	1:34:A:ARG:H	6	0.24
(1,640)	1:36:A:LEU:H	1:34:A:ARG:H	10	0.24
(1,640)	1:36:A:LEU:H	1:34:A:ARG:H	14	0.24
(1,640)	1:36:A:LEU:H	1:34:A:ARG:H	16	0.24
(1,640)	1:36:A:LEU:H	1:34:A:ARG:H	18	0.24
(1,640)	1:36:A:LEU:H	1:34:A:ARG:H	19	0.24
(1,592)	1:5:A:PHE:H	1:16:A:SER:HA	4	0.24
(1,489)	1:39:A:LYS:HB3	1:36:A:LEU:HA	6	0.24
(1,381)	1:28:A:PRO:HD2	1:37:A:TRP:HZ3	6	0.24
(1,381)	1:28:A:PRO:HD2	1:37:A:TRP:HZ3	12	0.24
(1,204)	1:22:A:LEU:HD21	1:62:A:CYS:HB3	11	0.24
(1,204)	1:22:A:LEU:HD22	1:62:A:CYS:HB3	11	0.24
(1,204)	1:22:A:LEU:HD23	1:62:A:CYS:HB3	11	0.24
(1,187)	1:62:A:CYS:HB3	1:22:A:LEU:HD21	11	0.24
(1,187)	1:62:A:CYS:HB3	1:22:A:LEU:HD22	11	0.24
(1,187)	1:62:A:CYS:HB3	1:22:A:LEU:HD23	11	0.24
(1,174)	1:33:A:LEU:HG	1:28:A:PRO:HG2	6	0.24
(1,174)	1:33:A:LEU:HG	1:28:A:PRO:HG2	11	0.24
(1,174)	1:33:A:LEU:HG	1:28:A:PRO:HG2	17	0.24
(1,174)	1:33:A:LEU:HG	1:28:A:PRO:HG2	19	0.24
(1,155)	1:47:A:SER:HA	1:48:A:GLY:H	2	0.24
(1,155)	1:47:A:SER:HA	1:48:A:GLY:H	4	0.24
(1,155)	1:47:A:SER:HA	1:48:A:GLY:H	5	0.24
(1,155)	1:47:A:SER:HA	1:48:A:GLY:H	7	0.24
(1,155)	1:47:A:SER:HA	1:48:A:GLY:H	8	0.24
(1,155)	1:47:A:SER:HA	1:48:A:GLY:H	9	0.24
(1,155)	1:47:A:SER:HA	1:48:A:GLY:H	10	0.24
(1,155)	1:47:A:SER:HA	1:48:A:GLY:H	11	0.24
(1,155)	1:47:A:SER:HA	1:48:A:GLY:H	12	0.24
(1,155)	1:47:A:SER:HA	1:48:A:GLY:H	13	0.24
(1,155)	1:47:A:SER:HA	1:48:A:GLY:H	14	0.24
(1,155)	1:47:A:SER:HA	1:48:A:GLY:H	15	0.24
(1,155)	1:47:A:SER:HA	1:48:A:GLY:H	17	0.24
(1,155)	1:47:A:SER:HA	1:48:A:GLY:H	18	0.24
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD11	17	0.23
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD12	17	0.23
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD13	17	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1488)	1:15:A:ASN:H	1:14:A:ASN:HA	10	0.23
(1,1378)	1:15:A:ASN:HA	1:16:A:SER:H	2	0.23
(1,1334)	1:36:A:LEU:H	1:34:A:ARG:H	1	0.23
(1,1334)	1:36:A:LEU:H	1:34:A:ARG:H	2	0.23
(1,1334)	1:36:A:LEU:H	1:34:A:ARG:H	8	0.23
(1,1334)	1:36:A:LEU:H	1:34:A:ARG:H	12	0.23
(1,1334)	1:36:A:LEU:H	1:34:A:ARG:H	15	0.23
(1,1325)	1:19:A:ASP:H	1:18:A:ARG:HB2	8	0.23
(1,1321)	1:16:A:SER:H	1:15:A:ASN:HA	2	0.23
(1,1320)	1:16:A:SER:H	1:5:A:PHE:H	8	0.23
(1,1270)	1:19:A:ASP:HB3	1:22:A:LEU:HD21	19	0.23
(1,1270)	1:19:A:ASP:HB3	1:22:A:LEU:HD22	19	0.23
(1,1270)	1:19:A:ASP:HB3	1:22:A:LEU:HD23	19	0.23
(1,1265)	1:5:A:PHE:H	1:16:A:SER:H	8	0.23
(1,1148)	1:27:A:PHE:HA	1:28:A:PRO:HD2	12	0.23
(1,1148)	1:27:A:PHE:HA	1:28:A:PRO:HD2	16	0.23
(1,1128)	1:61:A:LEU:HD11	1:37:A:TRP:HH2	7	0.23
(1,1128)	1:61:A:LEU:HD12	1:37:A:TRP:HH2	7	0.23
(1,1128)	1:61:A:LEU:HD13	1:37:A:TRP:HH2	7	0.23
(1,1123)	1:61:A:LEU:HD11	1:37:A:TRP:HZ3	16	0.23
(1,1123)	1:61:A:LEU:HD12	1:37:A:TRP:HZ3	16	0.23
(1,1123)	1:61:A:LEU:HD13	1:37:A:TRP:HZ3	16	0.23
(1,968)	1:16:A:SER:HB2	1:42:A:SER:HB3	6	0.23
(1,968)	1:16:A:SER:HB2	1:42:A:SER:HB3	9	0.23
(1,968)	1:16:A:SER:HB2	1:42:A:SER:HB3	13	0.23
(1,968)	1:16:A:SER:HB2	1:42:A:SER:HB3	18	0.23
(1,870)	1:42:A:SER:HB3	1:16:A:SER:HB2	6	0.23
(1,870)	1:42:A:SER:HB3	1:16:A:SER:HB2	9	0.23
(1,870)	1:42:A:SER:HB3	1:16:A:SER:HB2	13	0.23
(1,870)	1:42:A:SER:HB3	1:16:A:SER:HB2	18	0.23
(1,780)	1:66:A:PHE:H	1:65:A:HIS:HB3	4	0.23
(1,747)	1:22:A:LEU:H	1:19:A:ASP:HA	15	0.23
(1,747)	1:22:A:LEU:H	1:19:A:ASP:HA	16	0.23
(1,685)	1:80:A:ILE:H	1:65:A:HIS:HB3	2	0.23
(1,685)	1:80:A:ILE:H	1:65:A:HIS:HB3	4	0.23
(1,685)	1:80:A:ILE:H	1:65:A:HIS:HB3	16	0.23
(1,654)	1:48:A:GLY:H	1:47:A:SER:HB2	3	0.23
(1,652)	1:48:A:GLY:H	1:47:A:SER:HA	16	0.23
(1,640)	1:36:A:LEU:H	1:34:A:ARG:H	1	0.23
(1,640)	1:36:A:LEU:H	1:34:A:ARG:H	2	0.23
(1,640)	1:36:A:LEU:H	1:34:A:ARG:H	8	0.23
(1,640)	1:36:A:LEU:H	1:34:A:ARG:H	12	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,640)	1:36:A:LEU:H	1:34:A:ARG:H	15	0.23
(1,618)	1:16:A:SER:H	1:15:A:ASN:HA	2	0.23
(1,592)	1:5:A:PHE:H	1:16:A:SER:HA	2	0.23
(1,591)	1:5:A:PHE:H	1:16:A:SER:H	8	0.23
(1,417)	1:15:A:ASN:HA	1:16:A:SER:H	2	0.23
(1,381)	1:28:A:PRO:HD2	1:37:A:TRP:HZ3	1	0.23
(1,381)	1:28:A:PRO:HD2	1:37:A:TRP:HZ3	9	0.23
(1,381)	1:28:A:PRO:HD2	1:37:A:TRP:HZ3	11	0.23
(1,333)	1:16:A:SER:HB3	1:5:A:PHE:H	9	0.23
(1,297)	1:39:A:LYS:HG2	1:36:A:LEU:HA	6	0.23
(1,297)	1:39:A:LYS:HG2	1:36:A:LEU:HA	9	0.23
(1,234)	1:61:A:LEU:HD11	1:65:A:HIS:HD2	17	0.23
(1,234)	1:61:A:LEU:HD12	1:65:A:HIS:HD2	17	0.23
(1,234)	1:61:A:LEU:HD13	1:65:A:HIS:HD2	17	0.23
(1,174)	1:33:A:LEU:HG	1:28:A:PRO:HG2	4	0.23
(1,174)	1:33:A:LEU:HG	1:28:A:PRO:HG2	9	0.23
(1,155)	1:47:A:SER:HA	1:48:A:GLY:H	16	0.23
(1,113)	1:61:A:LEU:HD21	1:81:A:PHE:HD1	1	0.23
(1,113)	1:61:A:LEU:HD21	1:81:A:PHE:HD2	1	0.23
(1,113)	1:61:A:LEU:HD22	1:81:A:PHE:HD1	1	0.23
(1,113)	1:61:A:LEU:HD22	1:81:A:PHE:HD2	1	0.23
(1,113)	1:61:A:LEU:HD23	1:81:A:PHE:HD1	1	0.23
(1,113)	1:61:A:LEU:HD23	1:81:A:PHE:HD2	1	0.23
(1,1606)	1:14:A:ASN:HB2	1:24:A:PHE:HZ	4	0.22
(1,1606)	1:14:A:ASN:HB2	1:24:A:PHE:HZ	11	0.22
(1,1604)	1:24:A:PHE:HZ	1:14:A:ASN:HB2	4	0.22
(1,1604)	1:24:A:PHE:HZ	1:14:A:ASN:HB2	11	0.22
(1,1550)	1:27:A:PHE:HE1	1:38:A:LEU:HA	10	0.22
(1,1550)	1:27:A:PHE:HE2	1:38:A:LEU:HA	10	0.22
(1,1550)	1:27:A:PHE:HE1	1:38:A:LEU:HA	17	0.22
(1,1550)	1:27:A:PHE:HE2	1:38:A:LEU:HA	17	0.22
(1,1502)	1:41:A:VAL:H	1:38:A:LEU:HA	5	0.22
(1,1459)	1:26:A:THR:H	1:25:A:TYR:HA	13	0.22
(1,1298)	1:27:A:PHE:HE1	1:37:A:TRP:HE3	3	0.22
(1,1298)	1:27:A:PHE:HE2	1:37:A:TRP:HE3	3	0.22
(1,1270)	1:19:A:ASP:HB3	1:22:A:LEU:HD21	16	0.22
(1,1270)	1:19:A:ASP:HB3	1:22:A:LEU:HD22	16	0.22
(1,1270)	1:19:A:ASP:HB3	1:22:A:LEU:HD23	16	0.22
(1,1179)	1:23:A:HIS:H	1:22:A:LEU:HB3	16	0.22
(1,1177)	1:21:A:ALA:H	1:22:A:LEU:H	2	0.22
(1,1148)	1:27:A:PHE:HA	1:28:A:PRO:HD2	3	0.22
(1,1123)	1:61:A:LEU:HD11	1:37:A:TRP:HZ3	14	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1123)	1:61:A:LEU:HD12	1:37:A:TRP:HZ3	14	0.22
(1,1123)	1:61:A:LEU:HD13	1:37:A:TRP:HZ3	14	0.22
(1,998)	1:22:A:LEU:HB3	1:23:A:HIS:H	16	0.22
(1,968)	1:16:A:SER:HB2	1:42:A:SER:HB3	10	0.22
(1,968)	1:16:A:SER:HB2	1:42:A:SER:HB3	11	0.22
(1,968)	1:16:A:SER:HB2	1:42:A:SER:HB3	12	0.22
(1,968)	1:16:A:SER:HB2	1:42:A:SER:HB3	15	0.22
(1,900)	1:22:A:LEU:H	1:21:A:ALA:H	2	0.22
(1,870)	1:42:A:SER:HB3	1:16:A:SER:HB2	10	0.22
(1,870)	1:42:A:SER:HB3	1:16:A:SER:HB2	11	0.22
(1,870)	1:42:A:SER:HB3	1:16:A:SER:HB2	12	0.22
(1,870)	1:42:A:SER:HB3	1:16:A:SER:HB2	15	0.22
(1,780)	1:66:A:PHE:H	1:65:A:HIS:HB3	1	0.22
(1,747)	1:22:A:LEU:H	1:19:A:ASP:HA	10	0.22
(1,708)	1:41:A:VAL:H	1:38:A:LEU:HA	5	0.22
(1,653)	1:48:A:GLY:H	1:47:A:SER:HB2	12	0.22
(1,489)	1:39:A:LYS:HB3	1:36:A:LEU:HA	8	0.22
(1,458)	1:22:A:LEU:HB3	1:23:A:HIS:H	16	0.22
(1,381)	1:28:A:PRO:HD2	1:37:A:TRP:HZ3	14	0.22
(1,381)	1:28:A:PRO:HD2	1:37:A:TRP:HZ3	15	0.22
(1,297)	1:39:A:LYS:HG2	1:36:A:LEU:HA	5	0.22
(1,297)	1:39:A:LYS:HG2	1:36:A:LEU:HA	10	0.22
(1,297)	1:39:A:LYS:HG2	1:36:A:LEU:HA	18	0.22
(1,294)	1:38:A:LEU:HB2	1:39:A:LYS:H	12	0.22
(1,294)	1:38:A:LEU:HB2	1:39:A:LYS:H	13	0.22
(1,294)	1:38:A:LEU:HB2	1:39:A:LYS:H	15	0.22
(1,294)	1:38:A:LEU:HB2	1:39:A:LYS:H	17	0.22
(1,174)	1:33:A:LEU:HG	1:28:A:PRO:HG2	1	0.22
(1,174)	1:33:A:LEU:HG	1:28:A:PRO:HG2	12	0.22
(1,174)	1:33:A:LEU:HG	1:28:A:PRO:HG2	13	0.22
(1,162)	1:31:A:ALA:HB1	1:32:A:GLU:H	2	0.22
(1,162)	1:31:A:ALA:HB2	1:32:A:GLU:H	2	0.22
(1,162)	1:31:A:ALA:HB3	1:32:A:GLU:H	2	0.22
(1,53)	1:32:A:GLU:HA	1:34:A:ARG:H	3	0.22
(1,36)	1:46:A:VAL:HG11	1:47:A:SER:HB3	4	0.22
(1,36)	1:46:A:VAL:HG12	1:47:A:SER:HB3	4	0.22
(1,36)	1:46:A:VAL:HG13	1:47:A:SER:HB3	4	0.22
(1,1606)	1:14:A:ASN:HB2	1:24:A:PHE:HZ	14	0.21
(1,1604)	1:24:A:PHE:HZ	1:14:A:ASN:HB2	14	0.21
(1,1524)	1:16:A:SER:HA	1:24:A:PHE:HD1	1	0.21
(1,1524)	1:16:A:SER:HA	1:24:A:PHE:HD2	1	0.21
(1,1524)	1:16:A:SER:HA	1:24:A:PHE:HD1	4	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1524)	1:16:A:SER:HA	1:24:A:PHE:HD2	4	0.21
(1,1502)	1:41:A:VAL:H	1:38:A:LEU:HA	1	0.21
(1,1502)	1:41:A:VAL:H	1:38:A:LEU:HA	2	0.21
(1,1491)	1:15:A:ASN:H	1:24:A:PHE:HZ	2	0.21
(1,1488)	1:15:A:ASN:H	1:14:A:ASN:HA	9	0.21
(1,1488)	1:15:A:ASN:H	1:14:A:ASN:HA	12	0.21
(1,1459)	1:26:A:THR:H	1:25:A:TYR:HA	3	0.21
(1,1459)	1:26:A:THR:H	1:25:A:TYR:HA	5	0.21
(1,1459)	1:26:A:THR:H	1:25:A:TYR:HA	11	0.21
(1,1334)	1:36:A:LEU:H	1:34:A:ARG:H	9	0.21
(1,1266)	1:43:A:ARG:H	1:42:A:SER:H	17	0.21
(1,1177)	1:21:A:ALA:H	1:22:A:LEU:H	6	0.21
(1,1177)	1:21:A:ALA:H	1:22:A:LEU:H	12	0.21
(1,1148)	1:27:A:PHE:HA	1:28:A:PRO:HD2	13	0.21
(1,1120)	1:24:A:PHE:HZ	1:15:A:ASN:H	2	0.21
(1,968)	1:16:A:SER:HB2	1:42:A:SER:HB3	14	0.21
(1,968)	1:16:A:SER:HB2	1:42:A:SER:HB3	17	0.21
(1,900)	1:22:A:LEU:H	1:21:A:ALA:H	6	0.21
(1,900)	1:22:A:LEU:H	1:21:A:ALA:H	12	0.21
(1,870)	1:42:A:SER:HB3	1:16:A:SER:HB2	14	0.21
(1,870)	1:42:A:SER:HB3	1:16:A:SER:HB2	17	0.21
(1,747)	1:22:A:LEU:H	1:19:A:ASP:HA	9	0.21
(1,708)	1:41:A:VAL:H	1:38:A:LEU:HA	1	0.21
(1,708)	1:41:A:VAL:H	1:38:A:LEU:HA	2	0.21
(1,640)	1:36:A:LEU:H	1:34:A:ARG:H	9	0.21
(1,614)	1:16:A:SER:H	1:24:A:PHE:HZ	7	0.21
(1,596)	1:43:A:ARG:H	1:42:A:SER:HA	5	0.21
(1,524)	1:78:A:PRO:HD3	1:77:A:VAL:HB	17	0.21
(1,489)	1:39:A:LYS:HB3	1:36:A:LEU:HA	10	0.21
(1,423)	1:28:A:PRO:HD3	1:27:A:PHE:HB2	3	0.21
(1,381)	1:28:A:PRO:HD2	1:37:A:TRP:HZ3	10	0.21
(1,381)	1:28:A:PRO:HD2	1:37:A:TRP:HZ3	16	0.21
(1,381)	1:28:A:PRO:HD2	1:37:A:TRP:HZ3	17	0.21
(1,297)	1:39:A:LYS:HG2	1:36:A:LEU:HA	1	0.21
(1,297)	1:39:A:LYS:HG2	1:36:A:LEU:HA	4	0.21
(1,297)	1:39:A:LYS:HG2	1:36:A:LEU:HA	11	0.21
(1,294)	1:38:A:LEU:HB2	1:39:A:LYS:H	6	0.21
(1,294)	1:38:A:LEU:HB2	1:39:A:LYS:H	10	0.21
(1,294)	1:38:A:LEU:HB2	1:39:A:LYS:H	19	0.21
(1,198)	1:16:A:SER:HA	1:24:A:PHE:HD1	1	0.21
(1,198)	1:16:A:SER:HA	1:24:A:PHE:HD2	1	0.21
(1,198)	1:16:A:SER:HA	1:24:A:PHE:HD1	4	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,198)	1:16:A:SER:HA	1:24:A:PHE:HD2	4	0.21
(1,174)	1:33:A:LEU:HG	1:28:A:PRO:HG2	15	0.21
(1,174)	1:33:A:LEU:HG	1:28:A:PRO:HG2	18	0.21
(1,167)	1:45:A:GLY:HA3	1:46:A:VAL:H	10	0.21
(1,162)	1:31:A:ALA:HB1	1:32:A:GLU:H	3	0.21
(1,162)	1:31:A:ALA:HB2	1:32:A:GLU:H	3	0.21
(1,162)	1:31:A:ALA:HB3	1:32:A:GLU:H	3	0.21
(1,162)	1:31:A:ALA:HB1	1:32:A:GLU:H	4	0.21
(1,162)	1:31:A:ALA:HB2	1:32:A:GLU:H	4	0.21
(1,162)	1:31:A:ALA:HB3	1:32:A:GLU:H	4	0.21
(1,162)	1:31:A:ALA:HB1	1:32:A:GLU:H	5	0.21
(1,162)	1:31:A:ALA:HB2	1:32:A:GLU:H	5	0.21
(1,162)	1:31:A:ALA:HB3	1:32:A:GLU:H	5	0.21
(1,162)	1:31:A:ALA:HB1	1:32:A:GLU:H	6	0.21
(1,162)	1:31:A:ALA:HB2	1:32:A:GLU:H	6	0.21
(1,162)	1:31:A:ALA:HB3	1:32:A:GLU:H	6	0.21
(1,162)	1:31:A:ALA:HB1	1:32:A:GLU:H	10	0.21
(1,162)	1:31:A:ALA:HB2	1:32:A:GLU:H	10	0.21
(1,162)	1:31:A:ALA:HB3	1:32:A:GLU:H	10	0.21
(1,162)	1:31:A:ALA:HB1	1:32:A:GLU:H	12	0.21
(1,162)	1:31:A:ALA:HB2	1:32:A:GLU:H	12	0.21
(1,162)	1:31:A:ALA:HB3	1:32:A:GLU:H	12	0.21
(1,162)	1:31:A:ALA:HB1	1:32:A:GLU:H	14	0.21
(1,162)	1:31:A:ALA:HB2	1:32:A:GLU:H	14	0.21
(1,162)	1:31:A:ALA:HB3	1:32:A:GLU:H	14	0.21
(1,162)	1:31:A:ALA:HB1	1:32:A:GLU:H	16	0.21
(1,162)	1:31:A:ALA:HB2	1:32:A:GLU:H	16	0.21
(1,162)	1:31:A:ALA:HB3	1:32:A:GLU:H	16	0.21
(1,53)	1:32:A:GLU:HA	1:34:A:ARG:H	4	0.21
(1,53)	1:32:A:GLU:HA	1:34:A:ARG:H	5	0.21
(1,29)	1:41:A:VAL:HG11	1:38:A:LEU:HA	7	0.21
(1,29)	1:41:A:VAL:HG12	1:38:A:LEU:HA	7	0.21
(1,29)	1:41:A:VAL:HG13	1:38:A:LEU:HA	7	0.21
(1,1695)	1:14:A:ASN:HB2	1:62:A:CYS:HB3	6	0.2
(1,1694)	1:62:A:CYS:HB3	1:14:A:ASN:HB2	6	0.2
(1,1589)	1:65:A:HIS:HE1	1:81:A:PHE:HD1	3	0.2
(1,1589)	1:65:A:HIS:HE1	1:81:A:PHE:HD2	3	0.2
(1,1502)	1:41:A:VAL:H	1:38:A:LEU:HA	3	0.2
(1,1488)	1:15:A:ASN:H	1:14:A:ASN:HA	3	0.2
(1,1488)	1:15:A:ASN:H	1:14:A:ASN:HA	13	0.2
(1,1488)	1:15:A:ASN:H	1:14:A:ASN:HA	15	0.2
(1,1488)	1:15:A:ASN:H	1:14:A:ASN:HA	18	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1488)	1:15:A:ASN:H	1:14:A:ASN:HA	19	0.2
(1,1459)	1:26:A:THR:H	1:25:A:TYR:HA	6	0.2
(1,1459)	1:26:A:THR:H	1:25:A:TYR:HA	8	0.2
(1,1459)	1:26:A:THR:H	1:25:A:TYR:HA	9	0.2
(1,1459)	1:26:A:THR:H	1:25:A:TYR:HA	10	0.2
(1,1459)	1:26:A:THR:H	1:25:A:TYR:HA	17	0.2
(1,1320)	1:16:A:SER:H	1:5:A:PHE:H	4	0.2
(1,1298)	1:27:A:PHE:HE1	1:37:A:TRP:HE3	17	0.2
(1,1298)	1:27:A:PHE:HE2	1:37:A:TRP:HE3	17	0.2
(1,1266)	1:43:A:ARG:H	1:42:A:SER:H	4	0.2
(1,1266)	1:43:A:ARG:H	1:42:A:SER:H	9	0.2
(1,1265)	1:5:A:PHE:H	1:16:A:SER:H	4	0.2
(1,1221)	1:63:A:SER:H	1:64:A:VAL:H	3	0.2
(1,1179)	1:23:A:HIS:H	1:22:A:LEU:HB3	17	0.2
(1,1092)	1:41:A:VAL:HG11	1:81:A:PHE:HE1	14	0.2
(1,1092)	1:41:A:VAL:HG11	1:81:A:PHE:HE2	14	0.2
(1,1092)	1:41:A:VAL:HG12	1:81:A:PHE:HE1	14	0.2
(1,1092)	1:41:A:VAL:HG12	1:81:A:PHE:HE2	14	0.2
(1,1092)	1:41:A:VAL:HG13	1:81:A:PHE:HE1	14	0.2
(1,1092)	1:41:A:VAL:HG13	1:81:A:PHE:HE2	14	0.2
(1,1017)	1:59:A:HIS:HB3	1:27:A:PHE:HE1	10	0.2
(1,1017)	1:59:A:HIS:HB3	1:27:A:PHE:HE2	10	0.2
(1,998)	1:22:A:LEU:HB3	1:23:A:HIS:H	17	0.2
(1,997)	1:38:A:LEU:HG	1:27:A:PHE:HD1	2	0.2
(1,997)	1:38:A:LEU:HG	1:27:A:PHE:HD2	2	0.2
(1,995)	1:20:A:LYS:H	1:19:A:ASP:H	18	0.2
(1,989)	1:64:A:VAL:H	1:63:A:SER:H	3	0.2
(1,968)	1:16:A:SER:HB2	1:42:A:SER:HB3	3	0.2
(1,968)	1:16:A:SER:HB2	1:42:A:SER:HB3	7	0.2
(1,870)	1:42:A:SER:HB3	1:16:A:SER:HB2	3	0.2
(1,870)	1:42:A:SER:HB3	1:16:A:SER:HB2	7	0.2
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB1	15	0.2
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB2	15	0.2
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB3	15	0.2
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB1	17	0.2
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB2	17	0.2
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB3	17	0.2
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB1	18	0.2
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB2	18	0.2
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB3	18	0.2
(1,777)	1:64:A:VAL:H	1:63:A:SER:H	3	0.2
(1,747)	1:22:A:LEU:H	1:19:A:ASP:HA	13	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,747)	1:22:A:LEU:H	1:19:A:ASP:HA	18	0.2
(1,708)	1:41:A:VAL:H	1:38:A:LEU:HA	3	0.2
(1,690)	1:80:A:ILE:H	1:79:A:THR:HB	12	0.2
(1,623)	1:19:A:ASP:H	1:20:A:LYS:H	18	0.2
(1,591)	1:5:A:PHE:H	1:16:A:SER:H	4	0.2
(1,571)	1:63:A:SER:H	1:64:A:VAL:H	3	0.2
(1,489)	1:39:A:LYS:HB3	1:36:A:LEU:HA	7	0.2
(1,489)	1:39:A:LYS:HB3	1:36:A:LEU:HA	11	0.2
(1,458)	1:22:A:LEU:HB3	1:23:A:HIS:H	17	0.2
(1,381)	1:28:A:PRO:HD2	1:37:A:TRP:HZ3	19	0.2
(1,297)	1:39:A:LYS:HG2	1:36:A:LEU:HA	2	0.2
(1,297)	1:39:A:LYS:HG2	1:36:A:LEU:HA	3	0.2
(1,297)	1:39:A:LYS:HG2	1:36:A:LEU:HA	8	0.2
(1,297)	1:39:A:LYS:HG2	1:36:A:LEU:HA	14	0.2
(1,297)	1:39:A:LYS:HG2	1:36:A:LEU:HA	16	0.2
(1,294)	1:38:A:LEU:HB2	1:39:A:LYS:H	14	0.2
(1,244)	1:22:A:LEU:HD11	1:14:A:ASN:HD22	1	0.2
(1,244)	1:22:A:LEU:HD12	1:14:A:ASN:HD22	1	0.2
(1,244)	1:22:A:LEU:HD13	1:14:A:ASN:HD22	1	0.2
(1,174)	1:33:A:LEU:HG	1:28:A:PRO:HG2	8	0.2
(1,174)	1:33:A:LEU:HG	1:28:A:PRO:HG2	10	0.2
(1,162)	1:31:A:ALA:HB1	1:32:A:GLU:H	1	0.2
(1,162)	1:31:A:ALA:HB2	1:32:A:GLU:H	1	0.2
(1,162)	1:31:A:ALA:HB3	1:32:A:GLU:H	1	0.2
(1,162)	1:31:A:ALA:HB1	1:32:A:GLU:H	7	0.2
(1,162)	1:31:A:ALA:HB2	1:32:A:GLU:H	7	0.2
(1,162)	1:31:A:ALA:HB3	1:32:A:GLU:H	7	0.2
(1,162)	1:31:A:ALA:HB1	1:32:A:GLU:H	8	0.2
(1,162)	1:31:A:ALA:HB2	1:32:A:GLU:H	8	0.2
(1,162)	1:31:A:ALA:HB3	1:32:A:GLU:H	8	0.2
(1,162)	1:31:A:ALA:HB1	1:32:A:GLU:H	11	0.2
(1,162)	1:31:A:ALA:HB2	1:32:A:GLU:H	11	0.2
(1,162)	1:31:A:ALA:HB3	1:32:A:GLU:H	11	0.2
(1,162)	1:31:A:ALA:HB1	1:32:A:GLU:H	15	0.2
(1,162)	1:31:A:ALA:HB2	1:32:A:GLU:H	15	0.2
(1,162)	1:31:A:ALA:HB3	1:32:A:GLU:H	15	0.2
(1,162)	1:31:A:ALA:HB1	1:32:A:GLU:H	17	0.2
(1,162)	1:31:A:ALA:HB2	1:32:A:GLU:H	17	0.2
(1,162)	1:31:A:ALA:HB3	1:32:A:GLU:H	17	0.2
(1,162)	1:31:A:ALA:HB1	1:32:A:GLU:H	18	0.2
(1,162)	1:31:A:ALA:HB2	1:32:A:GLU:H	18	0.2
(1,162)	1:31:A:ALA:HB3	1:32:A:GLU:H	18	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,162)	1:31:A:ALA:HB1	1:32:A:GLU:H	19	0.2
(1,162)	1:31:A:ALA:HB2	1:32:A:GLU:H	19	0.2
(1,162)	1:31:A:ALA:HB3	1:32:A:GLU:H	19	0.2
(1,53)	1:32:A:GLU:HA	1:34:A:ARG:H	1	0.2
(1,53)	1:32:A:GLU:HA	1:34:A:ARG:H	2	0.2
(1,53)	1:32:A:GLU:HA	1:34:A:ARG:H	6	0.2
(1,53)	1:32:A:GLU:HA	1:34:A:ARG:H	7	0.2
(1,53)	1:32:A:GLU:HA	1:34:A:ARG:H	8	0.2
(1,53)	1:32:A:GLU:HA	1:34:A:ARG:H	10	0.2
(1,53)	1:32:A:GLU:HA	1:34:A:ARG:H	11	0.2
(1,53)	1:32:A:GLU:HA	1:34:A:ARG:H	12	0.2
(1,34)	1:41:A:VAL:HG11	1:81:A:PHE:HE1	14	0.2
(1,34)	1:41:A:VAL:HG11	1:81:A:PHE:HE2	14	0.2
(1,34)	1:41:A:VAL:HG12	1:81:A:PHE:HE1	14	0.2
(1,34)	1:41:A:VAL:HG12	1:81:A:PHE:HE2	14	0.2
(1,34)	1:41:A:VAL:HG13	1:81:A:PHE:HE1	14	0.2
(1,34)	1:41:A:VAL:HG13	1:81:A:PHE:HE2	14	0.2
(1,1765)	1:65:A:HIS:HD2	1:61:A:LEU:HG	2	0.19
(1,1764)	1:61:A:LEU:HG	1:65:A:HIS:HD2	2	0.19
(1,1550)	1:27:A:PHE:HE1	1:38:A:LEU:HA	15	0.19
(1,1550)	1:27:A:PHE:HE2	1:38:A:LEU:HA	15	0.19
(1,1518)	1:58:A:GLY:HA2	1:59:A:HIS:H	11	0.19
(1,1518)	1:58:A:GLY:HA2	1:59:A:HIS:H	14	0.19
(1,1518)	1:58:A:GLY:HA2	1:59:A:HIS:H	19	0.19
(1,1491)	1:15:A:ASN:H	1:24:A:PHE:HZ	4	0.19
(1,1488)	1:15:A:ASN:H	1:14:A:ASN:HA	16	0.19
(1,1459)	1:26:A:THR:H	1:25:A:TYR:HA	1	0.19
(1,1459)	1:26:A:THR:H	1:25:A:TYR:HA	12	0.19
(1,1459)	1:26:A:THR:H	1:25:A:TYR:HA	14	0.19
(1,1459)	1:26:A:THR:H	1:25:A:TYR:HA	15	0.19
(1,1459)	1:26:A:THR:H	1:25:A:TYR:HA	16	0.19
(1,1459)	1:26:A:THR:H	1:25:A:TYR:HA	18	0.19
(1,1459)	1:26:A:THR:H	1:25:A:TYR:HA	19	0.19
(1,1334)	1:36:A:LEU:H	1:34:A:ARG:H	13	0.19
(1,1298)	1:27:A:PHE:HE1	1:37:A:TRP:HE3	15	0.19
(1,1298)	1:27:A:PHE:HE2	1:37:A:TRP:HE3	15	0.19
(1,1266)	1:43:A:ARG:H	1:42:A:SER:H	18	0.19
(1,1221)	1:63:A:SER:H	1:64:A:VAL:H	10	0.19
(1,1209)	1:78:A:PRO:HD3	1:37:A:TRP:HD1	7	0.19
(1,1177)	1:21:A:ALA:H	1:22:A:LEU:H	18	0.19
(1,1148)	1:27:A:PHE:HA	1:28:A:PRO:HD2	5	0.19
(1,1148)	1:27:A:PHE:HA	1:28:A:PRO:HD2	7	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1148)	1:27:A:PHE:HA	1:28:A:PRO:HD2	9	0.19
(1,1120)	1:24:A:PHE:HZ	1:15:A:ASN:H	4	0.19
(1,1084)	1:37:A:TRP:HE1	1:78:A:PRO:HD2	16	0.19
(1,989)	1:64:A:VAL:H	1:63:A:SER:H	10	0.19
(1,900)	1:22:A:LEU:H	1:21:A:ALA:H	18	0.19
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB1	1	0.19
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB2	1	0.19
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB3	1	0.19
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB1	2	0.19
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB2	2	0.19
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB3	2	0.19
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB1	3	0.19
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB2	3	0.19
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB3	3	0.19
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB1	5	0.19
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB2	5	0.19
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB3	5	0.19
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB1	6	0.19
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB2	6	0.19
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB3	6	0.19
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB1	7	0.19
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB2	7	0.19
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB3	7	0.19
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB1	10	0.19
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB2	10	0.19
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB3	10	0.19
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB1	12	0.19
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB2	12	0.19
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB3	12	0.19
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB1	13	0.19
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB2	13	0.19
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB3	13	0.19
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB1	14	0.19
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB2	14	0.19
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB3	14	0.19
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB1	16	0.19
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB2	16	0.19
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB3	16	0.19
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB1	19	0.19
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB2	19	0.19
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB3	19	0.19
(1,808)	1:59:A:HIS:H	1:58:A:GLY:HA2	11	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,808)	1:59:A:HIS:H	1:58:A:GLY:HA2	14	0.19
(1,808)	1:59:A:HIS:H	1:58:A:GLY:HA2	19	0.19
(1,777)	1:64:A:VAL:H	1:63:A:SER:H	10	0.19
(1,699)	1:44:A:ALA:H	1:43:A:ARG:HB3	14	0.19
(1,640)	1:36:A:LEU:H	1:34:A:ARG:H	13	0.19
(1,598)	1:43:A:ARG:H	1:42:A:SER:HB2	19	0.19
(1,586)	1:33:A:LEU:H	1:32:A:GLU:HA	3	0.19
(1,586)	1:33:A:LEU:H	1:32:A:GLU:HA	11	0.19
(1,571)	1:63:A:SER:H	1:64:A:VAL:H	10	0.19
(1,524)	1:78:A:PRO:HD3	1:77:A:VAL:HB	11	0.19
(1,524)	1:78:A:PRO:HD3	1:77:A:VAL:HB	13	0.19
(1,489)	1:39:A:LYS:HB3	1:36:A:LEU:HA	18	0.19
(1,477)	1:14:A:ASN:HB3	1:22:A:LEU:HD21	15	0.19
(1,477)	1:14:A:ASN:HB3	1:22:A:LEU:HD22	15	0.19
(1,477)	1:14:A:ASN:HB3	1:22:A:LEU:HD23	15	0.19
(1,418)	1:28:A:PRO:HD3	1:37:A:TRP:HZ3	13	0.19
(1,381)	1:28:A:PRO:HD2	1:37:A:TRP:HZ3	4	0.19
(1,297)	1:39:A:LYS:HG2	1:36:A:LEU:HA	7	0.19
(1,297)	1:39:A:LYS:HG2	1:36:A:LEU:HA	12	0.19
(1,297)	1:39:A:LYS:HG2	1:36:A:LEU:HA	13	0.19
(1,297)	1:39:A:LYS:HG2	1:36:A:LEU:HA	15	0.19
(1,297)	1:39:A:LYS:HG2	1:36:A:LEU:HA	17	0.19
(1,295)	1:38:A:LEU:HB2	1:35:A:ARG:HA	4	0.19
(1,294)	1:38:A:LEU:HB2	1:39:A:LYS:H	9	0.19
(1,293)	1:45:A:GLY:HA2	1:46:A:VAL:H	9	0.19
(1,224)	1:28:A:PRO:HA	1:29:A:LYS:H	13	0.19
(1,174)	1:33:A:LEU:HG	1:28:A:PRO:HG2	16	0.19
(1,53)	1:32:A:GLU:HA	1:34:A:ARG:H	17	0.19
(1,53)	1:32:A:GLU:HA	1:34:A:ARG:H	18	0.19
(1,29)	1:41:A:VAL:HG11	1:38:A:LEU:HA	17	0.19
(1,29)	1:41:A:VAL:HG12	1:38:A:LEU:HA	17	0.19
(1,29)	1:41:A:VAL:HG13	1:38:A:LEU:HA	17	0.19
(1,1606)	1:14:A:ASN:HB2	1:24:A:PHE:HZ	12	0.18
(1,1604)	1:24:A:PHE:HZ	1:14:A:ASN:HB2	12	0.18
(1,1550)	1:27:A:PHE:HE1	1:38:A:LEU:HA	6	0.18
(1,1550)	1:27:A:PHE:HE2	1:38:A:LEU:HA	6	0.18
(1,1518)	1:58:A:GLY:HA2	1:59:A:HIS:H	18	0.18
(1,1506)	1:41:A:VAL:H	1:40:A:ASN:H	5	0.18
(1,1502)	1:41:A:VAL:H	1:38:A:LEU:HA	4	0.18
(1,1502)	1:41:A:VAL:H	1:38:A:LEU:HA	10	0.18
(1,1502)	1:41:A:VAL:H	1:38:A:LEU:HA	11	0.18
(1,1502)	1:41:A:VAL:H	1:38:A:LEU:HA	14	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1502)	1:41:A:VAL:H	1:38:A:LEU:HA	15	0.18
(1,1502)	1:41:A:VAL:H	1:38:A:LEU:HA	16	0.18
(1,1491)	1:15:A:ASN:H	1:24:A:PHE:HZ	8	0.18
(1,1488)	1:15:A:ASN:H	1:14:A:ASN:HA	5	0.18
(1,1488)	1:15:A:ASN:H	1:14:A:ASN:HA	7	0.18
(1,1465)	1:27:A:PHE:HD1	1:61:A:LEU:HD21	9	0.18
(1,1465)	1:27:A:PHE:HD1	1:61:A:LEU:HD22	9	0.18
(1,1465)	1:27:A:PHE:HD1	1:61:A:LEU:HD23	9	0.18
(1,1465)	1:27:A:PHE:HD2	1:61:A:LEU:HD21	9	0.18
(1,1465)	1:27:A:PHE:HD2	1:61:A:LEU:HD22	9	0.18
(1,1465)	1:27:A:PHE:HD2	1:61:A:LEU:HD23	9	0.18
(1,1459)	1:26:A:THR:H	1:25:A:TYR:HA	4	0.18
(1,1459)	1:26:A:THR:H	1:25:A:TYR:HA	7	0.18
(1,1413)	1:40:A:ASN:H	1:41:A:VAL:H	5	0.18
(1,1298)	1:27:A:PHE:HE1	1:37:A:TRP:HE3	14	0.18
(1,1298)	1:27:A:PHE:HE2	1:37:A:TRP:HE3	14	0.18
(1,1298)	1:27:A:PHE:HE1	1:37:A:TRP:HE3	19	0.18
(1,1298)	1:27:A:PHE:HE2	1:37:A:TRP:HE3	19	0.18
(1,1266)	1:43:A:ARG:H	1:42:A:SER:H	1	0.18
(1,1266)	1:43:A:ARG:H	1:42:A:SER:H	15	0.18
(1,1216)	1:35:A:ARG:HA	1:38:A:LEU:HB3	15	0.18
(1,1216)	1:35:A:ARG:HA	1:38:A:LEU:HB3	17	0.18
(1,1148)	1:27:A:PHE:HA	1:28:A:PRO:HD2	2	0.18
(1,1120)	1:24:A:PHE:HZ	1:15:A:ASN:H	8	0.18
(1,1017)	1:59:A:HIS:HB3	1:27:A:PHE:HE1	2	0.18
(1,1017)	1:59:A:HIS:HB3	1:27:A:PHE:HE2	2	0.18
(1,968)	1:16:A:SER:HB2	1:42:A:SER:HB3	5	0.18
(1,870)	1:42:A:SER:HB3	1:16:A:SER:HB2	5	0.18
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB1	4	0.18
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB2	4	0.18
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB3	4	0.18
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB1	8	0.18
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB2	8	0.18
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB3	8	0.18
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB1	9	0.18
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB2	9	0.18
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB3	9	0.18
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB1	11	0.18
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB2	11	0.18
(1,818)	1:45:A:GLY:H	1:44:A:ALA:HB3	11	0.18
(1,808)	1:59:A:HIS:H	1:58:A:GLY:HA2	18	0.18
(1,780)	1:66:A:PHE:H	1:65:A:HIS:HB3	13	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,747)	1:22:A:LEU:H	1:19:A:ASP:HA	5	0.18
(1,747)	1:22:A:LEU:H	1:19:A:ASP:HA	19	0.18
(1,716)	1:67:A:GLN:H	1:66:A:PHE:HB3	19	0.18
(1,708)	1:41:A:VAL:H	1:38:A:LEU:HA	4	0.18
(1,708)	1:41:A:VAL:H	1:38:A:LEU:HA	10	0.18
(1,708)	1:41:A:VAL:H	1:38:A:LEU:HA	11	0.18
(1,708)	1:41:A:VAL:H	1:38:A:LEU:HA	14	0.18
(1,708)	1:41:A:VAL:H	1:38:A:LEU:HA	15	0.18
(1,708)	1:41:A:VAL:H	1:38:A:LEU:HA	16	0.18
(1,685)	1:80:A:ILE:H	1:65:A:HIS:HB3	3	0.18
(1,685)	1:80:A:ILE:H	1:65:A:HIS:HB3	10	0.18
(1,660)	1:27:A:PHE:H	1:26:A:THR:HA	19	0.18
(1,598)	1:43:A:ARG:H	1:42:A:SER:HB2	2	0.18
(1,596)	1:43:A:ARG:H	1:42:A:SER:HA	3	0.18
(1,596)	1:43:A:ARG:H	1:42:A:SER:HA	4	0.18
(1,596)	1:43:A:ARG:H	1:42:A:SER:HA	6	0.18
(1,596)	1:43:A:ARG:H	1:42:A:SER:HA	17	0.18
(1,596)	1:43:A:ARG:H	1:42:A:SER:HA	19	0.18
(1,586)	1:33:A:LEU:H	1:32:A:GLU:HA	1	0.18
(1,586)	1:33:A:LEU:H	1:32:A:GLU:HA	2	0.18
(1,586)	1:33:A:LEU:H	1:32:A:GLU:HA	4	0.18
(1,586)	1:33:A:LEU:H	1:32:A:GLU:HA	5	0.18
(1,586)	1:33:A:LEU:H	1:32:A:GLU:HA	6	0.18
(1,586)	1:33:A:LEU:H	1:32:A:GLU:HA	7	0.18
(1,586)	1:33:A:LEU:H	1:32:A:GLU:HA	10	0.18
(1,586)	1:33:A:LEU:H	1:32:A:GLU:HA	12	0.18
(1,586)	1:33:A:LEU:H	1:32:A:GLU:HA	14	0.18
(1,586)	1:33:A:LEU:H	1:32:A:GLU:HA	15	0.18
(1,586)	1:33:A:LEU:H	1:32:A:GLU:HA	16	0.18
(1,586)	1:33:A:LEU:H	1:32:A:GLU:HA	17	0.18
(1,586)	1:33:A:LEU:H	1:32:A:GLU:HA	18	0.18
(1,586)	1:33:A:LEU:H	1:32:A:GLU:HA	19	0.18
(1,559)	1:6:A:THR:HA	1:15:A:ASN:HA	1	0.18
(1,556)	1:6:A:THR:HA	1:15:A:ASN:HA	1	0.18
(1,524)	1:78:A:PRO:HD3	1:77:A:VAL:HB	7	0.18
(1,524)	1:78:A:PRO:HD3	1:77:A:VAL:HB	15	0.18
(1,524)	1:78:A:PRO:HD3	1:77:A:VAL:HB	18	0.18
(1,489)	1:39:A:LYS:HB3	1:36:A:LEU:HA	1	0.18
(1,489)	1:39:A:LYS:HB3	1:36:A:LEU:HA	2	0.18
(1,489)	1:39:A:LYS:HB3	1:36:A:LEU:HA	4	0.18
(1,489)	1:39:A:LYS:HB3	1:36:A:LEU:HA	9	0.18
(1,423)	1:28:A:PRO:HD3	1:27:A:PHE:HB2	2	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,423)	1:28:A:PRO:HD3	1:27:A:PHE:HB2	5	0.18
(1,418)	1:28:A:PRO:HD3	1:37:A:TRP:HZ3	9	0.18
(1,416)	1:15:A:ASN:HA	1:6:A:THR:HA	1	0.18
(1,367)	1:37:A:TRP:HB3	1:27:A:PHE:HD1	5	0.18
(1,367)	1:37:A:TRP:HB3	1:27:A:PHE:HD2	5	0.18
(1,297)	1:39:A:LYS:HG2	1:36:A:LEU:HA	19	0.18
(1,295)	1:38:A:LEU:HB2	1:35:A:ARG:HA	8	0.18
(1,294)	1:38:A:LEU:HB2	1:39:A:LYS:H	5	0.18
(1,294)	1:38:A:LEU:HB2	1:39:A:LYS:H	11	0.18
(1,294)	1:38:A:LEU:HB2	1:39:A:LYS:H	16	0.18
(1,258)	1:6:A:THR:HA	1:15:A:ASN:HA	1	0.18
(1,250)	1:7:A:CYS:HB2	1:62:A:CYS:HB2	6	0.18
(1,224)	1:28:A:PRO:HA	1:29:A:LYS:H	1	0.18
(1,224)	1:28:A:PRO:HA	1:29:A:LYS:H	5	0.18
(1,224)	1:28:A:PRO:HA	1:29:A:LYS:H	18	0.18
(1,192)	1:71:A:LYS:HE2	1:70:A:ARG:H	13	0.18
(1,174)	1:33:A:LEU:HG	1:28:A:PRO:HG2	14	0.18
(1,143)	1:62:A:CYS:HB2	1:7:A:CYS:HB2	6	0.18
(1,53)	1:32:A:GLU:HA	1:34:A:ARG:H	14	0.18
(1,53)	1:32:A:GLU:HA	1:34:A:ARG:H	15	0.18
(1,53)	1:32:A:GLU:HA	1:34:A:ARG:H	16	0.18
(1,53)	1:32:A:GLU:HA	1:34:A:ARG:H	19	0.18
(1,1765)	1:65:A:HIS:HD2	1:61:A:LEU:HG	9	0.17
(1,1764)	1:61:A:LEU:HG	1:65:A:HIS:HD2	9	0.17
(1,1606)	1:14:A:ASN:HB2	1:24:A:PHE:HZ	6	0.17
(1,1604)	1:24:A:PHE:HZ	1:14:A:ASN:HB2	6	0.17
(1,1550)	1:27:A:PHE:HE1	1:38:A:LEU:HA	11	0.17
(1,1550)	1:27:A:PHE:HE2	1:38:A:LEU:HA	11	0.17
(1,1518)	1:58:A:GLY:HA2	1:59:A:HIS:H	13	0.17
(1,1518)	1:58:A:GLY:HA2	1:59:A:HIS:H	15	0.17
(1,1518)	1:58:A:GLY:HA2	1:59:A:HIS:H	17	0.17
(1,1488)	1:15:A:ASN:H	1:14:A:ASN:HA	4	0.17
(1,1488)	1:15:A:ASN:H	1:14:A:ASN:HA	8	0.17
(1,1465)	1:27:A:PHE:HD1	1:61:A:LEU:HD21	8	0.17
(1,1465)	1:27:A:PHE:HD1	1:61:A:LEU:HD22	8	0.17
(1,1465)	1:27:A:PHE:HD1	1:61:A:LEU:HD23	8	0.17
(1,1465)	1:27:A:PHE:HD2	1:61:A:LEU:HD21	8	0.17
(1,1465)	1:27:A:PHE:HD2	1:61:A:LEU:HD22	8	0.17
(1,1465)	1:27:A:PHE:HD2	1:61:A:LEU:HD23	8	0.17
(1,1459)	1:26:A:THR:H	1:25:A:TYR:HA	2	0.17
(1,1378)	1:15:A:ASN:HA	1:16:A:SER:H	8	0.17
(1,1356)	1:9:A:VAL:HG11	1:81:A:PHE:HD1	5	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1356)	1:9:A:VAL:HG11	1:81:A:PHE:HD2	5	0.17
(1,1356)	1:9:A:VAL:HG12	1:81:A:PHE:HD1	5	0.17
(1,1356)	1:9:A:VAL:HG12	1:81:A:PHE:HD2	5	0.17
(1,1356)	1:9:A:VAL:HG13	1:81:A:PHE:HD1	5	0.17
(1,1356)	1:9:A:VAL:HG13	1:81:A:PHE:HD2	5	0.17
(1,1321)	1:16:A:SER:H	1:15:A:ASN:HA	8	0.17
(1,1298)	1:27:A:PHE:HE1	1:37:A:TRP:HE3	18	0.17
(1,1298)	1:27:A:PHE:HE2	1:37:A:TRP:HE3	18	0.17
(1,1266)	1:43:A:ARG:H	1:42:A:SER:H	11	0.17
(1,1266)	1:43:A:ARG:H	1:42:A:SER:H	12	0.17
(1,1221)	1:63:A:SER:H	1:64:A:VAL:H	5	0.17
(1,1216)	1:35:A:ARG:HA	1:38:A:LEU:HB3	5	0.17
(1,1216)	1:35:A:ARG:HA	1:38:A:LEU:HB3	6	0.17
(1,1216)	1:35:A:ARG:HA	1:38:A:LEU:HB3	11	0.17
(1,1216)	1:35:A:ARG:HA	1:38:A:LEU:HB3	14	0.17
(1,1216)	1:35:A:ARG:HA	1:38:A:LEU:HB3	16	0.17
(1,1216)	1:35:A:ARG:HA	1:38:A:LEU:HB3	19	0.17
(1,1179)	1:23:A:HIS:H	1:22:A:LEU:HB3	5	0.17
(1,1179)	1:23:A:HIS:H	1:22:A:LEU:HB3	13	0.17
(1,1177)	1:21:A:ALA:H	1:22:A:LEU:H	4	0.17
(1,1177)	1:21:A:ALA:H	1:22:A:LEU:H	7	0.17
(1,1177)	1:21:A:ALA:H	1:22:A:LEU:H	15	0.17
(1,1101)	1:14:A:ASN:HD22	1:64:A:VAL:HG21	6	0.17
(1,1101)	1:14:A:ASN:HD22	1:64:A:VAL:HG22	6	0.17
(1,1101)	1:14:A:ASN:HD22	1:64:A:VAL:HG23	6	0.17
(1,998)	1:22:A:LEU:HB3	1:23:A:HIS:H	5	0.17
(1,998)	1:22:A:LEU:HB3	1:23:A:HIS:H	13	0.17
(1,997)	1:38:A:LEU:HG	1:27:A:PHE:HD1	7	0.17
(1,997)	1:38:A:LEU:HG	1:27:A:PHE:HD2	7	0.17
(1,997)	1:38:A:LEU:HG	1:27:A:PHE:HD1	18	0.17
(1,997)	1:38:A:LEU:HG	1:27:A:PHE:HD2	18	0.17
(1,995)	1:20:A:LYS:H	1:19:A:ASP:H	10	0.17
(1,989)	1:64:A:VAL:H	1:63:A:SER:H	5	0.17
(1,900)	1:22:A:LEU:H	1:21:A:ALA:H	4	0.17
(1,900)	1:22:A:LEU:H	1:21:A:ALA:H	7	0.17
(1,900)	1:22:A:LEU:H	1:21:A:ALA:H	15	0.17
(1,838)	1:21:A:ALA:H	1:19:A:ASP:HA	7	0.17
(1,808)	1:59:A:HIS:H	1:58:A:GLY:HA2	13	0.17
(1,808)	1:59:A:HIS:H	1:58:A:GLY:HA2	15	0.17
(1,808)	1:59:A:HIS:H	1:58:A:GLY:HA2	17	0.17
(1,777)	1:64:A:VAL:H	1:63:A:SER:H	5	0.17
(1,690)	1:80:A:ILE:H	1:79:A:THR:HB	4	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,690)	1:80:A:ILE:H	1:79:A:THR:HB	13	0.17
(1,660)	1:27:A:PHE:H	1:26:A:THR:HA	1	0.17
(1,660)	1:27:A:PHE:H	1:26:A:THR:HA	4	0.17
(1,651)	1:70:A:ARG:H	1:69:A:GLY:HA3	13	0.17
(1,623)	1:19:A:ASP:H	1:20:A:LYS:H	10	0.17
(1,618)	1:16:A:SER:H	1:15:A:ASN:HA	8	0.17
(1,598)	1:43:A:ARG:H	1:42:A:SER:HB2	6	0.17
(1,598)	1:43:A:ARG:H	1:42:A:SER:HB2	7	0.17
(1,598)	1:43:A:ARG:H	1:42:A:SER:HB2	9	0.17
(1,598)	1:43:A:ARG:H	1:42:A:SER:HB2	11	0.17
(1,598)	1:43:A:ARG:H	1:42:A:SER:HB2	12	0.17
(1,598)	1:43:A:ARG:H	1:42:A:SER:HB2	16	0.17
(1,596)	1:43:A:ARG:H	1:42:A:SER:HA	2	0.17
(1,596)	1:43:A:ARG:H	1:42:A:SER:HA	9	0.17
(1,596)	1:43:A:ARG:H	1:42:A:SER:HA	18	0.17
(1,594)	1:5:A:PHE:H	1:4:A:GLY:HA3	8	0.17
(1,586)	1:33:A:LEU:H	1:32:A:GLU:HA	8	0.17
(1,586)	1:33:A:LEU:H	1:32:A:GLU:HA	9	0.17
(1,586)	1:33:A:LEU:H	1:32:A:GLU:HA	13	0.17
(1,571)	1:63:A:SER:H	1:64:A:VAL:H	5	0.17
(1,524)	1:78:A:PRO:HD3	1:77:A:VAL:HB	1	0.17
(1,524)	1:78:A:PRO:HD3	1:77:A:VAL:HB	2	0.17
(1,524)	1:78:A:PRO:HD3	1:77:A:VAL:HB	6	0.17
(1,524)	1:78:A:PRO:HD3	1:77:A:VAL:HB	10	0.17
(1,489)	1:39:A:LYS:HB3	1:36:A:LEU:HA	12	0.17
(1,489)	1:39:A:LYS:HB3	1:36:A:LEU:HA	15	0.17
(1,458)	1:22:A:LEU:HB3	1:23:A:HIS:H	5	0.17
(1,458)	1:22:A:LEU:HB3	1:23:A:HIS:H	13	0.17
(1,444)	1:68:A:GLY:HA2	1:69:A:GLY:H	6	0.17
(1,423)	1:28:A:PRO:HD3	1:27:A:PHE:HB2	7	0.17
(1,417)	1:15:A:ASN:HA	1:16:A:SER:H	8	0.17
(1,387)	1:28:A:PRO:HD2	1:34:A:ARG:HB2	3	0.17
(1,340)	1:68:A:GLY:HA3	1:69:A:GLY:H	11	0.17
(1,315)	1:4:A:GLY:HA3	1:5:A:PHE:H	8	0.17
(1,296)	1:16:A:SER:HB2	1:5:A:PHE:H	4	0.17
(1,295)	1:38:A:LEU:HB2	1:35:A:ARG:HA	2	0.17
(1,295)	1:38:A:LEU:HB2	1:35:A:ARG:HA	7	0.17
(1,274)	1:69:A:GLY:HA3	1:70:A:ARG:H	13	0.17
(1,224)	1:28:A:PRO:HA	1:29:A:LYS:H	9	0.17
(1,224)	1:28:A:PRO:HA	1:29:A:LYS:H	12	0.17
(1,224)	1:28:A:PRO:HA	1:29:A:LYS:H	16	0.17
(1,224)	1:28:A:PRO:HA	1:29:A:LYS:H	17	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,204)	1:22:A:LEU:HD21	1:62:A:CYS:HB3	2	0.17
(1,204)	1:22:A:LEU:HD22	1:62:A:CYS:HB3	2	0.17
(1,204)	1:22:A:LEU:HD23	1:62:A:CYS:HB3	2	0.17
(1,187)	1:62:A:CYS:HB3	1:22:A:LEU:HD21	2	0.17
(1,187)	1:62:A:CYS:HB3	1:22:A:LEU:HD22	2	0.17
(1,187)	1:62:A:CYS:HB3	1:22:A:LEU:HD23	2	0.17
(1,167)	1:45:A:GLY:HA3	1:46:A:VAL:H	3	0.17
(1,160)	1:31:A:ALA:HB1	1:32:A:GLU:HA	9	0.17
(1,160)	1:31:A:ALA:HB2	1:32:A:GLU:HA	9	0.17
(1,160)	1:31:A:ALA:HB3	1:32:A:GLU:HA	9	0.17
(1,160)	1:31:A:ALA:HB1	1:32:A:GLU:HA	13	0.17
(1,160)	1:31:A:ALA:HB2	1:32:A:GLU:HA	13	0.17
(1,160)	1:31:A:ALA:HB3	1:32:A:GLU:HA	13	0.17
(1,160)	1:31:A:ALA:HB1	1:32:A:GLU:HA	18	0.17
(1,160)	1:31:A:ALA:HB2	1:32:A:GLU:HA	18	0.17
(1,160)	1:31:A:ALA:HB3	1:32:A:GLU:HA	18	0.17
(1,1550)	1:27:A:PHE:HE1	1:38:A:LEU:HA	18	0.16
(1,1550)	1:27:A:PHE:HE2	1:38:A:LEU:HA	18	0.16
(1,1518)	1:58:A:GLY:HA2	1:59:A:HIS:H	6	0.16
(1,1518)	1:58:A:GLY:HA2	1:59:A:HIS:H	12	0.16
(1,1514)	1:37:A:TRP:HE3	1:61:A:LEU:HD21	14	0.16
(1,1514)	1:37:A:TRP:HE3	1:61:A:LEU:HD22	14	0.16
(1,1514)	1:37:A:TRP:HE3	1:61:A:LEU:HD23	14	0.16
(1,1502)	1:41:A:VAL:H	1:38:A:LEU:HA	6	0.16
(1,1502)	1:41:A:VAL:H	1:38:A:LEU:HA	8	0.16
(1,1502)	1:41:A:VAL:H	1:38:A:LEU:HA	12	0.16
(1,1502)	1:41:A:VAL:H	1:38:A:LEU:HA	17	0.16
(1,1488)	1:15:A:ASN:H	1:14:A:ASN:HA	17	0.16
(1,1221)	1:63:A:SER:H	1:64:A:VAL:H	16	0.16
(1,1216)	1:35:A:ARG:HA	1:38:A:LEU:HB3	7	0.16
(1,1216)	1:35:A:ARG:HA	1:38:A:LEU:HB3	9	0.16
(1,1216)	1:35:A:ARG:HA	1:38:A:LEU:HB3	10	0.16
(1,1216)	1:35:A:ARG:HA	1:38:A:LEU:HB3	12	0.16
(1,1216)	1:35:A:ARG:HA	1:38:A:LEU:HB3	13	0.16
(1,1179)	1:23:A:HIS:H	1:22:A:LEU:HB3	3	0.16
(1,1179)	1:23:A:HIS:H	1:22:A:LEU:HB3	9	0.16
(1,1179)	1:23:A:HIS:H	1:22:A:LEU:HB3	19	0.16
(1,1177)	1:21:A:ALA:H	1:22:A:LEU:H	1	0.16
(1,1177)	1:21:A:ALA:H	1:22:A:LEU:H	8	0.16
(1,1177)	1:21:A:ALA:H	1:22:A:LEU:H	10	0.16
(1,1101)	1:14:A:ASN:HD22	1:64:A:VAL:HG21	3	0.16
(1,1101)	1:14:A:ASN:HD22	1:64:A:VAL:HG22	3	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1101)	1:14:A:ASN:HD22	1:64:A:VAL:HG23	3	0.16
(1,1092)	1:41:A:VAL:HG11	1:81:A:PHE:HE1	7	0.16
(1,1092)	1:41:A:VAL:HG11	1:81:A:PHE:HE2	7	0.16
(1,1092)	1:41:A:VAL:HG12	1:81:A:PHE:HE1	7	0.16
(1,1092)	1:41:A:VAL:HG12	1:81:A:PHE:HE2	7	0.16
(1,1092)	1:41:A:VAL:HG13	1:81:A:PHE:HE1	7	0.16
(1,1092)	1:41:A:VAL:HG13	1:81:A:PHE:HE2	7	0.16
(1,1084)	1:37:A:TRP:HE1	1:78:A:PRO:HD2	4	0.16
(1,1080)	1:61:A:LEU:HD21	1:37:A:TRP:HE3	14	0.16
(1,1080)	1:61:A:LEU:HD22	1:37:A:TRP:HE3	14	0.16
(1,1080)	1:61:A:LEU:HD23	1:37:A:TRP:HE3	14	0.16
(1,998)	1:22:A:LEU:HB3	1:23:A:HIS:H	3	0.16
(1,998)	1:22:A:LEU:HB3	1:23:A:HIS:H	9	0.16
(1,998)	1:22:A:LEU:HB3	1:23:A:HIS:H	19	0.16
(1,989)	1:64:A:VAL:H	1:63:A:SER:H	16	0.16
(1,968)	1:16:A:SER:HB2	1:42:A:SER:HB3	2	0.16
(1,958)	1:52:A:THR:HA	1:53:A:PHE:H	1	0.16
(1,900)	1:22:A:LEU:H	1:21:A:ALA:H	1	0.16
(1,900)	1:22:A:LEU:H	1:21:A:ALA:H	8	0.16
(1,900)	1:22:A:LEU:H	1:21:A:ALA:H	10	0.16
(1,870)	1:42:A:SER:HB3	1:16:A:SER:HB2	2	0.16
(1,808)	1:59:A:HIS:H	1:58:A:GLY:HA2	6	0.16
(1,808)	1:59:A:HIS:H	1:58:A:GLY:HA2	12	0.16
(1,777)	1:64:A:VAL:H	1:63:A:SER:H	16	0.16
(1,708)	1:41:A:VAL:H	1:38:A:LEU:HA	6	0.16
(1,708)	1:41:A:VAL:H	1:38:A:LEU:HA	8	0.16
(1,708)	1:41:A:VAL:H	1:38:A:LEU:HA	12	0.16
(1,708)	1:41:A:VAL:H	1:38:A:LEU:HA	17	0.16
(1,685)	1:80:A:ILE:H	1:65:A:HIS:HB3	15	0.16
(1,660)	1:27:A:PHE:H	1:26:A:THR:HA	9	0.16
(1,660)	1:27:A:PHE:H	1:26:A:THR:HA	16	0.16
(1,651)	1:70:A:ARG:H	1:69:A:GLY:HA3	16	0.16
(1,598)	1:43:A:ARG:H	1:42:A:SER:HB2	4	0.16
(1,598)	1:43:A:ARG:H	1:42:A:SER:HB2	15	0.16
(1,598)	1:43:A:ARG:H	1:42:A:SER:HB2	18	0.16
(1,596)	1:43:A:ARG:H	1:42:A:SER:HA	1	0.16
(1,596)	1:43:A:ARG:H	1:42:A:SER:HA	8	0.16
(1,596)	1:43:A:ARG:H	1:42:A:SER:HA	11	0.16
(1,596)	1:43:A:ARG:H	1:42:A:SER:HA	12	0.16
(1,596)	1:43:A:ARG:H	1:42:A:SER:HA	15	0.16
(1,596)	1:43:A:ARG:H	1:42:A:SER:HA	16	0.16
(1,571)	1:63:A:SER:H	1:64:A:VAL:H	16	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,524)	1:78:A:PRO:HD3	1:77:A:VAL:HB	4	0.16
(1,489)	1:39:A:LYS:HB3	1:36:A:LEU:HA	16	0.16
(1,489)	1:39:A:LYS:HB3	1:36:A:LEU:HA	17	0.16
(1,458)	1:22:A:LEU:HB3	1:23:A:HIS:H	3	0.16
(1,458)	1:22:A:LEU:HB3	1:23:A:HIS:H	9	0.16
(1,458)	1:22:A:LEU:HB3	1:23:A:HIS:H	19	0.16
(1,444)	1:68:A:GLY:HA2	1:69:A:GLY:H	4	0.16
(1,418)	1:28:A:PRO:HD3	1:37:A:TRP:HZ3	6	0.16
(1,418)	1:28:A:PRO:HD3	1:37:A:TRP:HZ3	11	0.16
(1,387)	1:28:A:PRO:HD2	1:34:A:ARG:HB2	2	0.16
(1,305)	1:60:A:ARG:HB2	1:61:A:LEU:H	3	0.16
(1,295)	1:38:A:LEU:HB2	1:35:A:ARG:HA	1	0.16
(1,274)	1:69:A:GLY:HA3	1:70:A:ARG:H	16	0.16
(1,255)	1:28:A:PRO:HB3	1:33:A:LEU:HG	7	0.16
(1,255)	1:28:A:PRO:HB3	1:33:A:LEU:HG	9	0.16
(1,255)	1:28:A:PRO:HB3	1:33:A:LEU:HG	17	0.16
(1,244)	1:22:A:LEU:HD11	1:14:A:ASN:HD22	8	0.16
(1,244)	1:22:A:LEU:HD12	1:14:A:ASN:HD22	8	0.16
(1,244)	1:22:A:LEU:HD13	1:14:A:ASN:HD22	8	0.16
(1,224)	1:28:A:PRO:HA	1:29:A:LYS:H	3	0.16
(1,224)	1:28:A:PRO:HA	1:29:A:LYS:H	7	0.16
(1,224)	1:28:A:PRO:HA	1:29:A:LYS:H	8	0.16
(1,224)	1:28:A:PRO:HA	1:29:A:LYS:H	10	0.16
(1,224)	1:28:A:PRO:HA	1:29:A:LYS:H	11	0.16
(1,224)	1:28:A:PRO:HA	1:29:A:LYS:H	14	0.16
(1,224)	1:28:A:PRO:HA	1:29:A:LYS:H	19	0.16
(1,160)	1:31:A:ALA:HB1	1:32:A:GLU:HA	1	0.16
(1,160)	1:31:A:ALA:HB2	1:32:A:GLU:HA	1	0.16
(1,160)	1:31:A:ALA:HB3	1:32:A:GLU:HA	1	0.16
(1,160)	1:31:A:ALA:HB1	1:32:A:GLU:HA	2	0.16
(1,160)	1:31:A:ALA:HB2	1:32:A:GLU:HA	2	0.16
(1,160)	1:31:A:ALA:HB3	1:32:A:GLU:HA	2	0.16
(1,160)	1:31:A:ALA:HB1	1:32:A:GLU:HA	3	0.16
(1,160)	1:31:A:ALA:HB2	1:32:A:GLU:HA	3	0.16
(1,160)	1:31:A:ALA:HB3	1:32:A:GLU:HA	3	0.16
(1,160)	1:31:A:ALA:HB1	1:32:A:GLU:HA	4	0.16
(1,160)	1:31:A:ALA:HB2	1:32:A:GLU:HA	4	0.16
(1,160)	1:31:A:ALA:HB3	1:32:A:GLU:HA	4	0.16
(1,160)	1:31:A:ALA:HB1	1:32:A:GLU:HA	5	0.16
(1,160)	1:31:A:ALA:HB2	1:32:A:GLU:HA	5	0.16
(1,160)	1:31:A:ALA:HB3	1:32:A:GLU:HA	5	0.16
(1,160)	1:31:A:ALA:HB1	1:32:A:GLU:HA	6	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,160)	1:31:A:ALA:HB2	1:32:A:GLU:HA	6	0.16
(1,160)	1:31:A:ALA:HB3	1:32:A:GLU:HA	6	0.16
(1,160)	1:31:A:ALA:HB1	1:32:A:GLU:HA	7	0.16
(1,160)	1:31:A:ALA:HB2	1:32:A:GLU:HA	7	0.16
(1,160)	1:31:A:ALA:HB3	1:32:A:GLU:HA	7	0.16
(1,160)	1:31:A:ALA:HB1	1:32:A:GLU:HA	8	0.16
(1,160)	1:31:A:ALA:HB2	1:32:A:GLU:HA	8	0.16
(1,160)	1:31:A:ALA:HB3	1:32:A:GLU:HA	8	0.16
(1,160)	1:31:A:ALA:HB1	1:32:A:GLU:HA	11	0.16
(1,160)	1:31:A:ALA:HB2	1:32:A:GLU:HA	11	0.16
(1,160)	1:31:A:ALA:HB3	1:32:A:GLU:HA	11	0.16
(1,160)	1:31:A:ALA:HB1	1:32:A:GLU:HA	12	0.16
(1,160)	1:31:A:ALA:HB2	1:32:A:GLU:HA	12	0.16
(1,160)	1:31:A:ALA:HB3	1:32:A:GLU:HA	12	0.16
(1,160)	1:31:A:ALA:HB1	1:32:A:GLU:HA	14	0.16
(1,160)	1:31:A:ALA:HB2	1:32:A:GLU:HA	14	0.16
(1,160)	1:31:A:ALA:HB3	1:32:A:GLU:HA	14	0.16
(1,160)	1:31:A:ALA:HB1	1:32:A:GLU:HA	15	0.16
(1,160)	1:31:A:ALA:HB2	1:32:A:GLU:HA	15	0.16
(1,160)	1:31:A:ALA:HB3	1:32:A:GLU:HA	15	0.16
(1,160)	1:31:A:ALA:HB1	1:32:A:GLU:HA	16	0.16
(1,160)	1:31:A:ALA:HB2	1:32:A:GLU:HA	16	0.16
(1,160)	1:31:A:ALA:HB3	1:32:A:GLU:HA	16	0.16
(1,160)	1:31:A:ALA:HB1	1:32:A:GLU:HA	17	0.16
(1,160)	1:31:A:ALA:HB2	1:32:A:GLU:HA	17	0.16
(1,160)	1:31:A:ALA:HB3	1:32:A:GLU:HA	17	0.16
(1,160)	1:31:A:ALA:HB1	1:32:A:GLU:HA	19	0.16
(1,160)	1:31:A:ALA:HB2	1:32:A:GLU:HA	19	0.16
(1,160)	1:31:A:ALA:HB3	1:32:A:GLU:HA	19	0.16
(1,53)	1:32:A:GLU:HA	1:34:A:ARG:H	9	0.16
(1,53)	1:32:A:GLU:HA	1:34:A:ARG:H	13	0.16
(1,34)	1:41:A:VAL:HG11	1:81:A:PHE:HE1	7	0.16
(1,34)	1:41:A:VAL:HG11	1:81:A:PHE:HE2	7	0.16
(1,34)	1:41:A:VAL:HG12	1:81:A:PHE:HE1	7	0.16
(1,34)	1:41:A:VAL:HG12	1:81:A:PHE:HE2	7	0.16
(1,34)	1:41:A:VAL:HG13	1:81:A:PHE:HE1	7	0.16
(1,34)	1:41:A:VAL:HG13	1:81:A:PHE:HE2	7	0.16
(1,1765)	1:65:A:HIS:HD2	1:61:A:LEU:HG	11	0.15
(1,1764)	1:61:A:LEU:HG	1:65:A:HIS:HD2	11	0.15
(1,1724)	1:9:A:VAL:HG21	1:13:A:TYR:HA	7	0.15
(1,1724)	1:9:A:VAL:HG22	1:13:A:TYR:HA	7	0.15
(1,1724)	1:9:A:VAL:HG23	1:13:A:TYR:HA	7	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1723)	1:13:A:TYR:HA	1:9:A:VAL:HG21	7	0.15
(1,1723)	1:13:A:TYR:HA	1:9:A:VAL:HG22	7	0.15
(1,1723)	1:13:A:TYR:HA	1:9:A:VAL:HG23	7	0.15
(1,1633)	1:63:A:SER:HB2	1:13:A:TYR:HA	12	0.15
(1,1632)	1:13:A:TYR:HA	1:63:A:SER:HB2	12	0.15
(1,1560)	1:13:A:TYR:HA	1:9:A:VAL:HG21	7	0.15
(1,1560)	1:13:A:TYR:HA	1:9:A:VAL:HG22	7	0.15
(1,1560)	1:13:A:TYR:HA	1:9:A:VAL:HG23	7	0.15
(1,1559)	1:9:A:VAL:HG21	1:13:A:TYR:HA	7	0.15
(1,1559)	1:9:A:VAL:HG22	1:13:A:TYR:HA	7	0.15
(1,1559)	1:9:A:VAL:HG23	1:13:A:TYR:HA	7	0.15
(1,1550)	1:27:A:PHE:HE1	1:38:A:LEU:HA	12	0.15
(1,1550)	1:27:A:PHE:HE2	1:38:A:LEU:HA	12	0.15
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD11	5	0.15
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD12	5	0.15
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD13	5	0.15
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD11	10	0.15
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD12	10	0.15
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD13	10	0.15
(1,1518)	1:58:A:GLY:HA2	1:59:A:HIS:H	1	0.15
(1,1518)	1:58:A:GLY:HA2	1:59:A:HIS:H	16	0.15
(1,1502)	1:41:A:VAL:H	1:38:A:LEU:HA	9	0.15
(1,1488)	1:15:A:ASN:H	1:14:A:ASN:HA	6	0.15
(1,1488)	1:15:A:ASN:H	1:14:A:ASN:HA	11	0.15
(1,1465)	1:27:A:PHE:HD1	1:61:A:LEU:HD21	13	0.15
(1,1465)	1:27:A:PHE:HD1	1:61:A:LEU:HD22	13	0.15
(1,1465)	1:27:A:PHE:HD1	1:61:A:LEU:HD23	13	0.15
(1,1465)	1:27:A:PHE:HD2	1:61:A:LEU:HD21	13	0.15
(1,1465)	1:27:A:PHE:HD2	1:61:A:LEU:HD22	13	0.15
(1,1465)	1:27:A:PHE:HD2	1:61:A:LEU:HD23	13	0.15
(1,1446)	1:66:A:PHE:HZ	1:61:A:LEU:HD21	7	0.15
(1,1446)	1:66:A:PHE:HZ	1:61:A:LEU:HD22	7	0.15
(1,1446)	1:66:A:PHE:HZ	1:61:A:LEU:HD23	7	0.15
(1,1439)	1:66:A:PHE:HA	1:67:A:GLN:H	2	0.15
(1,1429)	1:65:A:HIS:HA	1:80:A:ILE:H	17	0.15
(1,1378)	1:15:A:ASN:HA	1:16:A:SER:H	4	0.15
(1,1377)	1:15:A:ASN:HA	1:24:A:PHE:HZ	12	0.15
(1,1356)	1:9:A:VAL:HG11	1:81:A:PHE:HD1	15	0.15
(1,1356)	1:9:A:VAL:HG11	1:81:A:PHE:HD2	15	0.15
(1,1356)	1:9:A:VAL:HG12	1:81:A:PHE:HD1	15	0.15
(1,1356)	1:9:A:VAL:HG12	1:81:A:PHE:HD2	15	0.15
(1,1356)	1:9:A:VAL:HG13	1:81:A:PHE:HD1	15	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1356)	1:9:A:VAL:HG13	1:81:A:PHE:HD2	15	0.15
(1,1321)	1:16:A:SER:H	1:15:A:ASN:HA	4	0.15
(1,1298)	1:27:A:PHE:HE1	1:37:A:TRP:HE3	8	0.15
(1,1298)	1:27:A:PHE:HE2	1:37:A:TRP:HE3	8	0.15
(1,1289)	1:40:A:ASN:HB2	1:81:A:PHE:HE1	19	0.15
(1,1289)	1:40:A:ASN:HB2	1:81:A:PHE:HE2	19	0.15
(1,1288)	1:81:A:PHE:HZ	1:78:A:PRO:HB3	6	0.15
(1,1288)	1:81:A:PHE:HZ	1:78:A:PRO:HB3	7	0.15
(1,1288)	1:81:A:PHE:HZ	1:78:A:PRO:HB3	15	0.15
(1,1266)	1:43:A:ARG:H	1:42:A:SER:H	16	0.15
(1,1241)	1:62:A:CYS:HA	1:24:A:PHE:HA	8	0.15
(1,1221)	1:63:A:SER:H	1:64:A:VAL:H	14	0.15
(1,1179)	1:23:A:HIS:H	1:22:A:LEU:HB3	2	0.15
(1,1179)	1:23:A:HIS:H	1:22:A:LEU:HB3	12	0.15
(1,1177)	1:21:A:ALA:H	1:22:A:LEU:H	16	0.15
(1,1092)	1:41:A:VAL:HG11	1:81:A:PHE:HE1	16	0.15
(1,1092)	1:41:A:VAL:HG11	1:81:A:PHE:HE2	16	0.15
(1,1092)	1:41:A:VAL:HG12	1:81:A:PHE:HE1	16	0.15
(1,1092)	1:41:A:VAL:HG12	1:81:A:PHE:HE2	16	0.15
(1,1092)	1:41:A:VAL:HG13	1:81:A:PHE:HE1	16	0.15
(1,1092)	1:41:A:VAL:HG13	1:81:A:PHE:HE2	16	0.15
(1,1092)	1:41:A:VAL:HG11	1:81:A:PHE:HE1	19	0.15
(1,1092)	1:41:A:VAL:HG11	1:81:A:PHE:HE2	19	0.15
(1,1092)	1:41:A:VAL:HG12	1:81:A:PHE:HE1	19	0.15
(1,1092)	1:41:A:VAL:HG12	1:81:A:PHE:HE2	19	0.15
(1,1092)	1:41:A:VAL:HG13	1:81:A:PHE:HE1	19	0.15
(1,1092)	1:41:A:VAL:HG13	1:81:A:PHE:HE2	19	0.15
(1,998)	1:22:A:LEU:HB3	1:23:A:HIS:H	2	0.15
(1,998)	1:22:A:LEU:HB3	1:23:A:HIS:H	12	0.15
(1,989)	1:64:A:VAL:H	1:63:A:SER:H	14	0.15
(1,975)	1:68:A:GLY:H	1:67:A:GLN:HA	3	0.15
(1,975)	1:68:A:GLY:H	1:67:A:GLN:HA	10	0.15
(1,975)	1:68:A:GLY:H	1:67:A:GLN:HA	13	0.15
(1,975)	1:68:A:GLY:H	1:67:A:GLN:HA	15	0.15
(1,975)	1:68:A:GLY:H	1:67:A:GLN:HA	16	0.15
(1,946)	1:67:A:GLN:HA	1:68:A:GLY:H	3	0.15
(1,946)	1:67:A:GLN:HA	1:68:A:GLY:H	10	0.15
(1,946)	1:67:A:GLN:HA	1:68:A:GLY:H	13	0.15
(1,946)	1:67:A:GLN:HA	1:68:A:GLY:H	15	0.15
(1,946)	1:67:A:GLN:HA	1:68:A:GLY:H	16	0.15
(1,908)	1:36:A:LEU:HA	1:37:A:TRP:HD1	13	0.15
(1,900)	1:22:A:LEU:H	1:21:A:ALA:H	16	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,873)	1:67:A:GLN:H	1:66:A:PHE:HA	2	0.15
(1,808)	1:59:A:HIS:H	1:58:A:GLY:HA2	1	0.15
(1,808)	1:59:A:HIS:H	1:58:A:GLY:HA2	16	0.15
(1,777)	1:64:A:VAL:H	1:63:A:SER:H	14	0.15
(1,768)	1:68:A:GLY:H	1:67:A:GLN:HA	3	0.15
(1,768)	1:68:A:GLY:H	1:67:A:GLN:HA	10	0.15
(1,768)	1:68:A:GLY:H	1:67:A:GLN:HA	13	0.15
(1,768)	1:68:A:GLY:H	1:67:A:GLN:HA	15	0.15
(1,768)	1:68:A:GLY:H	1:67:A:GLN:HA	16	0.15
(1,719)	1:67:A:GLN:H	1:66:A:PHE:HA	2	0.15
(1,708)	1:41:A:VAL:H	1:38:A:LEU:HA	9	0.15
(1,690)	1:80:A:ILE:H	1:79:A:THR:HB	9	0.15
(1,690)	1:80:A:ILE:H	1:79:A:THR:HB	15	0.15
(1,687)	1:80:A:ILE:H	1:65:A:HIS:HA	17	0.15
(1,685)	1:80:A:ILE:H	1:65:A:HIS:HB3	17	0.15
(1,660)	1:27:A:PHE:H	1:26:A:THR:HA	8	0.15
(1,660)	1:27:A:PHE:H	1:26:A:THR:HA	11	0.15
(1,660)	1:27:A:PHE:H	1:26:A:THR:HA	13	0.15
(1,660)	1:27:A:PHE:H	1:26:A:THR:HA	14	0.15
(1,618)	1:16:A:SER:H	1:15:A:ASN:HA	4	0.15
(1,598)	1:43:A:ARG:H	1:42:A:SER:HB2	8	0.15
(1,598)	1:43:A:ARG:H	1:42:A:SER:HB2	10	0.15
(1,598)	1:43:A:ARG:H	1:42:A:SER:HB2	13	0.15
(1,596)	1:43:A:ARG:H	1:42:A:SER:HA	7	0.15
(1,596)	1:43:A:ARG:H	1:42:A:SER:HA	13	0.15
(1,596)	1:43:A:ARG:H	1:42:A:SER:HA	14	0.15
(1,571)	1:63:A:SER:H	1:64:A:VAL:H	14	0.15
(1,559)	1:6:A:THR:HA	1:15:A:ASN:HA	8	0.15
(1,556)	1:6:A:THR:HA	1:15:A:ASN:HA	8	0.15
(1,524)	1:78:A:PRO:HD3	1:77:A:VAL:HB	8	0.15
(1,524)	1:78:A:PRO:HD3	1:77:A:VAL:HB	12	0.15
(1,519)	1:67:A:GLN:HA	1:68:A:GLY:H	3	0.15
(1,519)	1:67:A:GLN:HA	1:68:A:GLY:H	10	0.15
(1,519)	1:67:A:GLN:HA	1:68:A:GLY:H	13	0.15
(1,519)	1:67:A:GLN:HA	1:68:A:GLY:H	15	0.15
(1,519)	1:67:A:GLN:HA	1:68:A:GLY:H	16	0.15
(1,504)	1:62:A:CYS:HA	1:24:A:PHE:HA	8	0.15
(1,489)	1:39:A:LYS:HB3	1:36:A:LEU:HA	13	0.15
(1,489)	1:39:A:LYS:HB3	1:36:A:LEU:HA	14	0.15
(1,458)	1:22:A:LEU:HB3	1:23:A:HIS:H	2	0.15
(1,458)	1:22:A:LEU:HB3	1:23:A:HIS:H	12	0.15
(1,418)	1:28:A:PRO:HD3	1:37:A:TRP:HZ3	12	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,418)	1:28:A:PRO:HD3	1:37:A:TRP:HZ3	15	0.15
(1,417)	1:15:A:ASN:HA	1:16:A:SER:H	4	0.15
(1,416)	1:15:A:ASN:HA	1:6:A:THR:HA	8	0.15
(1,387)	1:28:A:PRO:HD2	1:34:A:ARG:HB2	4	0.15
(1,387)	1:28:A:PRO:HD2	1:34:A:ARG:HB2	5	0.15
(1,381)	1:28:A:PRO:HD2	1:37:A:TRP:HZ3	3	0.15
(1,359)	1:78:A:PRO:HB3	1:81:A:PHE:HZ	6	0.15
(1,359)	1:78:A:PRO:HB3	1:81:A:PHE:HZ	7	0.15
(1,359)	1:78:A:PRO:HB3	1:81:A:PHE:HZ	15	0.15
(1,340)	1:68:A:GLY:HA3	1:69:A:GLY:H	12	0.15
(1,340)	1:68:A:GLY:HA3	1:69:A:GLY:H	14	0.15
(1,340)	1:68:A:GLY:HA3	1:69:A:GLY:H	15	0.15
(1,332)	1:16:A:SER:HB3	1:5:A:PHE:HD1	4	0.15
(1,332)	1:16:A:SER:HB3	1:5:A:PHE:HD2	4	0.15
(1,332)	1:16:A:SER:HB3	1:5:A:PHE:HD1	8	0.15
(1,332)	1:16:A:SER:HB3	1:5:A:PHE:HD2	8	0.15
(1,305)	1:60:A:ARG:HB2	1:61:A:LEU:H	10	0.15
(1,258)	1:6:A:THR:HA	1:15:A:ASN:HA	8	0.15
(1,255)	1:28:A:PRO:HB3	1:33:A:LEU:HG	6	0.15
(1,255)	1:28:A:PRO:HB3	1:33:A:LEU:HG	13	0.15
(1,255)	1:28:A:PRO:HB3	1:33:A:LEU:HG	19	0.15
(1,244)	1:22:A:LEU:HD11	1:14:A:ASN:HD22	2	0.15
(1,244)	1:22:A:LEU:HD12	1:14:A:ASN:HD22	2	0.15
(1,244)	1:22:A:LEU:HD13	1:14:A:ASN:HD22	2	0.15
(1,236)	1:61:A:LEU:HD11	1:37:A:TRP:HH2	5	0.15
(1,236)	1:61:A:LEU:HD12	1:37:A:TRP:HH2	5	0.15
(1,236)	1:61:A:LEU:HD13	1:37:A:TRP:HH2	5	0.15
(1,234)	1:61:A:LEU:HD11	1:65:A:HIS:HD2	5	0.15
(1,234)	1:61:A:LEU:HD12	1:65:A:HIS:HD2	5	0.15
(1,234)	1:61:A:LEU:HD13	1:65:A:HIS:HD2	5	0.15
(1,234)	1:61:A:LEU:HD11	1:65:A:HIS:HD2	10	0.15
(1,234)	1:61:A:LEU:HD12	1:65:A:HIS:HD2	10	0.15
(1,234)	1:61:A:LEU:HD13	1:65:A:HIS:HD2	10	0.15
(1,224)	1:28:A:PRO:HA	1:29:A:LYS:H	2	0.15
(1,224)	1:28:A:PRO:HA	1:29:A:LYS:H	4	0.15
(1,224)	1:28:A:PRO:HA	1:29:A:LYS:H	6	0.15
(1,224)	1:28:A:PRO:HA	1:29:A:LYS:H	15	0.15
(1,192)	1:71:A:LYS:HE2	1:70:A:ARG:H	4	0.15
(1,192)	1:71:A:LYS:HE2	1:70:A:ARG:H	16	0.15
(1,162)	1:31:A:ALA:HB1	1:32:A:GLU:H	9	0.15
(1,162)	1:31:A:ALA:HB2	1:32:A:GLU:H	9	0.15
(1,162)	1:31:A:ALA:HB3	1:32:A:GLU:H	9	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,162)	1:31:A:ALA:HB1	1:32:A:GLU:H	13	0.15
(1,162)	1:31:A:ALA:HB2	1:32:A:GLU:H	13	0.15
(1,162)	1:31:A:ALA:HB3	1:32:A:GLU:H	13	0.15
(1,160)	1:31:A:ALA:HB1	1:32:A:GLU:HA	10	0.15
(1,160)	1:31:A:ALA:HB2	1:32:A:GLU:HA	10	0.15
(1,160)	1:31:A:ALA:HB3	1:32:A:GLU:HA	10	0.15
(1,122)	1:36:A:LEU:HA	1:37:A:TRP:HD1	13	0.15
(1,113)	1:61:A:LEU:HD21	1:81:A:PHE:HD1	13	0.15
(1,113)	1:61:A:LEU:HD21	1:81:A:PHE:HD2	13	0.15
(1,113)	1:61:A:LEU:HD22	1:81:A:PHE:HD1	13	0.15
(1,113)	1:61:A:LEU:HD22	1:81:A:PHE:HD2	13	0.15
(1,113)	1:61:A:LEU:HD23	1:81:A:PHE:HD1	13	0.15
(1,113)	1:61:A:LEU:HD23	1:81:A:PHE:HD2	13	0.15
(1,98)	1:31:A:ALA:HA	1:34:A:ARG:H	12	0.15
(1,98)	1:31:A:ALA:HA	1:34:A:ARG:H	18	0.15
(1,36)	1:46:A:VAL:HG11	1:47:A:SER:HB3	12	0.15
(1,36)	1:46:A:VAL:HG12	1:47:A:SER:HB3	12	0.15
(1,36)	1:46:A:VAL:HG13	1:47:A:SER:HB3	12	0.15
(1,34)	1:41:A:VAL:HG11	1:81:A:PHE:HE1	16	0.15
(1,34)	1:41:A:VAL:HG11	1:81:A:PHE:HE2	16	0.15
(1,34)	1:41:A:VAL:HG12	1:81:A:PHE:HE1	16	0.15
(1,34)	1:41:A:VAL:HG12	1:81:A:PHE:HE2	16	0.15
(1,34)	1:41:A:VAL:HG13	1:81:A:PHE:HE1	16	0.15
(1,34)	1:41:A:VAL:HG13	1:81:A:PHE:HE2	16	0.15
(1,34)	1:41:A:VAL:HG11	1:81:A:PHE:HE1	19	0.15
(1,34)	1:41:A:VAL:HG11	1:81:A:PHE:HE2	19	0.15
(1,34)	1:41:A:VAL:HG12	1:81:A:PHE:HE1	19	0.15
(1,34)	1:41:A:VAL:HG12	1:81:A:PHE:HE2	19	0.15
(1,34)	1:41:A:VAL:HG13	1:81:A:PHE:HE1	19	0.15
(1,34)	1:41:A:VAL:HG13	1:81:A:PHE:HE2	19	0.15
(1,1765)	1:65:A:HIS:HD2	1:61:A:LEU:HG	3	0.14
(1,1764)	1:61:A:LEU:HG	1:65:A:HIS:HD2	3	0.14
(1,1726)	1:5:A:PHE:HB2	1:16:A:SER:HB3	2	0.14
(1,1725)	1:16:A:SER:HB3	1:5:A:PHE:HB2	2	0.14
(1,1701)	1:65:A:HIS:HD2	1:61:A:LEU:HB2	7	0.14
(1,1700)	1:61:A:LEU:HB2	1:65:A:HIS:HD2	7	0.14
(1,1693)	1:14:A:ASN:HB2	1:9:A:VAL:HB	2	0.14
(1,1692)	1:9:A:VAL:HB	1:14:A:ASN:HB2	2	0.14
(1,1633)	1:63:A:SER:HB2	1:13:A:TYR:HA	10	0.14
(1,1633)	1:63:A:SER:HB2	1:13:A:TYR:HA	19	0.14
(1,1632)	1:13:A:TYR:HA	1:63:A:SER:HB2	10	0.14
(1,1632)	1:13:A:TYR:HA	1:63:A:SER:HB2	19	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1550)	1:27:A:PHE:HE1	1:38:A:LEU:HA	13	0.14
(1,1550)	1:27:A:PHE:HE2	1:38:A:LEU:HA	13	0.14
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD11	12	0.14
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD12	12	0.14
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD13	12	0.14
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD11	16	0.14
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD12	16	0.14
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD13	16	0.14
(1,1518)	1:58:A:GLY:HA2	1:59:A:HIS:H	4	0.14
(1,1518)	1:58:A:GLY:HA2	1:59:A:HIS:H	9	0.14
(1,1514)	1:37:A:TRP:HE3	1:61:A:LEU:HD21	16	0.14
(1,1514)	1:37:A:TRP:HE3	1:61:A:LEU:HD22	16	0.14
(1,1514)	1:37:A:TRP:HE3	1:61:A:LEU:HD23	16	0.14
(1,1502)	1:41:A:VAL:H	1:38:A:LEU:HA	13	0.14
(1,1491)	1:15:A:ASN:H	1:24:A:PHE:HZ	1	0.14
(1,1488)	1:15:A:ASN:H	1:14:A:ASN:HA	2	0.14
(1,1378)	1:15:A:ASN:HA	1:16:A:SER:H	1	0.14
(1,1377)	1:15:A:ASN:HA	1:24:A:PHE:HZ	2	0.14
(1,1356)	1:9:A:VAL:HG11	1:81:A:PHE:HD1	10	0.14
(1,1356)	1:9:A:VAL:HG11	1:81:A:PHE:HD2	10	0.14
(1,1356)	1:9:A:VAL:HG12	1:81:A:PHE:HD1	10	0.14
(1,1356)	1:9:A:VAL:HG12	1:81:A:PHE:HD2	10	0.14
(1,1356)	1:9:A:VAL:HG13	1:81:A:PHE:HD1	10	0.14
(1,1356)	1:9:A:VAL:HG13	1:81:A:PHE:HD2	10	0.14
(1,1356)	1:9:A:VAL:HG11	1:81:A:PHE:HD1	12	0.14
(1,1356)	1:9:A:VAL:HG11	1:81:A:PHE:HD2	12	0.14
(1,1356)	1:9:A:VAL:HG12	1:81:A:PHE:HD1	12	0.14
(1,1356)	1:9:A:VAL:HG12	1:81:A:PHE:HD2	12	0.14
(1,1356)	1:9:A:VAL:HG13	1:81:A:PHE:HD1	12	0.14
(1,1356)	1:9:A:VAL:HG13	1:81:A:PHE:HD2	12	0.14
(1,1321)	1:16:A:SER:H	1:15:A:ASN:HA	1	0.14
(1,1298)	1:27:A:PHE:HE1	1:37:A:TRP:HE3	6	0.14
(1,1298)	1:27:A:PHE:HE2	1:37:A:TRP:HE3	6	0.14
(1,1288)	1:81:A:PHE:HZ	1:78:A:PRO:HB3	17	0.14
(1,1288)	1:81:A:PHE:HZ	1:78:A:PRO:HB3	19	0.14
(1,1266)	1:43:A:ARG:H	1:42:A:SER:H	7	0.14
(1,1266)	1:43:A:ARG:H	1:42:A:SER:H	8	0.14
(1,1266)	1:43:A:ARG:H	1:42:A:SER:H	13	0.14
(1,1241)	1:62:A:CYS:HA	1:24:A:PHE:HA	1	0.14
(1,1222)	1:63:A:SER:H	1:62:A:CYS:HB2	2	0.14
(1,1221)	1:63:A:SER:H	1:64:A:VAL:H	9	0.14
(1,1221)	1:63:A:SER:H	1:64:A:VAL:H	13	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1216)	1:35:A:ARG:HA	1:38:A:LEU:HB3	1	0.14
(1,1216)	1:35:A:ARG:HA	1:38:A:LEU:HB3	4	0.14
(1,1209)	1:78:A:PRO:HD3	1:37:A:TRP:HD1	1	0.14
(1,1179)	1:23:A:HIS:H	1:22:A:LEU:HB3	1	0.14
(1,1179)	1:23:A:HIS:H	1:22:A:LEU:HB3	8	0.14
(1,1177)	1:21:A:ALA:H	1:22:A:LEU:H	9	0.14
(1,1177)	1:21:A:ALA:H	1:22:A:LEU:H	13	0.14
(1,1177)	1:21:A:ALA:H	1:22:A:LEU:H	17	0.14
(1,1157)	1:62:A:CYS:H	1:61:A:LEU:HA	9	0.14
(1,1157)	1:62:A:CYS:H	1:61:A:LEU:HA	19	0.14
(1,1120)	1:24:A:PHE:HZ	1:15:A:ASN:H	1	0.14
(1,1105)	1:61:A:LEU:HA	1:62:A:CYS:H	9	0.14
(1,1105)	1:61:A:LEU:HA	1:62:A:CYS:H	19	0.14
(1,1101)	1:14:A:ASN:HD22	1:64:A:VAL:HG21	17	0.14
(1,1101)	1:14:A:ASN:HD22	1:64:A:VAL:HG22	17	0.14
(1,1101)	1:14:A:ASN:HD22	1:64:A:VAL:HG23	17	0.14
(1,1086)	1:37:A:TRP:HE1	1:77:A:VAL:HA	19	0.14
(1,1084)	1:37:A:TRP:HE1	1:78:A:PRO:HD2	7	0.14
(1,1084)	1:37:A:TRP:HE1	1:78:A:PRO:HD2	15	0.14
(1,1080)	1:61:A:LEU:HD21	1:37:A:TRP:HE3	16	0.14
(1,1080)	1:61:A:LEU:HD22	1:37:A:TRP:HE3	16	0.14
(1,1080)	1:61:A:LEU:HD23	1:37:A:TRP:HE3	16	0.14
(1,1078)	1:61:A:LEU:HD21	1:37:A:TRP:HH2	17	0.14
(1,1078)	1:61:A:LEU:HD22	1:37:A:TRP:HH2	17	0.14
(1,1078)	1:61:A:LEU:HD23	1:37:A:TRP:HH2	17	0.14
(1,1058)	1:59:A:HIS:HB2	1:27:A:PHE:HE1	6	0.14
(1,1058)	1:59:A:HIS:HB2	1:27:A:PHE:HE2	6	0.14
(1,1058)	1:59:A:HIS:HB2	1:27:A:PHE:HE1	11	0.14
(1,1058)	1:59:A:HIS:HB2	1:27:A:PHE:HE2	11	0.14
(1,1058)	1:59:A:HIS:HB2	1:27:A:PHE:HE1	19	0.14
(1,1058)	1:59:A:HIS:HB2	1:27:A:PHE:HE2	19	0.14
(1,1045)	1:62:A:CYS:HB2	1:63:A:SER:H	2	0.14
(1,998)	1:22:A:LEU:HB3	1:23:A:HIS:H	1	0.14
(1,998)	1:22:A:LEU:HB3	1:23:A:HIS:H	8	0.14
(1,997)	1:38:A:LEU:HG	1:27:A:PHE:HD1	3	0.14
(1,997)	1:38:A:LEU:HG	1:27:A:PHE:HD2	3	0.14
(1,995)	1:20:A:LYS:H	1:19:A:ASP:H	15	0.14
(1,989)	1:64:A:VAL:H	1:63:A:SER:H	9	0.14
(1,989)	1:64:A:VAL:H	1:63:A:SER:H	13	0.14
(1,975)	1:68:A:GLY:H	1:67:A:GLN:HA	5	0.14
(1,975)	1:68:A:GLY:H	1:67:A:GLN:HA	9	0.14
(1,975)	1:68:A:GLY:H	1:67:A:GLN:HA	14	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,975)	1:68:A:GLY:H	1:67:A:GLN:HA	18	0.14
(1,946)	1:67:A:GLN:HA	1:68:A:GLY:H	5	0.14
(1,946)	1:67:A:GLN:HA	1:68:A:GLY:H	9	0.14
(1,946)	1:67:A:GLN:HA	1:68:A:GLY:H	14	0.14
(1,946)	1:67:A:GLN:HA	1:68:A:GLY:H	18	0.14
(1,908)	1:36:A:LEU:HA	1:37:A:TRP:HD1	9	0.14
(1,900)	1:22:A:LEU:H	1:21:A:ALA:H	9	0.14
(1,900)	1:22:A:LEU:H	1:21:A:ALA:H	13	0.14
(1,900)	1:22:A:LEU:H	1:21:A:ALA:H	17	0.14
(1,820)	1:62:A:CYS:H	1:61:A:LEU:HA	9	0.14
(1,820)	1:62:A:CYS:H	1:61:A:LEU:HA	19	0.14
(1,808)	1:59:A:HIS:H	1:58:A:GLY:HA2	4	0.14
(1,808)	1:59:A:HIS:H	1:58:A:GLY:HA2	9	0.14
(1,790)	1:15:A:ASN:HD22	1:18:A:ARG:HB3	6	0.14
(1,777)	1:64:A:VAL:H	1:63:A:SER:H	9	0.14
(1,777)	1:64:A:VAL:H	1:63:A:SER:H	13	0.14
(1,775)	1:17:A:HIS:H	1:18:A:ARG:HD2	8	0.14
(1,768)	1:68:A:GLY:H	1:67:A:GLN:HA	5	0.14
(1,768)	1:68:A:GLY:H	1:67:A:GLN:HA	9	0.14
(1,768)	1:68:A:GLY:H	1:67:A:GLN:HA	14	0.14
(1,768)	1:68:A:GLY:H	1:67:A:GLN:HA	18	0.14
(1,708)	1:41:A:VAL:H	1:38:A:LEU:HA	13	0.14
(1,698)	1:44:A:ALA:H	1:43:A:ARG:HG3	14	0.14
(1,690)	1:80:A:ILE:H	1:79:A:THR:HB	7	0.14
(1,690)	1:80:A:ILE:H	1:79:A:THR:HB	14	0.14
(1,690)	1:80:A:ILE:H	1:79:A:THR:HB	18	0.14
(1,660)	1:27:A:PHE:H	1:26:A:THR:HA	2	0.14
(1,660)	1:27:A:PHE:H	1:26:A:THR:HA	7	0.14
(1,660)	1:27:A:PHE:H	1:26:A:THR:HA	12	0.14
(1,660)	1:27:A:PHE:H	1:26:A:THR:HA	17	0.14
(1,660)	1:27:A:PHE:H	1:26:A:THR:HA	18	0.14
(1,623)	1:19:A:ASP:H	1:20:A:LYS:H	15	0.14
(1,618)	1:16:A:SER:H	1:15:A:ASN:HA	1	0.14
(1,598)	1:43:A:ARG:H	1:42:A:SER:HB2	1	0.14
(1,598)	1:43:A:ARG:H	1:42:A:SER:HB2	3	0.14
(1,598)	1:43:A:ARG:H	1:42:A:SER:HB2	5	0.14
(1,598)	1:43:A:ARG:H	1:42:A:SER:HB2	14	0.14
(1,598)	1:43:A:ARG:H	1:42:A:SER:HB2	17	0.14
(1,596)	1:43:A:ARG:H	1:42:A:SER:HA	10	0.14
(1,571)	1:63:A:SER:H	1:64:A:VAL:H	9	0.14
(1,571)	1:63:A:SER:H	1:64:A:VAL:H	13	0.14
(1,569)	1:63:A:SER:H	1:62:A:CYS:HB2	2	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,524)	1:78:A:PRO:HD3	1:77:A:VAL:HB	3	0.14
(1,519)	1:67:A:GLN:HA	1:68:A:GLY:H	5	0.14
(1,519)	1:67:A:GLN:HA	1:68:A:GLY:H	9	0.14
(1,519)	1:67:A:GLN:HA	1:68:A:GLY:H	14	0.14
(1,519)	1:67:A:GLN:HA	1:68:A:GLY:H	18	0.14
(1,504)	1:62:A:CYS:HA	1:24:A:PHE:HA	1	0.14
(1,458)	1:22:A:LEU:HB3	1:23:A:HIS:H	1	0.14
(1,458)	1:22:A:LEU:HB3	1:23:A:HIS:H	8	0.14
(1,418)	1:28:A:PRO:HD3	1:37:A:TRP:HZ3	1	0.14
(1,418)	1:28:A:PRO:HD3	1:37:A:TRP:HZ3	10	0.14
(1,418)	1:28:A:PRO:HD3	1:37:A:TRP:HZ3	18	0.14
(1,417)	1:15:A:ASN:HA	1:16:A:SER:H	1	0.14
(1,387)	1:28:A:PRO:HD2	1:34:A:ARG:HB2	16	0.14
(1,359)	1:78:A:PRO:HB3	1:81:A:PHE:HZ	17	0.14
(1,359)	1:78:A:PRO:HB3	1:81:A:PHE:HZ	19	0.14
(1,340)	1:68:A:GLY:HA3	1:69:A:GLY:H	2	0.14
(1,340)	1:68:A:GLY:HA3	1:69:A:GLY:H	3	0.14
(1,340)	1:68:A:GLY:HA3	1:69:A:GLY:H	7	0.14
(1,340)	1:68:A:GLY:HA3	1:69:A:GLY:H	17	0.14
(1,295)	1:38:A:LEU:HB2	1:35:A:ARG:HA	16	0.14
(1,294)	1:38:A:LEU:HB2	1:39:A:LYS:H	4	0.14
(1,293)	1:45:A:GLY:HA2	1:46:A:VAL:H	15	0.14
(1,283)	1:28:A:PRO:HB2	1:33:A:LEU:HG	7	0.14
(1,255)	1:28:A:PRO:HB3	1:33:A:LEU:HG	4	0.14
(1,244)	1:22:A:LEU:HD11	1:14:A:ASN:HD22	11	0.14
(1,244)	1:22:A:LEU:HD12	1:14:A:ASN:HD22	11	0.14
(1,244)	1:22:A:LEU:HD13	1:14:A:ASN:HD22	11	0.14
(1,236)	1:61:A:LEU:HD11	1:37:A:TRP:HH2	12	0.14
(1,236)	1:61:A:LEU:HD12	1:37:A:TRP:HH2	12	0.14
(1,236)	1:61:A:LEU:HD13	1:37:A:TRP:HH2	12	0.14
(1,236)	1:61:A:LEU:HD11	1:37:A:TRP:HH2	17	0.14
(1,236)	1:61:A:LEU:HD12	1:37:A:TRP:HH2	17	0.14
(1,236)	1:61:A:LEU:HD13	1:37:A:TRP:HH2	17	0.14
(1,234)	1:61:A:LEU:HD11	1:65:A:HIS:HD2	12	0.14
(1,234)	1:61:A:LEU:HD12	1:65:A:HIS:HD2	12	0.14
(1,234)	1:61:A:LEU:HD13	1:65:A:HIS:HD2	12	0.14
(1,234)	1:61:A:LEU:HD11	1:65:A:HIS:HD2	16	0.14
(1,234)	1:61:A:LEU:HD12	1:65:A:HIS:HD2	16	0.14
(1,234)	1:61:A:LEU:HD13	1:65:A:HIS:HD2	16	0.14
(1,218)	1:7:A:CYS:HB3	1:62:A:CYS:HB2	10	0.14
(1,218)	1:7:A:CYS:HB3	1:62:A:CYS:HB2	12	0.14
(1,144)	1:62:A:CYS:HB2	1:63:A:SER:H	2	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,142)	1:62:A:CYS:HB2	1:7:A:CYS:HB3	10	0.14
(1,142)	1:62:A:CYS:HB2	1:7:A:CYS:HB3	12	0.14
(1,122)	1:36:A:LEU:HA	1:37:A:TRP:HD1	9	0.14
(1,114)	1:61:A:LEU:HD21	1:37:A:TRP:HH2	17	0.14
(1,114)	1:61:A:LEU:HD22	1:37:A:TRP:HH2	17	0.14
(1,114)	1:61:A:LEU:HD23	1:37:A:TRP:HH2	17	0.14
(1,113)	1:61:A:LEU:HD21	1:81:A:PHE:HD1	4	0.14
(1,113)	1:61:A:LEU:HD21	1:81:A:PHE:HD2	4	0.14
(1,113)	1:61:A:LEU:HD22	1:81:A:PHE:HD1	4	0.14
(1,113)	1:61:A:LEU:HD22	1:81:A:PHE:HD2	4	0.14
(1,113)	1:61:A:LEU:HD23	1:81:A:PHE:HD1	4	0.14
(1,113)	1:61:A:LEU:HD23	1:81:A:PHE:HD2	4	0.14
(1,98)	1:31:A:ALA:HA	1:34:A:ARG:H	1	0.14
(1,98)	1:31:A:ALA:HA	1:34:A:ARG:H	8	0.14
(1,29)	1:41:A:VAL:HG11	1:38:A:LEU:HA	3	0.14
(1,29)	1:41:A:VAL:HG12	1:38:A:LEU:HA	3	0.14
(1,29)	1:41:A:VAL:HG13	1:38:A:LEU:HA	3	0.14
(1,8)	1:71:A:LYS:HA	1:72:A:THR:HG21	11	0.14
(1,8)	1:71:A:LYS:HA	1:72:A:THR:HG22	11	0.14
(1,8)	1:71:A:LYS:HA	1:72:A:THR:HG23	11	0.14
(1,1765)	1:65:A:HIS:HD2	1:61:A:LEU:HG	17	0.13
(1,1764)	1:61:A:LEU:HG	1:65:A:HIS:HD2	17	0.13
(1,1726)	1:5:A:PHE:HB2	1:16:A:SER:HB3	4	0.13
(1,1725)	1:16:A:SER:HB3	1:5:A:PHE:HB2	4	0.13
(1,1654)	1:41:A:VAL:HG21	1:27:A:PHE:HE1	5	0.13
(1,1654)	1:41:A:VAL:HG21	1:27:A:PHE:HE2	5	0.13
(1,1654)	1:41:A:VAL:HG22	1:27:A:PHE:HE1	5	0.13
(1,1654)	1:41:A:VAL:HG22	1:27:A:PHE:HE2	5	0.13
(1,1654)	1:41:A:VAL:HG23	1:27:A:PHE:HE1	5	0.13
(1,1654)	1:41:A:VAL:HG23	1:27:A:PHE:HE2	5	0.13
(1,1653)	1:27:A:PHE:HE1	1:41:A:VAL:HG21	5	0.13
(1,1653)	1:27:A:PHE:HE1	1:41:A:VAL:HG22	5	0.13
(1,1653)	1:27:A:PHE:HE1	1:41:A:VAL:HG23	5	0.13
(1,1653)	1:27:A:PHE:HE2	1:41:A:VAL:HG21	5	0.13
(1,1653)	1:27:A:PHE:HE2	1:41:A:VAL:HG22	5	0.13
(1,1653)	1:27:A:PHE:HE2	1:41:A:VAL:HG23	5	0.13
(1,1633)	1:63:A:SER:HB2	1:13:A:TYR:HA	16	0.13
(1,1632)	1:13:A:TYR:HA	1:63:A:SER:HB2	16	0.13
(1,1612)	1:24:A:PHE:HD1	1:60:A:ARG:HB2	1	0.13
(1,1612)	1:24:A:PHE:HD2	1:60:A:ARG:HB2	1	0.13
(1,1612)	1:24:A:PHE:HD1	1:60:A:ARG:HB2	4	0.13
(1,1612)	1:24:A:PHE:HD2	1:60:A:ARG:HB2	4	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1612)	1:24:A:PHE:HD1	1:60:A:ARG:HB2	8	0.13
(1,1612)	1:24:A:PHE:HD2	1:60:A:ARG:HB2	8	0.13
(1,1611)	1:60:A:ARG:HB2	1:24:A:PHE:HD1	1	0.13
(1,1611)	1:60:A:ARG:HB2	1:24:A:PHE:HD2	1	0.13
(1,1611)	1:60:A:ARG:HB2	1:24:A:PHE:HD1	4	0.13
(1,1611)	1:60:A:ARG:HB2	1:24:A:PHE:HD2	4	0.13
(1,1611)	1:60:A:ARG:HB2	1:24:A:PHE:HD1	8	0.13
(1,1611)	1:60:A:ARG:HB2	1:24:A:PHE:HD2	8	0.13
(1,1550)	1:27:A:PHE:HE1	1:38:A:LEU:HA	14	0.13
(1,1550)	1:27:A:PHE:HE2	1:38:A:LEU:HA	14	0.13
(1,1550)	1:27:A:PHE:HE1	1:38:A:LEU:HA	16	0.13
(1,1550)	1:27:A:PHE:HE2	1:38:A:LEU:HA	16	0.13
(1,1518)	1:58:A:GLY:HA2	1:59:A:HIS:H	10	0.13
(1,1502)	1:41:A:VAL:H	1:38:A:LEU:HA	18	0.13
(1,1488)	1:15:A:ASN:H	1:14:A:ASN:HA	14	0.13
(1,1481)	1:63:A:SER:HA	1:66:A:PHE:HE1	7	0.13
(1,1481)	1:63:A:SER:HA	1:66:A:PHE:HE2	7	0.13
(1,1462)	1:39:A:LYS:HB2	1:40:A:ASN:H	10	0.13
(1,1439)	1:66:A:PHE:HA	1:67:A:GLN:H	7	0.13
(1,1439)	1:66:A:PHE:HA	1:67:A:GLN:H	15	0.13
(1,1429)	1:65:A:HIS:HA	1:80:A:ILE:H	15	0.13
(1,1428)	1:65:A:HIS:HA	1:80:A:ILE:HG13	6	0.13
(1,1411)	1:40:A:ASN:H	1:39:A:LYS:HB2	10	0.13
(1,1378)	1:15:A:ASN:HA	1:16:A:SER:H	13	0.13
(1,1378)	1:15:A:ASN:HA	1:16:A:SER:H	16	0.13
(1,1325)	1:19:A:ASP:H	1:18:A:ARG:HB2	15	0.13
(1,1321)	1:16:A:SER:H	1:15:A:ASN:HA	13	0.13
(1,1321)	1:16:A:SER:H	1:15:A:ASN:HA	16	0.13
(1,1320)	1:16:A:SER:H	1:5:A:PHE:H	1	0.13
(1,1288)	1:81:A:PHE:HZ	1:78:A:PRO:HB3	2	0.13
(1,1288)	1:81:A:PHE:HZ	1:78:A:PRO:HB3	3	0.13
(1,1288)	1:81:A:PHE:HZ	1:78:A:PRO:HB3	11	0.13
(1,1288)	1:81:A:PHE:HZ	1:78:A:PRO:HB3	18	0.13
(1,1265)	1:5:A:PHE:H	1:16:A:SER:H	1	0.13
(1,1241)	1:62:A:CYS:HA	1:24:A:PHE:HA	4	0.13
(1,1221)	1:63:A:SER:H	1:64:A:VAL:H	6	0.13
(1,1221)	1:63:A:SER:H	1:64:A:VAL:H	11	0.13
(1,1221)	1:63:A:SER:H	1:64:A:VAL:H	15	0.13
(1,1216)	1:35:A:ARG:HA	1:38:A:LEU:HB3	2	0.13
(1,1216)	1:35:A:ARG:HA	1:38:A:LEU:HB3	18	0.13
(1,1207)	1:60:A:ARG:HA	1:61:A:LEU:H	6	0.13
(1,1207)	1:60:A:ARG:HA	1:61:A:LEU:H	12	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1207)	1:60:A:ARG:HA	1:61:A:LEU:H	15	0.13
(1,1179)	1:23:A:HIS:H	1:22:A:LEU:HB3	6	0.13
(1,1179)	1:23:A:HIS:H	1:22:A:LEU:HB3	7	0.13
(1,1179)	1:23:A:HIS:H	1:22:A:LEU:HB3	11	0.13
(1,1179)	1:23:A:HIS:H	1:22:A:LEU:HB3	14	0.13
(1,1177)	1:21:A:ALA:H	1:22:A:LEU:H	3	0.13
(1,1177)	1:21:A:ALA:H	1:22:A:LEU:H	5	0.13
(1,1177)	1:21:A:ALA:H	1:22:A:LEU:H	19	0.13
(1,1157)	1:62:A:CYS:H	1:61:A:LEU:HA	18	0.13
(1,1105)	1:61:A:LEU:HA	1:62:A:CYS:H	18	0.13
(1,1101)	1:14:A:ASN:HD22	1:64:A:VAL:HG21	2	0.13
(1,1101)	1:14:A:ASN:HD22	1:64:A:VAL:HG22	2	0.13
(1,1101)	1:14:A:ASN:HD22	1:64:A:VAL:HG23	2	0.13
(1,1101)	1:14:A:ASN:HD22	1:64:A:VAL:HG21	5	0.13
(1,1101)	1:14:A:ASN:HD22	1:64:A:VAL:HG22	5	0.13
(1,1101)	1:14:A:ASN:HD22	1:64:A:VAL:HG23	5	0.13
(1,1101)	1:14:A:ASN:HD22	1:64:A:VAL:HG21	18	0.13
(1,1101)	1:14:A:ASN:HD22	1:64:A:VAL:HG22	18	0.13
(1,1101)	1:14:A:ASN:HD22	1:64:A:VAL:HG23	18	0.13
(1,1084)	1:37:A:TRP:HE1	1:78:A:PRO:HD2	6	0.13
(1,1084)	1:37:A:TRP:HE1	1:78:A:PRO:HD2	14	0.13
(1,998)	1:22:A:LEU:HB3	1:23:A:HIS:H	6	0.13
(1,998)	1:22:A:LEU:HB3	1:23:A:HIS:H	7	0.13
(1,998)	1:22:A:LEU:HB3	1:23:A:HIS:H	11	0.13
(1,998)	1:22:A:LEU:HB3	1:23:A:HIS:H	14	0.13
(1,989)	1:64:A:VAL:H	1:63:A:SER:H	6	0.13
(1,989)	1:64:A:VAL:H	1:63:A:SER:H	11	0.13
(1,989)	1:64:A:VAL:H	1:63:A:SER:H	15	0.13
(1,975)	1:68:A:GLY:H	1:67:A:GLN:HA	11	0.13
(1,975)	1:68:A:GLY:H	1:67:A:GLN:HA	19	0.13
(1,946)	1:67:A:GLN:HA	1:68:A:GLY:H	11	0.13
(1,946)	1:67:A:GLN:HA	1:68:A:GLY:H	19	0.13
(1,908)	1:36:A:LEU:HA	1:37:A:TRP:HD1	15	0.13
(1,908)	1:36:A:LEU:HA	1:37:A:TRP:HD1	19	0.13
(1,900)	1:22:A:LEU:H	1:21:A:ALA:H	3	0.13
(1,900)	1:22:A:LEU:H	1:21:A:ALA:H	5	0.13
(1,900)	1:22:A:LEU:H	1:21:A:ALA:H	19	0.13
(1,894)	1:77:A:VAL:HG21	1:37:A:TRP:HD1	6	0.13
(1,894)	1:77:A:VAL:HG22	1:37:A:TRP:HD1	6	0.13
(1,894)	1:77:A:VAL:HG23	1:37:A:TRP:HD1	6	0.13
(1,873)	1:67:A:GLN:H	1:66:A:PHE:HA	7	0.13
(1,873)	1:67:A:GLN:H	1:66:A:PHE:HA	15	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,820)	1:62:A:CYS:H	1:61:A:LEU:HA	18	0.13
(1,808)	1:59:A:HIS:H	1:58:A:GLY:HA2	10	0.13
(1,777)	1:64:A:VAL:H	1:63:A:SER:H	6	0.13
(1,777)	1:64:A:VAL:H	1:63:A:SER:H	11	0.13
(1,777)	1:64:A:VAL:H	1:63:A:SER:H	15	0.13
(1,768)	1:68:A:GLY:H	1:67:A:GLN:HA	11	0.13
(1,768)	1:68:A:GLY:H	1:67:A:GLN:HA	19	0.13
(1,747)	1:22:A:LEU:H	1:19:A:ASP:HA	8	0.13
(1,733)	1:72:A:THR:H	1:71:A:LYS:HG2	11	0.13
(1,733)	1:72:A:THR:H	1:71:A:LYS:HG2	19	0.13
(1,726)	1:38:A:LEU:H	1:37:A:TRP:HA	5	0.13
(1,726)	1:38:A:LEU:H	1:37:A:TRP:HA	13	0.13
(1,726)	1:38:A:LEU:H	1:37:A:TRP:HA	19	0.13
(1,719)	1:67:A:GLN:H	1:66:A:PHE:HA	7	0.13
(1,719)	1:67:A:GLN:H	1:66:A:PHE:HA	15	0.13
(1,708)	1:41:A:VAL:H	1:38:A:LEU:HA	18	0.13
(1,687)	1:80:A:ILE:H	1:65:A:HIS:HA	15	0.13
(1,684)	1:80:A:ILE:H	1:81:A:PHE:H	1	0.13
(1,684)	1:80:A:ILE:H	1:81:A:PHE:H	4	0.13
(1,684)	1:80:A:ILE:H	1:81:A:PHE:H	8	0.13
(1,684)	1:80:A:ILE:H	1:81:A:PHE:H	14	0.13
(1,683)	1:80:A:ILE:H	1:65:A:HIS:HB2	2	0.13
(1,660)	1:27:A:PHE:H	1:26:A:THR:HA	6	0.13
(1,660)	1:27:A:PHE:H	1:26:A:THR:HA	15	0.13
(1,618)	1:16:A:SER:H	1:15:A:ASN:HA	13	0.13
(1,618)	1:16:A:SER:H	1:15:A:ASN:HA	16	0.13
(1,591)	1:5:A:PHE:H	1:16:A:SER:H	1	0.13
(1,571)	1:63:A:SER:H	1:64:A:VAL:H	6	0.13
(1,571)	1:63:A:SER:H	1:64:A:VAL:H	11	0.13
(1,571)	1:63:A:SER:H	1:64:A:VAL:H	15	0.13
(1,559)	1:6:A:THR:HA	1:15:A:ASN:HA	2	0.13
(1,556)	1:6:A:THR:HA	1:15:A:ASN:HA	2	0.13
(1,524)	1:78:A:PRO:HD3	1:77:A:VAL:HB	16	0.13
(1,519)	1:67:A:GLN:HA	1:68:A:GLY:H	11	0.13
(1,519)	1:67:A:GLN:HA	1:68:A:GLY:H	19	0.13
(1,504)	1:62:A:CYS:HA	1:24:A:PHE:HA	4	0.13
(1,489)	1:39:A:LYS:HB3	1:36:A:LEU:HA	3	0.13
(1,458)	1:22:A:LEU:HB3	1:23:A:HIS:H	6	0.13
(1,458)	1:22:A:LEU:HB3	1:23:A:HIS:H	7	0.13
(1,458)	1:22:A:LEU:HB3	1:23:A:HIS:H	11	0.13
(1,458)	1:22:A:LEU:HB3	1:23:A:HIS:H	14	0.13
(1,418)	1:28:A:PRO:HD3	1:37:A:TRP:HZ3	17	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,417)	1:15:A:ASN:HA	1:16:A:SER:H	13	0.13
(1,417)	1:15:A:ASN:HA	1:16:A:SER:H	16	0.13
(1,416)	1:15:A:ASN:HA	1:6:A:THR:HA	2	0.13
(1,406)	1:63:A:SER:HB3	1:23:A:HIS:H	18	0.13
(1,387)	1:28:A:PRO:HD2	1:34:A:ARG:HB2	1	0.13
(1,387)	1:28:A:PRO:HD2	1:34:A:ARG:HB2	7	0.13
(1,379)	1:39:A:LYS:HB2	1:40:A:ASN:H	10	0.13
(1,359)	1:78:A:PRO:HB3	1:81:A:PHE:HZ	2	0.13
(1,359)	1:78:A:PRO:HB3	1:81:A:PHE:HZ	3	0.13
(1,359)	1:78:A:PRO:HB3	1:81:A:PHE:HZ	11	0.13
(1,359)	1:78:A:PRO:HB3	1:81:A:PHE:HZ	18	0.13
(1,340)	1:68:A:GLY:HA3	1:69:A:GLY:H	1	0.13
(1,340)	1:68:A:GLY:HA3	1:69:A:GLY:H	5	0.13
(1,340)	1:68:A:GLY:HA3	1:69:A:GLY:H	9	0.13
(1,340)	1:68:A:GLY:HA3	1:69:A:GLY:H	10	0.13
(1,340)	1:68:A:GLY:HA3	1:69:A:GLY:H	18	0.13
(1,340)	1:68:A:GLY:HA3	1:69:A:GLY:H	19	0.13
(1,332)	1:16:A:SER:HB3	1:5:A:PHE:HD1	2	0.13
(1,332)	1:16:A:SER:HB3	1:5:A:PHE:HD2	2	0.13
(1,305)	1:60:A:ARG:HB2	1:61:A:LEU:H	2	0.13
(1,296)	1:16:A:SER:HB2	1:5:A:PHE:H	8	0.13
(1,295)	1:38:A:LEU:HB2	1:35:A:ARG:HA	17	0.13
(1,283)	1:28:A:PRO:HB2	1:33:A:LEU:HG	19	0.13
(1,258)	1:6:A:THR:HA	1:15:A:ASN:HA	2	0.13
(1,255)	1:28:A:PRO:HB3	1:33:A:LEU:HG	5	0.13
(1,255)	1:28:A:PRO:HB3	1:33:A:LEU:HG	11	0.13
(1,244)	1:22:A:LEU:HD11	1:14:A:ASN:HD22	14	0.13
(1,244)	1:22:A:LEU:HD12	1:14:A:ASN:HD22	14	0.13
(1,244)	1:22:A:LEU:HD13	1:14:A:ASN:HD22	14	0.13
(1,178)	1:41:A:VAL:HG21	1:10:A:PRO:HD2	7	0.13
(1,178)	1:41:A:VAL:HG22	1:10:A:PRO:HD2	7	0.13
(1,178)	1:41:A:VAL:HG23	1:10:A:PRO:HD2	7	0.13
(1,147)	1:10:A:PRO:HD2	1:41:A:VAL:HG21	7	0.13
(1,147)	1:10:A:PRO:HD2	1:41:A:VAL:HG22	7	0.13
(1,147)	1:10:A:PRO:HD2	1:41:A:VAL:HG23	7	0.13
(1,133)	1:34:A:ARG:HA	1:28:A:PRO:HG2	12	0.13
(1,122)	1:36:A:LEU:HA	1:37:A:TRP:HD1	15	0.13
(1,122)	1:36:A:LEU:HA	1:37:A:TRP:HD1	19	0.13
(1,113)	1:61:A:LEU:HD21	1:81:A:PHE:HD1	8	0.13
(1,113)	1:61:A:LEU:HD21	1:81:A:PHE:HD2	8	0.13
(1,113)	1:61:A:LEU:HD22	1:81:A:PHE:HD1	8	0.13
(1,113)	1:61:A:LEU:HD22	1:81:A:PHE:HD2	8	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,113)	1:61:A:LEU:HD23	1:81:A:PHE:HD1	8	0.13
(1,113)	1:61:A:LEU:HD23	1:81:A:PHE:HD2	8	0.13
(1,98)	1:31:A:ALA:HA	1:34:A:ARG:H	10	0.13
(1,98)	1:31:A:ALA:HA	1:34:A:ARG:H	14	0.13
(1,98)	1:31:A:ALA:HA	1:34:A:ARG:H	15	0.13
(1,98)	1:31:A:ALA:HA	1:34:A:ARG:H	16	0.13
(1,98)	1:31:A:ALA:HA	1:34:A:ARG:H	19	0.13
(1,65)	1:46:A:VAL:HG21	1:47:A:SER:HB3	3	0.13
(1,65)	1:46:A:VAL:HG22	1:47:A:SER:HB3	3	0.13
(1,65)	1:46:A:VAL:HG23	1:47:A:SER:HB3	3	0.13
(1,29)	1:41:A:VAL:HG11	1:38:A:LEU:HA	11	0.13
(1,29)	1:41:A:VAL:HG12	1:38:A:LEU:HA	11	0.13
(1,29)	1:41:A:VAL:HG13	1:38:A:LEU:HA	11	0.13
(1,29)	1:41:A:VAL:HG11	1:38:A:LEU:HA	15	0.13
(1,29)	1:41:A:VAL:HG12	1:38:A:LEU:HA	15	0.13
(1,29)	1:41:A:VAL:HG13	1:38:A:LEU:HA	15	0.13
(1,29)	1:41:A:VAL:HG11	1:38:A:LEU:HA	16	0.13
(1,29)	1:41:A:VAL:HG12	1:38:A:LEU:HA	16	0.13
(1,29)	1:41:A:VAL:HG13	1:38:A:LEU:HA	16	0.13
(1,1765)	1:65:A:HIS:HD2	1:61:A:LEU:HG	15	0.12
(1,1765)	1:65:A:HIS:HD2	1:61:A:LEU:HG	18	0.12
(1,1764)	1:61:A:LEU:HG	1:65:A:HIS:HD2	15	0.12
(1,1764)	1:61:A:LEU:HG	1:65:A:HIS:HD2	18	0.12
(1,1758)	1:75:A:VAL:HB	1:66:A:PHE:HD1	13	0.12
(1,1758)	1:75:A:VAL:HB	1:66:A:PHE:HD2	13	0.12
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG21	1	0.12
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG22	1	0.12
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG23	1	0.12
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG21	8	0.12
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG22	8	0.12
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG23	8	0.12
(1,1695)	1:14:A:ASN:HB2	1:62:A:CYS:HB3	2	0.12
(1,1695)	1:14:A:ASN:HB2	1:62:A:CYS:HB3	14	0.12
(1,1695)	1:14:A:ASN:HB2	1:62:A:CYS:HB3	15	0.12
(1,1695)	1:14:A:ASN:HB2	1:62:A:CYS:HB3	18	0.12
(1,1694)	1:62:A:CYS:HB3	1:14:A:ASN:HB2	2	0.12
(1,1694)	1:62:A:CYS:HB3	1:14:A:ASN:HB2	14	0.12
(1,1694)	1:62:A:CYS:HB3	1:14:A:ASN:HB2	15	0.12
(1,1694)	1:62:A:CYS:HB3	1:14:A:ASN:HB2	18	0.12
(1,1633)	1:63:A:SER:HB2	1:13:A:TYR:HA	1	0.12
(1,1633)	1:63:A:SER:HB2	1:13:A:TYR:HA	3	0.12
(1,1633)	1:63:A:SER:HB2	1:13:A:TYR:HA	4	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1633)	1:63:A:SER:HB2	1:13:A:TYR:HA	6	0.12
(1,1632)	1:13:A:TYR:HA	1:63:A:SER:HB2	1	0.12
(1,1632)	1:13:A:TYR:HA	1:63:A:SER:HB2	3	0.12
(1,1632)	1:13:A:TYR:HA	1:63:A:SER:HB2	4	0.12
(1,1632)	1:13:A:TYR:HA	1:63:A:SER:HB2	6	0.12
(1,1622)	1:71:A:LYS:HB3	1:25:A:TYR:HE1	17	0.12
(1,1622)	1:71:A:LYS:HB3	1:25:A:TYR:HE2	17	0.12
(1,1612)	1:24:A:PHE:HD1	1:60:A:ARG:HB2	2	0.12
(1,1612)	1:24:A:PHE:HD2	1:60:A:ARG:HB2	2	0.12
(1,1611)	1:60:A:ARG:HB2	1:24:A:PHE:HD1	2	0.12
(1,1611)	1:60:A:ARG:HB2	1:24:A:PHE:HD2	2	0.12
(1,1589)	1:65:A:HIS:HE1	1:81:A:PHE:HD1	16	0.12
(1,1589)	1:65:A:HIS:HE1	1:81:A:PHE:HD2	16	0.12
(1,1550)	1:27:A:PHE:HE1	1:38:A:LEU:HA	19	0.12
(1,1550)	1:27:A:PHE:HE2	1:38:A:LEU:HA	19	0.12
(1,1529)	1:65:A:HIS:HD2	1:62:A:CYS:H	7	0.12
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD11	3	0.12
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD12	3	0.12
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD13	3	0.12
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD11	8	0.12
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD12	8	0.12
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD13	8	0.12
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD11	9	0.12
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD12	9	0.12
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD13	9	0.12
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD11	13	0.12
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD12	13	0.12
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD13	13	0.12
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD11	15	0.12
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD12	15	0.12
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD13	15	0.12
(1,1524)	1:16:A:SER:HA	1:24:A:PHE:HD1	7	0.12
(1,1524)	1:16:A:SER:HA	1:24:A:PHE:HD2	7	0.12
(1,1518)	1:58:A:GLY:HA2	1:59:A:HIS:H	2	0.12
(1,1518)	1:58:A:GLY:HA2	1:59:A:HIS:H	5	0.12
(1,1502)	1:41:A:VAL:H	1:38:A:LEU:HA	19	0.12
(1,1488)	1:15:A:ASN:H	1:14:A:ASN:HA	1	0.12
(1,1439)	1:66:A:PHE:HA	1:67:A:GLN:H	11	0.12
(1,1428)	1:65:A:HIS:HA	1:80:A:ILE:HG13	18	0.12
(1,1378)	1:15:A:ASN:HA	1:16:A:SER:H	12	0.12
(1,1378)	1:15:A:ASN:HA	1:16:A:SER:H	15	0.12
(1,1336)	1:36:A:LEU:H	1:35:A:ARG:HB3	8	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1325)	1:19:A:ASP:H	1:18:A:ARG:HB2	18	0.12
(1,1321)	1:16:A:SER:H	1:15:A:ASN:HA	12	0.12
(1,1321)	1:16:A:SER:H	1:15:A:ASN:HA	15	0.12
(1,1298)	1:27:A:PHE:HE1	1:37:A:TRP:HE3	2	0.12
(1,1298)	1:27:A:PHE:HE2	1:37:A:TRP:HE3	2	0.12
(1,1289)	1:40:A:ASN:HB2	1:81:A:PHE:HE1	14	0.12
(1,1289)	1:40:A:ASN:HB2	1:81:A:PHE:HE2	14	0.12
(1,1288)	1:81:A:PHE:HZ	1:78:A:PRO:HB3	10	0.12
(1,1266)	1:43:A:ARG:H	1:42:A:SER:H	14	0.12
(1,1260)	1:33:A:LEU:H	1:32:A:GLU:HB3	6	0.12
(1,1260)	1:33:A:LEU:H	1:32:A:GLU:HB3	11	0.12
(1,1245)	1:35:A:ARG:HB3	1:36:A:LEU:H	8	0.12
(1,1221)	1:63:A:SER:H	1:64:A:VAL:H	2	0.12
(1,1221)	1:63:A:SER:H	1:64:A:VAL:H	12	0.12
(1,1221)	1:63:A:SER:H	1:64:A:VAL:H	17	0.12
(1,1218)	1:32:A:GLU:HB3	1:33:A:LEU:H	6	0.12
(1,1218)	1:32:A:GLU:HB3	1:33:A:LEU:H	11	0.12
(1,1216)	1:35:A:ARG:HA	1:38:A:LEU:HB3	3	0.12
(1,1216)	1:35:A:ARG:HA	1:38:A:LEU:HB3	8	0.12
(1,1213)	1:46:A:VAL:HA	1:47:A:SER:H	12	0.12
(1,1212)	1:78:A:PRO:HD3	1:66:A:PHE:HZ	19	0.12
(1,1207)	1:60:A:ARG:HA	1:61:A:LEU:H	4	0.12
(1,1179)	1:23:A:HIS:H	1:22:A:LEU:HB3	4	0.12
(1,1158)	1:62:A:CYS:H	1:65:A:HIS:HD2	7	0.12
(1,1157)	1:62:A:CYS:H	1:61:A:LEU:HA	2	0.12
(1,1157)	1:62:A:CYS:H	1:61:A:LEU:HA	5	0.12
(1,1157)	1:62:A:CYS:H	1:61:A:LEU:HA	7	0.12
(1,1157)	1:62:A:CYS:H	1:61:A:LEU:HA	11	0.12
(1,1157)	1:62:A:CYS:H	1:61:A:LEU:HA	13	0.12
(1,1157)	1:62:A:CYS:H	1:61:A:LEU:HA	15	0.12
(1,1157)	1:62:A:CYS:H	1:61:A:LEU:HA	16	0.12
(1,1157)	1:62:A:CYS:H	1:61:A:LEU:HA	17	0.12
(1,1105)	1:61:A:LEU:HA	1:62:A:CYS:H	2	0.12
(1,1105)	1:61:A:LEU:HA	1:62:A:CYS:H	5	0.12
(1,1105)	1:61:A:LEU:HA	1:62:A:CYS:H	7	0.12
(1,1105)	1:61:A:LEU:HA	1:62:A:CYS:H	11	0.12
(1,1105)	1:61:A:LEU:HA	1:62:A:CYS:H	13	0.12
(1,1105)	1:61:A:LEU:HA	1:62:A:CYS:H	15	0.12
(1,1105)	1:61:A:LEU:HA	1:62:A:CYS:H	16	0.12
(1,1105)	1:61:A:LEU:HA	1:62:A:CYS:H	17	0.12
(1,1101)	1:14:A:ASN:HD22	1:64:A:VAL:HG21	9	0.12
(1,1101)	1:14:A:ASN:HD22	1:64:A:VAL:HG22	9	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1101)	1:14:A:ASN:HD22	1:64:A:VAL:HG23	9	0.12
(1,1092)	1:41:A:VAL:HG11	1:81:A:PHE:HE1	4	0.12
(1,1092)	1:41:A:VAL:HG11	1:81:A:PHE:HE2	4	0.12
(1,1092)	1:41:A:VAL:HG12	1:81:A:PHE:HE1	4	0.12
(1,1092)	1:41:A:VAL:HG12	1:81:A:PHE:HE2	4	0.12
(1,1092)	1:41:A:VAL:HG13	1:81:A:PHE:HE1	4	0.12
(1,1092)	1:41:A:VAL:HG13	1:81:A:PHE:HE2	4	0.12
(1,1086)	1:37:A:TRP:HE1	1:77:A:VAL:HA	7	0.12
(1,1084)	1:37:A:TRP:HE1	1:78:A:PRO:HD2	8	0.12
(1,1084)	1:37:A:TRP:HE1	1:78:A:PRO:HD2	11	0.12
(1,1078)	1:61:A:LEU:HD21	1:37:A:TRP:HH2	5	0.12
(1,1078)	1:61:A:LEU:HD22	1:37:A:TRP:HH2	5	0.12
(1,1078)	1:61:A:LEU:HD23	1:37:A:TRP:HH2	5	0.12
(1,1078)	1:61:A:LEU:HD21	1:37:A:TRP:HH2	15	0.12
(1,1078)	1:61:A:LEU:HD22	1:37:A:TRP:HH2	15	0.12
(1,1078)	1:61:A:LEU:HD23	1:37:A:TRP:HH2	15	0.12
(1,998)	1:22:A:LEU:HB3	1:23:A:HIS:H	4	0.12
(1,989)	1:64:A:VAL:H	1:63:A:SER:H	2	0.12
(1,989)	1:64:A:VAL:H	1:63:A:SER:H	12	0.12
(1,989)	1:64:A:VAL:H	1:63:A:SER:H	17	0.12
(1,975)	1:68:A:GLY:H	1:67:A:GLN:HA	2	0.12
(1,975)	1:68:A:GLY:H	1:67:A:GLN:HA	4	0.12
(1,975)	1:68:A:GLY:H	1:67:A:GLN:HA	6	0.12
(1,975)	1:68:A:GLY:H	1:67:A:GLN:HA	12	0.12
(1,975)	1:68:A:GLY:H	1:67:A:GLN:HA	17	0.12
(1,951)	1:24:A:PHE:HE1	1:62:A:CYS:HB2	1	0.12
(1,951)	1:24:A:PHE:HE2	1:62:A:CYS:HB2	1	0.12
(1,946)	1:67:A:GLN:HA	1:68:A:GLY:H	2	0.12
(1,946)	1:67:A:GLN:HA	1:68:A:GLY:H	4	0.12
(1,946)	1:67:A:GLN:HA	1:68:A:GLY:H	6	0.12
(1,946)	1:67:A:GLN:HA	1:68:A:GLY:H	12	0.12
(1,946)	1:67:A:GLN:HA	1:68:A:GLY:H	17	0.12
(1,908)	1:36:A:LEU:HA	1:37:A:TRP:HD1	3	0.12
(1,908)	1:36:A:LEU:HA	1:37:A:TRP:HD1	16	0.12
(1,894)	1:77:A:VAL:HG21	1:37:A:TRP:HD1	10	0.12
(1,894)	1:77:A:VAL:HG22	1:37:A:TRP:HD1	10	0.12
(1,894)	1:77:A:VAL:HG23	1:37:A:TRP:HD1	10	0.12
(1,881)	1:38:A:LEU:H	1:36:A:LEU:H	13	0.12
(1,873)	1:67:A:GLN:H	1:66:A:PHE:HA	11	0.12
(1,820)	1:62:A:CYS:H	1:61:A:LEU:HA	2	0.12
(1,820)	1:62:A:CYS:H	1:61:A:LEU:HA	5	0.12
(1,820)	1:62:A:CYS:H	1:61:A:LEU:HA	7	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,820)	1:62:A:CYS:H	1:61:A:LEU:HA	11	0.12
(1,820)	1:62:A:CYS:H	1:61:A:LEU:HA	13	0.12
(1,820)	1:62:A:CYS:H	1:61:A:LEU:HA	15	0.12
(1,820)	1:62:A:CYS:H	1:61:A:LEU:HA	16	0.12
(1,820)	1:62:A:CYS:H	1:61:A:LEU:HA	17	0.12
(1,808)	1:59:A:HIS:H	1:58:A:GLY:HA2	2	0.12
(1,808)	1:59:A:HIS:H	1:58:A:GLY:HA2	5	0.12
(1,777)	1:64:A:VAL:H	1:63:A:SER:H	2	0.12
(1,777)	1:64:A:VAL:H	1:63:A:SER:H	12	0.12
(1,777)	1:64:A:VAL:H	1:63:A:SER:H	17	0.12
(1,768)	1:68:A:GLY:H	1:67:A:GLN:HA	2	0.12
(1,768)	1:68:A:GLY:H	1:67:A:GLN:HA	4	0.12
(1,768)	1:68:A:GLY:H	1:67:A:GLN:HA	6	0.12
(1,768)	1:68:A:GLY:H	1:67:A:GLN:HA	12	0.12
(1,768)	1:68:A:GLY:H	1:67:A:GLN:HA	17	0.12
(1,736)	1:47:A:SER:H	1:46:A:VAL:HA	12	0.12
(1,726)	1:38:A:LEU:H	1:37:A:TRP:HA	6	0.12
(1,726)	1:38:A:LEU:H	1:37:A:TRP:HA	7	0.12
(1,726)	1:38:A:LEU:H	1:37:A:TRP:HA	9	0.12
(1,726)	1:38:A:LEU:H	1:37:A:TRP:HA	11	0.12
(1,726)	1:38:A:LEU:H	1:37:A:TRP:HA	12	0.12
(1,726)	1:38:A:LEU:H	1:37:A:TRP:HA	14	0.12
(1,726)	1:38:A:LEU:H	1:37:A:TRP:HA	15	0.12
(1,726)	1:38:A:LEU:H	1:37:A:TRP:HA	16	0.12
(1,719)	1:67:A:GLN:H	1:66:A:PHE:HA	11	0.12
(1,716)	1:67:A:GLN:H	1:66:A:PHE:HB3	3	0.12
(1,716)	1:67:A:GLN:H	1:66:A:PHE:HB3	5	0.12
(1,711)	1:30:A:ASP:H	1:29:A:LYS:HB2	5	0.12
(1,711)	1:30:A:ASP:H	1:29:A:LYS:HB2	12	0.12
(1,711)	1:30:A:ASP:H	1:29:A:LYS:HB2	18	0.12
(1,708)	1:41:A:VAL:H	1:38:A:LEU:HA	19	0.12
(1,685)	1:80:A:ILE:H	1:65:A:HIS:HB3	13	0.12
(1,684)	1:80:A:ILE:H	1:81:A:PHE:H	16	0.12
(1,678)	1:40:A:ASN:H	1:37:A:TRP:HA	5	0.12
(1,660)	1:27:A:PHE:H	1:26:A:THR:HA	3	0.12
(1,660)	1:27:A:PHE:H	1:26:A:THR:HA	10	0.12
(1,618)	1:16:A:SER:H	1:15:A:ASN:HA	12	0.12
(1,618)	1:16:A:SER:H	1:15:A:ASN:HA	15	0.12
(1,571)	1:63:A:SER:H	1:64:A:VAL:H	2	0.12
(1,571)	1:63:A:SER:H	1:64:A:VAL:H	12	0.12
(1,571)	1:63:A:SER:H	1:64:A:VAL:H	17	0.12
(1,532)	1:75:A:VAL:HA	1:77:A:VAL:H	8	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,528)	1:78:A:PRO:HD3	1:66:A:PHE:HZ	19	0.12
(1,524)	1:78:A:PRO:HD3	1:77:A:VAL:HB	5	0.12
(1,524)	1:78:A:PRO:HD3	1:77:A:VAL:HB	14	0.12
(1,524)	1:78:A:PRO:HD3	1:77:A:VAL:HB	19	0.12
(1,519)	1:67:A:GLN:HA	1:68:A:GLY:H	2	0.12
(1,519)	1:67:A:GLN:HA	1:68:A:GLY:H	4	0.12
(1,519)	1:67:A:GLN:HA	1:68:A:GLY:H	6	0.12
(1,519)	1:67:A:GLN:HA	1:68:A:GLY:H	12	0.12
(1,519)	1:67:A:GLN:HA	1:68:A:GLY:H	17	0.12
(1,469)	1:46:A:VAL:HA	1:47:A:SER:H	12	0.12
(1,458)	1:22:A:LEU:HB3	1:23:A:HIS:H	4	0.12
(1,418)	1:28:A:PRO:HD3	1:37:A:TRP:HZ3	19	0.12
(1,417)	1:15:A:ASN:HA	1:16:A:SER:H	12	0.12
(1,417)	1:15:A:ASN:HA	1:16:A:SER:H	15	0.12
(1,387)	1:28:A:PRO:HD2	1:34:A:ARG:HB2	19	0.12
(1,359)	1:78:A:PRO:HB3	1:81:A:PHE:HZ	10	0.12
(1,340)	1:68:A:GLY:HA3	1:69:A:GLY:H	8	0.12
(1,340)	1:68:A:GLY:HA3	1:69:A:GLY:H	16	0.12
(1,305)	1:60:A:ARG:HB2	1:61:A:LEU:H	5	0.12
(1,294)	1:38:A:LEU:HB2	1:39:A:LYS:H	3	0.12
(1,294)	1:38:A:LEU:HB2	1:39:A:LYS:H	7	0.12
(1,283)	1:28:A:PRO:HB2	1:33:A:LEU:HG	6	0.12
(1,283)	1:28:A:PRO:HB2	1:33:A:LEU:HG	10	0.12
(1,255)	1:28:A:PRO:HB3	1:33:A:LEU:HG	1	0.12
(1,255)	1:28:A:PRO:HB3	1:33:A:LEU:HG	18	0.12
(1,234)	1:61:A:LEU:HD11	1:65:A:HIS:HD2	3	0.12
(1,234)	1:61:A:LEU:HD12	1:65:A:HIS:HD2	3	0.12
(1,234)	1:61:A:LEU:HD13	1:65:A:HIS:HD2	3	0.12
(1,234)	1:61:A:LEU:HD11	1:65:A:HIS:HD2	8	0.12
(1,234)	1:61:A:LEU:HD12	1:65:A:HIS:HD2	8	0.12
(1,234)	1:61:A:LEU:HD13	1:65:A:HIS:HD2	8	0.12
(1,234)	1:61:A:LEU:HD11	1:65:A:HIS:HD2	9	0.12
(1,234)	1:61:A:LEU:HD12	1:65:A:HIS:HD2	9	0.12
(1,234)	1:61:A:LEU:HD13	1:65:A:HIS:HD2	9	0.12
(1,234)	1:61:A:LEU:HD11	1:65:A:HIS:HD2	13	0.12
(1,234)	1:61:A:LEU:HD12	1:65:A:HIS:HD2	13	0.12
(1,234)	1:61:A:LEU:HD13	1:65:A:HIS:HD2	13	0.12
(1,234)	1:61:A:LEU:HD11	1:65:A:HIS:HD2	15	0.12
(1,234)	1:61:A:LEU:HD12	1:65:A:HIS:HD2	15	0.12
(1,234)	1:61:A:LEU:HD13	1:65:A:HIS:HD2	15	0.12
(1,218)	1:7:A:CYS:HB3	1:62:A:CYS:HB2	11	0.12
(1,198)	1:16:A:SER:HA	1:24:A:PHE:HD1	7	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,198)	1:16:A:SER:HA	1:24:A:PHE:HD2	7	0.12
(1,192)	1:71:A:LYS:HE2	1:70:A:ARG:H	15	0.12
(1,168)	1:45:A:GLY:HA3	1:46:A:VAL:HG11	1	0.12
(1,168)	1:45:A:GLY:HA3	1:46:A:VAL:HG12	1	0.12
(1,168)	1:45:A:GLY:HA3	1:46:A:VAL:HG13	1	0.12
(1,168)	1:45:A:GLY:HA3	1:46:A:VAL:HG11	19	0.12
(1,168)	1:45:A:GLY:HA3	1:46:A:VAL:HG12	19	0.12
(1,168)	1:45:A:GLY:HA3	1:46:A:VAL:HG13	19	0.12
(1,142)	1:62:A:CYS:HB2	1:7:A:CYS:HB3	11	0.12
(1,133)	1:34:A:ARG:HA	1:28:A:PRO:HG2	9	0.12
(1,133)	1:34:A:ARG:HA	1:28:A:PRO:HG2	13	0.12
(1,133)	1:34:A:ARG:HA	1:28:A:PRO:HG2	14	0.12
(1,133)	1:34:A:ARG:HA	1:28:A:PRO:HG2	16	0.12
(1,122)	1:36:A:LEU:HA	1:37:A:TRP:HD1	3	0.12
(1,122)	1:36:A:LEU:HA	1:37:A:TRP:HD1	16	0.12
(1,114)	1:61:A:LEU:HD21	1:37:A:TRP:HH2	5	0.12
(1,114)	1:61:A:LEU:HD22	1:37:A:TRP:HH2	5	0.12
(1,114)	1:61:A:LEU:HD23	1:37:A:TRP:HH2	5	0.12
(1,114)	1:61:A:LEU:HD21	1:37:A:TRP:HH2	15	0.12
(1,114)	1:61:A:LEU:HD22	1:37:A:TRP:HH2	15	0.12
(1,114)	1:61:A:LEU:HD23	1:37:A:TRP:HH2	15	0.12
(1,98)	1:31:A:ALA:HA	1:34:A:ARG:H	17	0.12
(1,34)	1:41:A:VAL:HG11	1:81:A:PHE:HE1	4	0.12
(1,34)	1:41:A:VAL:HG11	1:81:A:PHE:HE2	4	0.12
(1,34)	1:41:A:VAL:HG12	1:81:A:PHE:HE1	4	0.12
(1,34)	1:41:A:VAL:HG12	1:81:A:PHE:HE2	4	0.12
(1,34)	1:41:A:VAL:HG13	1:81:A:PHE:HE1	4	0.12
(1,34)	1:41:A:VAL:HG13	1:81:A:PHE:HE2	4	0.12
(1,29)	1:41:A:VAL:HG11	1:38:A:LEU:HA	9	0.12
(1,29)	1:41:A:VAL:HG12	1:38:A:LEU:HA	9	0.12
(1,29)	1:41:A:VAL:HG13	1:38:A:LEU:HA	9	0.12
(1,29)	1:41:A:VAL:HG11	1:38:A:LEU:HA	13	0.12
(1,29)	1:41:A:VAL:HG12	1:38:A:LEU:HA	13	0.12
(1,29)	1:41:A:VAL:HG13	1:38:A:LEU:HA	13	0.12
(1,1)	1:32:A:GLU:HB3	1:33:A:LEU:H	6	0.12
(1,1)	1:32:A:GLU:HB3	1:33:A:LEU:H	11	0.12
(1,1765)	1:65:A:HIS:HD2	1:61:A:LEU:HG	6	0.11
(1,1765)	1:65:A:HIS:HD2	1:61:A:LEU:HG	10	0.11
(1,1765)	1:65:A:HIS:HD2	1:61:A:LEU:HG	12	0.11
(1,1764)	1:61:A:LEU:HG	1:65:A:HIS:HD2	6	0.11
(1,1764)	1:61:A:LEU:HG	1:65:A:HIS:HD2	10	0.11
(1,1764)	1:61:A:LEU:HG	1:65:A:HIS:HD2	12	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1726)	1:5:A:PHE:HB2	1:16:A:SER:HB3	7	0.11
(1,1725)	1:16:A:SER:HB3	1:5:A:PHE:HB2	7	0.11
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG21	3	0.11
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG22	3	0.11
(1,1712)	1:14:A:ASN:HB2	1:9:A:VAL:HG23	3	0.11
(1,1695)	1:14:A:ASN:HB2	1:62:A:CYS:HB3	11	0.11
(1,1694)	1:62:A:CYS:HB3	1:14:A:ASN:HB2	11	0.11
(1,1672)	1:30:A:ASP:HB2	1:33:A:LEU:HD21	8	0.11
(1,1672)	1:30:A:ASP:HB2	1:33:A:LEU:HD22	8	0.11
(1,1672)	1:30:A:ASP:HB2	1:33:A:LEU:HD23	8	0.11
(1,1670)	1:33:A:LEU:HD21	1:30:A:ASP:HB2	8	0.11
(1,1670)	1:33:A:LEU:HD22	1:30:A:ASP:HB2	8	0.11
(1,1670)	1:33:A:LEU:HD23	1:30:A:ASP:HB2	8	0.11
(1,1633)	1:63:A:SER:HB2	1:13:A:TYR:HA	2	0.11
(1,1633)	1:63:A:SER:HB2	1:13:A:TYR:HA	8	0.11
(1,1633)	1:63:A:SER:HB2	1:13:A:TYR:HA	9	0.11
(1,1633)	1:63:A:SER:HB2	1:13:A:TYR:HA	11	0.11
(1,1633)	1:63:A:SER:HB2	1:13:A:TYR:HA	15	0.11
(1,1633)	1:63:A:SER:HB2	1:13:A:TYR:HA	17	0.11
(1,1632)	1:13:A:TYR:HA	1:63:A:SER:HB2	2	0.11
(1,1632)	1:13:A:TYR:HA	1:63:A:SER:HB2	8	0.11
(1,1632)	1:13:A:TYR:HA	1:63:A:SER:HB2	9	0.11
(1,1632)	1:13:A:TYR:HA	1:63:A:SER:HB2	11	0.11
(1,1632)	1:13:A:TYR:HA	1:63:A:SER:HB2	15	0.11
(1,1632)	1:13:A:TYR:HA	1:63:A:SER:HB2	17	0.11
(1,1631)	1:13:A:TYR:HA	1:63:A:SER:HB3	7	0.11
(1,1630)	1:63:A:SER:HB3	1:13:A:TYR:HA	7	0.11
(1,1625)	1:59:A:HIS:HD2	1:8:A:CYS:HB2	11	0.11
(1,1606)	1:14:A:ASN:HB2	1:24:A:PHE:HZ	2	0.11
(1,1604)	1:24:A:PHE:HZ	1:14:A:ASN:HB2	2	0.11
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD11	1	0.11
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD12	1	0.11
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD13	1	0.11
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD11	4	0.11
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD12	4	0.11
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD13	4	0.11
(1,1518)	1:58:A:GLY:HA2	1:59:A:HIS:H	3	0.11
(1,1487)	1:80:A:ILE:H	1:78:A:PRO:HA	15	0.11
(1,1455)	1:37:A:TRP:HH2	1:66:A:PHE:HZ	19	0.11
(1,1450)	1:66:A:PHE:HZ	1:37:A:TRP:HH2	19	0.11
(1,1441)	1:42:A:SER:HB2	1:16:A:SER:HB3	6	0.11
(1,1441)	1:42:A:SER:HB2	1:16:A:SER:HB3	10	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1439)	1:66:A:PHE:HA	1:67:A:GLN:H	5	0.11
(1,1439)	1:66:A:PHE:HA	1:67:A:GLN:H	6	0.11
(1,1439)	1:66:A:PHE:HA	1:67:A:GLN:H	17	0.11
(1,1429)	1:65:A:HIS:HA	1:80:A:ILE:H	13	0.11
(1,1428)	1:65:A:HIS:HA	1:80:A:ILE:HG13	11	0.11
(1,1378)	1:15:A:ASN:HA	1:16:A:SER:H	18	0.11
(1,1356)	1:9:A:VAL:HG11	1:81:A:PHE:HD1	19	0.11
(1,1356)	1:9:A:VAL:HG11	1:81:A:PHE:HD2	19	0.11
(1,1356)	1:9:A:VAL:HG12	1:81:A:PHE:HD1	19	0.11
(1,1356)	1:9:A:VAL:HG12	1:81:A:PHE:HD2	19	0.11
(1,1356)	1:9:A:VAL:HG13	1:81:A:PHE:HD1	19	0.11
(1,1356)	1:9:A:VAL:HG13	1:81:A:PHE:HD2	19	0.11
(1,1325)	1:19:A:ASP:H	1:18:A:ARG:HB2	10	0.11
(1,1321)	1:16:A:SER:H	1:15:A:ASN:HA	18	0.11
(1,1320)	1:16:A:SER:H	1:5:A:PHE:H	2	0.11
(1,1320)	1:16:A:SER:H	1:5:A:PHE:H	3	0.11
(1,1320)	1:16:A:SER:H	1:5:A:PHE:H	5	0.11
(1,1320)	1:16:A:SER:H	1:5:A:PHE:H	6	0.11
(1,1320)	1:16:A:SER:H	1:5:A:PHE:H	7	0.11
(1,1320)	1:16:A:SER:H	1:5:A:PHE:H	17	0.11
(1,1298)	1:27:A:PHE:HE1	1:37:A:TRP:HE3	16	0.11
(1,1298)	1:27:A:PHE:HE2	1:37:A:TRP:HE3	16	0.11
(1,1289)	1:40:A:ASN:HB2	1:81:A:PHE:HE1	2	0.11
(1,1289)	1:40:A:ASN:HB2	1:81:A:PHE:HE2	2	0.11
(1,1288)	1:81:A:PHE:HZ	1:78:A:PRO:HB3	8	0.11
(1,1288)	1:81:A:PHE:HZ	1:78:A:PRO:HB3	12	0.11
(1,1288)	1:81:A:PHE:HZ	1:78:A:PRO:HB3	14	0.11
(1,1271)	1:38:A:LEU:HD11	1:55:A:PRO:HD3	3	0.11
(1,1271)	1:38:A:LEU:HD12	1:55:A:PRO:HD3	3	0.11
(1,1271)	1:38:A:LEU:HD13	1:55:A:PRO:HD3	3	0.11
(1,1266)	1:43:A:ARG:H	1:42:A:SER:H	10	0.11
(1,1265)	1:5:A:PHE:H	1:16:A:SER:H	2	0.11
(1,1265)	1:5:A:PHE:H	1:16:A:SER:H	3	0.11
(1,1265)	1:5:A:PHE:H	1:16:A:SER:H	5	0.11
(1,1265)	1:5:A:PHE:H	1:16:A:SER:H	6	0.11
(1,1265)	1:5:A:PHE:H	1:16:A:SER:H	7	0.11
(1,1265)	1:5:A:PHE:H	1:16:A:SER:H	17	0.11
(1,1260)	1:33:A:LEU:H	1:32:A:GLU:HB3	3	0.11
(1,1260)	1:33:A:LEU:H	1:32:A:GLU:HB3	12	0.11
(1,1221)	1:63:A:SER:H	1:64:A:VAL:H	18	0.11
(1,1218)	1:32:A:GLU:HB3	1:33:A:LEU:H	3	0.11
(1,1218)	1:32:A:GLU:HB3	1:33:A:LEU:H	12	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1209)	1:78:A:PRO:HD3	1:37:A:TRP:HD1	3	0.11
(1,1209)	1:78:A:PRO:HD3	1:37:A:TRP:HD1	17	0.11
(1,1207)	1:60:A:ARG:HA	1:61:A:LEU:H	8	0.11
(1,1207)	1:60:A:ARG:HA	1:61:A:LEU:H	11	0.11
(1,1207)	1:60:A:ARG:HA	1:61:A:LEU:H	14	0.11
(1,1157)	1:62:A:CYS:H	1:61:A:LEU:HA	14	0.11
(1,1118)	1:24:A:PHE:HZ	1:14:A:ASN:HB3	1	0.11
(1,1116)	1:16:A:SER:HB3	1:42:A:SER:HB2	6	0.11
(1,1116)	1:16:A:SER:HB3	1:42:A:SER:HB2	10	0.11
(1,1108)	1:78:A:PRO:HA	1:80:A:ILE:H	15	0.11
(1,1105)	1:61:A:LEU:HA	1:62:A:CYS:H	14	0.11
(1,1101)	1:14:A:ASN:HD22	1:64:A:VAL:HG21	13	0.11
(1,1101)	1:14:A:ASN:HD22	1:64:A:VAL:HG22	13	0.11
(1,1101)	1:14:A:ASN:HD22	1:64:A:VAL:HG23	13	0.11
(1,1084)	1:37:A:TRP:HE1	1:78:A:PRO:HD2	1	0.11
(1,1078)	1:61:A:LEU:HD21	1:37:A:TRP:HH2	10	0.11
(1,1078)	1:61:A:LEU:HD22	1:37:A:TRP:HH2	10	0.11
(1,1078)	1:61:A:LEU:HD23	1:37:A:TRP:HH2	10	0.11
(1,1071)	1:14:A:ASN:HB3	1:24:A:PHE:HZ	1	0.11
(1,991)	1:66:A:PHE:H	1:65:A:HIS:H	1	0.11
(1,991)	1:66:A:PHE:H	1:65:A:HIS:H	4	0.11
(1,991)	1:66:A:PHE:H	1:65:A:HIS:H	5	0.11
(1,991)	1:66:A:PHE:H	1:65:A:HIS:H	14	0.11
(1,991)	1:66:A:PHE:H	1:65:A:HIS:H	16	0.11
(1,989)	1:64:A:VAL:H	1:63:A:SER:H	18	0.11
(1,976)	1:54:A:GLN:H	1:53:A:PHE:HA	8	0.11
(1,975)	1:68:A:GLY:H	1:67:A:GLN:HA	1	0.11
(1,975)	1:68:A:GLY:H	1:67:A:GLN:HA	7	0.11
(1,968)	1:16:A:SER:HB2	1:42:A:SER:HB3	8	0.11
(1,946)	1:67:A:GLN:HA	1:68:A:GLY:H	1	0.11
(1,946)	1:67:A:GLN:HA	1:68:A:GLY:H	7	0.11
(1,908)	1:36:A:LEU:HA	1:37:A:TRP:HD1	11	0.11
(1,904)	1:65:A:HIS:H	1:66:A:PHE:H	1	0.11
(1,904)	1:65:A:HIS:H	1:66:A:PHE:H	4	0.11
(1,904)	1:65:A:HIS:H	1:66:A:PHE:H	5	0.11
(1,904)	1:65:A:HIS:H	1:66:A:PHE:H	14	0.11
(1,904)	1:65:A:HIS:H	1:66:A:PHE:H	16	0.11
(1,894)	1:77:A:VAL:HG21	1:37:A:TRP:HD1	2	0.11
(1,894)	1:77:A:VAL:HG22	1:37:A:TRP:HD1	2	0.11
(1,894)	1:77:A:VAL:HG23	1:37:A:TRP:HD1	2	0.11
(1,873)	1:67:A:GLN:H	1:66:A:PHE:HA	5	0.11
(1,873)	1:67:A:GLN:H	1:66:A:PHE:HA	6	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,873)	1:67:A:GLN:H	1:66:A:PHE:HA	17	0.11
(1,870)	1:42:A:SER:HB3	1:16:A:SER:HB2	8	0.11
(1,820)	1:62:A:CYS:H	1:61:A:LEU:HA	14	0.11
(1,808)	1:59:A:HIS:H	1:58:A:GLY:HA2	3	0.11
(1,777)	1:64:A:VAL:H	1:63:A:SER:H	18	0.11
(1,775)	1:17:A:HIS:H	1:18:A:ARG:HD2	4	0.11
(1,768)	1:68:A:GLY:H	1:67:A:GLN:HA	1	0.11
(1,768)	1:68:A:GLY:H	1:67:A:GLN:HA	7	0.11
(1,766)	1:31:A:ALA:H	1:30:A:ASP:HB2	7	0.11
(1,766)	1:31:A:ALA:H	1:30:A:ASP:HB2	19	0.11
(1,759)	1:65:A:HIS:H	1:66:A:PHE:H	1	0.11
(1,759)	1:65:A:HIS:H	1:66:A:PHE:H	4	0.11
(1,759)	1:65:A:HIS:H	1:66:A:PHE:H	5	0.11
(1,759)	1:65:A:HIS:H	1:66:A:PHE:H	14	0.11
(1,759)	1:65:A:HIS:H	1:66:A:PHE:H	16	0.11
(1,743)	1:35:A:ARG:H	1:33:A:LEU:HA	3	0.11
(1,743)	1:35:A:ARG:H	1:33:A:LEU:HA	18	0.11
(1,743)	1:35:A:ARG:H	1:33:A:LEU:HA	19	0.11
(1,727)	1:38:A:LEU:H	1:37:A:TRP:HB3	8	0.11
(1,726)	1:38:A:LEU:H	1:37:A:TRP:HA	2	0.11
(1,726)	1:38:A:LEU:H	1:37:A:TRP:HA	3	0.11
(1,726)	1:38:A:LEU:H	1:37:A:TRP:HA	10	0.11
(1,726)	1:38:A:LEU:H	1:37:A:TRP:HA	17	0.11
(1,726)	1:38:A:LEU:H	1:37:A:TRP:HA	18	0.11
(1,719)	1:67:A:GLN:H	1:66:A:PHE:HA	5	0.11
(1,719)	1:67:A:GLN:H	1:66:A:PHE:HA	6	0.11
(1,719)	1:67:A:GLN:H	1:66:A:PHE:HA	17	0.11
(1,716)	1:67:A:GLN:H	1:66:A:PHE:HB3	12	0.11
(1,711)	1:30:A:ASP:H	1:29:A:LYS:HB2	1	0.11
(1,689)	1:80:A:ILE:H	1:78:A:PRO:HA	15	0.11
(1,687)	1:80:A:ILE:H	1:65:A:HIS:HA	13	0.11
(1,684)	1:80:A:ILE:H	1:81:A:PHE:H	2	0.11
(1,674)	1:40:A:ASN:H	1:39:A:LYS:HA	10	0.11
(1,666)	1:76:A:ARG:H	1:75:A:VAL:HB	8	0.11
(1,666)	1:76:A:ARG:H	1:75:A:VAL:HB	16	0.11
(1,651)	1:70:A:ARG:H	1:69:A:GLY:HA3	11	0.11
(1,618)	1:16:A:SER:H	1:15:A:ASN:HA	18	0.11
(1,591)	1:5:A:PHE:H	1:16:A:SER:H	2	0.11
(1,591)	1:5:A:PHE:H	1:16:A:SER:H	3	0.11
(1,591)	1:5:A:PHE:H	1:16:A:SER:H	5	0.11
(1,591)	1:5:A:PHE:H	1:16:A:SER:H	6	0.11
(1,591)	1:5:A:PHE:H	1:16:A:SER:H	7	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,591)	1:5:A:PHE:H	1:16:A:SER:H	17	0.11
(1,571)	1:63:A:SER:H	1:64:A:VAL:H	18	0.11
(1,559)	1:6:A:THR:HA	1:15:A:ASN:HA	4	0.11
(1,556)	1:6:A:THR:HA	1:15:A:ASN:HA	4	0.11
(1,519)	1:67:A:GLN:HA	1:68:A:GLY:H	1	0.11
(1,519)	1:67:A:GLN:HA	1:68:A:GLY:H	7	0.11
(1,489)	1:39:A:LYS:HB3	1:36:A:LEU:HA	5	0.11
(1,489)	1:39:A:LYS:HB3	1:36:A:LEU:HA	19	0.11
(1,477)	1:14:A:ASN:HB3	1:22:A:LEU:HD21	10	0.11
(1,477)	1:14:A:ASN:HB3	1:22:A:LEU:HD22	10	0.11
(1,477)	1:14:A:ASN:HB3	1:22:A:LEU:HD23	10	0.11
(1,475)	1:14:A:ASN:HB3	1:24:A:PHE:HZ	1	0.11
(1,418)	1:28:A:PRO:HD3	1:37:A:TRP:HZ3	4	0.11
(1,418)	1:28:A:PRO:HD3	1:37:A:TRP:HZ3	8	0.11
(1,417)	1:15:A:ASN:HA	1:16:A:SER:H	18	0.11
(1,416)	1:15:A:ASN:HA	1:6:A:THR:HA	4	0.11
(1,387)	1:28:A:PRO:HD2	1:34:A:ARG:HB2	11	0.11
(1,387)	1:28:A:PRO:HD2	1:34:A:ARG:HB2	14	0.11
(1,381)	1:28:A:PRO:HD2	1:37:A:TRP:HZ3	2	0.11
(1,359)	1:78:A:PRO:HB3	1:81:A:PHE:HZ	8	0.11
(1,359)	1:78:A:PRO:HB3	1:81:A:PHE:HZ	12	0.11
(1,359)	1:78:A:PRO:HB3	1:81:A:PHE:HZ	14	0.11
(1,346)	1:33:A:LEU:HD11	1:37:A:TRP:HD1	16	0.11
(1,346)	1:33:A:LEU:HD12	1:37:A:TRP:HD1	16	0.11
(1,346)	1:33:A:LEU:HD13	1:37:A:TRP:HD1	16	0.11
(1,340)	1:68:A:GLY:HA3	1:69:A:GLY:H	13	0.11
(1,332)	1:16:A:SER:HB3	1:5:A:PHE:HD1	1	0.11
(1,332)	1:16:A:SER:HB3	1:5:A:PHE:HD2	1	0.11
(1,322)	1:78:A:PRO:HA	1:80:A:ILE:H	15	0.11
(1,303)	1:30:A:ASP:HB2	1:33:A:LEU:HD21	8	0.11
(1,303)	1:30:A:ASP:HB2	1:33:A:LEU:HD22	8	0.11
(1,303)	1:30:A:ASP:HB2	1:33:A:LEU:HD23	8	0.11
(1,295)	1:38:A:LEU:HB2	1:35:A:ARG:HA	9	0.11
(1,295)	1:38:A:LEU:HB2	1:35:A:ARG:HA	11	0.11
(1,295)	1:38:A:LEU:HB2	1:35:A:ARG:HA	13	0.11
(1,294)	1:38:A:LEU:HB2	1:39:A:LYS:H	1	0.11
(1,283)	1:28:A:PRO:HB2	1:33:A:LEU:HG	2	0.11
(1,283)	1:28:A:PRO:HB2	1:33:A:LEU:HG	4	0.11
(1,283)	1:28:A:PRO:HB2	1:33:A:LEU:HG	8	0.11
(1,283)	1:28:A:PRO:HB2	1:33:A:LEU:HG	12	0.11
(1,283)	1:28:A:PRO:HB2	1:33:A:LEU:HG	15	0.11
(1,283)	1:28:A:PRO:HB2	1:33:A:LEU:HG	17	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,274)	1:69:A:GLY:HA3	1:70:A:ARG:H	11	0.11
(1,258)	1:6:A:THR:HA	1:15:A:ASN:HA	4	0.11
(1,255)	1:28:A:PRO:HB3	1:33:A:LEU:HG	3	0.11
(1,255)	1:28:A:PRO:HB3	1:33:A:LEU:HG	12	0.11
(1,255)	1:28:A:PRO:HB3	1:33:A:LEU:HG	15	0.11
(1,255)	1:28:A:PRO:HB3	1:33:A:LEU:HG	16	0.11
(1,234)	1:61:A:LEU:HD11	1:65:A:HIS:HD2	1	0.11
(1,234)	1:61:A:LEU:HD12	1:65:A:HIS:HD2	1	0.11
(1,234)	1:61:A:LEU:HD13	1:65:A:HIS:HD2	1	0.11
(1,234)	1:61:A:LEU:HD11	1:65:A:HIS:HD2	4	0.11
(1,234)	1:61:A:LEU:HD12	1:65:A:HIS:HD2	4	0.11
(1,234)	1:61:A:LEU:HD13	1:65:A:HIS:HD2	4	0.11
(1,217)	1:38:A:LEU:HD11	1:27:A:PHE:HZ	5	0.11
(1,217)	1:38:A:LEU:HD12	1:27:A:PHE:HZ	5	0.11
(1,217)	1:38:A:LEU:HD13	1:27:A:PHE:HZ	5	0.11
(1,212)	1:67:A:GLN:HB2	1:80:A:ILE:HD11	4	0.11
(1,212)	1:67:A:GLN:HB2	1:80:A:ILE:HD12	4	0.11
(1,212)	1:67:A:GLN:HB2	1:80:A:ILE:HD13	4	0.11
(1,158)	1:71:A:LYS:HE3	1:37:A:TRP:HZ2	15	0.11
(1,133)	1:34:A:ARG:HA	1:28:A:PRO:HG2	4	0.11
(1,133)	1:34:A:ARG:HA	1:28:A:PRO:HG2	8	0.11
(1,133)	1:34:A:ARG:HA	1:28:A:PRO:HG2	10	0.11
(1,133)	1:34:A:ARG:HA	1:28:A:PRO:HG2	15	0.11
(1,133)	1:34:A:ARG:HA	1:28:A:PRO:HG2	18	0.11
(1,130)	1:34:A:ARG:HA	1:33:A:LEU:HG	8	0.11
(1,122)	1:36:A:LEU:HA	1:37:A:TRP:HD1	11	0.11
(1,114)	1:61:A:LEU:HD21	1:37:A:TRP:HH2	10	0.11
(1,114)	1:61:A:LEU:HD22	1:37:A:TRP:HH2	10	0.11
(1,114)	1:61:A:LEU:HD23	1:37:A:TRP:HH2	10	0.11
(1,98)	1:31:A:ALA:HA	1:34:A:ARG:H	5	0.11
(1,98)	1:31:A:ALA:HA	1:34:A:ARG:H	7	0.11
(1,98)	1:31:A:ALA:HA	1:34:A:ARG:H	11	0.11
(1,1)	1:32:A:GLU:HB3	1:33:A:LEU:H	3	0.11
(1,1)	1:32:A:GLU:HB3	1:33:A:LEU:H	12	0.11
(1,1765)	1:65:A:HIS:HD2	1:61:A:LEU:HG	13	0.1
(1,1764)	1:61:A:LEU:HG	1:65:A:HIS:HD2	13	0.1
(1,1695)	1:14:A:ASN:HB2	1:62:A:CYS:HB3	13	0.1
(1,1694)	1:62:A:CYS:HB3	1:14:A:ASN:HB2	13	0.1
(1,1672)	1:30:A:ASP:HB2	1:33:A:LEU:HD21	4	0.1
(1,1672)	1:30:A:ASP:HB2	1:33:A:LEU:HD22	4	0.1
(1,1672)	1:30:A:ASP:HB2	1:33:A:LEU:HD23	4	0.1
(1,1670)	1:33:A:LEU:HD21	1:30:A:ASP:HB2	4	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1670)	1:33:A:LEU:HD22	1:30:A:ASP:HB2	4	0.1
(1,1670)	1:33:A:LEU:HD23	1:30:A:ASP:HB2	4	0.1
(1,1661)	1:24:A:PHE:HD1	1:62:A:CYS:HA	4	0.1
(1,1661)	1:24:A:PHE:HD2	1:62:A:CYS:HA	4	0.1
(1,1660)	1:62:A:CYS:HA	1:24:A:PHE:HD1	4	0.1
(1,1660)	1:62:A:CYS:HA	1:24:A:PHE:HD2	4	0.1
(1,1625)	1:59:A:HIS:HD2	1:8:A:CYS:HB2	16	0.1
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD11	2	0.1
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD12	2	0.1
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD13	2	0.1
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD11	6	0.1
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD12	6	0.1
(1,1528)	1:65:A:HIS:HD2	1:61:A:LEU:HD13	6	0.1
(1,1378)	1:15:A:ASN:HA	1:16:A:SER:H	19	0.1
(1,1321)	1:16:A:SER:H	1:15:A:ASN:HA	19	0.1
(1,1310)	1:71:A:LYS:HG3	1:72:A:THR:H	11	0.1
(1,1292)	1:27:A:PHE:HE1	1:37:A:TRP:HZ3	7	0.1
(1,1292)	1:27:A:PHE:HE2	1:37:A:TRP:HZ3	7	0.1
(1,1288)	1:81:A:PHE:HZ	1:78:A:PRO:HB3	4	0.1
(1,1288)	1:81:A:PHE:HZ	1:78:A:PRO:HB3	5	0.1
(1,1288)	1:81:A:PHE:HZ	1:78:A:PRO:HB3	9	0.1
(1,1288)	1:81:A:PHE:HZ	1:78:A:PRO:HB3	13	0.1
(1,1260)	1:33:A:LEU:H	1:32:A:GLU:HB3	4	0.1
(1,1260)	1:33:A:LEU:H	1:32:A:GLU:HB3	9	0.1
(1,1260)	1:33:A:LEU:H	1:32:A:GLU:HB3	18	0.1
(1,1218)	1:32:A:GLU:HB3	1:33:A:LEU:H	4	0.1
(1,1218)	1:32:A:GLU:HB3	1:33:A:LEU:H	9	0.1
(1,1218)	1:32:A:GLU:HB3	1:33:A:LEU:H	18	0.1
(1,1209)	1:78:A:PRO:HD3	1:37:A:TRP:HD1	19	0.1
(1,1207)	1:60:A:ARG:HA	1:61:A:LEU:H	10	0.1
(1,1207)	1:60:A:ARG:HA	1:61:A:LEU:H	17	0.1
(1,1157)	1:62:A:CYS:H	1:61:A:LEU:HA	3	0.1
(1,1157)	1:62:A:CYS:H	1:61:A:LEU:HA	12	0.1
(1,1118)	1:24:A:PHE:HZ	1:14:A:ASN:HB3	8	0.1
(1,1105)	1:61:A:LEU:HA	1:62:A:CYS:H	3	0.1
(1,1105)	1:61:A:LEU:HA	1:62:A:CYS:H	12	0.1
(1,1101)	1:14:A:ASN:HD22	1:64:A:VAL:HG21	15	0.1
(1,1101)	1:14:A:ASN:HD22	1:64:A:VAL:HG22	15	0.1
(1,1101)	1:14:A:ASN:HD22	1:64:A:VAL:HG23	15	0.1
(1,1101)	1:14:A:ASN:HD22	1:64:A:VAL:HG21	16	0.1
(1,1101)	1:14:A:ASN:HD22	1:64:A:VAL:HG22	16	0.1
(1,1101)	1:14:A:ASN:HD22	1:64:A:VAL:HG23	16	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1078)	1:61:A:LEU:HD21	1:37:A:TRP:HH2	2	0.1
(1,1078)	1:61:A:LEU:HD22	1:37:A:TRP:HH2	2	0.1
(1,1078)	1:61:A:LEU:HD23	1:37:A:TRP:HH2	2	0.1
(1,1071)	1:14:A:ASN:HB3	1:24:A:PHE:HZ	8	0.1
(1,1032)	1:37:A:TRP:HZ3	1:27:A:PHE:HE1	7	0.1
(1,1032)	1:37:A:TRP:HZ3	1:27:A:PHE:HE2	7	0.1
(1,1011)	1:33:A:LEU:HA	1:36:A:LEU:HB2	3	0.1
(1,991)	1:66:A:PHE:H	1:65:A:HIS:H	8	0.1
(1,975)	1:68:A:GLY:H	1:67:A:GLN:HA	8	0.1
(1,968)	1:16:A:SER:HB2	1:42:A:SER:HB3	4	0.1
(1,951)	1:24:A:PHE:HE1	1:62:A:CYS:HB2	5	0.1
(1,951)	1:24:A:PHE:HE2	1:62:A:CYS:HB2	5	0.1
(1,946)	1:67:A:GLN:HA	1:68:A:GLY:H	8	0.1
(1,908)	1:36:A:LEU:HA	1:37:A:TRP:HD1	18	0.1
(1,904)	1:65:A:HIS:H	1:66:A:PHE:H	8	0.1
(1,870)	1:42:A:SER:HB3	1:16:A:SER:HB2	4	0.1
(1,859)	1:40:A:ASN:HD22	1:79:A:THR:HA	14	0.1
(1,820)	1:62:A:CYS:H	1:61:A:LEU:HA	3	0.1
(1,820)	1:62:A:CYS:H	1:61:A:LEU:HA	12	0.1
(1,817)	1:45:A:GLY:H	1:44:A:ALA:HA	18	0.1
(1,769)	1:68:A:GLY:H	1:69:A:GLY:H	4	0.1
(1,768)	1:68:A:GLY:H	1:67:A:GLN:HA	8	0.1
(1,766)	1:31:A:ALA:H	1:30:A:ASP:HB2	11	0.1
(1,762)	1:69:A:GLY:H	1:68:A:GLY:H	4	0.1
(1,759)	1:65:A:HIS:H	1:66:A:PHE:H	8	0.1
(1,743)	1:35:A:ARG:H	1:33:A:LEU:HA	4	0.1
(1,727)	1:38:A:LEU:H	1:37:A:TRP:HB3	12	0.1
(1,726)	1:38:A:LEU:H	1:37:A:TRP:HA	1	0.1
(1,726)	1:38:A:LEU:H	1:37:A:TRP:HA	4	0.1
(1,717)	1:67:A:GLN:H	1:75:A:VAL:HG11	11	0.1
(1,717)	1:67:A:GLN:H	1:75:A:VAL:HG12	11	0.1
(1,717)	1:67:A:GLN:H	1:75:A:VAL:HG13	11	0.1
(1,690)	1:80:A:ILE:H	1:79:A:THR:HB	16	0.1
(1,684)	1:80:A:ILE:H	1:81:A:PHE:H	7	0.1
(1,683)	1:80:A:ILE:H	1:65:A:HIS:HB2	12	0.1
(1,683)	1:80:A:ILE:H	1:65:A:HIS:HB2	17	0.1
(1,618)	1:16:A:SER:H	1:15:A:ASN:HA	19	0.1
(1,519)	1:67:A:GLN:HA	1:68:A:GLY:H	8	0.1
(1,475)	1:14:A:ASN:HB3	1:24:A:PHE:HZ	8	0.1
(1,417)	1:15:A:ASN:HA	1:16:A:SER:H	19	0.1
(1,387)	1:28:A:PRO:HD2	1:34:A:ARG:HB2	8	0.1
(1,387)	1:28:A:PRO:HD2	1:34:A:ARG:HB2	10	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,381)	1:28:A:PRO:HD2	1:37:A:TRP:HZ3	5	0.1
(1,373)	1:33:A:LEU:HB3	1:34:A:ARG:H	9	0.1
(1,359)	1:78:A:PRO:HB3	1:81:A:PHE:HZ	4	0.1
(1,359)	1:78:A:PRO:HB3	1:81:A:PHE:HZ	5	0.1
(1,359)	1:78:A:PRO:HB3	1:81:A:PHE:HZ	9	0.1
(1,359)	1:78:A:PRO:HB3	1:81:A:PHE:HZ	13	0.1
(1,303)	1:30:A:ASP:HB2	1:33:A:LEU:HD21	4	0.1
(1,303)	1:30:A:ASP:HB2	1:33:A:LEU:HD22	4	0.1
(1,303)	1:30:A:ASP:HB2	1:33:A:LEU:HD23	4	0.1
(1,295)	1:38:A:LEU:HB2	1:35:A:ARG:HA	5	0.1
(1,294)	1:38:A:LEU:HB2	1:39:A:LYS:H	8	0.1
(1,283)	1:28:A:PRO:HB2	1:33:A:LEU:HG	5	0.1
(1,283)	1:28:A:PRO:HB2	1:33:A:LEU:HG	11	0.1
(1,283)	1:28:A:PRO:HB2	1:33:A:LEU:HG	14	0.1
(1,255)	1:28:A:PRO:HB3	1:33:A:LEU:HG	14	0.1
(1,234)	1:61:A:LEU:HD11	1:65:A:HIS:HD2	2	0.1
(1,234)	1:61:A:LEU:HD12	1:65:A:HIS:HD2	2	0.1
(1,234)	1:61:A:LEU:HD13	1:65:A:HIS:HD2	2	0.1
(1,234)	1:61:A:LEU:HD11	1:65:A:HIS:HD2	6	0.1
(1,234)	1:61:A:LEU:HD12	1:65:A:HIS:HD2	6	0.1
(1,234)	1:61:A:LEU:HD13	1:65:A:HIS:HD2	6	0.1
(1,154)	1:44:A:ALA:HA	1:45:A:GLY:H	18	0.1
(1,122)	1:36:A:LEU:HA	1:37:A:TRP:HD1	18	0.1
(1,114)	1:61:A:LEU:HD21	1:37:A:TRP:HH2	2	0.1
(1,114)	1:61:A:LEU:HD22	1:37:A:TRP:HH2	2	0.1
(1,114)	1:61:A:LEU:HD23	1:37:A:TRP:HH2	2	0.1
(1,113)	1:61:A:LEU:HD21	1:81:A:PHE:HD1	9	0.1
(1,113)	1:61:A:LEU:HD21	1:81:A:PHE:HD2	9	0.1
(1,113)	1:61:A:LEU:HD22	1:81:A:PHE:HD1	9	0.1
(1,113)	1:61:A:LEU:HD22	1:81:A:PHE:HD2	9	0.1
(1,113)	1:61:A:LEU:HD23	1:81:A:PHE:HD1	9	0.1
(1,113)	1:61:A:LEU:HD23	1:81:A:PHE:HD2	9	0.1
(1,98)	1:31:A:ALA:HA	1:34:A:ARG:H	6	0.1
(1,29)	1:41:A:VAL:HG11	1:38:A:LEU:HA	6	0.1
(1,29)	1:41:A:VAL:HG12	1:38:A:LEU:HA	6	0.1
(1,29)	1:41:A:VAL:HG13	1:38:A:LEU:HA	6	0.1
(1,1)	1:32:A:GLU:HB3	1:33:A:LEU:H	4	0.1
(1,1)	1:32:A:GLU:HB3	1:33:A:LEU:H	9	0.1
(1,1)	1:32:A:GLU:HB3	1:33:A:LEU:H	18	0.1

## 10 Dihedral-angle violation analysis

No dihedral-angle restraints found