



# Full wwPDB NMR Structure Validation Report ⓘ

Jan 27, 2026 – 10:18 PM JST

PDB ID : 9VCD / pdb\_00009vcd  
BMRB ID : 52953  
Title : N-terminal dimeric C2H2-domain of Drosophila melanogaster IMZF protein  
Authors : Dukhalin, S.D.; Mariasina, S.S.; Polshakov, V.I.; Bocharov, E.V.; Balagurov, K.I.  
Deposited on : 2025-06-05

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 : **FAILED**  
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) : 2.47

## 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 45%.

There are no overall percentile quality scores available for this entry.

The sequence quality summary graphics cannot be shown.

## 2 Ensemble composition and analysis i

This entry contains 20 models. Model 14 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *closest to the average*.

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:21-A:42, A:47-A:57, B:20-B:41, B:47-B:57 (66)	0.21	14

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 6 clusters. No single-model clusters were found.

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

### 3 Entry composition i

There are 2 unique types of molecules in this entry. The entry contains 2064 atoms, of which 1008 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called FI23536p1.

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	A	68	1031	334	504	89	100	4	0
1	B	68	1031	334	504	89	100	4	0

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	SER	-	expression tag	UNP Q9W3J0
A	2	GLY	-	expression tag	UNP Q9W3J0
A	3	SER	-	expression tag	UNP Q9W3J0
A	4	PRO	-	expression tag	UNP Q9W3J0
A	5	GLU	-	expression tag	UNP Q9W3J0
A	6	PHE	-	expression tag	UNP Q9W3J0
B	1	SER	-	expression tag	UNP Q9W3J0
B	2	GLY	-	expression tag	UNP Q9W3J0
B	3	SER	-	expression tag	UNP Q9W3J0
B	4	PRO	-	expression tag	UNP Q9W3J0
B	5	GLU	-	expression tag	UNP Q9W3J0
B	6	PHE	-	expression tag	UNP Q9W3J0

- Molecule 2 is ZINC ION (CCD ID: ZN) (formula: Zn) (labeled as "Ligand of Interest" by depositor).

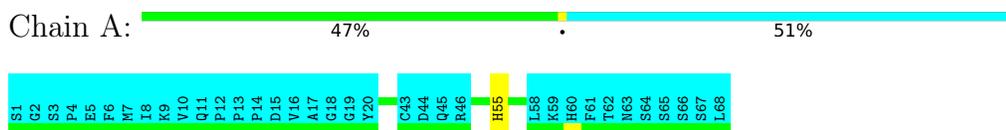
Mol	Chain	Residues	Atoms	
			Total	Zn
2	A	1	1	1
2	B	1	1	1

## 4 Residue-property plots i

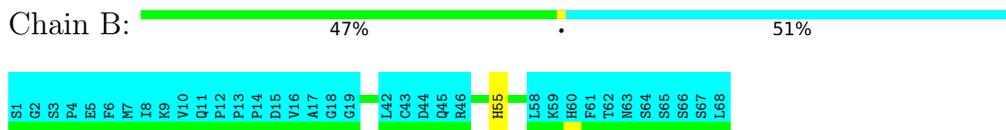
### 4.1 Average score per residue in the NMR ensemble

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

- Molecule 1: FI23536p1



- Molecule 1: FI23536p1

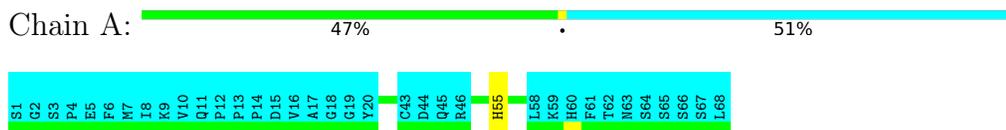


### 4.2 Scores per residue for each member of the ensemble

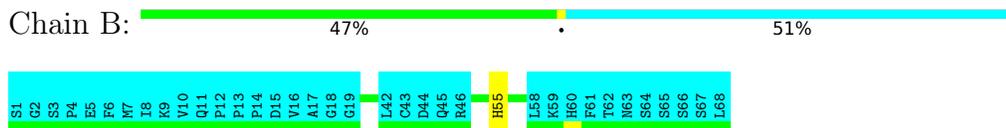
Colouring as in section 4.1 above.

#### 4.2.1 Score per residue for model 1

- Molecule 1: FI23536p1

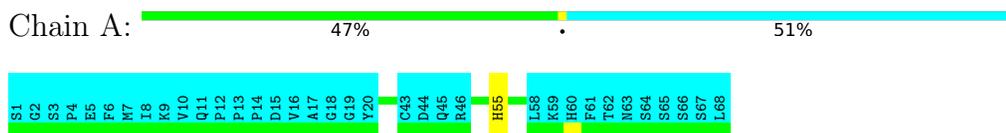


- Molecule 1: FI23536p1

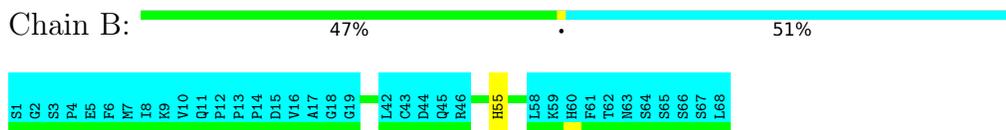


### 4.2.2 Score per residue for model 2

- Molecule 1: FI23536p1

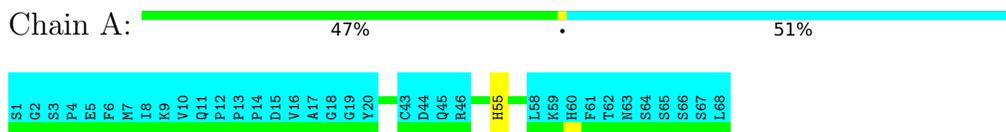


- Molecule 1: FI23536p1

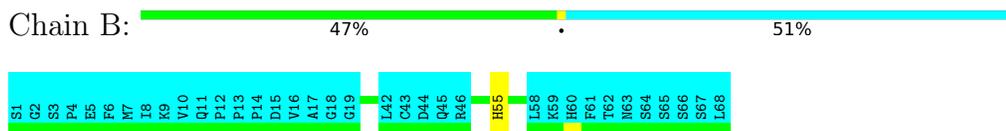


### 4.2.3 Score per residue for model 3

- Molecule 1: FI23536p1

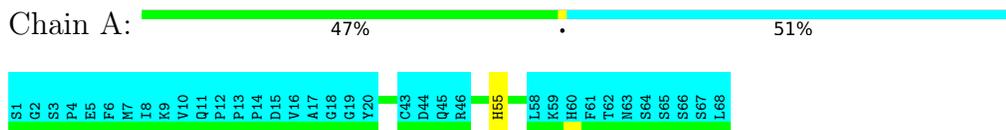


- Molecule 1: FI23536p1

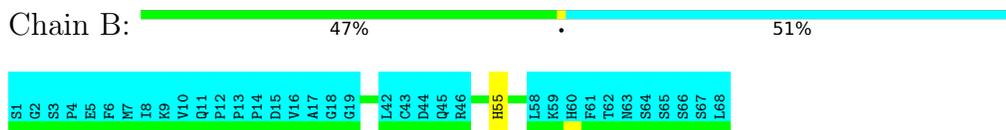


### 4.2.4 Score per residue for model 4

- Molecule 1: FI23536p1

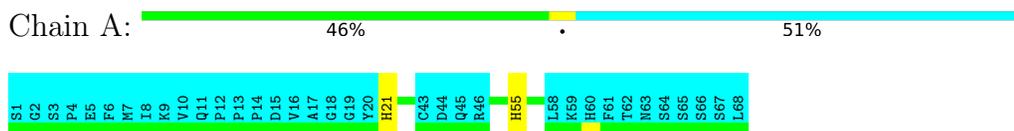


- Molecule 1: FI23536p1

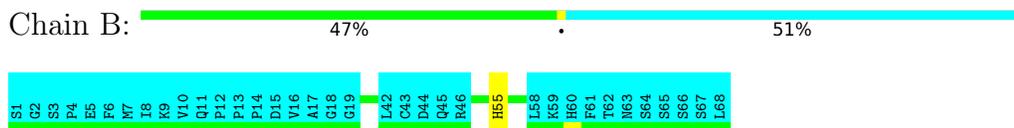


### 4.2.5 Score per residue for model 5

- Molecule 1: FI23536p1

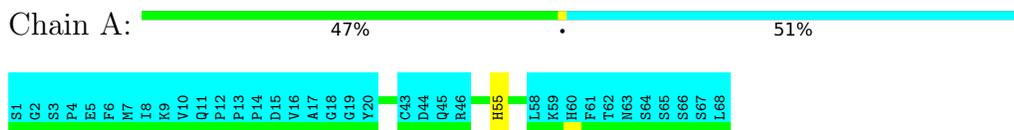


- Molecule 1: FI23536p1



### 4.2.6 Score per residue for model 6

- Molecule 1: FI23536p1

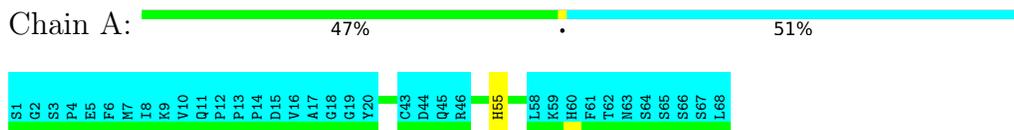


- Molecule 1: FI23536p1

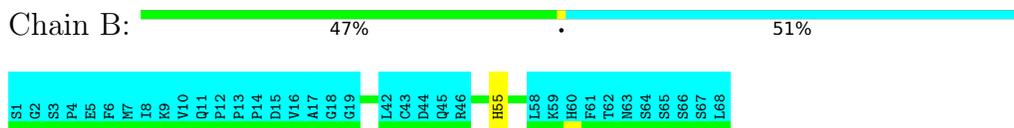


### 4.2.7 Score per residue for model 7

- Molecule 1: FI23536p1

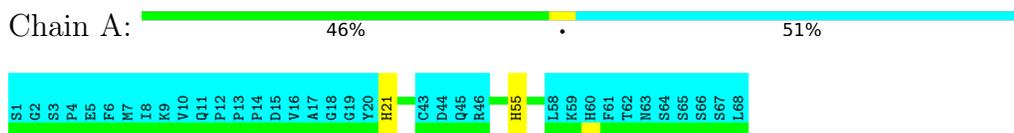


- Molecule 1: FI23536p1

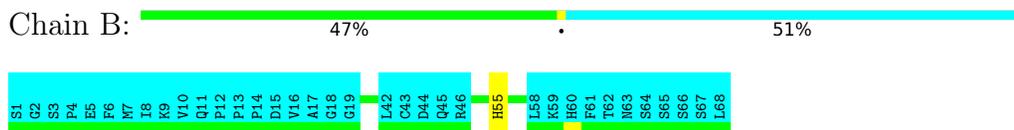


### 4.2.8 Score per residue for model 8

- Molecule 1: FI23536p1

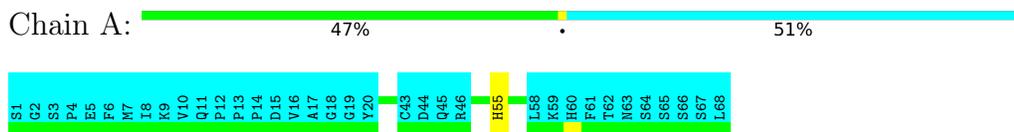


- Molecule 1: FI23536p1



### 4.2.9 Score per residue for model 9

- Molecule 1: FI23536p1

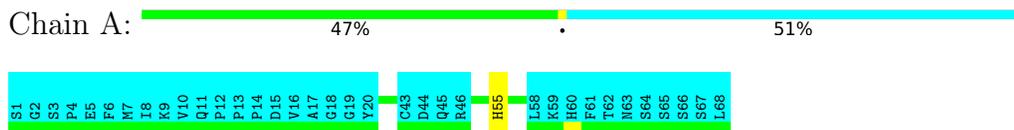


- Molecule 1: FI23536p1

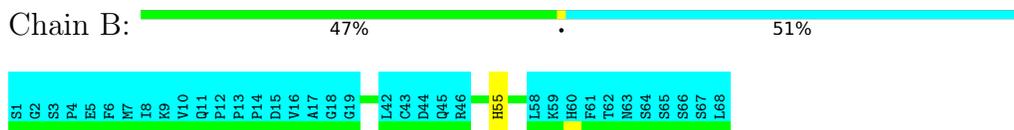


### 4.2.10 Score per residue for model 10

- Molecule 1: FI23536p1



- Molecule 1: FI23536p1

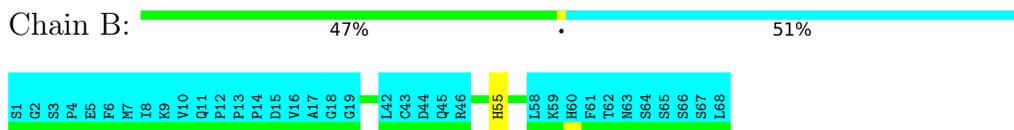


### 4.2.11 Score per residue for model 11

- Molecule 1: FI23536p1



- Molecule 1: FI23536p1

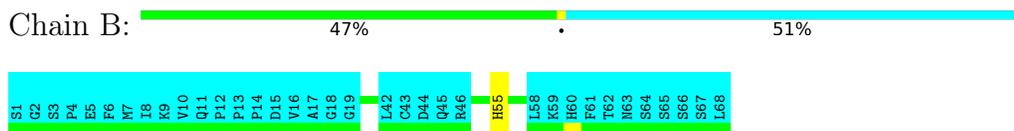


### 4.2.12 Score per residue for model 12

- Molecule 1: FI23536p1

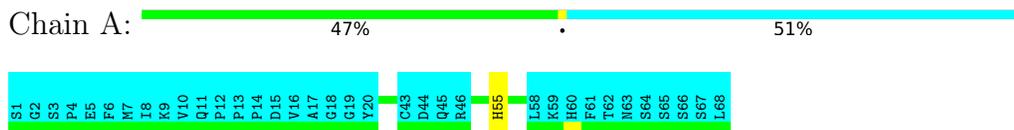


- Molecule 1: FI23536p1

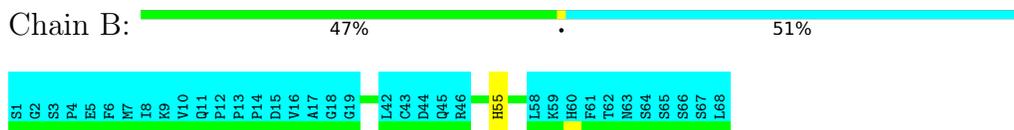


### 4.2.13 Score per residue for model 13

- Molecule 1: FI23536p1

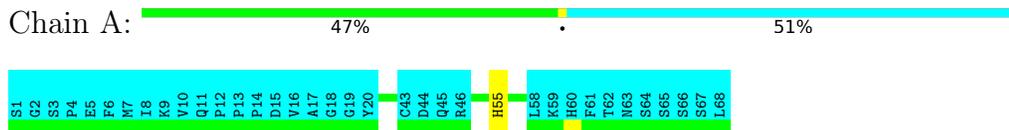


- Molecule 1: FI23536p1



#### 4.2.14 Score per residue for model 14 (medoid)

- Molecule 1: FI23536p1



- Molecule 1: FI23536p1

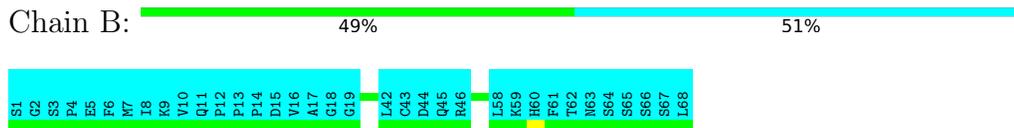


#### 4.2.15 Score per residue for model 15

- Molecule 1: FI23536p1



- Molecule 1: FI23536p1

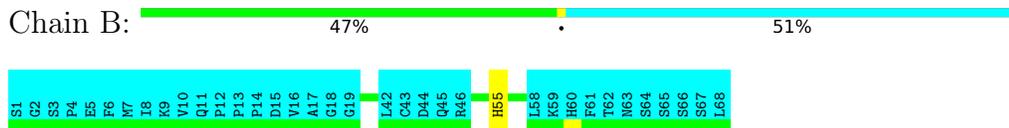


#### 4.2.16 Score per residue for model 16

- Molecule 1: FI23536p1



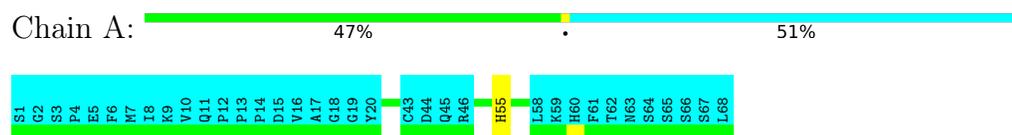
- Molecule 1: FI23536p1



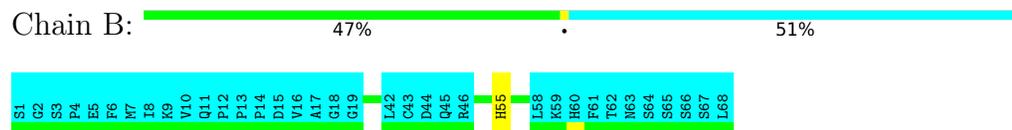


## 4.2.20 Score per residue for model 20

### ● Molecule 1: FI23536p1



### ● Molecule 1: FI23536p1



## 5 Refinement protocol and experimental data overview

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

Of the 200 calculated structures, 20 were deposited, based on the following criterion: *structures with the least restraint violations*.

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

Software name	Classification	Version
CNS	structure calculation	
CNS	refinement	

The following table shows chemical shift validation statistics as aggregates over all chemical shift files. Detailed validation can be found in section 7 of this report.

Chemical shift file(s)	working_cs.cif
Number of chemical shift lists	1
Total number of shifts	701
Number of shifts mapped to atoms	701
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	45%

## 6 Model quality [i](#)

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

MolProbity failed to run properly - this section will have to be empty.

### 6.2 Too-close contacts [i](#)

MolProbity failed to run properly - this section will have to be empty.

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

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

MolProbity failed to run properly - this section will have to be empty.

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

MolProbity failed to run properly - this section will have to be empty.

#### 6.3.3 RNA [i](#)

MolProbity failed to run properly - this section will have to be empty.

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

MolProbity failed to run properly - this section will have to be empty.

### 6.5 Carbohydrates [i](#)

MolProbity failed to run properly - this section will have to be empty.

### 6.6 Ligand geometry [i](#)

MolProbity failed to run properly - this section will have to be empty.

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

MolProbity failed to run properly - this section will have to be empty.

## 6.8 Polymer linkage issues

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 45% for the well-defined parts and 39% for the entire structure.

### 7.1 Chemical shift list 1

File name: working\_cs.cif

Chemical shift list name: *D\_1300058657\_cs\_P1.str.V1*

#### 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	701
Number of shifts mapped to atoms	701
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	1

#### 7.1.2 Chemical shift referencing i

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction $\pm$ precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	60	$-1.06 \pm 0.15$	Should be checked
$^{13}\text{C}_\beta$	56	$-0.50 \pm 0.20$	None needed ( $< 0.5$ ppm)
$^{13}\text{C}'$	57	$0.33 \pm 0.16$	None needed ( $< 0.5$ ppm)
$^{15}\text{N}$	52	$-0.86 \pm 0.52$	None needed (imprecise)

#### 7.1.3 Completeness of resonance assignments i

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 45%, i.e. 402 atoms were assigned a chemical shift out of a possible 895. 0 out of 15 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	$^1\text{H}$	$^{13}\text{C}$	$^{15}\text{N}$
Backbone	161/322 (50%)	65/130 (50%)	66/132 (50%)	30/60 (50%)
Sidechain	200/458 (44%)	132/301 (44%)	67/143 (47%)	1/14 (7%)

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	Total	<sup>1</sup> H	<sup>13</sup> C	<sup>15</sup> N
Aromatic	41/115 (36%)	21/56 (38%)	20/53 (38%)	0/6 (0%)
Overall	402/895 (45%)	218/487 (45%)	153/328 (47%)	31/80 (39%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 39%, i.e. 701 atoms were assigned a chemical shift out of a possible 1776. 0 out of 24 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	<sup>1</sup> H	<sup>13</sup> C	<sup>15</sup> N
Backbone	285/662 (43%)	116/268 (43%)	117/272 (43%)	52/122 (43%)
Sidechain	355/936 (38%)	230/612 (38%)	121/294 (41%)	4/30 (13%)
Aromatic	61/178 (34%)	31/88 (35%)	30/82 (37%)	0/8 (0%)
Overall	701/1776 (39%)	377/968 (39%)	268/648 (41%)	56/160 (35%)

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

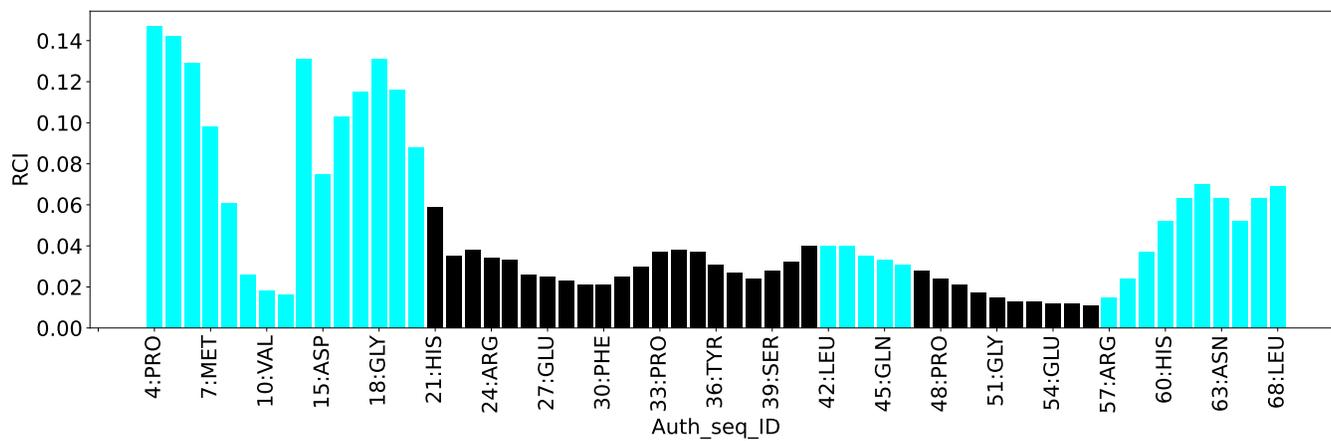
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	59	LYS	HB3	0.34	0.46 – 3.04	-5.5

#### 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	1120
Intra-residue ( $ i-j =0$ )	478
Sequential ( $ i-j =1$ )	264
Medium range ( $ i-j >1$ and $ i-j <5$ )	84
Long range ( $ i-j \geq 5$ )	136
Inter-chain	78
Hydrogen bond restraints	72
Disulfide bond restraints	0
Total dihedral-angle restraints	350
Number of unmapped restraints	0
Number of restraints per residue	10.7
Number of long range restraints per residue <sup>1</sup>	1.2

<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)	108.5	0.2
0.2-0.5 (Medium)	26.1	0.5
>0.5 (Large)	3.9	2.33

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

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

Bins (°)	Average number of violations per model	Max (°)
1.0-10.0 (Small)	55.6	9.77
10.0-20.0 (Medium)	None	None
>20.0 (Large)	None	None

## 9 Distance violation analysis i

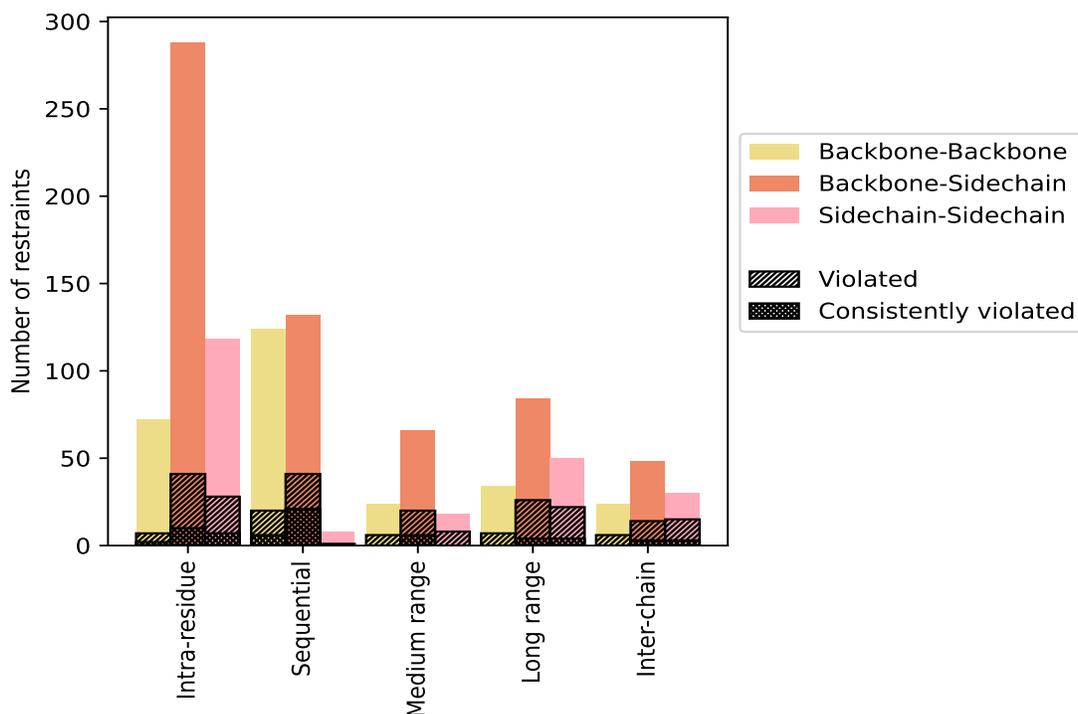
### 9.1 Summary of distance violations i

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

Restrains type	Count	% <sup>1</sup>	Violated <sup>3</sup>			Consistently Violated <sup>4</sup>		
			Count	% <sup>2</sup>	% <sup>1</sup>	Count	% <sup>2</sup>	% <sup>1</sup>
<b>Intra-residue (<math> i-j =0</math>)</b>	<b>478</b>	<b>42.7</b>	<b>76</b>	<b>15.9</b>	<b>6.8</b>	<b>19</b>	<b>4.0</b>	<b>1.7</b>
Backbone-Backbone	72	6.4	7	9.7	0.6	2	2.8	0.2
Backbone-Sidechain	288	25.7	41	14.2	3.7	10	3.5	0.9
Sidechain-Sidechain	118	10.5	28	23.7	2.5	7	5.9	0.6
<b>Sequential (<math> i-j =1</math>)</b>	<b>264</b>	<b>23.6</b>	<b>62</b>	<b>23.5</b>	<b>5.5</b>	<b>27</b>	<b>10.2</b>	<b>2.4</b>
Backbone-Backbone	124	11.1	20	16.1	1.8	6	4.8	0.5
Backbone-Sidechain	132	11.8	41	31.1	3.7	21	15.9	1.9
Sidechain-Sidechain	8	0.7	1	12.5	0.1	0	0.0	0.0
<b>Medium range (<math> i-j &gt;1</math> &amp; <math> i-j &lt;5</math>)</b>	<b>84</b>	<b>7.5</b>	<b>34</b>	<b>40.5</b>	<b>3.0</b>	<b>6</b>	<b>7.1</b>	<b>0.5</b>
Backbone-Backbone	24	2.1	6	25.0	0.5	0	0.0	0.0
Backbone-Sidechain	42	3.8	20	47.6	1.8	6	14.3	0.5
Sidechain-Sidechain	18	1.6	8	44.4	0.7	0	0.0	0.0
<b>Long range (<math> i-j \geq 5</math>)</b>	<b>136</b>	<b>12.1</b>	<b>55</b>	<b>40.4</b>	<b>4.9</b>	<b>8</b>	<b>5.9</b>	<b>0.7</b>
Backbone-Backbone	34	3.0	7	20.6	0.6	0	0.0	0.0
Backbone-Sidechain	52	4.6	26	50.0	2.3	4	7.7	0.4
Sidechain-Sidechain	50	4.5	22	44.0	2.0	4	8.0	0.4
<b>Inter-chain</b>	<b>78</b>	<b>7.0</b>	<b>30</b>	<b>38.5</b>	<b>2.7</b>	<b>6</b>	<b>7.7</b>	<b>0.5</b>
Backbone-Backbone	24	2.1	6	25.0	0.5	0	0.0	0.0
Backbone-Sidechain	32	2.9	14	43.8	1.2	3	9.4	0.3
Sidechain-Sidechain	22	2.0	10	45.5	0.9	3	13.6	0.3
<b>Hydrogen bond</b>	<b>72</b>	<b>6.4</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>
<b>Disulfide bond</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>
<b>Total</b>	<b>1120</b>	<b>100.0</b>	<b>262</b>	<b>23.4</b>	<b>23.4</b>	<b>66</b>	<b>5.9</b>	<b>5.9</b>
Backbone-Backbone	278	24.8	46	16.5	4.1	8	2.9	0.7
Backbone-Sidechain	618	55.2	142	23.0	12.7	44	7.1	3.9
Sidechain-Sidechain	224	20.0	74	33.0	6.6	14	6.2	1.2

<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	32	42	18	25	23	140	0.2	2.33	0.2	0.17
2	42	45	16	27	22	152	0.21	2.17	0.24	0.16
3	36	42	20	30	20	148	0.22	2.29	0.26	0.17
4	40	45	12	29	18	144	0.24	2.14	0.26	0.18
5	38	43	16	30	19	146	0.21	2.16	0.25	0.17
6	33	40	17	31	24	145	0.17	0.67	0.08	0.16
7	36	42	17	28	20	143	0.19	2.29	0.2	0.16
8	34	40	16	33	24	147	0.17	0.66	0.08	0.16
9	37	41	14	28	21	141	0.2	2.32	0.2	0.17
10	34	42	16	29	26	147	0.18	0.65	0.1	0.16

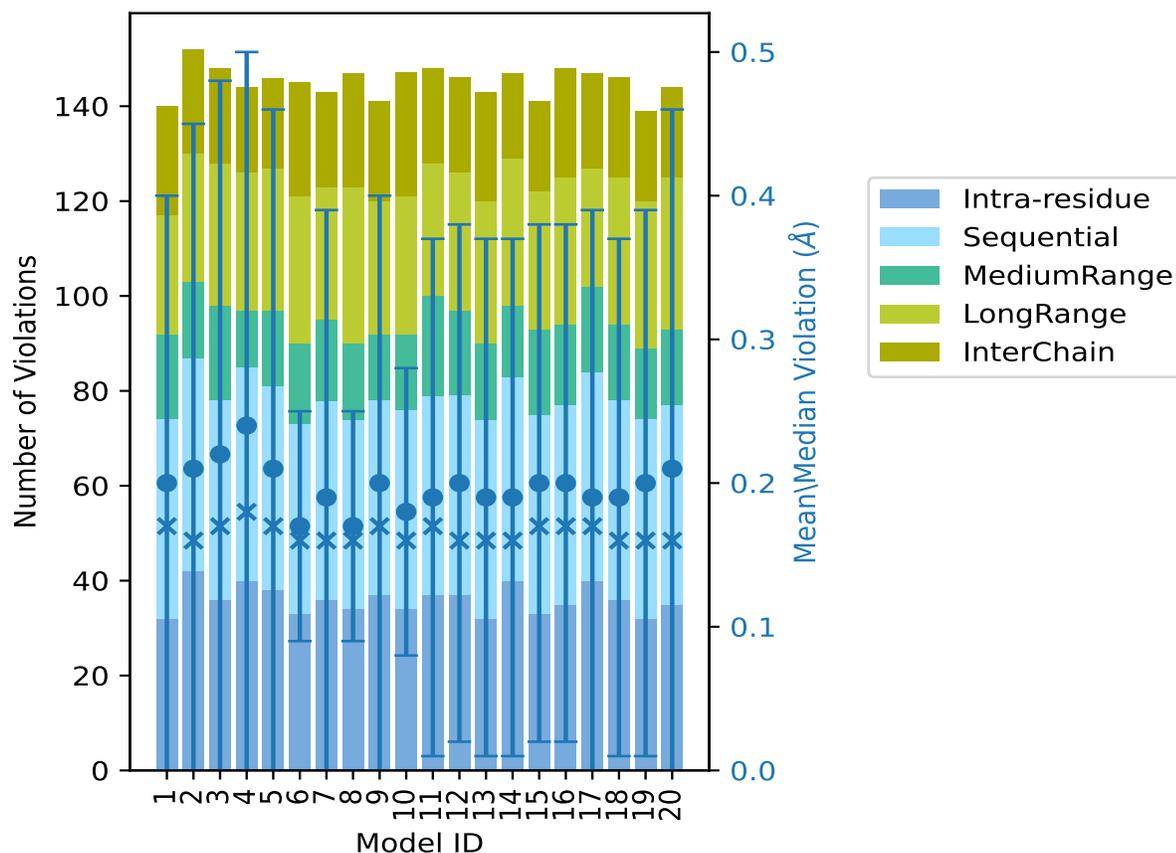
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Model ID	Number of violations					Total	Mean (Å)	Max (Å)	SD <sup>6</sup> (Å)	Median (Å)
	IR <sup>1</sup>	SQ <sup>2</sup>	MR <sup>3</sup>	LR <sup>4</sup>	IC <sup>5</sup>					
11	37	42	21	28	20	148	0.19	2.16	0.18	0.17
12	37	42	18	29	20	146	0.2	2.15	0.18	0.16
13	32	42	16	30	23	143	0.19	2.17	0.18	0.16
14	40	43	15	31	18	147	0.19	2.15	0.18	0.16
15	33	42	18	29	19	141	0.2	2.14	0.18	0.17
16	35	42	17	31	23	148	0.2	2.15	0.18	0.17
17	40	44	18	25	20	147	0.19	2.33	0.2	0.17
18	36	42	16	31	21	146	0.19	2.16	0.18	0.16
19	32	42	15	31	19	139	0.2	2.16	0.19	0.16
20	35	42	16	32	19	144	0.21	2.31	0.25	0.16

<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 [i](#)



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

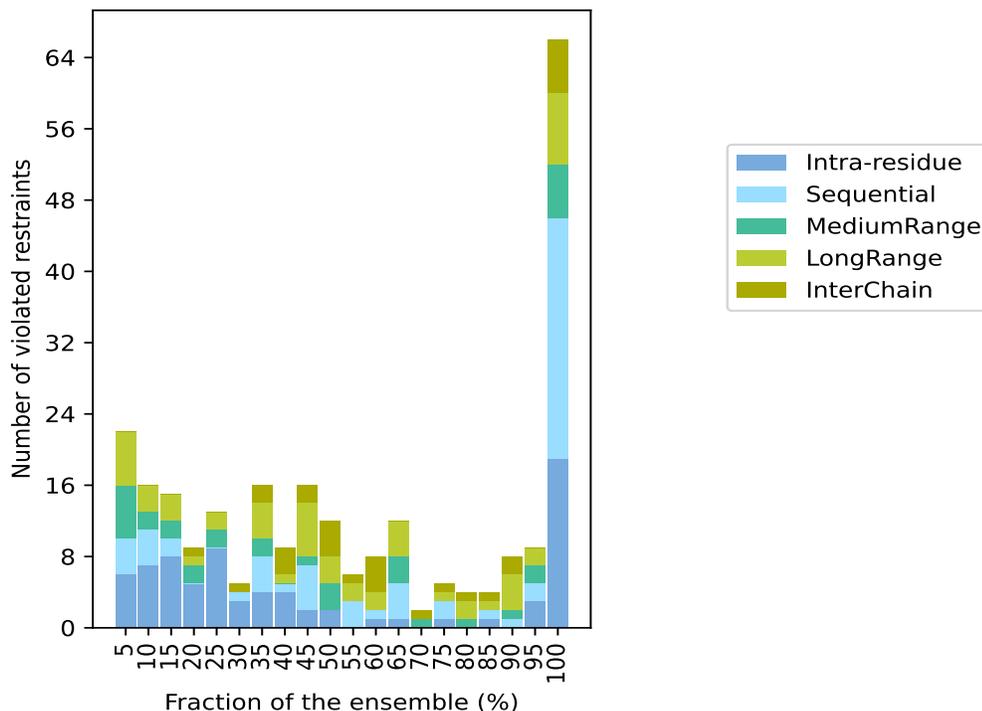
### 9.3 Distance violation statistics for the ensemble

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, 783(IR:402, SQ:202, MR:50, LR:81, IC:48) 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>	%
6	4	6	6	0	22	1	5.0
7	4	2	3	0	16	2	10.0
8	2	2	3	0	15	3	15.0
5	0	2	1	1	9	4	20.0
9	0	2	2	0	13	5	25.0
3	1	0	0	1	5	6	30.0
4	4	2	4	2	16	7	35.0
4	1	0	1	3	9	8	40.0
2	5	1	6	2	16	9	45.0
2	0	3	3	4	12	10	50.0
0	3	0	2	1	6	11	55.0
1	1	0	2	4	8	12	60.0
1	4	3	4	0	12	13	65.0
0	0	1	0	1	2	14	70.0
1	2	0	1	1	5	15	75.0
0	0	1	2	1	4	16	80.0
1	1	0	1	1	4	17	85.0
0	1	1	4	2	8	18	90.0
3	2	2	2	0	9	19	95.0
19	27	6	8	6	66	20	100.0

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

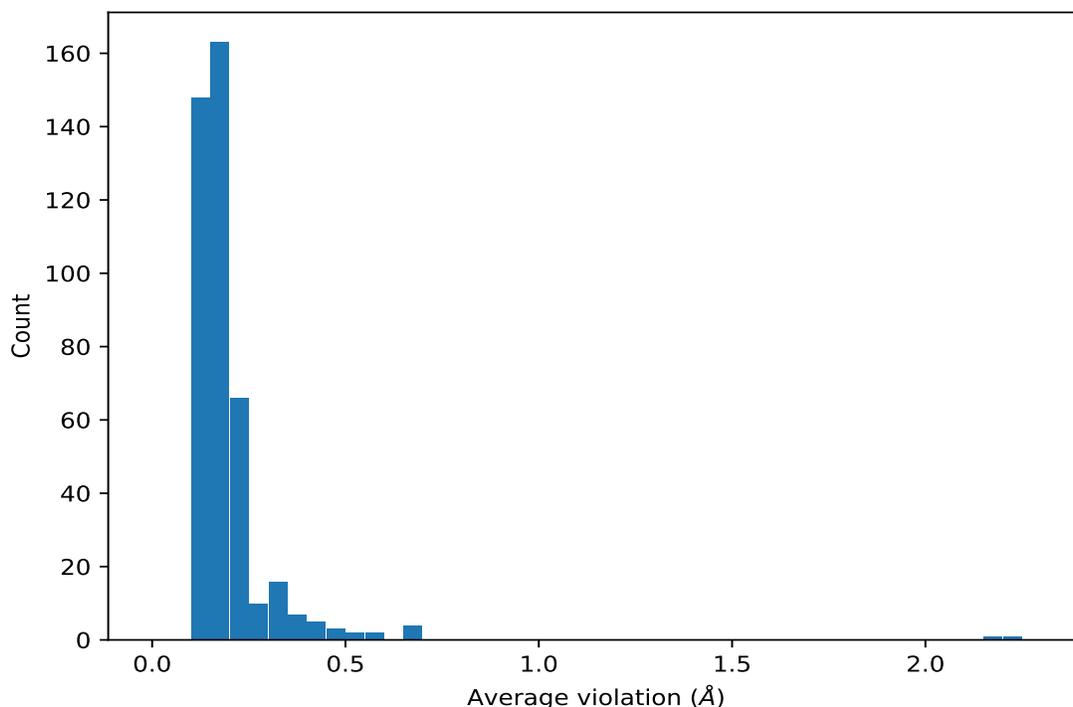
### 9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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

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

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



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

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

Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,562)	1:60:B:HIS:HD2	1:56:B:PHE:H	20	0.42	0.05	0.44
(1,81)	1:60:A:HIS:HD2	1:56:A:PHE:H	20	0.41	0.06	0.43
(1,322)	1:28:A:VAL:H	1:27:A:GLU:HB2	20	0.36	0.23	0.18
(1,322)	1:28:A:VAL:H	1:27:A:GLU:HB3	20	0.36	0.23	0.18
(1,803)	1:28:B:VAL:H	1:27:B:GLU:HB2	20	0.33	0.22	0.18
(1,803)	1:28:B:VAL:H	1:27:B:GLU:HB3	20	0.33	0.22	0.18
(1,463)	1:59:A:LYS:HB3	1:59:A:LYS:HG2	20	0.22	0.13	0.14
(1,463)	1:59:A:LYS:HB3	1:59:A:LYS:HG3	20	0.22	0.13	0.14
(1,34)	1:36:B:TYR:HE1	1:56:A:PHE:HD1	20	0.22	0.06	0.22
(1,34)	1:36:B:TYR:HE1	1:56:A:PHE:HD2	20	0.22	0.06	0.22
(1,34)	1:36:B:TYR:HE2	1:56:A:PHE:HD1	20	0.22	0.06	0.22
(1,34)	1:36:B:TYR:HE2	1:56:A:PHE:HD2	20	0.22	0.06	0.22
(1,133)	1:52:A:TYR:HB2	1:53:A:PRO:HA	20	0.22	0.01	0.22
(1,133)	1:52:A:TYR:HB3	1:53:A:PRO:HA	20	0.22	0.01	0.22
(1,927)	1:49:B:LEU:HD21	1:36:B:TYR:HD1	20	0.21	0.04	0.22
(1,927)	1:49:B:LEU:HD21	1:36:B:TYR:HD2	20	0.21	0.04	0.22

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,927)	1:49:B:LEU:HD22	1:36:B:TYR:HD1	20	0.21	0.04	0.22
(1,927)	1:49:B:LEU:HD22	1:36:B:TYR:HD2	20	0.21	0.04	0.22
(1,927)	1:49:B:LEU:HD23	1:36:B:TYR:HD1	20	0.21	0.04	0.22
(1,927)	1:49:B:LEU:HD23	1:36:B:TYR:HD2	20	0.21	0.04	0.22
(1,93)	1:49:A:LEU:HA	1:38:A:VAL:HB	20	0.21	0.05	0.21
(1,614)	1:52:B:TYR:HB2	1:53:B:PRO:HA	20	0.21	0.01	0.2
(1,614)	1:52:B:TYR:HB3	1:53:B:PRO:HA	20	0.21	0.01	0.2
(1,162)	1:42:A:LEU:HD21	1:25:A:CYS:HA	20	0.2	0.04	0.21
(1,162)	1:42:A:LEU:HD22	1:25:A:CYS:HA	20	0.2	0.04	0.21
(1,162)	1:42:A:LEU:HD23	1:25:A:CYS:HA	20	0.2	0.04	0.21
(1,722)	1:30:B:PHE:HZ	1:32:B:ALA:HA	20	0.2	0.03	0.2
(1,643)	1:42:B:LEU:HD21	1:25:B:CYS:HA	20	0.2	0.04	0.19
(1,643)	1:42:B:LEU:HD22	1:25:B:CYS:HA	20	0.2	0.04	0.19
(1,643)	1:42:B:LEU:HD23	1:25:B:CYS:HA	20	0.2	0.04	0.19
(1,22)	1:30:B:PHE:HD1	1:23:A:LEU:HG	20	0.2	0.03	0.2
(1,22)	1:30:B:PHE:HD2	1:23:A:LEU:HG	20	0.2	0.03	0.2
(1,944)	1:59:B:LYS:HB3	1:59:B:LYS:HG2	20	0.19	0.11	0.14
(1,944)	1:59:B:LYS:HB3	1:59:B:LYS:HG3	20	0.19	0.11	0.14
(1,574)	1:49:B:LEU:HA	1:38:B:VAL:HB	20	0.19	0.04	0.19
(1,678)	1:56:B:PHE:H	1:55:B:HIS:HB2	20	0.19	0.01	0.19
(1,197)	1:56:A:PHE:H	1:55:A:HIS:HB2	20	0.19	0.01	0.19
(1,571)	1:34:B:ALA:HA	1:36:B:TYR:HD1	20	0.19	0.05	0.18
(1,571)	1:34:B:ALA:HA	1:36:B:TYR:HD2	20	0.19	0.05	0.18
(1,326)	1:29:A:LEU:HA	1:29:A:LEU:HB3	20	0.19	0.0	0.19
(1,807)	1:29:B:LEU:HA	1:29:B:LEU:HB3	20	0.19	0.0	0.19
(1,602)	1:61:B:PHE:HB3	1:56:B:PHE:HD1	20	0.19	0.04	0.2
(1,602)	1:61:B:PHE:HB3	1:56:B:PHE:HD2	20	0.19	0.04	0.2
(1,77)	1:36:A:TYR:HE1	1:56:B:PHE:H	20	0.19	0.04	0.19
(1,77)	1:36:A:TYR:HE2	1:56:B:PHE:H	20	0.19	0.04	0.19
(1,21)	1:30:A:PHE:HD1	1:23:B:LEU:HG	20	0.18	0.03	0.19
(1,21)	1:30:A:PHE:HD2	1:23:B:LEU:HG	20	0.18	0.03	0.19
(1,240)	1:30:A:PHE:HE1	1:32:A:ALA:HA	20	0.18	0.03	0.19
(1,240)	1:30:A:PHE:HE2	1:32:A:ALA:HA	20	0.18	0.03	0.19
(1,842)	1:24:B:ARG:H	1:23:B:LEU:HB3	20	0.18	0.03	0.18
(1,926)	1:49:B:LEU:HD11	1:49:B:LEU:HB3	20	0.18	0.01	0.18
(1,926)	1:49:B:LEU:HD12	1:49:B:LEU:HB3	20	0.18	0.01	0.18
(1,926)	1:49:B:LEU:HD13	1:49:B:LEU:HB3	20	0.18	0.01	0.18
(1,446)	1:49:A:LEU:HD21	1:36:A:TYR:HD1	20	0.18	0.05	0.16
(1,446)	1:49:A:LEU:HD21	1:36:A:TYR:HD2	20	0.18	0.05	0.16
(1,446)	1:49:A:LEU:HD22	1:36:A:TYR:HD1	20	0.18	0.05	0.16
(1,446)	1:49:A:LEU:HD22	1:36:A:TYR:HD2	20	0.18	0.05	0.16
(1,446)	1:49:A:LEU:HD23	1:36:A:TYR:HD1	20	0.18	0.05	0.16

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,446)	1:49:A:LEU:HD23	1:36:A:TYR:HD2	20	0.18	0.05	0.16
(1,177)	1:30:A:PHE:H	1:29:A:LEU:HB3	20	0.18	0.01	0.18
(1,377)	1:42:A:LEU:HA	1:42:A:LEU:HB2	20	0.18	0.0	0.18
(1,279)	1:37:A:GLU:H	1:37:A:GLU:HG2	20	0.18	0.01	0.18
(1,279)	1:37:A:GLU:H	1:37:A:GLU:HG3	20	0.18	0.01	0.18
(1,858)	1:42:B:LEU:HA	1:42:B:LEU:HB2	20	0.17	0.0	0.17
(1,445)	1:49:A:LEU:HD11	1:49:A:LEU:HB3	20	0.17	0.01	0.17
(1,445)	1:49:A:LEU:HD12	1:49:A:LEU:HB3	20	0.17	0.01	0.17
(1,445)	1:49:A:LEU:HD13	1:49:A:LEU:HB3	20	0.17	0.01	0.17
(1,658)	1:30:B:PHE:H	1:29:B:LEU:HB3	20	0.17	0.0	0.17
(1,850)	1:27:B:GLU:H	1:26:B:GLY:HA3	20	0.17	0.01	0.17
(1,641)	1:38:B:VAL:HG11	1:37:B:GLU:HA	20	0.17	0.01	0.17
(1,641)	1:38:B:VAL:HG12	1:37:B:GLU:HA	20	0.17	0.01	0.17
(1,641)	1:38:B:VAL:HG13	1:37:B:GLU:HA	20	0.17	0.01	0.17
(1,760)	1:37:B:GLU:H	1:37:B:GLU:HG2	20	0.17	0.01	0.17
(1,760)	1:37:B:GLU:H	1:37:B:GLU:HG3	20	0.17	0.01	0.17
(1,90)	1:34:A:ALA:HA	1:36:A:TYR:HD1	20	0.17	0.04	0.16
(1,90)	1:34:A:ALA:HA	1:36:A:TYR:HD2	20	0.17	0.04	0.16
(1,160)	1:38:A:VAL:HG11	1:37:A:GLU:HA	20	0.17	0.01	0.17
(1,160)	1:38:A:VAL:HG12	1:37:A:GLU:HA	20	0.17	0.01	0.17
(1,160)	1:38:A:VAL:HG13	1:37:A:GLU:HA	20	0.17	0.01	0.17
(1,121)	1:61:A:PHE:HB3	1:56:A:PHE:HD1	20	0.17	0.04	0.16
(1,121)	1:61:A:PHE:HB3	1:56:A:PHE:HD2	20	0.17	0.04	0.16
(1,499)	1:34:A:ALA:H	1:34:A:ALA:HA	20	0.17	0.0	0.17
(1,980)	1:34:B:ALA:H	1:34:B:ALA:HA	20	0.17	0.0	0.17
(1,369)	1:27:A:GLU:H	1:26:A:GLY:HA3	20	0.17	0.02	0.17
(1,127)	1:59:A:LYS:H	1:58:A:LEU:HB3	20	0.16	0.02	0.16
(1,315)	1:54:A:GLU:H	1:54:A:GLU:HG2	20	0.16	0.01	0.16
(1,315)	1:54:A:GLU:H	1:54:A:GLU:HG3	20	0.16	0.01	0.16
(1,361)	1:24:A:ARG:H	1:23:A:LEU:HB3	20	0.16	0.02	0.16
(1,796)	1:54:B:GLU:H	1:54:B:GLU:HG2	20	0.16	0.0	0.16
(1,796)	1:54:B:GLU:H	1:54:B:GLU:HG3	20	0.16	0.0	0.16
(1,815)	1:48:B:PRO:HD2	1:47:B:LEU:HA	20	0.16	0.01	0.16
(1,608)	1:59:B:LYS:H	1:58:B:LEU:HB3	20	0.16	0.02	0.16
(1,334)	1:48:A:PRO:HD2	1:47:A:LEU:HA	20	0.16	0.01	0.16
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD11	20	0.16	0.02	0.15
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD12	20	0.16	0.02	0.15
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD13	20	0.16	0.02	0.15
(1,44)	1:29:A:LEU:HD11	1:25:B:CYS:H	20	0.16	0.01	0.16
(1,44)	1:29:A:LEU:HD12	1:25:B:CYS:H	20	0.16	0.01	0.16
(1,44)	1:29:A:LEU:HD13	1:25:B:CYS:H	20	0.16	0.01	0.16
(1,44)	1:29:A:LEU:HD21	1:25:B:CYS:H	20	0.16	0.01	0.16

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,44)	1:29:A:LEU:HD22	1:25:B:CYS:H	20	0.16	0.01	0.16
(1,44)	1:29:A:LEU:HD23	1:25:B:CYS:H	20	0.16	0.01	0.16
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD11	20	0.15	0.02	0.16
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD12	20	0.15	0.02	0.16
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD13	20	0.15	0.02	0.16
(1,933)	1:54:B:GLU:HB3	1:54:B:GLU:HG2	20	0.15	0.01	0.15
(1,933)	1:54:B:GLU:HB3	1:54:B:GLU:HG3	20	0.15	0.01	0.15
(1,984)	1:35:B:SER:H	1:36:B:TYR:H	20	0.15	0.01	0.15
(1,503)	1:35:A:SER:H	1:36:A:TYR:H	20	0.15	0.01	0.15
(1,43)	1:29:B:LEU:HD11	1:25:A:CYS:H	20	0.15	0.01	0.15
(1,43)	1:29:B:LEU:HD12	1:25:A:CYS:H	20	0.15	0.01	0.15
(1,43)	1:29:B:LEU:HD13	1:25:A:CYS:H	20	0.15	0.01	0.15
(1,43)	1:29:B:LEU:HD21	1:25:A:CYS:H	20	0.15	0.01	0.15
(1,43)	1:29:B:LEU:HD22	1:25:A:CYS:H	20	0.15	0.01	0.15
(1,43)	1:29:B:LEU:HD23	1:25:A:CYS:H	20	0.15	0.01	0.15
(1,491)	1:30:A:PHE:H	1:29:A:LEU:HB2	20	0.15	0.01	0.15
(1,497)	1:32:A:ALA:H	1:31:A:SER:HB3	20	0.14	0.02	0.15
(1,972)	1:30:B:PHE:H	1:29:B:LEU:HB2	20	0.14	0.01	0.14
(1,465)	1:59:A:LYS:HE3	1:59:A:LYS:HG2	20	0.14	0.01	0.14
(1,465)	1:59:A:LYS:HE3	1:59:A:LYS:HG3	20	0.14	0.01	0.14
(1,946)	1:59:B:LYS:HE3	1:59:B:LYS:HG2	20	0.14	0.01	0.14
(1,946)	1:59:B:LYS:HE3	1:59:B:LYS:HG3	20	0.14	0.01	0.14
(1,350)	1:22:A:ASN:HA	1:22:A:ASN:HB2	20	0.11	0.0	0.11
(1,831)	1:22:B:ASN:HA	1:22:B:ASN:HB2	20	0.11	0.0	0.11
(1,1019)	1:52:B:TYR:H	1:51:B:GLY:HA2	20	0.11	0.0	0.11
(1,538)	1:52:A:TYR:H	1:51:A:GLY:HA2	20	0.11	0.0	0.11
(1,241)	1:30:A:PHE:HZ	1:32:A:ALA:HA	19	0.2	0.03	0.21
(1,721)	1:30:B:PHE:HE1	1:32:B:ALA:HA	19	0.18	0.03	0.18
(1,721)	1:30:B:PHE:HE2	1:32:B:ALA:HA	19	0.18	0.03	0.18
(1,809)	1:57:B:ARG:HG2	1:57:B:ARG:HA	19	0.15	0.02	0.16
(1,978)	1:32:B:ALA:H	1:31:B:SER:HB3	19	0.15	0.02	0.16
(1,319)	1:47:A:LEU:H	1:46:A:ARG:HG2	19	0.15	0.04	0.14
(1,319)	1:47:A:LEU:H	1:46:A:ARG:HG3	19	0.15	0.04	0.14
(1,452)	1:54:A:GLU:HB3	1:54:A:GLU:HG2	19	0.15	0.01	0.15
(1,452)	1:54:A:GLU:HB3	1:54:A:GLU:HG3	19	0.15	0.01	0.15
(1,328)	1:57:A:ARG:HG2	1:57:A:ARG:HA	19	0.15	0.03	0.14
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD11	19	0.14	0.02	0.13
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD12	19	0.14	0.02	0.13
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD13	19	0.14	0.02	0.13
(1,729)	1:56:B:PHE:HE1	1:61:B:PHE:HB3	19	0.14	0.02	0.14
(1,729)	1:56:B:PHE:HE2	1:61:B:PHE:HB3	19	0.14	0.02	0.14
(1,575)	1:37:B:GLU:HA	1:48:B:PRO:HA	18	0.18	0.03	0.18

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,78)	1:36:B:TYR:HE1	1:56:A:PHE:H	18	0.17	0.04	0.15
(1,78)	1:36:B:TYR:HE2	1:56:A:PHE:H	18	0.17	0.04	0.15
(1,248)	1:56:A:PHE:HE1	1:61:A:PHE:HB3	18	0.16	0.03	0.16
(1,248)	1:56:A:PHE:HE2	1:61:A:PHE:HB3	18	0.16	0.03	0.16
(1,243)	1:61:A:PHE:H	1:57:A:ARG:HA	18	0.15	0.03	0.16
(1,94)	1:37:A:GLU:HA	1:48:A:PRO:HA	18	0.15	0.04	0.15
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD11	18	0.14	0.02	0.14
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD12	18	0.14	0.02	0.14
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD13	18	0.14	0.02	0.14
(1,58)	1:26:B:GLY:H	1:28:A:VAL:H	18	0.12	0.01	0.12
(1,1029)	1:60:B:HIS:H	1:59:B:LYS:HA	18	0.11	0.0	0.11
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD21	17	0.21	0.07	0.2
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD22	17	0.21	0.07	0.2
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD23	17	0.21	0.07	0.2
(1,548)	1:60:A:HIS:H	1:59:A:LYS:HA	17	0.12	0.01	0.12
(1,57)	1:26:A:GLY:H	1:28:B:VAL:H	17	0.11	0.01	0.11
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD11	17	0.11	0.01	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD12	17	0.11	0.01	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD13	17	0.11	0.01	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD21	17	0.11	0.01	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD22	17	0.11	0.01	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD23	17	0.11	0.01	0.1
(1,33)	1:36:A:TYR:HE1	1:56:B:PHE:HD1	16	0.19	0.05	0.2
(1,33)	1:36:A:TYR:HE1	1:56:B:PHE:HD2	16	0.19	0.05	0.2
(1,33)	1:36:A:TYR:HE2	1:56:B:PHE:HD1	16	0.19	0.05	0.2
(1,33)	1:36:A:TYR:HE2	1:56:B:PHE:HD2	16	0.19	0.05	0.2
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD21	16	0.17	0.05	0.16
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD22	16	0.17	0.05	0.16
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD23	16	0.17	0.05	0.16
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD11	16	0.17	0.04	0.17
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD12	16	0.17	0.04	0.17
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD13	16	0.17	0.04	0.17
(1,153)	1:35:A:SER:HB2	1:31:A:SER:HB2	16	0.13	0.01	0.13
(1,708)	1:62:B:THR:H	1:61:B:PHE:HA	15	0.47	0.13	0.48
(1,800)	1:47:B:LEU:H	1:46:B:ARG:HG2	15	0.16	0.03	0.17
(1,800)	1:47:B:LEU:H	1:46:B:ARG:HG3	15	0.16	0.03	0.17
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD11	15	0.15	0.04	0.15
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD12	15	0.15	0.04	0.15
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD13	15	0.15	0.04	0.15
(1,76)	1:22:B:ASN:H	1:32:A:ALA:H	15	0.13	0.02	0.13
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD11	15	0.11	0.01	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD12	15	0.11	0.01	0.1

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD13	15	0.11	0.01	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD21	15	0.11	0.01	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD22	15	0.11	0.01	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD23	15	0.11	0.01	0.1
(1,24)	1:30:B:PHE:HE1	1:61:A:PHE:HZ	14	0.24	0.07	0.24
(1,24)	1:30:B:PHE:HE2	1:61:A:PHE:HZ	14	0.24	0.07	0.24
(1,932)	1:52:B:TYR:HA	1:55:B:HIS:HB2	14	0.2	0.05	0.22
(1,174)	1:44:A:ASP:H	1:40:A:CYS:HB2	13	2.21	0.08	2.16
(1,223)	1:43:A:CYS:H	1:44:A:ASP:H	13	0.54	0.01	0.54
(1,526)	1:45:A:GLN:H	1:45:A:GLN:HA	13	0.39	0.01	0.39
(1,287)	1:44:A:ASP:H	1:45:A:GLN:H	13	0.32	0.02	0.31
(1,294)	1:45:A:GLN:H	1:40:A:CYS:HB2	13	0.2	0.03	0.21
(1,518)	1:41:A:LEU:H	1:40:A:CYS:HB2	13	0.2	0.02	0.19
(1,530)	1:47:A:LEU:H	1:39:A:SER:HA	13	0.19	0.03	0.19
(1,730)	1:42:B:LEU:HD11	1:56:B:PHE:HZ	13	0.18	0.04	0.18
(1,730)	1:42:B:LEU:HD12	1:56:B:PHE:HZ	13	0.18	0.04	0.18
(1,730)	1:42:B:LEU:HD13	1:56:B:PHE:HZ	13	0.18	0.04	0.18
(1,599)	1:61:B:PHE:HB3	1:57:B:ARG:HA	13	0.17	0.06	0.15
(1,969)	1:28:B:VAL:H	1:27:B:GLU:HG2	13	0.16	0.07	0.13
(1,969)	1:28:B:VAL:H	1:27:B:GLU:HG3	13	0.16	0.07	0.13
(1,634)	1:35:B:SER:HB2	1:31:B:SER:HB2	13	0.13	0.02	0.13
(1,428)	1:25:A:CYS:HB2	1:42:A:LEU:HD11	13	0.12	0.02	0.11
(1,428)	1:25:A:CYS:HB2	1:42:A:LEU:HD12	13	0.12	0.02	0.11
(1,428)	1:25:A:CYS:HB2	1:42:A:LEU:HD13	13	0.12	0.02	0.11
(1,380)	1:44:A:ASP:H	1:44:A:ASP:HB2	12	0.27	0.01	0.28
(1,249)	1:42:A:LEU:HD11	1:56:A:PHE:HZ	12	0.19	0.07	0.18
(1,249)	1:42:A:LEU:HD12	1:56:A:PHE:HZ	12	0.19	0.07	0.18
(1,249)	1:42:A:LEU:HD13	1:56:A:PHE:HZ	12	0.19	0.07	0.18
(1,488)	1:28:A:VAL:H	1:27:A:GLU:HG2	12	0.18	0.1	0.13
(1,488)	1:28:A:VAL:H	1:27:A:GLU:HG3	12	0.18	0.1	0.13
(1,72)	1:32:B:ALA:H	1:20:A:TYR:HB3	12	0.16	0.06	0.14
(1,3)	1:49:A:LEU:HD11	1:50:B:ASP:HA	12	0.14	0.02	0.15
(1,3)	1:49:A:LEU:HD12	1:50:B:ASP:HA	12	0.14	0.02	0.15
(1,3)	1:49:A:LEU:HD13	1:50:B:ASP:HA	12	0.14	0.02	0.15
(1,71)	1:32:A:ALA:H	1:20:B:TYR:HB3	12	0.14	0.05	0.12
(1,42)	1:22:B:ASN:HB2	1:29:A:LEU:HD21	12	0.13	0.03	0.12
(1,42)	1:22:B:ASN:HB2	1:29:A:LEU:HD22	12	0.13	0.03	0.12
(1,42)	1:22:B:ASN:HB2	1:29:A:LEU:HD23	12	0.13	0.03	0.12
(1,909)	1:25:B:CYS:HB2	1:42:B:LEU:HD11	12	0.12	0.02	0.12
(1,909)	1:25:B:CYS:HB2	1:42:B:LEU:HD12	12	0.12	0.02	0.12
(1,909)	1:25:B:CYS:HB2	1:42:B:LEU:HD13	12	0.12	0.02	0.12
(1,339)	1:27:A:GLU:HG2	1:41:A:LEU:HD21	11	0.31	0.08	0.33

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,339)	1:27:A:GLU:HG2	1:41:A:LEU:HD22	11	0.31	0.08	0.33
(1,339)	1:27:A:GLU:HG2	1:41:A:LEU:HD23	11	0.31	0.08	0.33
(1,339)	1:27:A:GLU:HG3	1:41:A:LEU:HD21	11	0.31	0.08	0.33
(1,339)	1:27:A:GLU:HG3	1:41:A:LEU:HD22	11	0.31	0.08	0.33
(1,339)	1:27:A:GLU:HG3	1:41:A:LEU:HD23	11	0.31	0.08	0.33
(1,670)	1:56:B:PHE:H	1:47:B:LEU:HD11	11	0.17	0.01	0.17
(1,670)	1:56:B:PHE:H	1:47:B:LEU:HD12	11	0.17	0.01	0.17
(1,670)	1:56:B:PHE:H	1:47:B:LEU:HD13	11	0.17	0.01	0.17
(1,182)	1:19:A:GLY:H	1:20:A:TYR:H	11	0.17	0.03	0.17
(1,702)	1:42:B:LEU:H	1:43:B:CYS:H	11	0.16	0.0	0.16
(1,46)	1:49:B:LEU:HD11	1:53:A:PRO:HD2	11	0.13	0.07	0.11
(1,46)	1:49:B:LEU:HD12	1:53:A:PRO:HD2	11	0.13	0.07	0.11
(1,46)	1:49:B:LEU:HD13	1:53:A:PRO:HD2	11	0.13	0.07	0.11
(1,913)	1:45:B:GLN:HB2	1:46:B:ARG:H	11	0.13	0.0	0.13
(1,913)	1:45:B:GLN:HB3	1:46:B:ARG:H	11	0.13	0.0	0.13
(2,5)	1:43:B:CYS:SG	2:101:B:ZN:ZN	11	0.12	0.01	0.11
(1,1040)	1:62:B:THR:H	1:62:B:THR:HG21	10	0.23	0.04	0.22
(1,1040)	1:62:B:THR:H	1:62:B:THR:HG22	10	0.23	0.04	0.22
(1,1040)	1:62:B:THR:H	1:62:B:THR:HG23	10	0.23	0.04	0.22
(1,451)	1:52:A:TYR:HA	1:55:A:HIS:HB2	10	0.17	0.05	0.2
(1,938)	1:57:B:ARG:HD2	1:57:B:ARG:HG3	10	0.17	0.01	0.17
(1,85)	1:20:A:TYR:HE1	1:61:A:PHE:HA	10	0.17	0.04	0.16
(1,85)	1:20:A:TYR:HE2	1:61:A:PHE:HA	10	0.17	0.04	0.16
(1,246)	1:40:A:CYS:HB3	1:52:A:TYR:HE1	10	0.17	0.02	0.18
(1,246)	1:40:A:CYS:HB3	1:52:A:TYR:HE2	10	0.17	0.02	0.18
(1,45)	1:49:A:LEU:HD11	1:53:B:PRO:HD2	10	0.16	0.09	0.11
(1,45)	1:49:A:LEU:HD12	1:53:B:PRO:HD2	10	0.16	0.09	0.11
(1,45)	1:49:A:LEU:HD13	1:53:B:PRO:HD2	10	0.16	0.09	0.11
(1,178)	1:27:A:GLU:H	1:41:A:LEU:HD21	10	0.16	0.05	0.2
(1,178)	1:27:A:GLU:H	1:41:A:LEU:HD22	10	0.16	0.05	0.2
(1,178)	1:27:A:GLU:H	1:41:A:LEU:HD23	10	0.16	0.05	0.2
(1,75)	1:22:A:ASN:H	1:32:B:ALA:H	10	0.15	0.04	0.15
(1,70)	1:32:B:ALA:H	1:20:A:TYR:HB2	10	0.14	0.03	0.13
(1,720)	1:30:B:PHE:HE1	1:34:B:ALA:HA	10	0.12	0.01	0.12
(1,720)	1:30:B:PHE:HE2	1:34:B:ALA:HA	10	0.12	0.01	0.12
(2,6)	1:40:B:CYS:SG	2:101:B:ZN:ZN	10	0.12	0.02	0.11
(1,54)	1:25:B:CYS:H	1:28:A:VAL:HB	10	0.12	0.01	0.11
(1,239)	1:30:A:PHE:HE1	1:34:A:ALA:HA	10	0.11	0.01	0.12
(1,239)	1:30:A:PHE:HE2	1:34:A:ALA:HA	10	0.11	0.01	0.12
(1,655)	1:44:B:ASP:H	1:40:B:CYS:HB2	9	2.18	0.06	2.16
(1,704)	1:43:B:CYS:H	1:44:B:ASP:H	9	0.54	0.01	0.54
(1,640)	1:21:B:HIS:HB2	1:21:B:HIS:HA	9	0.4	0.0	0.4

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1007)	1:45:B:GLN:H	1:45:B:GLN:HA	9	0.39	0.01	0.39
(1,768)	1:44:B:ASP:H	1:45:B:GLN:H	9	0.32	0.02	0.31
(1,820)	1:27:B:GLU:HG2	1:41:B:LEU:HD21	9	0.32	0.09	0.36
(1,820)	1:27:B:GLU:HG2	1:41:B:LEU:HD22	9	0.32	0.09	0.36
(1,820)	1:27:B:GLU:HG2	1:41:B:LEU:HD23	9	0.32	0.09	0.36
(1,820)	1:27:B:GLU:HG3	1:41:B:LEU:HD21	9	0.32	0.09	0.36
(1,820)	1:27:B:GLU:HG3	1:41:B:LEU:HD22	9	0.32	0.09	0.36
(1,820)	1:27:B:GLU:HG3	1:41:B:LEU:HD23	9	0.32	0.09	0.36
(1,775)	1:45:B:GLN:H	1:40:B:CYS:HB2	9	0.2	0.03	0.21
(1,999)	1:41:B:LEU:H	1:40:B:CYS:HB2	9	0.2	0.02	0.19
(1,375)	1:43:A:CYS:H	1:42:A:LEU:HB3	9	0.2	0.01	0.2
(1,1011)	1:47:B:LEU:H	1:39:B:SER:HA	9	0.19	0.02	0.18
(1,663)	1:19:B:GLY:H	1:20:B:TYR:H	9	0.17	0.04	0.19
(1,727)	1:40:B:CYS:HB3	1:52:B:TYR:HE1	9	0.15	0.02	0.15
(1,727)	1:40:B:CYS:HB3	1:52:B:TYR:HE2	9	0.15	0.02	0.15
(1,69)	1:32:A:ALA:H	1:20:B:TYR:HB2	9	0.14	0.05	0.12
(1,146)	1:39:A:SER:HA	1:46:A:ARG:HA	9	0.13	0.03	0.11
(1,625)	1:42:B:LEU:HD11	1:25:B:CYS:HA	9	0.12	0.02	0.11
(1,625)	1:42:B:LEU:HD12	1:25:B:CYS:HA	9	0.12	0.02	0.11
(1,625)	1:42:B:LEU:HD13	1:25:B:CYS:HA	9	0.12	0.02	0.11
(1,41)	1:22:A:ASN:HB2	1:29:B:LEU:HD21	9	0.12	0.02	0.11
(1,41)	1:22:A:ASN:HB2	1:29:B:LEU:HD22	9	0.12	0.02	0.11
(1,41)	1:22:A:ASN:HB2	1:29:B:LEU:HD23	9	0.12	0.02	0.11
(1,227)	1:62:A:THR:H	1:61:A:PHE:HA	8	0.26	0.12	0.19
(1,23)	1:30:A:PHE:HE1	1:61:B:PHE:HZ	8	0.22	0.07	0.22
(1,23)	1:30:A:PHE:HE2	1:61:B:PHE:HZ	8	0.22	0.07	0.22
(1,457)	1:57:A:ARG:HD2	1:57:A:ARG:HG3	8	0.18	0.0	0.18
(1,19)	1:21:A:HIS:HA	1:31:B:SER:HA	8	0.14	0.05	0.12
(1,144)	1:42:A:LEU:HD11	1:25:A:CYS:HA	8	0.14	0.03	0.12
(1,144)	1:42:A:LEU:HD12	1:25:A:CYS:HA	8	0.14	0.03	0.12
(1,144)	1:42:A:LEU:HD13	1:25:A:CYS:HA	8	0.14	0.03	0.12
(1,456)	1:57:A:ARG:HD3	1:57:A:ARG:HG2	8	0.12	0.0	0.12
(1,1039)	1:62:B:THR:H	1:62:B:THR:HB	8	0.11	0.01	0.12
(1,13)	1:29:B:LEU:HD21	1:24:A:ARG:HA	8	0.11	0.01	0.11
(1,13)	1:29:B:LEU:HD22	1:24:A:ARG:HA	8	0.11	0.01	0.11
(1,13)	1:29:B:LEU:HD23	1:24:A:ARG:HA	8	0.11	0.01	0.11
(1,464)	1:59:A:LYS:HE2	1:59:A:LYS:HG2	8	0.11	0.01	0.11
(1,464)	1:59:A:LYS:HE2	1:59:A:LYS:HG3	8	0.11	0.01	0.11
(1,159)	1:21:A:HIS:HB2	1:21:A:HIS:HA	7	0.4	0.0	0.4
(1,861)	1:44:B:ASP:H	1:44:B:ASP:HB2	7	0.27	0.01	0.28
(1,635)	1:35:B:SER:HB3	1:31:B:SER:HB2	7	0.24	0.01	0.25
(1,856)	1:43:B:CYS:H	1:42:B:LEU:HB3	7	0.2	0.01	0.2

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,189)	1:56:A:PHE:H	1:47:A:LEU:HD11	7	0.18	0.01	0.18
(1,189)	1:56:A:PHE:H	1:47:A:LEU:HD12	7	0.18	0.01	0.18
(1,189)	1:56:A:PHE:H	1:47:A:LEU:HD13	7	0.18	0.01	0.18
(1,221)	1:42:A:LEU:H	1:43:A:CYS:H	7	0.16	0.01	0.16
(1,724)	1:61:B:PHE:H	1:57:B:ARG:HA	7	0.15	0.02	0.16
(1,806)	1:41:B:LEU:HB2	1:25:B:CYS:HA	7	0.15	0.03	0.15
(1,325)	1:41:A:LEU:HB2	1:25:A:CYS:HA	7	0.14	0.03	0.15
(1,432)	1:45:A:GLN:HB2	1:46:A:ARG:H	7	0.14	0.01	0.14
(1,432)	1:45:A:GLN:HB3	1:46:A:ARG:H	7	0.14	0.01	0.14
(1,4)	1:49:B:LEU:HD11	1:50:A:ASP:HA	7	0.14	0.02	0.14
(1,4)	1:49:B:LEU:HD12	1:50:A:ASP:HA	7	0.14	0.02	0.14
(1,4)	1:49:B:LEU:HD13	1:50:A:ASP:HA	7	0.14	0.02	0.14
(1,20)	1:21:B:HIS:HA	1:31:A:SER:HA	7	0.14	0.03	0.12
(2,1)	1:43:A:CYS:SG	2:101:A:ZN:ZN	7	0.13	0.01	0.12
(1,627)	1:39:B:SER:HA	1:46:B:ARG:HA	7	0.12	0.02	0.11
(2,2)	1:40:A:CYS:SG	2:101:A:ZN:ZN	7	0.12	0.02	0.12
(1,593)	1:55:B:HIS:HD2	1:56:B:PHE:HA	7	0.12	0.01	0.12
(1,937)	1:57:B:ARG:HD3	1:57:B:ARG:HG2	7	0.12	0.0	0.12
(1,945)	1:59:B:LYS:HE2	1:59:B:LYS:HG2	7	0.1	0.0	0.1
(1,945)	1:59:B:LYS:HE2	1:59:B:LYS:HG3	7	0.1	0.0	0.1
(1,330)	1:62:A:THR:HA	1:62:A:THR:HG21	6	0.29	0.0	0.29
(1,330)	1:62:A:THR:HA	1:62:A:THR:HG22	6	0.29	0.0	0.29
(1,330)	1:62:A:THR:HA	1:62:A:THR:HG23	6	0.29	0.0	0.29
(1,164)	1:59:A:LYS:HD2	1:59:A:LYS:HA	6	0.21	0.03	0.2
(1,164)	1:59:A:LYS:HD3	1:59:A:LYS:HA	6	0.21	0.03	0.2
(1,112)	1:55:A:HIS:HD2	1:56:A:PHE:HA	6	0.13	0.01	0.13
(1,11)	1:29:A:LEU:HD21	1:24:B:ARG:HA	6	0.12	0.01	0.12
(1,11)	1:29:A:LEU:HD22	1:24:B:ARG:HA	6	0.12	0.01	0.12
(1,11)	1:29:A:LEU:HD23	1:24:B:ARG:HA	6	0.12	0.01	0.12
(1,957)	1:63:B:ASN:HA	1:63:B:ASN:HB3	6	0.11	0.01	0.11
(1,431)	1:44:A:ASP:HB2	1:44:A:ASP:HA	5	0.38	0.0	0.38
(1,912)	1:44:B:ASP:HB2	1:44:B:ASP:HA	5	0.38	0.0	0.38
(1,343)	1:21:A:HIS:HD2	1:21:A:HIS:HB3	5	0.24	0.03	0.26
(1,824)	1:21:B:HIS:HD2	1:21:B:HIS:HB3	5	0.23	0.06	0.26
(1,566)	1:20:B:TYR:HE1	1:61:B:PHE:HA	5	0.21	0.06	0.21
(1,566)	1:20:B:TYR:HE2	1:61:B:PHE:HA	5	0.21	0.06	0.21
(1,825)	1:21:B:HIS:HD2	1:21:B:HIS:HB2	5	0.21	0.03	0.2
(1,118)	1:61:A:PHE:HB3	1:57:A:ARG:HA	5	0.2	0.04	0.19
(1,659)	1:27:B:GLU:H	1:41:B:LEU:HD21	5	0.2	0.01	0.2
(1,659)	1:27:B:GLU:H	1:41:B:LEU:HD22	5	0.2	0.01	0.2
(1,659)	1:27:B:GLU:H	1:41:B:LEU:HD23	5	0.2	0.01	0.2
(1,344)	1:21:A:HIS:HD2	1:21:A:HIS:HB2	5	0.2	0.03	0.19

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,848)	1:35:B:SER:H	1:35:B:SER:HB3	5	0.12	0.0	0.12
(1,108)	1:56:A:PHE:HE1	1:60:A:HIS:HD2	5	0.11	0.0	0.11
(1,108)	1:56:A:PHE:HE2	1:60:A:HIS:HD2	5	0.11	0.0	0.11
(1,305)	1:38:A:VAL:H	1:38:A:VAL:HG11	5	0.11	0.01	0.11
(1,305)	1:38:A:VAL:H	1:38:A:VAL:HG12	5	0.11	0.01	0.11
(1,305)	1:38:A:VAL:H	1:38:A:VAL:HG13	5	0.11	0.01	0.11
(1,786)	1:38:B:VAL:H	1:38:B:VAL:HG11	5	0.1	0.0	0.1
(1,786)	1:38:B:VAL:H	1:38:B:VAL:HG12	5	0.1	0.0	0.1
(1,786)	1:38:B:VAL:H	1:38:B:VAL:HG13	5	0.1	0.0	0.1
(1,811)	1:62:B:THR:HA	1:62:B:THR:HG21	4	0.29	0.0	0.29
(1,811)	1:62:B:THR:HA	1:62:B:THR:HG22	4	0.29	0.0	0.29
(1,811)	1:62:B:THR:HA	1:62:B:THR:HG23	4	0.29	0.0	0.29
(1,154)	1:35:A:SER:HB3	1:31:A:SER:HB2	4	0.26	0.01	0.26
(1,645)	1:59:B:LYS:HD2	1:59:B:LYS:HA	4	0.17	0.03	0.17
(1,645)	1:59:B:LYS:HD3	1:59:B:LYS:HA	4	0.17	0.03	0.17
(1,244)	1:60:A:HIS:H	1:57:A:ARG:HA	4	0.16	0.04	0.18
(1,193)	1:55:A:HIS:HD2	1:55:A:HIS:HB2	4	0.15	0.04	0.14
(1,110)	1:56:A:PHE:HE1	1:25:A:CYS:HA	4	0.14	0.02	0.14
(1,110)	1:56:A:PHE:HE2	1:25:A:CYS:HA	4	0.14	0.02	0.14
(1,367)	1:35:A:SER:H	1:35:A:SER:HB3	4	0.12	0.0	0.12
(1,53)	1:25:A:CYS:H	1:28:B:VAL:HB	4	0.11	0.01	0.11
(1,899)	1:37:B:GLU:HB3	1:37:B:GLU:HG2	4	0.1	0.0	0.1
(1,899)	1:37:B:GLU:HB3	1:37:B:GLU:HG3	4	0.1	0.0	0.1
(1,374)	1:27:A:GLU:HG2	1:27:A:GLU:HA	3	0.65	0.0	0.65
(1,374)	1:27:A:GLU:HG3	1:27:A:GLU:HA	3	0.65	0.0	0.65
(1,405)	1:57:A:ARG:HD2	1:57:A:ARG:HG2	3	0.48	0.0	0.48
(1,886)	1:57:B:ARG:HD2	1:57:B:ARG:HG2	3	0.48	0.0	0.48
(1,382)	1:45:A:GLN:HA	1:45:A:GLN:HG3	3	0.37	0.37	0.11
(1,956)	1:63:B:ASN:HB2	1:63:B:ASN:HA	3	0.22	0.01	0.22
(1,470)	1:60:A:HIS:HB3	1:60:A:HIS:HD2	3	0.2	0.0	0.2
(1,725)	1:60:B:HIS:H	1:57:B:ARG:HA	3	0.13	0.02	0.12
(1,543)	1:58:A:LEU:H	1:57:A:ARG:HB2	3	0.13	0.01	0.12
(1,544)	1:58:A:LEU:H	1:58:A:LEU:HA	3	0.12	0.0	0.12
(1,589)	1:56:B:PHE:HE1	1:60:B:HIS:HD2	3	0.11	0.01	0.11
(1,589)	1:56:B:PHE:HE2	1:60:B:HIS:HD2	3	0.11	0.01	0.11
(1,453)	1:47:A:LEU:HD11	1:55:A:HIS:HB3	3	0.11	0.01	0.11
(1,453)	1:47:A:LEU:HD12	1:55:A:HIS:HB3	3	0.11	0.01	0.11
(1,453)	1:47:A:LEU:HD13	1:55:A:HIS:HB3	3	0.11	0.01	0.11
(1,476)	1:63:A:ASN:HA	1:63:A:ASN:HB3	3	0.11	0.01	0.1
(1,651)	1:55:B:HIS:H	1:47:B:LEU:HD11	3	0.11	0.0	0.11
(1,651)	1:55:B:HIS:H	1:47:B:LEU:HD12	3	0.11	0.0	0.11
(1,651)	1:55:B:HIS:H	1:47:B:LEU:HD13	3	0.11	0.0	0.11

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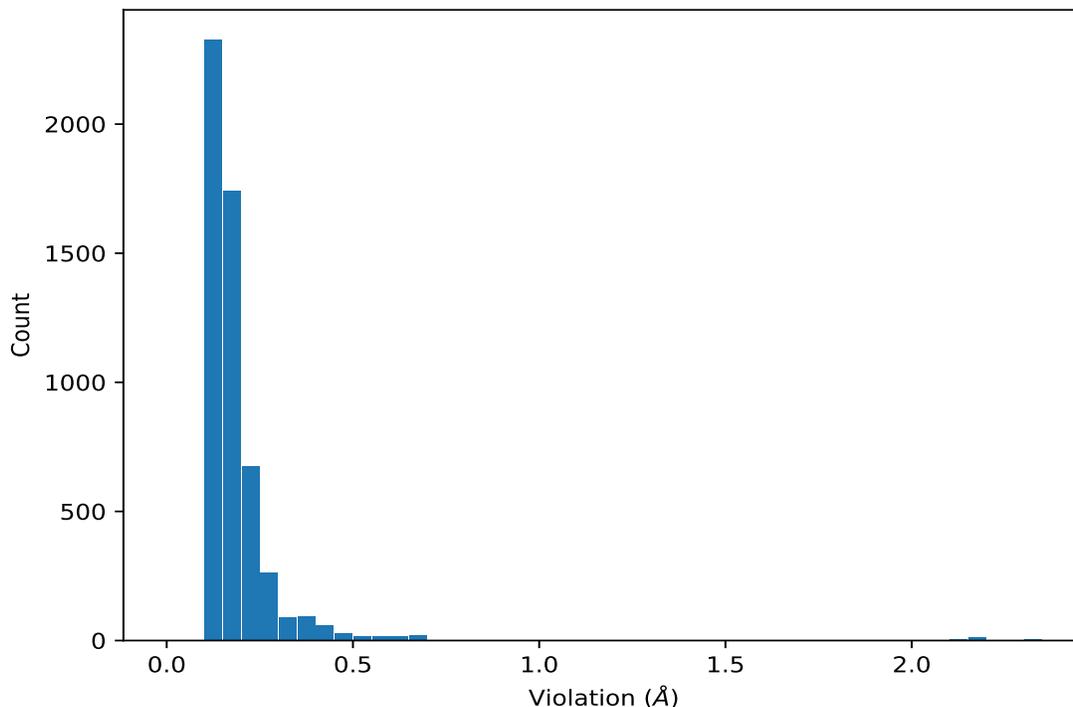
Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,934)	1:47:B:LEU:HD11	1:55:B:HIS:HB3	3	0.11	0.0	0.11
(1,934)	1:47:B:LEU:HD12	1:55:B:HIS:HB3	3	0.11	0.0	0.11
(1,934)	1:47:B:LEU:HD13	1:55:B:HIS:HB3	3	0.11	0.0	0.11
(1,985)	1:36:B:TYR:H	1:35:B:SER:HB3	3	0.11	0.0	0.11
(1,855)	1:27:B:GLU:HG2	1:27:B:GLU:HA	2	0.66	0.01	0.66
(1,855)	1:27:B:GLU:HG3	1:27:B:GLU:HA	2	0.66	0.01	0.66
(1,253)	1:45:A:GLN:HE21	1:45:A:GLN:HG3	2	0.59	0.0	0.59
(1,734)	1:45:B:GLN:HE21	1:45:B:GLN:HG3	2	0.59	0.0	0.59
(1,478)	1:21:A:HIS:H	1:20:A:TYR:HA	2	0.41	0.09	0.41
(1,676)	1:32:B:ALA:HB1	1:30:B:PHE:HE1	2	0.24	0.08	0.24
(1,676)	1:32:B:ALA:HB1	1:30:B:PHE:HE2	2	0.24	0.08	0.24
(1,676)	1:32:B:ALA:HB2	1:30:B:PHE:HE1	2	0.24	0.08	0.24
(1,676)	1:32:B:ALA:HB2	1:30:B:PHE:HE2	2	0.24	0.08	0.24
(1,676)	1:32:B:ALA:HB3	1:30:B:PHE:HE1	2	0.24	0.08	0.24
(1,676)	1:32:B:ALA:HB3	1:30:B:PHE:HE2	2	0.24	0.08	0.24
(1,475)	1:63:A:ASN:HB2	1:63:A:ASN:HA	2	0.21	0.0	0.21
(1,951)	1:60:B:HIS:HB3	1:60:B:HIS:HD2	2	0.19	0.01	0.19
(1,959)	1:21:B:HIS:H	1:20:B:TYR:HA	2	0.15	0.05	0.15
(1,674)	1:55:B:HIS:HD2	1:55:B:HIS:HB2	2	0.14	0.02	0.14
(1,1024)	1:58:B:LEU:H	1:57:B:ARG:HB2	2	0.13	0.0	0.13
(1,170)	1:55:A:HIS:H	1:47:A:LEU:HD11	2	0.12	0.02	0.12
(1,170)	1:55:A:HIS:H	1:47:A:LEU:HD12	2	0.12	0.02	0.12
(1,170)	1:55:A:HIS:H	1:47:A:LEU:HD13	2	0.12	0.02	0.12
(1,591)	1:56:B:PHE:HE1	1:25:B:CYS:HA	2	0.12	0.02	0.12
(1,591)	1:56:B:PHE:HE2	1:25:B:CYS:HA	2	0.12	0.02	0.12
(1,1025)	1:58:B:LEU:H	1:58:B:LEU:HA	2	0.12	0.0	0.12
(1,504)	1:36:A:TYR:H	1:35:A:SER:HB3	2	0.11	0.01	0.11
(1,717)	1:28:B:VAL:HG11	1:36:B:TYR:HD1	2	0.11	0.0	0.11
(1,717)	1:28:B:VAL:HG11	1:36:B:TYR:HD2	2	0.11	0.0	0.11
(1,717)	1:28:B:VAL:HG12	1:36:B:TYR:HD1	2	0.11	0.0	0.11
(1,717)	1:28:B:VAL:HG12	1:36:B:TYR:HD2	2	0.11	0.0	0.11
(1,717)	1:28:B:VAL:HG13	1:36:B:TYR:HD1	2	0.11	0.0	0.11
(1,717)	1:28:B:VAL:HG13	1:36:B:TYR:HD2	2	0.11	0.0	0.11
(1,782)	1:43:B:CYS:H	1:40:B:CYS:HB2	2	0.11	0.01	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)
(1,174)	1:44:A:ASP:H	1:40:A:CYS:HB2	1	2.33
(1,174)	1:44:A:ASP:H	1:40:A:CYS:HB2	17	2.33
(1,174)	1:44:A:ASP:H	1:40:A:CYS:HB2	9	2.32
(1,655)	1:44:B:ASP:H	1:40:B:CYS:HB2	20	2.31
(1,655)	1:44:B:ASP:H	1:40:B:CYS:HB2	3	2.29
(1,174)	1:44:A:ASP:H	1:40:A:CYS:HB2	7	2.29
(1,655)	1:44:B:ASP:H	1:40:B:CYS:HB2	13	2.17
(1,174)	1:44:A:ASP:H	1:40:A:CYS:HB2	2	2.17
(1,655)	1:44:B:ASP:H	1:40:B:CYS:HB2	5	2.16
(1,655)	1:44:B:ASP:H	1:40:B:CYS:HB2	18	2.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,174)	1:44:A:ASP:H	1:40:A:CYS:HB2	3	2.16
(1,174)	1:44:A:ASP:H	1:40:A:CYS:HB2	5	2.16
(1,174)	1:44:A:ASP:H	1:40:A:CYS:HB2	11	2.16
(1,174)	1:44:A:ASP:H	1:40:A:CYS:HB2	19	2.16
(1,174)	1:44:A:ASP:H	1:40:A:CYS:HB2	20	2.16
(1,655)	1:44:B:ASP:H	1:40:B:CYS:HB2	16	2.15
(1,174)	1:44:A:ASP:H	1:40:A:CYS:HB2	12	2.15
(1,174)	1:44:A:ASP:H	1:40:A:CYS:HB2	14	2.15
(1,655)	1:44:B:ASP:H	1:40:B:CYS:HB2	4	2.14
(1,655)	1:44:B:ASP:H	1:40:B:CYS:HB2	15	2.14
(1,655)	1:44:B:ASP:H	1:40:B:CYS:HB2	2	2.13
(1,174)	1:44:A:ASP:H	1:40:A:CYS:HB2	4	2.13
(1,382)	1:45:A:GLN:HA	1:45:A:GLN:HG3	4	0.9
(1,142)	1:45:A:GLN:HG2	1:46:A:ARG:H	4	0.86
(1,322)	1:28:A:VAL:H	1:27:A:GLU:HB2	6	0.67
(1,322)	1:28:A:VAL:H	1:27:A:GLU:HB3	6	0.67
(1,855)	1:27:B:GLU:HG2	1:27:B:GLU:HA	8	0.66
(1,855)	1:27:B:GLU:HG3	1:27:B:GLU:HA	8	0.66
(1,855)	1:27:B:GLU:HG2	1:27:B:GLU:HA	10	0.65
(1,855)	1:27:B:GLU:HG3	1:27:B:GLU:HA	10	0.65
(1,803)	1:28:B:VAL:H	1:27:B:GLU:HB2	4	0.65
(1,803)	1:28:B:VAL:H	1:27:B:GLU:HB3	4	0.65
(1,803)	1:28:B:VAL:H	1:27:B:GLU:HB2	16	0.65
(1,803)	1:28:B:VAL:H	1:27:B:GLU:HB3	16	0.65
(1,374)	1:27:A:GLU:HG2	1:27:A:GLU:HA	12	0.65
(1,374)	1:27:A:GLU:HG3	1:27:A:GLU:HA	12	0.65
(1,374)	1:27:A:GLU:HG2	1:27:A:GLU:HA	14	0.65
(1,374)	1:27:A:GLU:HG3	1:27:A:GLU:HA	14	0.65
(1,374)	1:27:A:GLU:HG2	1:27:A:GLU:HA	19	0.65
(1,374)	1:27:A:GLU:HG3	1:27:A:GLU:HA	19	0.65
(1,322)	1:28:A:VAL:H	1:27:A:GLU:HB2	4	0.65
(1,322)	1:28:A:VAL:H	1:27:A:GLU:HB3	4	0.65
(1,322)	1:28:A:VAL:H	1:27:A:GLU:HB2	7	0.65
(1,322)	1:28:A:VAL:H	1:27:A:GLU:HB3	7	0.65
(1,322)	1:28:A:VAL:H	1:27:A:GLU:HB2	18	0.65
(1,322)	1:28:A:VAL:H	1:27:A:GLU:HB3	18	0.65
(1,803)	1:28:B:VAL:H	1:27:B:GLU:HB2	1	0.64
(1,803)	1:28:B:VAL:H	1:27:B:GLU:HB3	1	0.64
(1,803)	1:28:B:VAL:H	1:27:B:GLU:HB2	9	0.64
(1,803)	1:28:B:VAL:H	1:27:B:GLU:HB3	9	0.64
(1,322)	1:28:A:VAL:H	1:27:A:GLU:HB2	5	0.64
(1,322)	1:28:A:VAL:H	1:27:A:GLU:HB3	5	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,322)	1:28:A:VAL:H	1:27:A:GLU:HB2	10	0.64
(1,322)	1:28:A:VAL:H	1:27:A:GLU:HB3	10	0.64
(1,322)	1:28:A:VAL:H	1:27:A:GLU:HB2	15	0.64
(1,322)	1:28:A:VAL:H	1:27:A:GLU:HB3	15	0.64
(1,803)	1:28:B:VAL:H	1:27:B:GLU:HB2	2	0.63
(1,803)	1:28:B:VAL:H	1:27:B:GLU:HB3	2	0.63
(1,803)	1:28:B:VAL:H	1:27:B:GLU:HB2	3	0.63
(1,803)	1:28:B:VAL:H	1:27:B:GLU:HB3	3	0.63
(1,803)	1:28:B:VAL:H	1:27:B:GLU:HB2	19	0.63
(1,803)	1:28:B:VAL:H	1:27:B:GLU:HB3	19	0.63
(1,322)	1:28:A:VAL:H	1:27:A:GLU:HB2	3	0.63
(1,322)	1:28:A:VAL:H	1:27:A:GLU:HB3	3	0.63
(1,734)	1:45:B:GLN:HE21	1:45:B:GLN:HG3	2	0.59
(1,734)	1:45:B:GLN:HE21	1:45:B:GLN:HG3	4	0.59
(1,253)	1:45:A:GLN:HE21	1:45:A:GLN:HG3	9	0.59
(1,253)	1:45:A:GLN:HE21	1:45:A:GLN:HG3	17	0.59
(1,708)	1:62:B:THR:H	1:61:B:PHE:HA	10	0.58
(1,708)	1:62:B:THR:H	1:61:B:PHE:HA	12	0.58
(1,708)	1:62:B:THR:H	1:61:B:PHE:HA	19	0.58
(1,708)	1:62:B:THR:H	1:61:B:PHE:HA	7	0.57
(1,708)	1:62:B:THR:H	1:61:B:PHE:HA	14	0.57
(1,708)	1:62:B:THR:H	1:61:B:PHE:HA	17	0.56
(1,704)	1:43:B:CYS:H	1:44:B:ASP:H	3	0.56
(1,223)	1:43:A:CYS:H	1:44:A:ASP:H	4	0.56
(1,708)	1:62:B:THR:H	1:61:B:PHE:HA	6	0.55
(1,704)	1:43:B:CYS:H	1:44:B:ASP:H	2	0.55
(1,223)	1:43:A:CYS:H	1:44:A:ASP:H	5	0.55
(1,223)	1:43:A:CYS:H	1:44:A:ASP:H	7	0.55
(1,223)	1:43:A:CYS:H	1:44:A:ASP:H	14	0.55
(1,704)	1:43:B:CYS:H	1:44:B:ASP:H	5	0.54
(1,704)	1:43:B:CYS:H	1:44:B:ASP:H	15	0.54
(1,704)	1:43:B:CYS:H	1:44:B:ASP:H	18	0.54
(1,223)	1:43:A:CYS:H	1:44:A:ASP:H	3	0.54
(1,223)	1:43:A:CYS:H	1:44:A:ASP:H	9	0.54
(1,223)	1:43:A:CYS:H	1:44:A:ASP:H	11	0.54
(1,223)	1:43:A:CYS:H	1:44:A:ASP:H	12	0.54
(1,223)	1:43:A:CYS:H	1:44:A:ASP:H	19	0.54
(1,704)	1:43:B:CYS:H	1:44:B:ASP:H	4	0.53
(1,704)	1:43:B:CYS:H	1:44:B:ASP:H	13	0.53
(1,704)	1:43:B:CYS:H	1:44:B:ASP:H	16	0.53
(1,223)	1:43:A:CYS:H	1:44:A:ASP:H	2	0.53
(1,223)	1:43:A:CYS:H	1:44:A:ASP:H	17	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,223)	1:43:A:CYS:H	1:44:A:ASP:H	20	0.53
(1,704)	1:43:B:CYS:H	1:44:B:ASP:H	20	0.52
(1,223)	1:43:A:CYS:H	1:44:A:ASP:H	1	0.52
(1,478)	1:21:A:HIS:H	1:20:A:TYR:HA	15	0.5
(1,562)	1:60:B:HIS:HD2	1:56:B:PHE:H	20	0.49
(1,81)	1:60:A:HIS:HD2	1:56:A:PHE:H	4	0.49
(1,886)	1:57:B:ARG:HD2	1:57:B:ARG:HG2	3	0.48
(1,886)	1:57:B:ARG:HD2	1:57:B:ARG:HG2	12	0.48
(1,886)	1:57:B:ARG:HD2	1:57:B:ARG:HG2	14	0.48
(1,708)	1:62:B:THR:H	1:61:B:PHE:HA	3	0.48
(1,708)	1:62:B:THR:H	1:61:B:PHE:HA	4	0.48
(1,708)	1:62:B:THR:H	1:61:B:PHE:HA	8	0.48
(1,405)	1:57:A:ARG:HD2	1:57:A:ARG:HG2	1	0.48
(1,405)	1:57:A:ARG:HD2	1:57:A:ARG:HG2	5	0.48
(1,405)	1:57:A:ARG:HD2	1:57:A:ARG:HG2	10	0.48
(1,81)	1:60:A:HIS:HD2	1:56:A:PHE:H	5	0.48
(1,562)	1:60:B:HIS:HD2	1:56:B:PHE:H	3	0.47
(1,562)	1:60:B:HIS:HD2	1:56:B:PHE:H	5	0.47
(1,227)	1:62:A:THR:H	1:61:A:PHE:HA	17	0.47
(1,81)	1:60:A:HIS:HD2	1:56:A:PHE:H	2	0.47
(1,81)	1:60:A:HIS:HD2	1:56:A:PHE:H	7	0.47
(1,708)	1:62:B:THR:H	1:61:B:PHE:HA	1	0.46
(1,562)	1:60:B:HIS:HD2	1:56:B:PHE:H	2	0.46
(1,562)	1:60:B:HIS:HD2	1:56:B:PHE:H	10	0.46
(1,562)	1:60:B:HIS:HD2	1:56:B:PHE:H	12	0.46
(1,562)	1:60:B:HIS:HD2	1:56:B:PHE:H	13	0.46
(1,562)	1:60:B:HIS:HD2	1:56:B:PHE:H	18	0.46
(1,433)	1:45:A:GLN:HG2	1:45:A:GLN:HA	4	0.46
(1,81)	1:60:A:HIS:HD2	1:56:A:PHE:H	19	0.46
(1,562)	1:60:B:HIS:HD2	1:56:B:PHE:H	1	0.45
(1,562)	1:60:B:HIS:HD2	1:56:B:PHE:H	19	0.45
(1,227)	1:62:A:THR:H	1:61:A:PHE:HA	10	0.45
(1,81)	1:60:A:HIS:HD2	1:56:A:PHE:H	10	0.45
(1,81)	1:60:A:HIS:HD2	1:56:A:PHE:H	17	0.45
(1,81)	1:60:A:HIS:HD2	1:56:A:PHE:H	3	0.44
(1,81)	1:60:A:HIS:HD2	1:56:A:PHE:H	6	0.44
(1,81)	1:60:A:HIS:HD2	1:56:A:PHE:H	14	0.44
(1,562)	1:60:B:HIS:HD2	1:56:B:PHE:H	6	0.43
(1,562)	1:60:B:HIS:HD2	1:56:B:PHE:H	8	0.43
(1,562)	1:60:B:HIS:HD2	1:56:B:PHE:H	9	0.43
(1,562)	1:60:B:HIS:HD2	1:56:B:PHE:H	14	0.43
(1,463)	1:59:A:LYS:HB3	1:59:A:LYS:HG2	8	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,463)	1:59:A:LYS:HB3	1:59:A:LYS:HG3	8	0.43
(1,339)	1:27:A:GLU:HG2	1:41:A:LEU:HD21	7	0.43
(1,339)	1:27:A:GLU:HG2	1:41:A:LEU:HD22	7	0.43
(1,339)	1:27:A:GLU:HG2	1:41:A:LEU:HD23	7	0.43
(1,339)	1:27:A:GLU:HG3	1:41:A:LEU:HD21	7	0.43
(1,339)	1:27:A:GLU:HG3	1:41:A:LEU:HD22	7	0.43
(1,339)	1:27:A:GLU:HG3	1:41:A:LEU:HD23	7	0.43
(1,463)	1:59:A:LYS:HB3	1:59:A:LYS:HG2	13	0.42
(1,463)	1:59:A:LYS:HB3	1:59:A:LYS:HG3	13	0.42
(1,463)	1:59:A:LYS:HB3	1:59:A:LYS:HG2	16	0.42
(1,463)	1:59:A:LYS:HB3	1:59:A:LYS:HG3	16	0.42
(1,81)	1:60:A:HIS:HD2	1:56:A:PHE:H	15	0.42
(1,944)	1:59:B:LYS:HB3	1:59:B:LYS:HG2	7	0.41
(1,944)	1:59:B:LYS:HB3	1:59:B:LYS:HG3	7	0.41
(1,944)	1:59:B:LYS:HB3	1:59:B:LYS:HG2	17	0.41
(1,944)	1:59:B:LYS:HB3	1:59:B:LYS:HG3	17	0.41
(1,562)	1:60:B:HIS:HD2	1:56:B:PHE:H	11	0.41
(1,463)	1:59:A:LYS:HB3	1:59:A:LYS:HG2	1	0.41
(1,463)	1:59:A:LYS:HB3	1:59:A:LYS:HG3	1	0.41
(1,463)	1:59:A:LYS:HB3	1:59:A:LYS:HG2	9	0.41
(1,463)	1:59:A:LYS:HB3	1:59:A:LYS:HG3	9	0.41
(1,463)	1:59:A:LYS:HB3	1:59:A:LYS:HG2	20	0.41
(1,463)	1:59:A:LYS:HB3	1:59:A:LYS:HG3	20	0.41
(1,159)	1:21:A:HIS:HB2	1:21:A:HIS:HA	10	0.41
(1,81)	1:60:A:HIS:HD2	1:56:A:PHE:H	18	0.41
(1,1007)	1:45:B:GLN:H	1:45:B:GLN:HA	3	0.4
(1,1007)	1:45:B:GLN:H	1:45:B:GLN:HA	20	0.4
(1,944)	1:59:B:LYS:HB3	1:59:B:LYS:HG2	4	0.4
(1,944)	1:59:B:LYS:HB3	1:59:B:LYS:HG3	4	0.4
(1,944)	1:59:B:LYS:HB3	1:59:B:LYS:HG2	16	0.4
(1,944)	1:59:B:LYS:HB3	1:59:B:LYS:HG3	16	0.4
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD21	6	0.4
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD22	6	0.4
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD23	6	0.4
(1,708)	1:62:B:THR:H	1:61:B:PHE:HA	2	0.4
(1,640)	1:21:B:HIS:HB2	1:21:B:HIS:HA	5	0.4
(1,640)	1:21:B:HIS:HB2	1:21:B:HIS:HA	8	0.4
(1,640)	1:21:B:HIS:HB2	1:21:B:HIS:HA	10	0.4
(1,640)	1:21:B:HIS:HB2	1:21:B:HIS:HA	11	0.4
(1,640)	1:21:B:HIS:HB2	1:21:B:HIS:HA	14	0.4
(1,640)	1:21:B:HIS:HB2	1:21:B:HIS:HA	16	0.4
(1,640)	1:21:B:HIS:HB2	1:21:B:HIS:HA	19	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,640)	1:21:B:HIS:HB2	1:21:B:HIS:HA	20	0.4
(1,526)	1:45:A:GLN:H	1:45:A:GLN:HA	1	0.4
(1,526)	1:45:A:GLN:H	1:45:A:GLN:HA	7	0.4
(1,526)	1:45:A:GLN:H	1:45:A:GLN:HA	9	0.4
(1,526)	1:45:A:GLN:H	1:45:A:GLN:HA	17	0.4
(1,159)	1:21:A:HIS:HB2	1:21:A:HIS:HA	2	0.4
(1,159)	1:21:A:HIS:HB2	1:21:A:HIS:HA	4	0.4
(1,159)	1:21:A:HIS:HB2	1:21:A:HIS:HA	5	0.4
(1,159)	1:21:A:HIS:HB2	1:21:A:HIS:HA	6	0.4
(1,159)	1:21:A:HIS:HB2	1:21:A:HIS:HA	8	0.4
(1,159)	1:21:A:HIS:HB2	1:21:A:HIS:HA	16	0.4
(1,1007)	1:45:B:GLN:H	1:45:B:GLN:HA	2	0.39
(1,1007)	1:45:B:GLN:H	1:45:B:GLN:HA	4	0.39
(1,1007)	1:45:B:GLN:H	1:45:B:GLN:HA	13	0.39
(1,1007)	1:45:B:GLN:H	1:45:B:GLN:HA	15	0.39
(1,1007)	1:45:B:GLN:H	1:45:B:GLN:HA	16	0.39
(1,1007)	1:45:B:GLN:H	1:45:B:GLN:HA	18	0.39
(1,820)	1:27:B:GLU:HG2	1:41:B:LEU:HD21	3	0.39
(1,820)	1:27:B:GLU:HG2	1:41:B:LEU:HD22	3	0.39
(1,820)	1:27:B:GLU:HG2	1:41:B:LEU:HD23	3	0.39
(1,820)	1:27:B:GLU:HG3	1:41:B:LEU:HD21	3	0.39
(1,820)	1:27:B:GLU:HG3	1:41:B:LEU:HD22	3	0.39
(1,820)	1:27:B:GLU:HG3	1:41:B:LEU:HD23	3	0.39
(1,708)	1:62:B:THR:H	1:61:B:PHE:HA	15	0.39
(1,640)	1:21:B:HIS:HB2	1:21:B:HIS:HA	9	0.39
(1,526)	1:45:A:GLN:H	1:45:A:GLN:HA	2	0.39
(1,526)	1:45:A:GLN:H	1:45:A:GLN:HA	3	0.39
(1,526)	1:45:A:GLN:H	1:45:A:GLN:HA	5	0.39
(1,526)	1:45:A:GLN:H	1:45:A:GLN:HA	11	0.39
(1,526)	1:45:A:GLN:H	1:45:A:GLN:HA	12	0.39
(1,526)	1:45:A:GLN:H	1:45:A:GLN:HA	14	0.39
(1,526)	1:45:A:GLN:H	1:45:A:GLN:HA	19	0.39
(1,526)	1:45:A:GLN:H	1:45:A:GLN:HA	20	0.39
(1,339)	1:27:A:GLU:HG2	1:41:A:LEU:HD21	4	0.39
(1,339)	1:27:A:GLU:HG2	1:41:A:LEU:HD22	4	0.39
(1,339)	1:27:A:GLU:HG2	1:41:A:LEU:HD23	4	0.39
(1,339)	1:27:A:GLU:HG3	1:41:A:LEU:HD21	4	0.39
(1,339)	1:27:A:GLU:HG3	1:41:A:LEU:HD22	4	0.39
(1,339)	1:27:A:GLU:HG3	1:41:A:LEU:HD23	4	0.39
(1,1007)	1:45:B:GLN:H	1:45:B:GLN:HA	5	0.38
(1,912)	1:44:B:ASP:HB2	1:44:B:ASP:HA	3	0.38
(1,912)	1:44:B:ASP:HB2	1:44:B:ASP:HA	4	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,912)	1:44:B:ASP:HB2	1:44:B:ASP:HA	13	0.38
(1,912)	1:44:B:ASP:HB2	1:44:B:ASP:HA	16	0.38
(1,912)	1:44:B:ASP:HB2	1:44:B:ASP:HA	20	0.38
(1,431)	1:44:A:ASP:HB2	1:44:A:ASP:HA	1	0.38
(1,431)	1:44:A:ASP:HB2	1:44:A:ASP:HA	2	0.38
(1,431)	1:44:A:ASP:HB2	1:44:A:ASP:HA	7	0.38
(1,431)	1:44:A:ASP:HB2	1:44:A:ASP:HA	9	0.38
(1,431)	1:44:A:ASP:HB2	1:44:A:ASP:HA	20	0.38
(1,339)	1:27:A:GLU:HG2	1:41:A:LEU:HD21	5	0.38
(1,339)	1:27:A:GLU:HG2	1:41:A:LEU:HD22	5	0.38
(1,339)	1:27:A:GLU:HG2	1:41:A:LEU:HD23	5	0.38
(1,339)	1:27:A:GLU:HG3	1:41:A:LEU:HD21	5	0.38
(1,339)	1:27:A:GLU:HG3	1:41:A:LEU:HD22	5	0.38
(1,339)	1:27:A:GLU:HG3	1:41:A:LEU:HD23	5	0.38
(1,820)	1:27:B:GLU:HG2	1:41:B:LEU:HD21	4	0.37
(1,820)	1:27:B:GLU:HG2	1:41:B:LEU:HD22	4	0.37
(1,820)	1:27:B:GLU:HG2	1:41:B:LEU:HD23	4	0.37
(1,820)	1:27:B:GLU:HG3	1:41:B:LEU:HD21	4	0.37
(1,820)	1:27:B:GLU:HG3	1:41:B:LEU:HD22	4	0.37
(1,820)	1:27:B:GLU:HG3	1:41:B:LEU:HD23	4	0.37
(1,820)	1:27:B:GLU:HG2	1:41:B:LEU:HD21	19	0.37
(1,820)	1:27:B:GLU:HG2	1:41:B:LEU:HD22	19	0.37
(1,820)	1:27:B:GLU:HG2	1:41:B:LEU:HD23	19	0.37
(1,820)	1:27:B:GLU:HG3	1:41:B:LEU:HD21	19	0.37
(1,820)	1:27:B:GLU:HG3	1:41:B:LEU:HD22	19	0.37
(1,820)	1:27:B:GLU:HG3	1:41:B:LEU:HD23	19	0.37
(1,526)	1:45:A:GLN:H	1:45:A:GLN:HA	4	0.37
(1,339)	1:27:A:GLU:HG2	1:41:A:LEU:HD21	10	0.37
(1,339)	1:27:A:GLU:HG2	1:41:A:LEU:HD22	10	0.37
(1,339)	1:27:A:GLU:HG2	1:41:A:LEU:HD23	10	0.37
(1,339)	1:27:A:GLU:HG3	1:41:A:LEU:HD21	10	0.37
(1,339)	1:27:A:GLU:HG3	1:41:A:LEU:HD22	10	0.37
(1,339)	1:27:A:GLU:HG3	1:41:A:LEU:HD23	10	0.37
(1,820)	1:27:B:GLU:HG2	1:41:B:LEU:HD21	2	0.36
(1,820)	1:27:B:GLU:HG2	1:41:B:LEU:HD22	2	0.36
(1,820)	1:27:B:GLU:HG2	1:41:B:LEU:HD23	2	0.36
(1,820)	1:27:B:GLU:HG3	1:41:B:LEU:HD21	2	0.36
(1,820)	1:27:B:GLU:HG3	1:41:B:LEU:HD22	2	0.36
(1,820)	1:27:B:GLU:HG3	1:41:B:LEU:HD23	2	0.36
(1,820)	1:27:B:GLU:HG2	1:41:B:LEU:HD21	9	0.36
(1,820)	1:27:B:GLU:HG2	1:41:B:LEU:HD22	9	0.36
(1,820)	1:27:B:GLU:HG2	1:41:B:LEU:HD23	9	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,820)	1:27:B:GLU:HG3	1:41:B:LEU:HD21	9	0.36
(1,820)	1:27:B:GLU:HG3	1:41:B:LEU:HD22	9	0.36
(1,820)	1:27:B:GLU:HG3	1:41:B:LEU:HD23	9	0.36
(1,820)	1:27:B:GLU:HG2	1:41:B:LEU:HD21	16	0.36
(1,820)	1:27:B:GLU:HG2	1:41:B:LEU:HD22	16	0.36
(1,820)	1:27:B:GLU:HG2	1:41:B:LEU:HD23	16	0.36
(1,820)	1:27:B:GLU:HG3	1:41:B:LEU:HD21	16	0.36
(1,820)	1:27:B:GLU:HG3	1:41:B:LEU:HD22	16	0.36
(1,820)	1:27:B:GLU:HG3	1:41:B:LEU:HD23	16	0.36
(1,488)	1:28:A:VAL:H	1:27:A:GLU:HG2	12	0.36
(1,488)	1:28:A:VAL:H	1:27:A:GLU:HG3	12	0.36
(1,488)	1:28:A:VAL:H	1:27:A:GLU:HG2	14	0.36
(1,488)	1:28:A:VAL:H	1:27:A:GLU:HG3	14	0.36
(1,488)	1:28:A:VAL:H	1:27:A:GLU:HG2	19	0.36
(1,488)	1:28:A:VAL:H	1:27:A:GLU:HG3	19	0.36
(1,81)	1:60:A:HIS:HD2	1:56:A:PHE:H	1	0.36
(1,81)	1:60:A:HIS:HD2	1:56:A:PHE:H	9	0.36
(1,81)	1:60:A:HIS:HD2	1:56:A:PHE:H	11	0.36
(1,34)	1:36:B:TYR:HE1	1:56:A:PHE:HD1	16	0.36
(1,34)	1:36:B:TYR:HE1	1:56:A:PHE:HD2	16	0.36
(1,34)	1:36:B:TYR:HE2	1:56:A:PHE:HD1	16	0.36
(1,34)	1:36:B:TYR:HE2	1:56:A:PHE:HD2	16	0.36
(1,820)	1:27:B:GLU:HG2	1:41:B:LEU:HD21	1	0.35
(1,820)	1:27:B:GLU:HG2	1:41:B:LEU:HD22	1	0.35
(1,820)	1:27:B:GLU:HG2	1:41:B:LEU:HD23	1	0.35
(1,820)	1:27:B:GLU:HG3	1:41:B:LEU:HD21	1	0.35
(1,820)	1:27:B:GLU:HG3	1:41:B:LEU:HD22	1	0.35
(1,820)	1:27:B:GLU:HG3	1:41:B:LEU:HD23	1	0.35
(1,768)	1:44:B:ASP:H	1:45:B:GLN:H	3	0.35
(1,562)	1:60:B:HIS:HD2	1:56:B:PHE:H	15	0.35
(1,339)	1:27:A:GLU:HG2	1:41:A:LEU:HD21	15	0.35
(1,339)	1:27:A:GLU:HG2	1:41:A:LEU:HD22	15	0.35
(1,339)	1:27:A:GLU:HG2	1:41:A:LEU:HD23	15	0.35
(1,339)	1:27:A:GLU:HG3	1:41:A:LEU:HD21	15	0.35
(1,339)	1:27:A:GLU:HG3	1:41:A:LEU:HD22	15	0.35
(1,339)	1:27:A:GLU:HG3	1:41:A:LEU:HD23	15	0.35
(1,287)	1:44:A:ASP:H	1:45:A:GLN:H	9	0.35
(1,81)	1:60:A:HIS:HD2	1:56:A:PHE:H	20	0.35
(1,24)	1:30:B:PHE:HE1	1:61:A:PHE:HZ	20	0.35
(1,24)	1:30:B:PHE:HE2	1:61:A:PHE:HZ	20	0.35
(1,23)	1:30:A:PHE:HE1	1:61:B:PHE:HZ	20	0.35
(1,23)	1:30:A:PHE:HE2	1:61:B:PHE:HZ	20	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,768)	1:44:B:ASP:H	1:45:B:GLN:H	20	0.34
(1,562)	1:60:B:HIS:HD2	1:56:B:PHE:H	4	0.34
(1,562)	1:60:B:HIS:HD2	1:56:B:PHE:H	16	0.34
(1,287)	1:44:A:ASP:H	1:45:A:GLN:H	1	0.34
(1,287)	1:44:A:ASP:H	1:45:A:GLN:H	7	0.34
(1,287)	1:44:A:ASP:H	1:45:A:GLN:H	17	0.34
(1,81)	1:60:A:HIS:HD2	1:56:A:PHE:H	12	0.34
(1,46)	1:49:B:LEU:HD11	1:53:A:PRO:HD2	8	0.34
(1,46)	1:49:B:LEU:HD12	1:53:A:PRO:HD2	8	0.34
(1,46)	1:49:B:LEU:HD13	1:53:A:PRO:HD2	8	0.34
(1,24)	1:30:B:PHE:HE1	1:61:A:PHE:HZ	9	0.34
(1,24)	1:30:B:PHE:HE2	1:61:A:PHE:HZ	9	0.34
(1,969)	1:28:B:VAL:H	1:27:B:GLU:HG2	8	0.33
(1,969)	1:28:B:VAL:H	1:27:B:GLU:HG3	8	0.33
(1,969)	1:28:B:VAL:H	1:27:B:GLU:HG2	10	0.33
(1,969)	1:28:B:VAL:H	1:27:B:GLU:HG3	10	0.33
(1,599)	1:61:B:PHE:HB3	1:57:B:ARG:HA	15	0.33
(1,562)	1:60:B:HIS:HD2	1:56:B:PHE:H	17	0.33
(1,339)	1:27:A:GLU:HG2	1:41:A:LEU:HD21	6	0.33
(1,339)	1:27:A:GLU:HG2	1:41:A:LEU:HD22	6	0.33
(1,339)	1:27:A:GLU:HG2	1:41:A:LEU:HD23	6	0.33
(1,339)	1:27:A:GLU:HG3	1:41:A:LEU:HD21	6	0.33
(1,339)	1:27:A:GLU:HG3	1:41:A:LEU:HD22	6	0.33
(1,339)	1:27:A:GLU:HG3	1:41:A:LEU:HD23	6	0.33
(1,72)	1:32:B:ALA:H	1:20:A:TYR:HB3	16	0.33
(1,45)	1:49:A:LEU:HD11	1:53:B:PRO:HD2	20	0.33
(1,45)	1:49:A:LEU:HD12	1:53:B:PRO:HD2	20	0.33
(1,45)	1:49:A:LEU:HD13	1:53:B:PRO:HD2	20	0.33
(1,768)	1:44:B:ASP:H	1:45:B:GLN:H	16	0.32
(1,676)	1:32:B:ALA:HB1	1:30:B:PHE:HE1	15	0.32
(1,676)	1:32:B:ALA:HB1	1:30:B:PHE:HE2	15	0.32
(1,676)	1:32:B:ALA:HB2	1:30:B:PHE:HE1	15	0.32
(1,676)	1:32:B:ALA:HB2	1:30:B:PHE:HE2	15	0.32
(1,676)	1:32:B:ALA:HB3	1:30:B:PHE:HE1	15	0.32
(1,676)	1:32:B:ALA:HB3	1:30:B:PHE:HE2	15	0.32
(1,562)	1:60:B:HIS:HD2	1:56:B:PHE:H	7	0.32
(1,478)	1:21:A:HIS:H	1:20:A:TYR:HA	16	0.32
(1,339)	1:27:A:GLU:HG2	1:41:A:LEU:HD21	3	0.32
(1,339)	1:27:A:GLU:HG2	1:41:A:LEU:HD22	3	0.32
(1,339)	1:27:A:GLU:HG2	1:41:A:LEU:HD23	3	0.32
(1,339)	1:27:A:GLU:HG3	1:41:A:LEU:HD21	3	0.32
(1,339)	1:27:A:GLU:HG3	1:41:A:LEU:HD22	3	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,339)	1:27:A:GLU:HG3	1:41:A:LEU:HD23	3	0.32
(1,339)	1:27:A:GLU:HG2	1:41:A:LEU:HD21	18	0.32
(1,339)	1:27:A:GLU:HG2	1:41:A:LEU:HD22	18	0.32
(1,339)	1:27:A:GLU:HG2	1:41:A:LEU:HD23	18	0.32
(1,339)	1:27:A:GLU:HG3	1:41:A:LEU:HD21	18	0.32
(1,339)	1:27:A:GLU:HG3	1:41:A:LEU:HD22	18	0.32
(1,339)	1:27:A:GLU:HG3	1:41:A:LEU:HD23	18	0.32
(1,287)	1:44:A:ASP:H	1:45:A:GLN:H	3	0.32
(1,287)	1:44:A:ASP:H	1:45:A:GLN:H	4	0.32
(1,81)	1:60:A:HIS:HD2	1:56:A:PHE:H	8	0.32
(1,81)	1:60:A:HIS:HD2	1:56:A:PHE:H	13	0.32
(1,33)	1:36:A:TYR:HE1	1:56:B:PHE:HD1	16	0.32
(1,33)	1:36:A:TYR:HE1	1:56:B:PHE:HD2	16	0.32
(1,33)	1:36:A:TYR:HE2	1:56:B:PHE:HD1	16	0.32
(1,33)	1:36:A:TYR:HE2	1:56:B:PHE:HD2	16	0.32
(1,768)	1:44:B:ASP:H	1:45:B:GLN:H	4	0.31
(1,768)	1:44:B:ASP:H	1:45:B:GLN:H	13	0.31
(1,768)	1:44:B:ASP:H	1:45:B:GLN:H	15	0.31
(1,768)	1:44:B:ASP:H	1:45:B:GLN:H	18	0.31
(1,287)	1:44:A:ASP:H	1:45:A:GLN:H	2	0.31
(1,287)	1:44:A:ASP:H	1:45:A:GLN:H	5	0.31
(1,287)	1:44:A:ASP:H	1:45:A:GLN:H	20	0.31
(1,249)	1:42:A:LEU:HD11	1:56:A:PHE:HZ	13	0.31
(1,249)	1:42:A:LEU:HD12	1:56:A:PHE:HZ	13	0.31
(1,249)	1:42:A:LEU:HD13	1:56:A:PHE:HZ	13	0.31
(1,24)	1:30:B:PHE:HE1	1:61:A:PHE:HZ	1	0.31
(1,24)	1:30:B:PHE:HE2	1:61:A:PHE:HZ	1	0.31
(1,24)	1:30:B:PHE:HE1	1:61:A:PHE:HZ	19	0.31
(1,24)	1:30:B:PHE:HE2	1:61:A:PHE:HZ	19	0.31
(1,768)	1:44:B:ASP:H	1:45:B:GLN:H	2	0.3
(1,768)	1:44:B:ASP:H	1:45:B:GLN:H	5	0.3
(1,380)	1:44:A:ASP:H	1:44:A:ASP:HB2	17	0.3
(1,287)	1:44:A:ASP:H	1:45:A:GLN:H	11	0.3
(1,287)	1:44:A:ASP:H	1:45:A:GLN:H	12	0.3
(1,287)	1:44:A:ASP:H	1:45:A:GLN:H	14	0.3
(1,287)	1:44:A:ASP:H	1:45:A:GLN:H	19	0.3
(1,45)	1:49:A:LEU:HD11	1:53:B:PRO:HD2	13	0.3
(1,45)	1:49:A:LEU:HD12	1:53:B:PRO:HD2	13	0.3
(1,45)	1:49:A:LEU:HD13	1:53:B:PRO:HD2	13	0.3
(1,1040)	1:62:B:THR:H	1:62:B:THR:HG21	19	0.29
(1,1040)	1:62:B:THR:H	1:62:B:THR:HG22	19	0.29
(1,1040)	1:62:B:THR:H	1:62:B:THR:HG23	19	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,927)	1:49:B:LEU:HD21	1:36:B:TYR:HD1	12	0.29
(1,927)	1:49:B:LEU:HD21	1:36:B:TYR:HD2	12	0.29
(1,927)	1:49:B:LEU:HD22	1:36:B:TYR:HD1	12	0.29
(1,927)	1:49:B:LEU:HD22	1:36:B:TYR:HD2	12	0.29
(1,927)	1:49:B:LEU:HD23	1:36:B:TYR:HD1	12	0.29
(1,927)	1:49:B:LEU:HD23	1:36:B:TYR:HD2	12	0.29
(1,811)	1:62:B:THR:HA	1:62:B:THR:HG21	1	0.29
(1,811)	1:62:B:THR:HA	1:62:B:THR:HG22	1	0.29
(1,811)	1:62:B:THR:HA	1:62:B:THR:HG23	1	0.29
(1,811)	1:62:B:THR:HA	1:62:B:THR:HG21	3	0.29
(1,811)	1:62:B:THR:HA	1:62:B:THR:HG22	3	0.29
(1,811)	1:62:B:THR:HA	1:62:B:THR:HG23	3	0.29
(1,811)	1:62:B:THR:HA	1:62:B:THR:HG21	8	0.29
(1,811)	1:62:B:THR:HA	1:62:B:THR:HG22	8	0.29
(1,811)	1:62:B:THR:HA	1:62:B:THR:HG23	8	0.29
(1,811)	1:62:B:THR:HA	1:62:B:THR:HG21	11	0.29
(1,811)	1:62:B:THR:HA	1:62:B:THR:HG22	11	0.29
(1,811)	1:62:B:THR:HA	1:62:B:THR:HG23	11	0.29
(1,343)	1:21:A:HIS:HD2	1:21:A:HIS:HB3	16	0.29
(1,330)	1:62:A:THR:HA	1:62:A:THR:HG21	1	0.29
(1,330)	1:62:A:THR:HA	1:62:A:THR:HG22	1	0.29
(1,330)	1:62:A:THR:HA	1:62:A:THR:HG23	1	0.29
(1,330)	1:62:A:THR:HA	1:62:A:THR:HG21	3	0.29
(1,330)	1:62:A:THR:HA	1:62:A:THR:HG22	3	0.29
(1,330)	1:62:A:THR:HA	1:62:A:THR:HG23	3	0.29
(1,330)	1:62:A:THR:HA	1:62:A:THR:HG21	4	0.29
(1,330)	1:62:A:THR:HA	1:62:A:THR:HG22	4	0.29
(1,330)	1:62:A:THR:HA	1:62:A:THR:HG23	4	0.29
(1,330)	1:62:A:THR:HA	1:62:A:THR:HG21	9	0.29
(1,330)	1:62:A:THR:HA	1:62:A:THR:HG22	9	0.29
(1,330)	1:62:A:THR:HA	1:62:A:THR:HG23	9	0.29
(1,330)	1:62:A:THR:HA	1:62:A:THR:HG21	10	0.29
(1,330)	1:62:A:THR:HA	1:62:A:THR:HG22	10	0.29
(1,330)	1:62:A:THR:HA	1:62:A:THR:HG23	10	0.29
(1,330)	1:62:A:THR:HA	1:62:A:THR:HG21	12	0.29
(1,330)	1:62:A:THR:HA	1:62:A:THR:HG22	12	0.29
(1,330)	1:62:A:THR:HA	1:62:A:THR:HG23	12	0.29
(1,71)	1:32:A:ALA:H	1:20:B:TYR:HB3	4	0.29
(1,45)	1:49:A:LEU:HD11	1:53:B:PRO:HD2	16	0.29
(1,45)	1:49:A:LEU:HD12	1:53:B:PRO:HD2	16	0.29
(1,45)	1:49:A:LEU:HD13	1:53:B:PRO:HD2	16	0.29
(1,34)	1:36:B:TYR:HE1	1:56:A:PHE:HD1	3	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,34)	1:36:B:TYR:HE1	1:56:A:PHE:HD2	3	0.29
(1,34)	1:36:B:TYR:HE2	1:56:A:PHE:HD1	3	0.29
(1,34)	1:36:B:TYR:HE2	1:56:A:PHE:HD2	3	0.29
(1,1040)	1:62:B:THR:H	1:62:B:THR:HG21	10	0.28
(1,1040)	1:62:B:THR:H	1:62:B:THR:HG22	10	0.28
(1,1040)	1:62:B:THR:H	1:62:B:THR:HG23	10	0.28
(1,927)	1:49:B:LEU:HD21	1:36:B:TYR:HD1	3	0.28
(1,927)	1:49:B:LEU:HD21	1:36:B:TYR:HD2	3	0.28
(1,927)	1:49:B:LEU:HD22	1:36:B:TYR:HD1	3	0.28
(1,927)	1:49:B:LEU:HD22	1:36:B:TYR:HD2	3	0.28
(1,927)	1:49:B:LEU:HD23	1:36:B:TYR:HD1	3	0.28
(1,927)	1:49:B:LEU:HD23	1:36:B:TYR:HD2	3	0.28
(1,861)	1:44:B:ASP:H	1:44:B:ASP:HB2	3	0.28
(1,861)	1:44:B:ASP:H	1:44:B:ASP:HB2	13	0.28
(1,861)	1:44:B:ASP:H	1:44:B:ASP:HB2	16	0.28
(1,861)	1:44:B:ASP:H	1:44:B:ASP:HB2	20	0.28
(1,824)	1:21:B:HIS:HD2	1:21:B:HIS:HB3	6	0.28
(1,824)	1:21:B:HIS:HD2	1:21:B:HIS:HB3	11	0.28
(1,722)	1:30:B:PHE:HZ	1:32:B:ALA:HA	4	0.28
(1,643)	1:42:B:LEU:HD21	1:25:B:CYS:HA	15	0.28
(1,643)	1:42:B:LEU:HD22	1:25:B:CYS:HA	15	0.28
(1,643)	1:42:B:LEU:HD23	1:25:B:CYS:HA	15	0.28
(1,571)	1:34:B:ALA:HA	1:36:B:TYR:HD1	17	0.28
(1,571)	1:34:B:ALA:HA	1:36:B:TYR:HD2	17	0.28
(1,566)	1:20:B:TYR:HE1	1:61:B:PHE:HA	11	0.28
(1,566)	1:20:B:TYR:HE2	1:61:B:PHE:HA	11	0.28
(1,446)	1:49:A:LEU:HD21	1:36:A:TYR:HD1	16	0.28
(1,446)	1:49:A:LEU:HD21	1:36:A:TYR:HD2	16	0.28
(1,446)	1:49:A:LEU:HD22	1:36:A:TYR:HD1	16	0.28
(1,446)	1:49:A:LEU:HD22	1:36:A:TYR:HD2	16	0.28
(1,446)	1:49:A:LEU:HD23	1:36:A:TYR:HD1	16	0.28
(1,446)	1:49:A:LEU:HD23	1:36:A:TYR:HD2	16	0.28
(1,380)	1:44:A:ASP:H	1:44:A:ASP:HB2	1	0.28
(1,380)	1:44:A:ASP:H	1:44:A:ASP:HB2	2	0.28
(1,380)	1:44:A:ASP:H	1:44:A:ASP:HB2	7	0.28
(1,380)	1:44:A:ASP:H	1:44:A:ASP:HB2	9	0.28
(1,380)	1:44:A:ASP:H	1:44:A:ASP:HB2	20	0.28
(1,93)	1:49:A:LEU:HA	1:38:A:VAL:HB	1	0.28
(1,93)	1:49:A:LEU:HA	1:38:A:VAL:HB	9	0.28
(1,81)	1:60:A:HIS:HD2	1:56:A:PHE:H	16	0.28
(1,34)	1:36:B:TYR:HE1	1:56:A:PHE:HD1	15	0.28
(1,34)	1:36:B:TYR:HE1	1:56:A:PHE:HD2	15	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,34)	1:36:B:TYR:HE2	1:56:A:PHE:HD1	15	0.28
(1,34)	1:36:B:TYR:HE2	1:56:A:PHE:HD2	15	0.28
(1,34)	1:36:B:TYR:HE1	1:56:A:PHE:HD1	18	0.28
(1,34)	1:36:B:TYR:HE1	1:56:A:PHE:HD2	18	0.28
(1,34)	1:36:B:TYR:HE2	1:56:A:PHE:HD1	18	0.28
(1,34)	1:36:B:TYR:HE2	1:56:A:PHE:HD2	18	0.28
(1,861)	1:44:B:ASP:H	1:44:B:ASP:HB2	2	0.27
(1,861)	1:44:B:ASP:H	1:44:B:ASP:HB2	4	0.27
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD21	12	0.27
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD22	12	0.27
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD23	12	0.27
(1,566)	1:20:B:TYR:HE1	1:61:B:PHE:HA	15	0.27
(1,566)	1:20:B:TYR:HE2	1:61:B:PHE:HA	15	0.27
(1,380)	1:44:A:ASP:H	1:44:A:ASP:HB2	5	0.27
(1,380)	1:44:A:ASP:H	1:44:A:ASP:HB2	11	0.27
(1,380)	1:44:A:ASP:H	1:44:A:ASP:HB2	12	0.27
(1,380)	1:44:A:ASP:H	1:44:A:ASP:HB2	14	0.27
(1,380)	1:44:A:ASP:H	1:44:A:ASP:HB2	19	0.27
(1,249)	1:42:A:LEU:HD11	1:56:A:PHE:HZ	8	0.27
(1,249)	1:42:A:LEU:HD12	1:56:A:PHE:HZ	8	0.27
(1,249)	1:42:A:LEU:HD13	1:56:A:PHE:HZ	8	0.27
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD11	6	0.27
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD12	6	0.27
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD13	6	0.27
(1,227)	1:62:A:THR:H	1:61:A:PHE:HA	6	0.27
(1,162)	1:42:A:LEU:HD21	1:25:A:CYS:HA	12	0.27
(1,162)	1:42:A:LEU:HD22	1:25:A:CYS:HA	12	0.27
(1,162)	1:42:A:LEU:HD23	1:25:A:CYS:HA	12	0.27
(1,162)	1:42:A:LEU:HD21	1:25:A:CYS:HA	20	0.27
(1,162)	1:42:A:LEU:HD22	1:25:A:CYS:HA	20	0.27
(1,162)	1:42:A:LEU:HD23	1:25:A:CYS:HA	20	0.27
(1,154)	1:35:A:SER:HB3	1:31:A:SER:HB2	10	0.27
(1,154)	1:35:A:SER:HB3	1:31:A:SER:HB2	14	0.27
(1,93)	1:49:A:LEU:HA	1:38:A:VAL:HB	11	0.27
(1,93)	1:49:A:LEU:HA	1:38:A:VAL:HB	19	0.27
(1,85)	1:20:A:TYR:HE1	1:61:A:PHE:HA	18	0.27
(1,85)	1:20:A:TYR:HE2	1:61:A:PHE:HA	18	0.27
(1,69)	1:32:A:ALA:H	1:20:B:TYR:HB2	4	0.27
(1,24)	1:30:B:PHE:HE1	1:61:A:PHE:HZ	7	0.27
(1,24)	1:30:B:PHE:HE2	1:61:A:PHE:HZ	7	0.27
(1,1040)	1:62:B:THR:H	1:62:B:THR:HG21	12	0.26
(1,1040)	1:62:B:THR:H	1:62:B:THR:HG22	12	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1040)	1:62:B:THR:H	1:62:B:THR:HG23	12	0.26
(1,1040)	1:62:B:THR:H	1:62:B:THR:HG21	17	0.26
(1,1040)	1:62:B:THR:H	1:62:B:THR:HG22	17	0.26
(1,1040)	1:62:B:THR:H	1:62:B:THR:HG23	17	0.26
(1,861)	1:44:B:ASP:H	1:44:B:ASP:HB2	5	0.26
(1,842)	1:24:B:ARG:H	1:23:B:LEU:HB3	2	0.26
(1,824)	1:21:B:HIS:HD2	1:21:B:HIS:HB3	14	0.26
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD21	8	0.26
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD22	8	0.26
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD23	8	0.26
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD21	10	0.26
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD22	10	0.26
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD23	10	0.26
(1,730)	1:42:B:LEU:HD11	1:56:B:PHE:HZ	9	0.26
(1,730)	1:42:B:LEU:HD12	1:56:B:PHE:HZ	9	0.26
(1,730)	1:42:B:LEU:HD13	1:56:B:PHE:HZ	9	0.26
(1,722)	1:30:B:PHE:HZ	1:32:B:ALA:HA	17	0.26
(1,643)	1:42:B:LEU:HD21	1:25:B:CYS:HA	2	0.26
(1,643)	1:42:B:LEU:HD22	1:25:B:CYS:HA	2	0.26
(1,643)	1:42:B:LEU:HD23	1:25:B:CYS:HA	2	0.26
(1,635)	1:35:B:SER:HB3	1:31:B:SER:HB2	3	0.26
(1,635)	1:35:B:SER:HB3	1:31:B:SER:HB2	15	0.26
(1,602)	1:61:B:PHE:HB3	1:56:B:PHE:HD1	2	0.26
(1,602)	1:61:B:PHE:HB3	1:56:B:PHE:HD2	2	0.26
(1,574)	1:49:B:LEU:HA	1:38:B:VAL:HB	13	0.26
(1,574)	1:49:B:LEU:HA	1:38:B:VAL:HB	16	0.26
(1,574)	1:49:B:LEU:HA	1:38:B:VAL:HB	18	0.26
(1,446)	1:49:A:LEU:HD21	1:36:A:TYR:HD1	3	0.26
(1,446)	1:49:A:LEU:HD21	1:36:A:TYR:HD2	3	0.26
(1,446)	1:49:A:LEU:HD22	1:36:A:TYR:HD1	3	0.26
(1,446)	1:49:A:LEU:HD22	1:36:A:TYR:HD2	3	0.26
(1,446)	1:49:A:LEU:HD23	1:36:A:TYR:HD1	3	0.26
(1,446)	1:49:A:LEU:HD23	1:36:A:TYR:HD2	3	0.26
(1,343)	1:21:A:HIS:HD2	1:21:A:HIS:HB3	8	0.26
(1,343)	1:21:A:HIS:HD2	1:21:A:HIS:HB3	12	0.26
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD21	6	0.26
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD22	6	0.26
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD23	6	0.26
(1,164)	1:59:A:LYS:HD2	1:59:A:LYS:HA	8	0.26
(1,164)	1:59:A:LYS:HD3	1:59:A:LYS:HA	8	0.26
(1,162)	1:42:A:LEU:HD21	1:25:A:CYS:HA	11	0.26
(1,162)	1:42:A:LEU:HD22	1:25:A:CYS:HA	11	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,162)	1:42:A:LEU:HD23	1:25:A:CYS:HA	11	0.26
(1,121)	1:61:A:PHE:HB3	1:56:A:PHE:HD1	17	0.26
(1,121)	1:61:A:PHE:HB3	1:56:A:PHE:HD2	17	0.26
(1,93)	1:49:A:LEU:HA	1:38:A:VAL:HB	12	0.26
(1,93)	1:49:A:LEU:HA	1:38:A:VAL:HB	17	0.26
(1,78)	1:36:B:TYR:HE1	1:56:A:PHE:H	15	0.26
(1,78)	1:36:B:TYR:HE2	1:56:A:PHE:H	15	0.26
(1,77)	1:36:A:TYR:HE1	1:56:B:PHE:H	19	0.26
(1,77)	1:36:A:TYR:HE2	1:56:B:PHE:H	19	0.26
(1,34)	1:36:B:TYR:HE1	1:56:A:PHE:HD1	12	0.26
(1,34)	1:36:B:TYR:HE1	1:56:A:PHE:HD2	12	0.26
(1,34)	1:36:B:TYR:HE2	1:56:A:PHE:HD1	12	0.26
(1,34)	1:36:B:TYR:HE2	1:56:A:PHE:HD2	12	0.26
(1,24)	1:30:B:PHE:HE1	1:61:A:PHE:HZ	14	0.26
(1,24)	1:30:B:PHE:HE2	1:61:A:PHE:HZ	14	0.26
(1,23)	1:30:A:PHE:HE1	1:61:B:PHE:HZ	5	0.26
(1,23)	1:30:A:PHE:HE2	1:61:B:PHE:HZ	5	0.26
(1,22)	1:30:B:PHE:HD1	1:23:A:LEU:HG	15	0.26
(1,22)	1:30:B:PHE:HD2	1:23:A:LEU:HG	15	0.26
(1,932)	1:52:B:TYR:HA	1:55:B:HIS:HB2	8	0.25
(1,927)	1:49:B:LEU:HD21	1:36:B:TYR:HD1	20	0.25
(1,927)	1:49:B:LEU:HD21	1:36:B:TYR:HD2	20	0.25
(1,927)	1:49:B:LEU:HD22	1:36:B:TYR:HD1	20	0.25
(1,927)	1:49:B:LEU:HD22	1:36:B:TYR:HD2	20	0.25
(1,927)	1:49:B:LEU:HD23	1:36:B:TYR:HD1	20	0.25
(1,927)	1:49:B:LEU:HD23	1:36:B:TYR:HD2	20	0.25
(1,825)	1:21:B:HIS:HD2	1:21:B:HIS:HB2	3	0.25
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD21	7	0.25
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD22	7	0.25
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD23	7	0.25
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD11	11	0.25
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD12	11	0.25
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD13	11	0.25
(1,635)	1:35:B:SER:HB3	1:31:B:SER:HB2	4	0.25
(1,635)	1:35:B:SER:HB3	1:31:B:SER:HB2	9	0.25
(1,574)	1:49:B:LEU:HA	1:38:B:VAL:HB	8	0.25
(1,571)	1:34:B:ALA:HA	1:36:B:TYR:HD1	5	0.25
(1,571)	1:34:B:ALA:HA	1:36:B:TYR:HD2	5	0.25
(1,571)	1:34:B:ALA:HA	1:36:B:TYR:HD1	10	0.25
(1,571)	1:34:B:ALA:HA	1:36:B:TYR:HD2	10	0.25
(1,571)	1:34:B:ALA:HA	1:36:B:TYR:HD1	11	0.25
(1,571)	1:34:B:ALA:HA	1:36:B:TYR:HD2	11	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,571)	1:34:B:ALA:HA	1:36:B:TYR:HD1	12	0.25
(1,571)	1:34:B:ALA:HA	1:36:B:TYR:HD2	12	0.25
(1,571)	1:34:B:ALA:HA	1:36:B:TYR:HD1	14	0.25
(1,571)	1:34:B:ALA:HA	1:36:B:TYR:HD2	14	0.25
(1,451)	1:52:A:TYR:HA	1:55:A:HIS:HB2	10	0.25
(1,380)	1:44:A:ASP:H	1:44:A:ASP:HB2	4	0.25
(1,249)	1:42:A:LEU:HD11	1:56:A:PHE:HZ	6	0.25
(1,249)	1:42:A:LEU:HD12	1:56:A:PHE:HZ	6	0.25
(1,249)	1:42:A:LEU:HD13	1:56:A:PHE:HZ	6	0.25
(1,249)	1:42:A:LEU:HD11	1:56:A:PHE:HZ	16	0.25
(1,249)	1:42:A:LEU:HD12	1:56:A:PHE:HZ	16	0.25
(1,249)	1:42:A:LEU:HD13	1:56:A:PHE:HZ	16	0.25
(1,241)	1:30:A:PHE:HZ	1:32:A:ALA:HA	10	0.25
(1,182)	1:19:A:GLY:H	1:20:A:TYR:H	11	0.25
(1,162)	1:42:A:LEU:HD21	1:25:A:CYS:HA	2	0.25
(1,162)	1:42:A:LEU:HD22	1:25:A:CYS:HA	2	0.25
(1,162)	1:42:A:LEU:HD23	1:25:A:CYS:HA	2	0.25
(1,154)	1:35:A:SER:HB3	1:31:A:SER:HB2	2	0.25
(1,118)	1:61:A:PHE:HB3	1:57:A:ARG:HA	11	0.25
(1,118)	1:61:A:PHE:HB3	1:57:A:ARG:HA	12	0.25
(1,90)	1:34:A:ALA:HA	1:36:A:TYR:HD1	7	0.25
(1,90)	1:34:A:ALA:HA	1:36:A:TYR:HD2	7	0.25
(1,34)	1:36:B:TYR:HE1	1:56:A:PHE:HD1	1	0.25
(1,34)	1:36:B:TYR:HE1	1:56:A:PHE:HD2	1	0.25
(1,34)	1:36:B:TYR:HE2	1:56:A:PHE:HD1	1	0.25
(1,34)	1:36:B:TYR:HE2	1:56:A:PHE:HD2	1	0.25
(1,34)	1:36:B:TYR:HE1	1:56:A:PHE:HD1	11	0.25
(1,34)	1:36:B:TYR:HE1	1:56:A:PHE:HD2	11	0.25
(1,34)	1:36:B:TYR:HE2	1:56:A:PHE:HD1	11	0.25
(1,34)	1:36:B:TYR:HE2	1:56:A:PHE:HD2	11	0.25
(1,34)	1:36:B:TYR:HE1	1:56:A:PHE:HD1	14	0.25
(1,34)	1:36:B:TYR:HE1	1:56:A:PHE:HD2	14	0.25
(1,34)	1:36:B:TYR:HE2	1:56:A:PHE:HD1	14	0.25
(1,34)	1:36:B:TYR:HE2	1:56:A:PHE:HD2	14	0.25
(1,33)	1:36:A:TYR:HE1	1:56:B:PHE:HD1	11	0.25
(1,33)	1:36:A:TYR:HE1	1:56:B:PHE:HD2	11	0.25
(1,33)	1:36:A:TYR:HE2	1:56:B:PHE:HD1	11	0.25
(1,33)	1:36:A:TYR:HE2	1:56:B:PHE:HD2	11	0.25
(1,22)	1:30:B:PHE:HD1	1:23:A:LEU:HG	18	0.25
(1,22)	1:30:B:PHE:HD2	1:23:A:LEU:HG	18	0.25
(1,1011)	1:47:B:LEU:H	1:39:B:SER:HA	20	0.24
(1,956)	1:63:B:ASN:HB2	1:63:B:ASN:HA	13	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,932)	1:52:B:TYR:HA	1:55:B:HIS:HB2	10	0.24
(1,927)	1:49:B:LEU:HD21	1:36:B:TYR:HD1	14	0.24
(1,927)	1:49:B:LEU:HD21	1:36:B:TYR:HD2	14	0.24
(1,927)	1:49:B:LEU:HD22	1:36:B:TYR:HD1	14	0.24
(1,927)	1:49:B:LEU:HD22	1:36:B:TYR:HD2	14	0.24
(1,927)	1:49:B:LEU:HD23	1:36:B:TYR:HD1	14	0.24
(1,927)	1:49:B:LEU:HD23	1:36:B:TYR:HD2	14	0.24
(1,927)	1:49:B:LEU:HD21	1:36:B:TYR:HD1	15	0.24
(1,927)	1:49:B:LEU:HD21	1:36:B:TYR:HD2	15	0.24
(1,927)	1:49:B:LEU:HD22	1:36:B:TYR:HD1	15	0.24
(1,927)	1:49:B:LEU:HD22	1:36:B:TYR:HD2	15	0.24
(1,927)	1:49:B:LEU:HD23	1:36:B:TYR:HD1	15	0.24
(1,927)	1:49:B:LEU:HD23	1:36:B:TYR:HD2	15	0.24
(1,721)	1:30:B:PHE:HE1	1:32:B:ALA:HA	16	0.24
(1,721)	1:30:B:PHE:HE2	1:32:B:ALA:HA	16	0.24
(1,643)	1:42:B:LEU:HD21	1:25:B:CYS:HA	5	0.24
(1,643)	1:42:B:LEU:HD22	1:25:B:CYS:HA	5	0.24
(1,643)	1:42:B:LEU:HD23	1:25:B:CYS:HA	5	0.24
(1,635)	1:35:B:SER:HB3	1:31:B:SER:HB2	2	0.24
(1,614)	1:52:B:TYR:HB2	1:53:B:PRO:HA	13	0.24
(1,614)	1:52:B:TYR:HB3	1:53:B:PRO:HA	13	0.24
(1,614)	1:52:B:TYR:HB2	1:53:B:PRO:HA	16	0.24
(1,614)	1:52:B:TYR:HB3	1:53:B:PRO:HA	16	0.24
(1,599)	1:61:B:PHE:HB3	1:57:B:ARG:HA	2	0.24
(1,575)	1:37:B:GLU:HA	1:48:B:PRO:HA	11	0.24
(1,571)	1:34:B:ALA:HA	1:36:B:TYR:HD1	20	0.24
(1,571)	1:34:B:ALA:HA	1:36:B:TYR:HD2	20	0.24
(1,530)	1:47:A:LEU:H	1:39:A:SER:HA	17	0.24
(1,518)	1:41:A:LEU:H	1:40:A:CYS:HB2	3	0.24
(1,446)	1:49:A:LEU:HD21	1:36:A:TYR:HD1	4	0.24
(1,446)	1:49:A:LEU:HD21	1:36:A:TYR:HD2	4	0.24
(1,446)	1:49:A:LEU:HD22	1:36:A:TYR:HD1	4	0.24
(1,446)	1:49:A:LEU:HD22	1:36:A:TYR:HD2	4	0.24
(1,446)	1:49:A:LEU:HD23	1:36:A:TYR:HD1	4	0.24
(1,446)	1:49:A:LEU:HD23	1:36:A:TYR:HD2	4	0.24
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD21	15	0.24
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD22	15	0.24
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD23	15	0.24
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD21	16	0.24
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD22	16	0.24
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD23	16	0.24
(1,294)	1:45:A:GLN:H	1:40:A:CYS:HB2	4	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,249)	1:42:A:LEU:HD11	1:56:A:PHE:HZ	15	0.24
(1,249)	1:42:A:LEU:HD12	1:56:A:PHE:HZ	15	0.24
(1,249)	1:42:A:LEU:HD13	1:56:A:PHE:HZ	15	0.24
(1,241)	1:30:A:PHE:HZ	1:32:A:ALA:HA	11	0.24
(1,164)	1:59:A:LYS:HD2	1:59:A:LYS:HA	13	0.24
(1,164)	1:59:A:LYS:HD3	1:59:A:LYS:HA	13	0.24
(1,162)	1:42:A:LEU:HD21	1:25:A:CYS:HA	14	0.24
(1,162)	1:42:A:LEU:HD22	1:25:A:CYS:HA	14	0.24
(1,162)	1:42:A:LEU:HD23	1:25:A:CYS:HA	14	0.24
(1,154)	1:35:A:SER:HB3	1:31:A:SER:HB2	18	0.24
(1,93)	1:49:A:LEU:HA	1:38:A:VAL:HB	14	0.24
(1,90)	1:34:A:ALA:HA	1:36:A:TYR:HD1	1	0.24
(1,90)	1:34:A:ALA:HA	1:36:A:TYR:HD2	1	0.24
(1,78)	1:36:B:TYR:HE1	1:56:A:PHE:H	18	0.24
(1,78)	1:36:B:TYR:HE2	1:56:A:PHE:H	18	0.24
(1,77)	1:36:A:TYR:HE1	1:56:B:PHE:H	2	0.24
(1,77)	1:36:A:TYR:HE2	1:56:B:PHE:H	2	0.24
(1,77)	1:36:A:TYR:HE1	1:56:B:PHE:H	4	0.24
(1,77)	1:36:A:TYR:HE2	1:56:B:PHE:H	4	0.24
(1,77)	1:36:A:TYR:HE1	1:56:B:PHE:H	11	0.24
(1,77)	1:36:A:TYR:HE2	1:56:B:PHE:H	11	0.24
(1,34)	1:36:B:TYR:HE1	1:56:A:PHE:HD1	9	0.24
(1,34)	1:36:B:TYR:HE1	1:56:A:PHE:HD2	9	0.24
(1,34)	1:36:B:TYR:HE2	1:56:A:PHE:HD1	9	0.24
(1,34)	1:36:B:TYR:HE2	1:56:A:PHE:HD2	9	0.24
(1,24)	1:30:B:PHE:HE1	1:61:A:PHE:HZ	2	0.24
(1,24)	1:30:B:PHE:HE2	1:61:A:PHE:HZ	2	0.24
(1,24)	1:30:B:PHE:HE1	1:61:A:PHE:HZ	5	0.24
(1,24)	1:30:B:PHE:HE2	1:61:A:PHE:HZ	5	0.24
(1,23)	1:30:A:PHE:HE1	1:61:B:PHE:HZ	16	0.24
(1,23)	1:30:A:PHE:HE2	1:61:B:PHE:HZ	16	0.24
(1,19)	1:21:A:HIS:HA	1:31:B:SER:HA	6	0.24
(1,1040)	1:62:B:THR:H	1:62:B:THR:HG21	14	0.23
(1,1040)	1:62:B:THR:H	1:62:B:THR:HG22	14	0.23
(1,1040)	1:62:B:THR:H	1:62:B:THR:HG23	14	0.23
(1,932)	1:52:B:TYR:HA	1:55:B:HIS:HB2	1	0.23
(1,932)	1:52:B:TYR:HA	1:55:B:HIS:HB2	17	0.23
(1,932)	1:52:B:TYR:HA	1:55:B:HIS:HB2	19	0.23
(1,927)	1:49:B:LEU:HD21	1:36:B:TYR:HD1	4	0.23
(1,927)	1:49:B:LEU:HD21	1:36:B:TYR:HD2	4	0.23
(1,927)	1:49:B:LEU:HD22	1:36:B:TYR:HD1	4	0.23
(1,927)	1:49:B:LEU:HD22	1:36:B:TYR:HD2	4	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,927)	1:49:B:LEU:HD23	1:36:B:TYR:HD1	4	0.23
(1,927)	1:49:B:LEU:HD23	1:36:B:TYR:HD2	4	0.23
(1,927)	1:49:B:LEU:HD21	1:36:B:TYR:HD1	11	0.23
(1,927)	1:49:B:LEU:HD21	1:36:B:TYR:HD2	11	0.23
(1,927)	1:49:B:LEU:HD22	1:36:B:TYR:HD1	11	0.23
(1,927)	1:49:B:LEU:HD22	1:36:B:TYR:HD2	11	0.23
(1,927)	1:49:B:LEU:HD23	1:36:B:TYR:HD1	11	0.23
(1,927)	1:49:B:LEU:HD23	1:36:B:TYR:HD2	11	0.23
(1,927)	1:49:B:LEU:HD21	1:36:B:TYR:HD1	16	0.23
(1,927)	1:49:B:LEU:HD21	1:36:B:TYR:HD2	16	0.23
(1,927)	1:49:B:LEU:HD22	1:36:B:TYR:HD1	16	0.23
(1,927)	1:49:B:LEU:HD22	1:36:B:TYR:HD2	16	0.23
(1,927)	1:49:B:LEU:HD23	1:36:B:TYR:HD1	16	0.23
(1,927)	1:49:B:LEU:HD23	1:36:B:TYR:HD2	16	0.23
(1,927)	1:49:B:LEU:HD21	1:36:B:TYR:HD1	18	0.23
(1,927)	1:49:B:LEU:HD21	1:36:B:TYR:HD2	18	0.23
(1,927)	1:49:B:LEU:HD22	1:36:B:TYR:HD1	18	0.23
(1,927)	1:49:B:LEU:HD22	1:36:B:TYR:HD2	18	0.23
(1,927)	1:49:B:LEU:HD23	1:36:B:TYR:HD1	18	0.23
(1,927)	1:49:B:LEU:HD23	1:36:B:TYR:HD2	18	0.23
(1,825)	1:21:B:HIS:HD2	1:21:B:HIS:HB2	2	0.23
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD21	14	0.23
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD22	14	0.23
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD23	14	0.23
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD21	17	0.23
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD22	17	0.23
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD23	17	0.23
(1,775)	1:45:B:GLN:H	1:40:B:CYS:HB2	5	0.23
(1,775)	1:45:B:GLN:H	1:40:B:CYS:HB2	15	0.23
(1,722)	1:30:B:PHE:HZ	1:32:B:ALA:HA	14	0.23
(1,721)	1:30:B:PHE:HE1	1:32:B:ALA:HA	19	0.23
(1,721)	1:30:B:PHE:HE2	1:32:B:ALA:HA	19	0.23
(1,643)	1:42:B:LEU:HD21	1:25:B:CYS:HA	13	0.23
(1,643)	1:42:B:LEU:HD22	1:25:B:CYS:HA	13	0.23
(1,643)	1:42:B:LEU:HD23	1:25:B:CYS:HA	13	0.23
(1,643)	1:42:B:LEU:HD21	1:25:B:CYS:HA	16	0.23
(1,643)	1:42:B:LEU:HD22	1:25:B:CYS:HA	16	0.23
(1,643)	1:42:B:LEU:HD23	1:25:B:CYS:HA	16	0.23
(1,643)	1:42:B:LEU:HD21	1:25:B:CYS:HA	18	0.23
(1,643)	1:42:B:LEU:HD22	1:25:B:CYS:HA	18	0.23
(1,643)	1:42:B:LEU:HD23	1:25:B:CYS:HA	18	0.23
(1,635)	1:35:B:SER:HB3	1:31:B:SER:HB2	14	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,614)	1:52:B:TYR:HB2	1:53:B:PRO:HA	15	0.23
(1,614)	1:52:B:TYR:HB3	1:53:B:PRO:HA	15	0.23
(1,614)	1:52:B:TYR:HB2	1:53:B:PRO:HA	20	0.23
(1,614)	1:52:B:TYR:HB3	1:53:B:PRO:HA	20	0.23
(1,575)	1:37:B:GLU:HA	1:48:B:PRO:HA	19	0.23
(1,571)	1:34:B:ALA:HA	1:36:B:TYR:HD1	16	0.23
(1,571)	1:34:B:ALA:HA	1:36:B:TYR:HD2	16	0.23
(1,530)	1:47:A:LEU:H	1:39:A:SER:HA	1	0.23
(1,446)	1:49:A:LEU:HD21	1:36:A:TYR:HD1	8	0.23
(1,446)	1:49:A:LEU:HD21	1:36:A:TYR:HD2	8	0.23
(1,446)	1:49:A:LEU:HD22	1:36:A:TYR:HD1	8	0.23
(1,446)	1:49:A:LEU:HD22	1:36:A:TYR:HD2	8	0.23
(1,446)	1:49:A:LEU:HD23	1:36:A:TYR:HD1	8	0.23
(1,446)	1:49:A:LEU:HD23	1:36:A:TYR:HD2	8	0.23
(1,446)	1:49:A:LEU:HD21	1:36:A:TYR:HD1	15	0.23
(1,446)	1:49:A:LEU:HD21	1:36:A:TYR:HD2	15	0.23
(1,446)	1:49:A:LEU:HD22	1:36:A:TYR:HD1	15	0.23
(1,446)	1:49:A:LEU:HD22	1:36:A:TYR:HD2	15	0.23
(1,446)	1:49:A:LEU:HD23	1:36:A:TYR:HD1	15	0.23
(1,446)	1:49:A:LEU:HD23	1:36:A:TYR:HD2	15	0.23
(1,344)	1:21:A:HIS:HD2	1:21:A:HIS:HB2	17	0.23
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD21	8	0.23
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD22	8	0.23
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD23	8	0.23
(1,294)	1:45:A:GLN:H	1:40:A:CYS:HB2	11	0.23
(1,294)	1:45:A:GLN:H	1:40:A:CYS:HB2	12	0.23
(1,241)	1:30:A:PHE:HZ	1:32:A:ALA:HA	2	0.23
(1,241)	1:30:A:PHE:HZ	1:32:A:ALA:HA	8	0.23
(1,241)	1:30:A:PHE:HZ	1:32:A:ALA:HA	9	0.23
(1,241)	1:30:A:PHE:HZ	1:32:A:ALA:HA	14	0.23
(1,241)	1:30:A:PHE:HZ	1:32:A:ALA:HA	18	0.23
(1,241)	1:30:A:PHE:HZ	1:32:A:ALA:HA	19	0.23
(1,240)	1:30:A:PHE:HE1	1:32:A:ALA:HA	7	0.23
(1,240)	1:30:A:PHE:HE2	1:32:A:ALA:HA	7	0.23
(1,133)	1:52:A:TYR:HB2	1:53:A:PRO:HA	1	0.23
(1,133)	1:52:A:TYR:HB3	1:53:A:PRO:HA	1	0.23
(1,133)	1:52:A:TYR:HB2	1:53:A:PRO:HA	2	0.23
(1,133)	1:52:A:TYR:HB3	1:53:A:PRO:HA	2	0.23
(1,133)	1:52:A:TYR:HB2	1:53:A:PRO:HA	3	0.23
(1,133)	1:52:A:TYR:HB3	1:53:A:PRO:HA	3	0.23
(1,133)	1:52:A:TYR:HB2	1:53:A:PRO:HA	4	0.23
(1,133)	1:52:A:TYR:HB3	1:53:A:PRO:HA	4	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,133)	1:52:A:TYR:HB2	1:53:A:PRO:HA	9	0.23
(1,133)	1:52:A:TYR:HB3	1:53:A:PRO:HA	9	0.23
(1,133)	1:52:A:TYR:HB2	1:53:A:PRO:HA	11	0.23
(1,133)	1:52:A:TYR:HB3	1:53:A:PRO:HA	11	0.23
(1,133)	1:52:A:TYR:HB2	1:53:A:PRO:HA	12	0.23
(1,133)	1:52:A:TYR:HB3	1:53:A:PRO:HA	12	0.23
(1,133)	1:52:A:TYR:HB2	1:53:A:PRO:HA	17	0.23
(1,133)	1:52:A:TYR:HB3	1:53:A:PRO:HA	17	0.23
(1,94)	1:37:A:GLU:HA	1:48:A:PRO:HA	18	0.23
(1,90)	1:34:A:ALA:HA	1:36:A:TYR:HD1	8	0.23
(1,90)	1:34:A:ALA:HA	1:36:A:TYR:HD2	8	0.23
(1,90)	1:34:A:ALA:HA	1:36:A:TYR:HD1	17	0.23
(1,90)	1:34:A:ALA:HA	1:36:A:TYR:HD2	17	0.23
(1,77)	1:36:A:TYR:HE1	1:56:B:PHE:H	14	0.23
(1,77)	1:36:A:TYR:HE2	1:56:B:PHE:H	14	0.23
(1,75)	1:22:A:ASN:H	1:32:B:ALA:H	8	0.23
(1,34)	1:36:B:TYR:HE1	1:56:A:PHE:HD1	20	0.23
(1,34)	1:36:B:TYR:HE1	1:56:A:PHE:HD2	20	0.23
(1,34)	1:36:B:TYR:HE2	1:56:A:PHE:HD1	20	0.23
(1,34)	1:36:B:TYR:HE2	1:56:A:PHE:HD2	20	0.23
(1,23)	1:30:A:PHE:HE1	1:61:B:PHE:HZ	13	0.23
(1,23)	1:30:A:PHE:HE2	1:61:B:PHE:HZ	13	0.23
(1,22)	1:30:B:PHE:HD1	1:23:A:LEU:HG	11	0.23
(1,22)	1:30:B:PHE:HD2	1:23:A:LEU:HG	11	0.23
(1,22)	1:30:B:PHE:HD1	1:23:A:LEU:HG	16	0.23
(1,22)	1:30:B:PHE:HD2	1:23:A:LEU:HG	16	0.23
(1,1040)	1:62:B:THR:H	1:62:B:THR:HG21	2	0.22
(1,1040)	1:62:B:THR:H	1:62:B:THR:HG22	2	0.22
(1,1040)	1:62:B:THR:H	1:62:B:THR:HG23	2	0.22
(1,1040)	1:62:B:THR:H	1:62:B:THR:HG21	7	0.22
(1,1040)	1:62:B:THR:H	1:62:B:THR:HG22	7	0.22
(1,1040)	1:62:B:THR:H	1:62:B:THR:HG23	7	0.22
(1,1011)	1:47:B:LEU:H	1:39:B:SER:HA	3	0.22
(1,999)	1:41:B:LEU:H	1:40:B:CYS:HB2	2	0.22
(1,999)	1:41:B:LEU:H	1:40:B:CYS:HB2	16	0.22
(1,956)	1:63:B:ASN:HB2	1:63:B:ASN:HA	2	0.22
(1,932)	1:52:B:TYR:HA	1:55:B:HIS:HB2	6	0.22
(1,932)	1:52:B:TYR:HA	1:55:B:HIS:HB2	7	0.22
(1,932)	1:52:B:TYR:HA	1:55:B:HIS:HB2	12	0.22
(1,927)	1:49:B:LEU:HD21	1:36:B:TYR:HD1	5	0.22
(1,927)	1:49:B:LEU:HD21	1:36:B:TYR:HD2	5	0.22
(1,927)	1:49:B:LEU:HD22	1:36:B:TYR:HD1	5	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,927)	1:49:B:LEU:HD22	1:36:B:TYR:HD2	5	0.22
(1,927)	1:49:B:LEU:HD23	1:36:B:TYR:HD1	5	0.22
(1,927)	1:49:B:LEU:HD23	1:36:B:TYR:HD2	5	0.22
(1,927)	1:49:B:LEU:HD21	1:36:B:TYR:HD1	17	0.22
(1,927)	1:49:B:LEU:HD21	1:36:B:TYR:HD2	17	0.22
(1,927)	1:49:B:LEU:HD22	1:36:B:TYR:HD1	17	0.22
(1,927)	1:49:B:LEU:HD22	1:36:B:TYR:HD2	17	0.22
(1,927)	1:49:B:LEU:HD23	1:36:B:TYR:HD1	17	0.22
(1,927)	1:49:B:LEU:HD23	1:36:B:TYR:HD2	17	0.22
(1,856)	1:43:B:CYS:H	1:42:B:LEU:HB3	2	0.22
(1,800)	1:47:B:LEU:H	1:46:B:ARG:HG2	17	0.22
(1,800)	1:47:B:LEU:H	1:46:B:ARG:HG3	17	0.22
(1,775)	1:45:B:GLN:H	1:40:B:CYS:HB2	13	0.22
(1,775)	1:45:B:GLN:H	1:40:B:CYS:HB2	18	0.22
(1,730)	1:42:B:LEU:HD11	1:56:B:PHE:HZ	1	0.22
(1,730)	1:42:B:LEU:HD12	1:56:B:PHE:HZ	1	0.22
(1,730)	1:42:B:LEU:HD13	1:56:B:PHE:HZ	1	0.22
(1,722)	1:30:B:PHE:HZ	1:32:B:ALA:HA	9	0.22
(1,722)	1:30:B:PHE:HZ	1:32:B:ALA:HA	18	0.22
(1,721)	1:30:B:PHE:HE1	1:32:B:ALA:HA	15	0.22
(1,721)	1:30:B:PHE:HE2	1:32:B:ALA:HA	15	0.22
(1,643)	1:42:B:LEU:HD21	1:25:B:CYS:HA	4	0.22
(1,643)	1:42:B:LEU:HD22	1:25:B:CYS:HA	4	0.22
(1,643)	1:42:B:LEU:HD23	1:25:B:CYS:HA	4	0.22
(1,635)	1:35:B:SER:HB3	1:31:B:SER:HB2	17	0.22
(1,614)	1:52:B:TYR:HB2	1:53:B:PRO:HA	2	0.22
(1,614)	1:52:B:TYR:HB3	1:53:B:PRO:HA	2	0.22
(1,614)	1:52:B:TYR:HB2	1:53:B:PRO:HA	4	0.22
(1,614)	1:52:B:TYR:HB3	1:53:B:PRO:HA	4	0.22
(1,614)	1:52:B:TYR:HB2	1:53:B:PRO:HA	5	0.22
(1,614)	1:52:B:TYR:HB3	1:53:B:PRO:HA	5	0.22
(1,614)	1:52:B:TYR:HB2	1:53:B:PRO:HA	18	0.22
(1,614)	1:52:B:TYR:HB3	1:53:B:PRO:HA	18	0.22
(1,602)	1:61:B:PHE:HB3	1:56:B:PHE:HD1	1	0.22
(1,602)	1:61:B:PHE:HB3	1:56:B:PHE:HD2	1	0.22
(1,602)	1:61:B:PHE:HB3	1:56:B:PHE:HD1	3	0.22
(1,602)	1:61:B:PHE:HB3	1:56:B:PHE:HD2	3	0.22
(1,602)	1:61:B:PHE:HB3	1:56:B:PHE:HD1	8	0.22
(1,602)	1:61:B:PHE:HB3	1:56:B:PHE:HD2	8	0.22
(1,602)	1:61:B:PHE:HB3	1:56:B:PHE:HD1	17	0.22
(1,602)	1:61:B:PHE:HB3	1:56:B:PHE:HD2	17	0.22
(1,574)	1:49:B:LEU:HA	1:38:B:VAL:HB	10	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,530)	1:47:A:LEU:H	1:39:A:SER:HA	7	0.22
(1,451)	1:52:A:TYR:HA	1:55:A:HIS:HB2	8	0.22
(1,446)	1:49:A:LEU:HD21	1:36:A:TYR:HD1	20	0.22
(1,446)	1:49:A:LEU:HD21	1:36:A:TYR:HD2	20	0.22
(1,446)	1:49:A:LEU:HD22	1:36:A:TYR:HD1	20	0.22
(1,446)	1:49:A:LEU:HD22	1:36:A:TYR:HD2	20	0.22
(1,446)	1:49:A:LEU:HD23	1:36:A:TYR:HD1	20	0.22
(1,446)	1:49:A:LEU:HD23	1:36:A:TYR:HD2	20	0.22
(1,344)	1:21:A:HIS:HD2	1:21:A:HIS:HB2	5	0.22
(1,343)	1:21:A:HIS:HD2	1:21:A:HIS:HB3	5	0.22
(1,319)	1:47:A:LEU:H	1:46:A:ARG:HG2	13	0.22
(1,319)	1:47:A:LEU:H	1:46:A:ARG:HG3	13	0.22
(1,315)	1:54:A:GLU:H	1:54:A:GLU:HG2	11	0.22
(1,315)	1:54:A:GLU:H	1:54:A:GLU:HG3	11	0.22
(1,294)	1:45:A:GLN:H	1:40:A:CYS:HB2	2	0.22
(1,294)	1:45:A:GLN:H	1:40:A:CYS:HB2	19	0.22
(1,294)	1:45:A:GLN:H	1:40:A:CYS:HB2	20	0.22
(1,248)	1:56:A:PHE:HE1	1:61:A:PHE:HB3	6	0.22
(1,248)	1:56:A:PHE:HE2	1:61:A:PHE:HB3	6	0.22
(1,241)	1:30:A:PHE:HZ	1:32:A:ALA:HA	16	0.22
(1,240)	1:30:A:PHE:HE1	1:32:A:ALA:HA	13	0.22
(1,240)	1:30:A:PHE:HE2	1:32:A:ALA:HA	13	0.22
(1,178)	1:27:A:GLU:H	1:41:A:LEU:HD21	1	0.22
(1,178)	1:27:A:GLU:H	1:41:A:LEU:HD22	1	0.22
(1,178)	1:27:A:GLU:H	1:41:A:LEU:HD23	1	0.22
(1,162)	1:42:A:LEU:HD21	1:25:A:CYS:HA	3	0.22
(1,162)	1:42:A:LEU:HD22	1:25:A:CYS:HA	3	0.22
(1,162)	1:42:A:LEU:HD23	1:25:A:CYS:HA	3	0.22
(1,162)	1:42:A:LEU:HD21	1:25:A:CYS:HA	4	0.22
(1,162)	1:42:A:LEU:HD22	1:25:A:CYS:HA	4	0.22
(1,162)	1:42:A:LEU:HD23	1:25:A:CYS:HA	4	0.22
(1,162)	1:42:A:LEU:HD21	1:25:A:CYS:HA	5	0.22
(1,162)	1:42:A:LEU:HD22	1:25:A:CYS:HA	5	0.22
(1,162)	1:42:A:LEU:HD23	1:25:A:CYS:HA	5	0.22
(1,162)	1:42:A:LEU:HD21	1:25:A:CYS:HA	19	0.22
(1,162)	1:42:A:LEU:HD22	1:25:A:CYS:HA	19	0.22
(1,162)	1:42:A:LEU:HD23	1:25:A:CYS:HA	19	0.22
(1,133)	1:52:A:TYR:HB2	1:53:A:PRO:HA	5	0.22
(1,133)	1:52:A:TYR:HB3	1:53:A:PRO:HA	5	0.22
(1,133)	1:52:A:TYR:HB2	1:53:A:PRO:HA	7	0.22
(1,133)	1:52:A:TYR:HB3	1:53:A:PRO:HA	7	0.22
(1,133)	1:52:A:TYR:HB2	1:53:A:PRO:HA	14	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,133)	1:52:A:TYR:HB3	1:53:A:PRO:HA	14	0.22
(1,133)	1:52:A:TYR:HB2	1:53:A:PRO:HA	19	0.22
(1,133)	1:52:A:TYR:HB3	1:53:A:PRO:HA	19	0.22
(1,133)	1:52:A:TYR:HB2	1:53:A:PRO:HA	20	0.22
(1,133)	1:52:A:TYR:HB3	1:53:A:PRO:HA	20	0.22
(1,121)	1:61:A:PHE:HB3	1:56:A:PHE:HD1	1	0.22
(1,121)	1:61:A:PHE:HB3	1:56:A:PHE:HD2	1	0.22
(1,121)	1:61:A:PHE:HB3	1:56:A:PHE:HD1	15	0.22
(1,121)	1:61:A:PHE:HB3	1:56:A:PHE:HD2	15	0.22
(1,93)	1:49:A:LEU:HA	1:38:A:VAL:HB	2	0.22
(1,93)	1:49:A:LEU:HA	1:38:A:VAL:HB	20	0.22
(1,78)	1:36:B:TYR:HE1	1:56:A:PHE:H	13	0.22
(1,78)	1:36:B:TYR:HE2	1:56:A:PHE:H	13	0.22
(1,77)	1:36:A:TYR:HE1	1:56:B:PHE:H	6	0.22
(1,77)	1:36:A:TYR:HE2	1:56:B:PHE:H	6	0.22
(1,70)	1:32:B:ALA:H	1:20:A:TYR:HB2	16	0.22
(1,34)	1:36:B:TYR:HE1	1:56:A:PHE:HD1	6	0.22
(1,34)	1:36:B:TYR:HE1	1:56:A:PHE:HD2	6	0.22
(1,34)	1:36:B:TYR:HE2	1:56:A:PHE:HD1	6	0.22
(1,34)	1:36:B:TYR:HE2	1:56:A:PHE:HD2	6	0.22
(1,34)	1:36:B:TYR:HE1	1:56:A:PHE:HD1	19	0.22
(1,34)	1:36:B:TYR:HE1	1:56:A:PHE:HD2	19	0.22
(1,34)	1:36:B:TYR:HE2	1:56:A:PHE:HD1	19	0.22
(1,34)	1:36:B:TYR:HE2	1:56:A:PHE:HD2	19	0.22
(1,22)	1:30:B:PHE:HD1	1:23:A:LEU:HG	19	0.22
(1,22)	1:30:B:PHE:HD2	1:23:A:LEU:HG	19	0.22
(1,999)	1:41:B:LEU:H	1:40:B:CYS:HB2	3	0.21
(1,999)	1:41:B:LEU:H	1:40:B:CYS:HB2	5	0.21
(1,956)	1:63:B:ASN:HB2	1:63:B:ASN:HA	18	0.21
(1,932)	1:52:B:TYR:HA	1:55:B:HIS:HB2	14	0.21
(1,927)	1:49:B:LEU:HD21	1:36:B:TYR:HD1	8	0.21
(1,927)	1:49:B:LEU:HD21	1:36:B:TYR:HD2	8	0.21
(1,927)	1:49:B:LEU:HD22	1:36:B:TYR:HD1	8	0.21
(1,927)	1:49:B:LEU:HD22	1:36:B:TYR:HD2	8	0.21
(1,927)	1:49:B:LEU:HD23	1:36:B:TYR:HD1	8	0.21
(1,927)	1:49:B:LEU:HD23	1:36:B:TYR:HD2	8	0.21
(1,856)	1:43:B:CYS:H	1:42:B:LEU:HB3	5	0.21
(1,856)	1:43:B:CYS:H	1:42:B:LEU:HB3	15	0.21
(1,842)	1:24:B:ARG:H	1:23:B:LEU:HB3	10	0.21
(1,842)	1:24:B:ARG:H	1:23:B:LEU:HB3	16	0.21
(1,775)	1:45:B:GLN:H	1:40:B:CYS:HB2	4	0.21
(1,775)	1:45:B:GLN:H	1:40:B:CYS:HB2	16	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,722)	1:30:B:PHE:HZ	1:32:B:ALA:HA	2	0.21
(1,722)	1:30:B:PHE:HZ	1:32:B:ALA:HA	3	0.21
(1,722)	1:30:B:PHE:HZ	1:32:B:ALA:HA	13	0.21
(1,722)	1:30:B:PHE:HZ	1:32:B:ALA:HA	20	0.21
(1,721)	1:30:B:PHE:HE1	1:32:B:ALA:HA	1	0.21
(1,721)	1:30:B:PHE:HE2	1:32:B:ALA:HA	1	0.21
(1,721)	1:30:B:PHE:HE1	1:32:B:ALA:HA	20	0.21
(1,721)	1:30:B:PHE:HE2	1:32:B:ALA:HA	20	0.21
(1,678)	1:56:B:PHE:H	1:55:B:HIS:HB2	2	0.21
(1,678)	1:56:B:PHE:H	1:55:B:HIS:HB2	4	0.21
(1,663)	1:19:B:GLY:H	1:20:B:TYR:H	10	0.21
(1,659)	1:27:B:GLU:H	1:41:B:LEU:HD21	5	0.21
(1,659)	1:27:B:GLU:H	1:41:B:LEU:HD22	5	0.21
(1,659)	1:27:B:GLU:H	1:41:B:LEU:HD23	5	0.21
(1,659)	1:27:B:GLU:H	1:41:B:LEU:HD21	13	0.21
(1,659)	1:27:B:GLU:H	1:41:B:LEU:HD22	13	0.21
(1,659)	1:27:B:GLU:H	1:41:B:LEU:HD23	13	0.21
(1,614)	1:52:B:TYR:HB2	1:53:B:PRO:HA	3	0.21
(1,614)	1:52:B:TYR:HB3	1:53:B:PRO:HA	3	0.21
(1,614)	1:52:B:TYR:HB2	1:53:B:PRO:HA	11	0.21
(1,614)	1:52:B:TYR:HB3	1:53:B:PRO:HA	11	0.21
(1,602)	1:61:B:PHE:HB3	1:56:B:PHE:HD1	10	0.21
(1,602)	1:61:B:PHE:HB3	1:56:B:PHE:HD2	10	0.21
(1,575)	1:37:B:GLU:HA	1:48:B:PRO:HA	8	0.21
(1,575)	1:37:B:GLU:HA	1:48:B:PRO:HA	9	0.21
(1,575)	1:37:B:GLU:HA	1:48:B:PRO:HA	12	0.21
(1,574)	1:49:B:LEU:HA	1:38:B:VAL:HB	2	0.21
(1,574)	1:49:B:LEU:HA	1:38:B:VAL:HB	5	0.21
(1,566)	1:20:B:TYR:HE1	1:61:B:PHE:HA	18	0.21
(1,566)	1:20:B:TYR:HE2	1:61:B:PHE:HA	18	0.21
(1,530)	1:47:A:LEU:H	1:39:A:SER:HA	9	0.21
(1,518)	1:41:A:LEU:H	1:40:A:CYS:HB2	4	0.21
(1,518)	1:41:A:LEU:H	1:40:A:CYS:HB2	5	0.21
(1,518)	1:41:A:LEU:H	1:40:A:CYS:HB2	14	0.21
(1,475)	1:63:A:ASN:HB2	1:63:A:ASN:HA	2	0.21
(1,475)	1:63:A:ASN:HB2	1:63:A:ASN:HA	13	0.21
(1,375)	1:43:A:CYS:H	1:42:A:LEU:HB3	3	0.21
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD21	10	0.21
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD22	10	0.21
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD23	10	0.21
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD21	13	0.21
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD22	13	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD23	13	0.21
(1,294)	1:45:A:GLN:H	1:40:A:CYS:HB2	14	0.21
(1,249)	1:42:A:LEU:HD11	1:56:A:PHE:HZ	10	0.21
(1,249)	1:42:A:LEU:HD12	1:56:A:PHE:HZ	10	0.21
(1,249)	1:42:A:LEU:HD13	1:56:A:PHE:HZ	10	0.21
(1,241)	1:30:A:PHE:HZ	1:32:A:ALA:HA	5	0.21
(1,241)	1:30:A:PHE:HZ	1:32:A:ALA:HA	17	0.21
(1,240)	1:30:A:PHE:HE1	1:32:A:ALA:HA	4	0.21
(1,240)	1:30:A:PHE:HE2	1:32:A:ALA:HA	4	0.21
(1,240)	1:30:A:PHE:HE1	1:32:A:ALA:HA	8	0.21
(1,240)	1:30:A:PHE:HE2	1:32:A:ALA:HA	8	0.21
(1,240)	1:30:A:PHE:HE1	1:32:A:ALA:HA	17	0.21
(1,240)	1:30:A:PHE:HE2	1:32:A:ALA:HA	17	0.21
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD11	7	0.21
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD12	7	0.21
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD13	7	0.21
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD11	14	0.21
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD12	14	0.21
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD13	14	0.21
(1,178)	1:27:A:GLU:H	1:41:A:LEU:HD21	9	0.21
(1,178)	1:27:A:GLU:H	1:41:A:LEU:HD22	9	0.21
(1,178)	1:27:A:GLU:H	1:41:A:LEU:HD23	9	0.21
(1,178)	1:27:A:GLU:H	1:41:A:LEU:HD21	11	0.21
(1,178)	1:27:A:GLU:H	1:41:A:LEU:HD22	11	0.21
(1,178)	1:27:A:GLU:H	1:41:A:LEU:HD23	11	0.21
(1,164)	1:59:A:LYS:HD2	1:59:A:LYS:HA	16	0.21
(1,164)	1:59:A:LYS:HD3	1:59:A:LYS:HA	16	0.21
(1,162)	1:42:A:LEU:HD21	1:25:A:CYS:HA	1	0.21
(1,162)	1:42:A:LEU:HD22	1:25:A:CYS:HA	1	0.21
(1,162)	1:42:A:LEU:HD23	1:25:A:CYS:HA	1	0.21
(1,162)	1:42:A:LEU:HD21	1:25:A:CYS:HA	17	0.21
(1,162)	1:42:A:LEU:HD22	1:25:A:CYS:HA	17	0.21
(1,162)	1:42:A:LEU:HD23	1:25:A:CYS:HA	17	0.21
(1,133)	1:52:A:TYR:HB2	1:53:A:PRO:HA	6	0.21
(1,133)	1:52:A:TYR:HB3	1:53:A:PRO:HA	6	0.21
(1,133)	1:52:A:TYR:HB2	1:53:A:PRO:HA	8	0.21
(1,133)	1:52:A:TYR:HB3	1:53:A:PRO:HA	8	0.21
(1,133)	1:52:A:TYR:HB2	1:53:A:PRO:HA	13	0.21
(1,133)	1:52:A:TYR:HB3	1:53:A:PRO:HA	13	0.21
(1,127)	1:59:A:LYS:H	1:58:A:LEU:HB3	2	0.21
(1,121)	1:61:A:PHE:HB3	1:56:A:PHE:HD1	10	0.21
(1,121)	1:61:A:PHE:HB3	1:56:A:PHE:HD2	10	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,93)	1:49:A:LEU:HA	1:38:A:VAL:HB	5	0.21
(1,93)	1:49:A:LEU:HA	1:38:A:VAL:HB	7	0.21
(1,93)	1:49:A:LEU:HA	1:38:A:VAL:HB	13	0.21
(1,93)	1:49:A:LEU:HA	1:38:A:VAL:HB	16	0.21
(1,90)	1:34:A:ALA:HA	1:36:A:TYR:HD1	3	0.21
(1,90)	1:34:A:ALA:HA	1:36:A:TYR:HD2	3	0.21
(1,78)	1:36:B:TYR:HE1	1:56:A:PHE:H	11	0.21
(1,78)	1:36:B:TYR:HE2	1:56:A:PHE:H	11	0.21
(1,77)	1:36:A:TYR:HE1	1:56:B:PHE:H	1	0.21
(1,77)	1:36:A:TYR:HE2	1:56:B:PHE:H	1	0.21
(1,77)	1:36:A:TYR:HE1	1:56:B:PHE:H	12	0.21
(1,77)	1:36:A:TYR:HE2	1:56:B:PHE:H	12	0.21
(1,34)	1:36:B:TYR:HE1	1:56:A:PHE:HD1	2	0.21
(1,34)	1:36:B:TYR:HE1	1:56:A:PHE:HD2	2	0.21
(1,34)	1:36:B:TYR:HE2	1:56:A:PHE:HD1	2	0.21
(1,34)	1:36:B:TYR:HE2	1:56:A:PHE:HD2	2	0.21
(1,33)	1:36:A:TYR:HE1	1:56:B:PHE:HD1	3	0.21
(1,33)	1:36:A:TYR:HE1	1:56:B:PHE:HD2	3	0.21
(1,33)	1:36:A:TYR:HE2	1:56:B:PHE:HD1	3	0.21
(1,33)	1:36:A:TYR:HE2	1:56:B:PHE:HD2	3	0.21
(1,33)	1:36:A:TYR:HE1	1:56:B:PHE:HD1	13	0.21
(1,33)	1:36:A:TYR:HE1	1:56:B:PHE:HD2	13	0.21
(1,33)	1:36:A:TYR:HE2	1:56:B:PHE:HD1	13	0.21
(1,33)	1:36:A:TYR:HE2	1:56:B:PHE:HD2	13	0.21
(1,24)	1:30:B:PHE:HE1	1:61:A:PHE:HZ	4	0.21
(1,24)	1:30:B:PHE:HE2	1:61:A:PHE:HZ	4	0.21
(1,23)	1:30:A:PHE:HE1	1:61:B:PHE:HZ	4	0.21
(1,23)	1:30:A:PHE:HE2	1:61:B:PHE:HZ	4	0.21
(1,22)	1:30:B:PHE:HD1	1:23:A:LEU:HG	3	0.21
(1,22)	1:30:B:PHE:HD2	1:23:A:LEU:HG	3	0.21
(1,22)	1:30:B:PHE:HD1	1:23:A:LEU:HG	10	0.21
(1,22)	1:30:B:PHE:HD2	1:23:A:LEU:HG	10	0.21
(1,21)	1:30:A:PHE:HD1	1:23:B:LEU:HG	1	0.21
(1,21)	1:30:A:PHE:HD2	1:23:B:LEU:HG	1	0.21
(1,21)	1:30:A:PHE:HD1	1:23:B:LEU:HG	3	0.21
(1,21)	1:30:A:PHE:HD2	1:23:B:LEU:HG	3	0.21
(1,21)	1:30:A:PHE:HD1	1:23:B:LEU:HG	4	0.21
(1,21)	1:30:A:PHE:HD2	1:23:B:LEU:HG	4	0.21
(1,21)	1:30:A:PHE:HD1	1:23:B:LEU:HG	15	0.21
(1,21)	1:30:A:PHE:HD2	1:23:B:LEU:HG	15	0.21
(1,21)	1:30:A:PHE:HD1	1:23:B:LEU:HG	20	0.21
(1,21)	1:30:A:PHE:HD2	1:23:B:LEU:HG	20	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,959)	1:21:B:HIS:H	1:20:B:TYR:HA	4	0.2
(1,951)	1:60:B:HIS:HB3	1:60:B:HIS:HD2	15	0.2
(1,932)	1:52:B:TYR:HA	1:55:B:HIS:HB2	9	0.2
(1,856)	1:43:B:CYS:H	1:42:B:LEU:HB3	4	0.2
(1,856)	1:43:B:CYS:H	1:42:B:LEU:HB3	16	0.2
(1,856)	1:43:B:CYS:H	1:42:B:LEU:HB3	18	0.2
(1,850)	1:27:B:GLU:H	1:26:B:GLY:HA3	4	0.2
(1,842)	1:24:B:ARG:H	1:23:B:LEU:HB3	1	0.2
(1,842)	1:24:B:ARG:H	1:23:B:LEU:HB3	8	0.2
(1,842)	1:24:B:ARG:H	1:23:B:LEU:HB3	12	0.2
(1,842)	1:24:B:ARG:H	1:23:B:LEU:HB3	17	0.2
(1,842)	1:24:B:ARG:H	1:23:B:LEU:HB3	19	0.2
(1,825)	1:21:B:HIS:HD2	1:21:B:HIS:HB2	14	0.2
(1,809)	1:57:B:ARG:HG2	1:57:B:ARG:HA	3	0.2
(1,809)	1:57:B:ARG:HG2	1:57:B:ARG:HA	12	0.2
(1,800)	1:47:B:LEU:H	1:46:B:ARG:HG2	12	0.2
(1,800)	1:47:B:LEU:H	1:46:B:ARG:HG3	12	0.2
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD21	1	0.2
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD22	1	0.2
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD23	1	0.2
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD21	11	0.2
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD22	11	0.2
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD23	11	0.2
(1,730)	1:42:B:LEU:HD11	1:56:B:PHE:HZ	6	0.2
(1,730)	1:42:B:LEU:HD12	1:56:B:PHE:HZ	6	0.2
(1,730)	1:42:B:LEU:HD13	1:56:B:PHE:HZ	6	0.2
(1,730)	1:42:B:LEU:HD11	1:56:B:PHE:HZ	10	0.2
(1,730)	1:42:B:LEU:HD12	1:56:B:PHE:HZ	10	0.2
(1,730)	1:42:B:LEU:HD13	1:56:B:PHE:HZ	10	0.2
(1,722)	1:30:B:PHE:HZ	1:32:B:ALA:HA	8	0.2
(1,722)	1:30:B:PHE:HZ	1:32:B:ALA:HA	11	0.2
(1,721)	1:30:B:PHE:HE1	1:32:B:ALA:HA	8	0.2
(1,721)	1:30:B:PHE:HE2	1:32:B:ALA:HA	8	0.2
(1,721)	1:30:B:PHE:HE1	1:32:B:ALA:HA	11	0.2
(1,721)	1:30:B:PHE:HE2	1:32:B:ALA:HA	11	0.2
(1,678)	1:56:B:PHE:H	1:55:B:HIS:HB2	3	0.2
(1,678)	1:56:B:PHE:H	1:55:B:HIS:HB2	13	0.2
(1,678)	1:56:B:PHE:H	1:55:B:HIS:HB2	16	0.2
(1,678)	1:56:B:PHE:H	1:55:B:HIS:HB2	17	0.2
(1,663)	1:19:B:GLY:H	1:20:B:TYR:H	11	0.2
(1,663)	1:19:B:GLY:H	1:20:B:TYR:H	12	0.2
(1,663)	1:19:B:GLY:H	1:20:B:TYR:H	18	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,659)	1:27:B:GLU:H	1:41:B:LEU:HD21	18	0.2
(1,659)	1:27:B:GLU:H	1:41:B:LEU:HD22	18	0.2
(1,659)	1:27:B:GLU:H	1:41:B:LEU:HD23	18	0.2
(1,645)	1:59:B:LYS:HD2	1:59:B:LYS:HA	17	0.2
(1,645)	1:59:B:LYS:HD3	1:59:B:LYS:HA	17	0.2
(1,643)	1:42:B:LEU:HD21	1:25:B:CYS:HA	8	0.2
(1,643)	1:42:B:LEU:HD22	1:25:B:CYS:HA	8	0.2
(1,643)	1:42:B:LEU:HD23	1:25:B:CYS:HA	8	0.2
(1,643)	1:42:B:LEU:HD21	1:25:B:CYS:HA	20	0.2
(1,643)	1:42:B:LEU:HD22	1:25:B:CYS:HA	20	0.2
(1,643)	1:42:B:LEU:HD23	1:25:B:CYS:HA	20	0.2
(1,614)	1:52:B:TYR:HB2	1:53:B:PRO:HA	1	0.2
(1,614)	1:52:B:TYR:HB3	1:53:B:PRO:HA	1	0.2
(1,614)	1:52:B:TYR:HB2	1:53:B:PRO:HA	6	0.2
(1,614)	1:52:B:TYR:HB3	1:53:B:PRO:HA	6	0.2
(1,614)	1:52:B:TYR:HB2	1:53:B:PRO:HA	7	0.2
(1,614)	1:52:B:TYR:HB3	1:53:B:PRO:HA	7	0.2
(1,614)	1:52:B:TYR:HB2	1:53:B:PRO:HA	8	0.2
(1,614)	1:52:B:TYR:HB3	1:53:B:PRO:HA	8	0.2
(1,614)	1:52:B:TYR:HB2	1:53:B:PRO:HA	9	0.2
(1,614)	1:52:B:TYR:HB3	1:53:B:PRO:HA	9	0.2
(1,614)	1:52:B:TYR:HB2	1:53:B:PRO:HA	10	0.2
(1,614)	1:52:B:TYR:HB3	1:53:B:PRO:HA	10	0.2
(1,614)	1:52:B:TYR:HB2	1:53:B:PRO:HA	12	0.2
(1,614)	1:52:B:TYR:HB3	1:53:B:PRO:HA	12	0.2
(1,614)	1:52:B:TYR:HB2	1:53:B:PRO:HA	14	0.2
(1,614)	1:52:B:TYR:HB3	1:53:B:PRO:HA	14	0.2
(1,614)	1:52:B:TYR:HB2	1:53:B:PRO:HA	17	0.2
(1,614)	1:52:B:TYR:HB3	1:53:B:PRO:HA	17	0.2
(1,614)	1:52:B:TYR:HB2	1:53:B:PRO:HA	19	0.2
(1,614)	1:52:B:TYR:HB3	1:53:B:PRO:HA	19	0.2
(1,608)	1:59:B:LYS:H	1:58:B:LEU:HB3	5	0.2
(1,608)	1:59:B:LYS:H	1:58:B:LEU:HB3	13	0.2
(1,602)	1:61:B:PHE:HB3	1:56:B:PHE:HD1	4	0.2
(1,602)	1:61:B:PHE:HB3	1:56:B:PHE:HD2	4	0.2
(1,602)	1:61:B:PHE:HB3	1:56:B:PHE:HD1	6	0.2
(1,602)	1:61:B:PHE:HB3	1:56:B:PHE:HD2	6	0.2
(1,602)	1:61:B:PHE:HB3	1:56:B:PHE:HD1	12	0.2
(1,602)	1:61:B:PHE:HB3	1:56:B:PHE:HD2	12	0.2
(1,602)	1:61:B:PHE:HB3	1:56:B:PHE:HD1	14	0.2
(1,602)	1:61:B:PHE:HB3	1:56:B:PHE:HD2	14	0.2
(1,602)	1:61:B:PHE:HB3	1:56:B:PHE:HD1	16	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,602)	1:61:B:PHE:HB3	1:56:B:PHE:HD2	16	0.2
(1,575)	1:37:B:GLU:HA	1:48:B:PRO:HA	1	0.2
(1,575)	1:37:B:GLU:HA	1:48:B:PRO:HA	14	0.2
(1,574)	1:49:B:LEU:HA	1:38:B:VAL:HB	6	0.2
(1,559)	1:62:A:THR:H	1:62:A:THR:HG21	17	0.2
(1,559)	1:62:A:THR:H	1:62:A:THR:HG22	17	0.2
(1,559)	1:62:A:THR:H	1:62:A:THR:HG23	17	0.2
(1,518)	1:41:A:LEU:H	1:40:A:CYS:HB2	2	0.2
(1,518)	1:41:A:LEU:H	1:40:A:CYS:HB2	12	0.2
(1,470)	1:60:A:HIS:HB3	1:60:A:HIS:HD2	11	0.2
(1,470)	1:60:A:HIS:HB3	1:60:A:HIS:HD2	12	0.2
(1,451)	1:52:A:TYR:HA	1:55:A:HIS:HB2	6	0.2
(1,451)	1:52:A:TYR:HA	1:55:A:HIS:HB2	13	0.2
(1,451)	1:52:A:TYR:HA	1:55:A:HIS:HB2	15	0.2
(1,451)	1:52:A:TYR:HA	1:55:A:HIS:HB2	16	0.2
(1,375)	1:43:A:CYS:H	1:42:A:LEU:HB3	2	0.2
(1,375)	1:43:A:CYS:H	1:42:A:LEU:HB3	11	0.2
(1,375)	1:43:A:CYS:H	1:42:A:LEU:HB3	12	0.2
(1,375)	1:43:A:CYS:H	1:42:A:LEU:HB3	14	0.2
(1,375)	1:43:A:CYS:H	1:42:A:LEU:HB3	20	0.2
(1,361)	1:24:A:ARG:H	1:23:A:LEU:HB3	8	0.2
(1,339)	1:27:A:GLU:HG2	1:41:A:LEU:HD21	14	0.2
(1,339)	1:27:A:GLU:HG2	1:41:A:LEU:HD22	14	0.2
(1,339)	1:27:A:GLU:HG2	1:41:A:LEU:HD23	14	0.2
(1,339)	1:27:A:GLU:HG3	1:41:A:LEU:HD21	14	0.2
(1,339)	1:27:A:GLU:HG3	1:41:A:LEU:HD22	14	0.2
(1,339)	1:27:A:GLU:HG3	1:41:A:LEU:HD23	14	0.2
(1,328)	1:57:A:ARG:HG2	1:57:A:ARG:HA	1	0.2
(1,328)	1:57:A:ARG:HG2	1:57:A:ARG:HA	10	0.2
(1,319)	1:47:A:LEU:H	1:46:A:ARG:HG2	8	0.2
(1,319)	1:47:A:LEU:H	1:46:A:ARG:HG3	8	0.2
(1,319)	1:47:A:LEU:H	1:46:A:ARG:HG2	15	0.2
(1,319)	1:47:A:LEU:H	1:46:A:ARG:HG3	15	0.2
(1,319)	1:47:A:LEU:H	1:46:A:ARG:HG2	16	0.2
(1,319)	1:47:A:LEU:H	1:46:A:ARG:HG3	16	0.2
(1,294)	1:45:A:GLN:H	1:40:A:CYS:HB2	3	0.2
(1,294)	1:45:A:GLN:H	1:40:A:CYS:HB2	5	0.2
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD11	15	0.2
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD12	15	0.2
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD13	15	0.2
(1,248)	1:56:A:PHE:HE1	1:61:A:PHE:HB3	9	0.2
(1,248)	1:56:A:PHE:HE2	1:61:A:PHE:HB3	9	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,244)	1:60:A:HIS:H	1:57:A:ARG:HA	11	0.2
(1,240)	1:30:A:PHE:HE1	1:32:A:ALA:HA	12	0.2
(1,240)	1:30:A:PHE:HE2	1:32:A:ALA:HA	12	0.2
(1,240)	1:30:A:PHE:HE1	1:32:A:ALA:HA	15	0.2
(1,240)	1:30:A:PHE:HE2	1:32:A:ALA:HA	15	0.2
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD11	5	0.2
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD12	5	0.2
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD13	5	0.2
(1,197)	1:56:A:PHE:H	1:55:A:HIS:HB2	1	0.2
(1,197)	1:56:A:PHE:H	1:55:A:HIS:HB2	2	0.2
(1,197)	1:56:A:PHE:H	1:55:A:HIS:HB2	3	0.2
(1,197)	1:56:A:PHE:H	1:55:A:HIS:HB2	4	0.2
(1,197)	1:56:A:PHE:H	1:55:A:HIS:HB2	5	0.2
(1,197)	1:56:A:PHE:H	1:55:A:HIS:HB2	8	0.2
(1,197)	1:56:A:PHE:H	1:55:A:HIS:HB2	9	0.2
(1,197)	1:56:A:PHE:H	1:55:A:HIS:HB2	13	0.2
(1,197)	1:56:A:PHE:H	1:55:A:HIS:HB2	20	0.2
(1,178)	1:27:A:GLU:H	1:41:A:LEU:HD21	2	0.2
(1,178)	1:27:A:GLU:H	1:41:A:LEU:HD22	2	0.2
(1,178)	1:27:A:GLU:H	1:41:A:LEU:HD23	2	0.2
(1,178)	1:27:A:GLU:H	1:41:A:LEU:HD21	17	0.2
(1,178)	1:27:A:GLU:H	1:41:A:LEU:HD22	17	0.2
(1,178)	1:27:A:GLU:H	1:41:A:LEU:HD23	17	0.2
(1,178)	1:27:A:GLU:H	1:41:A:LEU:HD21	20	0.2
(1,178)	1:27:A:GLU:H	1:41:A:LEU:HD22	20	0.2
(1,178)	1:27:A:GLU:H	1:41:A:LEU:HD23	20	0.2
(1,162)	1:42:A:LEU:HD21	1:25:A:CYS:HA	9	0.2
(1,162)	1:42:A:LEU:HD22	1:25:A:CYS:HA	9	0.2
(1,162)	1:42:A:LEU:HD23	1:25:A:CYS:HA	9	0.2
(1,160)	1:38:A:VAL:HG11	1:37:A:GLU:HA	6	0.2
(1,160)	1:38:A:VAL:HG12	1:37:A:GLU:HA	6	0.2
(1,160)	1:38:A:VAL:HG13	1:37:A:GLU:HA	6	0.2
(1,160)	1:38:A:VAL:HG11	1:37:A:GLU:HA	16	0.2
(1,160)	1:38:A:VAL:HG12	1:37:A:GLU:HA	16	0.2
(1,160)	1:38:A:VAL:HG13	1:37:A:GLU:HA	16	0.2
(1,133)	1:52:A:TYR:HB2	1:53:A:PRO:HA	15	0.2
(1,133)	1:52:A:TYR:HB3	1:53:A:PRO:HA	15	0.2
(1,133)	1:52:A:TYR:HB2	1:53:A:PRO:HA	16	0.2
(1,133)	1:52:A:TYR:HB3	1:53:A:PRO:HA	16	0.2
(1,127)	1:59:A:LYS:H	1:58:A:LEU:HB3	4	0.2
(1,121)	1:61:A:PHE:HB3	1:56:A:PHE:HD1	16	0.2
(1,121)	1:61:A:PHE:HB3	1:56:A:PHE:HD2	16	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,94)	1:37:A:GLU:HA	1:48:A:PRO:HA	6	0.2
(1,90)	1:34:A:ALA:HA	1:36:A:TYR:HD1	13	0.2
(1,90)	1:34:A:ALA:HA	1:36:A:TYR:HD2	13	0.2
(1,85)	1:20:A:TYR:HE1	1:61:A:PHE:HA	5	0.2
(1,85)	1:20:A:TYR:HE2	1:61:A:PHE:HA	5	0.2
(1,85)	1:20:A:TYR:HE1	1:61:A:PHE:HA	12	0.2
(1,85)	1:20:A:TYR:HE2	1:61:A:PHE:HA	12	0.2
(1,78)	1:36:B:TYR:HE1	1:56:A:PHE:H	7	0.2
(1,78)	1:36:B:TYR:HE2	1:56:A:PHE:H	7	0.2
(1,42)	1:22:B:ASN:HB2	1:29:A:LEU:HD21	2	0.2
(1,42)	1:22:B:ASN:HB2	1:29:A:LEU:HD22	2	0.2
(1,42)	1:22:B:ASN:HB2	1:29:A:LEU:HD23	2	0.2
(1,33)	1:36:A:TYR:HE1	1:56:B:PHE:HD1	6	0.2
(1,33)	1:36:A:TYR:HE1	1:56:B:PHE:HD2	6	0.2
(1,33)	1:36:A:TYR:HE2	1:56:B:PHE:HD1	6	0.2
(1,33)	1:36:A:TYR:HE2	1:56:B:PHE:HD2	6	0.2
(1,33)	1:36:A:TYR:HE1	1:56:B:PHE:HD1	9	0.2
(1,33)	1:36:A:TYR:HE1	1:56:B:PHE:HD2	9	0.2
(1,33)	1:36:A:TYR:HE2	1:56:B:PHE:HD1	9	0.2
(1,33)	1:36:A:TYR:HE2	1:56:B:PHE:HD2	9	0.2
(1,33)	1:36:A:TYR:HE1	1:56:B:PHE:HD1	15	0.2
(1,33)	1:36:A:TYR:HE1	1:56:B:PHE:HD2	15	0.2
(1,33)	1:36:A:TYR:HE2	1:56:B:PHE:HD1	15	0.2
(1,33)	1:36:A:TYR:HE2	1:56:B:PHE:HD2	15	0.2
(1,33)	1:36:A:TYR:HE1	1:56:B:PHE:HD1	20	0.2
(1,33)	1:36:A:TYR:HE1	1:56:B:PHE:HD2	20	0.2
(1,33)	1:36:A:TYR:HE2	1:56:B:PHE:HD1	20	0.2
(1,33)	1:36:A:TYR:HE2	1:56:B:PHE:HD2	20	0.2
(1,24)	1:30:B:PHE:HE1	1:61:A:PHE:HZ	3	0.2
(1,24)	1:30:B:PHE:HE2	1:61:A:PHE:HZ	3	0.2
(1,22)	1:30:B:PHE:HD1	1:23:A:LEU:HG	7	0.2
(1,22)	1:30:B:PHE:HD2	1:23:A:LEU:HG	7	0.2
(1,22)	1:30:B:PHE:HD1	1:23:A:LEU:HG	9	0.2
(1,22)	1:30:B:PHE:HD2	1:23:A:LEU:HG	9	0.2
(1,22)	1:30:B:PHE:HD1	1:23:A:LEU:HG	12	0.2
(1,22)	1:30:B:PHE:HD2	1:23:A:LEU:HG	12	0.2
(1,22)	1:30:B:PHE:HD1	1:23:A:LEU:HG	20	0.2
(1,22)	1:30:B:PHE:HD2	1:23:A:LEU:HG	20	0.2
(1,21)	1:30:A:PHE:HD1	1:23:B:LEU:HG	10	0.2
(1,21)	1:30:A:PHE:HD2	1:23:B:LEU:HG	10	0.2
(1,21)	1:30:A:PHE:HD1	1:23:B:LEU:HG	11	0.2
(1,21)	1:30:A:PHE:HD2	1:23:B:LEU:HG	11	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1040)	1:62:B:THR:H	1:62:B:THR:HG21	6	0.19
(1,1040)	1:62:B:THR:H	1:62:B:THR:HG22	6	0.19
(1,1040)	1:62:B:THR:H	1:62:B:THR:HG23	6	0.19
(1,1011)	1:47:B:LEU:H	1:39:B:SER:HA	13	0.19
(1,1011)	1:47:B:LEU:H	1:39:B:SER:HA	15	0.19
(1,999)	1:41:B:LEU:H	1:40:B:CYS:HB2	4	0.19
(1,999)	1:41:B:LEU:H	1:40:B:CYS:HB2	13	0.19
(1,999)	1:41:B:LEU:H	1:40:B:CYS:HB2	15	0.19
(1,999)	1:41:B:LEU:H	1:40:B:CYS:HB2	18	0.19
(1,927)	1:49:B:LEU:HD21	1:36:B:TYR:HD1	7	0.19
(1,927)	1:49:B:LEU:HD21	1:36:B:TYR:HD2	7	0.19
(1,927)	1:49:B:LEU:HD22	1:36:B:TYR:HD1	7	0.19
(1,927)	1:49:B:LEU:HD22	1:36:B:TYR:HD2	7	0.19
(1,927)	1:49:B:LEU:HD23	1:36:B:TYR:HD1	7	0.19
(1,927)	1:49:B:LEU:HD23	1:36:B:TYR:HD2	7	0.19
(1,927)	1:49:B:LEU:HD21	1:36:B:TYR:HD1	9	0.19
(1,927)	1:49:B:LEU:HD21	1:36:B:TYR:HD2	9	0.19
(1,927)	1:49:B:LEU:HD22	1:36:B:TYR:HD1	9	0.19
(1,927)	1:49:B:LEU:HD22	1:36:B:TYR:HD2	9	0.19
(1,927)	1:49:B:LEU:HD23	1:36:B:TYR:HD1	9	0.19
(1,927)	1:49:B:LEU:HD23	1:36:B:TYR:HD2	9	0.19
(1,927)	1:49:B:LEU:HD21	1:36:B:TYR:HD1	10	0.19
(1,927)	1:49:B:LEU:HD21	1:36:B:TYR:HD2	10	0.19
(1,927)	1:49:B:LEU:HD22	1:36:B:TYR:HD1	10	0.19
(1,927)	1:49:B:LEU:HD22	1:36:B:TYR:HD2	10	0.19
(1,927)	1:49:B:LEU:HD23	1:36:B:TYR:HD1	10	0.19
(1,927)	1:49:B:LEU:HD23	1:36:B:TYR:HD2	10	0.19
(1,926)	1:49:B:LEU:HD11	1:49:B:LEU:HB3	1	0.19
(1,926)	1:49:B:LEU:HD12	1:49:B:LEU:HB3	1	0.19
(1,926)	1:49:B:LEU:HD13	1:49:B:LEU:HB3	1	0.19
(1,926)	1:49:B:LEU:HD11	1:49:B:LEU:HB3	10	0.19
(1,926)	1:49:B:LEU:HD12	1:49:B:LEU:HB3	10	0.19
(1,926)	1:49:B:LEU:HD13	1:49:B:LEU:HB3	10	0.19
(1,926)	1:49:B:LEU:HD11	1:49:B:LEU:HB3	12	0.19
(1,926)	1:49:B:LEU:HD12	1:49:B:LEU:HB3	12	0.19
(1,926)	1:49:B:LEU:HD13	1:49:B:LEU:HB3	12	0.19
(1,926)	1:49:B:LEU:HD11	1:49:B:LEU:HB3	16	0.19
(1,926)	1:49:B:LEU:HD12	1:49:B:LEU:HB3	16	0.19
(1,926)	1:49:B:LEU:HD13	1:49:B:LEU:HB3	16	0.19
(1,926)	1:49:B:LEU:HD11	1:49:B:LEU:HB3	17	0.19
(1,926)	1:49:B:LEU:HD12	1:49:B:LEU:HB3	17	0.19
(1,926)	1:49:B:LEU:HD13	1:49:B:LEU:HB3	17	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,856)	1:43:B:CYS:H	1:42:B:LEU:HB3	13	0.19
(1,850)	1:27:B:GLU:H	1:26:B:GLY:HA3	1	0.19
(1,850)	1:27:B:GLU:H	1:26:B:GLY:HA3	2	0.19
(1,850)	1:27:B:GLU:H	1:26:B:GLY:HA3	3	0.19
(1,850)	1:27:B:GLU:H	1:26:B:GLY:HA3	19	0.19
(1,842)	1:24:B:ARG:H	1:23:B:LEU:HB3	3	0.19
(1,842)	1:24:B:ARG:H	1:23:B:LEU:HB3	7	0.19
(1,809)	1:57:B:ARG:HG2	1:57:B:ARG:HA	14	0.19
(1,807)	1:29:B:LEU:HA	1:29:B:LEU:HB3	1	0.19
(1,807)	1:29:B:LEU:HA	1:29:B:LEU:HB3	2	0.19
(1,807)	1:29:B:LEU:HA	1:29:B:LEU:HB3	3	0.19
(1,807)	1:29:B:LEU:HA	1:29:B:LEU:HB3	4	0.19
(1,807)	1:29:B:LEU:HA	1:29:B:LEU:HB3	5	0.19
(1,807)	1:29:B:LEU:HA	1:29:B:LEU:HB3	6	0.19
(1,807)	1:29:B:LEU:HA	1:29:B:LEU:HB3	7	0.19
(1,807)	1:29:B:LEU:HA	1:29:B:LEU:HB3	8	0.19
(1,807)	1:29:B:LEU:HA	1:29:B:LEU:HB3	9	0.19
(1,807)	1:29:B:LEU:HA	1:29:B:LEU:HB3	10	0.19
(1,807)	1:29:B:LEU:HA	1:29:B:LEU:HB3	11	0.19
(1,807)	1:29:B:LEU:HA	1:29:B:LEU:HB3	12	0.19
(1,807)	1:29:B:LEU:HA	1:29:B:LEU:HB3	13	0.19
(1,807)	1:29:B:LEU:HA	1:29:B:LEU:HB3	14	0.19
(1,807)	1:29:B:LEU:HA	1:29:B:LEU:HB3	15	0.19
(1,807)	1:29:B:LEU:HA	1:29:B:LEU:HB3	16	0.19
(1,807)	1:29:B:LEU:HA	1:29:B:LEU:HB3	17	0.19
(1,807)	1:29:B:LEU:HA	1:29:B:LEU:HB3	18	0.19
(1,807)	1:29:B:LEU:HA	1:29:B:LEU:HB3	19	0.19
(1,807)	1:29:B:LEU:HA	1:29:B:LEU:HB3	20	0.19
(1,806)	1:41:B:LEU:HB2	1:25:B:CYS:HA	6	0.19
(1,803)	1:28:B:VAL:H	1:27:B:GLU:HB2	11	0.19
(1,803)	1:28:B:VAL:H	1:27:B:GLU:HB3	11	0.19
(1,803)	1:28:B:VAL:H	1:27:B:GLU:HB2	13	0.19
(1,803)	1:28:B:VAL:H	1:27:B:GLU:HB3	13	0.19
(1,800)	1:47:B:LEU:H	1:46:B:ARG:HG2	14	0.19
(1,800)	1:47:B:LEU:H	1:46:B:ARG:HG3	14	0.19
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD21	9	0.19
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD22	9	0.19
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD23	9	0.19
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD21	19	0.19
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD22	19	0.19
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD23	19	0.19
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD11	3	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD12	3	0.19
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD13	3	0.19
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD11	20	0.19
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD12	20	0.19
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD13	20	0.19
(1,730)	1:42:B:LEU:HD11	1:56:B:PHE:HZ	8	0.19
(1,730)	1:42:B:LEU:HD12	1:56:B:PHE:HZ	8	0.19
(1,730)	1:42:B:LEU:HD13	1:56:B:PHE:HZ	8	0.19
(1,729)	1:56:B:PHE:HE1	1:61:B:PHE:HB3	9	0.19
(1,729)	1:56:B:PHE:HE2	1:61:B:PHE:HB3	9	0.19
(1,724)	1:61:B:PHE:H	1:57:B:ARG:HA	5	0.19
(1,722)	1:30:B:PHE:HZ	1:32:B:ALA:HA	6	0.19
(1,721)	1:30:B:PHE:HE1	1:32:B:ALA:HA	13	0.19
(1,721)	1:30:B:PHE:HE2	1:32:B:ALA:HA	13	0.19
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD11	9	0.19
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD12	9	0.19
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD13	9	0.19
(1,708)	1:62:B:THR:H	1:61:B:PHE:HA	5	0.19
(1,678)	1:56:B:PHE:H	1:55:B:HIS:HB2	1	0.19
(1,678)	1:56:B:PHE:H	1:55:B:HIS:HB2	5	0.19
(1,678)	1:56:B:PHE:H	1:55:B:HIS:HB2	6	0.19
(1,678)	1:56:B:PHE:H	1:55:B:HIS:HB2	7	0.19
(1,678)	1:56:B:PHE:H	1:55:B:HIS:HB2	8	0.19
(1,678)	1:56:B:PHE:H	1:55:B:HIS:HB2	10	0.19
(1,678)	1:56:B:PHE:H	1:55:B:HIS:HB2	12	0.19
(1,678)	1:56:B:PHE:H	1:55:B:HIS:HB2	14	0.19
(1,678)	1:56:B:PHE:H	1:55:B:HIS:HB2	18	0.19
(1,678)	1:56:B:PHE:H	1:55:B:HIS:HB2	19	0.19
(1,678)	1:56:B:PHE:H	1:55:B:HIS:HB2	20	0.19
(1,670)	1:56:B:PHE:H	1:47:B:LEU:HD11	19	0.19
(1,670)	1:56:B:PHE:H	1:47:B:LEU:HD12	19	0.19
(1,670)	1:56:B:PHE:H	1:47:B:LEU:HD13	19	0.19
(1,663)	1:19:B:GLY:H	1:20:B:TYR:H	5	0.19
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD11	6	0.19
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD12	6	0.19
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD13	6	0.19
(1,659)	1:27:B:GLU:H	1:41:B:LEU:HD21	20	0.19
(1,659)	1:27:B:GLU:H	1:41:B:LEU:HD22	20	0.19
(1,659)	1:27:B:GLU:H	1:41:B:LEU:HD23	20	0.19
(1,645)	1:59:B:LYS:HD2	1:59:B:LYS:HA	7	0.19
(1,645)	1:59:B:LYS:HD3	1:59:B:LYS:HA	7	0.19
(1,643)	1:42:B:LEU:HD21	1:25:B:CYS:HA	3	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,643)	1:42:B:LEU:HD22	1:25:B:CYS:HA	3	0.19
(1,643)	1:42:B:LEU:HD23	1:25:B:CYS:HA	3	0.19
(1,643)	1:42:B:LEU:HD21	1:25:B:CYS:HA	12	0.19
(1,643)	1:42:B:LEU:HD22	1:25:B:CYS:HA	12	0.19
(1,643)	1:42:B:LEU:HD23	1:25:B:CYS:HA	12	0.19
(1,641)	1:38:B:VAL:HG11	1:37:B:GLU:HA	2	0.19
(1,641)	1:38:B:VAL:HG12	1:37:B:GLU:HA	2	0.19
(1,641)	1:38:B:VAL:HG13	1:37:B:GLU:HA	2	0.19
(1,641)	1:38:B:VAL:HG11	1:37:B:GLU:HA	4	0.19
(1,641)	1:38:B:VAL:HG12	1:37:B:GLU:HA	4	0.19
(1,641)	1:38:B:VAL:HG13	1:37:B:GLU:HA	4	0.19
(1,641)	1:38:B:VAL:HG11	1:37:B:GLU:HA	6	0.19
(1,641)	1:38:B:VAL:HG12	1:37:B:GLU:HA	6	0.19
(1,641)	1:38:B:VAL:HG13	1:37:B:GLU:HA	6	0.19
(1,641)	1:38:B:VAL:HG11	1:37:B:GLU:HA	9	0.19
(1,641)	1:38:B:VAL:HG12	1:37:B:GLU:HA	9	0.19
(1,641)	1:38:B:VAL:HG13	1:37:B:GLU:HA	9	0.19
(1,641)	1:38:B:VAL:HG11	1:37:B:GLU:HA	16	0.19
(1,641)	1:38:B:VAL:HG12	1:37:B:GLU:HA	16	0.19
(1,641)	1:38:B:VAL:HG13	1:37:B:GLU:HA	16	0.19
(1,608)	1:59:B:LYS:H	1:58:B:LEU:HB3	18	0.19
(1,602)	1:61:B:PHE:HB3	1:56:B:PHE:HD1	5	0.19
(1,602)	1:61:B:PHE:HB3	1:56:B:PHE:HD2	5	0.19
(1,602)	1:61:B:PHE:HB3	1:56:B:PHE:HD1	19	0.19
(1,602)	1:61:B:PHE:HB3	1:56:B:PHE:HD2	19	0.19
(1,599)	1:61:B:PHE:HB3	1:57:B:ARG:HA	11	0.19
(1,599)	1:61:B:PHE:HB3	1:57:B:ARG:HA	17	0.19
(1,575)	1:37:B:GLU:HA	1:48:B:PRO:HA	6	0.19
(1,574)	1:49:B:LEU:HA	1:38:B:VAL:HB	1	0.19
(1,574)	1:49:B:LEU:HA	1:38:B:VAL:HB	4	0.19
(1,574)	1:49:B:LEU:HA	1:38:B:VAL:HB	9	0.19
(1,574)	1:49:B:LEU:HA	1:38:B:VAL:HB	20	0.19
(1,571)	1:34:B:ALA:HA	1:36:B:TYR:HD1	18	0.19
(1,571)	1:34:B:ALA:HA	1:36:B:TYR:HD2	18	0.19
(1,530)	1:47:A:LEU:H	1:39:A:SER:HA	2	0.19
(1,530)	1:47:A:LEU:H	1:39:A:SER:HA	4	0.19
(1,530)	1:47:A:LEU:H	1:39:A:SER:HA	11	0.19
(1,530)	1:47:A:LEU:H	1:39:A:SER:HA	20	0.19
(1,518)	1:41:A:LEU:H	1:40:A:CYS:HB2	17	0.19
(1,518)	1:41:A:LEU:H	1:40:A:CYS:HB2	19	0.19
(1,518)	1:41:A:LEU:H	1:40:A:CYS:HB2	20	0.19
(1,470)	1:60:A:HIS:HB3	1:60:A:HIS:HD2	18	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,446)	1:49:A:LEU:HD21	1:36:A:TYR:HD1	7	0.19
(1,446)	1:49:A:LEU:HD21	1:36:A:TYR:HD2	7	0.19
(1,446)	1:49:A:LEU:HD22	1:36:A:TYR:HD1	7	0.19
(1,446)	1:49:A:LEU:HD22	1:36:A:TYR:HD2	7	0.19
(1,446)	1:49:A:LEU:HD23	1:36:A:TYR:HD1	7	0.19
(1,446)	1:49:A:LEU:HD23	1:36:A:TYR:HD2	7	0.19
(1,445)	1:49:A:LEU:HD11	1:49:A:LEU:HB3	16	0.19
(1,445)	1:49:A:LEU:HD12	1:49:A:LEU:HB3	16	0.19
(1,445)	1:49:A:LEU:HD13	1:49:A:LEU:HB3	16	0.19
(1,375)	1:43:A:CYS:H	1:42:A:LEU:HB3	5	0.19
(1,375)	1:43:A:CYS:H	1:42:A:LEU:HB3	19	0.19
(1,369)	1:27:A:GLU:H	1:26:A:GLY:HA3	4	0.19
(1,369)	1:27:A:GLU:H	1:26:A:GLY:HA3	5	0.19
(1,369)	1:27:A:GLU:H	1:26:A:GLY:HA3	7	0.19
(1,369)	1:27:A:GLU:H	1:26:A:GLY:HA3	10	0.19
(1,361)	1:24:A:ARG:H	1:23:A:LEU:HB3	3	0.19
(1,361)	1:24:A:ARG:H	1:23:A:LEU:HB3	10	0.19
(1,361)	1:24:A:ARG:H	1:23:A:LEU:HB3	17	0.19
(1,361)	1:24:A:ARG:H	1:23:A:LEU:HB3	18	0.19
(1,344)	1:21:A:HIS:HD2	1:21:A:HIS:HB2	12	0.19
(1,343)	1:21:A:HIS:HD2	1:21:A:HIS:HB3	17	0.19
(1,339)	1:27:A:GLU:HG2	1:41:A:LEU:HD21	19	0.19
(1,339)	1:27:A:GLU:HG2	1:41:A:LEU:HD22	19	0.19
(1,339)	1:27:A:GLU:HG2	1:41:A:LEU:HD23	19	0.19
(1,339)	1:27:A:GLU:HG3	1:41:A:LEU:HD21	19	0.19
(1,339)	1:27:A:GLU:HG3	1:41:A:LEU:HD22	19	0.19
(1,339)	1:27:A:GLU:HG3	1:41:A:LEU:HD23	19	0.19
(1,328)	1:57:A:ARG:HG2	1:57:A:ARG:HA	5	0.19
(1,326)	1:29:A:LEU:HA	1:29:A:LEU:HB3	1	0.19
(1,326)	1:29:A:LEU:HA	1:29:A:LEU:HB3	2	0.19
(1,326)	1:29:A:LEU:HA	1:29:A:LEU:HB3	3	0.19
(1,326)	1:29:A:LEU:HA	1:29:A:LEU:HB3	4	0.19
(1,326)	1:29:A:LEU:HA	1:29:A:LEU:HB3	5	0.19
(1,326)	1:29:A:LEU:HA	1:29:A:LEU:HB3	6	0.19
(1,326)	1:29:A:LEU:HA	1:29:A:LEU:HB3	7	0.19
(1,326)	1:29:A:LEU:HA	1:29:A:LEU:HB3	8	0.19
(1,326)	1:29:A:LEU:HA	1:29:A:LEU:HB3	9	0.19
(1,326)	1:29:A:LEU:HA	1:29:A:LEU:HB3	10	0.19
(1,326)	1:29:A:LEU:HA	1:29:A:LEU:HB3	11	0.19
(1,326)	1:29:A:LEU:HA	1:29:A:LEU:HB3	12	0.19
(1,326)	1:29:A:LEU:HA	1:29:A:LEU:HB3	13	0.19
(1,326)	1:29:A:LEU:HA	1:29:A:LEU:HB3	14	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,326)	1:29:A:LEU:HA	1:29:A:LEU:HB3	15	0.19
(1,326)	1:29:A:LEU:HA	1:29:A:LEU:HB3	16	0.19
(1,326)	1:29:A:LEU:HA	1:29:A:LEU:HB3	17	0.19
(1,326)	1:29:A:LEU:HA	1:29:A:LEU:HB3	18	0.19
(1,326)	1:29:A:LEU:HA	1:29:A:LEU:HB3	19	0.19
(1,326)	1:29:A:LEU:HA	1:29:A:LEU:HB3	20	0.19
(1,322)	1:28:A:VAL:H	1:27:A:GLU:HB2	11	0.19
(1,322)	1:28:A:VAL:H	1:27:A:GLU:HB3	11	0.19
(1,319)	1:47:A:LEU:H	1:46:A:ARG:HG2	6	0.19
(1,319)	1:47:A:LEU:H	1:46:A:ARG:HG3	6	0.19
(1,319)	1:47:A:LEU:H	1:46:A:ARG:HG2	10	0.19
(1,319)	1:47:A:LEU:H	1:46:A:ARG:HG3	10	0.19
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD21	18	0.19
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD22	18	0.19
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD23	18	0.19
(1,248)	1:56:A:PHE:HE1	1:61:A:PHE:HB3	1	0.19
(1,248)	1:56:A:PHE:HE2	1:61:A:PHE:HB3	1	0.19
(1,248)	1:56:A:PHE:HE1	1:61:A:PHE:HB3	3	0.19
(1,248)	1:56:A:PHE:HE2	1:61:A:PHE:HB3	3	0.19
(1,248)	1:56:A:PHE:HE1	1:61:A:PHE:HB3	13	0.19
(1,248)	1:56:A:PHE:HE2	1:61:A:PHE:HB3	13	0.19
(1,246)	1:40:A:CYS:HB3	1:52:A:TYR:HE1	12	0.19
(1,246)	1:40:A:CYS:HB3	1:52:A:TYR:HE2	12	0.19
(1,244)	1:60:A:HIS:H	1:57:A:ARG:HA	12	0.19
(1,243)	1:61:A:PHE:H	1:57:A:ARG:HA	9	0.19
(1,240)	1:30:A:PHE:HE1	1:32:A:ALA:HA	1	0.19
(1,240)	1:30:A:PHE:HE2	1:32:A:ALA:HA	1	0.19
(1,240)	1:30:A:PHE:HE1	1:32:A:ALA:HA	6	0.19
(1,240)	1:30:A:PHE:HE2	1:32:A:ALA:HA	6	0.19
(1,240)	1:30:A:PHE:HE1	1:32:A:ALA:HA	11	0.19
(1,240)	1:30:A:PHE:HE2	1:32:A:ALA:HA	11	0.19
(1,240)	1:30:A:PHE:HE1	1:32:A:ALA:HA	20	0.19
(1,240)	1:30:A:PHE:HE2	1:32:A:ALA:HA	20	0.19
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD11	4	0.19
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD12	4	0.19
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD13	4	0.19
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD11	12	0.19
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD12	12	0.19
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD13	12	0.19
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD11	18	0.19
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD12	18	0.19
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD13	18	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,227)	1:62:A:THR:H	1:61:A:PHE:HA	3	0.19
(1,227)	1:62:A:THR:H	1:61:A:PHE:HA	4	0.19
(1,227)	1:62:A:THR:H	1:61:A:PHE:HA	9	0.19
(1,197)	1:56:A:PHE:H	1:55:A:HIS:HB2	7	0.19
(1,197)	1:56:A:PHE:H	1:55:A:HIS:HB2	10	0.19
(1,197)	1:56:A:PHE:H	1:55:A:HIS:HB2	14	0.19
(1,197)	1:56:A:PHE:H	1:55:A:HIS:HB2	15	0.19
(1,197)	1:56:A:PHE:H	1:55:A:HIS:HB2	16	0.19
(1,197)	1:56:A:PHE:H	1:55:A:HIS:HB2	17	0.19
(1,197)	1:56:A:PHE:H	1:55:A:HIS:HB2	19	0.19
(1,193)	1:55:A:HIS:HD2	1:55:A:HIS:HB2	11	0.19
(1,189)	1:56:A:PHE:H	1:47:A:LEU:HD11	13	0.19
(1,189)	1:56:A:PHE:H	1:47:A:LEU:HD12	13	0.19
(1,189)	1:56:A:PHE:H	1:47:A:LEU:HD13	13	0.19
(1,189)	1:56:A:PHE:H	1:47:A:LEU:HD11	15	0.19
(1,189)	1:56:A:PHE:H	1:47:A:LEU:HD12	15	0.19
(1,189)	1:56:A:PHE:H	1:47:A:LEU:HD13	15	0.19
(1,182)	1:19:A:GLY:H	1:20:A:TYR:H	2	0.19
(1,182)	1:19:A:GLY:H	1:20:A:TYR:H	6	0.19
(1,182)	1:19:A:GLY:H	1:20:A:TYR:H	17	0.19
(1,160)	1:38:A:VAL:HG11	1:37:A:GLU:HA	12	0.19
(1,160)	1:38:A:VAL:HG12	1:37:A:GLU:HA	12	0.19
(1,160)	1:38:A:VAL:HG13	1:37:A:GLU:HA	12	0.19
(1,144)	1:42:A:LEU:HD11	1:25:A:CYS:HA	17	0.19
(1,144)	1:42:A:LEU:HD12	1:25:A:CYS:HA	17	0.19
(1,144)	1:42:A:LEU:HD13	1:25:A:CYS:HA	17	0.19
(1,133)	1:52:A:TYR:HB2	1:53:A:PRO:HA	10	0.19
(1,133)	1:52:A:TYR:HB3	1:53:A:PRO:HA	10	0.19
(1,133)	1:52:A:TYR:HB2	1:53:A:PRO:HA	18	0.19
(1,133)	1:52:A:TYR:HB3	1:53:A:PRO:HA	18	0.19
(1,127)	1:59:A:LYS:H	1:58:A:LEU:HB3	19	0.19
(1,121)	1:61:A:PHE:HB3	1:56:A:PHE:HD1	3	0.19
(1,121)	1:61:A:PHE:HB3	1:56:A:PHE:HD2	3	0.19
(1,121)	1:61:A:PHE:HB3	1:56:A:PHE:HD1	8	0.19
(1,121)	1:61:A:PHE:HB3	1:56:A:PHE:HD2	8	0.19
(1,118)	1:61:A:PHE:HB3	1:57:A:ARG:HA	18	0.19
(1,94)	1:37:A:GLU:HA	1:48:A:PRO:HA	4	0.19
(1,94)	1:37:A:GLU:HA	1:48:A:PRO:HA	15	0.19
(1,94)	1:37:A:GLU:HA	1:48:A:PRO:HA	16	0.19
(1,93)	1:49:A:LEU:HA	1:38:A:VAL:HB	6	0.19
(1,90)	1:34:A:ALA:HA	1:36:A:TYR:HD1	9	0.19
(1,90)	1:34:A:ALA:HA	1:36:A:TYR:HD2	9	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,90)	1:34:A:ALA:HA	1:36:A:TYR:HD1	18	0.19
(1,90)	1:34:A:ALA:HA	1:36:A:TYR:HD2	18	0.19
(1,78)	1:36:B:TYR:HE1	1:56:A:PHE:H	4	0.19
(1,78)	1:36:B:TYR:HE2	1:56:A:PHE:H	4	0.19
(1,78)	1:36:B:TYR:HE1	1:56:A:PHE:H	12	0.19
(1,78)	1:36:B:TYR:HE2	1:56:A:PHE:H	12	0.19
(1,77)	1:36:A:TYR:HE1	1:56:B:PHE:H	7	0.19
(1,77)	1:36:A:TYR:HE2	1:56:B:PHE:H	7	0.19
(1,77)	1:36:A:TYR:HE1	1:56:B:PHE:H	9	0.19
(1,77)	1:36:A:TYR:HE2	1:56:B:PHE:H	9	0.19
(1,77)	1:36:A:TYR:HE1	1:56:B:PHE:H	17	0.19
(1,77)	1:36:A:TYR:HE2	1:56:B:PHE:H	17	0.19
(1,75)	1:22:A:ASN:H	1:32:B:ALA:H	6	0.19
(1,42)	1:22:B:ASN:HB2	1:29:A:LEU:HD21	12	0.19
(1,42)	1:22:B:ASN:HB2	1:29:A:LEU:HD22	12	0.19
(1,42)	1:22:B:ASN:HB2	1:29:A:LEU:HD23	12	0.19
(1,34)	1:36:B:TYR:HE1	1:56:A:PHE:HD1	17	0.19
(1,34)	1:36:B:TYR:HE1	1:56:A:PHE:HD2	17	0.19
(1,34)	1:36:B:TYR:HE2	1:56:A:PHE:HD1	17	0.19
(1,34)	1:36:B:TYR:HE2	1:56:A:PHE:HD2	17	0.19
(1,33)	1:36:A:TYR:HE1	1:56:B:PHE:HD1	5	0.19
(1,33)	1:36:A:TYR:HE1	1:56:B:PHE:HD2	5	0.19
(1,33)	1:36:A:TYR:HE2	1:56:B:PHE:HD1	5	0.19
(1,33)	1:36:A:TYR:HE2	1:56:B:PHE:HD2	5	0.19
(1,23)	1:30:A:PHE:HE1	1:61:B:PHE:HZ	18	0.19
(1,23)	1:30:A:PHE:HE2	1:61:B:PHE:HZ	18	0.19
(1,22)	1:30:B:PHE:HD1	1:23:A:LEU:HG	6	0.19
(1,22)	1:30:B:PHE:HD2	1:23:A:LEU:HG	6	0.19
(1,22)	1:30:B:PHE:HD1	1:23:A:LEU:HG	13	0.19
(1,22)	1:30:B:PHE:HD2	1:23:A:LEU:HG	13	0.19
(1,21)	1:30:A:PHE:HD1	1:23:B:LEU:HG	8	0.19
(1,21)	1:30:A:PHE:HD2	1:23:B:LEU:HG	8	0.19
(1,21)	1:30:A:PHE:HD1	1:23:B:LEU:HG	12	0.19
(1,21)	1:30:A:PHE:HD2	1:23:B:LEU:HG	12	0.19
(1,21)	1:30:A:PHE:HD1	1:23:B:LEU:HG	13	0.19
(1,21)	1:30:A:PHE:HD2	1:23:B:LEU:HG	13	0.19
(1,21)	1:30:A:PHE:HD1	1:23:B:LEU:HG	19	0.19
(1,21)	1:30:A:PHE:HD2	1:23:B:LEU:HG	19	0.19
(1,20)	1:21:B:HIS:HA	1:31:A:SER:HA	10	0.19
(1,19)	1:21:A:HIS:HA	1:31:B:SER:HA	17	0.19
(2,6)	1:40:B:CYS:SG	2:101:B:ZN:ZN	11	0.18
(1,1011)	1:47:B:LEU:H	1:39:B:SER:HA	2	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1011)	1:47:B:LEU:H	1:39:B:SER:HA	5	0.18
(1,984)	1:35:B:SER:H	1:36:B:TYR:H	16	0.18
(1,978)	1:32:B:ALA:H	1:31:B:SER:HB3	19	0.18
(1,951)	1:60:B:HIS:HB3	1:60:B:HIS:HD2	11	0.18
(1,938)	1:57:B:ARG:HD2	1:57:B:ARG:HG3	1	0.18
(1,938)	1:57:B:ARG:HD2	1:57:B:ARG:HG3	10	0.18
(1,938)	1:57:B:ARG:HD2	1:57:B:ARG:HG3	15	0.18
(1,938)	1:57:B:ARG:HD2	1:57:B:ARG:HG3	19	0.18
(1,927)	1:49:B:LEU:HD21	1:36:B:TYR:HD1	13	0.18
(1,927)	1:49:B:LEU:HD21	1:36:B:TYR:HD2	13	0.18
(1,927)	1:49:B:LEU:HD22	1:36:B:TYR:HD1	13	0.18
(1,927)	1:49:B:LEU:HD22	1:36:B:TYR:HD2	13	0.18
(1,927)	1:49:B:LEU:HD23	1:36:B:TYR:HD1	13	0.18
(1,927)	1:49:B:LEU:HD23	1:36:B:TYR:HD2	13	0.18
(1,926)	1:49:B:LEU:HD11	1:49:B:LEU:HB3	6	0.18
(1,926)	1:49:B:LEU:HD12	1:49:B:LEU:HB3	6	0.18
(1,926)	1:49:B:LEU:HD13	1:49:B:LEU:HB3	6	0.18
(1,926)	1:49:B:LEU:HD11	1:49:B:LEU:HB3	7	0.18
(1,926)	1:49:B:LEU:HD12	1:49:B:LEU:HB3	7	0.18
(1,926)	1:49:B:LEU:HD13	1:49:B:LEU:HB3	7	0.18
(1,926)	1:49:B:LEU:HD11	1:49:B:LEU:HB3	8	0.18
(1,926)	1:49:B:LEU:HD12	1:49:B:LEU:HB3	8	0.18
(1,926)	1:49:B:LEU:HD13	1:49:B:LEU:HB3	8	0.18
(1,926)	1:49:B:LEU:HD11	1:49:B:LEU:HB3	9	0.18
(1,926)	1:49:B:LEU:HD12	1:49:B:LEU:HB3	9	0.18
(1,926)	1:49:B:LEU:HD13	1:49:B:LEU:HB3	9	0.18
(1,926)	1:49:B:LEU:HD11	1:49:B:LEU:HB3	11	0.18
(1,926)	1:49:B:LEU:HD12	1:49:B:LEU:HB3	11	0.18
(1,926)	1:49:B:LEU:HD13	1:49:B:LEU:HB3	11	0.18
(1,926)	1:49:B:LEU:HD11	1:49:B:LEU:HB3	13	0.18
(1,926)	1:49:B:LEU:HD12	1:49:B:LEU:HB3	13	0.18
(1,926)	1:49:B:LEU:HD13	1:49:B:LEU:HB3	13	0.18
(1,926)	1:49:B:LEU:HD11	1:49:B:LEU:HB3	14	0.18
(1,926)	1:49:B:LEU:HD12	1:49:B:LEU:HB3	14	0.18
(1,926)	1:49:B:LEU:HD13	1:49:B:LEU:HB3	14	0.18
(1,926)	1:49:B:LEU:HD11	1:49:B:LEU:HB3	18	0.18
(1,926)	1:49:B:LEU:HD12	1:49:B:LEU:HB3	18	0.18
(1,926)	1:49:B:LEU:HD13	1:49:B:LEU:HB3	18	0.18
(1,926)	1:49:B:LEU:HD11	1:49:B:LEU:HB3	19	0.18
(1,926)	1:49:B:LEU:HD12	1:49:B:LEU:HB3	19	0.18
(1,926)	1:49:B:LEU:HD13	1:49:B:LEU:HB3	19	0.18
(1,858)	1:42:B:LEU:HA	1:42:B:LEU:HB2	2	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,858)	1:42:B:LEU:HA	1:42:B:LEU:HB2	3	0.18
(1,858)	1:42:B:LEU:HA	1:42:B:LEU:HB2	4	0.18
(1,858)	1:42:B:LEU:HA	1:42:B:LEU:HB2	5	0.18
(1,858)	1:42:B:LEU:HA	1:42:B:LEU:HB2	13	0.18
(1,858)	1:42:B:LEU:HA	1:42:B:LEU:HB2	15	0.18
(1,858)	1:42:B:LEU:HA	1:42:B:LEU:HB2	16	0.18
(1,858)	1:42:B:LEU:HA	1:42:B:LEU:HB2	18	0.18
(1,858)	1:42:B:LEU:HA	1:42:B:LEU:HB2	20	0.18
(1,850)	1:27:B:GLU:H	1:26:B:GLY:HA3	9	0.18
(1,850)	1:27:B:GLU:H	1:26:B:GLY:HA3	12	0.18
(1,850)	1:27:B:GLU:H	1:26:B:GLY:HA3	16	0.18
(1,842)	1:24:B:ARG:H	1:23:B:LEU:HB3	9	0.18
(1,825)	1:21:B:HIS:HD2	1:21:B:HIS:HB2	6	0.18
(1,815)	1:48:B:PRO:HD2	1:47:B:LEU:HA	6	0.18
(1,815)	1:48:B:PRO:HD2	1:47:B:LEU:HA	9	0.18
(1,815)	1:48:B:PRO:HD2	1:47:B:LEU:HA	14	0.18
(1,815)	1:48:B:PRO:HD2	1:47:B:LEU:HA	19	0.18
(1,806)	1:41:B:LEU:HB2	1:25:B:CYS:HA	9	0.18
(1,803)	1:28:B:VAL:H	1:27:B:GLU:HB2	5	0.18
(1,803)	1:28:B:VAL:H	1:27:B:GLU:HB3	5	0.18
(1,803)	1:28:B:VAL:H	1:27:B:GLU:HB2	6	0.18
(1,803)	1:28:B:VAL:H	1:27:B:GLU:HB3	6	0.18
(1,803)	1:28:B:VAL:H	1:27:B:GLU:HB2	7	0.18
(1,803)	1:28:B:VAL:H	1:27:B:GLU:HB3	7	0.18
(1,803)	1:28:B:VAL:H	1:27:B:GLU:HB2	15	0.18
(1,803)	1:28:B:VAL:H	1:27:B:GLU:HB3	15	0.18
(1,803)	1:28:B:VAL:H	1:27:B:GLU:HB2	18	0.18
(1,803)	1:28:B:VAL:H	1:27:B:GLU:HB3	18	0.18
(1,803)	1:28:B:VAL:H	1:27:B:GLU:HB2	20	0.18
(1,803)	1:28:B:VAL:H	1:27:B:GLU:HB3	20	0.18
(1,800)	1:47:B:LEU:H	1:46:B:ARG:HG2	1	0.18
(1,800)	1:47:B:LEU:H	1:46:B:ARG:HG3	1	0.18
(1,800)	1:47:B:LEU:H	1:46:B:ARG:HG2	9	0.18
(1,800)	1:47:B:LEU:H	1:46:B:ARG:HG3	9	0.18
(1,800)	1:47:B:LEU:H	1:46:B:ARG:HG2	11	0.18
(1,800)	1:47:B:LEU:H	1:46:B:ARG:HG3	11	0.18
(1,800)	1:47:B:LEU:H	1:46:B:ARG:HG2	19	0.18
(1,800)	1:47:B:LEU:H	1:46:B:ARG:HG3	19	0.18
(1,775)	1:45:B:GLN:H	1:40:B:CYS:HB2	2	0.18
(1,760)	1:37:B:GLU:H	1:37:B:GLU:HG2	2	0.18
(1,760)	1:37:B:GLU:H	1:37:B:GLU:HG3	2	0.18
(1,760)	1:37:B:GLU:H	1:37:B:GLU:HG2	3	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,760)	1:37:B:GLU:H	1:37:B:GLU:HG3	3	0.18
(1,760)	1:37:B:GLU:H	1:37:B:GLU:HG2	4	0.18
(1,760)	1:37:B:GLU:H	1:37:B:GLU:HG3	4	0.18
(1,760)	1:37:B:GLU:H	1:37:B:GLU:HG2	5	0.18
(1,760)	1:37:B:GLU:H	1:37:B:GLU:HG3	5	0.18
(1,760)	1:37:B:GLU:H	1:37:B:GLU:HG2	8	0.18
(1,760)	1:37:B:GLU:H	1:37:B:GLU:HG3	8	0.18
(1,760)	1:37:B:GLU:H	1:37:B:GLU:HG2	18	0.18
(1,760)	1:37:B:GLU:H	1:37:B:GLU:HG3	18	0.18
(1,760)	1:37:B:GLU:H	1:37:B:GLU:HG2	20	0.18
(1,760)	1:37:B:GLU:H	1:37:B:GLU:HG3	20	0.18
(1,730)	1:42:B:LEU:HD11	1:56:B:PHE:HZ	11	0.18
(1,730)	1:42:B:LEU:HD12	1:56:B:PHE:HZ	11	0.18
(1,730)	1:42:B:LEU:HD13	1:56:B:PHE:HZ	11	0.18
(1,730)	1:42:B:LEU:HD11	1:56:B:PHE:HZ	19	0.18
(1,730)	1:42:B:LEU:HD12	1:56:B:PHE:HZ	19	0.18
(1,730)	1:42:B:LEU:HD13	1:56:B:PHE:HZ	19	0.18
(1,729)	1:56:B:PHE:HE1	1:61:B:PHE:HB3	4	0.18
(1,729)	1:56:B:PHE:HE2	1:61:B:PHE:HB3	4	0.18
(1,729)	1:56:B:PHE:HE1	1:61:B:PHE:HB3	16	0.18
(1,729)	1:56:B:PHE:HE2	1:61:B:PHE:HB3	16	0.18
(1,727)	1:40:B:CYS:HB3	1:52:B:TYR:HE1	15	0.18
(1,727)	1:40:B:CYS:HB3	1:52:B:TYR:HE2	15	0.18
(1,722)	1:30:B:PHE:HZ	1:32:B:ALA:HA	7	0.18
(1,722)	1:30:B:PHE:HZ	1:32:B:ALA:HA	10	0.18
(1,721)	1:30:B:PHE:HE1	1:32:B:ALA:HA	5	0.18
(1,721)	1:30:B:PHE:HE2	1:32:B:ALA:HA	5	0.18
(1,721)	1:30:B:PHE:HE1	1:32:B:ALA:HA	7	0.18
(1,721)	1:30:B:PHE:HE2	1:32:B:ALA:HA	7	0.18
(1,721)	1:30:B:PHE:HE1	1:32:B:ALA:HA	9	0.18
(1,721)	1:30:B:PHE:HE2	1:32:B:ALA:HA	9	0.18
(1,721)	1:30:B:PHE:HE1	1:32:B:ALA:HA	14	0.18
(1,721)	1:30:B:PHE:HE2	1:32:B:ALA:HA	14	0.18
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD11	15	0.18
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD12	15	0.18
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD13	15	0.18
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD11	20	0.18
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD12	20	0.18
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD13	20	0.18
(1,678)	1:56:B:PHE:H	1:55:B:HIS:HB2	9	0.18
(1,670)	1:56:B:PHE:H	1:47:B:LEU:HD11	1	0.18
(1,670)	1:56:B:PHE:H	1:47:B:LEU:HD12	1	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,670)	1:56:B:PHE:H	1:47:B:LEU:HD13	1	0.18
(1,670)	1:56:B:PHE:H	1:47:B:LEU:HD11	7	0.18
(1,670)	1:56:B:PHE:H	1:47:B:LEU:HD12	7	0.18
(1,670)	1:56:B:PHE:H	1:47:B:LEU:HD13	7	0.18
(1,670)	1:56:B:PHE:H	1:47:B:LEU:HD11	9	0.18
(1,670)	1:56:B:PHE:H	1:47:B:LEU:HD12	9	0.18
(1,670)	1:56:B:PHE:H	1:47:B:LEU:HD13	9	0.18
(1,670)	1:56:B:PHE:H	1:47:B:LEU:HD11	17	0.18
(1,670)	1:56:B:PHE:H	1:47:B:LEU:HD12	17	0.18
(1,670)	1:56:B:PHE:H	1:47:B:LEU:HD13	17	0.18
(1,659)	1:27:B:GLU:H	1:41:B:LEU:HD21	15	0.18
(1,659)	1:27:B:GLU:H	1:41:B:LEU:HD22	15	0.18
(1,659)	1:27:B:GLU:H	1:41:B:LEU:HD23	15	0.18
(1,658)	1:30:B:PHE:H	1:29:B:LEU:HB3	3	0.18
(1,658)	1:30:B:PHE:H	1:29:B:LEU:HB3	5	0.18
(1,658)	1:30:B:PHE:H	1:29:B:LEU:HB3	6	0.18
(1,658)	1:30:B:PHE:H	1:29:B:LEU:HB3	7	0.18
(1,658)	1:30:B:PHE:H	1:29:B:LEU:HB3	9	0.18
(1,658)	1:30:B:PHE:H	1:29:B:LEU:HB3	18	0.18
(1,658)	1:30:B:PHE:H	1:29:B:LEU:HB3	19	0.18
(1,658)	1:30:B:PHE:H	1:29:B:LEU:HB3	20	0.18
(1,643)	1:42:B:LEU:HD21	1:25:B:CYS:HA	7	0.18
(1,643)	1:42:B:LEU:HD22	1:25:B:CYS:HA	7	0.18
(1,643)	1:42:B:LEU:HD23	1:25:B:CYS:HA	7	0.18
(1,643)	1:42:B:LEU:HD21	1:25:B:CYS:HA	10	0.18
(1,643)	1:42:B:LEU:HD22	1:25:B:CYS:HA	10	0.18
(1,643)	1:42:B:LEU:HD23	1:25:B:CYS:HA	10	0.18
(1,643)	1:42:B:LEU:HD21	1:25:B:CYS:HA	17	0.18
(1,643)	1:42:B:LEU:HD22	1:25:B:CYS:HA	17	0.18
(1,643)	1:42:B:LEU:HD23	1:25:B:CYS:HA	17	0.18
(1,641)	1:38:B:VAL:HG11	1:37:B:GLU:HA	1	0.18
(1,641)	1:38:B:VAL:HG12	1:37:B:GLU:HA	1	0.18
(1,641)	1:38:B:VAL:HG13	1:37:B:GLU:HA	1	0.18
(1,641)	1:38:B:VAL:HG11	1:37:B:GLU:HA	12	0.18
(1,641)	1:38:B:VAL:HG12	1:37:B:GLU:HA	12	0.18
(1,641)	1:38:B:VAL:HG13	1:37:B:GLU:HA	12	0.18
(1,608)	1:59:B:LYS:H	1:58:B:LEU:HB3	16	0.18
(1,602)	1:61:B:PHE:HB3	1:56:B:PHE:HD1	7	0.18
(1,602)	1:61:B:PHE:HB3	1:56:B:PHE:HD2	7	0.18
(1,602)	1:61:B:PHE:HB3	1:56:B:PHE:HD1	13	0.18
(1,602)	1:61:B:PHE:HB3	1:56:B:PHE:HD2	13	0.18
(1,599)	1:61:B:PHE:HB3	1:57:B:ARG:HA	8	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,599)	1:61:B:PHE:HB3	1:57:B:ARG:HA	14	0.18
(1,575)	1:37:B:GLU:HA	1:48:B:PRO:HA	2	0.18
(1,574)	1:49:B:LEU:HA	1:38:B:VAL:HB	11	0.18
(1,571)	1:34:B:ALA:HA	1:36:B:TYR:HD1	1	0.18
(1,571)	1:34:B:ALA:HA	1:36:B:TYR:HD2	1	0.18
(1,518)	1:41:A:LEU:H	1:40:A:CYS:HB2	7	0.18
(1,518)	1:41:A:LEU:H	1:40:A:CYS:HB2	11	0.18
(1,457)	1:57:A:ARG:HD2	1:57:A:ARG:HG3	2	0.18
(1,457)	1:57:A:ARG:HD2	1:57:A:ARG:HG3	4	0.18
(1,457)	1:57:A:ARG:HD2	1:57:A:ARG:HG3	8	0.18
(1,457)	1:57:A:ARG:HD2	1:57:A:ARG:HG3	13	0.18
(1,446)	1:49:A:LEU:HD21	1:36:A:TYR:HD1	13	0.18
(1,446)	1:49:A:LEU:HD21	1:36:A:TYR:HD2	13	0.18
(1,446)	1:49:A:LEU:HD22	1:36:A:TYR:HD1	13	0.18
(1,446)	1:49:A:LEU:HD22	1:36:A:TYR:HD2	13	0.18
(1,446)	1:49:A:LEU:HD23	1:36:A:TYR:HD1	13	0.18
(1,446)	1:49:A:LEU:HD23	1:36:A:TYR:HD2	13	0.18
(1,446)	1:49:A:LEU:HD21	1:36:A:TYR:HD1	17	0.18
(1,446)	1:49:A:LEU:HD21	1:36:A:TYR:HD2	17	0.18
(1,446)	1:49:A:LEU:HD22	1:36:A:TYR:HD1	17	0.18
(1,446)	1:49:A:LEU:HD22	1:36:A:TYR:HD2	17	0.18
(1,446)	1:49:A:LEU:HD23	1:36:A:TYR:HD1	17	0.18
(1,446)	1:49:A:LEU:HD23	1:36:A:TYR:HD2	17	0.18
(1,445)	1:49:A:LEU:HD11	1:49:A:LEU:HB3	1	0.18
(1,445)	1:49:A:LEU:HD12	1:49:A:LEU:HB3	1	0.18
(1,445)	1:49:A:LEU:HD13	1:49:A:LEU:HB3	1	0.18
(1,445)	1:49:A:LEU:HD11	1:49:A:LEU:HB3	6	0.18
(1,445)	1:49:A:LEU:HD12	1:49:A:LEU:HB3	6	0.18
(1,445)	1:49:A:LEU:HD13	1:49:A:LEU:HB3	6	0.18
(1,445)	1:49:A:LEU:HD11	1:49:A:LEU:HB3	8	0.18
(1,445)	1:49:A:LEU:HD12	1:49:A:LEU:HB3	8	0.18
(1,445)	1:49:A:LEU:HD13	1:49:A:LEU:HB3	8	0.18
(1,445)	1:49:A:LEU:HD11	1:49:A:LEU:HB3	10	0.18
(1,445)	1:49:A:LEU:HD12	1:49:A:LEU:HB3	10	0.18
(1,445)	1:49:A:LEU:HD13	1:49:A:LEU:HB3	10	0.18
(1,445)	1:49:A:LEU:HD11	1:49:A:LEU:HB3	13	0.18
(1,445)	1:49:A:LEU:HD12	1:49:A:LEU:HB3	13	0.18
(1,445)	1:49:A:LEU:HD13	1:49:A:LEU:HB3	13	0.18
(1,445)	1:49:A:LEU:HD11	1:49:A:LEU:HB3	15	0.18
(1,445)	1:49:A:LEU:HD12	1:49:A:LEU:HB3	15	0.18
(1,445)	1:49:A:LEU:HD13	1:49:A:LEU:HB3	15	0.18
(1,445)	1:49:A:LEU:HD11	1:49:A:LEU:HB3	17	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,445)	1:49:A:LEU:HD12	1:49:A:LEU:HB3	17	0.18
(1,445)	1:49:A:LEU:HD13	1:49:A:LEU:HB3	17	0.18
(1,445)	1:49:A:LEU:HD11	1:49:A:LEU:HB3	18	0.18
(1,445)	1:49:A:LEU:HD12	1:49:A:LEU:HB3	18	0.18
(1,445)	1:49:A:LEU:HD13	1:49:A:LEU:HB3	18	0.18
(1,377)	1:42:A:LEU:HA	1:42:A:LEU:HB2	1	0.18
(1,377)	1:42:A:LEU:HA	1:42:A:LEU:HB2	2	0.18
(1,377)	1:42:A:LEU:HA	1:42:A:LEU:HB2	3	0.18
(1,377)	1:42:A:LEU:HA	1:42:A:LEU:HB2	4	0.18
(1,377)	1:42:A:LEU:HA	1:42:A:LEU:HB2	5	0.18
(1,377)	1:42:A:LEU:HA	1:42:A:LEU:HB2	7	0.18
(1,377)	1:42:A:LEU:HA	1:42:A:LEU:HB2	9	0.18
(1,377)	1:42:A:LEU:HA	1:42:A:LEU:HB2	11	0.18
(1,377)	1:42:A:LEU:HA	1:42:A:LEU:HB2	12	0.18
(1,377)	1:42:A:LEU:HA	1:42:A:LEU:HB2	14	0.18
(1,377)	1:42:A:LEU:HA	1:42:A:LEU:HB2	17	0.18
(1,377)	1:42:A:LEU:HA	1:42:A:LEU:HB2	19	0.18
(1,377)	1:42:A:LEU:HA	1:42:A:LEU:HB2	20	0.18
(1,375)	1:43:A:CYS:H	1:42:A:LEU:HB3	4	0.18
(1,369)	1:27:A:GLU:H	1:26:A:GLY:HA3	3	0.18
(1,369)	1:27:A:GLU:H	1:26:A:GLY:HA3	6	0.18
(1,369)	1:27:A:GLU:H	1:26:A:GLY:HA3	8	0.18
(1,369)	1:27:A:GLU:H	1:26:A:GLY:HA3	15	0.18
(1,369)	1:27:A:GLU:H	1:26:A:GLY:HA3	18	0.18
(1,361)	1:24:A:ARG:H	1:23:A:LEU:HB3	6	0.18
(1,344)	1:21:A:HIS:HD2	1:21:A:HIS:HB2	8	0.18
(1,334)	1:48:A:PRO:HD2	1:47:A:LEU:HA	6	0.18
(1,334)	1:48:A:PRO:HD2	1:47:A:LEU:HA	18	0.18
(1,328)	1:57:A:ARG:HG2	1:57:A:ARG:HA	18	0.18
(1,325)	1:41:A:LEU:HB2	1:25:A:CYS:HA	15	0.18
(1,322)	1:28:A:VAL:H	1:27:A:GLU:HB2	1	0.18
(1,322)	1:28:A:VAL:H	1:27:A:GLU:HB3	1	0.18
(1,322)	1:28:A:VAL:H	1:27:A:GLU:HB2	2	0.18
(1,322)	1:28:A:VAL:H	1:27:A:GLU:HB3	2	0.18
(1,322)	1:28:A:VAL:H	1:27:A:GLU:HB2	9	0.18
(1,322)	1:28:A:VAL:H	1:27:A:GLU:HB3	9	0.18
(1,322)	1:28:A:VAL:H	1:27:A:GLU:HB2	13	0.18
(1,322)	1:28:A:VAL:H	1:27:A:GLU:HB3	13	0.18
(1,322)	1:28:A:VAL:H	1:27:A:GLU:HB2	16	0.18
(1,322)	1:28:A:VAL:H	1:27:A:GLU:HB3	16	0.18
(1,322)	1:28:A:VAL:H	1:27:A:GLU:HB2	17	0.18
(1,322)	1:28:A:VAL:H	1:27:A:GLU:HB3	17	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,322)	1:28:A:VAL:H	1:27:A:GLU:HB2	20	0.18
(1,322)	1:28:A:VAL:H	1:27:A:GLU:HB3	20	0.18
(1,294)	1:45:A:GLN:H	1:40:A:CYS:HB2	1	0.18
(1,294)	1:45:A:GLN:H	1:40:A:CYS:HB2	9	0.18
(1,279)	1:37:A:GLU:H	1:37:A:GLU:HG2	2	0.18
(1,279)	1:37:A:GLU:H	1:37:A:GLU:HG3	2	0.18
(1,279)	1:37:A:GLU:H	1:37:A:GLU:HG2	3	0.18
(1,279)	1:37:A:GLU:H	1:37:A:GLU:HG3	3	0.18
(1,279)	1:37:A:GLU:H	1:37:A:GLU:HG2	4	0.18
(1,279)	1:37:A:GLU:H	1:37:A:GLU:HG3	4	0.18
(1,279)	1:37:A:GLU:H	1:37:A:GLU:HG2	5	0.18
(1,279)	1:37:A:GLU:H	1:37:A:GLU:HG3	5	0.18
(1,279)	1:37:A:GLU:H	1:37:A:GLU:HG2	7	0.18
(1,279)	1:37:A:GLU:H	1:37:A:GLU:HG3	7	0.18
(1,279)	1:37:A:GLU:H	1:37:A:GLU:HG2	9	0.18
(1,279)	1:37:A:GLU:H	1:37:A:GLU:HG3	9	0.18
(1,279)	1:37:A:GLU:H	1:37:A:GLU:HG2	11	0.18
(1,279)	1:37:A:GLU:H	1:37:A:GLU:HG3	11	0.18
(1,279)	1:37:A:GLU:H	1:37:A:GLU:HG2	12	0.18
(1,279)	1:37:A:GLU:H	1:37:A:GLU:HG3	12	0.18
(1,279)	1:37:A:GLU:H	1:37:A:GLU:HG2	14	0.18
(1,279)	1:37:A:GLU:H	1:37:A:GLU:HG3	14	0.18
(1,279)	1:37:A:GLU:H	1:37:A:GLU:HG2	17	0.18
(1,279)	1:37:A:GLU:H	1:37:A:GLU:HG3	17	0.18
(1,279)	1:37:A:GLU:H	1:37:A:GLU:HG2	19	0.18
(1,279)	1:37:A:GLU:H	1:37:A:GLU:HG3	19	0.18
(1,279)	1:37:A:GLU:H	1:37:A:GLU:HG2	20	0.18
(1,279)	1:37:A:GLU:H	1:37:A:GLU:HG3	20	0.18
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD11	3	0.18
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD12	3	0.18
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD13	3	0.18
(1,248)	1:56:A:PHE:HE1	1:61:A:PHE:HB3	4	0.18
(1,248)	1:56:A:PHE:HE2	1:61:A:PHE:HB3	4	0.18
(1,248)	1:56:A:PHE:HE1	1:61:A:PHE:HB3	8	0.18
(1,248)	1:56:A:PHE:HE2	1:61:A:PHE:HB3	8	0.18
(1,246)	1:40:A:CYS:HB3	1:52:A:TYR:HE1	3	0.18
(1,246)	1:40:A:CYS:HB3	1:52:A:TYR:HE2	3	0.18
(1,246)	1:40:A:CYS:HB3	1:52:A:TYR:HE1	4	0.18
(1,246)	1:40:A:CYS:HB3	1:52:A:TYR:HE2	4	0.18
(1,246)	1:40:A:CYS:HB3	1:52:A:TYR:HE1	5	0.18
(1,246)	1:40:A:CYS:HB3	1:52:A:TYR:HE2	5	0.18
(1,246)	1:40:A:CYS:HB3	1:52:A:TYR:HE1	11	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,246)	1:40:A:CYS:HB3	1:52:A:TYR:HE2	11	0.18
(1,246)	1:40:A:CYS:HB3	1:52:A:TYR:HE1	14	0.18
(1,246)	1:40:A:CYS:HB3	1:52:A:TYR:HE2	14	0.18
(1,246)	1:40:A:CYS:HB3	1:52:A:TYR:HE1	20	0.18
(1,246)	1:40:A:CYS:HB3	1:52:A:TYR:HE2	20	0.18
(1,243)	1:61:A:PHE:H	1:57:A:ARG:HA	1	0.18
(1,243)	1:61:A:PHE:H	1:57:A:ARG:HA	6	0.18
(1,243)	1:61:A:PHE:H	1:57:A:ARG:HA	11	0.18
(1,243)	1:61:A:PHE:H	1:57:A:ARG:HA	12	0.18
(1,241)	1:30:A:PHE:HZ	1:32:A:ALA:HA	12	0.18
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD11	19	0.18
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD12	19	0.18
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD13	19	0.18
(1,197)	1:56:A:PHE:H	1:55:A:HIS:HB2	6	0.18
(1,193)	1:55:A:HIS:HD2	1:55:A:HIS:HB2	12	0.18
(1,189)	1:56:A:PHE:H	1:47:A:LEU:HD11	8	0.18
(1,189)	1:56:A:PHE:H	1:47:A:LEU:HD12	8	0.18
(1,189)	1:56:A:PHE:H	1:47:A:LEU:HD13	8	0.18
(1,189)	1:56:A:PHE:H	1:47:A:LEU:HD11	18	0.18
(1,189)	1:56:A:PHE:H	1:47:A:LEU:HD12	18	0.18
(1,189)	1:56:A:PHE:H	1:47:A:LEU:HD13	18	0.18
(1,182)	1:19:A:GLY:H	1:20:A:TYR:H	5	0.18
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD11	1	0.18
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD12	1	0.18
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD13	1	0.18
(1,177)	1:30:A:PHE:H	1:29:A:LEU:HB3	1	0.18
(1,177)	1:30:A:PHE:H	1:29:A:LEU:HB3	3	0.18
(1,177)	1:30:A:PHE:H	1:29:A:LEU:HB3	5	0.18
(1,177)	1:30:A:PHE:H	1:29:A:LEU:HB3	6	0.18
(1,177)	1:30:A:PHE:H	1:29:A:LEU:HB3	8	0.18
(1,177)	1:30:A:PHE:H	1:29:A:LEU:HB3	9	0.18
(1,177)	1:30:A:PHE:H	1:29:A:LEU:HB3	10	0.18
(1,177)	1:30:A:PHE:H	1:29:A:LEU:HB3	13	0.18
(1,177)	1:30:A:PHE:H	1:29:A:LEU:HB3	14	0.18
(1,177)	1:30:A:PHE:H	1:29:A:LEU:HB3	15	0.18
(1,177)	1:30:A:PHE:H	1:29:A:LEU:HB3	16	0.18
(1,177)	1:30:A:PHE:H	1:29:A:LEU:HB3	17	0.18
(1,177)	1:30:A:PHE:H	1:29:A:LEU:HB3	19	0.18
(1,177)	1:30:A:PHE:H	1:29:A:LEU:HB3	20	0.18
(1,164)	1:59:A:LYS:HD2	1:59:A:LYS:HA	9	0.18
(1,164)	1:59:A:LYS:HD3	1:59:A:LYS:HA	9	0.18
(1,164)	1:59:A:LYS:HD2	1:59:A:LYS:HA	20	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,164)	1:59:A:LYS:HD3	1:59:A:LYS:HA	20	0.18
(1,162)	1:42:A:LEU:HD21	1:25:A:CYS:HA	16	0.18
(1,162)	1:42:A:LEU:HD22	1:25:A:CYS:HA	16	0.18
(1,162)	1:42:A:LEU:HD23	1:25:A:CYS:HA	16	0.18
(1,160)	1:38:A:VAL:HG11	1:37:A:GLU:HA	11	0.18
(1,160)	1:38:A:VAL:HG12	1:37:A:GLU:HA	11	0.18
(1,160)	1:38:A:VAL:HG13	1:37:A:GLU:HA	11	0.18
(1,127)	1:59:A:LYS:H	1:58:A:LEU:HB3	6	0.18
(1,127)	1:59:A:LYS:H	1:58:A:LEU:HB3	9	0.18
(1,127)	1:59:A:LYS:H	1:58:A:LEU:HB3	17	0.18
(1,118)	1:61:A:PHE:HB3	1:57:A:ARG:HA	17	0.18
(1,93)	1:49:A:LEU:HA	1:38:A:VAL:HB	4	0.18
(1,93)	1:49:A:LEU:HA	1:38:A:VAL:HB	8	0.18
(1,85)	1:20:A:TYR:HE1	1:61:A:PHE:HA	4	0.18
(1,85)	1:20:A:TYR:HE2	1:61:A:PHE:HA	4	0.18
(1,77)	1:36:A:TYR:HE1	1:56:B:PHE:H	10	0.18
(1,77)	1:36:A:TYR:HE2	1:56:B:PHE:H	10	0.18
(1,75)	1:22:A:ASN:H	1:32:B:ALA:H	17	0.18
(1,34)	1:36:B:TYR:HE1	1:56:A:PHE:HD1	5	0.18
(1,34)	1:36:B:TYR:HE1	1:56:A:PHE:HD2	5	0.18
(1,34)	1:36:B:TYR:HE2	1:56:A:PHE:HD1	5	0.18
(1,34)	1:36:B:TYR:HE2	1:56:A:PHE:HD2	5	0.18
(1,33)	1:36:A:TYR:HE1	1:56:B:PHE:HD1	18	0.18
(1,33)	1:36:A:TYR:HE1	1:56:B:PHE:HD2	18	0.18
(1,33)	1:36:A:TYR:HE2	1:56:B:PHE:HD1	18	0.18
(1,33)	1:36:A:TYR:HE2	1:56:B:PHE:HD2	18	0.18
(1,22)	1:30:B:PHE:HD1	1:23:A:LEU:HG	14	0.18
(1,22)	1:30:B:PHE:HD2	1:23:A:LEU:HG	14	0.18
(1,21)	1:30:A:PHE:HD1	1:23:B:LEU:HG	7	0.18
(1,21)	1:30:A:PHE:HD2	1:23:B:LEU:HG	7	0.18
(1,21)	1:30:A:PHE:HD1	1:23:B:LEU:HG	16	0.18
(1,21)	1:30:A:PHE:HD2	1:23:B:LEU:HG	16	0.18
(1,21)	1:30:A:PHE:HD1	1:23:B:LEU:HG	17	0.18
(1,21)	1:30:A:PHE:HD2	1:23:B:LEU:HG	17	0.18
(1,20)	1:21:B:HIS:HA	1:31:A:SER:HA	14	0.18
(1,3)	1:49:A:LEU:HD11	1:50:B:ASP:HA	4	0.18
(1,3)	1:49:A:LEU:HD12	1:50:B:ASP:HA	4	0.18
(1,3)	1:49:A:LEU:HD13	1:50:B:ASP:HA	4	0.18
(2,2)	1:40:A:CYS:SG	2:101:A:ZN:ZN	18	0.17
(1,1040)	1:62:B:THR:H	1:62:B:THR:HG21	4	0.17
(1,1040)	1:62:B:THR:H	1:62:B:THR:HG22	4	0.17
(1,1040)	1:62:B:THR:H	1:62:B:THR:HG23	4	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1040)	1:62:B:THR:H	1:62:B:THR:HG21	15	0.17
(1,1040)	1:62:B:THR:H	1:62:B:THR:HG22	15	0.17
(1,1040)	1:62:B:THR:H	1:62:B:THR:HG23	15	0.17
(1,1011)	1:47:B:LEU:H	1:39:B:SER:HA	4	0.17
(1,1011)	1:47:B:LEU:H	1:39:B:SER:HA	16	0.17
(1,1011)	1:47:B:LEU:H	1:39:B:SER:HA	18	0.17
(1,999)	1:41:B:LEU:H	1:40:B:CYS:HB2	20	0.17
(1,984)	1:35:B:SER:H	1:36:B:TYR:H	3	0.17
(1,984)	1:35:B:SER:H	1:36:B:TYR:H	15	0.17
(1,980)	1:34:B:ALA:H	1:34:B:ALA:HA	1	0.17
(1,980)	1:34:B:ALA:H	1:34:B:ALA:HA	2	0.17
(1,980)	1:34:B:ALA:H	1:34:B:ALA:HA	3	0.17
(1,980)	1:34:B:ALA:H	1:34:B:ALA:HA	4	0.17
(1,980)	1:34:B:ALA:H	1:34:B:ALA:HA	5	0.17
(1,980)	1:34:B:ALA:H	1:34:B:ALA:HA	6	0.17
(1,980)	1:34:B:ALA:H	1:34:B:ALA:HA	7	0.17
(1,980)	1:34:B:ALA:H	1:34:B:ALA:HA	8	0.17
(1,980)	1:34:B:ALA:H	1:34:B:ALA:HA	9	0.17
(1,980)	1:34:B:ALA:H	1:34:B:ALA:HA	10	0.17
(1,980)	1:34:B:ALA:H	1:34:B:ALA:HA	11	0.17
(1,980)	1:34:B:ALA:H	1:34:B:ALA:HA	12	0.17
(1,980)	1:34:B:ALA:H	1:34:B:ALA:HA	13	0.17
(1,980)	1:34:B:ALA:H	1:34:B:ALA:HA	14	0.17
(1,980)	1:34:B:ALA:H	1:34:B:ALA:HA	15	0.17
(1,980)	1:34:B:ALA:H	1:34:B:ALA:HA	16	0.17
(1,980)	1:34:B:ALA:H	1:34:B:ALA:HA	17	0.17
(1,980)	1:34:B:ALA:H	1:34:B:ALA:HA	18	0.17
(1,980)	1:34:B:ALA:H	1:34:B:ALA:HA	19	0.17
(1,980)	1:34:B:ALA:H	1:34:B:ALA:HA	20	0.17
(1,978)	1:32:B:ALA:H	1:31:B:SER:HB3	1	0.17
(1,978)	1:32:B:ALA:H	1:31:B:SER:HB3	7	0.17
(1,978)	1:32:B:ALA:H	1:31:B:SER:HB3	11	0.17
(1,978)	1:32:B:ALA:H	1:31:B:SER:HB3	12	0.17
(1,978)	1:32:B:ALA:H	1:31:B:SER:HB3	18	0.17
(1,978)	1:32:B:ALA:H	1:31:B:SER:HB3	20	0.17
(1,938)	1:57:B:ARG:HD2	1:57:B:ARG:HG3	6	0.17
(1,938)	1:57:B:ARG:HD2	1:57:B:ARG:HG3	8	0.17
(1,938)	1:57:B:ARG:HD2	1:57:B:ARG:HG3	11	0.17
(1,938)	1:57:B:ARG:HD2	1:57:B:ARG:HG3	16	0.17
(1,938)	1:57:B:ARG:HD2	1:57:B:ARG:HG3	20	0.17
(1,933)	1:54:B:GLU:HB3	1:54:B:GLU:HG2	8	0.17
(1,933)	1:54:B:GLU:HB3	1:54:B:GLU:HG3	8	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,927)	1:49:B:LEU:HD21	1:36:B:TYR:HD1	1	0.17
(1,927)	1:49:B:LEU:HD21	1:36:B:TYR:HD2	1	0.17
(1,927)	1:49:B:LEU:HD22	1:36:B:TYR:HD1	1	0.17
(1,927)	1:49:B:LEU:HD22	1:36:B:TYR:HD2	1	0.17
(1,927)	1:49:B:LEU:HD23	1:36:B:TYR:HD1	1	0.17
(1,927)	1:49:B:LEU:HD23	1:36:B:TYR:HD2	1	0.17
(1,927)	1:49:B:LEU:HD21	1:36:B:TYR:HD1	6	0.17
(1,927)	1:49:B:LEU:HD21	1:36:B:TYR:HD2	6	0.17
(1,927)	1:49:B:LEU:HD22	1:36:B:TYR:HD1	6	0.17
(1,927)	1:49:B:LEU:HD22	1:36:B:TYR:HD2	6	0.17
(1,927)	1:49:B:LEU:HD23	1:36:B:TYR:HD1	6	0.17
(1,927)	1:49:B:LEU:HD23	1:36:B:TYR:HD2	6	0.17
(1,927)	1:49:B:LEU:HD21	1:36:B:TYR:HD1	19	0.17
(1,927)	1:49:B:LEU:HD21	1:36:B:TYR:HD2	19	0.17
(1,927)	1:49:B:LEU:HD22	1:36:B:TYR:HD1	19	0.17
(1,927)	1:49:B:LEU:HD22	1:36:B:TYR:HD2	19	0.17
(1,927)	1:49:B:LEU:HD23	1:36:B:TYR:HD1	19	0.17
(1,927)	1:49:B:LEU:HD23	1:36:B:TYR:HD2	19	0.17
(1,926)	1:49:B:LEU:HD11	1:49:B:LEU:HB3	2	0.17
(1,926)	1:49:B:LEU:HD12	1:49:B:LEU:HB3	2	0.17
(1,926)	1:49:B:LEU:HD13	1:49:B:LEU:HB3	2	0.17
(1,926)	1:49:B:LEU:HD11	1:49:B:LEU:HB3	3	0.17
(1,926)	1:49:B:LEU:HD12	1:49:B:LEU:HB3	3	0.17
(1,926)	1:49:B:LEU:HD13	1:49:B:LEU:HB3	3	0.17
(1,926)	1:49:B:LEU:HD11	1:49:B:LEU:HB3	4	0.17
(1,926)	1:49:B:LEU:HD12	1:49:B:LEU:HB3	4	0.17
(1,926)	1:49:B:LEU:HD13	1:49:B:LEU:HB3	4	0.17
(1,926)	1:49:B:LEU:HD11	1:49:B:LEU:HB3	5	0.17
(1,926)	1:49:B:LEU:HD12	1:49:B:LEU:HB3	5	0.17
(1,926)	1:49:B:LEU:HD13	1:49:B:LEU:HB3	5	0.17
(1,926)	1:49:B:LEU:HD11	1:49:B:LEU:HB3	15	0.17
(1,926)	1:49:B:LEU:HD12	1:49:B:LEU:HB3	15	0.17
(1,926)	1:49:B:LEU:HD13	1:49:B:LEU:HB3	15	0.17
(1,926)	1:49:B:LEU:HD11	1:49:B:LEU:HB3	20	0.17
(1,926)	1:49:B:LEU:HD12	1:49:B:LEU:HB3	20	0.17
(1,926)	1:49:B:LEU:HD13	1:49:B:LEU:HB3	20	0.17
(1,858)	1:42:B:LEU:HA	1:42:B:LEU:HB2	1	0.17
(1,858)	1:42:B:LEU:HA	1:42:B:LEU:HB2	6	0.17
(1,858)	1:42:B:LEU:HA	1:42:B:LEU:HB2	7	0.17
(1,858)	1:42:B:LEU:HA	1:42:B:LEU:HB2	8	0.17
(1,858)	1:42:B:LEU:HA	1:42:B:LEU:HB2	9	0.17
(1,858)	1:42:B:LEU:HA	1:42:B:LEU:HB2	10	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,858)	1:42:B:LEU:HA	1:42:B:LEU:HB2	11	0.17
(1,858)	1:42:B:LEU:HA	1:42:B:LEU:HB2	12	0.17
(1,858)	1:42:B:LEU:HA	1:42:B:LEU:HB2	14	0.17
(1,858)	1:42:B:LEU:HA	1:42:B:LEU:HB2	17	0.17
(1,858)	1:42:B:LEU:HA	1:42:B:LEU:HB2	19	0.17
(1,850)	1:27:B:GLU:H	1:26:B:GLY:HA3	7	0.17
(1,850)	1:27:B:GLU:H	1:26:B:GLY:HA3	8	0.17
(1,850)	1:27:B:GLU:H	1:26:B:GLY:HA3	10	0.17
(1,850)	1:27:B:GLU:H	1:26:B:GLY:HA3	11	0.17
(1,850)	1:27:B:GLU:H	1:26:B:GLY:HA3	13	0.17
(1,850)	1:27:B:GLU:H	1:26:B:GLY:HA3	14	0.17
(1,850)	1:27:B:GLU:H	1:26:B:GLY:HA3	17	0.17
(1,842)	1:24:B:ARG:H	1:23:B:LEU:HB3	11	0.17
(1,842)	1:24:B:ARG:H	1:23:B:LEU:HB3	14	0.17
(1,842)	1:24:B:ARG:H	1:23:B:LEU:HB3	15	0.17
(1,825)	1:21:B:HIS:HD2	1:21:B:HIS:HB2	11	0.17
(1,824)	1:21:B:HIS:HD2	1:21:B:HIS:HB3	2	0.17
(1,815)	1:48:B:PRO:HD2	1:47:B:LEU:HA	7	0.17
(1,815)	1:48:B:PRO:HD2	1:47:B:LEU:HA	8	0.17
(1,815)	1:48:B:PRO:HD2	1:47:B:LEU:HA	11	0.17
(1,815)	1:48:B:PRO:HD2	1:47:B:LEU:HA	12	0.17
(1,809)	1:57:B:ARG:HG2	1:57:B:ARG:HA	4	0.17
(1,809)	1:57:B:ARG:HG2	1:57:B:ARG:HA	7	0.17
(1,809)	1:57:B:ARG:HG2	1:57:B:ARG:HA	11	0.17
(1,806)	1:41:B:LEU:HB2	1:25:B:CYS:HA	19	0.17
(1,803)	1:28:B:VAL:H	1:27:B:GLU:HB2	12	0.17
(1,803)	1:28:B:VAL:H	1:27:B:GLU:HB3	12	0.17
(1,803)	1:28:B:VAL:H	1:27:B:GLU:HB2	14	0.17
(1,803)	1:28:B:VAL:H	1:27:B:GLU:HB3	14	0.17
(1,803)	1:28:B:VAL:H	1:27:B:GLU:HB2	17	0.17
(1,803)	1:28:B:VAL:H	1:27:B:GLU:HB3	17	0.17
(1,800)	1:47:B:LEU:H	1:46:B:ARG:HG2	7	0.17
(1,800)	1:47:B:LEU:H	1:46:B:ARG:HG3	7	0.17
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD21	16	0.17
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD22	16	0.17
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD23	16	0.17
(1,760)	1:37:B:GLU:H	1:37:B:GLU:HG2	1	0.17
(1,760)	1:37:B:GLU:H	1:37:B:GLU:HG3	1	0.17
(1,760)	1:37:B:GLU:H	1:37:B:GLU:HG2	7	0.17
(1,760)	1:37:B:GLU:H	1:37:B:GLU:HG3	7	0.17
(1,760)	1:37:B:GLU:H	1:37:B:GLU:HG2	9	0.17
(1,760)	1:37:B:GLU:H	1:37:B:GLU:HG3	9	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,760)	1:37:B:GLU:H	1:37:B:GLU:HG2	10	0.17
(1,760)	1:37:B:GLU:H	1:37:B:GLU:HG3	10	0.17
(1,760)	1:37:B:GLU:H	1:37:B:GLU:HG2	12	0.17
(1,760)	1:37:B:GLU:H	1:37:B:GLU:HG3	12	0.17
(1,760)	1:37:B:GLU:H	1:37:B:GLU:HG2	13	0.17
(1,760)	1:37:B:GLU:H	1:37:B:GLU:HG3	13	0.17
(1,760)	1:37:B:GLU:H	1:37:B:GLU:HG2	14	0.17
(1,760)	1:37:B:GLU:H	1:37:B:GLU:HG3	14	0.17
(1,760)	1:37:B:GLU:H	1:37:B:GLU:HG2	15	0.17
(1,760)	1:37:B:GLU:H	1:37:B:GLU:HG3	15	0.17
(1,760)	1:37:B:GLU:H	1:37:B:GLU:HG2	16	0.17
(1,760)	1:37:B:GLU:H	1:37:B:GLU:HG3	16	0.17
(1,760)	1:37:B:GLU:H	1:37:B:GLU:HG2	17	0.17
(1,760)	1:37:B:GLU:H	1:37:B:GLU:HG3	17	0.17
(1,760)	1:37:B:GLU:H	1:37:B:GLU:HG2	19	0.17
(1,760)	1:37:B:GLU:H	1:37:B:GLU:HG3	19	0.17
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD11	4	0.17
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD12	4	0.17
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD13	4	0.17
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD11	15	0.17
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD12	15	0.17
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD13	15	0.17
(1,730)	1:42:B:LEU:HD11	1:56:B:PHE:HZ	12	0.17
(1,730)	1:42:B:LEU:HD12	1:56:B:PHE:HZ	12	0.17
(1,730)	1:42:B:LEU:HD13	1:56:B:PHE:HZ	12	0.17
(1,730)	1:42:B:LEU:HD11	1:56:B:PHE:HZ	17	0.17
(1,730)	1:42:B:LEU:HD12	1:56:B:PHE:HZ	17	0.17
(1,730)	1:42:B:LEU:HD13	1:56:B:PHE:HZ	17	0.17
(1,729)	1:56:B:PHE:HE1	1:61:B:PHE:HB3	5	0.17
(1,729)	1:56:B:PHE:HE2	1:61:B:PHE:HB3	5	0.17
(1,727)	1:40:B:CYS:HB3	1:52:B:TYR:HE1	4	0.17
(1,727)	1:40:B:CYS:HB3	1:52:B:TYR:HE2	4	0.17
(1,722)	1:30:B:PHE:HZ	1:32:B:ALA:HA	5	0.17
(1,722)	1:30:B:PHE:HZ	1:32:B:ALA:HA	15	0.17
(1,722)	1:30:B:PHE:HZ	1:32:B:ALA:HA	16	0.17
(1,722)	1:30:B:PHE:HZ	1:32:B:ALA:HA	19	0.17
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD11	14	0.17
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD12	14	0.17
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD13	14	0.17
(1,678)	1:56:B:PHE:H	1:55:B:HIS:HB2	11	0.17
(1,678)	1:56:B:PHE:H	1:55:B:HIS:HB2	15	0.17
(1,676)	1:32:B:ALA:HB1	1:30:B:PHE:HE1	16	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,676)	1:32:B:ALA:HB1	1:30:B:PHE:HE2	16	0.17
(1,676)	1:32:B:ALA:HB2	1:30:B:PHE:HE1	16	0.17
(1,676)	1:32:B:ALA:HB2	1:30:B:PHE:HE2	16	0.17
(1,676)	1:32:B:ALA:HB3	1:30:B:PHE:HE1	16	0.17
(1,676)	1:32:B:ALA:HB3	1:30:B:PHE:HE2	16	0.17
(1,670)	1:56:B:PHE:H	1:47:B:LEU:HD11	10	0.17
(1,670)	1:56:B:PHE:H	1:47:B:LEU:HD12	10	0.17
(1,670)	1:56:B:PHE:H	1:47:B:LEU:HD13	10	0.17
(1,670)	1:56:B:PHE:H	1:47:B:LEU:HD11	11	0.17
(1,670)	1:56:B:PHE:H	1:47:B:LEU:HD12	11	0.17
(1,670)	1:56:B:PHE:H	1:47:B:LEU:HD13	11	0.17
(1,670)	1:56:B:PHE:H	1:47:B:LEU:HD11	12	0.17
(1,670)	1:56:B:PHE:H	1:47:B:LEU:HD12	12	0.17
(1,670)	1:56:B:PHE:H	1:47:B:LEU:HD13	12	0.17
(1,670)	1:56:B:PHE:H	1:47:B:LEU:HD11	14	0.17
(1,670)	1:56:B:PHE:H	1:47:B:LEU:HD12	14	0.17
(1,670)	1:56:B:PHE:H	1:47:B:LEU:HD13	14	0.17
(1,663)	1:19:B:GLY:H	1:20:B:TYR:H	9	0.17
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD11	20	0.17
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD12	20	0.17
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD13	20	0.17
(1,658)	1:30:B:PHE:H	1:29:B:LEU:HB3	1	0.17
(1,658)	1:30:B:PHE:H	1:29:B:LEU:HB3	2	0.17
(1,658)	1:30:B:PHE:H	1:29:B:LEU:HB3	4	0.17
(1,658)	1:30:B:PHE:H	1:29:B:LEU:HB3	8	0.17
(1,658)	1:30:B:PHE:H	1:29:B:LEU:HB3	10	0.17
(1,658)	1:30:B:PHE:H	1:29:B:LEU:HB3	11	0.17
(1,658)	1:30:B:PHE:H	1:29:B:LEU:HB3	12	0.17
(1,658)	1:30:B:PHE:H	1:29:B:LEU:HB3	13	0.17
(1,658)	1:30:B:PHE:H	1:29:B:LEU:HB3	14	0.17
(1,658)	1:30:B:PHE:H	1:29:B:LEU:HB3	15	0.17
(1,658)	1:30:B:PHE:H	1:29:B:LEU:HB3	16	0.17
(1,658)	1:30:B:PHE:H	1:29:B:LEU:HB3	17	0.17
(1,643)	1:42:B:LEU:HD21	1:25:B:CYS:HA	11	0.17
(1,643)	1:42:B:LEU:HD22	1:25:B:CYS:HA	11	0.17
(1,643)	1:42:B:LEU:HD23	1:25:B:CYS:HA	11	0.17
(1,643)	1:42:B:LEU:HD21	1:25:B:CYS:HA	14	0.17
(1,643)	1:42:B:LEU:HD22	1:25:B:CYS:HA	14	0.17
(1,643)	1:42:B:LEU:HD23	1:25:B:CYS:HA	14	0.17
(1,641)	1:38:B:VAL:HG11	1:37:B:GLU:HA	3	0.17
(1,641)	1:38:B:VAL:HG12	1:37:B:GLU:HA	3	0.17
(1,641)	1:38:B:VAL:HG13	1:37:B:GLU:HA	3	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,641)	1:38:B:VAL:HG11	1:37:B:GLU:HA	8	0.17
(1,641)	1:38:B:VAL:HG12	1:37:B:GLU:HA	8	0.17
(1,641)	1:38:B:VAL:HG13	1:37:B:GLU:HA	8	0.17
(1,641)	1:38:B:VAL:HG11	1:37:B:GLU:HA	11	0.17
(1,641)	1:38:B:VAL:HG12	1:37:B:GLU:HA	11	0.17
(1,641)	1:38:B:VAL:HG13	1:37:B:GLU:HA	11	0.17
(1,641)	1:38:B:VAL:HG11	1:37:B:GLU:HA	14	0.17
(1,641)	1:38:B:VAL:HG12	1:37:B:GLU:HA	14	0.17
(1,641)	1:38:B:VAL:HG13	1:37:B:GLU:HA	14	0.17
(1,641)	1:38:B:VAL:HG11	1:37:B:GLU:HA	15	0.17
(1,641)	1:38:B:VAL:HG12	1:37:B:GLU:HA	15	0.17
(1,641)	1:38:B:VAL:HG13	1:37:B:GLU:HA	15	0.17
(1,641)	1:38:B:VAL:HG11	1:37:B:GLU:HA	17	0.17
(1,641)	1:38:B:VAL:HG12	1:37:B:GLU:HA	17	0.17
(1,641)	1:38:B:VAL:HG13	1:37:B:GLU:HA	17	0.17
(1,641)	1:38:B:VAL:HG11	1:37:B:GLU:HA	18	0.17
(1,641)	1:38:B:VAL:HG12	1:37:B:GLU:HA	18	0.17
(1,641)	1:38:B:VAL:HG13	1:37:B:GLU:HA	18	0.17
(1,641)	1:38:B:VAL:HG11	1:37:B:GLU:HA	19	0.17
(1,641)	1:38:B:VAL:HG12	1:37:B:GLU:HA	19	0.17
(1,641)	1:38:B:VAL:HG13	1:37:B:GLU:HA	19	0.17
(1,625)	1:42:B:LEU:HD11	1:25:B:CYS:HA	3	0.17
(1,625)	1:42:B:LEU:HD12	1:25:B:CYS:HA	3	0.17
(1,625)	1:42:B:LEU:HD13	1:25:B:CYS:HA	3	0.17
(1,608)	1:59:B:LYS:H	1:58:B:LEU:HB3	3	0.17
(1,608)	1:59:B:LYS:H	1:58:B:LEU:HB3	6	0.17
(1,608)	1:59:B:LYS:H	1:58:B:LEU:HB3	10	0.17
(1,608)	1:59:B:LYS:H	1:58:B:LEU:HB3	20	0.17
(1,602)	1:61:B:PHE:HB3	1:56:B:PHE:HD1	9	0.17
(1,602)	1:61:B:PHE:HB3	1:56:B:PHE:HD2	9	0.17
(1,575)	1:37:B:GLU:HA	1:48:B:PRO:HA	7	0.17
(1,575)	1:37:B:GLU:HA	1:48:B:PRO:HA	10	0.17
(1,574)	1:49:B:LEU:HA	1:38:B:VAL:HB	15	0.17
(1,574)	1:49:B:LEU:HA	1:38:B:VAL:HB	17	0.17
(1,571)	1:34:B:ALA:HA	1:36:B:TYR:HD1	8	0.17
(1,571)	1:34:B:ALA:HA	1:36:B:TYR:HD2	8	0.17
(1,530)	1:47:A:LEU:H	1:39:A:SER:HA	5	0.17
(1,518)	1:41:A:LEU:H	1:40:A:CYS:HB2	1	0.17
(1,518)	1:41:A:LEU:H	1:40:A:CYS:HB2	9	0.17
(1,499)	1:34:A:ALA:H	1:34:A:ALA:HA	1	0.17
(1,499)	1:34:A:ALA:H	1:34:A:ALA:HA	2	0.17
(1,499)	1:34:A:ALA:H	1:34:A:ALA:HA	3	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,499)	1:34:A:ALA:H	1:34:A:ALA:HA	4	0.17
(1,499)	1:34:A:ALA:H	1:34:A:ALA:HA	5	0.17
(1,499)	1:34:A:ALA:H	1:34:A:ALA:HA	6	0.17
(1,499)	1:34:A:ALA:H	1:34:A:ALA:HA	7	0.17
(1,499)	1:34:A:ALA:H	1:34:A:ALA:HA	8	0.17
(1,499)	1:34:A:ALA:H	1:34:A:ALA:HA	9	0.17
(1,499)	1:34:A:ALA:H	1:34:A:ALA:HA	10	0.17
(1,499)	1:34:A:ALA:H	1:34:A:ALA:HA	11	0.17
(1,499)	1:34:A:ALA:H	1:34:A:ALA:HA	12	0.17
(1,499)	1:34:A:ALA:H	1:34:A:ALA:HA	13	0.17
(1,499)	1:34:A:ALA:H	1:34:A:ALA:HA	14	0.17
(1,499)	1:34:A:ALA:H	1:34:A:ALA:HA	15	0.17
(1,499)	1:34:A:ALA:H	1:34:A:ALA:HA	16	0.17
(1,499)	1:34:A:ALA:H	1:34:A:ALA:HA	17	0.17
(1,499)	1:34:A:ALA:H	1:34:A:ALA:HA	18	0.17
(1,499)	1:34:A:ALA:H	1:34:A:ALA:HA	19	0.17
(1,499)	1:34:A:ALA:H	1:34:A:ALA:HA	20	0.17
(1,497)	1:32:A:ALA:H	1:31:A:SER:HB3	13	0.17
(1,497)	1:32:A:ALA:H	1:31:A:SER:HB3	20	0.17
(1,457)	1:57:A:ARG:HD2	1:57:A:ARG:HG3	7	0.17
(1,457)	1:57:A:ARG:HD2	1:57:A:ARG:HG3	14	0.17
(1,457)	1:57:A:ARG:HD2	1:57:A:ARG:HG3	19	0.17
(1,457)	1:57:A:ARG:HD2	1:57:A:ARG:HG3	20	0.17
(1,446)	1:49:A:LEU:HD21	1:36:A:TYR:HD1	11	0.17
(1,446)	1:49:A:LEU:HD21	1:36:A:TYR:HD2	11	0.17
(1,446)	1:49:A:LEU:HD22	1:36:A:TYR:HD1	11	0.17
(1,446)	1:49:A:LEU:HD22	1:36:A:TYR:HD2	11	0.17
(1,446)	1:49:A:LEU:HD23	1:36:A:TYR:HD1	11	0.17
(1,446)	1:49:A:LEU:HD23	1:36:A:TYR:HD2	11	0.17
(1,445)	1:49:A:LEU:HD11	1:49:A:LEU:HB3	2	0.17
(1,445)	1:49:A:LEU:HD12	1:49:A:LEU:HB3	2	0.17
(1,445)	1:49:A:LEU:HD13	1:49:A:LEU:HB3	2	0.17
(1,445)	1:49:A:LEU:HD11	1:49:A:LEU:HB3	3	0.17
(1,445)	1:49:A:LEU:HD12	1:49:A:LEU:HB3	3	0.17
(1,445)	1:49:A:LEU:HD13	1:49:A:LEU:HB3	3	0.17
(1,445)	1:49:A:LEU:HD11	1:49:A:LEU:HB3	4	0.17
(1,445)	1:49:A:LEU:HD12	1:49:A:LEU:HB3	4	0.17
(1,445)	1:49:A:LEU:HD13	1:49:A:LEU:HB3	4	0.17
(1,445)	1:49:A:LEU:HD11	1:49:A:LEU:HB3	5	0.17
(1,445)	1:49:A:LEU:HD12	1:49:A:LEU:HB3	5	0.17
(1,445)	1:49:A:LEU:HD13	1:49:A:LEU:HB3	5	0.17
(1,445)	1:49:A:LEU:HD11	1:49:A:LEU:HB3	7	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,445)	1:49:A:LEU:HD12	1:49:A:LEU:HB3	7	0.17
(1,445)	1:49:A:LEU:HD13	1:49:A:LEU:HB3	7	0.17
(1,445)	1:49:A:LEU:HD11	1:49:A:LEU:HB3	9	0.17
(1,445)	1:49:A:LEU:HD12	1:49:A:LEU:HB3	9	0.17
(1,445)	1:49:A:LEU:HD13	1:49:A:LEU:HB3	9	0.17
(1,445)	1:49:A:LEU:HD11	1:49:A:LEU:HB3	11	0.17
(1,445)	1:49:A:LEU:HD12	1:49:A:LEU:HB3	11	0.17
(1,445)	1:49:A:LEU:HD13	1:49:A:LEU:HB3	11	0.17
(1,445)	1:49:A:LEU:HD11	1:49:A:LEU:HB3	19	0.17
(1,445)	1:49:A:LEU:HD12	1:49:A:LEU:HB3	19	0.17
(1,445)	1:49:A:LEU:HD13	1:49:A:LEU:HB3	19	0.17
(1,445)	1:49:A:LEU:HD11	1:49:A:LEU:HB3	20	0.17
(1,445)	1:49:A:LEU:HD12	1:49:A:LEU:HB3	20	0.17
(1,445)	1:49:A:LEU:HD13	1:49:A:LEU:HB3	20	0.17
(1,377)	1:42:A:LEU:HA	1:42:A:LEU:HB2	6	0.17
(1,377)	1:42:A:LEU:HA	1:42:A:LEU:HB2	8	0.17
(1,377)	1:42:A:LEU:HA	1:42:A:LEU:HB2	10	0.17
(1,377)	1:42:A:LEU:HA	1:42:A:LEU:HB2	13	0.17
(1,377)	1:42:A:LEU:HA	1:42:A:LEU:HB2	15	0.17
(1,377)	1:42:A:LEU:HA	1:42:A:LEU:HB2	16	0.17
(1,377)	1:42:A:LEU:HA	1:42:A:LEU:HB2	18	0.17
(1,369)	1:27:A:GLU:H	1:26:A:GLY:HA3	2	0.17
(1,369)	1:27:A:GLU:H	1:26:A:GLY:HA3	13	0.17
(1,369)	1:27:A:GLU:H	1:26:A:GLY:HA3	14	0.17
(1,361)	1:24:A:ARG:H	1:23:A:LEU:HB3	7	0.17
(1,361)	1:24:A:ARG:H	1:23:A:LEU:HB3	14	0.17
(1,361)	1:24:A:ARG:H	1:23:A:LEU:HB3	15	0.17
(1,339)	1:27:A:GLU:HG2	1:41:A:LEU:HD21	12	0.17
(1,339)	1:27:A:GLU:HG2	1:41:A:LEU:HD22	12	0.17
(1,339)	1:27:A:GLU:HG2	1:41:A:LEU:HD23	12	0.17
(1,339)	1:27:A:GLU:HG3	1:41:A:LEU:HD21	12	0.17
(1,339)	1:27:A:GLU:HG3	1:41:A:LEU:HD22	12	0.17
(1,339)	1:27:A:GLU:HG3	1:41:A:LEU:HD23	12	0.17
(1,334)	1:48:A:PRO:HD2	1:47:A:LEU:HA	5	0.17
(1,334)	1:48:A:PRO:HD2	1:47:A:LEU:HA	10	0.17
(1,334)	1:48:A:PRO:HD2	1:47:A:LEU:HA	15	0.17
(1,334)	1:48:A:PRO:HD2	1:47:A:LEU:HA	16	0.17
(1,328)	1:57:A:ARG:HG2	1:57:A:ARG:HA	15	0.17
(1,325)	1:41:A:LEU:HB2	1:25:A:CYS:HA	6	0.17
(1,325)	1:41:A:LEU:HB2	1:25:A:CYS:HA	10	0.17
(1,322)	1:28:A:VAL:H	1:27:A:GLU:HB2	8	0.17
(1,322)	1:28:A:VAL:H	1:27:A:GLU:HB3	8	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD21	17	0.17
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD22	17	0.17
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD23	17	0.17
(1,294)	1:45:A:GLN:H	1:40:A:CYS:HB2	17	0.17
(1,279)	1:37:A:GLU:H	1:37:A:GLU:HG2	1	0.17
(1,279)	1:37:A:GLU:H	1:37:A:GLU:HG3	1	0.17
(1,279)	1:37:A:GLU:H	1:37:A:GLU:HG2	6	0.17
(1,279)	1:37:A:GLU:H	1:37:A:GLU:HG3	6	0.17
(1,279)	1:37:A:GLU:H	1:37:A:GLU:HG2	8	0.17
(1,279)	1:37:A:GLU:H	1:37:A:GLU:HG3	8	0.17
(1,279)	1:37:A:GLU:H	1:37:A:GLU:HG2	10	0.17
(1,279)	1:37:A:GLU:H	1:37:A:GLU:HG3	10	0.17
(1,279)	1:37:A:GLU:H	1:37:A:GLU:HG2	15	0.17
(1,279)	1:37:A:GLU:H	1:37:A:GLU:HG3	15	0.17
(1,279)	1:37:A:GLU:H	1:37:A:GLU:HG2	16	0.17
(1,279)	1:37:A:GLU:H	1:37:A:GLU:HG3	16	0.17
(1,279)	1:37:A:GLU:H	1:37:A:GLU:HG2	18	0.17
(1,279)	1:37:A:GLU:H	1:37:A:GLU:HG3	18	0.17
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD11	5	0.17
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD12	5	0.17
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD13	5	0.17
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD11	12	0.17
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD12	12	0.17
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD13	12	0.17
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD11	14	0.17
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD12	14	0.17
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD13	14	0.17
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD11	20	0.17
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD12	20	0.17
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD13	20	0.17
(1,243)	1:61:A:PHE:H	1:57:A:ARG:HA	2	0.17
(1,243)	1:61:A:PHE:H	1:57:A:ARG:HA	3	0.17
(1,243)	1:61:A:PHE:H	1:57:A:ARG:HA	4	0.17
(1,241)	1:30:A:PHE:HZ	1:32:A:ALA:HA	1	0.17
(1,241)	1:30:A:PHE:HZ	1:32:A:ALA:HA	3	0.17
(1,241)	1:30:A:PHE:HZ	1:32:A:ALA:HA	6	0.17
(1,241)	1:30:A:PHE:HZ	1:32:A:ALA:HA	13	0.17
(1,241)	1:30:A:PHE:HZ	1:32:A:ALA:HA	20	0.17
(1,240)	1:30:A:PHE:HE1	1:32:A:ALA:HA	3	0.17
(1,240)	1:30:A:PHE:HE2	1:32:A:ALA:HA	3	0.17
(1,240)	1:30:A:PHE:HE1	1:32:A:ALA:HA	9	0.17
(1,240)	1:30:A:PHE:HE2	1:32:A:ALA:HA	9	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,240)	1:30:A:PHE:HE1	1:32:A:ALA:HA	10	0.17
(1,240)	1:30:A:PHE:HE2	1:32:A:ALA:HA	10	0.17
(1,240)	1:30:A:PHE:HE1	1:32:A:ALA:HA	18	0.17
(1,240)	1:30:A:PHE:HE2	1:32:A:ALA:HA	18	0.17
(1,221)	1:42:A:LEU:H	1:43:A:CYS:H	16	0.17
(1,197)	1:56:A:PHE:H	1:55:A:HIS:HB2	11	0.17
(1,197)	1:56:A:PHE:H	1:55:A:HIS:HB2	12	0.17
(1,189)	1:56:A:PHE:H	1:47:A:LEU:HD11	10	0.17
(1,189)	1:56:A:PHE:H	1:47:A:LEU:HD12	10	0.17
(1,189)	1:56:A:PHE:H	1:47:A:LEU:HD13	10	0.17
(1,189)	1:56:A:PHE:H	1:47:A:LEU:HD11	16	0.17
(1,189)	1:56:A:PHE:H	1:47:A:LEU:HD12	16	0.17
(1,189)	1:56:A:PHE:H	1:47:A:LEU:HD13	16	0.17
(1,182)	1:19:A:GLY:H	1:20:A:TYR:H	13	0.17
(1,182)	1:19:A:GLY:H	1:20:A:TYR:H	19	0.17
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD11	9	0.17
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD12	9	0.17
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD13	9	0.17
(1,177)	1:30:A:PHE:H	1:29:A:LEU:HB3	2	0.17
(1,177)	1:30:A:PHE:H	1:29:A:LEU:HB3	4	0.17
(1,177)	1:30:A:PHE:H	1:29:A:LEU:HB3	7	0.17
(1,177)	1:30:A:PHE:H	1:29:A:LEU:HB3	11	0.17
(1,177)	1:30:A:PHE:H	1:29:A:LEU:HB3	18	0.17
(1,164)	1:59:A:LYS:HD2	1:59:A:LYS:HA	1	0.17
(1,164)	1:59:A:LYS:HD3	1:59:A:LYS:HA	1	0.17
(1,162)	1:42:A:LEU:HD21	1:25:A:CYS:HA	7	0.17
(1,162)	1:42:A:LEU:HD22	1:25:A:CYS:HA	7	0.17
(1,162)	1:42:A:LEU:HD23	1:25:A:CYS:HA	7	0.17
(1,160)	1:38:A:VAL:HG11	1:37:A:GLU:HA	1	0.17
(1,160)	1:38:A:VAL:HG12	1:37:A:GLU:HA	1	0.17
(1,160)	1:38:A:VAL:HG13	1:37:A:GLU:HA	1	0.17
(1,160)	1:38:A:VAL:HG11	1:37:A:GLU:HA	2	0.17
(1,160)	1:38:A:VAL:HG12	1:37:A:GLU:HA	2	0.17
(1,160)	1:38:A:VAL:HG13	1:37:A:GLU:HA	2	0.17
(1,160)	1:38:A:VAL:HG11	1:37:A:GLU:HA	3	0.17
(1,160)	1:38:A:VAL:HG12	1:37:A:GLU:HA	3	0.17
(1,160)	1:38:A:VAL:HG13	1:37:A:GLU:HA	3	0.17
(1,160)	1:38:A:VAL:HG11	1:37:A:GLU:HA	4	0.17
(1,160)	1:38:A:VAL:HG12	1:37:A:GLU:HA	4	0.17
(1,160)	1:38:A:VAL:HG13	1:37:A:GLU:HA	4	0.17
(1,160)	1:38:A:VAL:HG11	1:37:A:GLU:HA	5	0.17
(1,160)	1:38:A:VAL:HG12	1:37:A:GLU:HA	5	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,160)	1:38:A:VAL:HG13	1:37:A:GLU:HA	5	0.17
(1,160)	1:38:A:VAL:HG11	1:37:A:GLU:HA	9	0.17
(1,160)	1:38:A:VAL:HG12	1:37:A:GLU:HA	9	0.17
(1,160)	1:38:A:VAL:HG13	1:37:A:GLU:HA	9	0.17
(1,160)	1:38:A:VAL:HG11	1:37:A:GLU:HA	10	0.17
(1,160)	1:38:A:VAL:HG12	1:37:A:GLU:HA	10	0.17
(1,160)	1:38:A:VAL:HG13	1:37:A:GLU:HA	10	0.17
(1,160)	1:38:A:VAL:HG11	1:37:A:GLU:HA	14	0.17
(1,160)	1:38:A:VAL:HG12	1:37:A:GLU:HA	14	0.17
(1,160)	1:38:A:VAL:HG13	1:37:A:GLU:HA	14	0.17
(1,160)	1:38:A:VAL:HG11	1:37:A:GLU:HA	17	0.17
(1,160)	1:38:A:VAL:HG12	1:37:A:GLU:HA	17	0.17
(1,160)	1:38:A:VAL:HG13	1:37:A:GLU:HA	17	0.17
(1,160)	1:38:A:VAL:HG11	1:37:A:GLU:HA	19	0.17
(1,160)	1:38:A:VAL:HG12	1:37:A:GLU:HA	19	0.17
(1,160)	1:38:A:VAL:HG13	1:37:A:GLU:HA	19	0.17
(1,146)	1:39:A:SER:HA	1:46:A:ARG:HA	1	0.17
(1,146)	1:39:A:SER:HA	1:46:A:ARG:HA	17	0.17
(1,144)	1:42:A:LEU:HD11	1:25:A:CYS:HA	9	0.17
(1,144)	1:42:A:LEU:HD12	1:25:A:CYS:HA	9	0.17
(1,144)	1:42:A:LEU:HD13	1:25:A:CYS:HA	9	0.17
(1,127)	1:59:A:LYS:H	1:58:A:LEU:HB3	1	0.17
(1,127)	1:59:A:LYS:H	1:58:A:LEU:HB3	3	0.17
(1,127)	1:59:A:LYS:H	1:58:A:LEU:HB3	5	0.17
(1,127)	1:59:A:LYS:H	1:58:A:LEU:HB3	14	0.17
(1,121)	1:61:A:PHE:HB3	1:56:A:PHE:HD1	2	0.17
(1,121)	1:61:A:PHE:HB3	1:56:A:PHE:HD2	2	0.17
(1,121)	1:61:A:PHE:HB3	1:56:A:PHE:HD1	7	0.17
(1,121)	1:61:A:PHE:HB3	1:56:A:PHE:HD2	7	0.17
(1,121)	1:61:A:PHE:HB3	1:56:A:PHE:HD1	13	0.17
(1,121)	1:61:A:PHE:HB3	1:56:A:PHE:HD2	13	0.17
(1,94)	1:37:A:GLU:HA	1:48:A:PRO:HA	10	0.17
(1,94)	1:37:A:GLU:HA	1:48:A:PRO:HA	13	0.17
(1,90)	1:34:A:ALA:HA	1:36:A:TYR:HD1	5	0.17
(1,90)	1:34:A:ALA:HA	1:36:A:TYR:HD2	5	0.17
(1,90)	1:34:A:ALA:HA	1:36:A:TYR:HD1	12	0.17
(1,90)	1:34:A:ALA:HA	1:36:A:TYR:HD2	12	0.17
(1,78)	1:36:B:TYR:HE1	1:56:A:PHE:H	20	0.17
(1,78)	1:36:B:TYR:HE2	1:56:A:PHE:H	20	0.17
(1,77)	1:36:A:TYR:HE1	1:56:B:PHE:H	15	0.17
(1,77)	1:36:A:TYR:HE2	1:56:B:PHE:H	15	0.17
(1,77)	1:36:A:TYR:HE1	1:56:B:PHE:H	16	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,77)	1:36:A:TYR:HE2	1:56:B:PHE:H	16	0.17
(1,75)	1:22:A:ASN:H	1:32:B:ALA:H	10	0.17
(1,72)	1:32:B:ALA:H	1:20:A:TYR:HB3	1	0.17
(1,72)	1:32:B:ALA:H	1:20:A:TYR:HB3	12	0.17
(1,72)	1:32:B:ALA:H	1:20:A:TYR:HB3	15	0.17
(1,44)	1:29:A:LEU:HD11	1:25:B:CYS:H	16	0.17
(1,44)	1:29:A:LEU:HD12	1:25:B:CYS:H	16	0.17
(1,44)	1:29:A:LEU:HD13	1:25:B:CYS:H	16	0.17
(1,44)	1:29:A:LEU:HD21	1:25:B:CYS:H	16	0.17
(1,44)	1:29:A:LEU:HD22	1:25:B:CYS:H	16	0.17
(1,44)	1:29:A:LEU:HD23	1:25:B:CYS:H	16	0.17
(1,43)	1:29:B:LEU:HD11	1:25:A:CYS:H	3	0.17
(1,43)	1:29:B:LEU:HD12	1:25:A:CYS:H	3	0.17
(1,43)	1:29:B:LEU:HD13	1:25:A:CYS:H	3	0.17
(1,43)	1:29:B:LEU:HD21	1:25:A:CYS:H	3	0.17
(1,43)	1:29:B:LEU:HD22	1:25:A:CYS:H	3	0.17
(1,43)	1:29:B:LEU:HD23	1:25:A:CYS:H	3	0.17
(1,43)	1:29:B:LEU:HD11	1:25:A:CYS:H	6	0.17
(1,43)	1:29:B:LEU:HD12	1:25:A:CYS:H	6	0.17
(1,43)	1:29:B:LEU:HD13	1:25:A:CYS:H	6	0.17
(1,43)	1:29:B:LEU:HD21	1:25:A:CYS:H	6	0.17
(1,43)	1:29:B:LEU:HD22	1:25:A:CYS:H	6	0.17
(1,43)	1:29:B:LEU:HD23	1:25:A:CYS:H	6	0.17
(1,43)	1:29:B:LEU:HD11	1:25:A:CYS:H	18	0.17
(1,43)	1:29:B:LEU:HD12	1:25:A:CYS:H	18	0.17
(1,43)	1:29:B:LEU:HD13	1:25:A:CYS:H	18	0.17
(1,43)	1:29:B:LEU:HD21	1:25:A:CYS:H	18	0.17
(1,43)	1:29:B:LEU:HD22	1:25:A:CYS:H	18	0.17
(1,43)	1:29:B:LEU:HD23	1:25:A:CYS:H	18	0.17
(1,41)	1:22:A:ASN:HB2	1:29:B:LEU:HD21	15	0.17
(1,41)	1:22:A:ASN:HB2	1:29:B:LEU:HD22	15	0.17
(1,41)	1:22:A:ASN:HB2	1:29:B:LEU:HD23	15	0.17
(1,24)	1:30:B:PHE:HE1	1:61:A:PHE:HZ	13	0.17
(1,24)	1:30:B:PHE:HE2	1:61:A:PHE:HZ	13	0.17
(1,22)	1:30:B:PHE:HD1	1:23:A:LEU:HG	5	0.17
(1,22)	1:30:B:PHE:HD2	1:23:A:LEU:HG	5	0.17
(1,21)	1:30:A:PHE:HD1	1:23:B:LEU:HG	9	0.17
(1,21)	1:30:A:PHE:HD2	1:23:B:LEU:HG	9	0.17
(1,3)	1:49:A:LEU:HD11	1:50:B:ASP:HA	7	0.17
(1,3)	1:49:A:LEU:HD12	1:50:B:ASP:HA	7	0.17
(1,3)	1:49:A:LEU:HD13	1:50:B:ASP:HA	7	0.17
(1,984)	1:35:B:SER:H	1:36:B:TYR:H	1	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,984)	1:35:B:SER:H	1:36:B:TYR:H	2	0.16
(1,984)	1:35:B:SER:H	1:36:B:TYR:H	4	0.16
(1,984)	1:35:B:SER:H	1:36:B:TYR:H	19	0.16
(1,978)	1:32:B:ALA:H	1:31:B:SER:HB3	5	0.16
(1,978)	1:32:B:ALA:H	1:31:B:SER:HB3	6	0.16
(1,978)	1:32:B:ALA:H	1:31:B:SER:HB3	8	0.16
(1,969)	1:28:B:VAL:H	1:27:B:GLU:HG2	11	0.16
(1,969)	1:28:B:VAL:H	1:27:B:GLU:HG3	11	0.16
(1,946)	1:59:B:LYS:HE3	1:59:B:LYS:HG2	16	0.16
(1,946)	1:59:B:LYS:HE3	1:59:B:LYS:HG3	16	0.16
(1,938)	1:57:B:ARG:HD2	1:57:B:ARG:HG3	13	0.16
(1,933)	1:54:B:GLU:HB3	1:54:B:GLU:HG2	1	0.16
(1,933)	1:54:B:GLU:HB3	1:54:B:GLU:HG3	1	0.16
(1,933)	1:54:B:GLU:HB3	1:54:B:GLU:HG2	6	0.16
(1,933)	1:54:B:GLU:HB3	1:54:B:GLU:HG3	6	0.16
(1,933)	1:54:B:GLU:HB3	1:54:B:GLU:HG2	10	0.16
(1,933)	1:54:B:GLU:HB3	1:54:B:GLU:HG3	10	0.16
(1,933)	1:54:B:GLU:HB3	1:54:B:GLU:HG2	12	0.16
(1,933)	1:54:B:GLU:HB3	1:54:B:GLU:HG3	12	0.16
(1,933)	1:54:B:GLU:HB3	1:54:B:GLU:HG2	13	0.16
(1,933)	1:54:B:GLU:HB3	1:54:B:GLU:HG3	13	0.16
(1,933)	1:54:B:GLU:HB3	1:54:B:GLU:HG2	17	0.16
(1,933)	1:54:B:GLU:HB3	1:54:B:GLU:HG3	17	0.16
(1,933)	1:54:B:GLU:HB3	1:54:B:GLU:HG2	18	0.16
(1,933)	1:54:B:GLU:HB3	1:54:B:GLU:HG3	18	0.16
(1,933)	1:54:B:GLU:HB3	1:54:B:GLU:HG2	19	0.16
(1,933)	1:54:B:GLU:HB3	1:54:B:GLU:HG3	19	0.16
(1,909)	1:25:B:CYS:HB2	1:42:B:LEU:HD11	14	0.16
(1,909)	1:25:B:CYS:HB2	1:42:B:LEU:HD12	14	0.16
(1,909)	1:25:B:CYS:HB2	1:42:B:LEU:HD13	14	0.16
(1,850)	1:27:B:GLU:H	1:26:B:GLY:HA3	5	0.16
(1,850)	1:27:B:GLU:H	1:26:B:GLY:HA3	15	0.16
(1,850)	1:27:B:GLU:H	1:26:B:GLY:HA3	18	0.16
(1,850)	1:27:B:GLU:H	1:26:B:GLY:HA3	20	0.16
(1,842)	1:24:B:ARG:H	1:23:B:LEU:HB3	6	0.16
(1,842)	1:24:B:ARG:H	1:23:B:LEU:HB3	13	0.16
(1,842)	1:24:B:ARG:H	1:23:B:LEU:HB3	18	0.16
(1,815)	1:48:B:PRO:HD2	1:47:B:LEU:HA	1	0.16
(1,815)	1:48:B:PRO:HD2	1:47:B:LEU:HA	2	0.16
(1,815)	1:48:B:PRO:HD2	1:47:B:LEU:HA	5	0.16
(1,815)	1:48:B:PRO:HD2	1:47:B:LEU:HA	10	0.16
(1,809)	1:57:B:ARG:HG2	1:57:B:ARG:HA	2	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,809)	1:57:B:ARG:HG2	1:57:B:ARG:HA	5	0.16
(1,809)	1:57:B:ARG:HG2	1:57:B:ARG:HA	13	0.16
(1,809)	1:57:B:ARG:HG2	1:57:B:ARG:HA	19	0.16
(1,796)	1:54:B:GLU:H	1:54:B:GLU:HG2	1	0.16
(1,796)	1:54:B:GLU:H	1:54:B:GLU:HG3	1	0.16
(1,796)	1:54:B:GLU:H	1:54:B:GLU:HG2	2	0.16
(1,796)	1:54:B:GLU:H	1:54:B:GLU:HG3	2	0.16
(1,796)	1:54:B:GLU:H	1:54:B:GLU:HG2	3	0.16
(1,796)	1:54:B:GLU:H	1:54:B:GLU:HG3	3	0.16
(1,796)	1:54:B:GLU:H	1:54:B:GLU:HG2	4	0.16
(1,796)	1:54:B:GLU:H	1:54:B:GLU:HG3	4	0.16
(1,796)	1:54:B:GLU:H	1:54:B:GLU:HG2	5	0.16
(1,796)	1:54:B:GLU:H	1:54:B:GLU:HG3	5	0.16
(1,796)	1:54:B:GLU:H	1:54:B:GLU:HG2	6	0.16
(1,796)	1:54:B:GLU:H	1:54:B:GLU:HG3	6	0.16
(1,796)	1:54:B:GLU:H	1:54:B:GLU:HG2	7	0.16
(1,796)	1:54:B:GLU:H	1:54:B:GLU:HG3	7	0.16
(1,796)	1:54:B:GLU:H	1:54:B:GLU:HG2	8	0.16
(1,796)	1:54:B:GLU:H	1:54:B:GLU:HG3	8	0.16
(1,796)	1:54:B:GLU:H	1:54:B:GLU:HG2	9	0.16
(1,796)	1:54:B:GLU:H	1:54:B:GLU:HG3	9	0.16
(1,796)	1:54:B:GLU:H	1:54:B:GLU:HG2	10	0.16
(1,796)	1:54:B:GLU:H	1:54:B:GLU:HG3	10	0.16
(1,796)	1:54:B:GLU:H	1:54:B:GLU:HG2	11	0.16
(1,796)	1:54:B:GLU:H	1:54:B:GLU:HG3	11	0.16
(1,796)	1:54:B:GLU:H	1:54:B:GLU:HG2	12	0.16
(1,796)	1:54:B:GLU:H	1:54:B:GLU:HG3	12	0.16
(1,796)	1:54:B:GLU:H	1:54:B:GLU:HG2	13	0.16
(1,796)	1:54:B:GLU:H	1:54:B:GLU:HG3	13	0.16
(1,796)	1:54:B:GLU:H	1:54:B:GLU:HG2	14	0.16
(1,796)	1:54:B:GLU:H	1:54:B:GLU:HG3	14	0.16
(1,796)	1:54:B:GLU:H	1:54:B:GLU:HG2	15	0.16
(1,796)	1:54:B:GLU:H	1:54:B:GLU:HG3	15	0.16
(1,796)	1:54:B:GLU:H	1:54:B:GLU:HG2	16	0.16
(1,796)	1:54:B:GLU:H	1:54:B:GLU:HG3	16	0.16
(1,796)	1:54:B:GLU:H	1:54:B:GLU:HG2	17	0.16
(1,796)	1:54:B:GLU:H	1:54:B:GLU:HG3	17	0.16
(1,796)	1:54:B:GLU:H	1:54:B:GLU:HG2	18	0.16
(1,796)	1:54:B:GLU:H	1:54:B:GLU:HG3	18	0.16
(1,796)	1:54:B:GLU:H	1:54:B:GLU:HG2	19	0.16
(1,796)	1:54:B:GLU:H	1:54:B:GLU:HG3	19	0.16
(1,796)	1:54:B:GLU:H	1:54:B:GLU:HG2	20	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,796)	1:54:B:GLU:H	1:54:B:GLU:HG3	20	0.16
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD21	15	0.16
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD22	15	0.16
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD23	15	0.16
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD21	20	0.16
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD22	20	0.16
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD23	20	0.16
(1,760)	1:37:B:GLU:H	1:37:B:GLU:HG2	6	0.16
(1,760)	1:37:B:GLU:H	1:37:B:GLU:HG3	6	0.16
(1,760)	1:37:B:GLU:H	1:37:B:GLU:HG2	11	0.16
(1,760)	1:37:B:GLU:H	1:37:B:GLU:HG3	11	0.16
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD11	2	0.16
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD12	2	0.16
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD13	2	0.16
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD11	6	0.16
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD12	6	0.16
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD13	6	0.16
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD11	9	0.16
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD12	9	0.16
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD13	9	0.16
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD11	12	0.16
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD12	12	0.16
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD13	12	0.16
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD11	14	0.16
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD12	14	0.16
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD13	14	0.16
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD11	19	0.16
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD12	19	0.16
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD13	19	0.16
(1,727)	1:40:B:CYS:HB3	1:52:B:TYR:HE1	16	0.16
(1,727)	1:40:B:CYS:HB3	1:52:B:TYR:HE2	16	0.16
(1,725)	1:60:B:HIS:H	1:57:B:ARG:HA	11	0.16
(1,724)	1:61:B:PHE:H	1:57:B:ARG:HA	13	0.16
(1,724)	1:61:B:PHE:H	1:57:B:ARG:HA	16	0.16
(1,724)	1:61:B:PHE:H	1:57:B:ARG:HA	18	0.16
(1,722)	1:30:B:PHE:HZ	1:32:B:ALA:HA	1	0.16
(1,721)	1:30:B:PHE:HE1	1:32:B:ALA:HA	2	0.16
(1,721)	1:30:B:PHE:HE2	1:32:B:ALA:HA	2	0.16
(1,721)	1:30:B:PHE:HE1	1:32:B:ALA:HA	4	0.16
(1,721)	1:30:B:PHE:HE2	1:32:B:ALA:HA	4	0.16
(1,721)	1:30:B:PHE:HE1	1:32:B:ALA:HA	10	0.16
(1,721)	1:30:B:PHE:HE2	1:32:B:ALA:HA	10	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,721)	1:30:B:PHE:HE1	1:32:B:ALA:HA	12	0.16
(1,721)	1:30:B:PHE:HE2	1:32:B:ALA:HA	12	0.16
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD11	1	0.16
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD12	1	0.16
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD13	1	0.16
(1,702)	1:42:B:LEU:H	1:43:B:CYS:H	1	0.16
(1,702)	1:42:B:LEU:H	1:43:B:CYS:H	6	0.16
(1,702)	1:42:B:LEU:H	1:43:B:CYS:H	7	0.16
(1,702)	1:42:B:LEU:H	1:43:B:CYS:H	8	0.16
(1,702)	1:42:B:LEU:H	1:43:B:CYS:H	10	0.16
(1,702)	1:42:B:LEU:H	1:43:B:CYS:H	12	0.16
(1,702)	1:42:B:LEU:H	1:43:B:CYS:H	14	0.16
(1,702)	1:42:B:LEU:H	1:43:B:CYS:H	17	0.16
(1,674)	1:55:B:HIS:HD2	1:55:B:HIS:HB2	15	0.16
(1,670)	1:56:B:PHE:H	1:47:B:LEU:HD11	6	0.16
(1,670)	1:56:B:PHE:H	1:47:B:LEU:HD12	6	0.16
(1,670)	1:56:B:PHE:H	1:47:B:LEU:HD13	6	0.16
(1,670)	1:56:B:PHE:H	1:47:B:LEU:HD11	8	0.16
(1,670)	1:56:B:PHE:H	1:47:B:LEU:HD12	8	0.16
(1,670)	1:56:B:PHE:H	1:47:B:LEU:HD13	8	0.16
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD11	7	0.16
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD12	7	0.16
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD13	7	0.16
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD11	10	0.16
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD12	10	0.16
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD13	10	0.16
(1,643)	1:42:B:LEU:HD21	1:25:B:CYS:HA	6	0.16
(1,643)	1:42:B:LEU:HD22	1:25:B:CYS:HA	6	0.16
(1,643)	1:42:B:LEU:HD23	1:25:B:CYS:HA	6	0.16
(1,641)	1:38:B:VAL:HG11	1:37:B:GLU:HA	5	0.16
(1,641)	1:38:B:VAL:HG12	1:37:B:GLU:HA	5	0.16
(1,641)	1:38:B:VAL:HG13	1:37:B:GLU:HA	5	0.16
(1,641)	1:38:B:VAL:HG11	1:37:B:GLU:HA	7	0.16
(1,641)	1:38:B:VAL:HG12	1:37:B:GLU:HA	7	0.16
(1,641)	1:38:B:VAL:HG13	1:37:B:GLU:HA	7	0.16
(1,641)	1:38:B:VAL:HG11	1:37:B:GLU:HA	10	0.16
(1,641)	1:38:B:VAL:HG12	1:37:B:GLU:HA	10	0.16
(1,641)	1:38:B:VAL:HG13	1:37:B:GLU:HA	10	0.16
(1,641)	1:38:B:VAL:HG11	1:37:B:GLU:HA	13	0.16
(1,641)	1:38:B:VAL:HG12	1:37:B:GLU:HA	13	0.16
(1,641)	1:38:B:VAL:HG13	1:37:B:GLU:HA	13	0.16
(1,641)	1:38:B:VAL:HG11	1:37:B:GLU:HA	20	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,641)	1:38:B:VAL:HG12	1:37:B:GLU:HA	20	0.16
(1,641)	1:38:B:VAL:HG13	1:37:B:GLU:HA	20	0.16
(1,634)	1:35:B:SER:HB2	1:31:B:SER:HB2	16	0.16
(1,627)	1:39:B:SER:HA	1:46:B:ARG:HA	3	0.16
(1,627)	1:39:B:SER:HA	1:46:B:ARG:HA	20	0.16
(1,625)	1:42:B:LEU:HD11	1:25:B:CYS:HA	20	0.16
(1,625)	1:42:B:LEU:HD12	1:25:B:CYS:HA	20	0.16
(1,625)	1:42:B:LEU:HD13	1:25:B:CYS:HA	20	0.16
(1,608)	1:59:B:LYS:H	1:58:B:LEU:HB3	1	0.16
(1,608)	1:59:B:LYS:H	1:58:B:LEU:HB3	2	0.16
(1,608)	1:59:B:LYS:H	1:58:B:LEU:HB3	4	0.16
(1,608)	1:59:B:LYS:H	1:58:B:LEU:HB3	8	0.16
(1,608)	1:59:B:LYS:H	1:58:B:LEU:HB3	19	0.16
(1,602)	1:61:B:PHE:HB3	1:56:B:PHE:HD1	18	0.16
(1,602)	1:61:B:PHE:HB3	1:56:B:PHE:HD2	18	0.16
(1,575)	1:37:B:GLU:HA	1:48:B:PRO:HA	4	0.16
(1,575)	1:37:B:GLU:HA	1:48:B:PRO:HA	18	0.16
(1,571)	1:34:B:ALA:HA	1:36:B:TYR:HD1	3	0.16
(1,571)	1:34:B:ALA:HA	1:36:B:TYR:HD2	3	0.16
(1,571)	1:34:B:ALA:HA	1:36:B:TYR:HD1	6	0.16
(1,571)	1:34:B:ALA:HA	1:36:B:TYR:HD2	6	0.16
(1,571)	1:34:B:ALA:HA	1:36:B:TYR:HD1	19	0.16
(1,571)	1:34:B:ALA:HA	1:36:B:TYR:HD2	19	0.16
(1,566)	1:20:B:TYR:HE1	1:61:B:PHE:HA	5	0.16
(1,566)	1:20:B:TYR:HE2	1:61:B:PHE:HA	5	0.16
(1,530)	1:47:A:LEU:H	1:39:A:SER:HA	19	0.16
(1,503)	1:35:A:SER:H	1:36:A:TYR:H	4	0.16
(1,503)	1:35:A:SER:H	1:36:A:TYR:H	5	0.16
(1,503)	1:35:A:SER:H	1:36:A:TYR:H	9	0.16
(1,503)	1:35:A:SER:H	1:36:A:TYR:H	12	0.16
(1,503)	1:35:A:SER:H	1:36:A:TYR:H	13	0.16
(1,503)	1:35:A:SER:H	1:36:A:TYR:H	18	0.16
(1,497)	1:32:A:ALA:H	1:31:A:SER:HB3	3	0.16
(1,497)	1:32:A:ALA:H	1:31:A:SER:HB3	4	0.16
(1,497)	1:32:A:ALA:H	1:31:A:SER:HB3	11	0.16
(1,497)	1:32:A:ALA:H	1:31:A:SER:HB3	17	0.16
(1,491)	1:30:A:PHE:H	1:29:A:LEU:HB2	16	0.16
(1,465)	1:59:A:LYS:HE3	1:59:A:LYS:HG2	1	0.16
(1,465)	1:59:A:LYS:HE3	1:59:A:LYS:HG3	1	0.16
(1,452)	1:54:A:GLU:HB3	1:54:A:GLU:HG2	1	0.16
(1,452)	1:54:A:GLU:HB3	1:54:A:GLU:HG3	1	0.16
(1,452)	1:54:A:GLU:HB3	1:54:A:GLU:HG2	3	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,452)	1:54:A:GLU:HB3	1:54:A:GLU:HG3	3	0.16
(1,452)	1:54:A:GLU:HB3	1:54:A:GLU:HG2	7	0.16
(1,452)	1:54:A:GLU:HB3	1:54:A:GLU:HG3	7	0.16
(1,452)	1:54:A:GLU:HB3	1:54:A:GLU:HG2	8	0.16
(1,452)	1:54:A:GLU:HB3	1:54:A:GLU:HG3	8	0.16
(1,452)	1:54:A:GLU:HB3	1:54:A:GLU:HG2	10	0.16
(1,452)	1:54:A:GLU:HB3	1:54:A:GLU:HG3	10	0.16
(1,452)	1:54:A:GLU:HB3	1:54:A:GLU:HG2	13	0.16
(1,452)	1:54:A:GLU:HB3	1:54:A:GLU:HG3	13	0.16
(1,452)	1:54:A:GLU:HB3	1:54:A:GLU:HG2	17	0.16
(1,452)	1:54:A:GLU:HB3	1:54:A:GLU:HG3	17	0.16
(1,446)	1:49:A:LEU:HD21	1:36:A:TYR:HD1	1	0.16
(1,446)	1:49:A:LEU:HD21	1:36:A:TYR:HD2	1	0.16
(1,446)	1:49:A:LEU:HD22	1:36:A:TYR:HD1	1	0.16
(1,446)	1:49:A:LEU:HD22	1:36:A:TYR:HD2	1	0.16
(1,446)	1:49:A:LEU:HD23	1:36:A:TYR:HD1	1	0.16
(1,446)	1:49:A:LEU:HD23	1:36:A:TYR:HD2	1	0.16
(1,446)	1:49:A:LEU:HD21	1:36:A:TYR:HD1	5	0.16
(1,446)	1:49:A:LEU:HD21	1:36:A:TYR:HD2	5	0.16
(1,446)	1:49:A:LEU:HD22	1:36:A:TYR:HD1	5	0.16
(1,446)	1:49:A:LEU:HD22	1:36:A:TYR:HD2	5	0.16
(1,446)	1:49:A:LEU:HD23	1:36:A:TYR:HD1	5	0.16
(1,446)	1:49:A:LEU:HD23	1:36:A:TYR:HD2	5	0.16
(1,446)	1:49:A:LEU:HD21	1:36:A:TYR:HD1	18	0.16
(1,446)	1:49:A:LEU:HD21	1:36:A:TYR:HD2	18	0.16
(1,446)	1:49:A:LEU:HD22	1:36:A:TYR:HD1	18	0.16
(1,446)	1:49:A:LEU:HD22	1:36:A:TYR:HD2	18	0.16
(1,446)	1:49:A:LEU:HD23	1:36:A:TYR:HD1	18	0.16
(1,446)	1:49:A:LEU:HD23	1:36:A:TYR:HD2	18	0.16
(1,445)	1:49:A:LEU:HD11	1:49:A:LEU:HB3	12	0.16
(1,445)	1:49:A:LEU:HD12	1:49:A:LEU:HB3	12	0.16
(1,445)	1:49:A:LEU:HD13	1:49:A:LEU:HB3	12	0.16
(1,445)	1:49:A:LEU:HD11	1:49:A:LEU:HB3	14	0.16
(1,445)	1:49:A:LEU:HD12	1:49:A:LEU:HB3	14	0.16
(1,445)	1:49:A:LEU:HD13	1:49:A:LEU:HB3	14	0.16
(1,428)	1:25:A:CYS:HB2	1:42:A:LEU:HD11	16	0.16
(1,428)	1:25:A:CYS:HB2	1:42:A:LEU:HD12	16	0.16
(1,428)	1:25:A:CYS:HB2	1:42:A:LEU:HD13	16	0.16
(1,369)	1:27:A:GLU:H	1:26:A:GLY:HA3	16	0.16
(1,369)	1:27:A:GLU:H	1:26:A:GLY:HA3	17	0.16
(1,369)	1:27:A:GLU:H	1:26:A:GLY:HA3	19	0.16
(1,369)	1:27:A:GLU:H	1:26:A:GLY:HA3	20	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,361)	1:24:A:ARG:H	1:23:A:LEU:HB3	13	0.16
(1,361)	1:24:A:ARG:H	1:23:A:LEU:HB3	19	0.16
(1,361)	1:24:A:ARG:H	1:23:A:LEU:HB3	20	0.16
(1,344)	1:21:A:HIS:HD2	1:21:A:HIS:HB2	16	0.16
(1,334)	1:48:A:PRO:HD2	1:47:A:LEU:HA	3	0.16
(1,334)	1:48:A:PRO:HD2	1:47:A:LEU:HA	8	0.16
(1,334)	1:48:A:PRO:HD2	1:47:A:LEU:HA	13	0.16
(1,334)	1:48:A:PRO:HD2	1:47:A:LEU:HA	14	0.16
(1,328)	1:57:A:ARG:HG2	1:57:A:ARG:HA	3	0.16
(1,328)	1:57:A:ARG:HG2	1:57:A:ARG:HA	17	0.16
(1,319)	1:47:A:LEU:H	1:46:A:ARG:HG2	18	0.16
(1,319)	1:47:A:LEU:H	1:46:A:ARG:HG3	18	0.16
(1,315)	1:54:A:GLU:H	1:54:A:GLU:HG2	1	0.16
(1,315)	1:54:A:GLU:H	1:54:A:GLU:HG3	1	0.16
(1,315)	1:54:A:GLU:H	1:54:A:GLU:HG2	2	0.16
(1,315)	1:54:A:GLU:H	1:54:A:GLU:HG3	2	0.16
(1,315)	1:54:A:GLU:H	1:54:A:GLU:HG2	3	0.16
(1,315)	1:54:A:GLU:H	1:54:A:GLU:HG3	3	0.16
(1,315)	1:54:A:GLU:H	1:54:A:GLU:HG2	4	0.16
(1,315)	1:54:A:GLU:H	1:54:A:GLU:HG3	4	0.16
(1,315)	1:54:A:GLU:H	1:54:A:GLU:HG2	5	0.16
(1,315)	1:54:A:GLU:H	1:54:A:GLU:HG3	5	0.16
(1,315)	1:54:A:GLU:H	1:54:A:GLU:HG2	6	0.16
(1,315)	1:54:A:GLU:H	1:54:A:GLU:HG3	6	0.16
(1,315)	1:54:A:GLU:H	1:54:A:GLU:HG2	7	0.16
(1,315)	1:54:A:GLU:H	1:54:A:GLU:HG3	7	0.16
(1,315)	1:54:A:GLU:H	1:54:A:GLU:HG2	8	0.16
(1,315)	1:54:A:GLU:H	1:54:A:GLU:HG3	8	0.16
(1,315)	1:54:A:GLU:H	1:54:A:GLU:HG2	9	0.16
(1,315)	1:54:A:GLU:H	1:54:A:GLU:HG3	9	0.16
(1,315)	1:54:A:GLU:H	1:54:A:GLU:HG2	10	0.16
(1,315)	1:54:A:GLU:H	1:54:A:GLU:HG3	10	0.16
(1,315)	1:54:A:GLU:H	1:54:A:GLU:HG2	12	0.16
(1,315)	1:54:A:GLU:H	1:54:A:GLU:HG3	12	0.16
(1,315)	1:54:A:GLU:H	1:54:A:GLU:HG2	13	0.16
(1,315)	1:54:A:GLU:H	1:54:A:GLU:HG3	13	0.16
(1,315)	1:54:A:GLU:H	1:54:A:GLU:HG2	14	0.16
(1,315)	1:54:A:GLU:H	1:54:A:GLU:HG3	14	0.16
(1,315)	1:54:A:GLU:H	1:54:A:GLU:HG2	15	0.16
(1,315)	1:54:A:GLU:H	1:54:A:GLU:HG3	15	0.16
(1,315)	1:54:A:GLU:H	1:54:A:GLU:HG2	16	0.16
(1,315)	1:54:A:GLU:H	1:54:A:GLU:HG3	16	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,315)	1:54:A:GLU:H	1:54:A:GLU:HG2	17	0.16
(1,315)	1:54:A:GLU:H	1:54:A:GLU:HG3	17	0.16
(1,315)	1:54:A:GLU:H	1:54:A:GLU:HG2	18	0.16
(1,315)	1:54:A:GLU:H	1:54:A:GLU:HG3	18	0.16
(1,315)	1:54:A:GLU:H	1:54:A:GLU:HG2	19	0.16
(1,315)	1:54:A:GLU:H	1:54:A:GLU:HG3	19	0.16
(1,315)	1:54:A:GLU:H	1:54:A:GLU:HG2	20	0.16
(1,315)	1:54:A:GLU:H	1:54:A:GLU:HG3	20	0.16
(1,279)	1:37:A:GLU:H	1:37:A:GLU:HG2	13	0.16
(1,279)	1:37:A:GLU:H	1:37:A:GLU:HG3	13	0.16
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD11	2	0.16
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD12	2	0.16
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD13	2	0.16
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD11	9	0.16
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD12	9	0.16
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD13	9	0.16
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD11	11	0.16
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD12	11	0.16
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD13	11	0.16
(1,249)	1:42:A:LEU:HD11	1:56:A:PHE:HZ	18	0.16
(1,249)	1:42:A:LEU:HD12	1:56:A:PHE:HZ	18	0.16
(1,249)	1:42:A:LEU:HD13	1:56:A:PHE:HZ	18	0.16
(1,248)	1:56:A:PHE:HE1	1:61:A:PHE:HB3	2	0.16
(1,248)	1:56:A:PHE:HE2	1:61:A:PHE:HB3	2	0.16
(1,248)	1:56:A:PHE:HE1	1:61:A:PHE:HB3	16	0.16
(1,248)	1:56:A:PHE:HE2	1:61:A:PHE:HB3	16	0.16
(1,248)	1:56:A:PHE:HE1	1:61:A:PHE:HB3	18	0.16
(1,248)	1:56:A:PHE:HE2	1:61:A:PHE:HB3	18	0.16
(1,248)	1:56:A:PHE:HE1	1:61:A:PHE:HB3	19	0.16
(1,248)	1:56:A:PHE:HE2	1:61:A:PHE:HB3	19	0.16
(1,246)	1:40:A:CYS:HB3	1:52:A:TYR:HE1	19	0.16
(1,246)	1:40:A:CYS:HB3	1:52:A:TYR:HE2	19	0.16
(1,244)	1:60:A:HIS:H	1:57:A:ARG:HA	18	0.16
(1,243)	1:61:A:PHE:H	1:57:A:ARG:HA	7	0.16
(1,243)	1:61:A:PHE:H	1:57:A:ARG:HA	16	0.16
(1,241)	1:30:A:PHE:HZ	1:32:A:ALA:HA	7	0.16
(1,241)	1:30:A:PHE:HZ	1:32:A:ALA:HA	15	0.16
(1,240)	1:30:A:PHE:HE1	1:32:A:ALA:HA	5	0.16
(1,240)	1:30:A:PHE:HE2	1:32:A:ALA:HA	5	0.16
(1,240)	1:30:A:PHE:HE1	1:32:A:ALA:HA	19	0.16
(1,240)	1:30:A:PHE:HE2	1:32:A:ALA:HA	19	0.16
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD11	15	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD12	15	0.16
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD13	15	0.16
(1,227)	1:62:A:THR:H	1:61:A:PHE:HA	1	0.16
(1,221)	1:42:A:LEU:H	1:43:A:CYS:H	6	0.16
(1,221)	1:42:A:LEU:H	1:43:A:CYS:H	8	0.16
(1,221)	1:42:A:LEU:H	1:43:A:CYS:H	10	0.16
(1,221)	1:42:A:LEU:H	1:43:A:CYS:H	13	0.16
(1,221)	1:42:A:LEU:H	1:43:A:CYS:H	15	0.16
(1,197)	1:56:A:PHE:H	1:55:A:HIS:HB2	18	0.16
(1,189)	1:56:A:PHE:H	1:47:A:LEU:HD11	6	0.16
(1,189)	1:56:A:PHE:H	1:47:A:LEU:HD12	6	0.16
(1,189)	1:56:A:PHE:H	1:47:A:LEU:HD13	6	0.16
(1,182)	1:19:A:GLY:H	1:20:A:TYR:H	18	0.16
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD11	7	0.16
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD12	7	0.16
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD13	7	0.16
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD11	8	0.16
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD12	8	0.16
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD13	8	0.16
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD11	17	0.16
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD12	17	0.16
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD13	17	0.16
(1,177)	1:30:A:PHE:H	1:29:A:LEU:HB3	12	0.16
(1,162)	1:42:A:LEU:HD21	1:25:A:CYS:HA	15	0.16
(1,162)	1:42:A:LEU:HD22	1:25:A:CYS:HA	15	0.16
(1,162)	1:42:A:LEU:HD23	1:25:A:CYS:HA	15	0.16
(1,160)	1:38:A:VAL:HG11	1:37:A:GLU:HA	7	0.16
(1,160)	1:38:A:VAL:HG12	1:37:A:GLU:HA	7	0.16
(1,160)	1:38:A:VAL:HG13	1:37:A:GLU:HA	7	0.16
(1,160)	1:38:A:VAL:HG11	1:37:A:GLU:HA	8	0.16
(1,160)	1:38:A:VAL:HG12	1:37:A:GLU:HA	8	0.16
(1,160)	1:38:A:VAL:HG13	1:37:A:GLU:HA	8	0.16
(1,160)	1:38:A:VAL:HG11	1:37:A:GLU:HA	13	0.16
(1,160)	1:38:A:VAL:HG12	1:37:A:GLU:HA	13	0.16
(1,160)	1:38:A:VAL:HG13	1:37:A:GLU:HA	13	0.16
(1,160)	1:38:A:VAL:HG11	1:37:A:GLU:HA	15	0.16
(1,160)	1:38:A:VAL:HG12	1:37:A:GLU:HA	15	0.16
(1,160)	1:38:A:VAL:HG13	1:37:A:GLU:HA	15	0.16
(1,160)	1:38:A:VAL:HG11	1:37:A:GLU:HA	18	0.16
(1,160)	1:38:A:VAL:HG12	1:37:A:GLU:HA	18	0.16
(1,160)	1:38:A:VAL:HG13	1:37:A:GLU:HA	18	0.16
(1,160)	1:38:A:VAL:HG11	1:37:A:GLU:HA	20	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,160)	1:38:A:VAL:HG12	1:37:A:GLU:HA	20	0.16
(1,160)	1:38:A:VAL:HG13	1:37:A:GLU:HA	20	0.16
(1,144)	1:42:A:LEU:HD11	1:25:A:CYS:HA	1	0.16
(1,144)	1:42:A:LEU:HD12	1:25:A:CYS:HA	1	0.16
(1,144)	1:42:A:LEU:HD13	1:25:A:CYS:HA	1	0.16
(1,127)	1:59:A:LYS:H	1:58:A:LEU:HB3	7	0.16
(1,127)	1:59:A:LYS:H	1:58:A:LEU:HB3	11	0.16
(1,127)	1:59:A:LYS:H	1:58:A:LEU:HB3	15	0.16
(1,121)	1:61:A:PHE:HB3	1:56:A:PHE:HD1	4	0.16
(1,121)	1:61:A:PHE:HB3	1:56:A:PHE:HD2	4	0.16
(1,121)	1:61:A:PHE:HB3	1:56:A:PHE:HD1	9	0.16
(1,121)	1:61:A:PHE:HB3	1:56:A:PHE:HD2	9	0.16
(1,121)	1:61:A:PHE:HB3	1:56:A:PHE:HD1	14	0.16
(1,121)	1:61:A:PHE:HB3	1:56:A:PHE:HD2	14	0.16
(1,121)	1:61:A:PHE:HB3	1:56:A:PHE:HD1	20	0.16
(1,121)	1:61:A:PHE:HB3	1:56:A:PHE:HD2	20	0.16
(1,110)	1:56:A:PHE:HE1	1:25:A:CYS:HA	3	0.16
(1,110)	1:56:A:PHE:HE2	1:25:A:CYS:HA	3	0.16
(1,94)	1:37:A:GLU:HA	1:48:A:PRO:HA	8	0.16
(1,93)	1:49:A:LEU:HA	1:38:A:VAL:HB	3	0.16
(1,93)	1:49:A:LEU:HA	1:38:A:VAL:HB	10	0.16
(1,93)	1:49:A:LEU:HA	1:38:A:VAL:HB	18	0.16
(1,90)	1:34:A:ALA:HA	1:36:A:TYR:HD1	6	0.16
(1,90)	1:34:A:ALA:HA	1:36:A:TYR:HD2	6	0.16
(1,90)	1:34:A:ALA:HA	1:36:A:TYR:HD1	20	0.16
(1,90)	1:34:A:ALA:HA	1:36:A:TYR:HD2	20	0.16
(1,85)	1:20:A:TYR:HE1	1:61:A:PHE:HA	2	0.16
(1,85)	1:20:A:TYR:HE2	1:61:A:PHE:HA	2	0.16
(1,85)	1:20:A:TYR:HE1	1:61:A:PHE:HA	11	0.16
(1,85)	1:20:A:TYR:HE2	1:61:A:PHE:HA	11	0.16
(1,77)	1:36:A:TYR:HE1	1:56:B:PHE:H	5	0.16
(1,77)	1:36:A:TYR:HE2	1:56:B:PHE:H	5	0.16
(1,76)	1:22:B:ASN:H	1:32:A:ALA:H	8	0.16
(1,76)	1:22:B:ASN:H	1:32:A:ALA:H	9	0.16
(1,76)	1:22:B:ASN:H	1:32:A:ALA:H	11	0.16
(1,71)	1:32:A:ALA:H	1:20:B:TYR:HB3	6	0.16
(1,69)	1:32:A:ALA:H	1:20:B:TYR:HB2	6	0.16
(1,44)	1:29:A:LEU:HD11	1:25:B:CYS:H	1	0.16
(1,44)	1:29:A:LEU:HD12	1:25:B:CYS:H	1	0.16
(1,44)	1:29:A:LEU:HD13	1:25:B:CYS:H	1	0.16
(1,44)	1:29:A:LEU:HD21	1:25:B:CYS:H	1	0.16
(1,44)	1:29:A:LEU:HD22	1:25:B:CYS:H	1	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,44)	1:29:A:LEU:HD23	1:25:B:CYS:H	1	0.16
(1,44)	1:29:A:LEU:HD11	1:25:B:CYS:H	2	0.16
(1,44)	1:29:A:LEU:HD12	1:25:B:CYS:H	2	0.16
(1,44)	1:29:A:LEU:HD13	1:25:B:CYS:H	2	0.16
(1,44)	1:29:A:LEU:HD21	1:25:B:CYS:H	2	0.16
(1,44)	1:29:A:LEU:HD22	1:25:B:CYS:H	2	0.16
(1,44)	1:29:A:LEU:HD23	1:25:B:CYS:H	2	0.16
(1,44)	1:29:A:LEU:HD11	1:25:B:CYS:H	3	0.16
(1,44)	1:29:A:LEU:HD12	1:25:B:CYS:H	3	0.16
(1,44)	1:29:A:LEU:HD13	1:25:B:CYS:H	3	0.16
(1,44)	1:29:A:LEU:HD21	1:25:B:CYS:H	3	0.16
(1,44)	1:29:A:LEU:HD22	1:25:B:CYS:H	3	0.16
(1,44)	1:29:A:LEU:HD23	1:25:B:CYS:H	3	0.16
(1,44)	1:29:A:LEU:HD11	1:25:B:CYS:H	4	0.16
(1,44)	1:29:A:LEU:HD12	1:25:B:CYS:H	4	0.16
(1,44)	1:29:A:LEU:HD13	1:25:B:CYS:H	4	0.16
(1,44)	1:29:A:LEU:HD21	1:25:B:CYS:H	4	0.16
(1,44)	1:29:A:LEU:HD22	1:25:B:CYS:H	4	0.16
(1,44)	1:29:A:LEU:HD23	1:25:B:CYS:H	4	0.16
(1,44)	1:29:A:LEU:HD11	1:25:B:CYS:H	6	0.16
(1,44)	1:29:A:LEU:HD12	1:25:B:CYS:H	6	0.16
(1,44)	1:29:A:LEU:HD13	1:25:B:CYS:H	6	0.16
(1,44)	1:29:A:LEU:HD21	1:25:B:CYS:H	6	0.16
(1,44)	1:29:A:LEU:HD22	1:25:B:CYS:H	6	0.16
(1,44)	1:29:A:LEU:HD23	1:25:B:CYS:H	6	0.16
(1,44)	1:29:A:LEU:HD11	1:25:B:CYS:H	8	0.16
(1,44)	1:29:A:LEU:HD12	1:25:B:CYS:H	8	0.16
(1,44)	1:29:A:LEU:HD13	1:25:B:CYS:H	8	0.16
(1,44)	1:29:A:LEU:HD21	1:25:B:CYS:H	8	0.16
(1,44)	1:29:A:LEU:HD22	1:25:B:CYS:H	8	0.16
(1,44)	1:29:A:LEU:HD23	1:25:B:CYS:H	8	0.16
(1,44)	1:29:A:LEU:HD11	1:25:B:CYS:H	9	0.16
(1,44)	1:29:A:LEU:HD12	1:25:B:CYS:H	9	0.16
(1,44)	1:29:A:LEU:HD13	1:25:B:CYS:H	9	0.16
(1,44)	1:29:A:LEU:HD21	1:25:B:CYS:H	9	0.16
(1,44)	1:29:A:LEU:HD22	1:25:B:CYS:H	9	0.16
(1,44)	1:29:A:LEU:HD23	1:25:B:CYS:H	9	0.16
(1,44)	1:29:A:LEU:HD11	1:25:B:CYS:H	10	0.16
(1,44)	1:29:A:LEU:HD12	1:25:B:CYS:H	10	0.16
(1,44)	1:29:A:LEU:HD13	1:25:B:CYS:H	10	0.16
(1,44)	1:29:A:LEU:HD21	1:25:B:CYS:H	10	0.16
(1,44)	1:29:A:LEU:HD22	1:25:B:CYS:H	10	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,44)	1:29:A:LEU:HD23	1:25:B:CYS:H	10	0.16
(1,44)	1:29:A:LEU:HD11	1:25:B:CYS:H	14	0.16
(1,44)	1:29:A:LEU:HD12	1:25:B:CYS:H	14	0.16
(1,44)	1:29:A:LEU:HD13	1:25:B:CYS:H	14	0.16
(1,44)	1:29:A:LEU:HD21	1:25:B:CYS:H	14	0.16
(1,44)	1:29:A:LEU:HD22	1:25:B:CYS:H	14	0.16
(1,44)	1:29:A:LEU:HD23	1:25:B:CYS:H	14	0.16
(1,44)	1:29:A:LEU:HD11	1:25:B:CYS:H	17	0.16
(1,44)	1:29:A:LEU:HD12	1:25:B:CYS:H	17	0.16
(1,44)	1:29:A:LEU:HD13	1:25:B:CYS:H	17	0.16
(1,44)	1:29:A:LEU:HD21	1:25:B:CYS:H	17	0.16
(1,44)	1:29:A:LEU:HD22	1:25:B:CYS:H	17	0.16
(1,44)	1:29:A:LEU:HD23	1:25:B:CYS:H	17	0.16
(1,43)	1:29:B:LEU:HD11	1:25:A:CYS:H	4	0.16
(1,43)	1:29:B:LEU:HD12	1:25:A:CYS:H	4	0.16
(1,43)	1:29:B:LEU:HD13	1:25:A:CYS:H	4	0.16
(1,43)	1:29:B:LEU:HD21	1:25:A:CYS:H	4	0.16
(1,43)	1:29:B:LEU:HD22	1:25:A:CYS:H	4	0.16
(1,43)	1:29:B:LEU:HD23	1:25:A:CYS:H	4	0.16
(1,43)	1:29:B:LEU:HD11	1:25:A:CYS:H	5	0.16
(1,43)	1:29:B:LEU:HD12	1:25:A:CYS:H	5	0.16
(1,43)	1:29:B:LEU:HD13	1:25:A:CYS:H	5	0.16
(1,43)	1:29:B:LEU:HD21	1:25:A:CYS:H	5	0.16
(1,43)	1:29:B:LEU:HD22	1:25:A:CYS:H	5	0.16
(1,43)	1:29:B:LEU:HD23	1:25:A:CYS:H	5	0.16
(1,43)	1:29:B:LEU:HD11	1:25:A:CYS:H	12	0.16
(1,43)	1:29:B:LEU:HD12	1:25:A:CYS:H	12	0.16
(1,43)	1:29:B:LEU:HD13	1:25:A:CYS:H	12	0.16
(1,43)	1:29:B:LEU:HD21	1:25:A:CYS:H	12	0.16
(1,43)	1:29:B:LEU:HD22	1:25:A:CYS:H	12	0.16
(1,43)	1:29:B:LEU:HD23	1:25:A:CYS:H	12	0.16
(1,42)	1:22:B:ASN:HB2	1:29:A:LEU:HD21	7	0.16
(1,42)	1:22:B:ASN:HB2	1:29:A:LEU:HD22	7	0.16
(1,42)	1:22:B:ASN:HB2	1:29:A:LEU:HD23	7	0.16
(1,33)	1:36:A:TYR:HE1	1:56:B:PHE:HD1	1	0.16
(1,33)	1:36:A:TYR:HE1	1:56:B:PHE:HD2	1	0.16
(1,33)	1:36:A:TYR:HE2	1:56:B:PHE:HD1	1	0.16
(1,33)	1:36:A:TYR:HE2	1:56:B:PHE:HD2	1	0.16
(1,33)	1:36:A:TYR:HE1	1:56:B:PHE:HD1	17	0.16
(1,33)	1:36:A:TYR:HE1	1:56:B:PHE:HD2	17	0.16
(1,33)	1:36:A:TYR:HE2	1:56:B:PHE:HD1	17	0.16
(1,33)	1:36:A:TYR:HE2	1:56:B:PHE:HD2	17	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,24)	1:30:B:PHE:HE1	1:61:A:PHE:HZ	6	0.16
(1,24)	1:30:B:PHE:HE2	1:61:A:PHE:HZ	6	0.16
(1,22)	1:30:B:PHE:HD1	1:23:A:LEU:HG	4	0.16
(1,22)	1:30:B:PHE:HD2	1:23:A:LEU:HG	4	0.16
(1,22)	1:30:B:PHE:HD1	1:23:A:LEU:HG	8	0.16
(1,22)	1:30:B:PHE:HD2	1:23:A:LEU:HG	8	0.16
(1,21)	1:30:A:PHE:HD1	1:23:B:LEU:HG	14	0.16
(1,21)	1:30:A:PHE:HD2	1:23:B:LEU:HG	14	0.16
(1,21)	1:30:A:PHE:HD1	1:23:B:LEU:HG	18	0.16
(1,21)	1:30:A:PHE:HD2	1:23:B:LEU:HG	18	0.16
(1,4)	1:49:B:LEU:HD11	1:50:A:ASP:HA	10	0.16
(1,4)	1:49:B:LEU:HD12	1:50:A:ASP:HA	10	0.16
(1,4)	1:49:B:LEU:HD13	1:50:A:ASP:HA	10	0.16
(1,4)	1:49:B:LEU:HD11	1:50:A:ASP:HA	13	0.16
(1,4)	1:49:B:LEU:HD12	1:50:A:ASP:HA	13	0.16
(1,4)	1:49:B:LEU:HD13	1:50:A:ASP:HA	13	0.16
(1,4)	1:49:B:LEU:HD11	1:50:A:ASP:HA	18	0.16
(1,4)	1:49:B:LEU:HD12	1:50:A:ASP:HA	18	0.16
(1,4)	1:49:B:LEU:HD13	1:50:A:ASP:HA	18	0.16
(1,3)	1:49:A:LEU:HD11	1:50:B:ASP:HA	11	0.16
(1,3)	1:49:A:LEU:HD12	1:50:B:ASP:HA	11	0.16
(1,3)	1:49:A:LEU:HD13	1:50:B:ASP:HA	11	0.16
(2,5)	1:43:B:CYS:SG	2:101:B:ZN:ZN	11	0.15
(2,1)	1:43:A:CYS:SG	2:101:A:ZN:ZN	18	0.15
(1,984)	1:35:B:SER:H	1:36:B:TYR:H	5	0.15
(1,984)	1:35:B:SER:H	1:36:B:TYR:H	6	0.15
(1,984)	1:35:B:SER:H	1:36:B:TYR:H	7	0.15
(1,984)	1:35:B:SER:H	1:36:B:TYR:H	8	0.15
(1,984)	1:35:B:SER:H	1:36:B:TYR:H	9	0.15
(1,984)	1:35:B:SER:H	1:36:B:TYR:H	12	0.15
(1,984)	1:35:B:SER:H	1:36:B:TYR:H	13	0.15
(1,984)	1:35:B:SER:H	1:36:B:TYR:H	14	0.15
(1,984)	1:35:B:SER:H	1:36:B:TYR:H	17	0.15
(1,978)	1:32:B:ALA:H	1:31:B:SER:HB3	9	0.15
(1,978)	1:32:B:ALA:H	1:31:B:SER:HB3	13	0.15
(1,978)	1:32:B:ALA:H	1:31:B:SER:HB3	14	0.15
(1,972)	1:30:B:PHE:H	1:29:B:LEU:HB2	3	0.15
(1,972)	1:30:B:PHE:H	1:29:B:LEU:HB2	5	0.15
(1,972)	1:30:B:PHE:H	1:29:B:LEU:HB2	7	0.15
(1,972)	1:30:B:PHE:H	1:29:B:LEU:HB2	9	0.15
(1,972)	1:30:B:PHE:H	1:29:B:LEU:HB2	14	0.15
(1,972)	1:30:B:PHE:H	1:29:B:LEU:HB2	17	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,972)	1:30:B:PHE:H	1:29:B:LEU:HB2	19	0.15
(1,972)	1:30:B:PHE:H	1:29:B:LEU:HB2	20	0.15
(1,969)	1:28:B:VAL:H	1:27:B:GLU:HG2	6	0.15
(1,969)	1:28:B:VAL:H	1:27:B:GLU:HG3	6	0.15
(1,946)	1:59:B:LYS:HE3	1:59:B:LYS:HG2	1	0.15
(1,946)	1:59:B:LYS:HE3	1:59:B:LYS:HG3	1	0.15
(1,946)	1:59:B:LYS:HE3	1:59:B:LYS:HG2	6	0.15
(1,946)	1:59:B:LYS:HE3	1:59:B:LYS:HG3	6	0.15
(1,946)	1:59:B:LYS:HE3	1:59:B:LYS:HG2	10	0.15
(1,946)	1:59:B:LYS:HE3	1:59:B:LYS:HG3	10	0.15
(1,946)	1:59:B:LYS:HE3	1:59:B:LYS:HG2	14	0.15
(1,946)	1:59:B:LYS:HE3	1:59:B:LYS:HG3	14	0.15
(1,946)	1:59:B:LYS:HE3	1:59:B:LYS:HG2	17	0.15
(1,946)	1:59:B:LYS:HE3	1:59:B:LYS:HG3	17	0.15
(1,944)	1:59:B:LYS:HB3	1:59:B:LYS:HG2	5	0.15
(1,944)	1:59:B:LYS:HB3	1:59:B:LYS:HG3	5	0.15
(1,944)	1:59:B:LYS:HB3	1:59:B:LYS:HG2	13	0.15
(1,944)	1:59:B:LYS:HB3	1:59:B:LYS:HG3	13	0.15
(1,944)	1:59:B:LYS:HB3	1:59:B:LYS:HG2	20	0.15
(1,944)	1:59:B:LYS:HB3	1:59:B:LYS:HG3	20	0.15
(1,933)	1:54:B:GLU:HB3	1:54:B:GLU:HG2	2	0.15
(1,933)	1:54:B:GLU:HB3	1:54:B:GLU:HG3	2	0.15
(1,933)	1:54:B:GLU:HB3	1:54:B:GLU:HG2	4	0.15
(1,933)	1:54:B:GLU:HB3	1:54:B:GLU:HG3	4	0.15
(1,933)	1:54:B:GLU:HB3	1:54:B:GLU:HG2	5	0.15
(1,933)	1:54:B:GLU:HB3	1:54:B:GLU:HG3	5	0.15
(1,933)	1:54:B:GLU:HB3	1:54:B:GLU:HG2	7	0.15
(1,933)	1:54:B:GLU:HB3	1:54:B:GLU:HG3	7	0.15
(1,933)	1:54:B:GLU:HB3	1:54:B:GLU:HG2	9	0.15
(1,933)	1:54:B:GLU:HB3	1:54:B:GLU:HG3	9	0.15
(1,933)	1:54:B:GLU:HB3	1:54:B:GLU:HG2	11	0.15
(1,933)	1:54:B:GLU:HB3	1:54:B:GLU:HG3	11	0.15
(1,933)	1:54:B:GLU:HB3	1:54:B:GLU:HG2	14	0.15
(1,933)	1:54:B:GLU:HB3	1:54:B:GLU:HG3	14	0.15
(1,933)	1:54:B:GLU:HB3	1:54:B:GLU:HG2	20	0.15
(1,933)	1:54:B:GLU:HB3	1:54:B:GLU:HG3	20	0.15
(1,932)	1:52:B:TYR:HA	1:55:B:HIS:HB2	11	0.15
(1,927)	1:49:B:LEU:HD21	1:36:B:TYR:HD1	2	0.15
(1,927)	1:49:B:LEU:HD21	1:36:B:TYR:HD2	2	0.15
(1,927)	1:49:B:LEU:HD22	1:36:B:TYR:HD1	2	0.15
(1,927)	1:49:B:LEU:HD22	1:36:B:TYR:HD2	2	0.15
(1,927)	1:49:B:LEU:HD23	1:36:B:TYR:HD1	2	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,927)	1:49:B:LEU:HD23	1:36:B:TYR:HD2	2	0.15
(1,909)	1:25:B:CYS:HB2	1:42:B:LEU:HD11	11	0.15
(1,909)	1:25:B:CYS:HB2	1:42:B:LEU:HD12	11	0.15
(1,909)	1:25:B:CYS:HB2	1:42:B:LEU:HD13	11	0.15
(1,850)	1:27:B:GLU:H	1:26:B:GLY:HA3	6	0.15
(1,842)	1:24:B:ARG:H	1:23:B:LEU:HB3	5	0.15
(1,820)	1:27:B:GLU:HG2	1:41:B:LEU:HD21	10	0.15
(1,820)	1:27:B:GLU:HG2	1:41:B:LEU:HD22	10	0.15
(1,820)	1:27:B:GLU:HG2	1:41:B:LEU:HD23	10	0.15
(1,820)	1:27:B:GLU:HG3	1:41:B:LEU:HD21	10	0.15
(1,820)	1:27:B:GLU:HG3	1:41:B:LEU:HD22	10	0.15
(1,820)	1:27:B:GLU:HG3	1:41:B:LEU:HD23	10	0.15
(1,815)	1:48:B:PRO:HD2	1:47:B:LEU:HA	3	0.15
(1,815)	1:48:B:PRO:HD2	1:47:B:LEU:HA	13	0.15
(1,815)	1:48:B:PRO:HD2	1:47:B:LEU:HA	17	0.15
(1,815)	1:48:B:PRO:HD2	1:47:B:LEU:HA	20	0.15
(1,809)	1:57:B:ARG:HG2	1:57:B:ARG:HA	6	0.15
(1,809)	1:57:B:ARG:HG2	1:57:B:ARG:HA	18	0.15
(1,806)	1:41:B:LEU:HB2	1:25:B:CYS:HA	1	0.15
(1,775)	1:45:B:GLN:H	1:40:B:CYS:HB2	20	0.15
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD11	1	0.15
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD12	1	0.15
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD13	1	0.15
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD11	5	0.15
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD12	5	0.15
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD13	5	0.15
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD11	7	0.15
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD12	7	0.15
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD13	7	0.15
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD11	8	0.15
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD12	8	0.15
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD13	8	0.15
(1,730)	1:42:B:LEU:HD11	1:56:B:PHE:HZ	7	0.15
(1,730)	1:42:B:LEU:HD12	1:56:B:PHE:HZ	7	0.15
(1,730)	1:42:B:LEU:HD13	1:56:B:PHE:HZ	7	0.15
(1,730)	1:42:B:LEU:HD11	1:56:B:PHE:HZ	14	0.15
(1,730)	1:42:B:LEU:HD12	1:56:B:PHE:HZ	14	0.15
(1,730)	1:42:B:LEU:HD13	1:56:B:PHE:HZ	14	0.15
(1,727)	1:40:B:CYS:HB3	1:52:B:TYR:HE1	2	0.15
(1,727)	1:40:B:CYS:HB3	1:52:B:TYR:HE2	2	0.15
(1,727)	1:40:B:CYS:HB3	1:52:B:TYR:HE1	18	0.15
(1,727)	1:40:B:CYS:HB3	1:52:B:TYR:HE2	18	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,724)	1:61:B:PHE:H	1:57:B:ARG:HA	20	0.15
(1,722)	1:30:B:PHE:HZ	1:32:B:ALA:HA	12	0.15
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD11	5	0.15
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD12	5	0.15
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD13	5	0.15
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD11	16	0.15
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD12	16	0.15
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD13	16	0.15
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD11	19	0.15
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD12	19	0.15
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD13	19	0.15
(1,702)	1:42:B:LEU:H	1:43:B:CYS:H	9	0.15
(1,702)	1:42:B:LEU:H	1:43:B:CYS:H	11	0.15
(1,702)	1:42:B:LEU:H	1:43:B:CYS:H	19	0.15
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD11	8	0.15
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD12	8	0.15
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD13	8	0.15
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD11	14	0.15
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD12	14	0.15
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD13	14	0.15
(1,645)	1:59:B:LYS:HD2	1:59:B:LYS:HA	4	0.15
(1,645)	1:59:B:LYS:HD3	1:59:B:LYS:HA	4	0.15
(1,643)	1:42:B:LEU:HD21	1:25:B:CYS:HA	19	0.15
(1,643)	1:42:B:LEU:HD22	1:25:B:CYS:HA	19	0.15
(1,643)	1:42:B:LEU:HD23	1:25:B:CYS:HA	19	0.15
(1,634)	1:35:B:SER:HB2	1:31:B:SER:HB2	11	0.15
(1,634)	1:35:B:SER:HB2	1:31:B:SER:HB2	12	0.15
(1,608)	1:59:B:LYS:H	1:58:B:LEU:HB3	9	0.15
(1,602)	1:61:B:PHE:HB3	1:56:B:PHE:HD1	20	0.15
(1,602)	1:61:B:PHE:HB3	1:56:B:PHE:HD2	20	0.15
(1,599)	1:61:B:PHE:HB3	1:57:B:ARG:HA	1	0.15
(1,599)	1:61:B:PHE:HB3	1:57:B:ARG:HA	6	0.15
(1,575)	1:37:B:GLU:HA	1:48:B:PRO:HA	17	0.15
(1,574)	1:49:B:LEU:HA	1:38:B:VAL:HB	3	0.15
(1,574)	1:49:B:LEU:HA	1:38:B:VAL:HB	19	0.15
(1,571)	1:34:B:ALA:HA	1:36:B:TYR:HD1	9	0.15
(1,571)	1:34:B:ALA:HA	1:36:B:TYR:HD2	9	0.15
(1,530)	1:47:A:LEU:H	1:39:A:SER:HA	3	0.15
(1,530)	1:47:A:LEU:H	1:39:A:SER:HA	12	0.15
(1,530)	1:47:A:LEU:H	1:39:A:SER:HA	14	0.15
(1,503)	1:35:A:SER:H	1:36:A:TYR:H	2	0.15
(1,503)	1:35:A:SER:H	1:36:A:TYR:H	6	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,503)	1:35:A:SER:H	1:36:A:TYR:H	10	0.15
(1,503)	1:35:A:SER:H	1:36:A:TYR:H	11	0.15
(1,503)	1:35:A:SER:H	1:36:A:TYR:H	15	0.15
(1,503)	1:35:A:SER:H	1:36:A:TYR:H	16	0.15
(1,503)	1:35:A:SER:H	1:36:A:TYR:H	19	0.15
(1,503)	1:35:A:SER:H	1:36:A:TYR:H	20	0.15
(1,497)	1:32:A:ALA:H	1:31:A:SER:HB3	8	0.15
(1,497)	1:32:A:ALA:H	1:31:A:SER:HB3	9	0.15
(1,497)	1:32:A:ALA:H	1:31:A:SER:HB3	15	0.15
(1,497)	1:32:A:ALA:H	1:31:A:SER:HB3	18	0.15
(1,491)	1:30:A:PHE:H	1:29:A:LEU:HB2	3	0.15
(1,491)	1:30:A:PHE:H	1:29:A:LEU:HB2	5	0.15
(1,491)	1:30:A:PHE:H	1:29:A:LEU:HB2	6	0.15
(1,491)	1:30:A:PHE:H	1:29:A:LEU:HB2	9	0.15
(1,491)	1:30:A:PHE:H	1:29:A:LEU:HB2	10	0.15
(1,491)	1:30:A:PHE:H	1:29:A:LEU:HB2	13	0.15
(1,491)	1:30:A:PHE:H	1:29:A:LEU:HB2	14	0.15
(1,491)	1:30:A:PHE:H	1:29:A:LEU:HB2	15	0.15
(1,491)	1:30:A:PHE:H	1:29:A:LEU:HB2	18	0.15
(1,491)	1:30:A:PHE:H	1:29:A:LEU:HB2	19	0.15
(1,465)	1:59:A:LYS:HE3	1:59:A:LYS:HG2	8	0.15
(1,465)	1:59:A:LYS:HE3	1:59:A:LYS:HG3	8	0.15
(1,465)	1:59:A:LYS:HE3	1:59:A:LYS:HG2	9	0.15
(1,465)	1:59:A:LYS:HE3	1:59:A:LYS:HG3	9	0.15
(1,465)	1:59:A:LYS:HE3	1:59:A:LYS:HG2	13	0.15
(1,465)	1:59:A:LYS:HE3	1:59:A:LYS:HG3	13	0.15
(1,465)	1:59:A:LYS:HE3	1:59:A:LYS:HG2	15	0.15
(1,465)	1:59:A:LYS:HE3	1:59:A:LYS:HG3	15	0.15
(1,465)	1:59:A:LYS:HE3	1:59:A:LYS:HG2	16	0.15
(1,465)	1:59:A:LYS:HE3	1:59:A:LYS:HG3	16	0.15
(1,465)	1:59:A:LYS:HE3	1:59:A:LYS:HG2	20	0.15
(1,465)	1:59:A:LYS:HE3	1:59:A:LYS:HG3	20	0.15
(1,463)	1:59:A:LYS:HB3	1:59:A:LYS:HG2	3	0.15
(1,463)	1:59:A:LYS:HB3	1:59:A:LYS:HG3	3	0.15
(1,463)	1:59:A:LYS:HB3	1:59:A:LYS:HG2	5	0.15
(1,463)	1:59:A:LYS:HB3	1:59:A:LYS:HG3	5	0.15
(1,463)	1:59:A:LYS:HB3	1:59:A:LYS:HG2	14	0.15
(1,463)	1:59:A:LYS:HB3	1:59:A:LYS:HG3	14	0.15
(1,452)	1:54:A:GLU:HB3	1:54:A:GLU:HG2	2	0.15
(1,452)	1:54:A:GLU:HB3	1:54:A:GLU:HG3	2	0.15
(1,452)	1:54:A:GLU:HB3	1:54:A:GLU:HG2	6	0.15
(1,452)	1:54:A:GLU:HB3	1:54:A:GLU:HG3	6	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,452)	1:54:A:GLU:HB3	1:54:A:GLU:HG2	12	0.15
(1,452)	1:54:A:GLU:HB3	1:54:A:GLU:HG3	12	0.15
(1,452)	1:54:A:GLU:HB3	1:54:A:GLU:HG2	16	0.15
(1,452)	1:54:A:GLU:HB3	1:54:A:GLU:HG3	16	0.15
(1,452)	1:54:A:GLU:HB3	1:54:A:GLU:HG2	19	0.15
(1,452)	1:54:A:GLU:HB3	1:54:A:GLU:HG3	19	0.15
(1,452)	1:54:A:GLU:HB3	1:54:A:GLU:HG2	20	0.15
(1,452)	1:54:A:GLU:HB3	1:54:A:GLU:HG3	20	0.15
(1,446)	1:49:A:LEU:HD21	1:36:A:TYR:HD1	6	0.15
(1,446)	1:49:A:LEU:HD21	1:36:A:TYR:HD2	6	0.15
(1,446)	1:49:A:LEU:HD22	1:36:A:TYR:HD1	6	0.15
(1,446)	1:49:A:LEU:HD22	1:36:A:TYR:HD2	6	0.15
(1,446)	1:49:A:LEU:HD23	1:36:A:TYR:HD1	6	0.15
(1,446)	1:49:A:LEU:HD23	1:36:A:TYR:HD2	6	0.15
(1,432)	1:45:A:GLN:HB2	1:46:A:ARG:H	15	0.15
(1,432)	1:45:A:GLN:HB3	1:46:A:ARG:H	15	0.15
(1,432)	1:45:A:GLN:HB2	1:46:A:ARG:H	18	0.15
(1,432)	1:45:A:GLN:HB3	1:46:A:ARG:H	18	0.15
(1,369)	1:27:A:GLU:H	1:26:A:GLY:HA3	11	0.15
(1,369)	1:27:A:GLU:H	1:26:A:GLY:HA3	12	0.15
(1,361)	1:24:A:ARG:H	1:23:A:LEU:HB3	5	0.15
(1,361)	1:24:A:ARG:H	1:23:A:LEU:HB3	12	0.15
(1,334)	1:48:A:PRO:HD2	1:47:A:LEU:HA	7	0.15
(1,334)	1:48:A:PRO:HD2	1:47:A:LEU:HA	11	0.15
(1,334)	1:48:A:PRO:HD2	1:47:A:LEU:HA	12	0.15
(1,334)	1:48:A:PRO:HD2	1:47:A:LEU:HA	19	0.15
(1,334)	1:48:A:PRO:HD2	1:47:A:LEU:HA	20	0.15
(1,328)	1:57:A:ARG:HG2	1:57:A:ARG:HA	11	0.15
(1,328)	1:57:A:ARG:HG2	1:57:A:ARG:HA	12	0.15
(1,325)	1:41:A:LEU:HB2	1:25:A:CYS:HA	18	0.15
(1,319)	1:47:A:LEU:H	1:46:A:ARG:HG2	19	0.15
(1,319)	1:47:A:LEU:H	1:46:A:ARG:HG3	19	0.15
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD21	12	0.15
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD22	12	0.15
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD23	12	0.15
(1,294)	1:45:A:GLN:H	1:40:A:CYS:HB2	7	0.15
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD11	6	0.15
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD12	6	0.15
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD13	6	0.15
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD11	8	0.15
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD12	8	0.15
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD13	8	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD11	10	0.15
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD12	10	0.15
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD13	10	0.15
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD11	13	0.15
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD12	13	0.15
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD13	13	0.15
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD11	16	0.15
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD12	16	0.15
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD13	16	0.15
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD11	18	0.15
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD12	18	0.15
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD13	18	0.15
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD11	19	0.15
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD12	19	0.15
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD13	19	0.15
(1,248)	1:56:A:PHE:HE1	1:61:A:PHE:HB3	10	0.15
(1,248)	1:56:A:PHE:HE2	1:61:A:PHE:HB3	10	0.15
(1,243)	1:61:A:PHE:H	1:57:A:ARG:HA	14	0.15
(1,243)	1:61:A:PHE:H	1:57:A:ARG:HA	19	0.15
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD11	2	0.15
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD12	2	0.15
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD13	2	0.15
(1,227)	1:62:A:THR:H	1:61:A:PHE:HA	2	0.15
(1,221)	1:42:A:LEU:H	1:43:A:CYS:H	18	0.15
(1,182)	1:19:A:GLY:H	1:20:A:TYR:H	14	0.15
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD11	10	0.15
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD12	10	0.15
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD13	10	0.15
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD11	13	0.15
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD12	13	0.15
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD13	13	0.15
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD11	19	0.15
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD12	19	0.15
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD13	19	0.15
(1,162)	1:42:A:LEU:HD21	1:25:A:CYS:HA	10	0.15
(1,162)	1:42:A:LEU:HD22	1:25:A:CYS:HA	10	0.15
(1,162)	1:42:A:LEU:HD23	1:25:A:CYS:HA	10	0.15
(1,162)	1:42:A:LEU:HD21	1:25:A:CYS:HA	18	0.15
(1,162)	1:42:A:LEU:HD22	1:25:A:CYS:HA	18	0.15
(1,162)	1:42:A:LEU:HD23	1:25:A:CYS:HA	18	0.15
(1,153)	1:35:A:SER:HB2	1:31:A:SER:HB2	15	0.15
(1,146)	1:39:A:SER:HA	1:46:A:ARG:HA	7	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,146)	1:39:A:SER:HA	1:46:A:ARG:HA	9	0.15
(1,127)	1:59:A:LYS:H	1:58:A:LEU:HB3	12	0.15
(1,127)	1:59:A:LYS:H	1:58:A:LEU:HB3	18	0.15
(1,127)	1:59:A:LYS:H	1:58:A:LEU:HB3	20	0.15
(1,121)	1:61:A:PHE:HB3	1:56:A:PHE:HD1	18	0.15
(1,121)	1:61:A:PHE:HB3	1:56:A:PHE:HD2	18	0.15
(1,121)	1:61:A:PHE:HB3	1:56:A:PHE:HD1	19	0.15
(1,121)	1:61:A:PHE:HB3	1:56:A:PHE:HD2	19	0.15
(1,110)	1:56:A:PHE:HE1	1:25:A:CYS:HA	6	0.15
(1,110)	1:56:A:PHE:HE2	1:25:A:CYS:HA	6	0.15
(1,94)	1:37:A:GLU:HA	1:48:A:PRO:HA	3	0.15
(1,94)	1:37:A:GLU:HA	1:48:A:PRO:HA	11	0.15
(1,90)	1:34:A:ALA:HA	1:36:A:TYR:HD1	4	0.15
(1,90)	1:34:A:ALA:HA	1:36:A:TYR:HD2	4	0.15
(1,85)	1:20:A:TYR:HE1	1:61:A:PHE:HA	15	0.15
(1,85)	1:20:A:TYR:HE2	1:61:A:PHE:HA	15	0.15
(1,78)	1:36:B:TYR:HE1	1:56:A:PHE:H	2	0.15
(1,78)	1:36:B:TYR:HE2	1:56:A:PHE:H	2	0.15
(1,78)	1:36:B:TYR:HE1	1:56:A:PHE:H	3	0.15
(1,78)	1:36:B:TYR:HE2	1:56:A:PHE:H	3	0.15
(1,78)	1:36:B:TYR:HE1	1:56:A:PHE:H	16	0.15
(1,78)	1:36:B:TYR:HE2	1:56:A:PHE:H	16	0.15
(1,75)	1:22:A:ASN:H	1:32:B:ALA:H	5	0.15
(1,72)	1:32:B:ALA:H	1:20:A:TYR:HB3	9	0.15
(1,70)	1:32:B:ALA:H	1:20:A:TYR:HB2	15	0.15
(1,58)	1:26:B:GLY:H	1:28:A:VAL:H	6	0.15
(1,44)	1:29:A:LEU:HD11	1:25:B:CYS:H	7	0.15
(1,44)	1:29:A:LEU:HD12	1:25:B:CYS:H	7	0.15
(1,44)	1:29:A:LEU:HD13	1:25:B:CYS:H	7	0.15
(1,44)	1:29:A:LEU:HD21	1:25:B:CYS:H	7	0.15
(1,44)	1:29:A:LEU:HD22	1:25:B:CYS:H	7	0.15
(1,44)	1:29:A:LEU:HD23	1:25:B:CYS:H	7	0.15
(1,44)	1:29:A:LEU:HD11	1:25:B:CYS:H	11	0.15
(1,44)	1:29:A:LEU:HD12	1:25:B:CYS:H	11	0.15
(1,44)	1:29:A:LEU:HD13	1:25:B:CYS:H	11	0.15
(1,44)	1:29:A:LEU:HD21	1:25:B:CYS:H	11	0.15
(1,44)	1:29:A:LEU:HD22	1:25:B:CYS:H	11	0.15
(1,44)	1:29:A:LEU:HD23	1:25:B:CYS:H	11	0.15
(1,44)	1:29:A:LEU:HD11	1:25:B:CYS:H	12	0.15
(1,44)	1:29:A:LEU:HD12	1:25:B:CYS:H	12	0.15
(1,44)	1:29:A:LEU:HD13	1:25:B:CYS:H	12	0.15
(1,44)	1:29:A:LEU:HD21	1:25:B:CYS:H	12	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,44)	1:29:A:LEU:HD22	1:25:B:CYS:H	12	0.15
(1,44)	1:29:A:LEU:HD23	1:25:B:CYS:H	12	0.15
(1,44)	1:29:A:LEU:HD11	1:25:B:CYS:H	13	0.15
(1,44)	1:29:A:LEU:HD12	1:25:B:CYS:H	13	0.15
(1,44)	1:29:A:LEU:HD13	1:25:B:CYS:H	13	0.15
(1,44)	1:29:A:LEU:HD21	1:25:B:CYS:H	13	0.15
(1,44)	1:29:A:LEU:HD22	1:25:B:CYS:H	13	0.15
(1,44)	1:29:A:LEU:HD23	1:25:B:CYS:H	13	0.15
(1,44)	1:29:A:LEU:HD11	1:25:B:CYS:H	15	0.15
(1,44)	1:29:A:LEU:HD12	1:25:B:CYS:H	15	0.15
(1,44)	1:29:A:LEU:HD13	1:25:B:CYS:H	15	0.15
(1,44)	1:29:A:LEU:HD21	1:25:B:CYS:H	15	0.15
(1,44)	1:29:A:LEU:HD22	1:25:B:CYS:H	15	0.15
(1,44)	1:29:A:LEU:HD23	1:25:B:CYS:H	15	0.15
(1,44)	1:29:A:LEU:HD11	1:25:B:CYS:H	19	0.15
(1,44)	1:29:A:LEU:HD12	1:25:B:CYS:H	19	0.15
(1,44)	1:29:A:LEU:HD13	1:25:B:CYS:H	19	0.15
(1,44)	1:29:A:LEU:HD21	1:25:B:CYS:H	19	0.15
(1,44)	1:29:A:LEU:HD22	1:25:B:CYS:H	19	0.15
(1,44)	1:29:A:LEU:HD23	1:25:B:CYS:H	19	0.15
(1,44)	1:29:A:LEU:HD11	1:25:B:CYS:H	20	0.15
(1,44)	1:29:A:LEU:HD12	1:25:B:CYS:H	20	0.15
(1,44)	1:29:A:LEU:HD13	1:25:B:CYS:H	20	0.15
(1,44)	1:29:A:LEU:HD21	1:25:B:CYS:H	20	0.15
(1,44)	1:29:A:LEU:HD22	1:25:B:CYS:H	20	0.15
(1,44)	1:29:A:LEU:HD23	1:25:B:CYS:H	20	0.15
(1,43)	1:29:B:LEU:HD11	1:25:A:CYS:H	2	0.15
(1,43)	1:29:B:LEU:HD12	1:25:A:CYS:H	2	0.15
(1,43)	1:29:B:LEU:HD13	1:25:A:CYS:H	2	0.15
(1,43)	1:29:B:LEU:HD21	1:25:A:CYS:H	2	0.15
(1,43)	1:29:B:LEU:HD22	1:25:A:CYS:H	2	0.15
(1,43)	1:29:B:LEU:HD23	1:25:A:CYS:H	2	0.15
(1,43)	1:29:B:LEU:HD11	1:25:A:CYS:H	10	0.15
(1,43)	1:29:B:LEU:HD12	1:25:A:CYS:H	10	0.15
(1,43)	1:29:B:LEU:HD13	1:25:A:CYS:H	10	0.15
(1,43)	1:29:B:LEU:HD21	1:25:A:CYS:H	10	0.15
(1,43)	1:29:B:LEU:HD22	1:25:A:CYS:H	10	0.15
(1,43)	1:29:B:LEU:HD23	1:25:A:CYS:H	10	0.15
(1,43)	1:29:B:LEU:HD11	1:25:A:CYS:H	14	0.15
(1,43)	1:29:B:LEU:HD12	1:25:A:CYS:H	14	0.15
(1,43)	1:29:B:LEU:HD13	1:25:A:CYS:H	14	0.15
(1,43)	1:29:B:LEU:HD21	1:25:A:CYS:H	14	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,43)	1:29:B:LEU:HD22	1:25:A:CYS:H	14	0.15
(1,43)	1:29:B:LEU:HD23	1:25:A:CYS:H	14	0.15
(1,43)	1:29:B:LEU:HD11	1:25:A:CYS:H	15	0.15
(1,43)	1:29:B:LEU:HD12	1:25:A:CYS:H	15	0.15
(1,43)	1:29:B:LEU:HD13	1:25:A:CYS:H	15	0.15
(1,43)	1:29:B:LEU:HD21	1:25:A:CYS:H	15	0.15
(1,43)	1:29:B:LEU:HD22	1:25:A:CYS:H	15	0.15
(1,43)	1:29:B:LEU:HD23	1:25:A:CYS:H	15	0.15
(1,41)	1:22:A:ASN:HB2	1:29:B:LEU:HD21	8	0.15
(1,41)	1:22:A:ASN:HB2	1:29:B:LEU:HD22	8	0.15
(1,41)	1:22:A:ASN:HB2	1:29:B:LEU:HD23	8	0.15
(1,34)	1:36:B:TYR:HE1	1:56:A:PHE:HD1	4	0.15
(1,34)	1:36:B:TYR:HE1	1:56:A:PHE:HD2	4	0.15
(1,34)	1:36:B:TYR:HE2	1:56:A:PHE:HD1	4	0.15
(1,34)	1:36:B:TYR:HE2	1:56:A:PHE:HD2	4	0.15
(1,34)	1:36:B:TYR:HE1	1:56:A:PHE:HD1	7	0.15
(1,34)	1:36:B:TYR:HE1	1:56:A:PHE:HD2	7	0.15
(1,34)	1:36:B:TYR:HE2	1:56:A:PHE:HD1	7	0.15
(1,34)	1:36:B:TYR:HE2	1:56:A:PHE:HD2	7	0.15
(1,24)	1:30:B:PHE:HE1	1:61:A:PHE:HZ	8	0.15
(1,24)	1:30:B:PHE:HE2	1:61:A:PHE:HZ	8	0.15
(1,23)	1:30:A:PHE:HE1	1:61:B:PHE:HZ	9	0.15
(1,23)	1:30:A:PHE:HE2	1:61:B:PHE:HZ	9	0.15
(1,22)	1:30:B:PHE:HD1	1:23:A:LEU:HG	1	0.15
(1,22)	1:30:B:PHE:HD2	1:23:A:LEU:HG	1	0.15
(1,22)	1:30:B:PHE:HD1	1:23:A:LEU:HG	2	0.15
(1,22)	1:30:B:PHE:HD2	1:23:A:LEU:HG	2	0.15
(1,21)	1:30:A:PHE:HD1	1:23:B:LEU:HG	5	0.15
(1,21)	1:30:A:PHE:HD2	1:23:B:LEU:HG	5	0.15
(1,3)	1:49:A:LEU:HD11	1:50:B:ASP:HA	1	0.15
(1,3)	1:49:A:LEU:HD12	1:50:B:ASP:HA	1	0.15
(1,3)	1:49:A:LEU:HD13	1:50:B:ASP:HA	1	0.15
(1,3)	1:49:A:LEU:HD11	1:50:B:ASP:HA	17	0.15
(1,3)	1:49:A:LEU:HD12	1:50:B:ASP:HA	17	0.15
(1,3)	1:49:A:LEU:HD13	1:50:B:ASP:HA	17	0.15
(1,3)	1:49:A:LEU:HD11	1:50:B:ASP:HA	19	0.15
(1,3)	1:49:A:LEU:HD12	1:50:B:ASP:HA	19	0.15
(1,3)	1:49:A:LEU:HD13	1:50:B:ASP:HA	19	0.15
(2,1)	1:43:A:CYS:SG	2:101:A:ZN:ZN	15	0.14
(2,1)	1:43:A:CYS:SG	2:101:A:ZN:ZN	16	0.14
(1,984)	1:35:B:SER:H	1:36:B:TYR:H	10	0.14
(1,984)	1:35:B:SER:H	1:36:B:TYR:H	11	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,984)	1:35:B:SER:H	1:36:B:TYR:H	18	0.14
(1,984)	1:35:B:SER:H	1:36:B:TYR:H	20	0.14
(1,978)	1:32:B:ALA:H	1:31:B:SER:HB3	2	0.14
(1,978)	1:32:B:ALA:H	1:31:B:SER:HB3	3	0.14
(1,978)	1:32:B:ALA:H	1:31:B:SER:HB3	4	0.14
(1,978)	1:32:B:ALA:H	1:31:B:SER:HB3	17	0.14
(1,972)	1:30:B:PHE:H	1:29:B:LEU:HB2	1	0.14
(1,972)	1:30:B:PHE:H	1:29:B:LEU:HB2	2	0.14
(1,972)	1:30:B:PHE:H	1:29:B:LEU:HB2	4	0.14
(1,972)	1:30:B:PHE:H	1:29:B:LEU:HB2	6	0.14
(1,972)	1:30:B:PHE:H	1:29:B:LEU:HB2	8	0.14
(1,972)	1:30:B:PHE:H	1:29:B:LEU:HB2	10	0.14
(1,972)	1:30:B:PHE:H	1:29:B:LEU:HB2	11	0.14
(1,972)	1:30:B:PHE:H	1:29:B:LEU:HB2	12	0.14
(1,972)	1:30:B:PHE:H	1:29:B:LEU:HB2	13	0.14
(1,972)	1:30:B:PHE:H	1:29:B:LEU:HB2	18	0.14
(1,946)	1:59:B:LYS:HE3	1:59:B:LYS:HG2	2	0.14
(1,946)	1:59:B:LYS:HE3	1:59:B:LYS:HG3	2	0.14
(1,946)	1:59:B:LYS:HE3	1:59:B:LYS:HG2	3	0.14
(1,946)	1:59:B:LYS:HE3	1:59:B:LYS:HG3	3	0.14
(1,946)	1:59:B:LYS:HE3	1:59:B:LYS:HG2	4	0.14
(1,946)	1:59:B:LYS:HE3	1:59:B:LYS:HG3	4	0.14
(1,946)	1:59:B:LYS:HE3	1:59:B:LYS:HG2	7	0.14
(1,946)	1:59:B:LYS:HE3	1:59:B:LYS:HG3	7	0.14
(1,946)	1:59:B:LYS:HE3	1:59:B:LYS:HG2	8	0.14
(1,946)	1:59:B:LYS:HE3	1:59:B:LYS:HG3	8	0.14
(1,946)	1:59:B:LYS:HE3	1:59:B:LYS:HG2	11	0.14
(1,946)	1:59:B:LYS:HE3	1:59:B:LYS:HG3	11	0.14
(1,946)	1:59:B:LYS:HE3	1:59:B:LYS:HG2	12	0.14
(1,946)	1:59:B:LYS:HE3	1:59:B:LYS:HG3	12	0.14
(1,946)	1:59:B:LYS:HE3	1:59:B:LYS:HG2	13	0.14
(1,946)	1:59:B:LYS:HE3	1:59:B:LYS:HG3	13	0.14
(1,946)	1:59:B:LYS:HE3	1:59:B:LYS:HG2	18	0.14
(1,946)	1:59:B:LYS:HE3	1:59:B:LYS:HG3	18	0.14
(1,946)	1:59:B:LYS:HE3	1:59:B:LYS:HG2	19	0.14
(1,946)	1:59:B:LYS:HE3	1:59:B:LYS:HG3	19	0.14
(1,946)	1:59:B:LYS:HE3	1:59:B:LYS:HG2	20	0.14
(1,946)	1:59:B:LYS:HE3	1:59:B:LYS:HG3	20	0.14
(1,944)	1:59:B:LYS:HB3	1:59:B:LYS:HG2	1	0.14
(1,944)	1:59:B:LYS:HB3	1:59:B:LYS:HG3	1	0.14
(1,944)	1:59:B:LYS:HB3	1:59:B:LYS:HG2	2	0.14
(1,944)	1:59:B:LYS:HB3	1:59:B:LYS:HG3	2	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,944)	1:59:B:LYS:HB3	1:59:B:LYS:HG2	3	0.14
(1,944)	1:59:B:LYS:HB3	1:59:B:LYS:HG3	3	0.14
(1,944)	1:59:B:LYS:HB3	1:59:B:LYS:HG2	6	0.14
(1,944)	1:59:B:LYS:HB3	1:59:B:LYS:HG3	6	0.14
(1,944)	1:59:B:LYS:HB3	1:59:B:LYS:HG2	8	0.14
(1,944)	1:59:B:LYS:HB3	1:59:B:LYS:HG3	8	0.14
(1,944)	1:59:B:LYS:HB3	1:59:B:LYS:HG2	9	0.14
(1,944)	1:59:B:LYS:HB3	1:59:B:LYS:HG3	9	0.14
(1,944)	1:59:B:LYS:HB3	1:59:B:LYS:HG2	10	0.14
(1,944)	1:59:B:LYS:HB3	1:59:B:LYS:HG3	10	0.14
(1,944)	1:59:B:LYS:HB3	1:59:B:LYS:HG2	11	0.14
(1,944)	1:59:B:LYS:HB3	1:59:B:LYS:HG3	11	0.14
(1,944)	1:59:B:LYS:HB3	1:59:B:LYS:HG2	12	0.14
(1,944)	1:59:B:LYS:HB3	1:59:B:LYS:HG3	12	0.14
(1,944)	1:59:B:LYS:HB3	1:59:B:LYS:HG2	14	0.14
(1,944)	1:59:B:LYS:HB3	1:59:B:LYS:HG3	14	0.14
(1,944)	1:59:B:LYS:HB3	1:59:B:LYS:HG2	15	0.14
(1,944)	1:59:B:LYS:HB3	1:59:B:LYS:HG3	15	0.14
(1,944)	1:59:B:LYS:HB3	1:59:B:LYS:HG2	18	0.14
(1,944)	1:59:B:LYS:HB3	1:59:B:LYS:HG3	18	0.14
(1,944)	1:59:B:LYS:HB3	1:59:B:LYS:HG2	19	0.14
(1,944)	1:59:B:LYS:HB3	1:59:B:LYS:HG3	19	0.14
(1,933)	1:54:B:GLU:HB3	1:54:B:GLU:HG2	3	0.14
(1,933)	1:54:B:GLU:HB3	1:54:B:GLU:HG3	3	0.14
(1,933)	1:54:B:GLU:HB3	1:54:B:GLU:HG2	15	0.14
(1,933)	1:54:B:GLU:HB3	1:54:B:GLU:HG3	15	0.14
(1,933)	1:54:B:GLU:HB3	1:54:B:GLU:HG2	16	0.14
(1,933)	1:54:B:GLU:HB3	1:54:B:GLU:HG3	16	0.14
(1,913)	1:45:B:GLN:HB2	1:46:B:ARG:H	8	0.14
(1,913)	1:45:B:GLN:HB3	1:46:B:ARG:H	8	0.14
(1,913)	1:45:B:GLN:HB2	1:46:B:ARG:H	9	0.14
(1,913)	1:45:B:GLN:HB3	1:46:B:ARG:H	9	0.14
(1,913)	1:45:B:GLN:HB2	1:46:B:ARG:H	12	0.14
(1,913)	1:45:B:GLN:HB3	1:46:B:ARG:H	12	0.14
(1,913)	1:45:B:GLN:HB2	1:46:B:ARG:H	14	0.14
(1,913)	1:45:B:GLN:HB3	1:46:B:ARG:H	14	0.14
(1,913)	1:45:B:GLN:HB2	1:46:B:ARG:H	17	0.14
(1,913)	1:45:B:GLN:HB3	1:46:B:ARG:H	17	0.14
(1,824)	1:21:B:HIS:HD2	1:21:B:HIS:HB3	3	0.14
(1,815)	1:48:B:PRO:HD2	1:47:B:LEU:HA	4	0.14
(1,815)	1:48:B:PRO:HD2	1:47:B:LEU:HA	16	0.14
(1,815)	1:48:B:PRO:HD2	1:47:B:LEU:HA	18	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,809)	1:57:B:ARG:HG2	1:57:B:ARG:HA	15	0.14
(1,809)	1:57:B:ARG:HG2	1:57:B:ARG:HA	16	0.14
(1,809)	1:57:B:ARG:HG2	1:57:B:ARG:HA	17	0.14
(1,800)	1:47:B:LEU:H	1:46:B:ARG:HG2	3	0.14
(1,800)	1:47:B:LEU:H	1:46:B:ARG:HG3	3	0.14
(1,800)	1:47:B:LEU:H	1:46:B:ARG:HG2	4	0.14
(1,800)	1:47:B:LEU:H	1:46:B:ARG:HG3	4	0.14
(1,800)	1:47:B:LEU:H	1:46:B:ARG:HG2	13	0.14
(1,800)	1:47:B:LEU:H	1:46:B:ARG:HG3	13	0.14
(1,800)	1:47:B:LEU:H	1:46:B:ARG:HG2	18	0.14
(1,800)	1:47:B:LEU:H	1:46:B:ARG:HG3	18	0.14
(1,775)	1:45:B:GLN:H	1:40:B:CYS:HB2	3	0.14
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD11	10	0.14
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD12	10	0.14
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD13	10	0.14
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD11	11	0.14
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD12	11	0.14
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD13	11	0.14
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD11	16	0.14
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD12	16	0.14
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD13	16	0.14
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD11	17	0.14
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD12	17	0.14
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD13	17	0.14
(1,729)	1:56:B:PHE:HE1	1:61:B:PHE:HB3	1	0.14
(1,729)	1:56:B:PHE:HE2	1:61:B:PHE:HB3	1	0.14
(1,729)	1:56:B:PHE:HE1	1:61:B:PHE:HB3	6	0.14
(1,729)	1:56:B:PHE:HE2	1:61:B:PHE:HB3	6	0.14
(1,729)	1:56:B:PHE:HE1	1:61:B:PHE:HB3	7	0.14
(1,729)	1:56:B:PHE:HE2	1:61:B:PHE:HB3	7	0.14
(1,729)	1:56:B:PHE:HE1	1:61:B:PHE:HB3	10	0.14
(1,729)	1:56:B:PHE:HE2	1:61:B:PHE:HB3	10	0.14
(1,729)	1:56:B:PHE:HE1	1:61:B:PHE:HB3	12	0.14
(1,729)	1:56:B:PHE:HE2	1:61:B:PHE:HB3	12	0.14
(1,729)	1:56:B:PHE:HE1	1:61:B:PHE:HB3	19	0.14
(1,729)	1:56:B:PHE:HE2	1:61:B:PHE:HB3	19	0.14
(1,727)	1:40:B:CYS:HB3	1:52:B:TYR:HE1	5	0.14
(1,727)	1:40:B:CYS:HB3	1:52:B:TYR:HE2	5	0.14
(1,727)	1:40:B:CYS:HB3	1:52:B:TYR:HE1	13	0.14
(1,727)	1:40:B:CYS:HB3	1:52:B:TYR:HE2	13	0.14
(1,721)	1:30:B:PHE:HE1	1:32:B:ALA:HA	6	0.14
(1,721)	1:30:B:PHE:HE2	1:32:B:ALA:HA	6	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,721)	1:30:B:PHE:HE1	1:32:B:ALA:HA	17	0.14
(1,721)	1:30:B:PHE:HE2	1:32:B:ALA:HA	17	0.14
(1,720)	1:30:B:PHE:HE1	1:34:B:ALA:HA	10	0.14
(1,720)	1:30:B:PHE:HE2	1:34:B:ALA:HA	10	0.14
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD11	4	0.14
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD12	4	0.14
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD13	4	0.14
(1,708)	1:62:B:THR:H	1:61:B:PHE:HA	16	0.14
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD11	1	0.14
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD12	1	0.14
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD13	1	0.14
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD11	12	0.14
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD12	12	0.14
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD13	12	0.14
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD11	13	0.14
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD12	13	0.14
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD13	13	0.14
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD11	19	0.14
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD12	19	0.14
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD13	19	0.14
(1,643)	1:42:B:LEU:HD21	1:25:B:CYS:HA	1	0.14
(1,643)	1:42:B:LEU:HD22	1:25:B:CYS:HA	1	0.14
(1,643)	1:42:B:LEU:HD23	1:25:B:CYS:HA	1	0.14
(1,634)	1:35:B:SER:HB2	1:31:B:SER:HB2	1	0.14
(1,634)	1:35:B:SER:HB2	1:31:B:SER:HB2	18	0.14
(1,634)	1:35:B:SER:HB2	1:31:B:SER:HB2	20	0.14
(1,625)	1:42:B:LEU:HD11	1:25:B:CYS:HA	6	0.14
(1,625)	1:42:B:LEU:HD12	1:25:B:CYS:HA	6	0.14
(1,625)	1:42:B:LEU:HD13	1:25:B:CYS:HA	6	0.14
(1,608)	1:59:B:LYS:H	1:58:B:LEU:HB3	12	0.14
(1,608)	1:59:B:LYS:H	1:58:B:LEU:HB3	14	0.14
(1,599)	1:61:B:PHE:HB3	1:57:B:ARG:HA	7	0.14
(1,593)	1:55:B:HIS:HD2	1:56:B:PHE:HA	17	0.14
(1,575)	1:37:B:GLU:HA	1:48:B:PRO:HA	16	0.14
(1,574)	1:49:B:LEU:HA	1:38:B:VAL:HB	12	0.14
(1,571)	1:34:B:ALA:HA	1:36:B:TYR:HD1	2	0.14
(1,571)	1:34:B:ALA:HA	1:36:B:TYR:HD2	2	0.14
(1,566)	1:20:B:TYR:HE1	1:61:B:PHE:HA	9	0.14
(1,566)	1:20:B:TYR:HE2	1:61:B:PHE:HA	9	0.14
(1,543)	1:58:A:LEU:H	1:57:A:ARG:HB2	18	0.14
(1,503)	1:35:A:SER:H	1:36:A:TYR:H	1	0.14
(1,503)	1:35:A:SER:H	1:36:A:TYR:H	3	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,503)	1:35:A:SER:H	1:36:A:TYR:H	7	0.14
(1,503)	1:35:A:SER:H	1:36:A:TYR:H	8	0.14
(1,503)	1:35:A:SER:H	1:36:A:TYR:H	14	0.14
(1,503)	1:35:A:SER:H	1:36:A:TYR:H	17	0.14
(1,497)	1:32:A:ALA:H	1:31:A:SER:HB3	1	0.14
(1,497)	1:32:A:ALA:H	1:31:A:SER:HB3	2	0.14
(1,497)	1:32:A:ALA:H	1:31:A:SER:HB3	5	0.14
(1,497)	1:32:A:ALA:H	1:31:A:SER:HB3	16	0.14
(1,491)	1:30:A:PHE:H	1:29:A:LEU:HB2	1	0.14
(1,491)	1:30:A:PHE:H	1:29:A:LEU:HB2	2	0.14
(1,491)	1:30:A:PHE:H	1:29:A:LEU:HB2	7	0.14
(1,491)	1:30:A:PHE:H	1:29:A:LEU:HB2	8	0.14
(1,491)	1:30:A:PHE:H	1:29:A:LEU:HB2	11	0.14
(1,491)	1:30:A:PHE:H	1:29:A:LEU:HB2	17	0.14
(1,491)	1:30:A:PHE:H	1:29:A:LEU:HB2	20	0.14
(1,488)	1:28:A:VAL:H	1:27:A:GLU:HG2	13	0.14
(1,488)	1:28:A:VAL:H	1:27:A:GLU:HG3	13	0.14
(1,465)	1:59:A:LYS:HE3	1:59:A:LYS:HG2	2	0.14
(1,465)	1:59:A:LYS:HE3	1:59:A:LYS:HG3	2	0.14
(1,465)	1:59:A:LYS:HE3	1:59:A:LYS:HG2	5	0.14
(1,465)	1:59:A:LYS:HE3	1:59:A:LYS:HG3	5	0.14
(1,465)	1:59:A:LYS:HE3	1:59:A:LYS:HG2	6	0.14
(1,465)	1:59:A:LYS:HE3	1:59:A:LYS:HG3	6	0.14
(1,465)	1:59:A:LYS:HE3	1:59:A:LYS:HG2	7	0.14
(1,465)	1:59:A:LYS:HE3	1:59:A:LYS:HG3	7	0.14
(1,465)	1:59:A:LYS:HE3	1:59:A:LYS:HG2	10	0.14
(1,465)	1:59:A:LYS:HE3	1:59:A:LYS:HG3	10	0.14
(1,465)	1:59:A:LYS:HE3	1:59:A:LYS:HG2	11	0.14
(1,465)	1:59:A:LYS:HE3	1:59:A:LYS:HG3	11	0.14
(1,465)	1:59:A:LYS:HE3	1:59:A:LYS:HG2	17	0.14
(1,465)	1:59:A:LYS:HE3	1:59:A:LYS:HG3	17	0.14
(1,465)	1:59:A:LYS:HE3	1:59:A:LYS:HG2	18	0.14
(1,465)	1:59:A:LYS:HE3	1:59:A:LYS:HG3	18	0.14
(1,465)	1:59:A:LYS:HE3	1:59:A:LYS:HG2	19	0.14
(1,465)	1:59:A:LYS:HE3	1:59:A:LYS:HG3	19	0.14
(1,463)	1:59:A:LYS:HB3	1:59:A:LYS:HG2	2	0.14
(1,463)	1:59:A:LYS:HB3	1:59:A:LYS:HG3	2	0.14
(1,463)	1:59:A:LYS:HB3	1:59:A:LYS:HG2	4	0.14
(1,463)	1:59:A:LYS:HB3	1:59:A:LYS:HG3	4	0.14
(1,463)	1:59:A:LYS:HB3	1:59:A:LYS:HG2	6	0.14
(1,463)	1:59:A:LYS:HB3	1:59:A:LYS:HG3	6	0.14
(1,463)	1:59:A:LYS:HB3	1:59:A:LYS:HG2	7	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,463)	1:59:A:LYS:HB3	1:59:A:LYS:HG3	7	0.14
(1,463)	1:59:A:LYS:HB3	1:59:A:LYS:HG2	10	0.14
(1,463)	1:59:A:LYS:HB3	1:59:A:LYS:HG3	10	0.14
(1,463)	1:59:A:LYS:HB3	1:59:A:LYS:HG2	11	0.14
(1,463)	1:59:A:LYS:HB3	1:59:A:LYS:HG3	11	0.14
(1,463)	1:59:A:LYS:HB3	1:59:A:LYS:HG2	12	0.14
(1,463)	1:59:A:LYS:HB3	1:59:A:LYS:HG3	12	0.14
(1,463)	1:59:A:LYS:HB3	1:59:A:LYS:HG2	15	0.14
(1,463)	1:59:A:LYS:HB3	1:59:A:LYS:HG3	15	0.14
(1,463)	1:59:A:LYS:HB3	1:59:A:LYS:HG2	17	0.14
(1,463)	1:59:A:LYS:HB3	1:59:A:LYS:HG3	17	0.14
(1,463)	1:59:A:LYS:HB3	1:59:A:LYS:HG2	18	0.14
(1,463)	1:59:A:LYS:HB3	1:59:A:LYS:HG3	18	0.14
(1,463)	1:59:A:LYS:HB3	1:59:A:LYS:HG2	19	0.14
(1,463)	1:59:A:LYS:HB3	1:59:A:LYS:HG3	19	0.14
(1,452)	1:54:A:GLU:HB3	1:54:A:GLU:HG2	4	0.14
(1,452)	1:54:A:GLU:HB3	1:54:A:GLU:HG3	4	0.14
(1,452)	1:54:A:GLU:HB3	1:54:A:GLU:HG2	9	0.14
(1,452)	1:54:A:GLU:HB3	1:54:A:GLU:HG3	9	0.14
(1,452)	1:54:A:GLU:HB3	1:54:A:GLU:HG2	14	0.14
(1,452)	1:54:A:GLU:HB3	1:54:A:GLU:HG3	14	0.14
(1,452)	1:54:A:GLU:HB3	1:54:A:GLU:HG2	15	0.14
(1,452)	1:54:A:GLU:HB3	1:54:A:GLU:HG3	15	0.14
(1,452)	1:54:A:GLU:HB3	1:54:A:GLU:HG2	18	0.14
(1,452)	1:54:A:GLU:HB3	1:54:A:GLU:HG3	18	0.14
(1,451)	1:52:A:TYR:HA	1:55:A:HIS:HB2	18	0.14
(1,446)	1:49:A:LEU:HD21	1:36:A:TYR:HD1	10	0.14
(1,446)	1:49:A:LEU:HD21	1:36:A:TYR:HD2	10	0.14
(1,446)	1:49:A:LEU:HD22	1:36:A:TYR:HD1	10	0.14
(1,446)	1:49:A:LEU:HD22	1:36:A:TYR:HD2	10	0.14
(1,446)	1:49:A:LEU:HD23	1:36:A:TYR:HD1	10	0.14
(1,446)	1:49:A:LEU:HD23	1:36:A:TYR:HD2	10	0.14
(1,432)	1:45:A:GLN:HB2	1:46:A:ARG:H	6	0.14
(1,432)	1:45:A:GLN:HB3	1:46:A:ARG:H	6	0.14
(1,432)	1:45:A:GLN:HB2	1:46:A:ARG:H	8	0.14
(1,432)	1:45:A:GLN:HB3	1:46:A:ARG:H	8	0.14
(1,432)	1:45:A:GLN:HB2	1:46:A:ARG:H	13	0.14
(1,432)	1:45:A:GLN:HB3	1:46:A:ARG:H	13	0.14
(1,432)	1:45:A:GLN:HB2	1:46:A:ARG:H	16	0.14
(1,432)	1:45:A:GLN:HB3	1:46:A:ARG:H	16	0.14
(1,428)	1:25:A:CYS:HB2	1:42:A:LEU:HD11	11	0.14
(1,428)	1:25:A:CYS:HB2	1:42:A:LEU:HD12	11	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,428)	1:25:A:CYS:HB2	1:42:A:LEU:HD13	11	0.14
(1,369)	1:27:A:GLU:H	1:26:A:GLY:HA3	1	0.14
(1,369)	1:27:A:GLU:H	1:26:A:GLY:HA3	9	0.14
(1,361)	1:24:A:ARG:H	1:23:A:LEU:HB3	2	0.14
(1,361)	1:24:A:ARG:H	1:23:A:LEU:HB3	9	0.14
(1,361)	1:24:A:ARG:H	1:23:A:LEU:HB3	16	0.14
(1,334)	1:48:A:PRO:HD2	1:47:A:LEU:HA	1	0.14
(1,334)	1:48:A:PRO:HD2	1:47:A:LEU:HA	2	0.14
(1,334)	1:48:A:PRO:HD2	1:47:A:LEU:HA	4	0.14
(1,334)	1:48:A:PRO:HD2	1:47:A:LEU:HA	9	0.14
(1,334)	1:48:A:PRO:HD2	1:47:A:LEU:HA	17	0.14
(1,328)	1:57:A:ARG:HG2	1:57:A:ARG:HA	16	0.14
(1,322)	1:28:A:VAL:H	1:27:A:GLU:HB2	14	0.14
(1,322)	1:28:A:VAL:H	1:27:A:GLU:HB3	14	0.14
(1,321)	1:50:A:ASP:H	1:49:A:LEU:HG	15	0.14
(1,319)	1:47:A:LEU:H	1:46:A:ARG:HG2	1	0.14
(1,319)	1:47:A:LEU:H	1:46:A:ARG:HG3	1	0.14
(1,319)	1:47:A:LEU:H	1:46:A:ARG:HG2	17	0.14
(1,319)	1:47:A:LEU:H	1:46:A:ARG:HG3	17	0.14
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD21	1	0.14
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD22	1	0.14
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD23	1	0.14
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD21	9	0.14
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD22	9	0.14
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD23	9	0.14
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD11	4	0.14
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD12	4	0.14
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD13	4	0.14
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD11	7	0.14
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD12	7	0.14
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD13	7	0.14
(1,249)	1:42:A:LEU:HD11	1:56:A:PHE:HZ	3	0.14
(1,249)	1:42:A:LEU:HD12	1:56:A:PHE:HZ	3	0.14
(1,249)	1:42:A:LEU:HD13	1:56:A:PHE:HZ	3	0.14
(1,249)	1:42:A:LEU:HD11	1:56:A:PHE:HZ	5	0.14
(1,249)	1:42:A:LEU:HD12	1:56:A:PHE:HZ	5	0.14
(1,249)	1:42:A:LEU:HD13	1:56:A:PHE:HZ	5	0.14
(1,248)	1:56:A:PHE:HE1	1:61:A:PHE:HB3	5	0.14
(1,248)	1:56:A:PHE:HE2	1:61:A:PHE:HB3	5	0.14
(1,248)	1:56:A:PHE:HE1	1:61:A:PHE:HB3	20	0.14
(1,248)	1:56:A:PHE:HE2	1:61:A:PHE:HB3	20	0.14
(1,243)	1:61:A:PHE:H	1:57:A:ARG:HA	18	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,240)	1:30:A:PHE:HE1	1:32:A:ALA:HA	2	0.14
(1,240)	1:30:A:PHE:HE2	1:32:A:ALA:HA	2	0.14
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD11	11	0.14
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD12	11	0.14
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD13	11	0.14
(1,170)	1:55:A:HIS:H	1:47:A:LEU:HD11	18	0.14
(1,170)	1:55:A:HIS:H	1:47:A:LEU:HD12	18	0.14
(1,170)	1:55:A:HIS:H	1:47:A:LEU:HD13	18	0.14
(1,162)	1:42:A:LEU:HD21	1:25:A:CYS:HA	6	0.14
(1,162)	1:42:A:LEU:HD22	1:25:A:CYS:HA	6	0.14
(1,162)	1:42:A:LEU:HD23	1:25:A:CYS:HA	6	0.14
(1,162)	1:42:A:LEU:HD21	1:25:A:CYS:HA	8	0.14
(1,162)	1:42:A:LEU:HD22	1:25:A:CYS:HA	8	0.14
(1,162)	1:42:A:LEU:HD23	1:25:A:CYS:HA	8	0.14
(1,153)	1:35:A:SER:HB2	1:31:A:SER:HB2	16	0.14
(1,127)	1:59:A:LYS:H	1:58:A:LEU:HB3	10	0.14
(1,118)	1:61:A:PHE:HB3	1:57:A:ARG:HA	10	0.14
(1,112)	1:55:A:HIS:HD2	1:56:A:PHE:HA	8	0.14
(1,112)	1:55:A:HIS:HD2	1:56:A:PHE:HA	13	0.14
(1,112)	1:55:A:HIS:HD2	1:56:A:PHE:HA	16	0.14
(1,94)	1:37:A:GLU:HA	1:48:A:PRO:HA	12	0.14
(1,90)	1:34:A:ALA:HA	1:36:A:TYR:HD1	15	0.14
(1,90)	1:34:A:ALA:HA	1:36:A:TYR:HD2	15	0.14
(1,90)	1:34:A:ALA:HA	1:36:A:TYR:HD1	19	0.14
(1,90)	1:34:A:ALA:HA	1:36:A:TYR:HD2	19	0.14
(1,78)	1:36:B:TYR:HE1	1:56:A:PHE:H	1	0.14
(1,78)	1:36:B:TYR:HE2	1:56:A:PHE:H	1	0.14
(1,78)	1:36:B:TYR:HE1	1:56:A:PHE:H	6	0.14
(1,78)	1:36:B:TYR:HE2	1:56:A:PHE:H	6	0.14
(1,78)	1:36:B:TYR:HE1	1:56:A:PHE:H	19	0.14
(1,78)	1:36:B:TYR:HE2	1:56:A:PHE:H	19	0.14
(1,76)	1:22:B:ASN:H	1:32:A:ALA:H	5	0.14
(1,76)	1:22:B:ASN:H	1:32:A:ALA:H	12	0.14
(1,76)	1:22:B:ASN:H	1:32:A:ALA:H	19	0.14
(1,75)	1:22:A:ASN:H	1:32:B:ALA:H	7	0.14
(1,72)	1:32:B:ALA:H	1:20:A:TYR:HB3	3	0.14
(1,72)	1:32:B:ALA:H	1:20:A:TYR:HB3	18	0.14
(1,71)	1:32:A:ALA:H	1:20:B:TYR:HB3	15	0.14
(1,71)	1:32:A:ALA:H	1:20:B:TYR:HB3	20	0.14
(1,70)	1:32:B:ALA:H	1:20:A:TYR:HB2	10	0.14
(1,58)	1:26:B:GLY:H	1:28:A:VAL:H	7	0.14
(1,54)	1:25:B:CYS:H	1:28:A:VAL:HB	12	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,54)	1:25:B:CYS:H	1:28:A:VAL:HB	14	0.14
(1,44)	1:29:A:LEU:HD11	1:25:B:CYS:H	5	0.14
(1,44)	1:29:A:LEU:HD12	1:25:B:CYS:H	5	0.14
(1,44)	1:29:A:LEU:HD13	1:25:B:CYS:H	5	0.14
(1,44)	1:29:A:LEU:HD21	1:25:B:CYS:H	5	0.14
(1,44)	1:29:A:LEU:HD22	1:25:B:CYS:H	5	0.14
(1,44)	1:29:A:LEU:HD23	1:25:B:CYS:H	5	0.14
(1,44)	1:29:A:LEU:HD11	1:25:B:CYS:H	18	0.14
(1,44)	1:29:A:LEU:HD12	1:25:B:CYS:H	18	0.14
(1,44)	1:29:A:LEU:HD13	1:25:B:CYS:H	18	0.14
(1,44)	1:29:A:LEU:HD21	1:25:B:CYS:H	18	0.14
(1,44)	1:29:A:LEU:HD22	1:25:B:CYS:H	18	0.14
(1,44)	1:29:A:LEU:HD23	1:25:B:CYS:H	18	0.14
(1,43)	1:29:B:LEU:HD11	1:25:A:CYS:H	7	0.14
(1,43)	1:29:B:LEU:HD12	1:25:A:CYS:H	7	0.14
(1,43)	1:29:B:LEU:HD13	1:25:A:CYS:H	7	0.14
(1,43)	1:29:B:LEU:HD21	1:25:A:CYS:H	7	0.14
(1,43)	1:29:B:LEU:HD22	1:25:A:CYS:H	7	0.14
(1,43)	1:29:B:LEU:HD23	1:25:A:CYS:H	7	0.14
(1,43)	1:29:B:LEU:HD11	1:25:A:CYS:H	9	0.14
(1,43)	1:29:B:LEU:HD12	1:25:A:CYS:H	9	0.14
(1,43)	1:29:B:LEU:HD13	1:25:A:CYS:H	9	0.14
(1,43)	1:29:B:LEU:HD21	1:25:A:CYS:H	9	0.14
(1,43)	1:29:B:LEU:HD22	1:25:A:CYS:H	9	0.14
(1,43)	1:29:B:LEU:HD23	1:25:A:CYS:H	9	0.14
(1,43)	1:29:B:LEU:HD11	1:25:A:CYS:H	11	0.14
(1,43)	1:29:B:LEU:HD12	1:25:A:CYS:H	11	0.14
(1,43)	1:29:B:LEU:HD13	1:25:A:CYS:H	11	0.14
(1,43)	1:29:B:LEU:HD21	1:25:A:CYS:H	11	0.14
(1,43)	1:29:B:LEU:HD22	1:25:A:CYS:H	11	0.14
(1,43)	1:29:B:LEU:HD23	1:25:A:CYS:H	11	0.14
(1,43)	1:29:B:LEU:HD11	1:25:A:CYS:H	13	0.14
(1,43)	1:29:B:LEU:HD12	1:25:A:CYS:H	13	0.14
(1,43)	1:29:B:LEU:HD13	1:25:A:CYS:H	13	0.14
(1,43)	1:29:B:LEU:HD21	1:25:A:CYS:H	13	0.14
(1,43)	1:29:B:LEU:HD22	1:25:A:CYS:H	13	0.14
(1,43)	1:29:B:LEU:HD23	1:25:A:CYS:H	13	0.14
(1,43)	1:29:B:LEU:HD11	1:25:A:CYS:H	16	0.14
(1,43)	1:29:B:LEU:HD12	1:25:A:CYS:H	16	0.14
(1,43)	1:29:B:LEU:HD13	1:25:A:CYS:H	16	0.14
(1,43)	1:29:B:LEU:HD21	1:25:A:CYS:H	16	0.14
(1,43)	1:29:B:LEU:HD22	1:25:A:CYS:H	16	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,43)	1:29:B:LEU:HD23	1:25:A:CYS:H	16	0.14
(1,43)	1:29:B:LEU:HD11	1:25:A:CYS:H	17	0.14
(1,43)	1:29:B:LEU:HD12	1:25:A:CYS:H	17	0.14
(1,43)	1:29:B:LEU:HD13	1:25:A:CYS:H	17	0.14
(1,43)	1:29:B:LEU:HD21	1:25:A:CYS:H	17	0.14
(1,43)	1:29:B:LEU:HD22	1:25:A:CYS:H	17	0.14
(1,43)	1:29:B:LEU:HD23	1:25:A:CYS:H	17	0.14
(1,43)	1:29:B:LEU:HD11	1:25:A:CYS:H	19	0.14
(1,43)	1:29:B:LEU:HD12	1:25:A:CYS:H	19	0.14
(1,43)	1:29:B:LEU:HD13	1:25:A:CYS:H	19	0.14
(1,43)	1:29:B:LEU:HD21	1:25:A:CYS:H	19	0.14
(1,43)	1:29:B:LEU:HD22	1:25:A:CYS:H	19	0.14
(1,43)	1:29:B:LEU:HD23	1:25:A:CYS:H	19	0.14
(1,43)	1:29:B:LEU:HD11	1:25:A:CYS:H	20	0.14
(1,43)	1:29:B:LEU:HD12	1:25:A:CYS:H	20	0.14
(1,43)	1:29:B:LEU:HD13	1:25:A:CYS:H	20	0.14
(1,43)	1:29:B:LEU:HD21	1:25:A:CYS:H	20	0.14
(1,43)	1:29:B:LEU:HD22	1:25:A:CYS:H	20	0.14
(1,43)	1:29:B:LEU:HD23	1:25:A:CYS:H	20	0.14
(1,33)	1:36:A:TYR:HE1	1:56:B:PHE:HD1	2	0.14
(1,33)	1:36:A:TYR:HE1	1:56:B:PHE:HD2	2	0.14
(1,33)	1:36:A:TYR:HE2	1:56:B:PHE:HD1	2	0.14
(1,33)	1:36:A:TYR:HE2	1:56:B:PHE:HD2	2	0.14
(1,22)	1:30:B:PHE:HD1	1:23:A:LEU:HG	17	0.14
(1,22)	1:30:B:PHE:HD2	1:23:A:LEU:HG	17	0.14
(1,21)	1:30:A:PHE:HD1	1:23:B:LEU:HG	6	0.14
(1,21)	1:30:A:PHE:HD2	1:23:B:LEU:HG	6	0.14
(1,20)	1:21:B:HIS:HA	1:31:A:SER:HA	5	0.14
(1,4)	1:49:B:LEU:HD11	1:50:A:ASP:HA	5	0.14
(1,4)	1:49:B:LEU:HD12	1:50:A:ASP:HA	5	0.14
(1,4)	1:49:B:LEU:HD13	1:50:A:ASP:HA	5	0.14
(1,3)	1:49:A:LEU:HD11	1:50:B:ASP:HA	10	0.14
(1,3)	1:49:A:LEU:HD12	1:50:B:ASP:HA	10	0.14
(1,3)	1:49:A:LEU:HD13	1:50:B:ASP:HA	10	0.14
(2,6)	1:40:B:CYS:SG	2:101:B:ZN:ZN	9	0.13
(2,2)	1:40:A:CYS:SG	2:101:A:ZN:ZN	6	0.13
(1,1039)	1:62:B:THR:H	1:62:B:THR:HB	19	0.13
(1,1024)	1:58:B:LEU:H	1:57:B:ARG:HB2	11	0.13
(1,1024)	1:58:B:LEU:H	1:57:B:ARG:HB2	15	0.13
(1,978)	1:32:B:ALA:H	1:31:B:SER:HB3	10	0.13
(1,972)	1:30:B:PHE:H	1:29:B:LEU:HB2	15	0.13
(1,972)	1:30:B:PHE:H	1:29:B:LEU:HB2	16	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,969)	1:28:B:VAL:H	1:27:B:GLU:HG2	5	0.13
(1,969)	1:28:B:VAL:H	1:27:B:GLU:HG3	5	0.13
(1,969)	1:28:B:VAL:H	1:27:B:GLU:HG2	7	0.13
(1,969)	1:28:B:VAL:H	1:27:B:GLU:HG3	7	0.13
(1,969)	1:28:B:VAL:H	1:27:B:GLU:HG2	14	0.13
(1,969)	1:28:B:VAL:H	1:27:B:GLU:HG3	14	0.13
(1,957)	1:63:B:ASN:HA	1:63:B:ASN:HB3	7	0.13
(1,946)	1:59:B:LYS:HE3	1:59:B:LYS:HG2	5	0.13
(1,946)	1:59:B:LYS:HE3	1:59:B:LYS:HG3	5	0.13
(1,946)	1:59:B:LYS:HE3	1:59:B:LYS:HG2	9	0.13
(1,946)	1:59:B:LYS:HE3	1:59:B:LYS:HG3	9	0.13
(1,946)	1:59:B:LYS:HE3	1:59:B:LYS:HG2	15	0.13
(1,946)	1:59:B:LYS:HE3	1:59:B:LYS:HG3	15	0.13
(1,932)	1:52:B:TYR:HA	1:55:B:HIS:HB2	3	0.13
(1,913)	1:45:B:GLN:HB2	1:46:B:ARG:H	1	0.13
(1,913)	1:45:B:GLN:HB3	1:46:B:ARG:H	1	0.13
(1,913)	1:45:B:GLN:HB2	1:46:B:ARG:H	6	0.13
(1,913)	1:45:B:GLN:HB3	1:46:B:ARG:H	6	0.13
(1,913)	1:45:B:GLN:HB2	1:46:B:ARG:H	7	0.13
(1,913)	1:45:B:GLN:HB3	1:46:B:ARG:H	7	0.13
(1,913)	1:45:B:GLN:HB2	1:46:B:ARG:H	10	0.13
(1,913)	1:45:B:GLN:HB3	1:46:B:ARG:H	10	0.13
(1,913)	1:45:B:GLN:HB2	1:46:B:ARG:H	11	0.13
(1,913)	1:45:B:GLN:HB3	1:46:B:ARG:H	11	0.13
(1,913)	1:45:B:GLN:HB2	1:46:B:ARG:H	19	0.13
(1,913)	1:45:B:GLN:HB3	1:46:B:ARG:H	19	0.13
(1,909)	1:25:B:CYS:HB2	1:42:B:LEU:HD11	5	0.13
(1,909)	1:25:B:CYS:HB2	1:42:B:LEU:HD12	5	0.13
(1,909)	1:25:B:CYS:HB2	1:42:B:LEU:HD13	5	0.13
(1,909)	1:25:B:CYS:HB2	1:42:B:LEU:HD11	7	0.13
(1,909)	1:25:B:CYS:HB2	1:42:B:LEU:HD12	7	0.13
(1,909)	1:25:B:CYS:HB2	1:42:B:LEU:HD13	7	0.13
(1,909)	1:25:B:CYS:HB2	1:42:B:LEU:HD11	12	0.13
(1,909)	1:25:B:CYS:HB2	1:42:B:LEU:HD12	12	0.13
(1,909)	1:25:B:CYS:HB2	1:42:B:LEU:HD13	12	0.13
(1,909)	1:25:B:CYS:HB2	1:42:B:LEU:HD11	17	0.13
(1,909)	1:25:B:CYS:HB2	1:42:B:LEU:HD12	17	0.13
(1,909)	1:25:B:CYS:HB2	1:42:B:LEU:HD13	17	0.13
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD11	2	0.13
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD12	2	0.13
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD13	2	0.13
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD21	2	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD22	2	0.13
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD23	2	0.13
(1,820)	1:27:B:GLU:HG2	1:41:B:LEU:HD21	8	0.13
(1,820)	1:27:B:GLU:HG2	1:41:B:LEU:HD22	8	0.13
(1,820)	1:27:B:GLU:HG2	1:41:B:LEU:HD23	8	0.13
(1,820)	1:27:B:GLU:HG3	1:41:B:LEU:HD21	8	0.13
(1,820)	1:27:B:GLU:HG3	1:41:B:LEU:HD22	8	0.13
(1,820)	1:27:B:GLU:HG3	1:41:B:LEU:HD23	8	0.13
(1,815)	1:48:B:PRO:HD2	1:47:B:LEU:HA	15	0.13
(1,809)	1:57:B:ARG:HG2	1:57:B:ARG:HA	8	0.13
(1,806)	1:41:B:LEU:HB2	1:25:B:CYS:HA	8	0.13
(1,800)	1:47:B:LEU:H	1:46:B:ARG:HG2	16	0.13
(1,800)	1:47:B:LEU:H	1:46:B:ARG:HG3	16	0.13
(1,730)	1:42:B:LEU:HD11	1:56:B:PHE:HZ	13	0.13
(1,730)	1:42:B:LEU:HD12	1:56:B:PHE:HZ	13	0.13
(1,730)	1:42:B:LEU:HD13	1:56:B:PHE:HZ	13	0.13
(1,729)	1:56:B:PHE:HE1	1:61:B:PHE:HB3	8	0.13
(1,729)	1:56:B:PHE:HE2	1:61:B:PHE:HB3	8	0.13
(1,729)	1:56:B:PHE:HE1	1:61:B:PHE:HB3	17	0.13
(1,729)	1:56:B:PHE:HE2	1:61:B:PHE:HB3	17	0.13
(1,727)	1:40:B:CYS:HB3	1:52:B:TYR:HE1	3	0.13
(1,727)	1:40:B:CYS:HB3	1:52:B:TYR:HE2	3	0.13
(1,720)	1:30:B:PHE:HE1	1:34:B:ALA:HA	6	0.13
(1,720)	1:30:B:PHE:HE2	1:34:B:ALA:HA	6	0.13
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD11	7	0.13
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD12	7	0.13
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD13	7	0.13
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD11	12	0.13
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD12	12	0.13
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD13	12	0.13
(1,663)	1:19:B:GLY:H	1:20:B:TYR:H	1	0.13
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD11	3	0.13
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD12	3	0.13
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD13	3	0.13
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD11	5	0.13
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD12	5	0.13
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD13	5	0.13
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD11	9	0.13
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD12	9	0.13
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD13	9	0.13
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD11	15	0.13
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD12	15	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD13	15	0.13
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD11	17	0.13
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD12	17	0.13
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD13	17	0.13
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD11	18	0.13
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD12	18	0.13
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD13	18	0.13
(1,645)	1:59:B:LYS:HD2	1:59:B:LYS:HA	16	0.13
(1,645)	1:59:B:LYS:HD3	1:59:B:LYS:HA	16	0.13
(1,643)	1:42:B:LEU:HD21	1:25:B:CYS:HA	9	0.13
(1,643)	1:42:B:LEU:HD22	1:25:B:CYS:HA	9	0.13
(1,643)	1:42:B:LEU:HD23	1:25:B:CYS:HA	9	0.13
(1,634)	1:35:B:SER:HB2	1:31:B:SER:HB2	6	0.13
(1,634)	1:35:B:SER:HB2	1:31:B:SER:HB2	10	0.13
(1,608)	1:59:B:LYS:H	1:58:B:LEU:HB3	7	0.13
(1,608)	1:59:B:LYS:H	1:58:B:LEU:HB3	11	0.13
(1,608)	1:59:B:LYS:H	1:58:B:LEU:HB3	15	0.13
(1,605)	1:46:B:ARG:HG2	1:39:B:SER:HA	8	0.13
(1,605)	1:46:B:ARG:HG3	1:39:B:SER:HA	8	0.13
(1,599)	1:61:B:PHE:HB3	1:57:B:ARG:HA	3	0.13
(1,593)	1:55:B:HIS:HD2	1:56:B:PHE:HA	7	0.13
(1,591)	1:56:B:PHE:HE1	1:25:B:CYS:HA	16	0.13
(1,591)	1:56:B:PHE:HE2	1:25:B:CYS:HA	16	0.13
(1,589)	1:56:B:PHE:HE1	1:60:B:HIS:HD2	2	0.13
(1,589)	1:56:B:PHE:HE2	1:60:B:HIS:HD2	2	0.13
(1,575)	1:37:B:GLU:HA	1:48:B:PRO:HA	3	0.13
(1,575)	1:37:B:GLU:HA	1:48:B:PRO:HA	5	0.13
(1,571)	1:34:B:ALA:HA	1:36:B:TYR:HD1	7	0.13
(1,571)	1:34:B:ALA:HA	1:36:B:TYR:HD2	7	0.13
(1,571)	1:34:B:ALA:HA	1:36:B:TYR:HD1	13	0.13
(1,571)	1:34:B:ALA:HA	1:36:B:TYR:HD2	13	0.13
(1,571)	1:34:B:ALA:HA	1:36:B:TYR:HD1	15	0.13
(1,571)	1:34:B:ALA:HA	1:36:B:TYR:HD2	15	0.13
(1,548)	1:60:A:HIS:H	1:59:A:LYS:HA	1	0.13
(1,548)	1:60:A:HIS:H	1:59:A:LYS:HA	16	0.13
(1,544)	1:58:A:LEU:H	1:58:A:LEU:HA	11	0.13
(1,497)	1:32:A:ALA:H	1:31:A:SER:HB3	7	0.13
(1,497)	1:32:A:ALA:H	1:31:A:SER:HB3	10	0.13
(1,497)	1:32:A:ALA:H	1:31:A:SER:HB3	14	0.13
(1,497)	1:32:A:ALA:H	1:31:A:SER:HB3	19	0.13
(1,491)	1:30:A:PHE:H	1:29:A:LEU:HB2	4	0.13
(1,491)	1:30:A:PHE:H	1:29:A:LEU:HB2	12	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,488)	1:28:A:VAL:H	1:27:A:GLU:HG2	9	0.13
(1,488)	1:28:A:VAL:H	1:27:A:GLU:HG3	9	0.13
(1,488)	1:28:A:VAL:H	1:27:A:GLU:HG2	11	0.13
(1,488)	1:28:A:VAL:H	1:27:A:GLU:HG3	11	0.13
(1,488)	1:28:A:VAL:H	1:27:A:GLU:HG2	16	0.13
(1,488)	1:28:A:VAL:H	1:27:A:GLU:HG3	16	0.13
(1,488)	1:28:A:VAL:H	1:27:A:GLU:HG2	20	0.13
(1,488)	1:28:A:VAL:H	1:27:A:GLU:HG3	20	0.13
(1,465)	1:59:A:LYS:HE3	1:59:A:LYS:HG2	3	0.13
(1,465)	1:59:A:LYS:HE3	1:59:A:LYS:HG3	3	0.13
(1,465)	1:59:A:LYS:HE3	1:59:A:LYS:HG2	4	0.13
(1,465)	1:59:A:LYS:HE3	1:59:A:LYS:HG3	4	0.13
(1,465)	1:59:A:LYS:HE3	1:59:A:LYS:HG2	12	0.13
(1,465)	1:59:A:LYS:HE3	1:59:A:LYS:HG3	12	0.13
(1,465)	1:59:A:LYS:HE3	1:59:A:LYS:HG2	14	0.13
(1,465)	1:59:A:LYS:HE3	1:59:A:LYS:HG3	14	0.13
(1,452)	1:54:A:GLU:HB3	1:54:A:GLU:HG2	5	0.13
(1,452)	1:54:A:GLU:HB3	1:54:A:GLU:HG3	5	0.13
(1,451)	1:52:A:TYR:HA	1:55:A:HIS:HB2	17	0.13
(1,446)	1:49:A:LEU:HD21	1:36:A:TYR:HD1	9	0.13
(1,446)	1:49:A:LEU:HD21	1:36:A:TYR:HD2	9	0.13
(1,446)	1:49:A:LEU:HD22	1:36:A:TYR:HD1	9	0.13
(1,446)	1:49:A:LEU:HD22	1:36:A:TYR:HD2	9	0.13
(1,446)	1:49:A:LEU:HD23	1:36:A:TYR:HD1	9	0.13
(1,446)	1:49:A:LEU:HD23	1:36:A:TYR:HD2	9	0.13
(1,446)	1:49:A:LEU:HD21	1:36:A:TYR:HD1	12	0.13
(1,446)	1:49:A:LEU:HD21	1:36:A:TYR:HD2	12	0.13
(1,446)	1:49:A:LEU:HD22	1:36:A:TYR:HD1	12	0.13
(1,446)	1:49:A:LEU:HD22	1:36:A:TYR:HD2	12	0.13
(1,446)	1:49:A:LEU:HD23	1:36:A:TYR:HD1	12	0.13
(1,446)	1:49:A:LEU:HD23	1:36:A:TYR:HD2	12	0.13
(1,432)	1:45:A:GLN:HB2	1:46:A:ARG:H	10	0.13
(1,432)	1:45:A:GLN:HB3	1:46:A:ARG:H	10	0.13
(1,428)	1:25:A:CYS:HB2	1:42:A:LEU:HD11	8	0.13
(1,428)	1:25:A:CYS:HB2	1:42:A:LEU:HD12	8	0.13
(1,428)	1:25:A:CYS:HB2	1:42:A:LEU:HD13	8	0.13
(1,361)	1:24:A:ARG:H	1:23:A:LEU:HB3	1	0.13
(1,361)	1:24:A:ARG:H	1:23:A:LEU:HB3	4	0.13
(1,328)	1:57:A:ARG:HG2	1:57:A:ARG:HA	6	0.13
(1,328)	1:57:A:ARG:HG2	1:57:A:ARG:HA	8	0.13
(1,328)	1:57:A:ARG:HG2	1:57:A:ARG:HA	9	0.13
(1,322)	1:28:A:VAL:H	1:27:A:GLU:HB2	12	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,322)	1:28:A:VAL:H	1:27:A:GLU:HB3	12	0.13
(1,322)	1:28:A:VAL:H	1:27:A:GLU:HB2	19	0.13
(1,322)	1:28:A:VAL:H	1:27:A:GLU:HB3	19	0.13
(1,319)	1:47:A:LEU:H	1:46:A:ARG:HG2	2	0.13
(1,319)	1:47:A:LEU:H	1:46:A:ARG:HG3	2	0.13
(1,319)	1:47:A:LEU:H	1:46:A:ARG:HG2	5	0.13
(1,319)	1:47:A:LEU:H	1:46:A:ARG:HG3	5	0.13
(1,319)	1:47:A:LEU:H	1:46:A:ARG:HG2	11	0.13
(1,319)	1:47:A:LEU:H	1:46:A:ARG:HG3	11	0.13
(1,319)	1:47:A:LEU:H	1:46:A:ARG:HG2	12	0.13
(1,319)	1:47:A:LEU:H	1:46:A:ARG:HG3	12	0.13
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD21	19	0.13
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD22	19	0.13
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD23	19	0.13
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD21	20	0.13
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD22	20	0.13
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD23	20	0.13
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD11	17	0.13
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD12	17	0.13
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD13	17	0.13
(1,249)	1:42:A:LEU:HD11	1:56:A:PHE:HZ	19	0.13
(1,249)	1:42:A:LEU:HD12	1:56:A:PHE:HZ	19	0.13
(1,249)	1:42:A:LEU:HD13	1:56:A:PHE:HZ	19	0.13
(1,248)	1:56:A:PHE:HE1	1:61:A:PHE:HB3	14	0.13
(1,248)	1:56:A:PHE:HE2	1:61:A:PHE:HB3	14	0.13
(1,248)	1:56:A:PHE:HE1	1:61:A:PHE:HB3	15	0.13
(1,248)	1:56:A:PHE:HE2	1:61:A:PHE:HB3	15	0.13
(1,248)	1:56:A:PHE:HE1	1:61:A:PHE:HB3	17	0.13
(1,248)	1:56:A:PHE:HE2	1:61:A:PHE:HB3	17	0.13
(1,246)	1:40:A:CYS:HB3	1:52:A:TYR:HE1	2	0.13
(1,246)	1:40:A:CYS:HB3	1:52:A:TYR:HE2	2	0.13
(1,243)	1:61:A:PHE:H	1:57:A:ARG:HA	5	0.13
(1,243)	1:61:A:PHE:H	1:57:A:ARG:HA	20	0.13
(1,240)	1:30:A:PHE:HE1	1:32:A:ALA:HA	16	0.13
(1,240)	1:30:A:PHE:HE2	1:32:A:ALA:HA	16	0.13
(1,239)	1:30:A:PHE:HE1	1:34:A:ALA:HA	1	0.13
(1,239)	1:30:A:PHE:HE2	1:34:A:ALA:HA	1	0.13
(1,239)	1:30:A:PHE:HE1	1:34:A:ALA:HA	8	0.13
(1,239)	1:30:A:PHE:HE2	1:34:A:ALA:HA	8	0.13
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD11	10	0.13
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD12	10	0.13
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD13	10	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD11	13	0.13
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD12	13	0.13
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD13	13	0.13
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD11	16	0.13
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD12	16	0.13
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD13	16	0.13
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD11	4	0.13
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD12	4	0.13
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD13	4	0.13
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD11	6	0.13
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD12	6	0.13
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD13	6	0.13
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD11	11	0.13
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD12	11	0.13
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD13	11	0.13
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD11	12	0.13
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD12	12	0.13
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD13	12	0.13
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD11	14	0.13
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD12	14	0.13
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD13	14	0.13
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD11	15	0.13
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD12	15	0.13
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD13	15	0.13
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD11	20	0.13
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD12	20	0.13
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD13	20	0.13
(1,162)	1:42:A:LEU:HD21	1:25:A:CYS:HA	13	0.13
(1,162)	1:42:A:LEU:HD22	1:25:A:CYS:HA	13	0.13
(1,162)	1:42:A:LEU:HD23	1:25:A:CYS:HA	13	0.13
(1,153)	1:35:A:SER:HB2	1:31:A:SER:HB2	1	0.13
(1,153)	1:35:A:SER:HB2	1:31:A:SER:HB2	3	0.13
(1,153)	1:35:A:SER:HB2	1:31:A:SER:HB2	5	0.13
(1,153)	1:35:A:SER:HB2	1:31:A:SER:HB2	6	0.13
(1,153)	1:35:A:SER:HB2	1:31:A:SER:HB2	7	0.13
(1,153)	1:35:A:SER:HB2	1:31:A:SER:HB2	8	0.13
(1,153)	1:35:A:SER:HB2	1:31:A:SER:HB2	9	0.13
(1,153)	1:35:A:SER:HB2	1:31:A:SER:HB2	11	0.13
(1,153)	1:35:A:SER:HB2	1:31:A:SER:HB2	12	0.13
(1,153)	1:35:A:SER:HB2	1:31:A:SER:HB2	13	0.13
(1,153)	1:35:A:SER:HB2	1:31:A:SER:HB2	17	0.13
(1,153)	1:35:A:SER:HB2	1:31:A:SER:HB2	19	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,127)	1:59:A:LYS:H	1:58:A:LEU:HB3	8	0.13
(1,127)	1:59:A:LYS:H	1:58:A:LEU:HB3	13	0.13
(1,127)	1:59:A:LYS:H	1:58:A:LEU:HB3	16	0.13
(1,121)	1:61:A:PHE:HB3	1:56:A:PHE:HD1	6	0.13
(1,121)	1:61:A:PHE:HB3	1:56:A:PHE:HD2	6	0.13
(1,110)	1:56:A:PHE:HE1	1:25:A:CYS:HA	16	0.13
(1,110)	1:56:A:PHE:HE2	1:25:A:CYS:HA	16	0.13
(1,94)	1:37:A:GLU:HA	1:48:A:PRO:HA	5	0.13
(1,90)	1:34:A:ALA:HA	1:36:A:TYR:HD1	10	0.13
(1,90)	1:34:A:ALA:HA	1:36:A:TYR:HD2	10	0.13
(1,90)	1:34:A:ALA:HA	1:36:A:TYR:HD1	14	0.13
(1,90)	1:34:A:ALA:HA	1:36:A:TYR:HD2	14	0.13
(1,90)	1:34:A:ALA:HA	1:36:A:TYR:HD1	16	0.13
(1,90)	1:34:A:ALA:HA	1:36:A:TYR:HD2	16	0.13
(1,85)	1:20:A:TYR:HE1	1:61:A:PHE:HA	14	0.13
(1,85)	1:20:A:TYR:HE2	1:61:A:PHE:HA	14	0.13
(1,78)	1:36:B:TYR:HE1	1:56:A:PHE:H	9	0.13
(1,78)	1:36:B:TYR:HE2	1:56:A:PHE:H	9	0.13
(1,77)	1:36:A:TYR:HE1	1:56:B:PHE:H	3	0.13
(1,77)	1:36:A:TYR:HE2	1:56:B:PHE:H	3	0.13
(1,77)	1:36:A:TYR:HE1	1:56:B:PHE:H	18	0.13
(1,77)	1:36:A:TYR:HE2	1:56:B:PHE:H	18	0.13
(1,76)	1:22:B:ASN:H	1:32:A:ALA:H	10	0.13
(1,76)	1:22:B:ASN:H	1:32:A:ALA:H	14	0.13
(1,76)	1:22:B:ASN:H	1:32:A:ALA:H	20	0.13
(1,72)	1:32:B:ALA:H	1:20:A:TYR:HB3	7	0.13
(1,72)	1:32:B:ALA:H	1:20:A:TYR:HB3	10	0.13
(1,71)	1:32:A:ALA:H	1:20:B:TYR:HB3	3	0.13
(1,71)	1:32:A:ALA:H	1:20:B:TYR:HB3	13	0.13
(1,70)	1:32:B:ALA:H	1:20:A:TYR:HB2	1	0.13
(1,70)	1:32:B:ALA:H	1:20:A:TYR:HB2	7	0.13
(1,70)	1:32:B:ALA:H	1:20:A:TYR:HB2	12	0.13
(1,69)	1:32:A:ALA:H	1:20:B:TYR:HB2	20	0.13
(1,58)	1:26:B:GLY:H	1:28:A:VAL:H	10	0.13
(1,58)	1:26:B:GLY:H	1:28:A:VAL:H	14	0.13
(1,57)	1:26:A:GLY:H	1:28:B:VAL:H	11	0.13
(1,54)	1:25:B:CYS:H	1:28:A:VAL:HB	2	0.13
(1,54)	1:25:B:CYS:H	1:28:A:VAL:HB	19	0.13
(1,46)	1:49:B:LEU:HD11	1:53:A:PRO:HD2	10	0.13
(1,46)	1:49:B:LEU:HD12	1:53:A:PRO:HD2	10	0.13
(1,46)	1:49:B:LEU:HD13	1:53:A:PRO:HD2	10	0.13
(1,46)	1:49:B:LEU:HD11	1:53:A:PRO:HD2	15	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,46)	1:49:B:LEU:HD12	1:53:A:PRO:HD2	15	0.13
(1,46)	1:49:B:LEU:HD13	1:53:A:PRO:HD2	15	0.13
(1,46)	1:49:B:LEU:HD11	1:53:A:PRO:HD2	20	0.13
(1,46)	1:49:B:LEU:HD12	1:53:A:PRO:HD2	20	0.13
(1,46)	1:49:B:LEU:HD13	1:53:A:PRO:HD2	20	0.13
(1,43)	1:29:B:LEU:HD11	1:25:A:CYS:H	1	0.13
(1,43)	1:29:B:LEU:HD12	1:25:A:CYS:H	1	0.13
(1,43)	1:29:B:LEU:HD13	1:25:A:CYS:H	1	0.13
(1,43)	1:29:B:LEU:HD21	1:25:A:CYS:H	1	0.13
(1,43)	1:29:B:LEU:HD22	1:25:A:CYS:H	1	0.13
(1,43)	1:29:B:LEU:HD23	1:25:A:CYS:H	1	0.13
(1,43)	1:29:B:LEU:HD11	1:25:A:CYS:H	8	0.13
(1,43)	1:29:B:LEU:HD12	1:25:A:CYS:H	8	0.13
(1,43)	1:29:B:LEU:HD13	1:25:A:CYS:H	8	0.13
(1,43)	1:29:B:LEU:HD21	1:25:A:CYS:H	8	0.13
(1,43)	1:29:B:LEU:HD22	1:25:A:CYS:H	8	0.13
(1,43)	1:29:B:LEU:HD23	1:25:A:CYS:H	8	0.13
(1,42)	1:22:B:ASN:HB2	1:29:A:LEU:HD21	6	0.13
(1,42)	1:22:B:ASN:HB2	1:29:A:LEU:HD22	6	0.13
(1,42)	1:22:B:ASN:HB2	1:29:A:LEU:HD23	6	0.13
(1,42)	1:22:B:ASN:HB2	1:29:A:LEU:HD21	15	0.13
(1,42)	1:22:B:ASN:HB2	1:29:A:LEU:HD22	15	0.13
(1,42)	1:22:B:ASN:HB2	1:29:A:LEU:HD23	15	0.13
(1,42)	1:22:B:ASN:HB2	1:29:A:LEU:HD21	17	0.13
(1,42)	1:22:B:ASN:HB2	1:29:A:LEU:HD22	17	0.13
(1,42)	1:22:B:ASN:HB2	1:29:A:LEU:HD23	17	0.13
(1,41)	1:22:A:ASN:HB2	1:29:B:LEU:HD21	17	0.13
(1,41)	1:22:A:ASN:HB2	1:29:B:LEU:HD22	17	0.13
(1,41)	1:22:A:ASN:HB2	1:29:B:LEU:HD23	17	0.13
(1,34)	1:36:B:TYR:HE1	1:56:A:PHE:HD1	8	0.13
(1,34)	1:36:B:TYR:HE1	1:56:A:PHE:HD2	8	0.13
(1,34)	1:36:B:TYR:HE2	1:56:A:PHE:HD1	8	0.13
(1,34)	1:36:B:TYR:HE2	1:56:A:PHE:HD2	8	0.13
(1,33)	1:36:A:TYR:HE1	1:56:B:PHE:HD1	14	0.13
(1,33)	1:36:A:TYR:HE1	1:56:B:PHE:HD2	14	0.13
(1,33)	1:36:A:TYR:HE2	1:56:B:PHE:HD1	14	0.13
(1,33)	1:36:A:TYR:HE2	1:56:B:PHE:HD2	14	0.13
(1,19)	1:21:A:HIS:HA	1:31:B:SER:HA	4	0.13
(1,19)	1:21:A:HIS:HA	1:31:B:SER:HA	5	0.13
(1,11)	1:29:A:LEU:HD21	1:24:B:ARG:HA	5	0.13
(1,11)	1:29:A:LEU:HD22	1:24:B:ARG:HA	5	0.13
(1,11)	1:29:A:LEU:HD23	1:24:B:ARG:HA	5	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,11)	1:29:A:LEU:HD21	1:24:B:ARG:HA	6	0.13
(1,11)	1:29:A:LEU:HD22	1:24:B:ARG:HA	6	0.13
(1,11)	1:29:A:LEU:HD23	1:24:B:ARG:HA	6	0.13
(1,11)	1:29:A:LEU:HD21	1:24:B:ARG:HA	14	0.13
(1,11)	1:29:A:LEU:HD22	1:24:B:ARG:HA	14	0.13
(1,11)	1:29:A:LEU:HD23	1:24:B:ARG:HA	14	0.13
(1,3)	1:49:A:LEU:HD11	1:50:B:ASP:HA	2	0.13
(1,3)	1:49:A:LEU:HD12	1:50:B:ASP:HA	2	0.13
(1,3)	1:49:A:LEU:HD13	1:50:B:ASP:HA	2	0.13
(1,3)	1:49:A:LEU:HD11	1:50:B:ASP:HA	8	0.13
(1,3)	1:49:A:LEU:HD12	1:50:B:ASP:HA	8	0.13
(1,3)	1:49:A:LEU:HD13	1:50:B:ASP:HA	8	0.13
(1,3)	1:49:A:LEU:HD11	1:50:B:ASP:HA	14	0.13
(1,3)	1:49:A:LEU:HD12	1:50:B:ASP:HA	14	0.13
(1,3)	1:49:A:LEU:HD13	1:50:B:ASP:HA	14	0.13
(2,6)	1:40:B:CYS:SG	2:101:B:ZN:ZN	14	0.12
(2,5)	1:43:B:CYS:SG	2:101:B:ZN:ZN	7	0.12
(2,5)	1:43:B:CYS:SG	2:101:B:ZN:ZN	9	0.12
(2,5)	1:43:B:CYS:SG	2:101:B:ZN:ZN	14	0.12
(2,5)	1:43:B:CYS:SG	2:101:B:ZN:ZN	17	0.12
(2,2)	1:40:A:CYS:SG	2:101:A:ZN:ZN	15	0.12
(2,2)	1:40:A:CYS:SG	2:101:A:ZN:ZN	16	0.12
(2,1)	1:43:A:CYS:SG	2:101:A:ZN:ZN	8	0.12
(2,1)	1:43:A:CYS:SG	2:101:A:ZN:ZN	13	0.12
(1,1039)	1:62:B:THR:H	1:62:B:THR:HB	10	0.12
(1,1039)	1:62:B:THR:H	1:62:B:THR:HB	12	0.12
(1,1039)	1:62:B:THR:H	1:62:B:THR:HB	17	0.12
(1,1029)	1:60:B:HIS:H	1:59:B:LYS:HA	4	0.12
(1,1029)	1:60:B:HIS:H	1:59:B:LYS:HA	5	0.12
(1,1029)	1:60:B:HIS:H	1:59:B:LYS:HA	7	0.12
(1,1029)	1:60:B:HIS:H	1:59:B:LYS:HA	9	0.12
(1,1029)	1:60:B:HIS:H	1:59:B:LYS:HA	16	0.12
(1,1029)	1:60:B:HIS:H	1:59:B:LYS:HA	17	0.12
(1,1025)	1:58:B:LEU:H	1:58:B:LEU:HA	11	0.12
(1,969)	1:28:B:VAL:H	1:27:B:GLU:HG2	12	0.12
(1,969)	1:28:B:VAL:H	1:27:B:GLU:HG3	12	0.12
(1,969)	1:28:B:VAL:H	1:27:B:GLU:HG2	13	0.12
(1,969)	1:28:B:VAL:H	1:27:B:GLU:HG3	13	0.12
(1,969)	1:28:B:VAL:H	1:27:B:GLU:HG2	15	0.12
(1,969)	1:28:B:VAL:H	1:27:B:GLU:HG3	15	0.12
(1,969)	1:28:B:VAL:H	1:27:B:GLU:HG2	17	0.12
(1,969)	1:28:B:VAL:H	1:27:B:GLU:HG3	17	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,969)	1:28:B:VAL:H	1:27:B:GLU:HG2	20	0.12
(1,969)	1:28:B:VAL:H	1:27:B:GLU:HG3	20	0.12
(1,937)	1:57:B:ARG:HD3	1:57:B:ARG:HG2	2	0.12
(1,937)	1:57:B:ARG:HD3	1:57:B:ARG:HG2	4	0.12
(1,937)	1:57:B:ARG:HD3	1:57:B:ARG:HG2	9	0.12
(1,937)	1:57:B:ARG:HD3	1:57:B:ARG:HG2	17	0.12
(1,937)	1:57:B:ARG:HD3	1:57:B:ARG:HG2	18	0.12
(1,909)	1:25:B:CYS:HB2	1:42:B:LEU:HD11	8	0.12
(1,909)	1:25:B:CYS:HB2	1:42:B:LEU:HD12	8	0.12
(1,909)	1:25:B:CYS:HB2	1:42:B:LEU:HD13	8	0.12
(1,909)	1:25:B:CYS:HB2	1:42:B:LEU:HD11	9	0.12
(1,909)	1:25:B:CYS:HB2	1:42:B:LEU:HD12	9	0.12
(1,909)	1:25:B:CYS:HB2	1:42:B:LEU:HD13	9	0.12
(1,909)	1:25:B:CYS:HB2	1:42:B:LEU:HD11	19	0.12
(1,909)	1:25:B:CYS:HB2	1:42:B:LEU:HD12	19	0.12
(1,909)	1:25:B:CYS:HB2	1:42:B:LEU:HD13	19	0.12
(1,848)	1:35:B:SER:H	1:35:B:SER:HB3	2	0.12
(1,848)	1:35:B:SER:H	1:35:B:SER:HB3	9	0.12
(1,848)	1:35:B:SER:H	1:35:B:SER:HB3	14	0.12
(1,848)	1:35:B:SER:H	1:35:B:SER:HB3	17	0.12
(1,842)	1:24:B:ARG:H	1:23:B:LEU:HB3	20	0.12
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD11	6	0.12
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD12	6	0.12
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD13	6	0.12
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD21	6	0.12
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD22	6	0.12
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD23	6	0.12
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD11	7	0.12
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD12	7	0.12
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD13	7	0.12
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD21	7	0.12
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD22	7	0.12
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD23	7	0.12
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD11	12	0.12
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD12	12	0.12
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD13	12	0.12
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD21	12	0.12
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD22	12	0.12
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD23	12	0.12
(1,809)	1:57:B:ARG:HG2	1:57:B:ARG:HA	9	0.12
(1,809)	1:57:B:ARG:HG2	1:57:B:ARG:HA	20	0.12
(1,803)	1:28:B:VAL:H	1:27:B:GLU:HB2	8	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,803)	1:28:B:VAL:H	1:27:B:GLU:HB3	8	0.12
(1,803)	1:28:B:VAL:H	1:27:B:GLU:HB2	10	0.12
(1,803)	1:28:B:VAL:H	1:27:B:GLU:HB3	10	0.12
(1,800)	1:47:B:LEU:H	1:46:B:ARG:HG2	10	0.12
(1,800)	1:47:B:LEU:H	1:46:B:ARG:HG3	10	0.12
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD21	3	0.12
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD22	3	0.12
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD23	3	0.12
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD21	13	0.12
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD22	13	0.12
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD23	13	0.12
(1,782)	1:43:B:CYS:H	1:40:B:CYS:HB2	6	0.12
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD11	18	0.12
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD12	18	0.12
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD13	18	0.12
(1,730)	1:42:B:LEU:HD11	1:56:B:PHE:HZ	16	0.12
(1,730)	1:42:B:LEU:HD12	1:56:B:PHE:HZ	16	0.12
(1,730)	1:42:B:LEU:HD13	1:56:B:PHE:HZ	16	0.12
(1,729)	1:56:B:PHE:HE1	1:61:B:PHE:HB3	11	0.12
(1,729)	1:56:B:PHE:HE2	1:61:B:PHE:HB3	11	0.12
(1,729)	1:56:B:PHE:HE1	1:61:B:PHE:HB3	13	0.12
(1,729)	1:56:B:PHE:HE2	1:61:B:PHE:HB3	13	0.12
(1,729)	1:56:B:PHE:HE1	1:61:B:PHE:HB3	14	0.12
(1,729)	1:56:B:PHE:HE2	1:61:B:PHE:HB3	14	0.12
(1,729)	1:56:B:PHE:HE1	1:61:B:PHE:HB3	18	0.12
(1,729)	1:56:B:PHE:HE2	1:61:B:PHE:HB3	18	0.12
(1,729)	1:56:B:PHE:HE1	1:61:B:PHE:HB3	20	0.12
(1,729)	1:56:B:PHE:HE2	1:61:B:PHE:HB3	20	0.12
(1,725)	1:60:B:HIS:H	1:57:B:ARG:HA	15	0.12
(1,724)	1:61:B:PHE:H	1:57:B:ARG:HA	9	0.12
(1,724)	1:61:B:PHE:H	1:57:B:ARG:HA	11	0.12
(1,721)	1:30:B:PHE:HE1	1:32:B:ALA:HA	3	0.12
(1,721)	1:30:B:PHE:HE2	1:32:B:ALA:HA	3	0.12
(1,720)	1:30:B:PHE:HE1	1:34:B:ALA:HA	1	0.12
(1,720)	1:30:B:PHE:HE2	1:34:B:ALA:HA	1	0.12
(1,720)	1:30:B:PHE:HE1	1:34:B:ALA:HA	5	0.12
(1,720)	1:30:B:PHE:HE2	1:34:B:ALA:HA	5	0.12
(1,720)	1:30:B:PHE:HE1	1:34:B:ALA:HA	7	0.12
(1,720)	1:30:B:PHE:HE2	1:34:B:ALA:HA	7	0.12
(1,720)	1:30:B:PHE:HE1	1:34:B:ALA:HA	11	0.12
(1,720)	1:30:B:PHE:HE2	1:34:B:ALA:HA	11	0.12
(1,720)	1:30:B:PHE:HE1	1:34:B:ALA:HA	12	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,720)	1:30:B:PHE:HE2	1:34:B:ALA:HA	12	0.12
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD11	13	0.12
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD12	13	0.12
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD13	13	0.12
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD11	16	0.12
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD12	16	0.12
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD13	16	0.12
(1,634)	1:35:B:SER:HB2	1:31:B:SER:HB2	8	0.12
(1,634)	1:35:B:SER:HB2	1:31:B:SER:HB2	13	0.12
(1,634)	1:35:B:SER:HB2	1:31:B:SER:HB2	19	0.12
(1,627)	1:39:B:SER:HA	1:46:B:ARG:HA	8	0.12
(1,599)	1:61:B:PHE:HB3	1:57:B:ARG:HA	10	0.12
(1,599)	1:61:B:PHE:HB3	1:57:B:ARG:HA	12	0.12
(1,593)	1:55:B:HIS:HD2	1:56:B:PHE:HA	1	0.12
(1,593)	1:55:B:HIS:HD2	1:56:B:PHE:HA	8	0.12
(1,575)	1:37:B:GLU:HA	1:48:B:PRO:HA	15	0.12
(1,574)	1:49:B:LEU:HA	1:38:B:VAL:HB	7	0.12
(1,574)	1:49:B:LEU:HA	1:38:B:VAL:HB	14	0.12
(1,548)	1:60:A:HIS:H	1:59:A:LYS:HA	2	0.12
(1,548)	1:60:A:HIS:H	1:59:A:LYS:HA	3	0.12
(1,548)	1:60:A:HIS:H	1:59:A:LYS:HA	4	0.12
(1,548)	1:60:A:HIS:H	1:59:A:LYS:HA	6	0.12
(1,548)	1:60:A:HIS:H	1:59:A:LYS:HA	8	0.12
(1,548)	1:60:A:HIS:H	1:59:A:LYS:HA	9	0.12
(1,548)	1:60:A:HIS:H	1:59:A:LYS:HA	13	0.12
(1,548)	1:60:A:HIS:H	1:59:A:LYS:HA	14	0.12
(1,548)	1:60:A:HIS:H	1:59:A:LYS:HA	15	0.12
(1,548)	1:60:A:HIS:H	1:59:A:LYS:HA	20	0.12
(1,544)	1:58:A:LEU:H	1:58:A:LEU:HA	12	0.12
(1,544)	1:58:A:LEU:H	1:58:A:LEU:HA	18	0.12
(1,543)	1:58:A:LEU:H	1:57:A:ARG:HB2	11	0.12
(1,543)	1:58:A:LEU:H	1:57:A:ARG:HB2	12	0.12
(1,504)	1:36:A:TYR:H	1:35:A:SER:HB3	18	0.12
(1,497)	1:32:A:ALA:H	1:31:A:SER:HB3	6	0.12
(1,497)	1:32:A:ALA:H	1:31:A:SER:HB3	12	0.12
(1,488)	1:28:A:VAL:H	1:27:A:GLU:HG2	1	0.12
(1,488)	1:28:A:VAL:H	1:27:A:GLU:HG3	1	0.12
(1,488)	1:28:A:VAL:H	1:27:A:GLU:HG2	2	0.12
(1,488)	1:28:A:VAL:H	1:27:A:GLU:HG3	2	0.12
(1,488)	1:28:A:VAL:H	1:27:A:GLU:HG2	8	0.12
(1,488)	1:28:A:VAL:H	1:27:A:GLU:HG3	8	0.12
(1,476)	1:63:A:ASN:HA	1:63:A:ASN:HB3	17	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,464)	1:59:A:LYS:HE2	1:59:A:LYS:HG2	4	0.12
(1,464)	1:59:A:LYS:HE2	1:59:A:LYS:HG3	4	0.12
(1,464)	1:59:A:LYS:HE2	1:59:A:LYS:HG2	14	0.12
(1,464)	1:59:A:LYS:HE2	1:59:A:LYS:HG3	14	0.12
(1,456)	1:57:A:ARG:HD3	1:57:A:ARG:HG2	3	0.12
(1,456)	1:57:A:ARG:HD3	1:57:A:ARG:HG2	6	0.12
(1,456)	1:57:A:ARG:HD3	1:57:A:ARG:HG2	9	0.12
(1,456)	1:57:A:ARG:HD3	1:57:A:ARG:HG2	17	0.12
(1,453)	1:47:A:LEU:HD11	1:55:A:HIS:HB3	18	0.12
(1,453)	1:47:A:LEU:HD12	1:55:A:HIS:HB3	18	0.12
(1,453)	1:47:A:LEU:HD13	1:55:A:HIS:HB3	18	0.12
(1,446)	1:49:A:LEU:HD21	1:36:A:TYR:HD1	14	0.12
(1,446)	1:49:A:LEU:HD21	1:36:A:TYR:HD2	14	0.12
(1,446)	1:49:A:LEU:HD22	1:36:A:TYR:HD1	14	0.12
(1,446)	1:49:A:LEU:HD22	1:36:A:TYR:HD2	14	0.12
(1,446)	1:49:A:LEU:HD23	1:36:A:TYR:HD1	14	0.12
(1,446)	1:49:A:LEU:HD23	1:36:A:TYR:HD2	14	0.12
(1,428)	1:25:A:CYS:HB2	1:42:A:LEU:HD11	4	0.12
(1,428)	1:25:A:CYS:HB2	1:42:A:LEU:HD12	4	0.12
(1,428)	1:25:A:CYS:HB2	1:42:A:LEU:HD13	4	0.12
(1,428)	1:25:A:CYS:HB2	1:42:A:LEU:HD11	18	0.12
(1,428)	1:25:A:CYS:HB2	1:42:A:LEU:HD12	18	0.12
(1,428)	1:25:A:CYS:HB2	1:42:A:LEU:HD13	18	0.12
(1,428)	1:25:A:CYS:HB2	1:42:A:LEU:HD11	20	0.12
(1,428)	1:25:A:CYS:HB2	1:42:A:LEU:HD12	20	0.12
(1,428)	1:25:A:CYS:HB2	1:42:A:LEU:HD13	20	0.12
(1,367)	1:35:A:SER:H	1:35:A:SER:HB3	2	0.12
(1,367)	1:35:A:SER:H	1:35:A:SER:HB3	10	0.12
(1,367)	1:35:A:SER:H	1:35:A:SER:HB3	14	0.12
(1,367)	1:35:A:SER:H	1:35:A:SER:HB3	18	0.12
(1,361)	1:24:A:ARG:H	1:23:A:LEU:HB3	11	0.12
(1,350)	1:22:A:ASN:HA	1:22:A:ASN:HB2	18	0.12
(1,350)	1:22:A:ASN:HA	1:22:A:ASN:HB2	19	0.12
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD11	3	0.12
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD12	3	0.12
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD13	3	0.12
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD21	3	0.12
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD22	3	0.12
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD23	3	0.12
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD11	10	0.12
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD12	10	0.12
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD13	10	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD21	10	0.12
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD22	10	0.12
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD23	10	0.12
(1,328)	1:57:A:ARG:HG2	1:57:A:ARG:HA	7	0.12
(1,328)	1:57:A:ARG:HG2	1:57:A:ARG:HA	14	0.12
(1,328)	1:57:A:ARG:HG2	1:57:A:ARG:HA	20	0.12
(1,319)	1:47:A:LEU:H	1:46:A:ARG:HG2	7	0.12
(1,319)	1:47:A:LEU:H	1:46:A:ARG:HG3	7	0.12
(1,319)	1:47:A:LEU:H	1:46:A:ARG:HG2	20	0.12
(1,319)	1:47:A:LEU:H	1:46:A:ARG:HG3	20	0.12
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD21	3	0.12
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD22	3	0.12
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD23	3	0.12
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD21	14	0.12
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD22	14	0.12
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD23	14	0.12
(1,305)	1:38:A:VAL:H	1:38:A:VAL:HG11	1	0.12
(1,305)	1:38:A:VAL:H	1:38:A:VAL:HG12	1	0.12
(1,305)	1:38:A:VAL:H	1:38:A:VAL:HG13	1	0.12
(1,305)	1:38:A:VAL:H	1:38:A:VAL:HG11	17	0.12
(1,305)	1:38:A:VAL:H	1:38:A:VAL:HG12	17	0.12
(1,305)	1:38:A:VAL:H	1:38:A:VAL:HG13	17	0.12
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD11	1	0.12
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD12	1	0.12
(1,261)	1:50:A:ASP:H	1:49:A:LEU:HD13	1	0.12
(1,259)	1:50:A:ASP:H	1:48:A:PRO:HB2	15	0.12
(1,249)	1:42:A:LEU:HD11	1:56:A:PHE:HZ	20	0.12
(1,249)	1:42:A:LEU:HD12	1:56:A:PHE:HZ	20	0.12
(1,249)	1:42:A:LEU:HD13	1:56:A:PHE:HZ	20	0.12
(1,248)	1:56:A:PHE:HE1	1:61:A:PHE:HB3	7	0.12
(1,248)	1:56:A:PHE:HE2	1:61:A:PHE:HB3	7	0.12
(1,245)	1:52:A:TYR:HE1	1:40:A:CYS:HA	18	0.12
(1,245)	1:52:A:TYR:HE2	1:40:A:CYS:HA	18	0.12
(1,243)	1:61:A:PHE:H	1:57:A:ARG:HA	15	0.12
(1,240)	1:30:A:PHE:HE1	1:32:A:ALA:HA	14	0.12
(1,240)	1:30:A:PHE:HE2	1:32:A:ALA:HA	14	0.12
(1,239)	1:30:A:PHE:HE1	1:34:A:ALA:HA	6	0.12
(1,239)	1:30:A:PHE:HE2	1:34:A:ALA:HA	6	0.12
(1,239)	1:30:A:PHE:HE1	1:34:A:ALA:HA	7	0.12
(1,239)	1:30:A:PHE:HE2	1:34:A:ALA:HA	7	0.12
(1,239)	1:30:A:PHE:HE1	1:34:A:ALA:HA	11	0.12
(1,239)	1:30:A:PHE:HE2	1:34:A:ALA:HA	11	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD11	3	0.12
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD12	3	0.12
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD13	3	0.12
(1,182)	1:19:A:GLY:H	1:20:A:TYR:H	4	0.12
(1,182)	1:19:A:GLY:H	1:20:A:TYR:H	20	0.12
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD11	2	0.12
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD12	2	0.12
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD13	2	0.12
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD11	16	0.12
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD12	16	0.12
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD13	16	0.12
(1,153)	1:35:A:SER:HB2	1:31:A:SER:HB2	20	0.12
(1,144)	1:42:A:LEU:HD11	1:25:A:CYS:HA	7	0.12
(1,144)	1:42:A:LEU:HD12	1:25:A:CYS:HA	7	0.12
(1,144)	1:42:A:LEU:HD13	1:25:A:CYS:HA	7	0.12
(1,121)	1:61:A:PHE:HB3	1:56:A:PHE:HD1	5	0.12
(1,121)	1:61:A:PHE:HB3	1:56:A:PHE:HD2	5	0.12
(1,112)	1:55:A:HIS:HD2	1:56:A:PHE:HA	10	0.12
(1,112)	1:55:A:HIS:HD2	1:56:A:PHE:HA	15	0.12
(1,110)	1:56:A:PHE:HE1	1:25:A:CYS:HA	19	0.12
(1,110)	1:56:A:PHE:HE2	1:25:A:CYS:HA	19	0.12
(1,108)	1:56:A:PHE:HE1	1:60:A:HIS:HD2	3	0.12
(1,108)	1:56:A:PHE:HE2	1:60:A:HIS:HD2	3	0.12
(1,94)	1:37:A:GLU:HA	1:48:A:PRO:HA	2	0.12
(1,94)	1:37:A:GLU:HA	1:48:A:PRO:HA	14	0.12
(1,85)	1:20:A:TYR:HE1	1:61:A:PHE:HA	8	0.12
(1,85)	1:20:A:TYR:HE2	1:61:A:PHE:HA	8	0.12
(1,78)	1:36:B:TYR:HE1	1:56:A:PHE:H	5	0.12
(1,78)	1:36:B:TYR:HE2	1:56:A:PHE:H	5	0.12
(1,78)	1:36:B:TYR:HE1	1:56:A:PHE:H	8	0.12
(1,78)	1:36:B:TYR:HE2	1:56:A:PHE:H	8	0.12
(1,78)	1:36:B:TYR:HE1	1:56:A:PHE:H	10	0.12
(1,78)	1:36:B:TYR:HE2	1:56:A:PHE:H	10	0.12
(1,77)	1:36:A:TYR:HE1	1:56:B:PHE:H	8	0.12
(1,77)	1:36:A:TYR:HE2	1:56:B:PHE:H	8	0.12
(1,77)	1:36:A:TYR:HE1	1:56:B:PHE:H	13	0.12
(1,77)	1:36:A:TYR:HE2	1:56:B:PHE:H	13	0.12
(1,77)	1:36:A:TYR:HE1	1:56:B:PHE:H	20	0.12
(1,77)	1:36:A:TYR:HE2	1:56:B:PHE:H	20	0.12
(1,76)	1:22:B:ASN:H	1:32:A:ALA:H	1	0.12
(1,76)	1:22:B:ASN:H	1:32:A:ALA:H	13	0.12
(1,76)	1:22:B:ASN:H	1:32:A:ALA:H	16	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,76)	1:22:B:ASN:H	1:32:A:ALA:H	17	0.12
(1,75)	1:22:A:ASN:H	1:32:B:ALA:H	4	0.12
(1,75)	1:22:A:ASN:H	1:32:B:ALA:H	13	0.12
(1,72)	1:32:B:ALA:H	1:20:A:TYR:HB3	11	0.12
(1,71)	1:32:A:ALA:H	1:20:B:TYR:HB3	1	0.12
(1,71)	1:32:A:ALA:H	1:20:B:TYR:HB3	2	0.12
(1,71)	1:32:A:ALA:H	1:20:B:TYR:HB3	12	0.12
(1,70)	1:32:B:ALA:H	1:20:A:TYR:HB2	3	0.12
(1,70)	1:32:B:ALA:H	1:20:A:TYR:HB2	9	0.12
(1,70)	1:32:B:ALA:H	1:20:A:TYR:HB2	18	0.12
(1,69)	1:32:A:ALA:H	1:20:B:TYR:HB2	1	0.12
(1,69)	1:32:A:ALA:H	1:20:B:TYR:HB2	3	0.12
(1,58)	1:26:B:GLY:H	1:28:A:VAL:H	2	0.12
(1,58)	1:26:B:GLY:H	1:28:A:VAL:H	5	0.12
(1,58)	1:26:B:GLY:H	1:28:A:VAL:H	8	0.12
(1,58)	1:26:B:GLY:H	1:28:A:VAL:H	11	0.12
(1,58)	1:26:B:GLY:H	1:28:A:VAL:H	12	0.12
(1,58)	1:26:B:GLY:H	1:28:A:VAL:H	16	0.12
(1,58)	1:26:B:GLY:H	1:28:A:VAL:H	17	0.12
(1,57)	1:26:A:GLY:H	1:28:B:VAL:H	14	0.12
(1,57)	1:26:A:GLY:H	1:28:B:VAL:H	16	0.12
(1,57)	1:26:A:GLY:H	1:28:B:VAL:H	20	0.12
(1,53)	1:25:A:CYS:H	1:28:B:VAL:HB	3	0.12
(1,46)	1:49:B:LEU:HD11	1:53:A:PRO:HD2	16	0.12
(1,46)	1:49:B:LEU:HD12	1:53:A:PRO:HD2	16	0.12
(1,46)	1:49:B:LEU:HD13	1:53:A:PRO:HD2	16	0.12
(1,42)	1:22:B:ASN:HB2	1:29:A:LEU:HD21	18	0.12
(1,42)	1:22:B:ASN:HB2	1:29:A:LEU:HD22	18	0.12
(1,42)	1:22:B:ASN:HB2	1:29:A:LEU:HD23	18	0.12
(1,41)	1:22:A:ASN:HB2	1:29:B:LEU:HD21	13	0.12
(1,41)	1:22:A:ASN:HB2	1:29:B:LEU:HD22	13	0.12
(1,41)	1:22:A:ASN:HB2	1:29:B:LEU:HD23	13	0.12
(1,33)	1:36:A:TYR:HE1	1:56:B:PHE:HD1	8	0.12
(1,33)	1:36:A:TYR:HE1	1:56:B:PHE:HD2	8	0.12
(1,33)	1:36:A:TYR:HE2	1:56:B:PHE:HD1	8	0.12
(1,33)	1:36:A:TYR:HE2	1:56:B:PHE:HD2	8	0.12
(1,24)	1:30:B:PHE:HE1	1:61:A:PHE:HZ	16	0.12
(1,24)	1:30:B:PHE:HE2	1:61:A:PHE:HZ	16	0.12
(1,20)	1:21:B:HIS:HA	1:31:A:SER:HA	19	0.12
(1,13)	1:29:B:LEU:HD21	1:24:A:ARG:HA	1	0.12
(1,13)	1:29:B:LEU:HD22	1:24:A:ARG:HA	1	0.12
(1,13)	1:29:B:LEU:HD23	1:24:A:ARG:HA	1	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,13)	1:29:B:LEU:HD21	1:24:A:ARG:HA	4	0.12
(1,13)	1:29:B:LEU:HD22	1:24:A:ARG:HA	4	0.12
(1,13)	1:29:B:LEU:HD23	1:24:A:ARG:HA	4	0.12
(1,13)	1:29:B:LEU:HD21	1:24:A:ARG:HA	11	0.12
(1,13)	1:29:B:LEU:HD22	1:24:A:ARG:HA	11	0.12
(1,13)	1:29:B:LEU:HD23	1:24:A:ARG:HA	11	0.12
(1,11)	1:29:A:LEU:HD21	1:24:B:ARG:HA	20	0.12
(1,11)	1:29:A:LEU:HD22	1:24:B:ARG:HA	20	0.12
(1,11)	1:29:A:LEU:HD23	1:24:B:ARG:HA	20	0.12
(1,4)	1:49:B:LEU:HD11	1:50:A:ASP:HA	2	0.12
(1,4)	1:49:B:LEU:HD12	1:50:A:ASP:HA	2	0.12
(1,4)	1:49:B:LEU:HD13	1:50:A:ASP:HA	2	0.12
(1,4)	1:49:B:LEU:HD11	1:50:A:ASP:HA	4	0.12
(1,4)	1:49:B:LEU:HD12	1:50:A:ASP:HA	4	0.12
(1,4)	1:49:B:LEU:HD13	1:50:A:ASP:HA	4	0.12
(2,6)	1:40:B:CYS:SG	2:101:B:ZN:ZN	1	0.11
(2,6)	1:40:B:CYS:SG	2:101:B:ZN:ZN	6	0.11
(2,6)	1:40:B:CYS:SG	2:101:B:ZN:ZN	7	0.11
(2,6)	1:40:B:CYS:SG	2:101:B:ZN:ZN	8	0.11
(2,6)	1:40:B:CYS:SG	2:101:B:ZN:ZN	10	0.11
(2,6)	1:40:B:CYS:SG	2:101:B:ZN:ZN	12	0.11
(2,6)	1:40:B:CYS:SG	2:101:B:ZN:ZN	19	0.11
(2,5)	1:43:B:CYS:SG	2:101:B:ZN:ZN	1	0.11
(2,5)	1:43:B:CYS:SG	2:101:B:ZN:ZN	6	0.11
(2,5)	1:43:B:CYS:SG	2:101:B:ZN:ZN	8	0.11
(2,5)	1:43:B:CYS:SG	2:101:B:ZN:ZN	10	0.11
(2,5)	1:43:B:CYS:SG	2:101:B:ZN:ZN	12	0.11
(2,5)	1:43:B:CYS:SG	2:101:B:ZN:ZN	19	0.11
(2,3)	1:55:A:HIS:NE2	2:101:A:ZN:ZN	18	0.11
(2,2)	1:40:A:CYS:SG	2:101:A:ZN:ZN	10	0.11
(2,2)	1:40:A:CYS:SG	2:101:A:ZN:ZN	13	0.11
(2,1)	1:43:A:CYS:SG	2:101:A:ZN:ZN	6	0.11
(2,1)	1:43:A:CYS:SG	2:101:A:ZN:ZN	10	0.11
(1,1039)	1:62:B:THR:H	1:62:B:THR:HB	14	0.11
(1,1029)	1:60:B:HIS:H	1:59:B:LYS:HA	1	0.11
(1,1029)	1:60:B:HIS:H	1:59:B:LYS:HA	2	0.11
(1,1029)	1:60:B:HIS:H	1:59:B:LYS:HA	3	0.11
(1,1029)	1:60:B:HIS:H	1:59:B:LYS:HA	6	0.11
(1,1029)	1:60:B:HIS:H	1:59:B:LYS:HA	8	0.11
(1,1029)	1:60:B:HIS:H	1:59:B:LYS:HA	10	0.11
(1,1029)	1:60:B:HIS:H	1:59:B:LYS:HA	12	0.11
(1,1029)	1:60:B:HIS:H	1:59:B:LYS:HA	13	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1029)	1:60:B:HIS:H	1:59:B:LYS:HA	14	0.11
(1,1029)	1:60:B:HIS:H	1:59:B:LYS:HA	18	0.11
(1,1029)	1:60:B:HIS:H	1:59:B:LYS:HA	19	0.11
(1,1029)	1:60:B:HIS:H	1:59:B:LYS:HA	20	0.11
(1,1025)	1:58:B:LEU:H	1:58:B:LEU:HA	15	0.11
(1,1019)	1:52:B:TYR:H	1:51:B:GLY:HA2	1	0.11
(1,1019)	1:52:B:TYR:H	1:51:B:GLY:HA2	2	0.11
(1,1019)	1:52:B:TYR:H	1:51:B:GLY:HA2	3	0.11
(1,1019)	1:52:B:TYR:H	1:51:B:GLY:HA2	5	0.11
(1,1019)	1:52:B:TYR:H	1:51:B:GLY:HA2	6	0.11
(1,1019)	1:52:B:TYR:H	1:51:B:GLY:HA2	7	0.11
(1,1019)	1:52:B:TYR:H	1:51:B:GLY:HA2	8	0.11
(1,1019)	1:52:B:TYR:H	1:51:B:GLY:HA2	9	0.11
(1,1019)	1:52:B:TYR:H	1:51:B:GLY:HA2	10	0.11
(1,1019)	1:52:B:TYR:H	1:51:B:GLY:HA2	11	0.11
(1,1019)	1:52:B:TYR:H	1:51:B:GLY:HA2	12	0.11
(1,1019)	1:52:B:TYR:H	1:51:B:GLY:HA2	13	0.11
(1,1019)	1:52:B:TYR:H	1:51:B:GLY:HA2	16	0.11
(1,1019)	1:52:B:TYR:H	1:51:B:GLY:HA2	17	0.11
(1,1019)	1:52:B:TYR:H	1:51:B:GLY:HA2	18	0.11
(1,1019)	1:52:B:TYR:H	1:51:B:GLY:HA2	19	0.11
(1,1019)	1:52:B:TYR:H	1:51:B:GLY:HA2	20	0.11
(1,998)	1:41:B:LEU:H	1:26:B:GLY:HA3	6	0.11
(1,985)	1:36:B:TYR:H	1:35:B:SER:HB3	9	0.11
(1,985)	1:36:B:TYR:H	1:35:B:SER:HB3	15	0.11
(1,978)	1:32:B:ALA:H	1:31:B:SER:HB3	16	0.11
(1,969)	1:28:B:VAL:H	1:27:B:GLU:HG2	18	0.11
(1,969)	1:28:B:VAL:H	1:27:B:GLU:HG3	18	0.11
(1,957)	1:63:B:ASN:HA	1:63:B:ASN:HB3	8	0.11
(1,957)	1:63:B:ASN:HA	1:63:B:ASN:HB3	17	0.11
(1,945)	1:59:B:LYS:HE2	1:59:B:LYS:HG2	2	0.11
(1,945)	1:59:B:LYS:HE2	1:59:B:LYS:HG3	2	0.11
(1,945)	1:59:B:LYS:HE2	1:59:B:LYS:HG2	5	0.11
(1,945)	1:59:B:LYS:HE2	1:59:B:LYS:HG3	5	0.11
(1,945)	1:59:B:LYS:HE2	1:59:B:LYS:HG2	9	0.11
(1,945)	1:59:B:LYS:HE2	1:59:B:LYS:HG3	9	0.11
(1,937)	1:57:B:ARG:HD3	1:57:B:ARG:HG2	5	0.11
(1,937)	1:57:B:ARG:HD3	1:57:B:ARG:HG2	7	0.11
(1,934)	1:47:B:LEU:HD11	1:55:B:HIS:HB3	9	0.11
(1,934)	1:47:B:LEU:HD12	1:55:B:HIS:HB3	9	0.11
(1,934)	1:47:B:LEU:HD13	1:55:B:HIS:HB3	9	0.11
(1,934)	1:47:B:LEU:HD11	1:55:B:HIS:HB3	11	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,934)	1:47:B:LEU:HD12	1:55:B:HIS:HB3	11	0.11
(1,934)	1:47:B:LEU:HD13	1:55:B:HIS:HB3	11	0.11
(1,909)	1:25:B:CYS:HB2	1:42:B:LEU:HD11	18	0.11
(1,909)	1:25:B:CYS:HB2	1:42:B:LEU:HD12	18	0.11
(1,909)	1:25:B:CYS:HB2	1:42:B:LEU:HD13	18	0.11
(1,899)	1:37:B:GLU:HB3	1:37:B:GLU:HG2	1	0.11
(1,899)	1:37:B:GLU:HB3	1:37:B:GLU:HG3	1	0.11
(1,848)	1:35:B:SER:H	1:35:B:SER:HB3	4	0.11
(1,842)	1:24:B:ARG:H	1:23:B:LEU:HB3	4	0.11
(1,831)	1:22:B:ASN:HA	1:22:B:ASN:HB2	1	0.11
(1,831)	1:22:B:ASN:HA	1:22:B:ASN:HB2	2	0.11
(1,831)	1:22:B:ASN:HA	1:22:B:ASN:HB2	3	0.11
(1,831)	1:22:B:ASN:HA	1:22:B:ASN:HB2	4	0.11
(1,831)	1:22:B:ASN:HA	1:22:B:ASN:HB2	5	0.11
(1,831)	1:22:B:ASN:HA	1:22:B:ASN:HB2	6	0.11
(1,831)	1:22:B:ASN:HA	1:22:B:ASN:HB2	7	0.11
(1,831)	1:22:B:ASN:HA	1:22:B:ASN:HB2	8	0.11
(1,831)	1:22:B:ASN:HA	1:22:B:ASN:HB2	9	0.11
(1,831)	1:22:B:ASN:HA	1:22:B:ASN:HB2	10	0.11
(1,831)	1:22:B:ASN:HA	1:22:B:ASN:HB2	11	0.11
(1,831)	1:22:B:ASN:HA	1:22:B:ASN:HB2	12	0.11
(1,831)	1:22:B:ASN:HA	1:22:B:ASN:HB2	13	0.11
(1,831)	1:22:B:ASN:HA	1:22:B:ASN:HB2	14	0.11
(1,831)	1:22:B:ASN:HA	1:22:B:ASN:HB2	15	0.11
(1,831)	1:22:B:ASN:HA	1:22:B:ASN:HB2	16	0.11
(1,831)	1:22:B:ASN:HA	1:22:B:ASN:HB2	17	0.11
(1,831)	1:22:B:ASN:HA	1:22:B:ASN:HB2	18	0.11
(1,831)	1:22:B:ASN:HA	1:22:B:ASN:HB2	19	0.11
(1,831)	1:22:B:ASN:HA	1:22:B:ASN:HB2	20	0.11
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD11	4	0.11
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD12	4	0.11
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD13	4	0.11
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD21	4	0.11
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD22	4	0.11
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD23	4	0.11
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD11	5	0.11
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD12	5	0.11
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD13	5	0.11
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD21	5	0.11
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD22	5	0.11
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD23	5	0.11
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD11	19	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD12	19	0.11
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD13	19	0.11
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD21	19	0.11
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD22	19	0.11
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD23	19	0.11
(1,809)	1:57:B:ARG:HG2	1:57:B:ARG:HA	10	0.11
(1,806)	1:41:B:LEU:HB2	1:25:B:CYS:HA	10	0.11
(1,806)	1:41:B:LEU:HB2	1:25:B:CYS:HA	14	0.11
(1,802)	1:50:B:ASP:H	1:49:B:LEU:HG	3	0.11
(1,800)	1:47:B:LEU:H	1:46:B:ARG:HG2	20	0.11
(1,800)	1:47:B:LEU:H	1:46:B:ARG:HG3	20	0.11
(1,786)	1:38:B:VAL:H	1:38:B:VAL:HG11	13	0.11
(1,786)	1:38:B:VAL:H	1:38:B:VAL:HG12	13	0.11
(1,786)	1:38:B:VAL:H	1:38:B:VAL:HG13	13	0.11
(1,786)	1:38:B:VAL:H	1:38:B:VAL:HG11	15	0.11
(1,786)	1:38:B:VAL:H	1:38:B:VAL:HG12	15	0.11
(1,786)	1:38:B:VAL:H	1:38:B:VAL:HG13	15	0.11
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD11	13	0.11
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD12	13	0.11
(1,742)	1:50:B:ASP:H	1:49:B:LEU:HD13	13	0.11
(1,729)	1:56:B:PHE:HE1	1:61:B:PHE:HB3	3	0.11
(1,729)	1:56:B:PHE:HE2	1:61:B:PHE:HB3	3	0.11
(1,725)	1:60:B:HIS:H	1:57:B:ARG:HA	16	0.11
(1,720)	1:30:B:PHE:HE1	1:34:B:ALA:HA	8	0.11
(1,720)	1:30:B:PHE:HE2	1:34:B:ALA:HA	8	0.11
(1,720)	1:30:B:PHE:HE1	1:34:B:ALA:HA	18	0.11
(1,720)	1:30:B:PHE:HE2	1:34:B:ALA:HA	18	0.11
(1,720)	1:30:B:PHE:HE1	1:34:B:ALA:HA	19	0.11
(1,720)	1:30:B:PHE:HE2	1:34:B:ALA:HA	19	0.11
(1,717)	1:28:B:VAL:HG11	1:36:B:TYR:HD1	6	0.11
(1,717)	1:28:B:VAL:HG11	1:36:B:TYR:HD2	6	0.11
(1,717)	1:28:B:VAL:HG12	1:36:B:TYR:HD1	6	0.11
(1,717)	1:28:B:VAL:HG12	1:36:B:TYR:HD2	6	0.11
(1,717)	1:28:B:VAL:HG13	1:36:B:TYR:HD1	6	0.11
(1,717)	1:28:B:VAL:HG13	1:36:B:TYR:HD2	6	0.11
(1,717)	1:28:B:VAL:HG11	1:36:B:TYR:HD1	8	0.11
(1,717)	1:28:B:VAL:HG11	1:36:B:TYR:HD2	8	0.11
(1,717)	1:28:B:VAL:HG12	1:36:B:TYR:HD1	8	0.11
(1,717)	1:28:B:VAL:HG12	1:36:B:TYR:HD2	8	0.11
(1,717)	1:28:B:VAL:HG13	1:36:B:TYR:HD1	8	0.11
(1,717)	1:28:B:VAL:HG13	1:36:B:TYR:HD2	8	0.11
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD11	8	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD12	8	0.11
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD13	8	0.11
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD11	10	0.11
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD12	10	0.11
(1,714)	1:39:B:SER:HB3	1:29:B:LEU:HD13	10	0.11
(1,674)	1:55:B:HIS:HD2	1:55:B:HIS:HB2	11	0.11
(1,663)	1:19:B:GLY:H	1:20:B:TYR:H	2	0.11
(1,663)	1:19:B:GLY:H	1:20:B:TYR:H	7	0.11
(1,651)	1:55:B:HIS:H	1:47:B:LEU:HD11	11	0.11
(1,651)	1:55:B:HIS:H	1:47:B:LEU:HD12	11	0.11
(1,651)	1:55:B:HIS:H	1:47:B:LEU:HD13	11	0.11
(1,651)	1:55:B:HIS:H	1:47:B:LEU:HD11	14	0.11
(1,651)	1:55:B:HIS:H	1:47:B:LEU:HD12	14	0.11
(1,651)	1:55:B:HIS:H	1:47:B:LEU:HD13	14	0.11
(1,634)	1:35:B:SER:HB2	1:31:B:SER:HB2	5	0.11
(1,634)	1:35:B:SER:HB2	1:31:B:SER:HB2	7	0.11
(1,627)	1:39:B:SER:HA	1:46:B:ARG:HA	6	0.11
(1,627)	1:39:B:SER:HA	1:46:B:ARG:HA	13	0.11
(1,627)	1:39:B:SER:HA	1:46:B:ARG:HA	14	0.11
(1,625)	1:42:B:LEU:HD11	1:25:B:CYS:HA	10	0.11
(1,625)	1:42:B:LEU:HD12	1:25:B:CYS:HA	10	0.11
(1,625)	1:42:B:LEU:HD13	1:25:B:CYS:HA	10	0.11
(1,625)	1:42:B:LEU:HD11	1:25:B:CYS:HA	12	0.11
(1,625)	1:42:B:LEU:HD12	1:25:B:CYS:HA	12	0.11
(1,625)	1:42:B:LEU:HD13	1:25:B:CYS:HA	12	0.11
(1,625)	1:42:B:LEU:HD11	1:25:B:CYS:HA	13	0.11
(1,625)	1:42:B:LEU:HD12	1:25:B:CYS:HA	13	0.11
(1,625)	1:42:B:LEU:HD13	1:25:B:CYS:HA	13	0.11
(1,625)	1:42:B:LEU:HD11	1:25:B:CYS:HA	16	0.11
(1,625)	1:42:B:LEU:HD12	1:25:B:CYS:HA	16	0.11
(1,625)	1:42:B:LEU:HD13	1:25:B:CYS:HA	16	0.11
(1,608)	1:59:B:LYS:H	1:58:B:LEU:HB3	17	0.11
(1,602)	1:61:B:PHE:HB3	1:56:B:PHE:HD1	15	0.11
(1,602)	1:61:B:PHE:HB3	1:56:B:PHE:HD2	15	0.11
(1,599)	1:61:B:PHE:HB3	1:57:B:ARG:HA	19	0.11
(1,597)	1:38:B:VAL:HG21	1:52:B:TYR:HE1	4	0.11
(1,597)	1:38:B:VAL:HG21	1:52:B:TYR:HE2	4	0.11
(1,597)	1:38:B:VAL:HG22	1:52:B:TYR:HE1	4	0.11
(1,597)	1:38:B:VAL:HG22	1:52:B:TYR:HE2	4	0.11
(1,597)	1:38:B:VAL:HG23	1:52:B:TYR:HE1	4	0.11
(1,597)	1:38:B:VAL:HG23	1:52:B:TYR:HE2	4	0.11
(1,593)	1:55:B:HIS:HD2	1:56:B:PHE:HA	10	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,593)	1:55:B:HIS:HD2	1:56:B:PHE:HA	19	0.11
(1,589)	1:56:B:PHE:HE1	1:60:B:HIS:HD2	5	0.11
(1,589)	1:56:B:PHE:HE2	1:60:B:HIS:HD2	5	0.11
(1,571)	1:34:B:ALA:HA	1:36:B:TYR:HD1	4	0.11
(1,571)	1:34:B:ALA:HA	1:36:B:TYR:HD2	4	0.11
(1,548)	1:60:A:HIS:H	1:59:A:LYS:HA	5	0.11
(1,548)	1:60:A:HIS:H	1:59:A:LYS:HA	7	0.11
(1,548)	1:60:A:HIS:H	1:59:A:LYS:HA	10	0.11
(1,548)	1:60:A:HIS:H	1:59:A:LYS:HA	17	0.11
(1,548)	1:60:A:HIS:H	1:59:A:LYS:HA	19	0.11
(1,538)	1:52:A:TYR:H	1:51:A:GLY:HA2	1	0.11
(1,538)	1:52:A:TYR:H	1:51:A:GLY:HA2	2	0.11
(1,538)	1:52:A:TYR:H	1:51:A:GLY:HA2	5	0.11
(1,538)	1:52:A:TYR:H	1:51:A:GLY:HA2	6	0.11
(1,538)	1:52:A:TYR:H	1:51:A:GLY:HA2	7	0.11
(1,538)	1:52:A:TYR:H	1:51:A:GLY:HA2	8	0.11
(1,538)	1:52:A:TYR:H	1:51:A:GLY:HA2	9	0.11
(1,538)	1:52:A:TYR:H	1:51:A:GLY:HA2	10	0.11
(1,538)	1:52:A:TYR:H	1:51:A:GLY:HA2	11	0.11
(1,538)	1:52:A:TYR:H	1:51:A:GLY:HA2	13	0.11
(1,538)	1:52:A:TYR:H	1:51:A:GLY:HA2	14	0.11
(1,538)	1:52:A:TYR:H	1:51:A:GLY:HA2	15	0.11
(1,538)	1:52:A:TYR:H	1:51:A:GLY:HA2	16	0.11
(1,538)	1:52:A:TYR:H	1:51:A:GLY:HA2	17	0.11
(1,538)	1:52:A:TYR:H	1:51:A:GLY:HA2	18	0.11
(1,538)	1:52:A:TYR:H	1:51:A:GLY:HA2	19	0.11
(1,538)	1:52:A:TYR:H	1:51:A:GLY:HA2	20	0.11
(1,488)	1:28:A:VAL:H	1:27:A:GLU:HG2	17	0.11
(1,488)	1:28:A:VAL:H	1:27:A:GLU:HG3	17	0.11
(1,464)	1:59:A:LYS:HE2	1:59:A:LYS:HG2	3	0.11
(1,464)	1:59:A:LYS:HE2	1:59:A:LYS:HG3	3	0.11
(1,464)	1:59:A:LYS:HE2	1:59:A:LYS:HG2	5	0.11
(1,464)	1:59:A:LYS:HE2	1:59:A:LYS:HG3	5	0.11
(1,464)	1:59:A:LYS:HE2	1:59:A:LYS:HG2	6	0.11
(1,464)	1:59:A:LYS:HE2	1:59:A:LYS:HG3	6	0.11
(1,456)	1:57:A:ARG:HD3	1:57:A:ARG:HG2	11	0.11
(1,456)	1:57:A:ARG:HD3	1:57:A:ARG:HG2	15	0.11
(1,456)	1:57:A:ARG:HD3	1:57:A:ARG:HG2	16	0.11
(1,456)	1:57:A:ARG:HD3	1:57:A:ARG:HG2	18	0.11
(1,453)	1:47:A:LEU:HD11	1:55:A:HIS:HB3	15	0.11
(1,453)	1:47:A:LEU:HD12	1:55:A:HIS:HB3	15	0.11
(1,453)	1:47:A:LEU:HD13	1:55:A:HIS:HB3	15	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,446)	1:49:A:LEU:HD21	1:36:A:TYR:HD1	2	0.11
(1,446)	1:49:A:LEU:HD21	1:36:A:TYR:HD2	2	0.11
(1,446)	1:49:A:LEU:HD22	1:36:A:TYR:HD1	2	0.11
(1,446)	1:49:A:LEU:HD22	1:36:A:TYR:HD2	2	0.11
(1,446)	1:49:A:LEU:HD23	1:36:A:TYR:HD1	2	0.11
(1,446)	1:49:A:LEU:HD23	1:36:A:TYR:HD2	2	0.11
(1,446)	1:49:A:LEU:HD21	1:36:A:TYR:HD1	19	0.11
(1,446)	1:49:A:LEU:HD21	1:36:A:TYR:HD2	19	0.11
(1,446)	1:49:A:LEU:HD22	1:36:A:TYR:HD1	19	0.11
(1,446)	1:49:A:LEU:HD22	1:36:A:TYR:HD2	19	0.11
(1,446)	1:49:A:LEU:HD23	1:36:A:TYR:HD1	19	0.11
(1,446)	1:49:A:LEU:HD23	1:36:A:TYR:HD2	19	0.11
(1,428)	1:25:A:CYS:HB2	1:42:A:LEU:HD11	2	0.11
(1,428)	1:25:A:CYS:HB2	1:42:A:LEU:HD12	2	0.11
(1,428)	1:25:A:CYS:HB2	1:42:A:LEU:HD13	2	0.11
(1,428)	1:25:A:CYS:HB2	1:42:A:LEU:HD11	10	0.11
(1,428)	1:25:A:CYS:HB2	1:42:A:LEU:HD12	10	0.11
(1,428)	1:25:A:CYS:HB2	1:42:A:LEU:HD13	10	0.11
(1,428)	1:25:A:CYS:HB2	1:42:A:LEU:HD11	12	0.11
(1,428)	1:25:A:CYS:HB2	1:42:A:LEU:HD12	12	0.11
(1,428)	1:25:A:CYS:HB2	1:42:A:LEU:HD13	12	0.11
(1,428)	1:25:A:CYS:HB2	1:42:A:LEU:HD11	13	0.11
(1,428)	1:25:A:CYS:HB2	1:42:A:LEU:HD12	13	0.11
(1,428)	1:25:A:CYS:HB2	1:42:A:LEU:HD13	13	0.11
(1,428)	1:25:A:CYS:HB2	1:42:A:LEU:HD11	14	0.11
(1,428)	1:25:A:CYS:HB2	1:42:A:LEU:HD12	14	0.11
(1,428)	1:25:A:CYS:HB2	1:42:A:LEU:HD13	14	0.11
(1,382)	1:45:A:GLN:HA	1:45:A:GLN:HG3	15	0.11
(1,350)	1:22:A:ASN:HA	1:22:A:ASN:HB2	1	0.11
(1,350)	1:22:A:ASN:HA	1:22:A:ASN:HB2	2	0.11
(1,350)	1:22:A:ASN:HA	1:22:A:ASN:HB2	3	0.11
(1,350)	1:22:A:ASN:HA	1:22:A:ASN:HB2	4	0.11
(1,350)	1:22:A:ASN:HA	1:22:A:ASN:HB2	5	0.11
(1,350)	1:22:A:ASN:HA	1:22:A:ASN:HB2	6	0.11
(1,350)	1:22:A:ASN:HA	1:22:A:ASN:HB2	7	0.11
(1,350)	1:22:A:ASN:HA	1:22:A:ASN:HB2	8	0.11
(1,350)	1:22:A:ASN:HA	1:22:A:ASN:HB2	9	0.11
(1,350)	1:22:A:ASN:HA	1:22:A:ASN:HB2	10	0.11
(1,350)	1:22:A:ASN:HA	1:22:A:ASN:HB2	11	0.11
(1,350)	1:22:A:ASN:HA	1:22:A:ASN:HB2	12	0.11
(1,350)	1:22:A:ASN:HA	1:22:A:ASN:HB2	13	0.11
(1,350)	1:22:A:ASN:HA	1:22:A:ASN:HB2	14	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,350)	1:22:A:ASN:HA	1:22:A:ASN:HB2	15	0.11
(1,350)	1:22:A:ASN:HA	1:22:A:ASN:HB2	16	0.11
(1,350)	1:22:A:ASN:HA	1:22:A:ASN:HB2	17	0.11
(1,350)	1:22:A:ASN:HA	1:22:A:ASN:HB2	20	0.11
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD11	1	0.11
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD12	1	0.11
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD13	1	0.11
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD21	1	0.11
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD22	1	0.11
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD23	1	0.11
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD11	9	0.11
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD12	9	0.11
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD13	9	0.11
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD21	9	0.11
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD22	9	0.11
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD23	9	0.11
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD11	11	0.11
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD12	11	0.11
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD13	11	0.11
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD21	11	0.11
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD22	11	0.11
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD23	11	0.11
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD11	14	0.11
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD12	14	0.11
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD13	14	0.11
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD21	14	0.11
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD22	14	0.11
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD23	14	0.11
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD11	16	0.11
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD12	16	0.11
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD13	16	0.11
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD21	16	0.11
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD22	16	0.11
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD23	16	0.11
(1,328)	1:57:A:ARG:HG2	1:57:A:ARG:HA	4	0.11
(1,328)	1:57:A:ARG:HG2	1:57:A:ARG:HA	13	0.11
(1,328)	1:57:A:ARG:HG2	1:57:A:ARG:HA	19	0.11
(1,325)	1:41:A:LEU:HB2	1:25:A:CYS:HA	7	0.11
(1,325)	1:41:A:LEU:HB2	1:25:A:CYS:HA	16	0.11
(1,319)	1:47:A:LEU:H	1:46:A:ARG:HG2	3	0.11
(1,319)	1:47:A:LEU:H	1:46:A:ARG:HG3	3	0.11
(1,305)	1:38:A:VAL:H	1:38:A:VAL:HG11	9	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,305)	1:38:A:VAL:H	1:38:A:VAL:HG12	9	0.11
(1,305)	1:38:A:VAL:H	1:38:A:VAL:HG13	9	0.11
(1,301)	1:43:A:CYS:H	1:40:A:CYS:HB2	13	0.11
(1,249)	1:42:A:LEU:HD11	1:56:A:PHE:HZ	4	0.11
(1,249)	1:42:A:LEU:HD12	1:56:A:PHE:HZ	4	0.11
(1,249)	1:42:A:LEU:HD13	1:56:A:PHE:HZ	4	0.11
(1,246)	1:40:A:CYS:HB3	1:52:A:TYR:HE1	7	0.11
(1,246)	1:40:A:CYS:HB3	1:52:A:TYR:HE2	7	0.11
(1,244)	1:60:A:HIS:H	1:57:A:ARG:HA	1	0.11
(1,243)	1:61:A:PHE:H	1:57:A:ARG:HA	17	0.11
(1,239)	1:30:A:PHE:HE1	1:34:A:ALA:HA	10	0.11
(1,239)	1:30:A:PHE:HE2	1:34:A:ALA:HA	10	0.11
(1,239)	1:30:A:PHE:HE1	1:34:A:ALA:HA	17	0.11
(1,239)	1:30:A:PHE:HE2	1:34:A:ALA:HA	17	0.11
(1,236)	1:28:A:VAL:HG11	1:36:A:TYR:HD1	6	0.11
(1,236)	1:28:A:VAL:HG11	1:36:A:TYR:HD2	6	0.11
(1,236)	1:28:A:VAL:HG12	1:36:A:TYR:HD1	6	0.11
(1,236)	1:28:A:VAL:HG12	1:36:A:TYR:HD2	6	0.11
(1,236)	1:28:A:VAL:HG13	1:36:A:TYR:HD1	6	0.11
(1,236)	1:28:A:VAL:HG13	1:36:A:TYR:HD2	6	0.11
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD11	8	0.11
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD12	8	0.11
(1,233)	1:39:A:SER:HB3	1:29:A:LEU:HD13	8	0.11
(1,193)	1:55:A:HIS:HD2	1:55:A:HIS:HB2	18	0.11
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD11	5	0.11
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD12	5	0.11
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD13	5	0.11
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD11	18	0.11
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD12	18	0.11
(1,179)	1:27:A:GLU:H	1:41:A:LEU:HD13	18	0.11
(1,178)	1:27:A:GLU:H	1:41:A:LEU:HD21	8	0.11
(1,178)	1:27:A:GLU:H	1:41:A:LEU:HD22	8	0.11
(1,178)	1:27:A:GLU:H	1:41:A:LEU:HD23	8	0.11
(1,153)	1:35:A:SER:HB2	1:31:A:SER:HB2	4	0.11
(1,146)	1:39:A:SER:HA	1:46:A:ARG:HA	4	0.11
(1,146)	1:39:A:SER:HA	1:46:A:ARG:HA	10	0.11
(1,146)	1:39:A:SER:HA	1:46:A:ARG:HA	20	0.11
(1,144)	1:42:A:LEU:HD11	1:25:A:CYS:HA	2	0.11
(1,144)	1:42:A:LEU:HD12	1:25:A:CYS:HA	2	0.11
(1,144)	1:42:A:LEU:HD13	1:25:A:CYS:HA	2	0.11
(1,144)	1:42:A:LEU:HD11	1:25:A:CYS:HA	3	0.11
(1,144)	1:42:A:LEU:HD12	1:25:A:CYS:HA	3	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,144)	1:42:A:LEU:HD13	1:25:A:CYS:HA	3	0.11
(1,144)	1:42:A:LEU:HD11	1:25:A:CYS:HA	16	0.11
(1,144)	1:42:A:LEU:HD12	1:25:A:CYS:HA	16	0.11
(1,144)	1:42:A:LEU:HD13	1:25:A:CYS:HA	16	0.11
(1,144)	1:42:A:LEU:HD11	1:25:A:CYS:HA	20	0.11
(1,144)	1:42:A:LEU:HD12	1:25:A:CYS:HA	20	0.11
(1,144)	1:42:A:LEU:HD13	1:25:A:CYS:HA	20	0.11
(1,121)	1:61:A:PHE:HB3	1:56:A:PHE:HD1	11	0.11
(1,121)	1:61:A:PHE:HB3	1:56:A:PHE:HD2	11	0.11
(1,108)	1:56:A:PHE:HE1	1:60:A:HIS:HD2	14	0.11
(1,108)	1:56:A:PHE:HE2	1:60:A:HIS:HD2	14	0.11
(1,108)	1:56:A:PHE:HE1	1:60:A:HIS:HD2	15	0.11
(1,108)	1:56:A:PHE:HE2	1:60:A:HIS:HD2	15	0.11
(1,108)	1:56:A:PHE:HE1	1:60:A:HIS:HD2	16	0.11
(1,108)	1:56:A:PHE:HE2	1:60:A:HIS:HD2	16	0.11
(1,108)	1:56:A:PHE:HE1	1:60:A:HIS:HD2	17	0.11
(1,108)	1:56:A:PHE:HE2	1:60:A:HIS:HD2	17	0.11
(1,94)	1:37:A:GLU:HA	1:48:A:PRO:HA	7	0.11
(1,94)	1:37:A:GLU:HA	1:48:A:PRO:HA	17	0.11
(1,94)	1:37:A:GLU:HA	1:48:A:PRO:HA	19	0.11
(1,94)	1:37:A:GLU:HA	1:48:A:PRO:HA	20	0.11
(1,90)	1:34:A:ALA:HA	1:36:A:TYR:HD1	2	0.11
(1,90)	1:34:A:ALA:HA	1:36:A:TYR:HD2	2	0.11
(1,85)	1:20:A:TYR:HE1	1:61:A:PHE:HA	13	0.11
(1,85)	1:20:A:TYR:HE2	1:61:A:PHE:HA	13	0.11
(1,82)	1:52:A:TYR:HE1	1:56:A:PHE:H	12	0.11
(1,82)	1:52:A:TYR:HE2	1:56:A:PHE:H	12	0.11
(1,76)	1:22:B:ASN:H	1:32:A:ALA:H	2	0.11
(1,75)	1:22:A:ASN:H	1:32:B:ALA:H	2	0.11
(1,75)	1:22:A:ASN:H	1:32:B:ALA:H	18	0.11
(1,72)	1:32:B:ALA:H	1:20:A:TYR:HB3	2	0.11
(1,71)	1:32:A:ALA:H	1:20:B:TYR:HB3	7	0.11
(1,71)	1:32:A:ALA:H	1:20:B:TYR:HB3	11	0.11
(1,71)	1:32:A:ALA:H	1:20:B:TYR:HB3	17	0.11
(1,69)	1:32:A:ALA:H	1:20:B:TYR:HB2	11	0.11
(1,69)	1:32:A:ALA:H	1:20:B:TYR:HB2	12	0.11
(1,69)	1:32:A:ALA:H	1:20:B:TYR:HB2	13	0.11
(1,58)	1:26:B:GLY:H	1:28:A:VAL:H	1	0.11
(1,58)	1:26:B:GLY:H	1:28:A:VAL:H	3	0.11
(1,58)	1:26:B:GLY:H	1:28:A:VAL:H	13	0.11
(1,58)	1:26:B:GLY:H	1:28:A:VAL:H	18	0.11
(1,58)	1:26:B:GLY:H	1:28:A:VAL:H	19	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,58)	1:26:B:GLY:H	1:28:A:VAL:H	20	0.11
(1,57)	1:26:A:GLY:H	1:28:B:VAL:H	1	0.11
(1,57)	1:26:A:GLY:H	1:28:B:VAL:H	2	0.11
(1,57)	1:26:A:GLY:H	1:28:B:VAL:H	3	0.11
(1,57)	1:26:A:GLY:H	1:28:B:VAL:H	5	0.11
(1,57)	1:26:A:GLY:H	1:28:B:VAL:H	9	0.11
(1,57)	1:26:A:GLY:H	1:28:B:VAL:H	12	0.11
(1,57)	1:26:A:GLY:H	1:28:B:VAL:H	13	0.11
(1,57)	1:26:A:GLY:H	1:28:B:VAL:H	15	0.11
(1,57)	1:26:A:GLY:H	1:28:B:VAL:H	17	0.11
(1,57)	1:26:A:GLY:H	1:28:B:VAL:H	18	0.11
(1,57)	1:26:A:GLY:H	1:28:B:VAL:H	19	0.11
(1,54)	1:25:B:CYS:H	1:28:A:VAL:HB	3	0.11
(1,54)	1:25:B:CYS:H	1:28:A:VAL:HB	6	0.11
(1,54)	1:25:B:CYS:H	1:28:A:VAL:HB	7	0.11
(1,54)	1:25:B:CYS:H	1:28:A:VAL:HB	10	0.11
(1,54)	1:25:B:CYS:H	1:28:A:VAL:HB	17	0.11
(1,53)	1:25:A:CYS:H	1:28:B:VAL:HB	20	0.11
(1,46)	1:49:B:LEU:HD11	1:53:A:PRO:HD2	1	0.11
(1,46)	1:49:B:LEU:HD12	1:53:A:PRO:HD2	1	0.11
(1,46)	1:49:B:LEU:HD13	1:53:A:PRO:HD2	1	0.11
(1,46)	1:49:B:LEU:HD11	1:53:A:PRO:HD2	11	0.11
(1,46)	1:49:B:LEU:HD12	1:53:A:PRO:HD2	11	0.11
(1,46)	1:49:B:LEU:HD13	1:53:A:PRO:HD2	11	0.11
(1,46)	1:49:B:LEU:HD11	1:53:A:PRO:HD2	14	0.11
(1,46)	1:49:B:LEU:HD12	1:53:A:PRO:HD2	14	0.11
(1,46)	1:49:B:LEU:HD13	1:53:A:PRO:HD2	14	0.11
(1,45)	1:49:A:LEU:HD11	1:53:B:PRO:HD2	1	0.11
(1,45)	1:49:A:LEU:HD12	1:53:B:PRO:HD2	1	0.11
(1,45)	1:49:A:LEU:HD13	1:53:B:PRO:HD2	1	0.11
(1,45)	1:49:A:LEU:HD11	1:53:B:PRO:HD2	6	0.11
(1,45)	1:49:A:LEU:HD12	1:53:B:PRO:HD2	6	0.11
(1,45)	1:49:A:LEU:HD13	1:53:B:PRO:HD2	6	0.11
(1,45)	1:49:A:LEU:HD11	1:53:B:PRO:HD2	17	0.11
(1,45)	1:49:A:LEU:HD12	1:53:B:PRO:HD2	17	0.11
(1,45)	1:49:A:LEU:HD13	1:53:B:PRO:HD2	17	0.11
(1,42)	1:22:B:ASN:HB2	1:29:A:LEU:HD21	1	0.11
(1,42)	1:22:B:ASN:HB2	1:29:A:LEU:HD22	1	0.11
(1,42)	1:22:B:ASN:HB2	1:29:A:LEU:HD23	1	0.11
(1,42)	1:22:B:ASN:HB2	1:29:A:LEU:HD21	8	0.11
(1,42)	1:22:B:ASN:HB2	1:29:A:LEU:HD22	8	0.11
(1,42)	1:22:B:ASN:HB2	1:29:A:LEU:HD23	8	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,42)	1:22:B:ASN:HB2	1:29:A:LEU:HD21	10	0.11
(1,42)	1:22:B:ASN:HB2	1:29:A:LEU:HD22	10	0.11
(1,42)	1:22:B:ASN:HB2	1:29:A:LEU:HD23	10	0.11
(1,42)	1:22:B:ASN:HB2	1:29:A:LEU:HD21	19	0.11
(1,42)	1:22:B:ASN:HB2	1:29:A:LEU:HD22	19	0.11
(1,42)	1:22:B:ASN:HB2	1:29:A:LEU:HD23	19	0.11
(1,41)	1:22:A:ASN:HB2	1:29:B:LEU:HD21	9	0.11
(1,41)	1:22:A:ASN:HB2	1:29:B:LEU:HD22	9	0.11
(1,41)	1:22:A:ASN:HB2	1:29:B:LEU:HD23	9	0.11
(1,41)	1:22:A:ASN:HB2	1:29:B:LEU:HD21	18	0.11
(1,41)	1:22:A:ASN:HB2	1:29:B:LEU:HD22	18	0.11
(1,41)	1:22:A:ASN:HB2	1:29:B:LEU:HD23	18	0.11
(1,34)	1:36:B:TYR:HE1	1:56:A:PHE:HD1	10	0.11
(1,34)	1:36:B:TYR:HE1	1:56:A:PHE:HD2	10	0.11
(1,34)	1:36:B:TYR:HE2	1:56:A:PHE:HD1	10	0.11
(1,34)	1:36:B:TYR:HE2	1:56:A:PHE:HD2	10	0.11
(1,34)	1:36:B:TYR:HE1	1:56:A:PHE:HD1	13	0.11
(1,34)	1:36:B:TYR:HE1	1:56:A:PHE:HD2	13	0.11
(1,34)	1:36:B:TYR:HE2	1:56:A:PHE:HD1	13	0.11
(1,34)	1:36:B:TYR:HE2	1:56:A:PHE:HD2	13	0.11
(1,33)	1:36:A:TYR:HE1	1:56:B:PHE:HD1	10	0.11
(1,33)	1:36:A:TYR:HE1	1:56:B:PHE:HD2	10	0.11
(1,33)	1:36:A:TYR:HE2	1:56:B:PHE:HD1	10	0.11
(1,33)	1:36:A:TYR:HE2	1:56:B:PHE:HD2	10	0.11
(1,23)	1:30:A:PHE:HE1	1:61:B:PHE:HZ	3	0.11
(1,23)	1:30:A:PHE:HE2	1:61:B:PHE:HZ	3	0.11
(1,20)	1:21:B:HIS:HA	1:31:A:SER:HA	8	0.11
(1,20)	1:21:B:HIS:HA	1:31:A:SER:HA	9	0.11
(1,20)	1:21:B:HIS:HA	1:31:A:SER:HA	16	0.11
(1,13)	1:29:B:LEU:HD21	1:24:A:ARG:HA	2	0.11
(1,13)	1:29:B:LEU:HD22	1:24:A:ARG:HA	2	0.11
(1,13)	1:29:B:LEU:HD23	1:24:A:ARG:HA	2	0.11
(1,13)	1:29:B:LEU:HD21	1:24:A:ARG:HA	9	0.11
(1,13)	1:29:B:LEU:HD22	1:24:A:ARG:HA	9	0.11
(1,13)	1:29:B:LEU:HD23	1:24:A:ARG:HA	9	0.11
(1,13)	1:29:B:LEU:HD21	1:24:A:ARG:HA	16	0.11
(1,13)	1:29:B:LEU:HD22	1:24:A:ARG:HA	16	0.11
(1,13)	1:29:B:LEU:HD23	1:24:A:ARG:HA	16	0.11
(1,11)	1:29:A:LEU:HD21	1:24:B:ARG:HA	4	0.11
(1,11)	1:29:A:LEU:HD22	1:24:B:ARG:HA	4	0.11
(1,11)	1:29:A:LEU:HD23	1:24:B:ARG:HA	4	0.11
(1,11)	1:29:A:LEU:HD21	1:24:B:ARG:HA	18	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,11)	1:29:A:LEU:HD22	1:24:B:ARG:HA	18	0.11
(1,11)	1:29:A:LEU:HD23	1:24:B:ARG:HA	18	0.11
(1,3)	1:49:A:LEU:HD11	1:50:B:ASP:HA	9	0.11
(1,3)	1:49:A:LEU:HD12	1:50:B:ASP:HA	9	0.11
(1,3)	1:49:A:LEU:HD13	1:50:B:ASP:HA	9	0.11
(1,3)	1:49:A:LEU:HD11	1:50:B:ASP:HA	12	0.11
(1,3)	1:49:A:LEU:HD12	1:50:B:ASP:HA	12	0.11
(1,3)	1:49:A:LEU:HD13	1:50:B:ASP:HA	12	0.11
(2,2)	1:40:A:CYS:SG	2:101:A:ZN:ZN	8	0.1
(1,1039)	1:62:B:THR:H	1:62:B:THR:HB	2	0.1
(1,1039)	1:62:B:THR:H	1:62:B:THR:HB	6	0.1
(1,1039)	1:62:B:THR:H	1:62:B:THR:HB	7	0.1
(1,1032)	1:60:B:HIS:H	1:60:B:HIS:HB2	4	0.1
(1,1019)	1:52:B:TYR:H	1:51:B:GLY:HA2	4	0.1
(1,1019)	1:52:B:TYR:H	1:51:B:GLY:HA2	14	0.1
(1,1019)	1:52:B:TYR:H	1:51:B:GLY:HA2	15	0.1
(1,985)	1:36:B:TYR:H	1:35:B:SER:HB3	17	0.1
(1,959)	1:21:B:HIS:H	1:20:B:TYR:HA	7	0.1
(1,957)	1:63:B:ASN:HA	1:63:B:ASN:HB3	6	0.1
(1,957)	1:63:B:ASN:HA	1:63:B:ASN:HB3	10	0.1
(1,957)	1:63:B:ASN:HA	1:63:B:ASN:HB3	14	0.1
(1,945)	1:59:B:LYS:HE2	1:59:B:LYS:HG2	3	0.1
(1,945)	1:59:B:LYS:HE2	1:59:B:LYS:HG3	3	0.1
(1,945)	1:59:B:LYS:HE2	1:59:B:LYS:HG2	15	0.1
(1,945)	1:59:B:LYS:HE2	1:59:B:LYS:HG3	15	0.1
(1,945)	1:59:B:LYS:HE2	1:59:B:LYS:HG2	18	0.1
(1,945)	1:59:B:LYS:HE2	1:59:B:LYS:HG3	18	0.1
(1,945)	1:59:B:LYS:HE2	1:59:B:LYS:HG2	20	0.1
(1,945)	1:59:B:LYS:HE2	1:59:B:LYS:HG3	20	0.1
(1,934)	1:47:B:LEU:HD11	1:55:B:HIS:HB3	19	0.1
(1,934)	1:47:B:LEU:HD12	1:55:B:HIS:HB3	19	0.1
(1,934)	1:47:B:LEU:HD13	1:55:B:HIS:HB3	19	0.1
(1,932)	1:52:B:TYR:HA	1:55:B:HIS:HB2	2	0.1
(1,932)	1:52:B:TYR:HA	1:55:B:HIS:HB2	20	0.1
(1,909)	1:25:B:CYS:HB2	1:42:B:LEU:HD11	4	0.1
(1,909)	1:25:B:CYS:HB2	1:42:B:LEU:HD12	4	0.1
(1,909)	1:25:B:CYS:HB2	1:42:B:LEU:HD13	4	0.1
(1,909)	1:25:B:CYS:HB2	1:42:B:LEU:HD11	20	0.1
(1,909)	1:25:B:CYS:HB2	1:42:B:LEU:HD12	20	0.1
(1,909)	1:25:B:CYS:HB2	1:42:B:LEU:HD13	20	0.1
(1,899)	1:37:B:GLU:HB3	1:37:B:GLU:HG2	7	0.1
(1,899)	1:37:B:GLU:HB3	1:37:B:GLU:HG3	7	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,899)	1:37:B:GLU:HB3	1:37:B:GLU:HG2	14	0.1
(1,899)	1:37:B:GLU:HB3	1:37:B:GLU:HG3	14	0.1
(1,899)	1:37:B:GLU:HB3	1:37:B:GLU:HG2	19	0.1
(1,899)	1:37:B:GLU:HB3	1:37:B:GLU:HG3	19	0.1
(1,852)	1:37:B:GLU:HG2	1:37:B:GLU:HB2	18	0.1
(1,852)	1:37:B:GLU:HG3	1:37:B:GLU:HB2	18	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD11	3	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD12	3	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD13	3	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD21	3	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD22	3	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD23	3	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD11	9	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD12	9	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD13	9	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD21	9	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD22	9	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD23	9	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD11	10	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD12	10	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD13	10	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD21	10	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD22	10	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD23	10	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD11	11	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD12	11	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD13	11	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD21	11	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD22	11	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD23	11	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD11	13	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD12	13	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD13	13	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD21	13	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD22	13	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD23	13	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD11	14	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD12	14	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD13	14	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD21	14	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD22	14	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD23	14	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD11	15	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD12	15	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD13	15	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD21	15	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD22	15	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD23	15	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD11	16	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD12	16	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD13	16	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD21	16	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD22	16	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD23	16	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD11	18	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD12	18	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD13	18	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD21	18	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD22	18	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD23	18	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD11	20	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD12	20	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD13	20	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD21	20	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD22	20	0.1
(1,829)	1:23:B:LEU:HA	1:23:B:LEU:HD23	20	0.1
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD21	2	0.1
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD22	2	0.1
(1,793)	1:26:B:GLY:H	1:41:B:LEU:HD23	2	0.1
(1,786)	1:38:B:VAL:H	1:38:B:VAL:HG11	5	0.1
(1,786)	1:38:B:VAL:H	1:38:B:VAL:HG12	5	0.1
(1,786)	1:38:B:VAL:H	1:38:B:VAL:HG13	5	0.1
(1,786)	1:38:B:VAL:H	1:38:B:VAL:HG11	18	0.1
(1,786)	1:38:B:VAL:H	1:38:B:VAL:HG12	18	0.1
(1,786)	1:38:B:VAL:H	1:38:B:VAL:HG13	18	0.1
(1,786)	1:38:B:VAL:H	1:38:B:VAL:HG11	20	0.1
(1,786)	1:38:B:VAL:H	1:38:B:VAL:HG12	20	0.1
(1,786)	1:38:B:VAL:H	1:38:B:VAL:HG13	20	0.1
(1,782)	1:43:B:CYS:H	1:40:B:CYS:HB2	7	0.1
(1,729)	1:56:B:PHE:HE1	1:61:B:PHE:HB3	2	0.1
(1,729)	1:56:B:PHE:HE2	1:61:B:PHE:HB3	2	0.1
(1,727)	1:40:B:CYS:HB3	1:52:B:TYR:HE1	20	0.1
(1,727)	1:40:B:CYS:HB3	1:52:B:TYR:HE2	20	0.1
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD11	2	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD12	2	0.1
(1,660)	1:27:B:GLU:H	1:41:B:LEU:HD13	2	0.1
(1,651)	1:55:B:HIS:H	1:47:B:LEU:HD11	7	0.1
(1,651)	1:55:B:HIS:H	1:47:B:LEU:HD12	7	0.1
(1,651)	1:55:B:HIS:H	1:47:B:LEU:HD13	7	0.1
(1,627)	1:39:B:SER:HA	1:46:B:ARG:HA	12	0.1
(1,625)	1:42:B:LEU:HD11	1:25:B:CYS:HA	8	0.1
(1,625)	1:42:B:LEU:HD12	1:25:B:CYS:HA	8	0.1
(1,625)	1:42:B:LEU:HD13	1:25:B:CYS:HA	8	0.1
(1,625)	1:42:B:LEU:HD11	1:25:B:CYS:HA	17	0.1
(1,625)	1:42:B:LEU:HD12	1:25:B:CYS:HA	17	0.1
(1,625)	1:42:B:LEU:HD13	1:25:B:CYS:HA	17	0.1
(1,602)	1:61:B:PHE:HB3	1:56:B:PHE:HD1	11	0.1
(1,602)	1:61:B:PHE:HB3	1:56:B:PHE:HD2	11	0.1
(1,594)	1:55:B:HIS:H	1:52:B:TYR:HA	11	0.1
(1,593)	1:55:B:HIS:HD2	1:56:B:PHE:HA	14	0.1
(1,592)	1:56:B:PHE:H	1:53:B:PRO:HA	8	0.1
(1,591)	1:56:B:PHE:HE1	1:25:B:CYS:HA	20	0.1
(1,591)	1:56:B:PHE:HE2	1:25:B:CYS:HA	20	0.1
(1,589)	1:56:B:PHE:HE1	1:60:B:HIS:HD2	3	0.1
(1,589)	1:56:B:PHE:HE2	1:60:B:HIS:HD2	3	0.1
(1,558)	1:62:A:THR:H	1:62:A:THR:HB	17	0.1
(1,538)	1:52:A:TYR:H	1:51:A:GLY:HA2	3	0.1
(1,538)	1:52:A:TYR:H	1:51:A:GLY:HA2	4	0.1
(1,538)	1:52:A:TYR:H	1:51:A:GLY:HA2	12	0.1
(1,504)	1:36:A:TYR:H	1:35:A:SER:HB3	2	0.1
(1,494)	1:31:A:SER:H	1:31:A:SER:HA	14	0.1
(1,476)	1:63:A:ASN:HA	1:63:A:ASN:HB3	5	0.1
(1,476)	1:63:A:ASN:HA	1:63:A:ASN:HB3	8	0.1
(1,464)	1:59:A:LYS:HE2	1:59:A:LYS:HG2	7	0.1
(1,464)	1:59:A:LYS:HE2	1:59:A:LYS:HG3	7	0.1
(1,464)	1:59:A:LYS:HE2	1:59:A:LYS:HG2	12	0.1
(1,464)	1:59:A:LYS:HE2	1:59:A:LYS:HG3	12	0.1
(1,464)	1:59:A:LYS:HE2	1:59:A:LYS:HG2	17	0.1
(1,464)	1:59:A:LYS:HE2	1:59:A:LYS:HG3	17	0.1
(1,453)	1:47:A:LEU:HD11	1:55:A:HIS:HB3	13	0.1
(1,453)	1:47:A:LEU:HD12	1:55:A:HIS:HB3	13	0.1
(1,453)	1:47:A:LEU:HD13	1:55:A:HIS:HB3	13	0.1
(1,451)	1:52:A:TYR:HA	1:55:A:HIS:HB2	1	0.1
(1,451)	1:52:A:TYR:HA	1:55:A:HIS:HB2	3	0.1
(1,428)	1:25:A:CYS:HB2	1:42:A:LEU:HD11	5	0.1
(1,428)	1:25:A:CYS:HB2	1:42:A:LEU:HD12	5	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,428)	1:25:A:CYS:HB2	1:42:A:LEU:HD13	5	0.1
(1,428)	1:25:A:CYS:HB2	1:42:A:LEU:HD11	6	0.1
(1,428)	1:25:A:CYS:HB2	1:42:A:LEU:HD12	6	0.1
(1,428)	1:25:A:CYS:HB2	1:42:A:LEU:HD13	6	0.1
(1,408)	1:33:A:PRO:HG2	1:34:A:ALA:HB1	4	0.1
(1,408)	1:33:A:PRO:HG2	1:34:A:ALA:HB2	4	0.1
(1,408)	1:33:A:PRO:HG2	1:34:A:ALA:HB3	4	0.1
(1,382)	1:45:A:GLN:HA	1:45:A:GLN:HG3	18	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD11	2	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD12	2	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD13	2	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD21	2	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD22	2	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD23	2	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD11	5	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD12	5	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD13	5	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD21	5	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD22	5	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD23	5	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD11	6	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD12	6	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD13	6	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD21	6	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD22	6	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD23	6	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD11	7	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD12	7	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD13	7	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD21	7	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD22	7	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD23	7	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD11	8	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD12	8	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD13	8	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD21	8	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD22	8	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD23	8	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD11	12	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD12	12	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD13	12	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD21	12	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD22	12	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD23	12	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD11	17	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD12	17	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD13	17	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD21	17	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD22	17	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD23	17	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD11	18	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD12	18	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD13	18	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD21	18	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD22	18	0.1
(1,348)	1:23:A:LEU:HA	1:23:A:LEU:HD23	18	0.1
(1,325)	1:41:A:LEU:HB2	1:25:A:CYS:HA	3	0.1
(1,319)	1:47:A:LEU:H	1:46:A:ARG:HG2	9	0.1
(1,319)	1:47:A:LEU:H	1:46:A:ARG:HG3	9	0.1
(1,319)	1:47:A:LEU:H	1:46:A:ARG:HG2	14	0.1
(1,319)	1:47:A:LEU:H	1:46:A:ARG:HG3	14	0.1
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD21	11	0.1
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD22	11	0.1
(1,312)	1:26:A:GLY:H	1:41:A:LEU:HD23	11	0.1
(1,305)	1:38:A:VAL:H	1:38:A:VAL:HG11	2	0.1
(1,305)	1:38:A:VAL:H	1:38:A:VAL:HG12	2	0.1
(1,305)	1:38:A:VAL:H	1:38:A:VAL:HG13	2	0.1
(1,305)	1:38:A:VAL:H	1:38:A:VAL:HG11	7	0.1
(1,305)	1:38:A:VAL:H	1:38:A:VAL:HG12	7	0.1
(1,305)	1:38:A:VAL:H	1:38:A:VAL:HG13	7	0.1
(1,243)	1:61:A:PHE:H	1:57:A:ARG:HA	13	0.1
(1,242)	1:56:A:PHE:HD1	1:60:A:HIS:HD2	3	0.1
(1,242)	1:56:A:PHE:HD2	1:60:A:HIS:HD2	3	0.1
(1,239)	1:30:A:PHE:HE1	1:34:A:ALA:HA	3	0.1
(1,239)	1:30:A:PHE:HE2	1:34:A:ALA:HA	3	0.1
(1,239)	1:30:A:PHE:HE1	1:34:A:ALA:HA	13	0.1
(1,239)	1:30:A:PHE:HE2	1:34:A:ALA:HA	13	0.1
(1,239)	1:30:A:PHE:HE1	1:34:A:ALA:HA	20	0.1
(1,239)	1:30:A:PHE:HE2	1:34:A:ALA:HA	20	0.1
(1,193)	1:55:A:HIS:HD2	1:55:A:HIS:HB2	9	0.1
(1,178)	1:27:A:GLU:H	1:41:A:LEU:HD21	13	0.1
(1,178)	1:27:A:GLU:H	1:41:A:LEU:HD22	13	0.1
(1,178)	1:27:A:GLU:H	1:41:A:LEU:HD23	13	0.1
(1,178)	1:27:A:GLU:H	1:41:A:LEU:HD21	14	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,178)	1:27:A:GLU:H	1:41:A:LEU:HD22	14	0.1
(1,178)	1:27:A:GLU:H	1:41:A:LEU:HD23	14	0.1
(1,178)	1:27:A:GLU:H	1:41:A:LEU:HD21	19	0.1
(1,178)	1:27:A:GLU:H	1:41:A:LEU:HD22	19	0.1
(1,178)	1:27:A:GLU:H	1:41:A:LEU:HD23	19	0.1
(1,170)	1:55:A:HIS:H	1:47:A:LEU:HD11	15	0.1
(1,170)	1:55:A:HIS:H	1:47:A:LEU:HD12	15	0.1
(1,170)	1:55:A:HIS:H	1:47:A:LEU:HD13	15	0.1
(1,146)	1:39:A:SER:HA	1:46:A:ARG:HA	5	0.1
(1,146)	1:39:A:SER:HA	1:46:A:ARG:HA	8	0.1
(1,121)	1:61:A:PHE:HB3	1:56:A:PHE:HD1	12	0.1
(1,121)	1:61:A:PHE:HB3	1:56:A:PHE:HD2	12	0.1
(1,116)	1:38:A:VAL:HG21	1:52:A:TYR:HE1	12	0.1
(1,116)	1:38:A:VAL:HG21	1:52:A:TYR:HE2	12	0.1
(1,116)	1:38:A:VAL:HG22	1:52:A:TYR:HE1	12	0.1
(1,116)	1:38:A:VAL:HG22	1:52:A:TYR:HE2	12	0.1
(1,116)	1:38:A:VAL:HG23	1:52:A:TYR:HE1	12	0.1
(1,116)	1:38:A:VAL:HG23	1:52:A:TYR:HE2	12	0.1
(1,112)	1:55:A:HIS:HD2	1:56:A:PHE:HA	6	0.1
(1,93)	1:49:A:LEU:HA	1:38:A:VAL:HB	15	0.1
(1,90)	1:34:A:ALA:HA	1:36:A:TYR:HD1	11	0.1
(1,90)	1:34:A:ALA:HA	1:36:A:TYR:HD2	11	0.1
(1,76)	1:22:B:ASN:H	1:32:A:ALA:H	6	0.1
(1,72)	1:32:B:ALA:H	1:20:A:TYR:HB3	19	0.1
(1,70)	1:32:B:ALA:H	1:20:A:TYR:HB2	19	0.1
(1,69)	1:32:A:ALA:H	1:20:B:TYR:HB2	7	0.1
(1,58)	1:26:B:GLY:H	1:28:A:VAL:H	15	0.1
(1,57)	1:26:A:GLY:H	1:28:B:VAL:H	6	0.1
(1,57)	1:26:A:GLY:H	1:28:B:VAL:H	8	0.1
(1,54)	1:25:B:CYS:H	1:28:A:VAL:HB	5	0.1
(1,53)	1:25:A:CYS:H	1:28:B:VAL:HB	2	0.1
(1,53)	1:25:A:CYS:H	1:28:B:VAL:HB	13	0.1
(1,46)	1:49:B:LEU:HD11	1:53:A:PRO:HD2	9	0.1
(1,46)	1:49:B:LEU:HD12	1:53:A:PRO:HD2	9	0.1
(1,46)	1:49:B:LEU:HD13	1:53:A:PRO:HD2	9	0.1
(1,46)	1:49:B:LEU:HD11	1:53:A:PRO:HD2	12	0.1
(1,46)	1:49:B:LEU:HD12	1:53:A:PRO:HD2	12	0.1
(1,46)	1:49:B:LEU:HD13	1:53:A:PRO:HD2	12	0.1
(1,46)	1:49:B:LEU:HD11	1:53:A:PRO:HD2	17	0.1
(1,46)	1:49:B:LEU:HD12	1:53:A:PRO:HD2	17	0.1
(1,46)	1:49:B:LEU:HD13	1:53:A:PRO:HD2	17	0.1
(1,45)	1:49:A:LEU:HD11	1:53:B:PRO:HD2	3	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,45)	1:49:A:LEU:HD12	1:53:B:PRO:HD2	3	0.1
(1,45)	1:49:A:LEU:HD13	1:53:B:PRO:HD2	3	0.1
(1,45)	1:49:A:LEU:HD11	1:53:B:PRO:HD2	8	0.1
(1,45)	1:49:A:LEU:HD12	1:53:B:PRO:HD2	8	0.1
(1,45)	1:49:A:LEU:HD13	1:53:B:PRO:HD2	8	0.1
(1,45)	1:49:A:LEU:HD11	1:53:B:PRO:HD2	10	0.1
(1,45)	1:49:A:LEU:HD12	1:53:B:PRO:HD2	10	0.1
(1,45)	1:49:A:LEU:HD13	1:53:B:PRO:HD2	10	0.1
(1,45)	1:49:A:LEU:HD11	1:53:B:PRO:HD2	15	0.1
(1,45)	1:49:A:LEU:HD12	1:53:B:PRO:HD2	15	0.1
(1,45)	1:49:A:LEU:HD13	1:53:B:PRO:HD2	15	0.1
(1,42)	1:22:B:ASN:HB2	1:29:A:LEU:HD21	11	0.1
(1,42)	1:22:B:ASN:HB2	1:29:A:LEU:HD22	11	0.1
(1,42)	1:22:B:ASN:HB2	1:29:A:LEU:HD23	11	0.1
(1,41)	1:22:A:ASN:HB2	1:29:B:LEU:HD21	4	0.1
(1,41)	1:22:A:ASN:HB2	1:29:B:LEU:HD22	4	0.1
(1,41)	1:22:A:ASN:HB2	1:29:B:LEU:HD23	4	0.1
(1,41)	1:22:A:ASN:HB2	1:29:B:LEU:HD21	10	0.1
(1,41)	1:22:A:ASN:HB2	1:29:B:LEU:HD22	10	0.1
(1,41)	1:22:A:ASN:HB2	1:29:B:LEU:HD23	10	0.1
(1,41)	1:22:A:ASN:HB2	1:29:B:LEU:HD21	16	0.1
(1,41)	1:22:A:ASN:HB2	1:29:B:LEU:HD22	16	0.1
(1,41)	1:22:A:ASN:HB2	1:29:B:LEU:HD23	16	0.1
(1,21)	1:30:A:PHE:HD1	1:23:B:LEU:HG	2	0.1
(1,21)	1:30:A:PHE:HD2	1:23:B:LEU:HG	2	0.1
(1,19)	1:21:A:HIS:HA	1:31:B:SER:HA	2	0.1
(1,19)	1:21:A:HIS:HA	1:31:B:SER:HA	3	0.1
(1,19)	1:21:A:HIS:HA	1:31:B:SER:HA	8	0.1
(1,19)	1:21:A:HIS:HA	1:31:B:SER:HA	10	0.1
(1,13)	1:29:B:LEU:HD21	1:24:A:ARG:HA	7	0.1
(1,13)	1:29:B:LEU:HD22	1:24:A:ARG:HA	7	0.1
(1,13)	1:29:B:LEU:HD23	1:24:A:ARG:HA	7	0.1
(1,13)	1:29:B:LEU:HD21	1:24:A:ARG:HA	13	0.1
(1,13)	1:29:B:LEU:HD22	1:24:A:ARG:HA	13	0.1
(1,13)	1:29:B:LEU:HD23	1:24:A:ARG:HA	13	0.1
(1,4)	1:49:B:LEU:HD11	1:50:A:ASP:HA	16	0.1
(1,4)	1:49:B:LEU:HD12	1:50:A:ASP:HA	16	0.1
(1,4)	1:49:B:LEU:HD13	1:50:A:ASP:HA	16	0.1

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

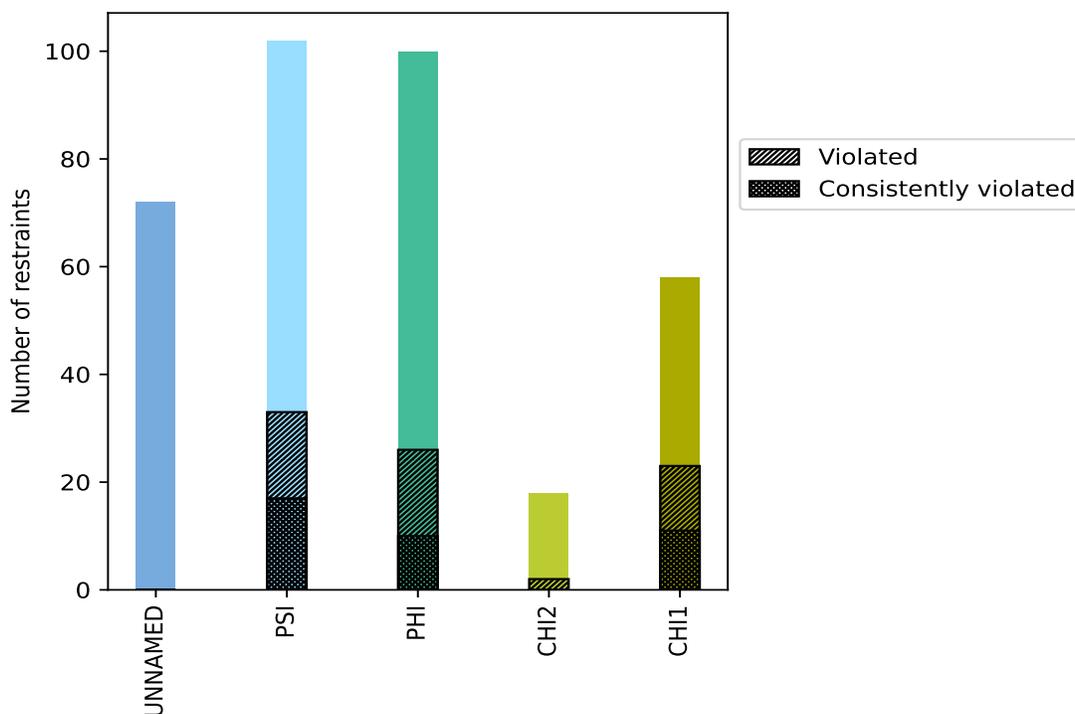
### 10.1 Summary of dihedral-angle violations [i](#)

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

Angle type	Count	% <sup>1</sup>	Violated <sup>3</sup>			Consistently Violated <sup>4</sup>		
			Count	% <sup>2</sup>	% <sup>1</sup>	Count	% <sup>2</sup>	% <sup>1</sup>
UNNAMED	72	20.6	0	0.0	0.0	0	0.0	0.0
PSI	102	29.1	33	32.4	9.4	17	16.7	4.9
PHI	100	28.6	26	26.0	7.4	10	10.0	2.9
CHI2	18	5.1	2	11.1	0.6	0	0.0	0.0
CHI1	58	16.6	23	39.7	6.6	11	19.0	3.1
Total	350	100.0	84	24.0	24.0	38	10.9	10.9

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

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



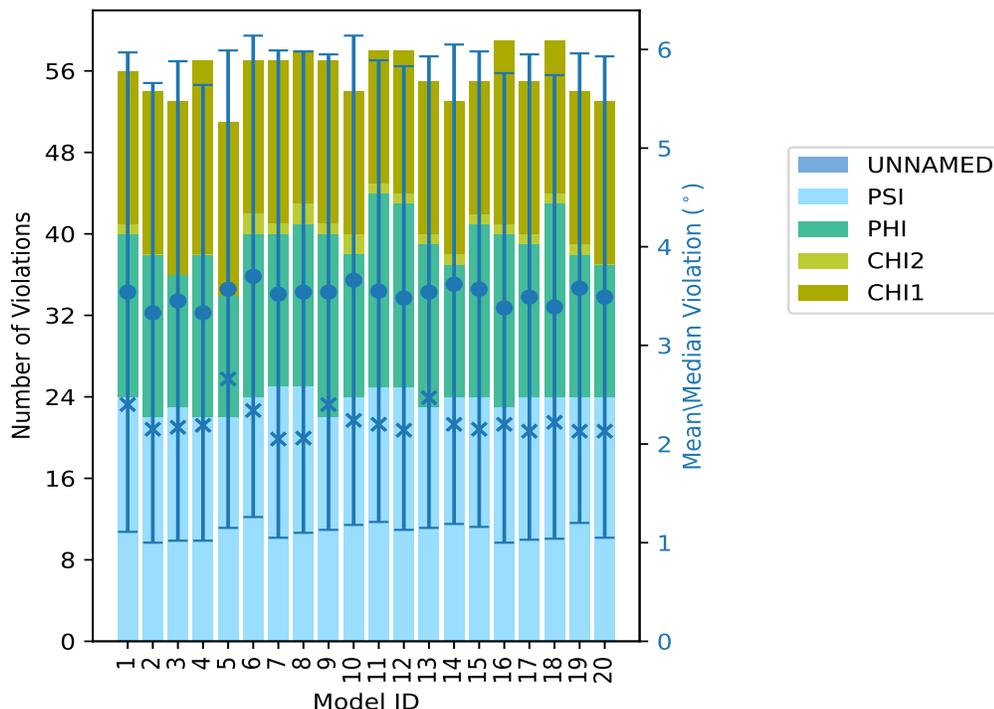
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

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

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

Model ID	Number of violations						Mean (°)	Max (°)	SD (°)	Median
	UNNAMED	PSI	PHI	CHI2	CHI1	Total				
1	0	24	16	1	15	56	3.54	9.31	2.43	2.4
2	0	22	16	0	16	54	3.33	8.09	2.33	2.15
3	0	23	13	0	17	53	3.45	9.77	2.43	2.17
4	0	22	16	0	19	57	3.33	8.13	2.31	2.19
5	0	22	12	0	17	51	3.57	8.26	2.42	2.66
6	0	24	16	2	15	57	3.7	8.54	2.44	2.34
7	0	25	15	1	16	57	3.52	9.73	2.47	2.05
8	0	25	16	2	15	58	3.54	8.53	2.44	2.06
9	0	22	18	1	16	57	3.54	9.47	2.41	2.4
10	0	24	14	2	14	54	3.66	8.43	2.48	2.24
11	0	25	19	1	13	58	3.55	8.41	2.34	2.2
12	0	25	18	1	14	58	3.48	8.4	2.35	2.14
13	0	23	16	1	15	55	3.54	8.38	2.39	2.47
14	0	24	13	1	15	53	3.62	8.53	2.43	2.2
15	0	24	17	1	13	55	3.57	8.93	2.41	2.15
16	0	23	17	1	18	59	3.38	8.78	2.38	2.2
17	0	24	15	1	15	55	3.49	9.23	2.46	2.13
18	0	24	19	1	15	59	3.39	8.27	2.35	2.22
19	0	24	14	1	15	54	3.58	8.26	2.38	2.13
20	0	24	13	0	16	53	3.49	9.58	2.44	2.13

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



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

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

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

Number of violated restraints						Fraction of the ensemble	
UNNAMED	PSI	PHI	CHI2	CHI1	Total	Count <sup>1</sup>	%
0	2	2	0	4	8	1	5.0
0	0	1	0	0	1	2	10.0
0	3	3	0	0	6	3	15.0
0	1	3	0	2	6	4	20.0
0	0	0	0	1	1	5	25.0
0	0	0	0	1	1	6	30.0
0	3	1	1	0	5	7	35.0
0	0	1	0	0	1	8	40.0
0	1	0	0	0	1	9	45.0
0	0	0	0	0	0	10	50.0
0	2	1	1	0	4	11	55.0

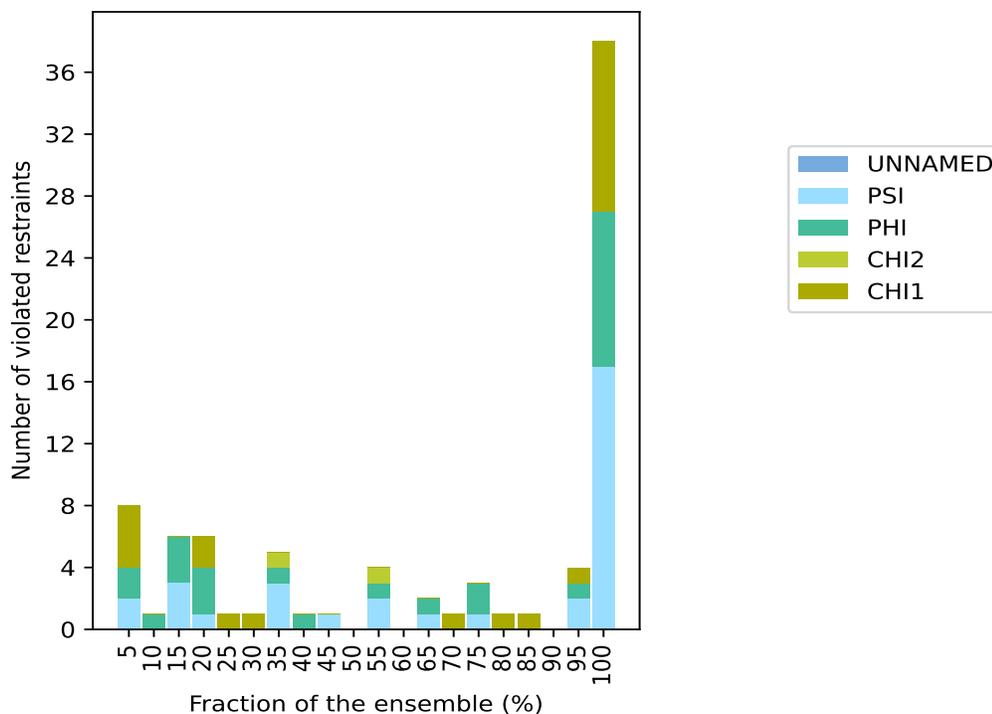
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Number of violated restraints						Fraction of the ensemble	
UNNAMED	PSI	PHI	CHI2	CHI1	Total	Count <sup>1</sup>	%
0	0	0	0	0	0	12	60.0
0	1	1	0	0	2	13	65.0
0	0	0	0	1	1	14	70.0
0	1	2	0	0	3	15	75.0
0	0	0	0	1	1	16	80.0
0	0	0	0	1	1	17	85.0
0	0	0	0	0	0	18	90.0
0	2	1	0	1	4	19	95.0
0	17	10	0	11	38	20	100.0

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

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

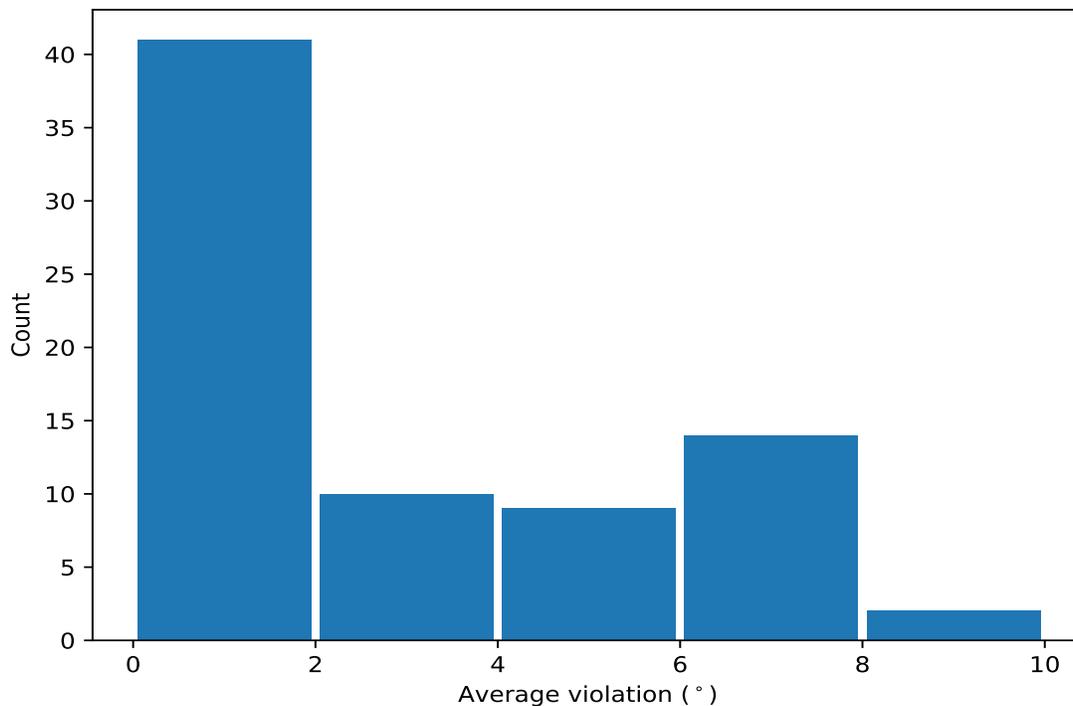


## 10.4 Most violated dihedral-angle restraints in the ensemble [i](#)

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

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

in the ensemble



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

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

Key	Atom-1	Atom-2	Atom-3	Atom-4	Models <sup>1</sup>	Mean	SD <sup>2</sup>	Median
(1,71)	1:28:A:VAL:C	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	20	7.64	0.28	7.6
(1,97)	1:43:A:CYS:C	1:44:A:ASP:N	1:44:A:ASP:CA	1:44:A:ASP:C	20	7.61	1.07	7.62
(1,72)	1:28:B:VAL:C	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:C	20	7.56	0.34	7.56
(1,98)	1:43:B:CYS:C	1:44:B:ASP:N	1:44:B:ASP:CA	1:44:B:ASP:C	20	7.32	0.98	6.71
(1,163)	1:43:A:CYS:N	1:43:A:CYS:CA	1:43:A:CYS:C	1:44:A:ASP:N	20	7.21	0.76	7.56
(1,213)	1:43:B:CYS:N	1:43:B:CYS:CA	1:43:B:CYS:C	1:44:B:ASP:N	20	7.02	0.71	6.61
(1,158)	1:37:A:GLU:N	1:37:A:GLU:CA	1:37:A:GLU:C	1:38:A:VAL:N	20	6.63	0.23	6.56
(1,208)	1:37:B:GLU:N	1:37:B:GLU:CA	1:37:B:GLU:C	1:38:B:VAL:N	20	6.63	0.32	6.7
(1,219)	1:51:B:GLY:N	1:51:B:GLY:CA	1:51:B:GLY:C	1:52:B:TYR:N	20	6.57	0.15	6.54
(1,169)	1:51:A:GLY:N	1:51:A:GLY:CA	1:51:A:GLY:C	1:52:A:TYR:N	20	6.55	0.14	6.52
(1,74)	1:29:B:LEU:C	1:30:B:PHE:N	1:30:B:PHE:CA	1:30:B:PHE:C	20	6.13	0.68	6.2
(1,73)	1:29:A:LEU:C	1:30:A:PHE:N	1:30:A:PHE:CA	1:30:A:PHE:C	20	6.08	0.35	6.11
(1,200)	1:27:B:GLU:N	1:27:B:GLU:CA	1:27:B:GLU:C	1:28:B:VAL:N	20	5.28	0.28	5.32
(1,171)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:C	1:55:A:HIS:N	20	5.22	0.38	5.3
(1,150)	1:27:A:GLU:N	1:27:A:GLU:CA	1:27:A:GLU:C	1:28:A:VAL:N	20	5.15	0.28	5.19
(1,221)	1:54:B:GLU:N	1:54:B:GLU:CA	1:54:B:GLU:C	1:55:B:HIS:N	20	5.04	0.38	4.97
(1,202)	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:C	1:30:B:PHE:N	20	4.77	0.43	4.9
(1,152)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	1:30:A:PHE:N	20	4.71	0.18	4.68
(1,159)	1:38:A:VAL:N	1:38:A:VAL:CA	1:38:A:VAL:C	1:39:A:SER:N	20	4.38	0.23	4.38
(1,209)	1:38:B:VAL:N	1:38:B:VAL:CA	1:38:B:VAL:C	1:39:B:SER:N	20	4.29	0.27	4.3

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Models <sup>1</sup>	Mean	SD <sup>2</sup>	Median
(1,270)	1:56:B:PHE:N	1:56:B:PHE:CA	1:56:B:PHE:CB	1:56:B:PHE:CG	20	4.11	0.51	4.34
(1,269)	1:56:A:PHE:N	1:56:A:PHE:CA	1:56:A:PHE:CB	1:56:A:PHE:CG	20	3.8	0.49	3.72
(1,267)	1:55:A:HIS:N	1:55:A:HIS:CA	1:55:A:HIS:CB	1:55:A:HIS:CG	20	2.65	0.75	2.76
(1,91)	1:39:A:SER:C	1:40:A:CYS:N	1:40:A:CYS:CA	1:40:A:CYS:C	20	2.23	0.62	2.35
(1,268)	1:55:B:HIS:N	1:55:B:HIS:CA	1:55:B:HIS:CB	1:55:B:HIS:CG	20	2.19	0.76	1.94
(1,88)	1:37:B:GLU:C	1:38:B:VAL:N	1:38:B:VAL:CA	1:38:B:VAL:C	20	2.16	0.43	2.12
(1,87)	1:37:A:GLU:C	1:38:A:VAL:N	1:38:A:VAL:CA	1:38:A:VAL:C	20	2.0	0.36	1.88
(1,244)	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:CB	1:29:B:LEU:CG	20	1.98	0.17	1.94
(1,243)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:CB	1:29:A:LEU:CG	20	1.93	0.16	1.96
(1,33)	1:33:A:PRO:N	1:33:A:PRO:CA	1:33:A:PRO:C	1:34:A:ALA:N	20	1.63	0.18	1.63
(1,271)	1:57:A:ARG:N	1:57:A:ARG:CA	1:57:A:ARG:CB	1:57:A:ARG:CG	20	1.62	0.19	1.6
(1,272)	1:57:B:ARG:N	1:57:B:ARG:CA	1:57:B:ARG:CB	1:57:B:ARG:CG	20	1.6	0.15	1.6
(1,34)	1:33:B:PRO:N	1:33:B:PRO:CA	1:33:B:PRO:C	1:34:B:ALA:N	20	1.52	0.19	1.5
(1,168)	1:49:A:LEU:N	1:49:A:LEU:CA	1:49:A:LEU:C	1:50:A:ASP:N	20	1.43	0.24	1.37
(1,249)	1:37:A:GLU:N	1:37:A:GLU:CA	1:37:A:GLU:CB	1:37:A:GLU:CG	20	1.27	0.09	1.25
(1,250)	1:37:B:GLU:N	1:37:B:GLU:CA	1:37:B:GLU:CB	1:37:B:GLU:CG	20	1.24	0.1	1.23
(1,79)	1:33:A:PRO:C	1:34:A:ALA:N	1:34:A:ALA:CA	1:34:A:ALA:C	20	1.22	0.16	1.2
(1,266)	1:54:B:GLU:N	1:54:B:GLU:CA	1:54:B:GLU:CB	1:54:B:GLU:CG	20	1.16	0.06	1.15
(1,177)	1:60:A:HIS:N	1:60:A:HIS:CA	1:60:A:HIS:C	1:61:A:PHE:N	19	2.46	0.75	2.17
(1,92)	1:39:B:SER:C	1:40:B:CYS:N	1:40:B:CYS:CA	1:40:B:CYS:C	19	2.0	0.65	2.12
(1,218)	1:49:B:LEU:N	1:49:B:LEU:CA	1:49:B:LEU:C	1:50:B:ASP:N	19	1.34	0.18	1.3
(1,265)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:CB	1:54:A:GLU:CG	19	1.18	0.1	1.14
(1,257)	1:41:A:LEU:N	1:41:A:LEU:CA	1:41:A:LEU:CB	1:41:A:LEU:CG	17	1.28	0.19	1.22
(1,258)	1:41:B:LEU:N	1:41:B:LEU:CA	1:41:B:LEU:CB	1:41:B:LEU:CG	16	1.24	0.16	1.21
(1,227)	1:60:B:HIS:N	1:60:B:HIS:CA	1:60:B:HIS:C	1:61:B:PHE:N	15	1.74	0.52	1.58
(1,61)	1:22:A:ASN:C	1:23:A:LEU:N	1:23:A:LEU:CA	1:23:A:LEU:C	15	1.45	0.2	1.37
(1,80)	1:33:B:PRO:C	1:34:B:ALA:N	1:34:B:ALA:CA	1:34:B:ALA:C	15	1.2	0.15	1.17
(1,277)	1:61:A:PHE:N	1:61:A:PHE:CA	1:61:A:PHE:CB	1:61:A:PHE:CG	14	1.66	0.31	1.71
(1,164)	1:44:A:ASP:N	1:44:A:ASP:CA	1:44:A:ASP:C	1:45:A:GLN:N	13	1.59	0.45	1.37
(1,62)	1:22:B:ASN:C	1:23:B:LEU:N	1:23:B:LEU:CA	1:23:B:LEU:C	13	1.57	0.3	1.67
(1,96)	1:42:B:LEU:C	1:43:B:CYS:N	1:43:B:CYS:CA	1:43:B:CYS:C	11	8.4	0.14	8.4
(1,212)	1:42:B:LEU:N	1:42:B:LEU:CA	1:42:B:LEU:C	1:43:B:CYS:N	11	7.27	0.12	7.26
(1,215)	1:45:B:GLN:N	1:45:B:GLN:CA	1:45:B:GLN:C	1:46:B:ARG:N	11	1.58	0.2	1.56
(1,22)	1:47:B:LEU:CA	1:47:B:LEU:CB	1:47:B:LEU:CG	1:47:B:LEU:CD1	11	1.31	0.11	1.29
(1,214)	1:44:B:ASP:N	1:44:B:ASP:CA	1:44:B:ASP:C	1:45:B:GLN:N	9	1.44	0.48	1.19
(1,113)	1:54:A:GLU:C	1:55:A:HIS:N	1:55:A:HIS:CA	1:55:A:HIS:C	8	1.52	0.51	1.27
(1,95)	1:42:A:LEU:C	1:43:A:CYS:N	1:43:A:CYS:CA	1:43:A:CYS:C	7	8.53	0.22	8.43
(1,162)	1:42:A:LEU:N	1:42:A:LEU:CA	1:42:A:LEU:C	1:43:A:CYS:N	7	7.4	0.2	7.37
(1,165)	1:45:A:GLN:N	1:45:A:GLN:CA	1:45:A:GLN:C	1:46:A:ARG:N	7	1.62	0.16	1.71
(1,195)	1:22:B:ASN:N	1:22:B:ASN:CA	1:22:B:ASN:C	1:23:B:LEU:N	7	1.23	0.2	1.21
(1,21)	1:47:A:LEU:CA	1:47:A:LEU:CB	1:47:A:LEU:CG	1:47:A:LEU:CD1	7	1.22	0.09	1.18
(1,278)	1:61:B:PHE:N	1:61:B:PHE:CA	1:61:B:PHE:CB	1:61:B:PHE:CG	6	1.55	0.15	1.5
(1,256)	1:40:B:CYS:N	1:40:B:CYS:CA	1:40:B:CYS:CB	1:40:B:CYS:SG	5	1.07	0.04	1.05
(1,114)	1:54:B:GLU:C	1:55:B:HIS:N	1:55:B:HIS:CA	1:55:B:HIS:C	4	1.4	0.39	1.35
(1,123)	1:60:A:HIS:C	1:61:A:PHE:N	1:61:A:PHE:CA	1:61:A:PHE:C	4	1.35	0.11	1.37
(1,145)	1:22:A:ASN:N	1:22:A:ASN:CA	1:22:A:ASN:C	1:23:A:LEU:N	4	1.26	0.42	1.03
(1,276)	1:59:B:LYS:N	1:59:B:LYS:CA	1:59:B:LYS:CB	1:59:B:LYS:CG	4	1.14	0.07	1.14
(1,102)	1:45:B:GLN:C	1:46:B:ARG:N	1:46:B:ARG:CA	1:46:B:ARG:C	4	1.12	0.08	1.1
(1,255)	1:40:A:CYS:N	1:40:A:CYS:CA	1:40:A:CYS:CB	1:40:A:CYS:SG	4	1.11	0.03	1.1
(1,115)	1:56:A:PHE:C	1:57:A:ARG:N	1:57:A:ARG:CA	1:57:A:ARG:C	3	2.22	0.12	2.22
(1,149)	1:26:A:GLY:N	1:26:A:GLY:CA	1:26:A:GLY:C	1:27:A:GLU:N	3	1.23	0.07	1.19

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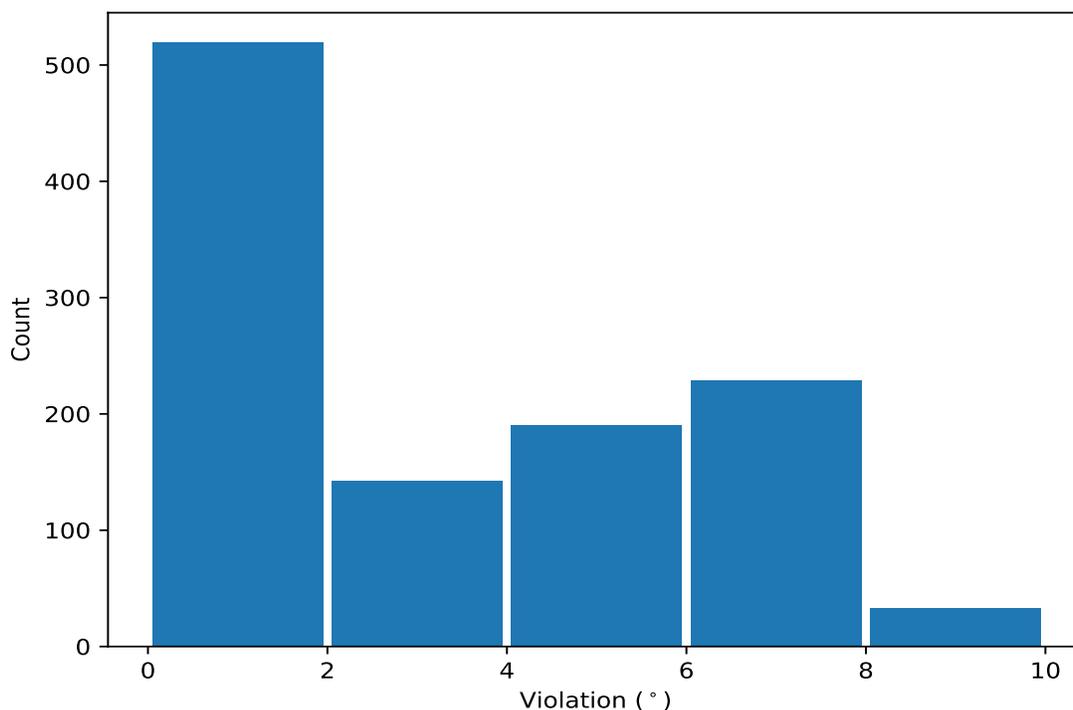
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models <sup>1</sup>	Mean	SD <sup>2</sup>	Median
(1,101)	1:45:A:GLN:C	1:46:A:ARG:N	1:46:A:ARG:CA	1:46:A:ARG:C	3	1.22	0.11	1.26
(1,199)	1:26:B:GLY:N	1:26:B:GLY:CA	1:26:B:GLY:C	1:27:B:GLU:N	3	1.19	0.12	1.23
(1,143)	1:20:A:TYR:N	1:20:A:TYR:CA	1:20:A:TYR:C	1:21:A:HIS:N	3	1.14	0.1	1.12
(1,54)	1:17:B:ALA:C	1:18:B:GLY:N	1:18:B:GLY:CA	1:18:B:GLY:C	3	1.11	0.06	1.13
(1,116)	1:56:B:PHE:C	1:57:B:ARG:N	1:57:B:ARG:CA	1:57:B:ARG:C	2	2.24	0.02	2.24

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

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

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

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



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

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

Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,98)	1:43:B:CYS:C	1:44:B:ASP:N	1:44:B:ASP:CA	1:44:B:ASP:C	3	9.77
(1,97)	1:43:A:CYS:C	1:44:A:ASP:N	1:44:A:ASP:CA	1:44:A:ASP:C	7	9.73

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,98)	1:43:B:CYS:C	1:44:B:ASP:N	1:44:B:ASP:CA	1:44:B:ASP:C	20	9.58
(1,97)	1:43:A:CYS:C	1:44:A:ASP:N	1:44:A:ASP:CA	1:44:A:ASP:C	9	9.47
(1,97)	1:43:A:CYS:C	1:44:A:ASP:N	1:44:A:ASP:CA	1:44:A:ASP:C	1	9.31
(1,97)	1:43:A:CYS:C	1:44:A:ASP:N	1:44:A:ASP:CA	1:44:A:ASP:C	17	9.23
(1,95)	1:42:A:LEU:C	1:43:A:CYS:N	1:43:A:CYS:CA	1:43:A:CYS:C	15	8.93
(1,95)	1:42:A:LEU:C	1:43:A:CYS:N	1:43:A:CYS:CA	1:43:A:CYS:C	16	8.78
(1,96)	1:42:B:LEU:C	1:43:B:CYS:N	1:43:B:CYS:CA	1:43:B:CYS:C	9	8.67
(1,96)	1:42:B:LEU:C	1:43:B:CYS:N	1:43:B:CYS:CA	1:43:B:CYS:C	6	8.54
(1,96)	1:42:B:LEU:C	1:43:B:CYS:N	1:43:B:CYS:CA	1:43:B:CYS:C	14	8.53
(1,95)	1:42:A:LEU:C	1:43:A:CYS:N	1:43:A:CYS:CA	1:43:A:CYS:C	8	8.53
(1,72)	1:28:B:VAL:C	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:C	16	8.46
(1,96)	1:42:B:LEU:C	1:43:B:CYS:N	1:43:B:CYS:CA	1:43:B:CYS:C	1	8.44
(1,95)	1:42:A:LEU:C	1:43:A:CYS:N	1:43:A:CYS:CA	1:43:A:CYS:C	10	8.43
(1,96)	1:42:B:LEU:C	1:43:B:CYS:N	1:43:B:CYS:CA	1:43:B:CYS:C	11	8.41
(1,96)	1:42:B:LEU:C	1:43:B:CYS:N	1:43:B:CYS:CA	1:43:B:CYS:C	12	8.4
(1,96)	1:42:B:LEU:C	1:43:B:CYS:N	1:43:B:CYS:CA	1:43:B:CYS:C	17	8.4
(1,95)	1:42:A:LEU:C	1:43:A:CYS:N	1:43:A:CYS:CA	1:43:A:CYS:C	6	8.4
(1,95)	1:42:A:LEU:C	1:43:A:CYS:N	1:43:A:CYS:CA	1:43:A:CYS:C	13	8.38
(1,71)	1:28:A:VAL:C	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	6	8.37
(1,96)	1:42:B:LEU:C	1:43:B:CYS:N	1:43:B:CYS:CA	1:43:B:CYS:C	8	8.32
(1,96)	1:42:B:LEU:C	1:43:B:CYS:N	1:43:B:CYS:CA	1:43:B:CYS:C	10	8.27
(1,95)	1:42:A:LEU:C	1:43:A:CYS:N	1:43:A:CYS:CA	1:43:A:CYS:C	18	8.27
(1,163)	1:43:A:CYS:N	1:43:A:CYS:CA	1:43:A:CYS:C	1:44:A:ASP:N	5	8.26
(1,96)	1:42:B:LEU:C	1:43:B:CYS:N	1:43:B:CYS:CA	1:43:B:CYS:C	19	8.26
(1,72)	1:28:B:VAL:C	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:C	15	8.25
(1,71)	1:28:A:VAL:C	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	7	8.22
(1,163)	1:43:A:CYS:N	1:43:A:CYS:CA	1:43:A:CYS:C	1:44:A:ASP:N	3	8.13
(1,163)	1:43:A:CYS:N	1:43:A:CYS:CA	1:43:A:CYS:C	1:44:A:ASP:N	4	8.13
(1,96)	1:42:B:LEU:C	1:43:B:CYS:N	1:43:B:CYS:CA	1:43:B:CYS:C	7	8.13
(1,213)	1:43:B:CYS:N	1:43:B:CYS:CA	1:43:B:CYS:C	1:44:B:ASP:N	2	8.09
(1,213)	1:43:B:CYS:N	1:43:B:CYS:CA	1:43:B:CYS:C	1:44:B:ASP:N	5	8.08
(1,163)	1:43:A:CYS:N	1:43:A:CYS:CA	1:43:A:CYS:C	1:44:A:ASP:N	14	7.96
(1,98)	1:43:B:CYS:C	1:44:B:ASP:N	1:44:B:ASP:CA	1:44:B:ASP:C	15	7.92
(1,72)	1:28:B:VAL:C	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:C	10	7.91
(1,97)	1:43:A:CYS:C	1:44:A:ASP:N	1:44:A:ASP:CA	1:44:A:ASP:C	3	7.89
(1,98)	1:43:B:CYS:C	1:44:B:ASP:N	1:44:B:ASP:CA	1:44:B:ASP:C	16	7.88
(1,98)	1:43:B:CYS:C	1:44:B:ASP:N	1:44:B:ASP:CA	1:44:B:ASP:C	4	7.87
(1,98)	1:43:B:CYS:C	1:44:B:ASP:N	1:44:B:ASP:CA	1:44:B:ASP:C	18	7.86
(1,97)	1:43:A:CYS:C	1:44:A:ASP:N	1:44:A:ASP:CA	1:44:A:ASP:C	4	7.86
(1,213)	1:43:B:CYS:N	1:43:B:CYS:CA	1:43:B:CYS:C	1:44:B:ASP:N	3	7.85
(1,71)	1:28:A:VAL:C	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	15	7.85
(1,71)	1:28:A:VAL:C	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	5	7.84
(1,98)	1:43:B:CYS:C	1:44:B:ASP:N	1:44:B:ASP:CA	1:44:B:ASP:C	13	7.82
(1,71)	1:28:A:VAL:C	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	14	7.81
(1,213)	1:43:B:CYS:N	1:43:B:CYS:CA	1:43:B:CYS:C	1:44:B:ASP:N	16	7.79
(1,71)	1:28:A:VAL:C	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	19	7.79
(1,163)	1:43:A:CYS:N	1:43:A:CYS:CA	1:43:A:CYS:C	1:44:A:ASP:N	19	7.78
(1,163)	1:43:A:CYS:N	1:43:A:CYS:CA	1:43:A:CYS:C	1:44:A:ASP:N	20	7.78
(1,163)	1:43:A:CYS:N	1:43:A:CYS:CA	1:43:A:CYS:C	1:44:A:ASP:N	2	7.76
(1,98)	1:43:B:CYS:C	1:44:B:ASP:N	1:44:B:ASP:CA	1:44:B:ASP:C	5	7.76
(1,97)	1:43:A:CYS:C	1:44:A:ASP:N	1:44:A:ASP:CA	1:44:A:ASP:C	20	7.76

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,213)	1:43:B:CYS:N	1:43:B:CYS:CA	1:43:B:CYS:C	1:44:B:ASP:N	13	7.75
(1,97)	1:43:A:CYS:C	1:44:A:ASP:N	1:44:A:ASP:CA	1:44:A:ASP:C	5	7.75
(1,71)	1:28:A:VAL:C	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	12	7.74
(1,213)	1:43:B:CYS:N	1:43:B:CYS:CA	1:43:B:CYS:C	1:44:B:ASP:N	18	7.72
(1,97)	1:43:A:CYS:C	1:44:A:ASP:N	1:44:A:ASP:CA	1:44:A:ASP:C	2	7.7
(1,72)	1:28:B:VAL:C	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:C	1	7.69
(1,72)	1:28:B:VAL:C	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:C	13	7.69
(1,71)	1:28:A:VAL:C	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	8	7.69
(1,97)	1:43:A:CYS:C	1:44:A:ASP:N	1:44:A:ASP:CA	1:44:A:ASP:C	14	7.68
(1,162)	1:42:A:LEU:N	1:42:A:LEU:CA	1:42:A:LEU:C	1:43:A:CYS:N	16	7.67
(1,213)	1:43:B:CYS:N	1:43:B:CYS:CA	1:43:B:CYS:C	1:44:B:ASP:N	4	7.65
(1,162)	1:42:A:LEU:N	1:42:A:LEU:CA	1:42:A:LEU:C	1:43:A:CYS:N	15	7.64
(1,163)	1:43:A:CYS:N	1:43:A:CYS:CA	1:43:A:CYS:C	1:44:A:ASP:N	7	7.63
(1,72)	1:28:B:VAL:C	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:C	6	7.63
(1,71)	1:28:A:VAL:C	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	16	7.63
(1,98)	1:43:B:CYS:C	1:44:B:ASP:N	1:44:B:ASP:CA	1:44:B:ASP:C	2	7.62
(1,72)	1:28:B:VAL:C	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:C	17	7.62
(1,72)	1:28:B:VAL:C	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:C	20	7.62
(1,71)	1:28:A:VAL:C	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	18	7.61
(1,213)	1:43:B:CYS:N	1:43:B:CYS:CA	1:43:B:CYS:C	1:44:B:ASP:N	15	7.6
(1,163)	1:43:A:CYS:N	1:43:A:CYS:CA	1:43:A:CYS:C	1:44:A:ASP:N	11	7.6
(1,163)	1:43:A:CYS:N	1:43:A:CYS:CA	1:43:A:CYS:C	1:44:A:ASP:N	12	7.6
(1,71)	1:28:A:VAL:C	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	10	7.6
(1,72)	1:28:B:VAL:C	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:C	11	7.57
(1,97)	1:43:A:CYS:C	1:44:A:ASP:N	1:44:A:ASP:CA	1:44:A:ASP:C	19	7.56
(1,72)	1:28:B:VAL:C	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:C	8	7.56
(1,71)	1:28:A:VAL:C	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	4	7.56
(1,72)	1:28:B:VAL:C	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:C	9	7.55
(1,97)	1:43:A:CYS:C	1:44:A:ASP:N	1:44:A:ASP:CA	1:44:A:ASP:C	12	7.54
(1,71)	1:28:A:VAL:C	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	9	7.54
(1,163)	1:43:A:CYS:N	1:43:A:CYS:CA	1:43:A:CYS:C	1:44:A:ASP:N	17	7.53
(1,71)	1:28:A:VAL:C	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	17	7.53
(1,72)	1:28:B:VAL:C	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:C	4	7.52
(1,162)	1:42:A:LEU:N	1:42:A:LEU:CA	1:42:A:LEU:C	1:43:A:CYS:N	8	7.5
(1,71)	1:28:A:VAL:C	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	1	7.49
(1,213)	1:43:B:CYS:N	1:43:B:CYS:CA	1:43:B:CYS:C	1:44:B:ASP:N	20	7.47
(1,72)	1:28:B:VAL:C	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:C	18	7.47
(1,212)	1:42:B:LEU:N	1:42:B:LEU:CA	1:42:B:LEU:C	1:43:B:CYS:N	9	7.46
(1,97)	1:43:A:CYS:C	1:44:A:ASP:N	1:44:A:ASP:CA	1:44:A:ASP:C	11	7.46
(1,72)	1:28:B:VAL:C	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:C	7	7.44
(1,71)	1:28:A:VAL:C	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	2	7.44
(1,71)	1:28:A:VAL:C	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	11	7.42
(1,212)	1:42:B:LEU:N	1:42:B:LEU:CA	1:42:B:LEU:C	1:43:B:CYS:N	6	7.37
(1,212)	1:42:B:LEU:N	1:42:B:LEU:CA	1:42:B:LEU:C	1:43:B:CYS:N	14	7.37
(1,162)	1:42:A:LEU:N	1:42:A:LEU:CA	1:42:A:LEU:C	1:43:A:CYS:N	13	7.37
(1,212)	1:42:B:LEU:N	1:42:B:LEU:CA	1:42:B:LEU:C	1:43:B:CYS:N	17	7.36
(1,212)	1:42:B:LEU:N	1:42:B:LEU:CA	1:42:B:LEU:C	1:43:B:CYS:N	8	7.34
(1,162)	1:42:A:LEU:N	1:42:A:LEU:CA	1:42:A:LEU:C	1:43:A:CYS:N	10	7.34
(1,72)	1:28:B:VAL:C	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:C	3	7.32
(1,71)	1:28:A:VAL:C	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	20	7.32
(1,72)	1:28:B:VAL:C	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:C	12	7.27

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,212)	1:42:B:LEU:N	1:42:B:LEU:CA	1:42:B:LEU:C	1:43:B:CYS:N	10	7.26
(1,71)	1:28:A:VAL:C	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	3	7.25
(1,212)	1:42:B:LEU:N	1:42:B:LEU:CA	1:42:B:LEU:C	1:43:B:CYS:N	1	7.24
(1,212)	1:42:B:LEU:N	1:42:B:LEU:CA	1:42:B:LEU:C	1:43:B:CYS:N	7	7.23
(1,72)	1:28:B:VAL:C	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:C	19	7.21
(1,212)	1:42:B:LEU:N	1:42:B:LEU:CA	1:42:B:LEU:C	1:43:B:CYS:N	12	7.2
(1,162)	1:42:A:LEU:N	1:42:A:LEU:CA	1:42:A:LEU:C	1:43:A:CYS:N	6	7.2
(1,71)	1:28:A:VAL:C	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	13	7.2
(1,163)	1:43:A:CYS:N	1:43:A:CYS:CA	1:43:A:CYS:C	1:44:A:ASP:N	9	7.18
(1,208)	1:37:B:GLU:N	1:37:B:GLU:CA	1:37:B:GLU:C	1:38:B:VAL:N	7	7.17
(1,163)	1:43:A:CYS:N	1:43:A:CYS:CA	1:43:A:CYS:C	1:44:A:ASP:N	1	7.17
(1,72)	1:28:B:VAL:C	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:C	5	7.17
(1,72)	1:28:B:VAL:C	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:C	14	7.15
(1,72)	1:28:B:VAL:C	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:C	2	7.12
(1,208)	1:37:B:GLU:N	1:37:B:GLU:CA	1:37:B:GLU:C	1:38:B:VAL:N	11	7.11
(1,212)	1:42:B:LEU:N	1:42:B:LEU:CA	1:42:B:LEU:C	1:43:B:CYS:N	19	7.09
(1,162)	1:42:A:LEU:N	1:42:A:LEU:CA	1:42:A:LEU:C	1:43:A:CYS:N	18	7.08
(1,212)	1:42:B:LEU:N	1:42:B:LEU:CA	1:42:B:LEU:C	1:43:B:CYS:N	11	7.02
(1,158)	1:37:A:GLU:N	1:37:A:GLU:CA	1:37:A:GLU:C	1:38:A:VAL:N	4	7.02
(1,158)	1:37:A:GLU:N	1:37:A:GLU:CA	1:37:A:GLU:C	1:38:A:VAL:N	6	7.01
(1,208)	1:37:B:GLU:N	1:37:B:GLU:CA	1:37:B:GLU:C	1:38:B:VAL:N	13	6.93
(1,208)	1:37:B:GLU:N	1:37:B:GLU:CA	1:37:B:GLU:C	1:38:B:VAL:N	19	6.93
(1,158)	1:37:A:GLU:N	1:37:A:GLU:CA	1:37:A:GLU:C	1:38:A:VAL:N	14	6.93
(1,219)	1:51:B:GLY:N	1:51:B:GLY:CA	1:51:B:GLY:C	1:52:B:TYR:N	20	6.91
(1,158)	1:37:A:GLU:N	1:37:A:GLU:CA	1:37:A:GLU:C	1:38:A:VAL:N	5	6.91
(1,208)	1:37:B:GLU:N	1:37:B:GLU:CA	1:37:B:GLU:C	1:38:B:VAL:N	5	6.89
(1,158)	1:37:A:GLU:N	1:37:A:GLU:CA	1:37:A:GLU:C	1:38:A:VAL:N	18	6.88
(1,219)	1:51:B:GLY:N	1:51:B:GLY:CA	1:51:B:GLY:C	1:52:B:TYR:N	14	6.86
(1,208)	1:37:B:GLU:N	1:37:B:GLU:CA	1:37:B:GLU:C	1:38:B:VAL:N	8	6.86
(1,158)	1:37:A:GLU:N	1:37:A:GLU:CA	1:37:A:GLU:C	1:38:A:VAL:N	13	6.85
(1,74)	1:29:B:LEU:C	1:30:B:PHE:N	1:30:B:PHE:CA	1:30:B:PHE:C	5	6.84
(1,169)	1:51:A:GLY:N	1:51:A:GLY:CA	1:51:A:GLY:C	1:52:A:TYR:N	15	6.83
(1,97)	1:43:A:CYS:C	1:44:A:ASP:N	1:44:A:ASP:CA	1:44:A:ASP:C	18	6.83
(1,208)	1:37:B:GLU:N	1:37:B:GLU:CA	1:37:B:GLU:C	1:38:B:VAL:N	9	6.82
(1,169)	1:51:A:GLY:N	1:51:A:GLY:CA	1:51:A:GLY:C	1:52:A:TYR:N	1	6.82
(1,219)	1:51:B:GLY:N	1:51:B:GLY:CA	1:51:B:GLY:C	1:52:B:TYR:N	3	6.81
(1,208)	1:37:B:GLU:N	1:37:B:GLU:CA	1:37:B:GLU:C	1:38:B:VAL:N	14	6.8
(1,219)	1:51:B:GLY:N	1:51:B:GLY:CA	1:51:B:GLY:C	1:52:B:TYR:N	7	6.77
(1,208)	1:37:B:GLU:N	1:37:B:GLU:CA	1:37:B:GLU:C	1:38:B:VAL:N	10	6.76
(1,208)	1:37:B:GLU:N	1:37:B:GLU:CA	1:37:B:GLU:C	1:38:B:VAL:N	1	6.74
(1,98)	1:43:B:CYS:C	1:44:B:ASP:N	1:44:B:ASP:CA	1:44:B:ASP:C	7	6.74
(1,158)	1:37:A:GLU:N	1:37:A:GLU:CA	1:37:A:GLU:C	1:38:A:VAL:N	10	6.73
(1,158)	1:37:A:GLU:N	1:37:A:GLU:CA	1:37:A:GLU:C	1:38:A:VAL:N	7	6.71
(1,169)	1:51:A:GLY:N	1:51:A:GLY:CA	1:51:A:GLY:C	1:52:A:TYR:N	17	6.69
(1,74)	1:29:B:LEU:C	1:30:B:PHE:N	1:30:B:PHE:CA	1:30:B:PHE:C	12	6.69
(1,98)	1:43:B:CYS:C	1:44:B:ASP:N	1:44:B:ASP:CA	1:44:B:ASP:C	11	6.68
(1,169)	1:51:A:GLY:N	1:51:A:GLY:CA	1:51:A:GLY:C	1:52:A:TYR:N	8	6.67
(1,169)	1:51:A:GLY:N	1:51:A:GLY:CA	1:51:A:GLY:C	1:52:A:TYR:N	9	6.67
(1,219)	1:51:B:GLY:N	1:51:B:GLY:CA	1:51:B:GLY:C	1:52:B:TYR:N	12	6.66
(1,213)	1:43:B:CYS:N	1:43:B:CYS:CA	1:43:B:CYS:C	1:44:B:ASP:N	7	6.66
(1,208)	1:37:B:GLU:N	1:37:B:GLU:CA	1:37:B:GLU:C	1:38:B:VAL:N	4	6.66

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,158)	1:37:A:GLU:N	1:37:A:GLU:CA	1:37:A:GLU:C	1:38:A:VAL:N	19	6.66
(1,98)	1:43:B:CYS:C	1:44:B:ASP:N	1:44:B:ASP:CA	1:44:B:ASP:C	17	6.66
(1,74)	1:29:B:LEU:C	1:30:B:PHE:N	1:30:B:PHE:CA	1:30:B:PHE:C	11	6.66
(1,74)	1:29:B:LEU:C	1:30:B:PHE:N	1:30:B:PHE:CA	1:30:B:PHE:C	19	6.66
(1,73)	1:29:A:LEU:C	1:30:A:PHE:N	1:30:A:PHE:CA	1:30:A:PHE:C	20	6.66
(1,169)	1:51:A:GLY:N	1:51:A:GLY:CA	1:51:A:GLY:C	1:52:A:TYR:N	20	6.65
(1,98)	1:43:B:CYS:C	1:44:B:ASP:N	1:44:B:ASP:CA	1:44:B:ASP:C	12	6.65
(1,219)	1:51:B:GLY:N	1:51:B:GLY:CA	1:51:B:GLY:C	1:52:B:TYR:N	15	6.63
(1,208)	1:37:B:GLU:N	1:37:B:GLU:CA	1:37:B:GLU:C	1:38:B:VAL:N	20	6.63
(1,73)	1:29:A:LEU:C	1:30:A:PHE:N	1:30:A:PHE:CA	1:30:A:PHE:C	3	6.63
(1,219)	1:51:B:GLY:N	1:51:B:GLY:CA	1:51:B:GLY:C	1:52:B:TYR:N	13	6.59
(1,74)	1:29:B:LEU:C	1:30:B:PHE:N	1:30:B:PHE:CA	1:30:B:PHE:C	1	6.59
(1,74)	1:29:B:LEU:C	1:30:B:PHE:N	1:30:B:PHE:CA	1:30:B:PHE:C	6	6.59
(1,169)	1:51:A:GLY:N	1:51:A:GLY:CA	1:51:A:GLY:C	1:52:A:TYR:N	7	6.58
(1,98)	1:43:B:CYS:C	1:44:B:ASP:N	1:44:B:ASP:CA	1:44:B:ASP:C	1	6.58
(1,98)	1:43:B:CYS:C	1:44:B:ASP:N	1:44:B:ASP:CA	1:44:B:ASP:C	19	6.58
(1,158)	1:37:A:GLU:N	1:37:A:GLU:CA	1:37:A:GLU:C	1:38:A:VAL:N	11	6.57
(1,74)	1:29:B:LEU:C	1:30:B:PHE:N	1:30:B:PHE:CA	1:30:B:PHE:C	7	6.57
(1,219)	1:51:B:GLY:N	1:51:B:GLY:CA	1:51:B:GLY:C	1:52:B:TYR:N	10	6.56
(1,219)	1:51:B:GLY:N	1:51:B:GLY:CA	1:51:B:GLY:C	1:52:B:TYR:N	11	6.56
(1,213)	1:43:B:CYS:N	1:43:B:CYS:CA	1:43:B:CYS:C	1:44:B:ASP:N	19	6.56
(1,98)	1:43:B:CYS:C	1:44:B:ASP:N	1:44:B:ASP:CA	1:44:B:ASP:C	6	6.56
(1,98)	1:43:B:CYS:C	1:44:B:ASP:N	1:44:B:ASP:CA	1:44:B:ASP:C	10	6.56
(1,219)	1:51:B:GLY:N	1:51:B:GLY:CA	1:51:B:GLY:C	1:52:B:TYR:N	17	6.55
(1,208)	1:37:B:GLU:N	1:37:B:GLU:CA	1:37:B:GLU:C	1:38:B:VAL:N	6	6.55
(1,158)	1:37:A:GLU:N	1:37:A:GLU:CA	1:37:A:GLU:C	1:38:A:VAL:N	12	6.55
(1,219)	1:51:B:GLY:N	1:51:B:GLY:CA	1:51:B:GLY:C	1:52:B:TYR:N	5	6.54
(1,213)	1:43:B:CYS:N	1:43:B:CYS:CA	1:43:B:CYS:C	1:44:B:ASP:N	6	6.54
(1,213)	1:43:B:CYS:N	1:43:B:CYS:CA	1:43:B:CYS:C	1:44:B:ASP:N	14	6.54
(1,169)	1:51:A:GLY:N	1:51:A:GLY:CA	1:51:A:GLY:C	1:52:A:TYR:N	6	6.54
(1,169)	1:51:A:GLY:N	1:51:A:GLY:CA	1:51:A:GLY:C	1:52:A:TYR:N	10	6.54
(1,158)	1:37:A:GLU:N	1:37:A:GLU:CA	1:37:A:GLU:C	1:38:A:VAL:N	16	6.54
(1,73)	1:29:A:LEU:C	1:30:A:PHE:N	1:30:A:PHE:CA	1:30:A:PHE:C	5	6.54
(1,219)	1:51:B:GLY:N	1:51:B:GLY:CA	1:51:B:GLY:C	1:52:B:TYR:N	4	6.53
(1,213)	1:43:B:CYS:N	1:43:B:CYS:CA	1:43:B:CYS:C	1:44:B:ASP:N	17	6.53
(1,169)	1:51:A:GLY:N	1:51:A:GLY:CA	1:51:A:GLY:C	1:52:A:TYR:N	14	6.53
(1,74)	1:29:B:LEU:C	1:30:B:PHE:N	1:30:B:PHE:CA	1:30:B:PHE:C	9	6.53
(1,169)	1:51:A:GLY:N	1:51:A:GLY:CA	1:51:A:GLY:C	1:52:A:TYR:N	13	6.52
(1,208)	1:37:B:GLU:N	1:37:B:GLU:CA	1:37:B:GLU:C	1:38:B:VAL:N	12	6.51
(1,169)	1:51:A:GLY:N	1:51:A:GLY:CA	1:51:A:GLY:C	1:52:A:TYR:N	2	6.51
(1,169)	1:51:A:GLY:N	1:51:A:GLY:CA	1:51:A:GLY:C	1:52:A:TYR:N	3	6.51
(1,98)	1:43:B:CYS:C	1:44:B:ASP:N	1:44:B:ASP:CA	1:44:B:ASP:C	14	6.51
(1,97)	1:43:A:CYS:C	1:44:A:ASP:N	1:44:A:ASP:CA	1:44:A:ASP:C	13	6.51
(1,97)	1:43:A:CYS:C	1:44:A:ASP:N	1:44:A:ASP:CA	1:44:A:ASP:C	6	6.5
(1,97)	1:43:A:CYS:C	1:44:A:ASP:N	1:44:A:ASP:CA	1:44:A:ASP:C	15	6.5
(1,213)	1:43:B:CYS:N	1:43:B:CYS:CA	1:43:B:CYS:C	1:44:B:ASP:N	1	6.49
(1,169)	1:51:A:GLY:N	1:51:A:GLY:CA	1:51:A:GLY:C	1:52:A:TYR:N	18	6.49
(1,158)	1:37:A:GLU:N	1:37:A:GLU:CA	1:37:A:GLU:C	1:38:A:VAL:N	8	6.49
(1,158)	1:37:A:GLU:N	1:37:A:GLU:CA	1:37:A:GLU:C	1:38:A:VAL:N	20	6.49
(1,98)	1:43:B:CYS:C	1:44:B:ASP:N	1:44:B:ASP:CA	1:44:B:ASP:C	9	6.49
(1,219)	1:51:B:GLY:N	1:51:B:GLY:CA	1:51:B:GLY:C	1:52:B:TYR:N	9	6.48

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,219)	1:51:B:GLY:N	1:51:B:GLY:CA	1:51:B:GLY:C	1:52:B:TYR:N	18	6.48
(1,169)	1:51:A:GLY:N	1:51:A:GLY:CA	1:51:A:GLY:C	1:52:A:TYR:N	16	6.48
(1,219)	1:51:B:GLY:N	1:51:B:GLY:CA	1:51:B:GLY:C	1:52:B:TYR:N	1	6.47
(1,219)	1:51:B:GLY:N	1:51:B:GLY:CA	1:51:B:GLY:C	1:52:B:TYR:N	2	6.47
(1,158)	1:37:A:GLU:N	1:37:A:GLU:CA	1:37:A:GLU:C	1:38:A:VAL:N	2	6.47
(1,158)	1:37:A:GLU:N	1:37:A:GLU:CA	1:37:A:GLU:C	1:38:A:VAL:N	1	6.46
(1,158)	1:37:A:GLU:N	1:37:A:GLU:CA	1:37:A:GLU:C	1:38:A:VAL:N	9	6.45
(1,169)	1:51:A:GLY:N	1:51:A:GLY:CA	1:51:A:GLY:C	1:52:A:TYR:N	19	6.44
(1,219)	1:51:B:GLY:N	1:51:B:GLY:CA	1:51:B:GLY:C	1:52:B:TYR:N	19	6.43
(1,163)	1:43:A:CYS:N	1:43:A:CYS:CA	1:43:A:CYS:C	1:44:A:ASP:N	15	6.43
(1,97)	1:43:A:CYS:C	1:44:A:ASP:N	1:44:A:ASP:CA	1:44:A:ASP:C	10	6.42
(1,169)	1:51:A:GLY:N	1:51:A:GLY:CA	1:51:A:GLY:C	1:52:A:TYR:N	11	6.41
(1,73)	1:29:A:LEU:C	1:30:A:PHE:N	1:30:A:PHE:CA	1:30:A:PHE:C	16	6.41
(1,219)	1:51:B:GLY:N	1:51:B:GLY:CA	1:51:B:GLY:C	1:52:B:TYR:N	8	6.4
(1,219)	1:51:B:GLY:N	1:51:B:GLY:CA	1:51:B:GLY:C	1:52:B:TYR:N	6	6.39
(1,219)	1:51:B:GLY:N	1:51:B:GLY:CA	1:51:B:GLY:C	1:52:B:TYR:N	16	6.39
(1,169)	1:51:A:GLY:N	1:51:A:GLY:CA	1:51:A:GLY:C	1:52:A:TYR:N	12	6.39
(1,158)	1:37:A:GLU:N	1:37:A:GLU:CA	1:37:A:GLU:C	1:38:A:VAL:N	3	6.39
(1,208)	1:37:B:GLU:N	1:37:B:GLU:CA	1:37:B:GLU:C	1:38:B:VAL:N	17	6.36
(1,169)	1:51:A:GLY:N	1:51:A:GLY:CA	1:51:A:GLY:C	1:52:A:TYR:N	5	6.36
(1,97)	1:43:A:CYS:C	1:44:A:ASP:N	1:44:A:ASP:CA	1:44:A:ASP:C	8	6.36
(1,73)	1:29:A:LEU:C	1:30:A:PHE:N	1:30:A:PHE:CA	1:30:A:PHE:C	11	6.35
(1,163)	1:43:A:CYS:N	1:43:A:CYS:CA	1:43:A:CYS:C	1:44:A:ASP:N	13	6.34
(1,98)	1:43:B:CYS:C	1:44:B:ASP:N	1:44:B:ASP:CA	1:44:B:ASP:C	8	6.34
(1,74)	1:29:B:LEU:C	1:30:B:PHE:N	1:30:B:PHE:CA	1:30:B:PHE:C	2	6.34
(1,169)	1:51:A:GLY:N	1:51:A:GLY:CA	1:51:A:GLY:C	1:52:A:TYR:N	4	6.33
(1,158)	1:37:A:GLU:N	1:37:A:GLU:CA	1:37:A:GLU:C	1:38:A:VAL:N	17	6.33
(1,73)	1:29:A:LEU:C	1:30:A:PHE:N	1:30:A:PHE:CA	1:30:A:PHE:C	6	6.32
(1,213)	1:43:B:CYS:N	1:43:B:CYS:CA	1:43:B:CYS:C	1:44:B:ASP:N	12	6.31
(1,213)	1:43:B:CYS:N	1:43:B:CYS:CA	1:43:B:CYS:C	1:44:B:ASP:N	10	6.28
(1,213)	1:43:B:CYS:N	1:43:B:CYS:CA	1:43:B:CYS:C	1:44:B:ASP:N	8	6.27
(1,163)	1:43:A:CYS:N	1:43:A:CYS:CA	1:43:A:CYS:C	1:44:A:ASP:N	8	6.27
(1,73)	1:29:A:LEU:C	1:30:A:PHE:N	1:30:A:PHE:CA	1:30:A:PHE:C	13	6.27
(1,163)	1:43:A:CYS:N	1:43:A:CYS:CA	1:43:A:CYS:C	1:44:A:ASP:N	10	6.26
(1,208)	1:37:B:GLU:N	1:37:B:GLU:CA	1:37:B:GLU:C	1:38:B:VAL:N	16	6.25
(1,213)	1:43:B:CYS:N	1:43:B:CYS:CA	1:43:B:CYS:C	1:44:B:ASP:N	9	6.24
(1,208)	1:37:B:GLU:N	1:37:B:GLU:CA	1:37:B:GLU:C	1:38:B:VAL:N	18	6.24
(1,74)	1:29:B:LEU:C	1:30:B:PHE:N	1:30:B:PHE:CA	1:30:B:PHE:C	4	6.23
(1,208)	1:37:B:GLU:N	1:37:B:GLU:CA	1:37:B:GLU:C	1:38:B:VAL:N	2	6.22
(1,97)	1:43:A:CYS:C	1:44:A:ASP:N	1:44:A:ASP:CA	1:44:A:ASP:C	16	6.22
(1,73)	1:29:A:LEU:C	1:30:A:PHE:N	1:30:A:PHE:CA	1:30:A:PHE:C	4	6.19
(1,73)	1:29:A:LEU:C	1:30:A:PHE:N	1:30:A:PHE:CA	1:30:A:PHE:C	8	6.19
(1,208)	1:37:B:GLU:N	1:37:B:GLU:CA	1:37:B:GLU:C	1:38:B:VAL:N	15	6.18
(1,74)	1:29:B:LEU:C	1:30:B:PHE:N	1:30:B:PHE:CA	1:30:B:PHE:C	14	6.18
(1,158)	1:37:A:GLU:N	1:37:A:GLU:CA	1:37:A:GLU:C	1:38:A:VAL:N	15	6.17
(1,74)	1:29:B:LEU:C	1:30:B:PHE:N	1:30:B:PHE:CA	1:30:B:PHE:C	20	6.17
(1,74)	1:29:B:LEU:C	1:30:B:PHE:N	1:30:B:PHE:CA	1:30:B:PHE:C	18	6.16
(1,163)	1:43:A:CYS:N	1:43:A:CYS:CA	1:43:A:CYS:C	1:44:A:ASP:N	6	6.15
(1,73)	1:29:A:LEU:C	1:30:A:PHE:N	1:30:A:PHE:CA	1:30:A:PHE:C	15	6.14
(1,163)	1:43:A:CYS:N	1:43:A:CYS:CA	1:43:A:CYS:C	1:44:A:ASP:N	16	6.12
(1,163)	1:43:A:CYS:N	1:43:A:CYS:CA	1:43:A:CYS:C	1:44:A:ASP:N	18	6.11

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,74)	1:29:B:LEU:C	1:30:B:PHE:N	1:30:B:PHE:CA	1:30:B:PHE:C	3	6.1
(1,73)	1:29:A:LEU:C	1:30:A:PHE:N	1:30:A:PHE:CA	1:30:A:PHE:C	17	6.08
(1,74)	1:29:B:LEU:C	1:30:B:PHE:N	1:30:B:PHE:CA	1:30:B:PHE:C	10	6.06
(1,73)	1:29:A:LEU:C	1:30:A:PHE:N	1:30:A:PHE:CA	1:30:A:PHE:C	18	6.04
(1,208)	1:37:B:GLU:N	1:37:B:GLU:CA	1:37:B:GLU:C	1:38:B:VAL:N	3	6.0
(1,171)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:C	1:55:A:HIS:N	12	5.98
(1,213)	1:43:B:CYS:N	1:43:B:CYS:CA	1:43:B:CYS:C	1:44:B:ASP:N	11	5.94
(1,74)	1:29:B:LEU:C	1:30:B:PHE:N	1:30:B:PHE:CA	1:30:B:PHE:C	13	5.93
(1,73)	1:29:A:LEU:C	1:30:A:PHE:N	1:30:A:PHE:CA	1:30:A:PHE:C	9	5.89
(1,73)	1:29:A:LEU:C	1:30:A:PHE:N	1:30:A:PHE:CA	1:30:A:PHE:C	1	5.88
(1,74)	1:29:B:LEU:C	1:30:B:PHE:N	1:30:B:PHE:CA	1:30:B:PHE:C	8	5.85
(1,73)	1:29:A:LEU:C	1:30:A:PHE:N	1:30:A:PHE:CA	1:30:A:PHE:C	7	5.84
(1,73)	1:29:A:LEU:C	1:30:A:PHE:N	1:30:A:PHE:CA	1:30:A:PHE:C	10	5.84
(1,73)	1:29:A:LEU:C	1:30:A:PHE:N	1:30:A:PHE:CA	1:30:A:PHE:C	19	5.76
(1,171)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:C	1:55:A:HIS:N	11	5.75
(1,74)	1:29:B:LEU:C	1:30:B:PHE:N	1:30:B:PHE:CA	1:30:B:PHE:C	17	5.74
(1,200)	1:27:B:GLU:N	1:27:B:GLU:CA	1:27:B:GLU:C	1:28:B:VAL:N	19	5.65
(1,73)	1:29:A:LEU:C	1:30:A:PHE:N	1:30:A:PHE:CA	1:30:A:PHE:C	14	5.65
(1,200)	1:27:B:GLU:N	1:27:B:GLU:CA	1:27:B:GLU:C	1:28:B:VAL:N	12	5.64
(1,171)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:C	1:55:A:HIS:N	4	5.64
(1,150)	1:27:A:GLU:N	1:27:A:GLU:CA	1:27:A:GLU:C	1:28:A:VAL:N	8	5.64
(1,221)	1:54:B:GLU:N	1:54:B:GLU:CA	1:54:B:GLU:C	1:55:B:HIS:N	15	5.63
(1,200)	1:27:B:GLU:N	1:27:B:GLU:CA	1:27:B:GLU:C	1:28:B:VAL:N	14	5.63
(1,221)	1:54:B:GLU:N	1:54:B:GLU:CA	1:54:B:GLU:C	1:55:B:HIS:N	20	5.61
(1,200)	1:27:B:GLU:N	1:27:B:GLU:CA	1:27:B:GLU:C	1:28:B:VAL:N	17	5.61
(1,73)	1:29:A:LEU:C	1:30:A:PHE:N	1:30:A:PHE:CA	1:30:A:PHE:C	2	5.6
(1,221)	1:54:B:GLU:N	1:54:B:GLU:CA	1:54:B:GLU:C	1:55:B:HIS:N	4	5.53
(1,221)	1:54:B:GLU:N	1:54:B:GLU:CA	1:54:B:GLU:C	1:55:B:HIS:N	18	5.53
(1,150)	1:27:A:GLU:N	1:27:A:GLU:CA	1:27:A:GLU:C	1:28:A:VAL:N	10	5.53
(1,200)	1:27:B:GLU:N	1:27:B:GLU:CA	1:27:B:GLU:C	1:28:B:VAL:N	1	5.51
(1,171)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:C	1:55:A:HIS:N	14	5.5
(1,171)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:C	1:55:A:HIS:N	19	5.5
(1,150)	1:27:A:GLU:N	1:27:A:GLU:CA	1:27:A:GLU:C	1:28:A:VAL:N	13	5.48
(1,200)	1:27:B:GLU:N	1:27:B:GLU:CA	1:27:B:GLU:C	1:28:B:VAL:N	6	5.47
(1,171)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:C	1:55:A:HIS:N	5	5.47
(1,200)	1:27:B:GLU:N	1:27:B:GLU:CA	1:27:B:GLU:C	1:28:B:VAL:N	11	5.43
(1,221)	1:54:B:GLU:N	1:54:B:GLU:CA	1:54:B:GLU:C	1:55:B:HIS:N	16	5.42
(1,150)	1:27:A:GLU:N	1:27:A:GLU:CA	1:27:A:GLU:C	1:28:A:VAL:N	15	5.42
(1,150)	1:27:A:GLU:N	1:27:A:GLU:CA	1:27:A:GLU:C	1:28:A:VAL:N	16	5.42
(1,171)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:C	1:55:A:HIS:N	3	5.4
(1,221)	1:54:B:GLU:N	1:54:B:GLU:CA	1:54:B:GLU:C	1:55:B:HIS:N	5	5.39
(1,200)	1:27:B:GLU:N	1:27:B:GLU:CA	1:27:B:GLU:C	1:28:B:VAL:N	7	5.38
(1,171)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:C	1:55:A:HIS:N	20	5.38
(1,221)	1:54:B:GLU:N	1:54:B:GLU:CA	1:54:B:GLU:C	1:55:B:HIS:N	13	5.36
(1,200)	1:27:B:GLU:N	1:27:B:GLU:CA	1:27:B:GLU:C	1:28:B:VAL:N	9	5.36
(1,171)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:C	1:55:A:HIS:N	1	5.34
(1,200)	1:27:B:GLU:N	1:27:B:GLU:CA	1:27:B:GLU:C	1:28:B:VAL:N	10	5.33
(1,150)	1:27:A:GLU:N	1:27:A:GLU:CA	1:27:A:GLU:C	1:28:A:VAL:N	17	5.33
(1,73)	1:29:A:LEU:C	1:30:A:PHE:N	1:30:A:PHE:CA	1:30:A:PHE:C	12	5.33
(1,200)	1:27:B:GLU:N	1:27:B:GLU:CA	1:27:B:GLU:C	1:28:B:VAL:N	8	5.31
(1,171)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:C	1:55:A:HIS:N	2	5.31

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,202)	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:C	1:30:B:PHE:N	11	5.28
(1,171)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:C	1:55:A:HIS:N	9	5.28
(1,150)	1:27:A:GLU:N	1:27:A:GLU:CA	1:27:A:GLU:C	1:28:A:VAL:N	1	5.27
(1,200)	1:27:B:GLU:N	1:27:B:GLU:CA	1:27:B:GLU:C	1:28:B:VAL:N	3	5.26
(1,171)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:C	1:55:A:HIS:N	7	5.25
(1,150)	1:27:A:GLU:N	1:27:A:GLU:CA	1:27:A:GLU:C	1:28:A:VAL:N	9	5.24
(1,150)	1:27:A:GLU:N	1:27:A:GLU:CA	1:27:A:GLU:C	1:28:A:VAL:N	18	5.21
(1,200)	1:27:B:GLU:N	1:27:B:GLU:CA	1:27:B:GLU:C	1:28:B:VAL:N	15	5.2
(1,150)	1:27:A:GLU:N	1:27:A:GLU:CA	1:27:A:GLU:C	1:28:A:VAL:N	2	5.2
(1,221)	1:54:B:GLU:N	1:54:B:GLU:CA	1:54:B:GLU:C	1:55:B:HIS:N	3	5.19
(1,200)	1:27:B:GLU:N	1:27:B:GLU:CA	1:27:B:GLU:C	1:28:B:VAL:N	13	5.18
(1,200)	1:27:B:GLU:N	1:27:B:GLU:CA	1:27:B:GLU:C	1:28:B:VAL:N	20	5.18
(1,150)	1:27:A:GLU:N	1:27:A:GLU:CA	1:27:A:GLU:C	1:28:A:VAL:N	5	5.18
(1,171)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:C	1:55:A:HIS:N	17	5.17
(1,150)	1:27:A:GLU:N	1:27:A:GLU:CA	1:27:A:GLU:C	1:28:A:VAL:N	20	5.14
(1,202)	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:C	1:30:B:PHE:N	12	5.13
(1,202)	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:C	1:30:B:PHE:N	19	5.12
(1,152)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	1:30:A:PHE:N	11	5.12
(1,200)	1:27:B:GLU:N	1:27:B:GLU:CA	1:27:B:GLU:C	1:28:B:VAL:N	18	5.11
(1,202)	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:C	1:30:B:PHE:N	5	5.1
(1,152)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	1:30:A:PHE:N	20	5.1
(1,202)	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:C	1:30:B:PHE:N	20	5.09
(1,221)	1:54:B:GLU:N	1:54:B:GLU:CA	1:54:B:GLU:C	1:55:B:HIS:N	2	5.08
(1,202)	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:C	1:30:B:PHE:N	3	5.02
(1,202)	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:C	1:30:B:PHE:N	9	5.01
(1,200)	1:27:B:GLU:N	1:27:B:GLU:CA	1:27:B:GLU:C	1:28:B:VAL:N	5	5.01
(1,202)	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:C	1:30:B:PHE:N	2	5.0
(1,221)	1:54:B:GLU:N	1:54:B:GLU:CA	1:54:B:GLU:C	1:55:B:HIS:N	14	4.98
(1,221)	1:54:B:GLU:N	1:54:B:GLU:CA	1:54:B:GLU:C	1:55:B:HIS:N	11	4.97
(1,200)	1:27:B:GLU:N	1:27:B:GLU:CA	1:27:B:GLU:C	1:28:B:VAL:N	16	4.96
(1,150)	1:27:A:GLU:N	1:27:A:GLU:CA	1:27:A:GLU:C	1:28:A:VAL:N	3	4.96
(1,150)	1:27:A:GLU:N	1:27:A:GLU:CA	1:27:A:GLU:C	1:28:A:VAL:N	6	4.96
(1,171)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:C	1:55:A:HIS:N	18	4.95
(1,152)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	1:30:A:PHE:N	5	4.95
(1,150)	1:27:A:GLU:N	1:27:A:GLU:CA	1:27:A:GLU:C	1:28:A:VAL:N	11	4.95
(1,270)	1:56:B:PHE:N	1:56:B:PHE:CA	1:56:B:PHE:CB	1:56:B:PHE:CG	11	4.94
(1,202)	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:C	1:30:B:PHE:N	7	4.94
(1,200)	1:27:B:GLU:N	1:27:B:GLU:CA	1:27:B:GLU:C	1:28:B:VAL:N	2	4.94
(1,150)	1:27:A:GLU:N	1:27:A:GLU:CA	1:27:A:GLU:C	1:28:A:VAL:N	12	4.94
(1,150)	1:27:A:GLU:N	1:27:A:GLU:CA	1:27:A:GLU:C	1:28:A:VAL:N	19	4.94
(1,150)	1:27:A:GLU:N	1:27:A:GLU:CA	1:27:A:GLU:C	1:28:A:VAL:N	7	4.92
(1,209)	1:38:B:VAL:N	1:38:B:VAL:CA	1:38:B:VAL:C	1:39:B:SER:N	15	4.91
(1,202)	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:C	1:30:B:PHE:N	18	4.91
(1,171)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:C	1:55:A:HIS:N	6	4.91
(1,202)	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:C	1:30:B:PHE:N	1	4.9
(1,202)	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:C	1:30:B:PHE:N	4	4.9
(1,202)	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:C	1:30:B:PHE:N	14	4.9
(1,171)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:C	1:55:A:HIS:N	15	4.9
(1,150)	1:27:A:GLU:N	1:27:A:GLU:CA	1:27:A:GLU:C	1:28:A:VAL:N	14	4.89
(1,221)	1:54:B:GLU:N	1:54:B:GLU:CA	1:54:B:GLU:C	1:55:B:HIS:N	6	4.87
(1,152)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	1:30:A:PHE:N	13	4.83

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,221)	1:54:B:GLU:N	1:54:B:GLU:CA	1:54:B:GLU:C	1:55:B:HIS:N	9	4.82
(1,152)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	1:30:A:PHE:N	3	4.82
(1,152)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	1:30:A:PHE:N	15	4.82
(1,74)	1:29:B:LEU:C	1:30:B:PHE:N	1:30:B:PHE:CA	1:30:B:PHE:C	16	4.76
(1,209)	1:38:B:VAL:N	1:38:B:VAL:CA	1:38:B:VAL:C	1:39:B:SER:N	16	4.75
(1,159)	1:38:A:VAL:N	1:38:A:VAL:CA	1:38:A:VAL:C	1:39:A:SER:N	2	4.75
(1,171)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:C	1:55:A:HIS:N	13	4.74
(1,171)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:C	1:55:A:HIS:N	8	4.73
(1,202)	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:C	1:30:B:PHE:N	8	4.72
(1,152)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	1:30:A:PHE:N	17	4.72
(1,268)	1:55:B:HIS:N	1:55:B:HIS:CA	1:55:B:HIS:CB	1:55:B:HIS:CG	15	4.71
(1,152)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	1:30:A:PHE:N	1	4.71
(1,221)	1:54:B:GLU:N	1:54:B:GLU:CA	1:54:B:GLU:C	1:55:B:HIS:N	12	4.7
(1,152)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	1:30:A:PHE:N	6	4.7
(1,171)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:C	1:55:A:HIS:N	16	4.69
(1,152)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	1:30:A:PHE:N	16	4.69
(1,202)	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:C	1:30:B:PHE:N	6	4.68
(1,159)	1:38:A:VAL:N	1:38:A:VAL:CA	1:38:A:VAL:C	1:39:A:SER:N	7	4.67
(1,152)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	1:30:A:PHE:N	14	4.67
(1,221)	1:54:B:GLU:N	1:54:B:GLU:CA	1:54:B:GLU:C	1:55:B:HIS:N	8	4.65
(1,159)	1:38:A:VAL:N	1:38:A:VAL:CA	1:38:A:VAL:C	1:39:A:SER:N	1	4.65
(1,152)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	1:30:A:PHE:N	19	4.65
(1,152)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	1:30:A:PHE:N	4	4.64
(1,152)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	1:30:A:PHE:N	18	4.64
(1,270)	1:56:B:PHE:N	1:56:B:PHE:CA	1:56:B:PHE:CB	1:56:B:PHE:CG	6	4.63
(1,221)	1:54:B:GLU:N	1:54:B:GLU:CA	1:54:B:GLU:C	1:55:B:HIS:N	10	4.63
(1,152)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	1:30:A:PHE:N	7	4.63
(1,221)	1:54:B:GLU:N	1:54:B:GLU:CA	1:54:B:GLU:C	1:55:B:HIS:N	19	4.62
(1,159)	1:38:A:VAL:N	1:38:A:VAL:CA	1:38:A:VAL:C	1:39:A:SER:N	17	4.62
(1,152)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	1:30:A:PHE:N	8	4.61
(1,221)	1:54:B:GLU:N	1:54:B:GLU:CA	1:54:B:GLU:C	1:55:B:HIS:N	17	4.58
(1,270)	1:56:B:PHE:N	1:56:B:PHE:CA	1:56:B:PHE:CB	1:56:B:PHE:CG	8	4.57
(1,221)	1:54:B:GLU:N	1:54:B:GLU:CA	1:54:B:GLU:C	1:55:B:HIS:N	1	4.57
(1,221)	1:54:B:GLU:N	1:54:B:GLU:CA	1:54:B:GLU:C	1:55:B:HIS:N	7	4.57
(1,209)	1:38:B:VAL:N	1:38:B:VAL:CA	1:38:B:VAL:C	1:39:B:SER:N	13	4.57
(1,270)	1:56:B:PHE:N	1:56:B:PHE:CA	1:56:B:PHE:CB	1:56:B:PHE:CG	14	4.55
(1,270)	1:56:B:PHE:N	1:56:B:PHE:CA	1:56:B:PHE:CB	1:56:B:PHE:CG	15	4.55
(1,202)	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:C	1:30:B:PHE:N	10	4.55
(1,171)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:C	1:55:A:HIS:N	10	4.54
(1,159)	1:38:A:VAL:N	1:38:A:VAL:CA	1:38:A:VAL:C	1:39:A:SER:N	9	4.54
(1,159)	1:38:A:VAL:N	1:38:A:VAL:CA	1:38:A:VAL:C	1:39:A:SER:N	14	4.54
(1,270)	1:56:B:PHE:N	1:56:B:PHE:CA	1:56:B:PHE:CB	1:56:B:PHE:CG	19	4.53
(1,267)	1:55:A:HIS:N	1:55:A:HIS:CA	1:55:A:HIS:CB	1:55:A:HIS:CG	12	4.53
(1,269)	1:56:A:PHE:N	1:56:A:PHE:CA	1:56:A:PHE:CB	1:56:A:PHE:CG	12	4.52
(1,202)	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:C	1:30:B:PHE:N	13	4.52
(1,159)	1:38:A:VAL:N	1:38:A:VAL:CA	1:38:A:VAL:C	1:39:A:SER:N	11	4.52
(1,152)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	1:30:A:PHE:N	2	4.52
(1,269)	1:56:A:PHE:N	1:56:A:PHE:CA	1:56:A:PHE:CB	1:56:A:PHE:CG	18	4.51
(1,209)	1:38:B:VAL:N	1:38:B:VAL:CA	1:38:B:VAL:C	1:39:B:SER:N	2	4.51
(1,209)	1:38:B:VAL:N	1:38:B:VAL:CA	1:38:B:VAL:C	1:39:B:SER:N	20	4.51
(1,200)	1:27:B:GLU:N	1:27:B:GLU:CA	1:27:B:GLU:C	1:28:B:VAL:N	4	4.51

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,159)	1:38:A:VAL:N	1:38:A:VAL:CA	1:38:A:VAL:C	1:39:A:SER:N	20	4.51
(1,152)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	1:30:A:PHE:N	10	4.51
(1,209)	1:38:B:VAL:N	1:38:B:VAL:CA	1:38:B:VAL:C	1:39:B:SER:N	3	4.49
(1,152)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	1:30:A:PHE:N	9	4.46
(1,270)	1:56:B:PHE:N	1:56:B:PHE:CA	1:56:B:PHE:CB	1:56:B:PHE:CG	1	4.45
(1,159)	1:38:A:VAL:N	1:38:A:VAL:CA	1:38:A:VAL:C	1:39:A:SER:N	12	4.44
(1,270)	1:56:B:PHE:N	1:56:B:PHE:CA	1:56:B:PHE:CB	1:56:B:PHE:CG	17	4.43
(1,152)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:C	1:30:A:PHE:N	12	4.42
(1,269)	1:56:A:PHE:N	1:56:A:PHE:CA	1:56:A:PHE:CB	1:56:A:PHE:CG	11	4.41
(1,209)	1:38:B:VAL:N	1:38:B:VAL:CA	1:38:B:VAL:C	1:39:B:SER:N	18	4.41
(1,150)	1:27:A:GLU:N	1:27:A:GLU:CA	1:27:A:GLU:C	1:28:A:VAL:N	4	4.41
(1,159)	1:38:A:VAL:N	1:38:A:VAL:CA	1:38:A:VAL:C	1:39:A:SER:N	8	4.39
(1,270)	1:56:B:PHE:N	1:56:B:PHE:CA	1:56:B:PHE:CB	1:56:B:PHE:CG	10	4.38
(1,159)	1:38:A:VAL:N	1:38:A:VAL:CA	1:38:A:VAL:C	1:39:A:SER:N	3	4.38
(1,209)	1:38:B:VAL:N	1:38:B:VAL:CA	1:38:B:VAL:C	1:39:B:SER:N	5	4.37
(1,159)	1:38:A:VAL:N	1:38:A:VAL:CA	1:38:A:VAL:C	1:39:A:SER:N	19	4.36
(1,270)	1:56:B:PHE:N	1:56:B:PHE:CA	1:56:B:PHE:CB	1:56:B:PHE:CG	7	4.34
(1,270)	1:56:B:PHE:N	1:56:B:PHE:CA	1:56:B:PHE:CB	1:56:B:PHE:CG	12	4.34
(1,269)	1:56:A:PHE:N	1:56:A:PHE:CA	1:56:A:PHE:CB	1:56:A:PHE:CG	10	4.34
(1,269)	1:56:A:PHE:N	1:56:A:PHE:CA	1:56:A:PHE:CB	1:56:A:PHE:CG	16	4.34
(1,269)	1:56:A:PHE:N	1:56:A:PHE:CA	1:56:A:PHE:CB	1:56:A:PHE:CG	6	4.32
(1,209)	1:38:B:VAL:N	1:38:B:VAL:CA	1:38:B:VAL:C	1:39:B:SER:N	17	4.32
(1,159)	1:38:A:VAL:N	1:38:A:VAL:CA	1:38:A:VAL:C	1:39:A:SER:N	10	4.31
(1,209)	1:38:B:VAL:N	1:38:B:VAL:CA	1:38:B:VAL:C	1:39:B:SER:N	4	4.3
(1,270)	1:56:B:PHE:N	1:56:B:PHE:CA	1:56:B:PHE:CB	1:56:B:PHE:CG	9	4.29
(1,209)	1:38:B:VAL:N	1:38:B:VAL:CA	1:38:B:VAL:C	1:39:B:SER:N	6	4.29
(1,159)	1:38:A:VAL:N	1:38:A:VAL:CA	1:38:A:VAL:C	1:39:A:SER:N	15	4.29
(1,202)	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:C	1:30:B:PHE:N	17	4.27
(1,159)	1:38:A:VAL:N	1:38:A:VAL:CA	1:38:A:VAL:C	1:39:A:SER:N	5	4.24
(1,159)	1:38:A:VAL:N	1:38:A:VAL:CA	1:38:A:VAL:C	1:39:A:SER:N	16	4.24
(1,209)	1:38:B:VAL:N	1:38:B:VAL:CA	1:38:B:VAL:C	1:39:B:SER:N	12	4.22
(1,159)	1:38:A:VAL:N	1:38:A:VAL:CA	1:38:A:VAL:C	1:39:A:SER:N	4	4.18
(1,269)	1:56:A:PHE:N	1:56:A:PHE:CA	1:56:A:PHE:CB	1:56:A:PHE:CG	13	4.14
(1,209)	1:38:B:VAL:N	1:38:B:VAL:CA	1:38:B:VAL:C	1:39:B:SER:N	1	4.13
(1,209)	1:38:B:VAL:N	1:38:B:VAL:CA	1:38:B:VAL:C	1:39:B:SER:N	14	4.13
(1,267)	1:55:A:HIS:N	1:55:A:HIS:CA	1:55:A:HIS:CB	1:55:A:HIS:CG	11	4.11
(1,159)	1:38:A:VAL:N	1:38:A:VAL:CA	1:38:A:VAL:C	1:39:A:SER:N	6	4.1
(1,209)	1:38:B:VAL:N	1:38:B:VAL:CA	1:38:B:VAL:C	1:39:B:SER:N	9	4.08
(1,177)	1:60:A:HIS:N	1:60:A:HIS:CA	1:60:A:HIS:C	1:61:A:PHE:N	6	4.06
(1,209)	1:38:B:VAL:N	1:38:B:VAL:CA	1:38:B:VAL:C	1:39:B:SER:N	7	4.04
(1,209)	1:38:B:VAL:N	1:38:B:VAL:CA	1:38:B:VAL:C	1:39:B:SER:N	19	4.04
(1,269)	1:56:A:PHE:N	1:56:A:PHE:CA	1:56:A:PHE:CB	1:56:A:PHE:CG	15	4.0
(1,209)	1:38:B:VAL:N	1:38:B:VAL:CA	1:38:B:VAL:C	1:39:B:SER:N	8	3.98
(1,159)	1:38:A:VAL:N	1:38:A:VAL:CA	1:38:A:VAL:C	1:39:A:SER:N	18	3.98
(1,209)	1:38:B:VAL:N	1:38:B:VAL:CA	1:38:B:VAL:C	1:39:B:SER:N	10	3.97
(1,269)	1:56:A:PHE:N	1:56:A:PHE:CA	1:56:A:PHE:CB	1:56:A:PHE:CG	8	3.95
(1,74)	1:29:B:LEU:C	1:30:B:PHE:N	1:30:B:PHE:CA	1:30:B:PHE:C	15	3.9
(1,159)	1:38:A:VAL:N	1:38:A:VAL:CA	1:38:A:VAL:C	1:39:A:SER:N	13	3.89
(1,209)	1:38:B:VAL:N	1:38:B:VAL:CA	1:38:B:VAL:C	1:39:B:SER:N	11	3.85
(1,270)	1:56:B:PHE:N	1:56:B:PHE:CA	1:56:B:PHE:CB	1:56:B:PHE:CG	2	3.81
(1,202)	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:C	1:30:B:PHE:N	16	3.81

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,269)	1:56:A:PHE:N	1:56:A:PHE:CA	1:56:A:PHE:CB	1:56:A:PHE:CG	19	3.77
(1,177)	1:60:A:HIS:N	1:60:A:HIS:CA	1:60:A:HIS:C	1:61:A:PHE:N	9	3.7
(1,269)	1:56:A:PHE:N	1:56:A:PHE:CA	1:56:A:PHE:CB	1:56:A:PHE:CG	14	3.67
(1,269)	1:56:A:PHE:N	1:56:A:PHE:CA	1:56:A:PHE:CB	1:56:A:PHE:CG	5	3.66
(1,177)	1:60:A:HIS:N	1:60:A:HIS:CA	1:60:A:HIS:C	1:61:A:PHE:N	16	3.66
(1,269)	1:56:A:PHE:N	1:56:A:PHE:CA	1:56:A:PHE:CB	1:56:A:PHE:CG	20	3.61
(1,270)	1:56:B:PHE:N	1:56:B:PHE:CA	1:56:B:PHE:CB	1:56:B:PHE:CG	20	3.59
(1,202)	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:C	1:30:B:PHE:N	15	3.58
(1,270)	1:56:B:PHE:N	1:56:B:PHE:CA	1:56:B:PHE:CB	1:56:B:PHE:CG	4	3.57
(1,270)	1:56:B:PHE:N	1:56:B:PHE:CA	1:56:B:PHE:CB	1:56:B:PHE:CG	13	3.53
(1,270)	1:56:B:PHE:N	1:56:B:PHE:CA	1:56:B:PHE:CB	1:56:B:PHE:CG	3	3.52
(1,270)	1:56:B:PHE:N	1:56:B:PHE:CA	1:56:B:PHE:CB	1:56:B:PHE:CG	16	3.47
(1,269)	1:56:A:PHE:N	1:56:A:PHE:CA	1:56:A:PHE:CB	1:56:A:PHE:CG	7	3.46
(1,269)	1:56:A:PHE:N	1:56:A:PHE:CA	1:56:A:PHE:CB	1:56:A:PHE:CG	3	3.45
(1,270)	1:56:B:PHE:N	1:56:B:PHE:CA	1:56:B:PHE:CB	1:56:B:PHE:CG	18	3.43
(1,269)	1:56:A:PHE:N	1:56:A:PHE:CA	1:56:A:PHE:CB	1:56:A:PHE:CG	17	3.43
(1,269)	1:56:A:PHE:N	1:56:A:PHE:CA	1:56:A:PHE:CB	1:56:A:PHE:CG	2	3.31
(1,177)	1:60:A:HIS:N	1:60:A:HIS:CA	1:60:A:HIS:C	1:61:A:PHE:N	4	3.24
(1,269)	1:56:A:PHE:N	1:56:A:PHE:CA	1:56:A:PHE:CB	1:56:A:PHE:CG	9	3.2
(1,270)	1:56:B:PHE:N	1:56:B:PHE:CA	1:56:B:PHE:CB	1:56:B:PHE:CG	5	3.18
(1,91)	1:39:A:SER:C	1:40:A:CYS:N	1:40:A:CYS:CA	1:40:A:CYS:C	9	3.14
(1,267)	1:55:A:HIS:N	1:55:A:HIS:CA	1:55:A:HIS:CB	1:55:A:HIS:CG	14	3.11
(1,177)	1:60:A:HIS:N	1:60:A:HIS:CA	1:60:A:HIS:C	1:61:A:PHE:N	1	3.1
(1,91)	1:39:A:SER:C	1:40:A:CYS:N	1:40:A:CYS:CA	1:40:A:CYS:C	4	3.04
(1,267)	1:55:A:HIS:N	1:55:A:HIS:CA	1:55:A:HIS:CB	1:55:A:HIS:CG	19	3.03
(1,269)	1:56:A:PHE:N	1:56:A:PHE:CA	1:56:A:PHE:CB	1:56:A:PHE:CG	1	3.02
(1,267)	1:55:A:HIS:N	1:55:A:HIS:CA	1:55:A:HIS:CB	1:55:A:HIS:CG	4	2.98
(1,87)	1:37:A:GLU:C	1:38:A:VAL:N	1:38:A:VAL:CA	1:38:A:VAL:C	13	2.96
(1,269)	1:56:A:PHE:N	1:56:A:PHE:CA	1:56:A:PHE:CB	1:56:A:PHE:CG	4	2.95
(1,267)	1:55:A:HIS:N	1:55:A:HIS:CA	1:55:A:HIS:CB	1:55:A:HIS:CG	2	2.95
(1,267)	1:55:A:HIS:N	1:55:A:HIS:CA	1:55:A:HIS:CB	1:55:A:HIS:CG	20	2.95
(1,268)	1:55:B:HIS:N	1:55:B:HIS:CA	1:55:B:HIS:CB	1:55:B:HIS:CG	16	2.94
(1,91)	1:39:A:SER:C	1:40:A:CYS:N	1:40:A:CYS:CA	1:40:A:CYS:C	17	2.9
(1,267)	1:55:A:HIS:N	1:55:A:HIS:CA	1:55:A:HIS:CB	1:55:A:HIS:CG	5	2.89
(1,267)	1:55:A:HIS:N	1:55:A:HIS:CA	1:55:A:HIS:CB	1:55:A:HIS:CG	9	2.89
(1,91)	1:39:A:SER:C	1:40:A:CYS:N	1:40:A:CYS:CA	1:40:A:CYS:C	1	2.89
(1,177)	1:60:A:HIS:N	1:60:A:HIS:CA	1:60:A:HIS:C	1:61:A:PHE:N	13	2.86
(1,268)	1:55:B:HIS:N	1:55:B:HIS:CA	1:55:B:HIS:CB	1:55:B:HIS:CG	5	2.83
(1,268)	1:55:B:HIS:N	1:55:B:HIS:CA	1:55:B:HIS:CB	1:55:B:HIS:CG	4	2.79
(1,267)	1:55:A:HIS:N	1:55:A:HIS:CA	1:55:A:HIS:CB	1:55:A:HIS:CG	3	2.78
(1,92)	1:39:B:SER:C	1:40:B:CYS:N	1:40:B:CYS:CA	1:40:B:CYS:C	4	2.78
(1,91)	1:39:A:SER:C	1:40:A:CYS:N	1:40:A:CYS:CA	1:40:A:CYS:C	2	2.78
(1,92)	1:39:B:SER:C	1:40:B:CYS:N	1:40:B:CYS:CA	1:40:B:CYS:C	16	2.77
(1,227)	1:60:B:HIS:N	1:60:B:HIS:CA	1:60:B:HIS:C	1:61:B:PHE:N	16	2.74
(1,92)	1:39:B:SER:C	1:40:B:CYS:N	1:40:B:CYS:CA	1:40:B:CYS:C	5	2.74
(1,88)	1:37:B:GLU:C	1:38:B:VAL:N	1:38:B:VAL:CA	1:38:B:VAL:C	11	2.74
(1,267)	1:55:A:HIS:N	1:55:A:HIS:CA	1:55:A:HIS:CB	1:55:A:HIS:CG	18	2.73
(1,88)	1:37:B:GLU:C	1:38:B:VAL:N	1:38:B:VAL:CA	1:38:B:VAL:C	1	2.73
(1,88)	1:37:B:GLU:C	1:38:B:VAL:N	1:38:B:VAL:CA	1:38:B:VAL:C	7	2.71
(1,88)	1:37:B:GLU:C	1:38:B:VAL:N	1:38:B:VAL:CA	1:38:B:VAL:C	9	2.7
(1,268)	1:55:B:HIS:N	1:55:B:HIS:CA	1:55:B:HIS:CB	1:55:B:HIS:CG	18	2.69

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,92)	1:39:B:SER:C	1:40:B:CYS:N	1:40:B:CYS:CA	1:40:B:CYS:C	2	2.68
(1,227)	1:60:B:HIS:N	1:60:B:HIS:CA	1:60:B:HIS:C	1:61:B:PHE:N	5	2.66
(1,92)	1:39:B:SER:C	1:40:B:CYS:N	1:40:B:CYS:CA	1:40:B:CYS:C	13	2.65
(1,92)	1:39:B:SER:C	1:40:B:CYS:N	1:40:B:CYS:CA	1:40:B:CYS:C	18	2.65
(1,91)	1:39:A:SER:C	1:40:A:CYS:N	1:40:A:CYS:CA	1:40:A:CYS:C	5	2.63
(1,91)	1:39:A:SER:C	1:40:A:CYS:N	1:40:A:CYS:CA	1:40:A:CYS:C	11	2.63
(1,92)	1:39:B:SER:C	1:40:B:CYS:N	1:40:B:CYS:CA	1:40:B:CYS:C	15	2.62
(1,87)	1:37:A:GLU:C	1:38:A:VAL:N	1:38:A:VAL:CA	1:38:A:VAL:C	18	2.61
(1,91)	1:39:A:SER:C	1:40:A:CYS:N	1:40:A:CYS:CA	1:40:A:CYS:C	7	2.6
(1,267)	1:55:A:HIS:N	1:55:A:HIS:CA	1:55:A:HIS:CB	1:55:A:HIS:CG	1	2.57
(1,88)	1:37:B:GLU:C	1:38:B:VAL:N	1:38:B:VAL:CA	1:38:B:VAL:C	19	2.57
(1,177)	1:60:A:HIS:N	1:60:A:HIS:CA	1:60:A:HIS:C	1:61:A:PHE:N	2	2.56
(1,268)	1:55:B:HIS:N	1:55:B:HIS:CA	1:55:B:HIS:CB	1:55:B:HIS:CG	11	2.55
(1,91)	1:39:A:SER:C	1:40:A:CYS:N	1:40:A:CYS:CA	1:40:A:CYS:C	20	2.55
(1,177)	1:60:A:HIS:N	1:60:A:HIS:CA	1:60:A:HIS:C	1:61:A:PHE:N	8	2.49
(1,92)	1:39:B:SER:C	1:40:B:CYS:N	1:40:B:CYS:CA	1:40:B:CYS:C	3	2.49
(1,92)	1:39:B:SER:C	1:40:B:CYS:N	1:40:B:CYS:CA	1:40:B:CYS:C	20	2.49
(1,91)	1:39:A:SER:C	1:40:A:CYS:N	1:40:A:CYS:CA	1:40:A:CYS:C	3	2.48
(1,268)	1:55:B:HIS:N	1:55:B:HIS:CA	1:55:B:HIS:CB	1:55:B:HIS:CG	13	2.47
(1,113)	1:54:A:GLU:C	1:55:A:HIS:N	1:55:A:HIS:CA	1:55:A:HIS:C	12	2.47
(1,88)	1:37:B:GLU:C	1:38:B:VAL:N	1:38:B:VAL:CA	1:38:B:VAL:C	17	2.43
(1,88)	1:37:B:GLU:C	1:38:B:VAL:N	1:38:B:VAL:CA	1:38:B:VAL:C	10	2.42
(1,227)	1:60:B:HIS:N	1:60:B:HIS:CA	1:60:B:HIS:C	1:61:B:PHE:N	9	2.4
(1,88)	1:37:B:GLU:C	1:38:B:VAL:N	1:38:B:VAL:CA	1:38:B:VAL:C	14	2.4
(1,268)	1:55:B:HIS:N	1:55:B:HIS:CA	1:55:B:HIS:CB	1:55:B:HIS:CG	2	2.38
(1,87)	1:37:A:GLU:C	1:38:A:VAL:N	1:38:A:VAL:CA	1:38:A:VAL:C	6	2.38
(1,214)	1:44:B:ASP:N	1:44:B:ASP:CA	1:44:B:ASP:C	1:45:B:GLN:N	3	2.37
(1,115)	1:56:A:PHE:C	1:57:A:ARG:N	1:57:A:ARG:CA	1:57:A:ARG:C	12	2.37
(1,87)	1:37:A:GLU:C	1:38:A:VAL:N	1:38:A:VAL:CA	1:38:A:VAL:C	16	2.37
(1,164)	1:44:A:ASP:N	1:44:A:ASP:CA	1:44:A:ASP:C	1:45:A:GLN:N	17	2.35
(1,88)	1:37:B:GLU:C	1:38:B:VAL:N	1:38:B:VAL:CA	1:38:B:VAL:C	12	2.35
(1,244)	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:CB	1:29:B:LEU:CG	6	2.34
(1,177)	1:60:A:HIS:N	1:60:A:HIS:CA	1:60:A:HIS:C	1:61:A:PHE:N	18	2.34
(1,277)	1:61:A:PHE:N	1:61:A:PHE:CA	1:61:A:PHE:CB	1:61:A:PHE:CG	9	2.32
(1,267)	1:55:A:HIS:N	1:55:A:HIS:CA	1:55:A:HIS:CB	1:55:A:HIS:CG	7	2.32
(1,244)	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:CB	1:29:B:LEU:CG	8	2.29
(1,214)	1:44:B:ASP:N	1:44:B:ASP:CA	1:44:B:ASP:C	1:45:B:GLN:N	20	2.27
(1,116)	1:56:B:PHE:C	1:57:B:ARG:N	1:57:B:ARG:CA	1:57:B:ARG:C	11	2.26
(1,33)	1:33:A:PRO:N	1:33:A:PRO:CA	1:33:A:PRO:C	1:34:A:ALA:N	4	2.24
(1,164)	1:44:A:ASP:N	1:44:A:ASP:CA	1:44:A:ASP:C	1:45:A:GLN:N	1	2.23
(1,164)	1:44:A:ASP:N	1:44:A:ASP:CA	1:44:A:ASP:C	1:45:A:GLN:N	9	2.22
(1,115)	1:56:A:PHE:C	1:57:A:ARG:N	1:57:A:ARG:CA	1:57:A:ARG:C	18	2.22
(1,91)	1:39:A:SER:C	1:40:A:CYS:N	1:40:A:CYS:CA	1:40:A:CYS:C	12	2.22
(1,116)	1:56:B:PHE:C	1:57:B:ARG:N	1:57:B:ARG:CA	1:57:B:ARG:C	15	2.21
(1,91)	1:39:A:SER:C	1:40:A:CYS:N	1:40:A:CYS:CA	1:40:A:CYS:C	19	2.21
(1,267)	1:55:A:HIS:N	1:55:A:HIS:CA	1:55:A:HIS:CB	1:55:A:HIS:CG	16	2.2
(1,243)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:CB	1:29:A:LEU:CG	14	2.2
(1,87)	1:37:A:GLU:C	1:38:A:VAL:N	1:38:A:VAL:CA	1:38:A:VAL:C	4	2.19
(1,164)	1:44:A:ASP:N	1:44:A:ASP:CA	1:44:A:ASP:C	1:45:A:GLN:N	7	2.18
(1,177)	1:60:A:HIS:N	1:60:A:HIS:CA	1:60:A:HIS:C	1:61:A:PHE:N	3	2.17
(1,91)	1:39:A:SER:C	1:40:A:CYS:N	1:40:A:CYS:CA	1:40:A:CYS:C	14	2.15

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,87)	1:37:A:GLU:C	1:38:A:VAL:N	1:38:A:VAL:CA	1:38:A:VAL:C	15	2.15
(1,141)	1:18:A:GLY:N	1:18:A:GLY:CA	1:18:A:GLY:C	1:19:A:GLY:N	11	2.14
(1,88)	1:37:B:GLU:C	1:38:B:VAL:N	1:38:B:VAL:CA	1:38:B:VAL:C	8	2.14
(1,268)	1:55:B:HIS:N	1:55:B:HIS:CA	1:55:B:HIS:CB	1:55:B:HIS:CG	20	2.13
(1,267)	1:55:A:HIS:N	1:55:A:HIS:CA	1:55:A:HIS:CB	1:55:A:HIS:CG	17	2.13
(1,244)	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:CB	1:29:B:LEU:CG	5	2.13
(1,244)	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:CB	1:29:B:LEU:CG	14	2.13
(1,243)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:CB	1:29:A:LEU:CG	4	2.13
(1,92)	1:39:B:SER:C	1:40:B:CYS:N	1:40:B:CYS:CA	1:40:B:CYS:C	6	2.12
(1,177)	1:60:A:HIS:N	1:60:A:HIS:CA	1:60:A:HIS:C	1:61:A:PHE:N	20	2.11
(1,267)	1:55:A:HIS:N	1:55:A:HIS:CA	1:55:A:HIS:CB	1:55:A:HIS:CG	6	2.1
(1,113)	1:54:A:GLU:C	1:55:A:HIS:N	1:55:A:HIS:CA	1:55:A:HIS:C	11	2.09
(1,88)	1:37:B:GLU:C	1:38:B:VAL:N	1:38:B:VAL:CA	1:38:B:VAL:C	5	2.09
(1,88)	1:37:B:GLU:C	1:38:B:VAL:N	1:38:B:VAL:CA	1:38:B:VAL:C	13	2.08
(1,243)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:CB	1:29:A:LEU:CG	9	2.07
(1,115)	1:56:A:PHE:C	1:57:A:ARG:N	1:57:A:ARG:CA	1:57:A:ARG:C	11	2.07
(1,87)	1:37:A:GLU:C	1:38:A:VAL:N	1:38:A:VAL:CA	1:38:A:VAL:C	10	2.07
(1,271)	1:57:A:ARG:N	1:57:A:ARG:CA	1:57:A:ARG:CB	1:57:A:ARG:CG	12	2.06
(1,243)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:CB	1:29:A:LEU:CG	16	2.06
(1,88)	1:37:B:GLU:C	1:38:B:VAL:N	1:38:B:VAL:CA	1:38:B:VAL:C	4	2.06
(1,244)	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:CB	1:29:B:LEU:CG	7	2.05
(1,244)	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:CB	1:29:B:LEU:CG	17	2.05
(1,244)	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:CB	1:29:B:LEU:CG	19	2.05
(1,88)	1:37:B:GLU:C	1:38:B:VAL:N	1:38:B:VAL:CA	1:38:B:VAL:C	6	2.05
(1,87)	1:37:A:GLU:C	1:38:A:VAL:N	1:38:A:VAL:CA	1:38:A:VAL:C	5	2.05
(1,244)	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:CB	1:29:B:LEU:CG	10	2.04
(1,177)	1:60:A:HIS:N	1:60:A:HIS:CA	1:60:A:HIS:C	1:61:A:PHE:N	15	2.04
(1,62)	1:22:B:ASN:C	1:23:B:LEU:N	1:23:B:LEU:CA	1:23:B:LEU:C	15	2.04
(1,243)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:CB	1:29:A:LEU:CG	13	2.03
(1,227)	1:60:B:HIS:N	1:60:B:HIS:CA	1:60:B:HIS:C	1:61:B:PHE:N	11	2.03
(1,271)	1:57:A:ARG:N	1:57:A:ARG:CA	1:57:A:ARG:CB	1:57:A:ARG:CG	4	2.0
(1,268)	1:55:B:HIS:N	1:55:B:HIS:CA	1:55:B:HIS:CB	1:55:B:HIS:CG	3	1.99
(1,244)	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:CB	1:29:B:LEU:CG	4	1.99
(1,243)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:CB	1:29:A:LEU:CG	3	1.99
(1,243)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:CB	1:29:A:LEU:CG	8	1.98
(1,243)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:CB	1:29:A:LEU:CG	20	1.98
(1,145)	1:22:A:ASN:N	1:22:A:ASN:CA	1:22:A:ASN:C	1:23:A:LEU:N	15	1.98
(1,277)	1:61:A:PHE:N	1:61:A:PHE:CA	1:61:A:PHE:CB	1:61:A:PHE:CG	1	1.97
(1,177)	1:60:A:HIS:N	1:60:A:HIS:CA	1:60:A:HIS:C	1:61:A:PHE:N	19	1.97
(1,62)	1:22:B:ASN:C	1:23:B:LEU:N	1:23:B:LEU:CA	1:23:B:LEU:C	12	1.97
(1,244)	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:CB	1:29:B:LEU:CG	16	1.96
(1,243)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:CB	1:29:A:LEU:CG	10	1.96
(1,243)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:CB	1:29:A:LEU:CG	18	1.96
(1,243)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:CB	1:29:A:LEU:CG	5	1.95
(1,243)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:CB	1:29:A:LEU:CG	12	1.94
(1,87)	1:37:A:GLU:C	1:38:A:VAL:N	1:38:A:VAL:CA	1:38:A:VAL:C	14	1.94
(1,244)	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:CB	1:29:B:LEU:CG	1	1.93
(1,244)	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:CB	1:29:B:LEU:CG	2	1.93
(1,227)	1:60:B:HIS:N	1:60:B:HIS:CA	1:60:B:HIS:C	1:61:B:PHE:N	4	1.93
(1,61)	1:22:A:ASN:C	1:23:A:LEU:N	1:23:A:LEU:CA	1:23:A:LEU:C	15	1.93
(1,271)	1:57:A:ARG:N	1:57:A:ARG:CA	1:57:A:ARG:CB	1:57:A:ARG:CG	11	1.92

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,244)	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:CB	1:29:B:LEU:CG	18	1.92
(1,177)	1:60:A:HIS:N	1:60:A:HIS:CA	1:60:A:HIS:C	1:61:A:PHE:N	5	1.92
(1,34)	1:33:B:PRO:N	1:33:B:PRO:CA	1:33:B:PRO:C	1:34:B:ALA:N	16	1.92
(1,272)	1:57:B:ARG:N	1:57:B:ARG:CA	1:57:B:ARG:CB	1:57:B:ARG:CG	15	1.91
(1,243)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:CB	1:29:A:LEU:CG	19	1.91
(1,215)	1:45:B:GLN:N	1:45:B:GLN:CA	1:45:B:GLN:C	1:46:B:ARG:N	14	1.91
(1,168)	1:49:A:LEU:N	1:49:A:LEU:CA	1:49:A:LEU:C	1:50:A:ASP:N	3	1.91
(1,243)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:CB	1:29:A:LEU:CG	1	1.9
(1,243)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:CB	1:29:A:LEU:CG	11	1.9
(1,114)	1:54:B:GLU:C	1:55:B:HIS:N	1:55:B:HIS:CA	1:55:B:HIS:C	11	1.9
(1,268)	1:55:B:HIS:N	1:55:B:HIS:CA	1:55:B:HIS:CB	1:55:B:HIS:CG	7	1.89
(1,268)	1:55:B:HIS:N	1:55:B:HIS:CA	1:55:B:HIS:CB	1:55:B:HIS:CG	9	1.89
(1,267)	1:55:A:HIS:N	1:55:A:HIS:CA	1:55:A:HIS:CB	1:55:A:HIS:CG	13	1.89
(1,243)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:CB	1:29:A:LEU:CG	6	1.89
(1,177)	1:60:A:HIS:N	1:60:A:HIS:CA	1:60:A:HIS:C	1:61:A:PHE:N	12	1.89
(1,244)	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:CB	1:29:B:LEU:CG	9	1.88
(1,244)	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:CB	1:29:B:LEU:CG	20	1.88
(1,91)	1:39:A:SER:C	1:40:A:CYS:N	1:40:A:CYS:CA	1:40:A:CYS:C	6	1.88
(1,87)	1:37:A:GLU:C	1:38:A:VAL:N	1:38:A:VAL:CA	1:38:A:VAL:C	8	1.88
(1,87)	1:37:A:GLU:C	1:38:A:VAL:N	1:38:A:VAL:CA	1:38:A:VAL:C	9	1.88
(1,87)	1:37:A:GLU:C	1:38:A:VAL:N	1:38:A:VAL:CA	1:38:A:VAL:C	19	1.88
(1,244)	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:CB	1:29:B:LEU:CG	13	1.87
(1,113)	1:54:A:GLU:C	1:55:A:HIS:N	1:55:A:HIS:CA	1:55:A:HIS:C	18	1.87
(1,244)	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:CB	1:29:B:LEU:CG	3	1.86
(1,215)	1:45:B:GLN:N	1:45:B:GLN:CA	1:45:B:GLN:C	1:46:B:ARG:N	6	1.86
(1,33)	1:33:A:PRO:N	1:33:A:PRO:CA	1:33:A:PRO:C	1:34:A:ALA:N	6	1.86
(1,277)	1:61:A:PHE:N	1:61:A:PHE:CA	1:61:A:PHE:CB	1:61:A:PHE:CG	19	1.85
(1,277)	1:61:A:PHE:N	1:61:A:PHE:CA	1:61:A:PHE:CB	1:61:A:PHE:CG	20	1.84
(1,227)	1:60:B:HIS:N	1:60:B:HIS:CA	1:60:B:HIS:C	1:61:B:PHE:N	18	1.84
(1,278)	1:61:B:PHE:N	1:61:B:PHE:CA	1:61:B:PHE:CB	1:61:B:PHE:CG	5	1.83
(1,272)	1:57:B:ARG:N	1:57:B:ARG:CA	1:57:B:ARG:CB	1:57:B:ARG:CG	3	1.83
(1,244)	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:CB	1:29:B:LEU:CG	11	1.83
(1,55)	1:18:A:GLY:C	1:19:A:GLY:N	1:19:A:GLY:CA	1:19:A:GLY:C	11	1.83
(1,272)	1:57:B:ARG:N	1:57:B:ARG:CA	1:57:B:ARG:CB	1:57:B:ARG:CG	19	1.82
(1,244)	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:CB	1:29:B:LEU:CG	12	1.82
(1,165)	1:45:A:GLN:N	1:45:A:GLN:CA	1:45:A:GLN:C	1:46:A:ARG:N	15	1.82
(1,88)	1:37:B:GLU:C	1:38:B:VAL:N	1:38:B:VAL:CA	1:38:B:VAL:C	2	1.82
(1,87)	1:37:A:GLU:C	1:38:A:VAL:N	1:38:A:VAL:CA	1:38:A:VAL:C	3	1.82
(1,34)	1:33:B:PRO:N	1:33:B:PRO:CA	1:33:B:PRO:C	1:34:B:ALA:N	1	1.82
(1,277)	1:61:A:PHE:N	1:61:A:PHE:CA	1:61:A:PHE:CB	1:61:A:PHE:CG	5	1.8
(1,243)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:CB	1:29:A:LEU:CG	7	1.8
(1,227)	1:60:B:HIS:N	1:60:B:HIS:CA	1:60:B:HIS:C	1:61:B:PHE:N	7	1.8
(1,168)	1:49:A:LEU:N	1:49:A:LEU:CA	1:49:A:LEU:C	1:50:A:ASP:N	7	1.8
(1,87)	1:37:A:GLU:C	1:38:A:VAL:N	1:38:A:VAL:CA	1:38:A:VAL:C	1	1.8
(1,87)	1:37:A:GLU:C	1:38:A:VAL:N	1:38:A:VAL:CA	1:38:A:VAL:C	12	1.8
(1,62)	1:22:B:ASN:C	1:23:B:LEU:N	1:23:B:LEU:CA	1:23:B:LEU:C	17	1.8
(1,87)	1:37:A:GLU:C	1:38:A:VAL:N	1:38:A:VAL:CA	1:38:A:VAL:C	2	1.79
(1,87)	1:37:A:GLU:C	1:38:A:VAL:N	1:38:A:VAL:CA	1:38:A:VAL:C	20	1.79
(1,34)	1:33:B:PRO:N	1:33:B:PRO:CA	1:33:B:PRO:C	1:34:B:ALA:N	10	1.79
(1,177)	1:60:A:HIS:N	1:60:A:HIS:CA	1:60:A:HIS:C	1:61:A:PHE:N	14	1.78
(1,79)	1:33:A:PRO:C	1:34:A:ALA:N	1:34:A:ALA:CA	1:34:A:ALA:C	4	1.78

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,34)	1:33:B:PRO:N	1:33:B:PRO:CA	1:33:B:PRO:C	1:34:B:ALA:N	4	1.78
(1,243)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:CB	1:29:A:LEU:CG	2	1.77
(1,168)	1:49:A:LEU:N	1:49:A:LEU:CA	1:49:A:LEU:C	1:50:A:ASP:N	14	1.77
(1,277)	1:61:A:PHE:N	1:61:A:PHE:CA	1:61:A:PHE:CB	1:61:A:PHE:CG	4	1.76
(1,267)	1:55:A:HIS:N	1:55:A:HIS:CA	1:55:A:HIS:CB	1:55:A:HIS:CG	8	1.76
(1,62)	1:22:B:ASN:C	1:23:B:LEU:N	1:23:B:LEU:CA	1:23:B:LEU:C	2	1.76
(1,268)	1:55:B:HIS:N	1:55:B:HIS:CA	1:55:B:HIS:CB	1:55:B:HIS:CG	14	1.75
(1,267)	1:55:A:HIS:N	1:55:A:HIS:CA	1:55:A:HIS:CB	1:55:A:HIS:CG	15	1.75
(1,215)	1:45:B:GLN:N	1:45:B:GLN:CA	1:45:B:GLN:C	1:46:B:ARG:N	8	1.75
(1,88)	1:37:B:GLU:C	1:38:B:VAL:N	1:38:B:VAL:CA	1:38:B:VAL:C	20	1.75
(1,271)	1:57:A:ARG:N	1:57:A:ARG:CA	1:57:A:ARG:CB	1:57:A:ARG:CG	8	1.74
(1,277)	1:61:A:PHE:N	1:61:A:PHE:CA	1:61:A:PHE:CB	1:61:A:PHE:CG	14	1.72
(1,271)	1:57:A:ARG:N	1:57:A:ARG:CA	1:57:A:ARG:CB	1:57:A:ARG:CG	18	1.72
(1,168)	1:49:A:LEU:N	1:49:A:LEU:CA	1:49:A:LEU:C	1:50:A:ASP:N	19	1.72
(1,165)	1:45:A:GLN:N	1:45:A:GLN:CA	1:45:A:GLN:C	1:46:A:ARG:N	8	1.72
(1,34)	1:33:B:PRO:N	1:33:B:PRO:CA	1:33:B:PRO:C	1:34:B:ALA:N	13	1.72
(1,272)	1:57:B:ARG:N	1:57:B:ARG:CA	1:57:B:ARG:CB	1:57:B:ARG:CG	6	1.71
(1,165)	1:45:A:GLN:N	1:45:A:GLN:CA	1:45:A:GLN:C	1:46:A:ARG:N	13	1.71
(1,165)	1:45:A:GLN:N	1:45:A:GLN:CA	1:45:A:GLN:C	1:46:A:ARG:N	18	1.71
(1,33)	1:33:A:PRO:N	1:33:A:PRO:CA	1:33:A:PRO:C	1:34:A:ALA:N	1	1.71
(1,277)	1:61:A:PHE:N	1:61:A:PHE:CA	1:61:A:PHE:CB	1:61:A:PHE:CG	7	1.7
(1,272)	1:57:B:ARG:N	1:57:B:ARG:CA	1:57:B:ARG:CB	1:57:B:ARG:CG	11	1.7
(1,33)	1:33:A:PRO:N	1:33:A:PRO:CA	1:33:A:PRO:C	1:34:A:ALA:N	16	1.7
(1,272)	1:57:B:ARG:N	1:57:B:ARG:CA	1:57:B:ARG:CB	1:57:B:ARG:CG	14	1.69
(1,272)	1:57:B:ARG:N	1:57:B:ARG:CA	1:57:B:ARG:CB	1:57:B:ARG:CG	16	1.69
(1,177)	1:60:A:HIS:N	1:60:A:HIS:CA	1:60:A:HIS:C	1:61:A:PHE:N	11	1.69
(1,168)	1:49:A:LEU:N	1:49:A:LEU:CA	1:49:A:LEU:C	1:50:A:ASP:N	20	1.69
(1,62)	1:22:B:ASN:C	1:23:B:LEU:N	1:23:B:LEU:CA	1:23:B:LEU:C	18	1.69
(1,278)	1:61:B:PHE:N	1:61:B:PHE:CA	1:61:B:PHE:CB	1:61:B:PHE:CG	20	1.68
(1,268)	1:55:B:HIS:N	1:55:B:HIS:CA	1:55:B:HIS:CB	1:55:B:HIS:CG	17	1.68
(1,91)	1:39:A:SER:C	1:40:A:CYS:N	1:40:A:CYS:CA	1:40:A:CYS:C	13	1.68
(1,62)	1:22:B:ASN:C	1:23:B:LEU:N	1:23:B:LEU:CA	1:23:B:LEU:C	3	1.68
(1,33)	1:33:A:PRO:N	1:33:A:PRO:CA	1:33:A:PRO:C	1:34:A:ALA:N	9	1.68
(1,272)	1:57:B:ARG:N	1:57:B:ARG:CA	1:57:B:ARG:CB	1:57:B:ARG:CG	12	1.67
(1,271)	1:57:A:ARG:N	1:57:A:ARG:CA	1:57:A:ARG:CB	1:57:A:ARG:CG	2	1.67
(1,218)	1:49:B:LEU:N	1:49:B:LEU:CA	1:49:B:LEU:C	1:50:B:ASP:N	15	1.67
(1,168)	1:49:A:LEU:N	1:49:A:LEU:CA	1:49:A:LEU:C	1:50:A:ASP:N	12	1.67
(1,62)	1:22:B:ASN:C	1:23:B:LEU:N	1:23:B:LEU:CA	1:23:B:LEU:C	13	1.67
(1,33)	1:33:A:PRO:N	1:33:A:PRO:CA	1:33:A:PRO:C	1:34:A:ALA:N	13	1.67
(1,271)	1:57:A:ARG:N	1:57:A:ARG:CA	1:57:A:ARG:CB	1:57:A:ARG:CG	1	1.66
(1,243)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:CB	1:29:A:LEU:CG	17	1.66
(1,114)	1:54:B:GLU:C	1:55:B:HIS:N	1:55:B:HIS:CA	1:55:B:HIS:C	15	1.66
(1,33)	1:33:A:PRO:N	1:33:A:PRO:CA	1:33:A:PRO:C	1:34:A:ALA:N	11	1.66
(1,33)	1:33:A:PRO:N	1:33:A:PRO:CA	1:33:A:PRO:C	1:34:A:ALA:N	12	1.66
(1,33)	1:33:A:PRO:N	1:33:A:PRO:CA	1:33:A:PRO:C	1:34:A:ALA:N	19	1.66
(1,272)	1:57:B:ARG:N	1:57:B:ARG:CA	1:57:B:ARG:CB	1:57:B:ARG:CG	4	1.65
(1,215)	1:45:B:GLN:N	1:45:B:GLN:CA	1:45:B:GLN:C	1:46:B:ARG:N	11	1.65
(1,61)	1:22:A:ASN:C	1:23:A:LEU:N	1:23:A:LEU:CA	1:23:A:LEU:C	8	1.65
(1,61)	1:22:A:ASN:C	1:23:A:LEU:N	1:23:A:LEU:CA	1:23:A:LEU:C	12	1.65
(1,33)	1:33:A:PRO:N	1:33:A:PRO:CA	1:33:A:PRO:C	1:34:A:ALA:N	14	1.64
(1,215)	1:45:B:GLN:N	1:45:B:GLN:CA	1:45:B:GLN:C	1:46:B:ARG:N	7	1.63

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,177)	1:60:A:HIS:N	1:60:A:HIS:CA	1:60:A:HIS:C	1:61:A:PHE:N	7	1.63
(1,62)	1:22:B:ASN:C	1:23:B:LEU:N	1:23:B:LEU:CA	1:23:B:LEU:C	1	1.63
(1,61)	1:22:A:ASN:C	1:23:A:LEU:N	1:23:A:LEU:CA	1:23:A:LEU:C	20	1.63
(1,277)	1:61:A:PHE:N	1:61:A:PHE:CA	1:61:A:PHE:CB	1:61:A:PHE:CG	2	1.62
(1,277)	1:61:A:PHE:N	1:61:A:PHE:CA	1:61:A:PHE:CB	1:61:A:PHE:CG	3	1.62
(1,272)	1:57:B:ARG:N	1:57:B:ARG:CA	1:57:B:ARG:CB	1:57:B:ARG:CG	10	1.62
(1,271)	1:57:A:ARG:N	1:57:A:ARG:CA	1:57:A:ARG:CB	1:57:A:ARG:CG	5	1.62
(1,257)	1:41:A:LEU:N	1:41:A:LEU:CA	1:41:A:LEU:CB	1:41:A:LEU:CG	6	1.62
(1,257)	1:41:A:LEU:N	1:41:A:LEU:CA	1:41:A:LEU:CB	1:41:A:LEU:CG	7	1.62
(1,80)	1:33:B:PRO:C	1:34:B:ALA:N	1:34:B:ALA:CA	1:34:B:ALA:C	4	1.62
(1,33)	1:33:A:PRO:N	1:33:A:PRO:CA	1:33:A:PRO:C	1:34:A:ALA:N	10	1.62
(1,33)	1:33:A:PRO:N	1:33:A:PRO:CA	1:33:A:PRO:C	1:34:A:ALA:N	17	1.62
(1,271)	1:57:A:ARG:N	1:57:A:ARG:CA	1:57:A:ARG:CB	1:57:A:ARG:CG	13	1.61
(1,34)	1:33:B:PRO:N	1:33:B:PRO:CA	1:33:B:PRO:C	1:34:B:ALA:N	6	1.61
(1,271)	1:57:A:ARG:N	1:57:A:ARG:CA	1:57:A:ARG:CB	1:57:A:ARG:CG	10	1.6
(1,271)	1:57:A:ARG:N	1:57:A:ARG:CA	1:57:A:ARG:CB	1:57:A:ARG:CG	14	1.6
(1,87)	1:37:A:GLU:C	1:38:A:VAL:N	1:38:A:VAL:CA	1:38:A:VAL:C	7	1.6
(1,268)	1:55:B:HIS:N	1:55:B:HIS:CA	1:55:B:HIS:CB	1:55:B:HIS:CG	12	1.59
(1,88)	1:37:B:GLU:C	1:38:B:VAL:N	1:38:B:VAL:CA	1:38:B:VAL:C	18	1.59
(1,33)	1:33:A:PRO:N	1:33:A:PRO:CA	1:33:A:PRO:C	1:34:A:ALA:N	8	1.59
(1,272)	1:57:B:ARG:N	1:57:B:ARG:CA	1:57:B:ARG:CB	1:57:B:ARG:CG	7	1.58
(1,271)	1:57:A:ARG:N	1:57:A:ARG:CA	1:57:A:ARG:CB	1:57:A:ARG:CG	20	1.58
(1,268)	1:55:B:HIS:N	1:55:B:HIS:CA	1:55:B:HIS:CB	1:55:B:HIS:CG	19	1.58
(1,227)	1:60:B:HIS:N	1:60:B:HIS:CA	1:60:B:HIS:C	1:61:B:PHE:N	17	1.58
(1,91)	1:39:A:SER:C	1:40:A:CYS:N	1:40:A:CYS:CA	1:40:A:CYS:C	16	1.58
(1,268)	1:55:B:HIS:N	1:55:B:HIS:CA	1:55:B:HIS:CB	1:55:B:HIS:CG	6	1.57
(1,218)	1:49:B:LEU:N	1:49:B:LEU:CA	1:49:B:LEU:C	1:50:B:ASP:N	19	1.57
(1,91)	1:39:A:SER:C	1:40:A:CYS:N	1:40:A:CYS:CA	1:40:A:CYS:C	8	1.57
(1,61)	1:22:A:ASN:C	1:23:A:LEU:N	1:23:A:LEU:CA	1:23:A:LEU:C	9	1.57
(1,34)	1:33:B:PRO:N	1:33:B:PRO:CA	1:33:B:PRO:C	1:34:B:ALA:N	7	1.57
(1,272)	1:57:B:ARG:N	1:57:B:ARG:CA	1:57:B:ARG:CB	1:57:B:ARG:CG	1	1.56
(1,244)	1:29:B:LEU:N	1:29:B:LEU:CA	1:29:B:LEU:CB	1:29:B:LEU:CG	15	1.56
(1,218)	1:49:B:LEU:N	1:49:B:LEU:CA	1:49:B:LEU:C	1:50:B:ASP:N	3	1.56
(1,218)	1:49:B:LEU:N	1:49:B:LEU:CA	1:49:B:LEU:C	1:50:B:ASP:N	8	1.56
(1,215)	1:45:B:GLN:N	1:45:B:GLN:CA	1:45:B:GLN:C	1:46:B:ARG:N	12	1.56
(1,165)	1:45:A:GLN:N	1:45:A:GLN:CA	1:45:A:GLN:C	1:46:A:ARG:N	16	1.56
(1,62)	1:22:B:ASN:C	1:23:B:LEU:N	1:23:B:LEU:CA	1:23:B:LEU:C	7	1.56
(1,33)	1:33:A:PRO:N	1:33:A:PRO:CA	1:33:A:PRO:C	1:34:A:ALA:N	5	1.56
(1,33)	1:33:A:PRO:N	1:33:A:PRO:CA	1:33:A:PRO:C	1:34:A:ALA:N	20	1.56
(1,272)	1:57:B:ARG:N	1:57:B:ARG:CA	1:57:B:ARG:CB	1:57:B:ARG:CG	8	1.55
(1,257)	1:41:A:LEU:N	1:41:A:LEU:CA	1:41:A:LEU:CB	1:41:A:LEU:CG	3	1.55
(1,215)	1:45:B:GLN:N	1:45:B:GLN:CA	1:45:B:GLN:C	1:46:B:ARG:N	9	1.55
(1,34)	1:33:B:PRO:N	1:33:B:PRO:CA	1:33:B:PRO:C	1:34:B:ALA:N	8	1.55
(1,277)	1:61:A:PHE:N	1:61:A:PHE:CA	1:61:A:PHE:CB	1:61:A:PHE:CG	6	1.54
(1,195)	1:22:B:ASN:N	1:22:B:ASN:CA	1:22:B:ASN:C	1:23:B:LEU:N	2	1.54
(1,88)	1:37:B:GLU:C	1:38:B:VAL:N	1:38:B:VAL:CA	1:38:B:VAL:C	3	1.54
(1,33)	1:33:A:PRO:N	1:33:A:PRO:CA	1:33:A:PRO:C	1:34:A:ALA:N	15	1.54
(1,272)	1:57:B:ARG:N	1:57:B:ARG:CA	1:57:B:ARG:CB	1:57:B:ARG:CG	5	1.53
(1,258)	1:41:B:LEU:N	1:41:B:LEU:CA	1:41:B:LEU:CB	1:41:B:LEU:CG	6	1.53
(1,227)	1:60:B:HIS:N	1:60:B:HIS:CA	1:60:B:HIS:C	1:61:B:PHE:N	13	1.53
(1,87)	1:37:A:GLU:C	1:38:A:VAL:N	1:38:A:VAL:CA	1:38:A:VAL:C	11	1.53

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,61)	1:22:A:ASN:C	1:23:A:LEU:N	1:23:A:LEU:CA	1:23:A:LEU:C	18	1.53
(1,34)	1:33:B:PRO:N	1:33:B:PRO:CA	1:33:B:PRO:C	1:34:B:ALA:N	19	1.53
(1,227)	1:60:B:HIS:N	1:60:B:HIS:CA	1:60:B:HIS:C	1:61:B:PHE:N	20	1.52
(1,195)	1:22:B:ASN:N	1:22:B:ASN:CA	1:22:B:ASN:C	1:23:B:LEU:N	12	1.52
(1,92)	1:39:B:SER:C	1:40:B:CYS:N	1:40:B:CYS:CA	1:40:B:CYS:C	7	1.52
(1,34)	1:33:B:PRO:N	1:33:B:PRO:CA	1:33:B:PRO:C	1:34:B:ALA:N	12	1.52
(1,22)	1:47:B:LEU:CA	1:47:B:LEU:CB	1:47:B:LEU:CG	1:47:B:LEU:CD1	12	1.52
(1,271)	1:57:A:ARG:N	1:57:A:ARG:CA	1:57:A:ARG:CB	1:57:A:ARG:CG	19	1.51
(1,268)	1:55:B:HIS:N	1:55:B:HIS:CA	1:55:B:HIS:CB	1:55:B:HIS:CG	1	1.51
(1,278)	1:61:B:PHE:N	1:61:B:PHE:CA	1:61:B:PHE:CB	1:61:B:PHE:CG	13	1.5
(1,278)	1:61:B:PHE:N	1:61:B:PHE:CA	1:61:B:PHE:CB	1:61:B:PHE:CG	16	1.5
(1,272)	1:57:B:ARG:N	1:57:B:ARG:CA	1:57:B:ARG:CB	1:57:B:ARG:CG	13	1.5
(1,272)	1:57:B:ARG:N	1:57:B:ARG:CA	1:57:B:ARG:CB	1:57:B:ARG:CG	17	1.5
(1,271)	1:57:A:ARG:N	1:57:A:ARG:CA	1:57:A:ARG:CB	1:57:A:ARG:CG	7	1.5
(1,258)	1:41:B:LEU:N	1:41:B:LEU:CA	1:41:B:LEU:CB	1:41:B:LEU:CG	9	1.5
(1,258)	1:41:B:LEU:N	1:41:B:LEU:CA	1:41:B:LEU:CB	1:41:B:LEU:CG	19	1.5
(1,218)	1:49:B:LEU:N	1:49:B:LEU:CA	1:49:B:LEU:C	1:50:B:ASP:N	14	1.5
(1,165)	1:45:A:GLN:N	1:45:A:GLN:CA	1:45:A:GLN:C	1:46:A:ARG:N	10	1.5
(1,88)	1:37:B:GLU:C	1:38:B:VAL:N	1:38:B:VAL:CA	1:38:B:VAL:C	16	1.5
(1,215)	1:45:B:GLN:N	1:45:B:GLN:CA	1:45:B:GLN:C	1:46:B:ARG:N	10	1.49
(1,168)	1:49:A:LEU:N	1:49:A:LEU:CA	1:49:A:LEU:C	1:50:A:ASP:N	10	1.49
(1,123)	1:60:A:HIS:C	1:61:A:PHE:N	1:61:A:PHE:CA	1:61:A:PHE:C	6	1.49
(1,33)	1:33:A:PRO:N	1:33:A:PRO:CA	1:33:A:PRO:C	1:34:A:ALA:N	18	1.49
(1,34)	1:33:B:PRO:N	1:33:B:PRO:CA	1:33:B:PRO:C	1:34:B:ALA:N	11	1.48
(1,249)	1:37:A:GLU:N	1:37:A:GLU:CA	1:37:A:GLU:CB	1:37:A:GLU:CG	6	1.47
(1,243)	1:29:A:LEU:N	1:29:A:LEU:CA	1:29:A:LEU:CB	1:29:A:LEU:CG	15	1.47
(1,218)	1:49:B:LEU:N	1:49:B:LEU:CA	1:49:B:LEU:C	1:50:B:ASP:N	7	1.47
(1,218)	1:49:B:LEU:N	1:49:B:LEU:CA	1:49:B:LEU:C	1:50:B:ASP:N	18	1.47
(1,164)	1:44:A:ASP:N	1:44:A:ASP:CA	1:44:A:ASP:C	1:45:A:GLN:N	5	1.47
(1,87)	1:37:A:GLU:C	1:38:A:VAL:N	1:38:A:VAL:CA	1:38:A:VAL:C	17	1.47
(1,33)	1:33:A:PRO:N	1:33:A:PRO:CA	1:33:A:PRO:C	1:34:A:ALA:N	7	1.47
(1,22)	1:47:B:LEU:CA	1:47:B:LEU:CB	1:47:B:LEU:CG	1:47:B:LEU:CD1	7	1.47
(1,271)	1:57:A:ARG:N	1:57:A:ARG:CA	1:57:A:ARG:CB	1:57:A:ARG:CG	9	1.46
(1,271)	1:57:A:ARG:N	1:57:A:ARG:CA	1:57:A:ARG:CB	1:57:A:ARG:CG	17	1.46
(1,257)	1:41:A:LEU:N	1:41:A:LEU:CA	1:41:A:LEU:CB	1:41:A:LEU:CG	10	1.46
(1,257)	1:41:A:LEU:N	1:41:A:LEU:CA	1:41:A:LEU:CB	1:41:A:LEU:CG	15	1.46
(1,227)	1:60:B:HIS:N	1:60:B:HIS:CA	1:60:B:HIS:C	1:61:B:PHE:N	19	1.46
(1,215)	1:45:B:GLN:N	1:45:B:GLN:CA	1:45:B:GLN:C	1:46:B:ARG:N	17	1.46
(1,177)	1:60:A:HIS:N	1:60:A:HIS:CA	1:60:A:HIS:C	1:61:A:PHE:N	17	1.46
(1,272)	1:57:B:ARG:N	1:57:B:ARG:CA	1:57:B:ARG:CB	1:57:B:ARG:CG	2	1.45
(1,271)	1:57:A:ARG:N	1:57:A:ARG:CA	1:57:A:ARG:CB	1:57:A:ARG:CG	16	1.45
(1,268)	1:55:B:HIS:N	1:55:B:HIS:CA	1:55:B:HIS:CB	1:55:B:HIS:CG	8	1.45
(1,214)	1:44:B:ASP:N	1:44:B:ASP:CA	1:44:B:ASP:C	1:45:B:GLN:N	2	1.45
(1,88)	1:37:B:GLU:C	1:38:B:VAL:N	1:38:B:VAL:CA	1:38:B:VAL:C	15	1.45
(1,218)	1:49:B:LEU:N	1:49:B:LEU:CA	1:49:B:LEU:C	1:50:B:ASP:N	1	1.44
(1,92)	1:39:B:SER:C	1:40:B:CYS:N	1:40:B:CYS:CA	1:40:B:CYS:C	1	1.44
(1,61)	1:22:A:ASN:C	1:23:A:LEU:N	1:23:A:LEU:CA	1:23:A:LEU:C	14	1.44
(1,278)	1:61:B:PHE:N	1:61:B:PHE:CA	1:61:B:PHE:CB	1:61:B:PHE:CG	9	1.43
(1,271)	1:57:A:ARG:N	1:57:A:ARG:CA	1:57:A:ARG:CB	1:57:A:ARG:CG	15	1.43
(1,250)	1:37:B:GLU:N	1:37:B:GLU:CA	1:37:B:GLU:CB	1:37:B:GLU:CG	8	1.43
(1,249)	1:37:A:GLU:N	1:37:A:GLU:CA	1:37:A:GLU:CB	1:37:A:GLU:CG	20	1.43

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,168)	1:49:A:LEU:N	1:49:A:LEU:CA	1:49:A:LEU:C	1:50:A:ASP:N	15	1.43
(1,164)	1:44:A:ASP:N	1:44:A:ASP:CA	1:44:A:ASP:C	1:45:A:GLN:N	4	1.43
(1,92)	1:39:B:SER:C	1:40:B:CYS:N	1:40:B:CYS:CA	1:40:B:CYS:C	12	1.43
(1,271)	1:57:A:ARG:N	1:57:A:ARG:CA	1:57:A:ARG:CB	1:57:A:ARG:CG	6	1.42
(1,268)	1:55:B:HIS:N	1:55:B:HIS:CA	1:55:B:HIS:CB	1:55:B:HIS:CG	10	1.42
(1,92)	1:39:B:SER:C	1:40:B:CYS:N	1:40:B:CYS:CA	1:40:B:CYS:C	17	1.42
(1,34)	1:33:B:PRO:N	1:33:B:PRO:CA	1:33:B:PRO:C	1:34:B:ALA:N	9	1.42
(1,34)	1:33:B:PRO:N	1:33:B:PRO:CA	1:33:B:PRO:C	1:34:B:ALA:N	17	1.42
(1,34)	1:33:B:PRO:N	1:33:B:PRO:CA	1:33:B:PRO:C	1:34:B:ALA:N	20	1.42
(1,250)	1:37:B:GLU:N	1:37:B:GLU:CA	1:37:B:GLU:CB	1:37:B:GLU:CG	19	1.41
(1,234)	1:20:B:TYR:N	1:20:B:TYR:CA	1:20:B:TYR:CB	1:20:B:TYR:CG	4	1.41
(1,91)	1:39:A:SER:C	1:40:A:CYS:N	1:40:A:CYS:CA	1:40:A:CYS:C	10	1.41
(1,272)	1:57:B:ARG:N	1:57:B:ARG:CA	1:57:B:ARG:CB	1:57:B:ARG:CG	18	1.39
(1,272)	1:57:B:ARG:N	1:57:B:ARG:CA	1:57:B:ARG:CB	1:57:B:ARG:CG	20	1.39
(1,258)	1:41:B:LEU:N	1:41:B:LEU:CA	1:41:B:LEU:CB	1:41:B:LEU:CG	1	1.39
(1,168)	1:49:A:LEU:N	1:49:A:LEU:CA	1:49:A:LEU:C	1:50:A:ASP:N	4	1.39
(1,168)	1:49:A:LEU:N	1:49:A:LEU:CA	1:49:A:LEU:C	1:50:A:ASP:N	13	1.39
(1,33)	1:33:A:PRO:N	1:33:A:PRO:CA	1:33:A:PRO:C	1:34:A:ALA:N	2	1.39
(1,22)	1:47:B:LEU:CA	1:47:B:LEU:CB	1:47:B:LEU:CG	1:47:B:LEU:CD1	17	1.39
(1,21)	1:47:A:LEU:CA	1:47:A:LEU:CB	1:47:A:LEU:CG	1:47:A:LEU:CD1	15	1.39
(1,278)	1:61:B:PHE:N	1:61:B:PHE:CA	1:61:B:PHE:CB	1:61:B:PHE:CG	18	1.38
(1,267)	1:55:A:HIS:N	1:55:A:HIS:CA	1:55:A:HIS:CB	1:55:A:HIS:CG	10	1.38
(1,265)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:CB	1:54:A:GLU:CG	6	1.38
(1,79)	1:33:A:PRO:C	1:34:A:ALA:N	1:34:A:ALA:CA	1:34:A:ALA:C	12	1.38
(1,218)	1:49:B:LEU:N	1:49:B:LEU:CA	1:49:B:LEU:C	1:50:B:ASP:N	10	1.37
(1,164)	1:44:A:ASP:N	1:44:A:ASP:CA	1:44:A:ASP:C	1:45:A:GLN:N	19	1.37
(1,123)	1:60:A:HIS:C	1:61:A:PHE:N	1:61:A:PHE:CA	1:61:A:PHE:C	9	1.37
(1,92)	1:39:B:SER:C	1:40:B:CYS:N	1:40:B:CYS:CA	1:40:B:CYS:C	19	1.37
(1,61)	1:22:A:ASN:C	1:23:A:LEU:N	1:23:A:LEU:CA	1:23:A:LEU:C	1	1.37
(1,53)	1:17:A:ALA:C	1:18:A:GLY:N	1:18:A:GLY:CA	1:18:A:GLY:C	11	1.37
(1,271)	1:57:A:ARG:N	1:57:A:ARG:CA	1:57:A:ARG:CB	1:57:A:ARG:CG	3	1.36
(1,123)	1:60:A:HIS:C	1:61:A:PHE:N	1:61:A:PHE:CA	1:61:A:PHE:C	16	1.36
(1,34)	1:33:B:PRO:N	1:33:B:PRO:CA	1:33:B:PRO:C	1:34:B:ALA:N	15	1.36
(1,34)	1:33:B:PRO:N	1:33:B:PRO:CA	1:33:B:PRO:C	1:34:B:ALA:N	18	1.36
(1,265)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:CB	1:54:A:GLU:CG	11	1.35
(1,250)	1:37:B:GLU:N	1:37:B:GLU:CA	1:37:B:GLU:CB	1:37:B:GLU:CG	20	1.35
(1,249)	1:37:A:GLU:N	1:37:A:GLU:CA	1:37:A:GLU:CB	1:37:A:GLU:CG	12	1.35
(1,168)	1:49:A:LEU:N	1:49:A:LEU:CA	1:49:A:LEU:C	1:50:A:ASP:N	1	1.35
(1,168)	1:49:A:LEU:N	1:49:A:LEU:CA	1:49:A:LEU:C	1:50:A:ASP:N	17	1.35
(1,34)	1:33:B:PRO:N	1:33:B:PRO:CA	1:33:B:PRO:C	1:34:B:ALA:N	3	1.35
(1,1)	1:24:A:ARG:N	1:24:A:ARG:CA	1:24:A:ARG:CB	1:24:A:ARG:CG	3	1.35
(1,265)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:CB	1:54:A:GLU:CG	16	1.34
(1,250)	1:37:B:GLU:N	1:37:B:GLU:CA	1:37:B:GLU:CB	1:37:B:GLU:CG	17	1.34
(1,249)	1:37:A:GLU:N	1:37:A:GLU:CA	1:37:A:GLU:CB	1:37:A:GLU:CG	19	1.34
(1,164)	1:44:A:ASP:N	1:44:A:ASP:CA	1:44:A:ASP:C	1:45:A:GLN:N	11	1.34
(1,80)	1:33:B:PRO:C	1:34:B:ALA:N	1:34:B:ALA:CA	1:34:B:ALA:C	7	1.34
(1,79)	1:33:A:PRO:C	1:34:A:ALA:N	1:34:A:ALA:CA	1:34:A:ALA:C	19	1.34
(1,62)	1:22:B:ASN:C	1:23:B:LEU:N	1:23:B:LEU:CA	1:23:B:LEU:C	9	1.34
(1,22)	1:47:B:LEU:CA	1:47:B:LEU:CB	1:47:B:LEU:CG	1:47:B:LEU:CD1	19	1.34
(1,266)	1:54:B:GLU:N	1:54:B:GLU:CA	1:54:B:GLU:CB	1:54:B:GLU:CG	16	1.33
(1,165)	1:45:A:GLN:N	1:45:A:GLN:CA	1:45:A:GLN:C	1:46:A:ARG:N	6	1.33

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,149)	1:26:A:GLY:N	1:26:A:GLY:CA	1:26:A:GLY:C	1:27:A:GLU:N	10	1.33
(1,101)	1:45:A:GLN:C	1:46:A:ARG:N	1:46:A:ARG:CA	1:46:A:ARG:C	18	1.33
(1,61)	1:22:A:ASN:C	1:23:A:LEU:N	1:23:A:LEU:CA	1:23:A:LEU:C	2	1.33
(1,61)	1:22:A:ASN:C	1:23:A:LEU:N	1:23:A:LEU:CA	1:23:A:LEU:C	19	1.33
(1,33)	1:33:A:PRO:N	1:33:A:PRO:CA	1:33:A:PRO:C	1:34:A:ALA:N	3	1.33
(1,257)	1:41:A:LEU:N	1:41:A:LEU:CA	1:41:A:LEU:CB	1:41:A:LEU:CG	16	1.32
(1,257)	1:41:A:LEU:N	1:41:A:LEU:CA	1:41:A:LEU:CB	1:41:A:LEU:CG	18	1.32
(1,249)	1:37:A:GLU:N	1:37:A:GLU:CA	1:37:A:GLU:CB	1:37:A:GLU:CG	8	1.32
(1,249)	1:37:A:GLU:N	1:37:A:GLU:CA	1:37:A:GLU:CB	1:37:A:GLU:CG	11	1.32
(1,199)	1:26:B:GLY:N	1:26:B:GLY:CA	1:26:B:GLY:C	1:27:B:GLU:N	19	1.32
(1,164)	1:44:A:ASP:N	1:44:A:ASP:CA	1:44:A:ASP:C	1:45:A:GLN:N	12	1.32
(1,164)	1:44:A:ASP:N	1:44:A:ASP:CA	1:44:A:ASP:C	1:45:A:GLN:N	14	1.32
(1,113)	1:54:A:GLU:C	1:55:A:HIS:N	1:55:A:HIS:CA	1:55:A:HIS:C	1	1.32
(1,61)	1:22:A:ASN:C	1:23:A:LEU:N	1:23:A:LEU:CA	1:23:A:LEU:C	4	1.32
(1,61)	1:22:A:ASN:C	1:23:A:LEU:N	1:23:A:LEU:CA	1:23:A:LEU:C	7	1.32
(1,272)	1:57:B:ARG:N	1:57:B:ARG:CA	1:57:B:ARG:CB	1:57:B:ARG:CG	9	1.31
(1,214)	1:44:B:ASP:N	1:44:B:ASP:CA	1:44:B:ASP:C	1:45:B:GLN:N	5	1.31
(1,92)	1:39:B:SER:C	1:40:B:CYS:N	1:40:B:CYS:CA	1:40:B:CYS:C	9	1.31
(1,92)	1:39:B:SER:C	1:40:B:CYS:N	1:40:B:CYS:CA	1:40:B:CYS:C	14	1.31
(1,250)	1:37:B:GLU:N	1:37:B:GLU:CA	1:37:B:GLU:CB	1:37:B:GLU:CG	2	1.3
(1,250)	1:37:B:GLU:N	1:37:B:GLU:CA	1:37:B:GLU:CB	1:37:B:GLU:CG	4	1.3
(1,250)	1:37:B:GLU:N	1:37:B:GLU:CA	1:37:B:GLU:CB	1:37:B:GLU:CG	13	1.3
(1,249)	1:37:A:GLU:N	1:37:A:GLU:CA	1:37:A:GLU:CB	1:37:A:GLU:CG	13	1.3
(1,218)	1:49:B:LEU:N	1:49:B:LEU:CA	1:49:B:LEU:C	1:50:B:ASP:N	20	1.3
(1,215)	1:45:B:GLN:N	1:45:B:GLN:CA	1:45:B:GLN:C	1:46:B:ARG:N	19	1.3
(1,22)	1:47:B:LEU:CA	1:47:B:LEU:CB	1:47:B:LEU:CG	1:47:B:LEU:CD1	14	1.3
(1,249)	1:37:A:GLU:N	1:37:A:GLU:CA	1:37:A:GLU:CB	1:37:A:GLU:CG	14	1.29
(1,218)	1:49:B:LEU:N	1:49:B:LEU:CA	1:49:B:LEU:C	1:50:B:ASP:N	12	1.29
(1,168)	1:49:A:LEU:N	1:49:A:LEU:CA	1:49:A:LEU:C	1:50:A:ASP:N	11	1.29
(1,80)	1:33:B:PRO:C	1:34:B:ALA:N	1:34:B:ALA:CA	1:34:B:ALA:C	1	1.29
(1,22)	1:47:B:LEU:CA	1:47:B:LEU:CB	1:47:B:LEU:CG	1:47:B:LEU:CD1	10	1.29
(1,21)	1:47:A:LEU:CA	1:47:A:LEU:CB	1:47:A:LEU:CG	1:47:A:LEU:CD1	16	1.29
(1,258)	1:41:B:LEU:N	1:41:B:LEU:CA	1:41:B:LEU:CB	1:41:B:LEU:CG	8	1.28
(1,79)	1:33:A:PRO:C	1:34:A:ALA:N	1:34:A:ALA:CA	1:34:A:ALA:C	8	1.28
(1,34)	1:33:B:PRO:N	1:33:B:PRO:CA	1:33:B:PRO:C	1:34:B:ALA:N	5	1.28
(1,22)	1:47:B:LEU:CA	1:47:B:LEU:CB	1:47:B:LEU:CG	1:47:B:LEU:CD1	1	1.28
(1,258)	1:41:B:LEU:N	1:41:B:LEU:CA	1:41:B:LEU:CB	1:41:B:LEU:CG	3	1.27
(1,258)	1:41:B:LEU:N	1:41:B:LEU:CA	1:41:B:LEU:CB	1:41:B:LEU:CG	16	1.27
(1,249)	1:37:A:GLU:N	1:37:A:GLU:CA	1:37:A:GLU:CB	1:37:A:GLU:CG	4	1.27
(1,227)	1:60:B:HIS:N	1:60:B:HIS:CA	1:60:B:HIS:C	1:61:B:PHE:N	12	1.27
(1,168)	1:49:A:LEU:N	1:49:A:LEU:CA	1:49:A:LEU:C	1:50:A:ASP:N	8	1.27
(1,143)	1:20:A:TYR:N	1:20:A:TYR:CA	1:20:A:TYR:C	1:21:A:HIS:N	3	1.27
(1,80)	1:33:B:PRO:C	1:34:B:ALA:N	1:34:B:ALA:CA	1:34:B:ALA:C	6	1.27
(1,80)	1:33:B:PRO:C	1:34:B:ALA:N	1:34:B:ALA:CA	1:34:B:ALA:C	16	1.27
(1,22)	1:47:B:LEU:CA	1:47:B:LEU:CB	1:47:B:LEU:CG	1:47:B:LEU:CD1	9	1.27
(1,277)	1:61:A:PHE:N	1:61:A:PHE:CA	1:61:A:PHE:CB	1:61:A:PHE:CG	13	1.26
(1,265)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:CB	1:54:A:GLU:CG	12	1.26
(1,258)	1:41:B:LEU:N	1:41:B:LEU:CA	1:41:B:LEU:CB	1:41:B:LEU:CG	10	1.26
(1,257)	1:41:A:LEU:N	1:41:A:LEU:CA	1:41:A:LEU:CB	1:41:A:LEU:CG	1	1.26
(1,249)	1:37:A:GLU:N	1:37:A:GLU:CA	1:37:A:GLU:CB	1:37:A:GLU:CG	9	1.26
(1,233)	1:20:A:TYR:N	1:20:A:TYR:CA	1:20:A:TYR:CB	1:20:A:TYR:CG	15	1.26

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,168)	1:49:A:LEU:N	1:49:A:LEU:CA	1:49:A:LEU:C	1:50:A:ASP:N	5	1.26
(1,101)	1:45:A:GLN:C	1:46:A:ARG:N	1:46:A:ARG:CA	1:46:A:ARG:C	15	1.26
(1,79)	1:33:A:PRO:C	1:34:A:ALA:N	1:34:A:ALA:CA	1:34:A:ALA:C	11	1.26
(1,61)	1:22:A:ASN:C	1:23:A:LEU:N	1:23:A:LEU:CA	1:23:A:LEU:C	13	1.26
(1,34)	1:33:B:PRO:N	1:33:B:PRO:CA	1:33:B:PRO:C	1:34:B:ALA:N	2	1.26
(1,34)	1:33:B:PRO:N	1:33:B:PRO:CA	1:33:B:PRO:C	1:34:B:ALA:N	14	1.26
(1,276)	1:59:B:LYS:N	1:59:B:LYS:CA	1:59:B:LYS:CB	1:59:B:LYS:CG	7	1.25
(1,250)	1:37:B:GLU:N	1:37:B:GLU:CA	1:37:B:GLU:CB	1:37:B:GLU:CG	3	1.25
(1,218)	1:49:B:LEU:N	1:49:B:LEU:CA	1:49:B:LEU:C	1:50:B:ASP:N	4	1.25
(1,80)	1:33:B:PRO:C	1:34:B:ALA:N	1:34:B:ALA:CA	1:34:B:ALA:C	19	1.25
(1,79)	1:33:A:PRO:C	1:34:A:ALA:N	1:34:A:ALA:CA	1:34:A:ALA:C	16	1.25
(1,266)	1:54:B:GLU:N	1:54:B:GLU:CA	1:54:B:GLU:CB	1:54:B:GLU:CG	6	1.24
(1,250)	1:37:B:GLU:N	1:37:B:GLU:CA	1:37:B:GLU:CB	1:37:B:GLU:CG	1	1.24
(1,250)	1:37:B:GLU:N	1:37:B:GLU:CA	1:37:B:GLU:CB	1:37:B:GLU:CG	18	1.24
(1,249)	1:37:A:GLU:N	1:37:A:GLU:CA	1:37:A:GLU:CB	1:37:A:GLU:CG	3	1.24
(1,249)	1:37:A:GLU:N	1:37:A:GLU:CA	1:37:A:GLU:CB	1:37:A:GLU:CG	7	1.24
(1,249)	1:37:A:GLU:N	1:37:A:GLU:CA	1:37:A:GLU:CB	1:37:A:GLU:CG	15	1.24
(1,215)	1:45:B:GLN:N	1:45:B:GLN:CA	1:45:B:GLN:C	1:46:B:ARG:N	1	1.24
(1,168)	1:49:A:LEU:N	1:49:A:LEU:CA	1:49:A:LEU:C	1:50:A:ASP:N	6	1.24
(1,102)	1:45:B:GLN:C	1:46:B:ARG:N	1:46:B:ARG:CA	1:46:B:ARG:C	8	1.24
(1,79)	1:33:A:PRO:C	1:34:A:ALA:N	1:34:A:ALA:CA	1:34:A:ALA:C	6	1.24
(1,22)	1:47:B:LEU:CA	1:47:B:LEU:CB	1:47:B:LEU:CG	1:47:B:LEU:CD1	6	1.24
(1,21)	1:47:A:LEU:CA	1:47:A:LEU:CB	1:47:A:LEU:CG	1:47:A:LEU:CD1	8	1.24
(1,266)	1:54:B:GLU:N	1:54:B:GLU:CA	1:54:B:GLU:CB	1:54:B:GLU:CG	18	1.23
(1,250)	1:37:B:GLU:N	1:37:B:GLU:CA	1:37:B:GLU:CB	1:37:B:GLU:CG	5	1.23
(1,250)	1:37:B:GLU:N	1:37:B:GLU:CA	1:37:B:GLU:CB	1:37:B:GLU:CG	12	1.23
(1,250)	1:37:B:GLU:N	1:37:B:GLU:CA	1:37:B:GLU:CB	1:37:B:GLU:CG	14	1.23
(1,249)	1:37:A:GLU:N	1:37:A:GLU:CA	1:37:A:GLU:CB	1:37:A:GLU:CG	18	1.23
(1,199)	1:26:B:GLY:N	1:26:B:GLY:CA	1:26:B:GLY:C	1:27:B:GLU:N	1	1.23
(1,79)	1:33:A:PRO:C	1:34:A:ALA:N	1:34:A:ALA:CA	1:34:A:ALA:C	9	1.23
(1,61)	1:22:A:ASN:C	1:23:A:LEU:N	1:23:A:LEU:CA	1:23:A:LEU:C	3	1.23
(1,265)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:CB	1:54:A:GLU:CG	7	1.22
(1,265)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:CB	1:54:A:GLU:CG	18	1.22
(1,257)	1:41:A:LEU:N	1:41:A:LEU:CA	1:41:A:LEU:CB	1:41:A:LEU:CG	9	1.22
(1,218)	1:49:B:LEU:N	1:49:B:LEU:CA	1:49:B:LEU:C	1:50:B:ASP:N	13	1.22
(1,195)	1:22:B:ASN:N	1:22:B:ASN:CA	1:22:B:ASN:C	1:23:B:LEU:N	15	1.22
(1,80)	1:33:B:PRO:C	1:34:B:ALA:N	1:34:B:ALA:CA	1:34:B:ALA:C	10	1.22
(1,79)	1:33:A:PRO:C	1:34:A:ALA:N	1:34:A:ALA:CA	1:34:A:ALA:C	7	1.22
(1,277)	1:61:A:PHE:N	1:61:A:PHE:CA	1:61:A:PHE:CB	1:61:A:PHE:CG	8	1.21
(1,218)	1:49:B:LEU:N	1:49:B:LEU:CA	1:49:B:LEU:C	1:50:B:ASP:N	6	1.21
(1,195)	1:22:B:ASN:N	1:22:B:ASN:CA	1:22:B:ASN:C	1:23:B:LEU:N	7	1.21
(1,113)	1:54:A:GLU:C	1:55:A:HIS:N	1:55:A:HIS:CA	1:55:A:HIS:C	9	1.21
(1,91)	1:39:A:SER:C	1:40:A:CYS:N	1:40:A:CYS:CA	1:40:A:CYS:C	18	1.21
(1,22)	1:47:B:LEU:CA	1:47:B:LEU:CB	1:47:B:LEU:CG	1:47:B:LEU:CD1	11	1.21
(1,266)	1:54:B:GLU:N	1:54:B:GLU:CA	1:54:B:GLU:CB	1:54:B:GLU:CG	7	1.2
(1,266)	1:54:B:GLU:N	1:54:B:GLU:CA	1:54:B:GLU:CB	1:54:B:GLU:CG	14	1.2
(1,266)	1:54:B:GLU:N	1:54:B:GLU:CA	1:54:B:GLU:CB	1:54:B:GLU:CG	15	1.2
(1,257)	1:41:A:LEU:N	1:41:A:LEU:CA	1:41:A:LEU:CB	1:41:A:LEU:CG	4	1.2
(1,250)	1:37:B:GLU:N	1:37:B:GLU:CA	1:37:B:GLU:CB	1:37:B:GLU:CG	9	1.2
(1,250)	1:37:B:GLU:N	1:37:B:GLU:CA	1:37:B:GLU:CB	1:37:B:GLU:CG	11	1.2
(1,250)	1:37:B:GLU:N	1:37:B:GLU:CA	1:37:B:GLU:CB	1:37:B:GLU:CG	15	1.2

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,249)	1:37:A:GLU:N	1:37:A:GLU:CA	1:37:A:GLU:CB	1:37:A:GLU:CG	17	1.2
(1,79)	1:33:A:PRO:C	1:34:A:ALA:N	1:34:A:ALA:CA	1:34:A:ALA:C	2	1.2
(1,79)	1:33:A:PRO:C	1:34:A:ALA:N	1:34:A:ALA:CA	1:34:A:ALA:C	5	1.2
(1,61)	1:22:A:ASN:C	1:23:A:LEU:N	1:23:A:LEU:CA	1:23:A:LEU:C	17	1.2
(1,266)	1:54:B:GLU:N	1:54:B:GLU:CA	1:54:B:GLU:CB	1:54:B:GLU:CG	4	1.19
(1,265)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:CB	1:54:A:GLU:CG	2	1.19
(1,249)	1:37:A:GLU:N	1:37:A:GLU:CA	1:37:A:GLU:CB	1:37:A:GLU:CG	2	1.19
(1,218)	1:49:B:LEU:N	1:49:B:LEU:CA	1:49:B:LEU:C	1:50:B:ASP:N	16	1.19
(1,214)	1:44:B:ASP:N	1:44:B:ASP:CA	1:44:B:ASP:C	1:45:B:GLN:N	16	1.19
(1,168)	1:49:A:LEU:N	1:49:A:LEU:CA	1:49:A:LEU:C	1:50:A:ASP:N	2	1.19
(1,149)	1:26:A:GLY:N	1:26:A:GLY:CA	1:26:A:GLY:C	1:27:A:GLU:N	8	1.19
(1,92)	1:39:B:SER:C	1:40:B:CYS:N	1:40:B:CYS:CA	1:40:B:CYS:C	11	1.19
(1,79)	1:33:A:PRO:C	1:34:A:ALA:N	1:34:A:ALA:CA	1:34:A:ALA:C	10	1.19
(1,265)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:CB	1:54:A:GLU:CG	4	1.18
(1,249)	1:37:A:GLU:N	1:37:A:GLU:CA	1:37:A:GLU:CB	1:37:A:GLU:CG	1	1.18
(1,249)	1:37:A:GLU:N	1:37:A:GLU:CA	1:37:A:GLU:CB	1:37:A:GLU:CG	5	1.18
(1,249)	1:37:A:GLU:N	1:37:A:GLU:CA	1:37:A:GLU:CB	1:37:A:GLU:CG	16	1.18
(1,164)	1:44:A:ASP:N	1:44:A:ASP:CA	1:44:A:ASP:C	1:45:A:GLN:N	3	1.18
(1,79)	1:33:A:PRO:C	1:34:A:ALA:N	1:34:A:ALA:CA	1:34:A:ALA:C	17	1.18
(1,21)	1:47:A:LEU:CA	1:47:A:LEU:CB	1:47:A:LEU:CG	1:47:A:LEU:CD1	6	1.18
(1,276)	1:59:B:LYS:N	1:59:B:LYS:CA	1:59:B:LYS:CB	1:59:B:LYS:CG	16	1.17
(1,265)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:CB	1:54:A:GLU:CG	8	1.17
(1,258)	1:41:B:LEU:N	1:41:B:LEU:CA	1:41:B:LEU:CB	1:41:B:LEU:CG	4	1.17
(1,257)	1:41:A:LEU:N	1:41:A:LEU:CA	1:41:A:LEU:CB	1:41:A:LEU:CG	8	1.17
(1,227)	1:60:B:HIS:N	1:60:B:HIS:CA	1:60:B:HIS:C	1:61:B:PHE:N	6	1.17
(1,168)	1:49:A:LEU:N	1:49:A:LEU:CA	1:49:A:LEU:C	1:50:A:ASP:N	18	1.17
(1,164)	1:44:A:ASP:N	1:44:A:ASP:CA	1:44:A:ASP:C	1:45:A:GLN:N	2	1.17
(1,149)	1:26:A:GLY:N	1:26:A:GLY:CA	1:26:A:GLY:C	1:27:A:GLU:N	18	1.17
(1,123)	1:60:A:HIS:C	1:61:A:PHE:N	1:61:A:PHE:CA	1:61:A:PHE:C	4	1.17
(1,80)	1:33:B:PRO:C	1:34:B:ALA:N	1:34:B:ALA:CA	1:34:B:ALA:C	8	1.17
(1,21)	1:47:A:LEU:CA	1:47:A:LEU:CB	1:47:A:LEU:CG	1:47:A:LEU:CD1	10	1.17
(1,21)	1:47:A:LEU:CA	1:47:A:LEU:CB	1:47:A:LEU:CG	1:47:A:LEU:CD1	13	1.17
(1,255)	1:40:A:CYS:N	1:40:A:CYS:CA	1:40:A:CYS:CB	1:40:A:CYS:SG	3	1.16
(1,80)	1:33:B:PRO:C	1:34:B:ALA:N	1:34:B:ALA:CA	1:34:B:ALA:C	13	1.16
(1,79)	1:33:A:PRO:C	1:34:A:ALA:N	1:34:A:ALA:CA	1:34:A:ALA:C	15	1.16
(1,54)	1:17:B:ALA:C	1:18:B:GLY:N	1:18:B:GLY:CA	1:18:B:GLY:C	18	1.16
(1,266)	1:54:B:GLU:N	1:54:B:GLU:CA	1:54:B:GLU:CB	1:54:B:GLU:CG	1	1.15
(1,266)	1:54:B:GLU:N	1:54:B:GLU:CA	1:54:B:GLU:CB	1:54:B:GLU:CG	2	1.15
(1,266)	1:54:B:GLU:N	1:54:B:GLU:CA	1:54:B:GLU:CB	1:54:B:GLU:CG	5	1.15
(1,266)	1:54:B:GLU:N	1:54:B:GLU:CA	1:54:B:GLU:CB	1:54:B:GLU:CG	11	1.15
(1,266)	1:54:B:GLU:N	1:54:B:GLU:CA	1:54:B:GLU:CB	1:54:B:GLU:CG	20	1.15
(1,258)	1:41:B:LEU:N	1:41:B:LEU:CA	1:41:B:LEU:CB	1:41:B:LEU:CG	7	1.15
(1,258)	1:41:B:LEU:N	1:41:B:LEU:CA	1:41:B:LEU:CB	1:41:B:LEU:CG	14	1.15
(1,257)	1:41:A:LEU:N	1:41:A:LEU:CA	1:41:A:LEU:CB	1:41:A:LEU:CG	17	1.15
(1,250)	1:37:B:GLU:N	1:37:B:GLU:CA	1:37:B:GLU:CB	1:37:B:GLU:CG	10	1.15
(1,218)	1:49:B:LEU:N	1:49:B:LEU:CA	1:49:B:LEU:C	1:50:B:ASP:N	2	1.15
(1,80)	1:33:B:PRO:C	1:34:B:ALA:N	1:34:B:ALA:CA	1:34:B:ALA:C	12	1.15
(1,62)	1:22:B:ASN:C	1:23:B:LEU:N	1:23:B:LEU:CA	1:23:B:LEU:C	16	1.15
(1,266)	1:54:B:GLU:N	1:54:B:GLU:CA	1:54:B:GLU:CB	1:54:B:GLU:CG	9	1.14
(1,265)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:CB	1:54:A:GLU:CG	20	1.14
(1,257)	1:41:A:LEU:N	1:41:A:LEU:CA	1:41:A:LEU:CB	1:41:A:LEU:CG	13	1.14

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,256)	1:40:B:CYS:N	1:40:B:CYS:CA	1:40:B:CYS:CB	1:40:B:CYS:SG	16	1.14
(1,168)	1:49:A:LEU:N	1:49:A:LEU:CA	1:49:A:LEU:C	1:50:A:ASP:N	16	1.14
(1,102)	1:45:B:GLN:C	1:46:B:ARG:N	1:46:B:ARG:CA	1:46:B:ARG:C	9	1.14
(1,79)	1:33:A:PRO:C	1:34:A:ALA:N	1:34:A:ALA:CA	1:34:A:ALA:C	13	1.14
(1,266)	1:54:B:GLU:N	1:54:B:GLU:CA	1:54:B:GLU:CB	1:54:B:GLU:CG	8	1.13
(1,266)	1:54:B:GLU:N	1:54:B:GLU:CA	1:54:B:GLU:CB	1:54:B:GLU:CG	12	1.13
(1,265)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:CB	1:54:A:GLU:CG	1	1.13
(1,265)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:CB	1:54:A:GLU:CG	13	1.13
(1,228)	1:61:B:PHE:N	1:61:B:PHE:CA	1:61:B:PHE:C	1:62:B:THR:N	20	1.13
(1,79)	1:33:A:PRO:C	1:34:A:ALA:N	1:34:A:ALA:CA	1:34:A:ALA:C	1	1.13
(1,54)	1:17:B:ALA:C	1:18:B:GLY:N	1:18:B:GLY:CA	1:18:B:GLY:C	2	1.13
(1,266)	1:54:B:GLU:N	1:54:B:GLU:CA	1:54:B:GLU:CB	1:54:B:GLU:CG	19	1.12
(1,265)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:CB	1:54:A:GLU:CG	9	1.12
(1,258)	1:41:B:LEU:N	1:41:B:LEU:CA	1:41:B:LEU:CB	1:41:B:LEU:CG	12	1.12
(1,258)	1:41:B:LEU:N	1:41:B:LEU:CA	1:41:B:LEU:CB	1:41:B:LEU:CG	20	1.12
(1,257)	1:41:A:LEU:N	1:41:A:LEU:CA	1:41:A:LEU:CB	1:41:A:LEU:CG	5	1.12
(1,250)	1:37:B:GLU:N	1:37:B:GLU:CA	1:37:B:GLU:CB	1:37:B:GLU:CG	16	1.12
(1,249)	1:37:A:GLU:N	1:37:A:GLU:CA	1:37:A:GLU:CB	1:37:A:GLU:CG	10	1.12
(1,227)	1:60:B:HIS:N	1:60:B:HIS:CA	1:60:B:HIS:C	1:61:B:PHE:N	14	1.12
(1,214)	1:44:B:ASP:N	1:44:B:ASP:CA	1:44:B:ASP:C	1:45:B:GLN:N	18	1.12
(1,143)	1:20:A:TYR:N	1:20:A:TYR:CA	1:20:A:TYR:C	1:21:A:HIS:N	11	1.12
(1,276)	1:59:B:LYS:N	1:59:B:LYS:CA	1:59:B:LYS:CB	1:59:B:LYS:CG	17	1.11
(1,266)	1:54:B:GLU:N	1:54:B:GLU:CA	1:54:B:GLU:CB	1:54:B:GLU:CG	13	1.11
(1,265)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:CB	1:54:A:GLU:CG	14	1.11
(1,265)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:CB	1:54:A:GLU:CG	17	1.11
(1,255)	1:40:A:CYS:N	1:40:A:CYS:CA	1:40:A:CYS:CB	1:40:A:CYS:SG	4	1.11
(1,214)	1:44:B:ASP:N	1:44:B:ASP:CA	1:44:B:ASP:C	1:45:B:GLN:N	4	1.11
(1,62)	1:22:B:ASN:C	1:23:B:LEU:N	1:23:B:LEU:CA	1:23:B:LEU:C	4	1.11
(1,266)	1:54:B:GLU:N	1:54:B:GLU:CA	1:54:B:GLU:CB	1:54:B:GLU:CG	17	1.1
(1,265)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:CB	1:54:A:GLU:CG	10	1.1
(1,258)	1:41:B:LEU:N	1:41:B:LEU:CA	1:41:B:LEU:CB	1:41:B:LEU:CG	2	1.1
(1,255)	1:40:A:CYS:N	1:40:A:CYS:CA	1:40:A:CYS:CB	1:40:A:CYS:SG	2	1.1
(1,218)	1:49:B:LEU:N	1:49:B:LEU:CA	1:49:B:LEU:C	1:50:B:ASP:N	17	1.1
(1,214)	1:44:B:ASP:N	1:44:B:ASP:CA	1:44:B:ASP:C	1:45:B:GLN:N	13	1.1
(1,113)	1:54:A:GLU:C	1:55:A:HIS:N	1:55:A:HIS:CA	1:55:A:HIS:C	4	1.1
(1,277)	1:61:A:PHE:N	1:61:A:PHE:CA	1:61:A:PHE:CB	1:61:A:PHE:CG	16	1.09
(1,256)	1:40:B:CYS:N	1:40:B:CYS:CA	1:40:B:CYS:CB	1:40:B:CYS:SG	5	1.09
(1,250)	1:37:B:GLU:N	1:37:B:GLU:CA	1:37:B:GLU:CB	1:37:B:GLU:CG	7	1.09
(1,218)	1:49:B:LEU:N	1:49:B:LEU:CA	1:49:B:LEU:C	1:50:B:ASP:N	5	1.09
(1,168)	1:49:A:LEU:N	1:49:A:LEU:CA	1:49:A:LEU:C	1:50:A:ASP:N	9	1.09
(1,91)	1:39:A:SER:C	1:40:A:CYS:N	1:40:A:CYS:CA	1:40:A:CYS:C	15	1.09
(1,80)	1:33:B:PRO:C	1:34:B:ALA:N	1:34:B:ALA:CA	1:34:B:ALA:C	9	1.09
(1,80)	1:33:B:PRO:C	1:34:B:ALA:N	1:34:B:ALA:CA	1:34:B:ALA:C	18	1.09
(1,22)	1:47:B:LEU:CA	1:47:B:LEU:CB	1:47:B:LEU:CG	1:47:B:LEU:CD1	8	1.09
(1,214)	1:44:B:ASP:N	1:44:B:ASP:CA	1:44:B:ASP:C	1:45:B:GLN:N	15	1.08
(1,79)	1:33:A:PRO:C	1:34:A:ALA:N	1:34:A:ALA:CA	1:34:A:ALA:C	3	1.08
(1,265)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:CB	1:54:A:GLU:CG	3	1.07
(1,258)	1:41:B:LEU:N	1:41:B:LEU:CA	1:41:B:LEU:CB	1:41:B:LEU:CG	11	1.07
(1,257)	1:41:A:LEU:N	1:41:A:LEU:CA	1:41:A:LEU:CB	1:41:A:LEU:CG	14	1.07
(1,255)	1:40:A:CYS:N	1:40:A:CYS:CA	1:40:A:CYS:CB	1:40:A:CYS:SG	5	1.07
(1,218)	1:49:B:LEU:N	1:49:B:LEU:CA	1:49:B:LEU:C	1:50:B:ASP:N	11	1.07

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,164)	1:44:A:ASP:N	1:44:A:ASP:CA	1:44:A:ASP:C	1:45:A:GLN:N	20	1.07
(1,113)	1:54:A:GLU:C	1:55:A:HIS:N	1:55:A:HIS:CA	1:55:A:HIS:C	2	1.07
(1,101)	1:45:A:GLN:C	1:46:A:ARG:N	1:46:A:ARG:CA	1:46:A:ARG:C	13	1.07
(1,79)	1:33:A:PRO:C	1:34:A:ALA:N	1:34:A:ALA:CA	1:34:A:ALA:C	18	1.07
(1,62)	1:22:B:ASN:C	1:23:B:LEU:N	1:23:B:LEU:CA	1:23:B:LEU:C	8	1.07
(1,21)	1:47:A:LEU:CA	1:47:A:LEU:CB	1:47:A:LEU:CG	1:47:A:LEU:CD1	18	1.07
(1,265)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:CB	1:54:A:GLU:CG	19	1.06
(1,257)	1:41:A:LEU:N	1:41:A:LEU:CA	1:41:A:LEU:CB	1:41:A:LEU:CG	19	1.06
(1,102)	1:45:B:GLN:C	1:46:B:ARG:N	1:46:B:ARG:CA	1:46:B:ARG:C	6	1.06
(1,92)	1:39:B:SER:C	1:40:B:CYS:N	1:40:B:CYS:CA	1:40:B:CYS:C	10	1.06
(1,80)	1:33:B:PRO:C	1:34:B:ALA:N	1:34:B:ALA:CA	1:34:B:ALA:C	20	1.06
(1,276)	1:59:B:LYS:N	1:59:B:LYS:CA	1:59:B:LYS:CB	1:59:B:LYS:CG	4	1.05
(1,266)	1:54:B:GLU:N	1:54:B:GLU:CA	1:54:B:GLU:CB	1:54:B:GLU:CG	10	1.05
(1,265)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:CB	1:54:A:GLU:CG	5	1.05
(1,257)	1:41:A:LEU:N	1:41:A:LEU:CA	1:41:A:LEU:CB	1:41:A:LEU:CG	12	1.05
(1,256)	1:40:B:CYS:N	1:40:B:CYS:CA	1:40:B:CYS:CB	1:40:B:CYS:SG	18	1.05
(1,195)	1:22:B:ASN:N	1:22:B:ASN:CA	1:22:B:ASN:C	1:23:B:LEU:N	1	1.05
(1,145)	1:22:A:ASN:N	1:22:A:ASN:CA	1:22:A:ASN:C	1:23:A:LEU:N	20	1.05
(1,80)	1:33:B:PRO:C	1:34:B:ALA:N	1:34:B:ALA:CA	1:34:B:ALA:C	2	1.05
(1,79)	1:33:A:PRO:C	1:34:A:ALA:N	1:34:A:ALA:CA	1:34:A:ALA:C	20	1.05
(1,266)	1:54:B:GLU:N	1:54:B:GLU:CA	1:54:B:GLU:CB	1:54:B:GLU:CG	3	1.04
(1,250)	1:37:B:GLU:N	1:37:B:GLU:CA	1:37:B:GLU:CB	1:37:B:GLU:CG	6	1.04
(1,195)	1:22:B:ASN:N	1:22:B:ASN:CA	1:22:B:ASN:C	1:23:B:LEU:N	17	1.04
(1,114)	1:54:B:GLU:C	1:55:B:HIS:N	1:55:B:HIS:CA	1:55:B:HIS:C	5	1.04
(1,102)	1:45:B:GLN:C	1:46:B:ARG:N	1:46:B:ARG:CA	1:46:B:ARG:C	11	1.04
(1,258)	1:41:B:LEU:N	1:41:B:LEU:CA	1:41:B:LEU:CB	1:41:B:LEU:CG	17	1.03
(1,256)	1:40:B:CYS:N	1:40:B:CYS:CA	1:40:B:CYS:CB	1:40:B:CYS:SG	2	1.03
(1,227)	1:60:B:HIS:N	1:60:B:HIS:CA	1:60:B:HIS:C	1:61:B:PHE:N	10	1.03
(1,199)	1:26:B:GLY:N	1:26:B:GLY:CA	1:26:B:GLY:C	1:27:B:GLU:N	12	1.03
(1,195)	1:22:B:ASN:N	1:22:B:ASN:CA	1:22:B:ASN:C	1:23:B:LEU:N	3	1.03
(1,143)	1:20:A:TYR:N	1:20:A:TYR:CA	1:20:A:TYR:C	1:21:A:HIS:N	7	1.03
(1,113)	1:54:A:GLU:C	1:55:A:HIS:N	1:55:A:HIS:CA	1:55:A:HIS:C	16	1.03
(1,79)	1:33:A:PRO:C	1:34:A:ALA:N	1:34:A:ALA:CA	1:34:A:ALA:C	14	1.03
(1,54)	1:17:B:ALA:C	1:18:B:GLY:N	1:18:B:GLY:CA	1:18:B:GLY:C	12	1.03
(1,275)	1:59:A:LYS:N	1:59:A:LYS:CA	1:59:A:LYS:CB	1:59:A:LYS:CG	20	1.02
(1,256)	1:40:B:CYS:N	1:40:B:CYS:CA	1:40:B:CYS:CB	1:40:B:CYS:SG	4	1.02
(1,80)	1:33:B:PRO:C	1:34:B:ALA:N	1:34:B:ALA:CA	1:34:B:ALA:C	17	1.02
(1,145)	1:22:A:ASN:N	1:22:A:ASN:CA	1:22:A:ASN:C	1:23:A:LEU:N	8	1.01
(1,114)	1:54:B:GLU:C	1:55:B:HIS:N	1:55:B:HIS:CA	1:55:B:HIS:C	16	1.01
(1,145)	1:22:A:ASN:N	1:22:A:ASN:CA	1:22:A:ASN:C	1:23:A:LEU:N	14	1.0