



# Full wwPDB NMR Structure Validation Report ⓘ

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PDB ID : 9DM3 / pdb\_00009dm3  
BMRB ID : 52600  
Title : De novo design of proteins that bind naphthalenediimides, powerful photooxidants with tunable photophysical properties  
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Deposited on : 2024-09-12

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4-5-2 with Phenix2.0  
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)  
wwPDB-RCI : v\_1n\_11\_5\_13\_A (Berjanski et al., 2005)  
PANAV : Wang et al. (2010)  
wwPDB-ShiftChecker : v1.2  
BMRB Restraints Analysis : v1.2  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.49

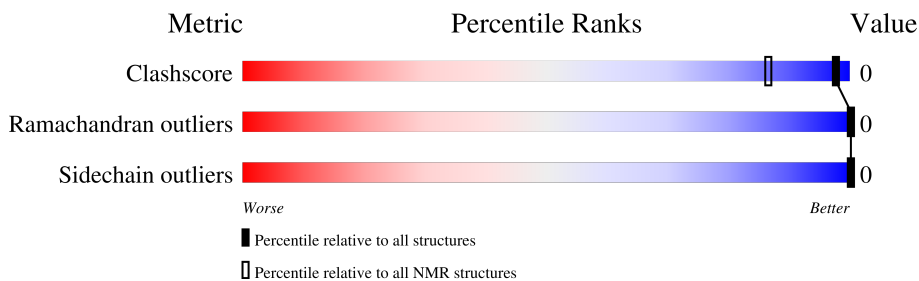
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*SOLUTION NMR*

The overall completeness of chemical shifts assignment is 87%.

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



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

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

Mol	Chain	Length	Quality of chain
1	A	132	

## 2 Ensemble composition and analysis

This entry contains 10 models. Model 7 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *lowest energy*.

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

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:12-A:132 (121)	0.64	7

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

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

The models can be grouped into 2 clusters. No single-model clusters were found.

Cluster number	Models
1	1, 3, 4, 5, 7, 9, 10
2	2, 6, 8

### 3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 2114 atoms, of which 1041 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called naphthalenediimide binding protein.

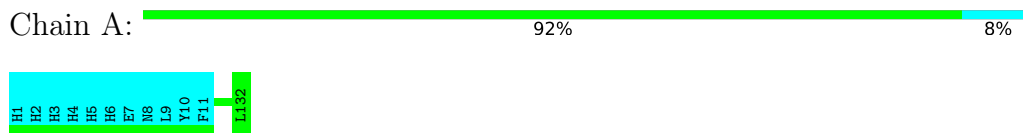
Mol	Chain	Residues	Atoms					Trace
			Total	C	H	N	O	
1	A	132	2114	666	1041	196	211	0

## 4 Residue-property plots

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

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

- Molecule 1: naphthalenediimide binding protein

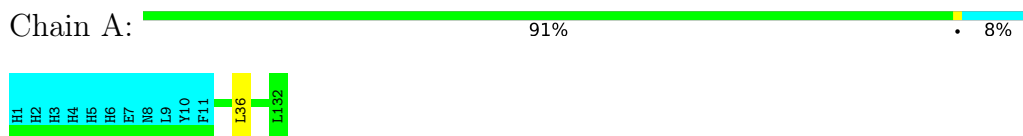


### 4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

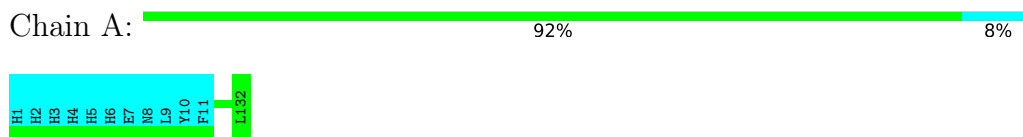
#### 4.2.1 Score per residue for model 1

- Molecule 1: naphthalenediimide binding protein



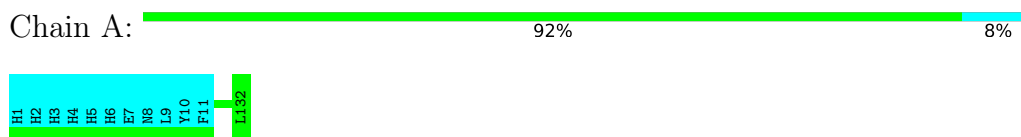
#### 4.2.2 Score per residue for model 2

- Molecule 1: naphthalenediimide binding protein



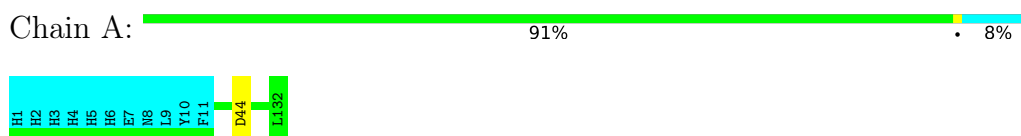
### 4.2.3 Score per residue for model 3

- Molecule 1: naphthalenediimide binding protein



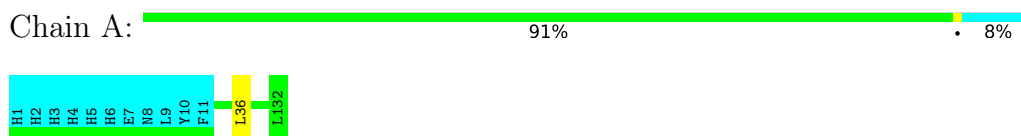
### 4.2.4 Score per residue for model 4

- Molecule 1: naphthalenediimide binding protein



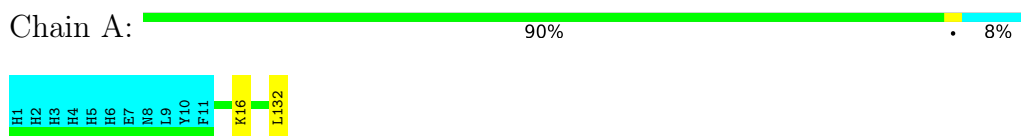
### 4.2.5 Score per residue for model 5

- Molecule 1: naphthalenediimide binding protein



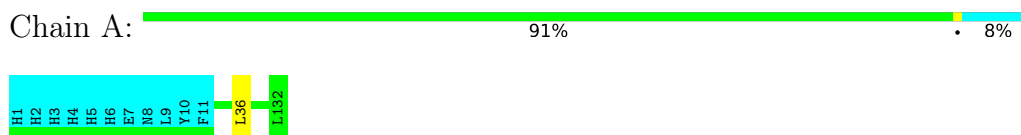
### 4.2.6 Score per residue for model 6

- Molecule 1: naphthalenediimide binding protein



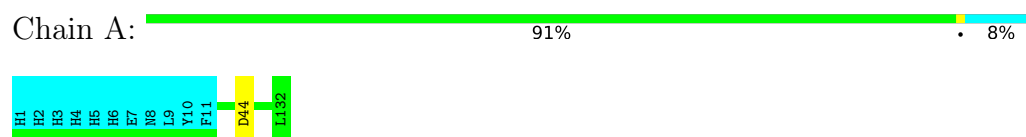
### 4.2.7 Score per residue for model 7 (medoid)

- Molecule 1: naphthalenediimide binding protein



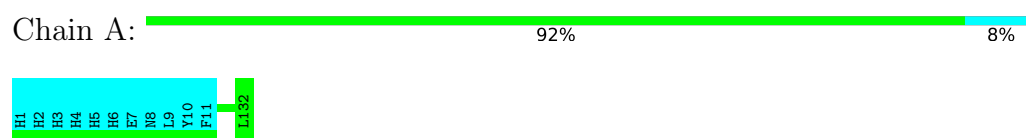
#### 4.2.8 Score per residue for model 8

- Molecule 1: naphthalenediimide binding protein



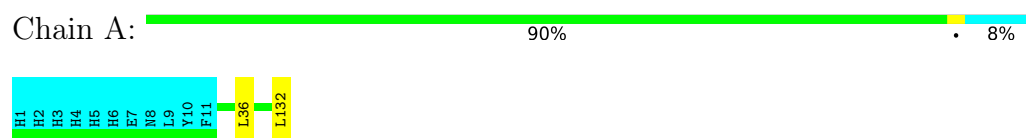
#### 4.2.9 Score per residue for model 9

- Molecule 1: naphthalenediimide binding protein



#### 4.2.10 Score per residue for model 10

- Molecule 1: naphthalenediimide binding protein



## 5 Refinement protocol and experimental data overview

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

Of the 10 calculated structures, 10 were deposited, based on the following criterion: *all calculated structures submitted*.

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

Software name	Classification	Version
CS-ROSETTA	structure calculation	

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

Chemical shift file(s)	working_cs.cif
Number of chemical shift lists	1
Total number of shifts	1599
Number of shifts mapped to atoms	1592
Number of unparsed shifts	0
Number of shifts with mapping errors	7
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	87%

## 6 Model quality [i](#)

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

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

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

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

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	965	962	962	1±1
All	All	9650	9620	9620	9

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 0.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:132:LEU:OXT	1:A:132:LEU:HD23	0.86	1.70	10	1
1:A:132:LEU:OXT	1:A:132:LEU:CD2	0.56	2.50	10	1
1:A:36:LEU:HD23	1:A:36:LEU:C	0.48	2.34	7	4
1:A:16:LYS:HE3	1:A:132:LEU:OXT	0.44	2.12	6	1
1:A:44:ASP:OD1	1:A:44:ASP:C	0.42	2.62	8	2

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

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	120/132 (91%)	120±0 (100±0%)	0±0 (0±0%)	0±0 (0±0%)	100	100
All	All	1200/1320 (91%)	1198 (100%)	2 (0%)	0 (0%)	100	100

There are no Ramachandran outliers.

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	105/116 (91%)	96±16 (92±16%)	0±0 (0±0%)	100	100
All	All	961/1160 (83%)	961 (100%)	0 (0%)	100	100

There are no protein residues with a non-rotameric sidechain to report.

### 6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

### 6.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

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

There are no ligands in this entry.

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

There are no such molecules in this entry.

## 6.8 Polymer linkage issues

There are no chain breaks in this entry.

## 7 Chemical shift validation (i)

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

### 7.1 Chemical shift list 1

File name: working\_cs.cif

Chemical shift list name: *assigned\_chemical\_shifts\_1*

#### 7.1.1 Bookkeeping (i)

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

Total number of shifts	1599
Number of shifts mapped to atoms	1592
Number of unparsed shifts	0
Number of shifts with mapping errors	7
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	0

The following assigned chemical shifts were not mapped to the molecules present in the coordinate file.

- No matching atom found in the structure. All 7 occurrences are reported below.

List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	A	1	HIS	H	8.507	0.010	1
1	A	1	HIS	HD1	7.724	0.010	1
1	A	2	HIS	HD1	7.656	0.010	1
1	A	3	HIS	HD1	7.179	0.010	1
1	A	4	HIS	HD1	7.668	0.010	1
1	A	5	HIS	HD1	8.173	0.010	1
1	A	6	HIS	HD1	8.173	0.010	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
$^{13}\text{C}_\alpha$	132	-0.72 $\pm$ 0.07	Should be checked

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Nucleus	# values	Correction $\pm$ precision, ppm	Suggested action
$^{13}\text{C}_\beta$	127	0.16 $\pm$ 0.06	None needed (< 0.5 ppm)
$^{13}\text{C}'$	0	—	None (insufficient data)
$^{15}\text{N}$	132	-0.55 $\pm$ 0.17	Should be applied

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

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 87%, i.e. 1456 atoms were assigned a chemical shift out of a possible 1683. 0 out of 22 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	$^1\text{H}$	$^{13}\text{C}$	$^{15}\text{N}$
Backbone	489/610 (80%)	247/247 (100%)	121/242 (50%)	121/121 (100%)
Sidechain	903/999 (90%)	617/641 (96%)	262/309 (85%)	24/49 (49%)
Aromatic	64/74 (86%)	37/37 (100%)	25/35 (71%)	2/2 (100%)
Overall	1456/1683 (87%)	901/925 (97%)	408/586 (70%)	147/172 (85%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 86%, i.e. 1599 atoms were assigned a chemical shift out of a possible 1850. 0 out of 23 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	$^1\text{H}$	$^{13}\text{C}$	$^{15}\text{N}$
Backbone	533/665 (80%)	269/269 (100%)	132/264 (50%)	132/132 (100%)
Sidechain	952/1050 (91%)	650/674 (96%)	277/326 (85%)	25/50 (50%)
Aromatic	114/135 (84%)	64/70 (91%)	42/57 (74%)	8/8 (100%)
Overall	1599/1850 (86%)	983/1013 (97%)	451/647 (70%)	165/190 (87%)

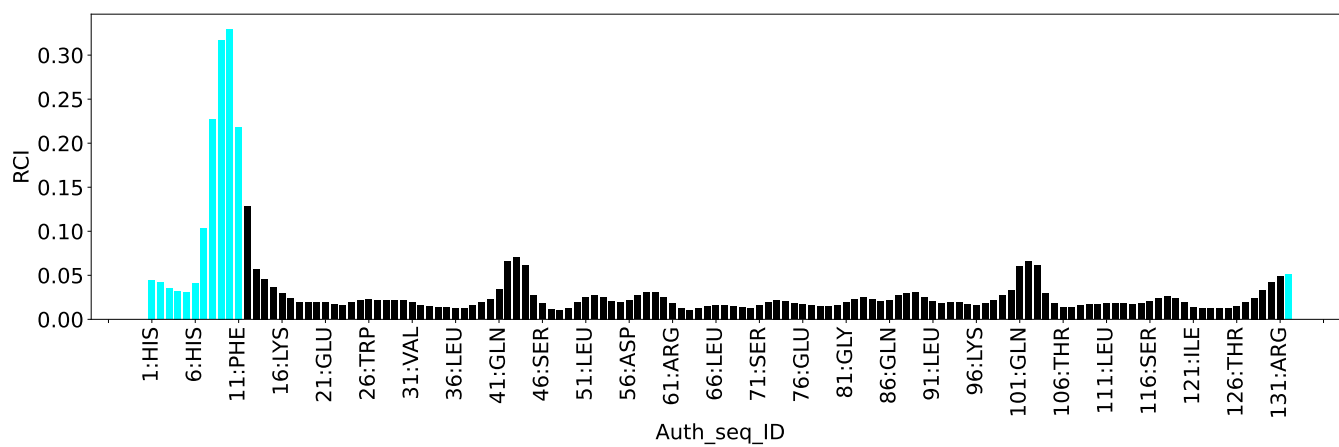
### 7.1.4 Statistically unusual chemical shifts [i](#)

There are no statistically unusual chemical shifts.

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

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

Random coil index (RCI) for chain A:



## 8 NMR restraints analysis

### 8.1 Conformationally restricting restraints

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

Description	Value
Total distance restraints	1117
Intra-residue ( $ i-j =0$ )	436
Sequential ( $ i-j =1$ )	340
Medium range ( $ i-j >1$ and $ i-j <5$ )	257
Long range ( $ i-j \geq 5$ )	84
Inter-chain	0
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	0
Number of restraints per residue	8.5
Number of long range restraints per residue <sup>1</sup>	0.6

<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)	19.7	0.2
0.2-0.5 (Medium)	32.5	0.5
>0.5 (Large)	57.2	4.76

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

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

## 9 Distance violation analysis

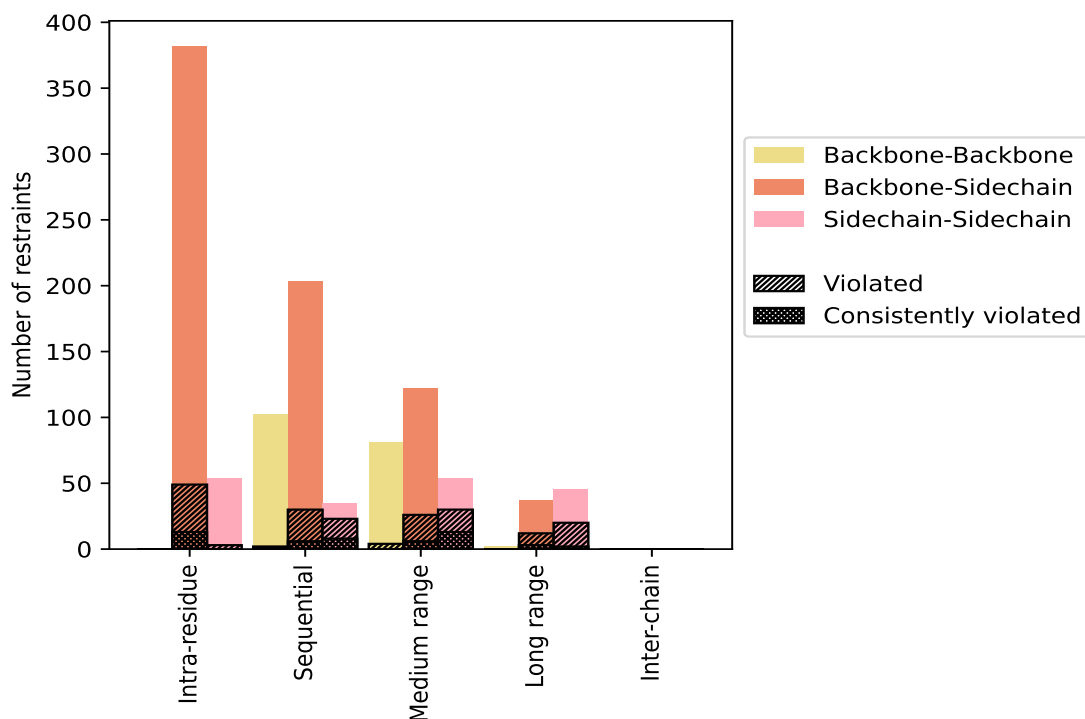
### 9.1 Summary of distance violations

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

Restrains type	Count	% <sup>1</sup>	Violated <sup>3</sup>			Consistently Violated <sup>4</sup>		
			Count	% <sup>2</sup>	% <sup>1</sup>	Count	% <sup>2</sup>	% <sup>1</sup>
<b>Intra-residue (<math> i-j =0</math>)</b>	<b>436</b>	<b>39.0</b>	<b>52</b>	<b>11.9</b>	<b>4.7</b>	<b>13</b>	<b>3.0</b>	<b>1.2</b>
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	382	34.2	49	12.8	4.4	13	3.4	1.2
Sidechain-Sidechain	54	4.8	3	5.6	0.3	0	0.0	0.0
<b>Sequential (<math> i-j =1</math>)</b>	<b>340</b>	<b>30.4</b>	<b>55</b>	<b>16.2</b>	<b>4.9</b>	<b>15</b>	<b>4.4</b>	<b>1.3</b>
Backbone-Backbone	102	9.1	2	2.0	0.2	1	1.0	0.1
Backbone-Sidechain	203	18.2	30	14.8	2.7	6	3.0	0.5
Sidechain-Sidechain	35	3.1	23	65.7	2.1	8	22.9	0.7
<b>Medium range (<math> i-j &gt;1</math> &amp; <math> i-j &lt;5</math>)</b>	<b>257</b>	<b>23.0</b>	<b>60</b>	<b>23.3</b>	<b>5.4</b>	<b>19</b>	<b>7.4</b>	<b>1.7</b>
Backbone-Backbone	81	7.3	4	4.9	0.4	0	0.0	0.0
Backbone-Sidechain	122	10.9	26	21.3	2.3	6	4.9	0.5
Sidechain-Sidechain	54	4.8	30	55.6	2.7	13	24.1	1.2
<b>Long range (<math> i-j \geq 5</math>)</b>	<b>84</b>	<b>7.5</b>	<b>32</b>	<b>38.1</b>	<b>2.9</b>	<b>5</b>	<b>6.0</b>	<b>0.4</b>
Backbone-Backbone	2	0.2	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	37	3.3	12	32.4	1.1	3	8.1	0.3
Sidechain-Sidechain	45	4.0	20	44.4	1.8	2	4.4	0.2
<b>Inter-chain</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>
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
<b>Hydrogen bond</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>
<b>Disulfide bond</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>
<b>Total</b>	<b>1117</b>	<b>100.0</b>	<b>199</b>	<b>17.8</b>	<b>17.8</b>	<b>52</b>	<b>4.7</b>	<b>4.7</b>
Backbone-Backbone	185	16.6	6	3.2	0.5	1	0.5	0.1
Backbone-Sidechain	744	66.6	117	15.7	10.5	28	3.8	2.5
Sidechain-Sidechain	188	16.8	76	40.4	6.8	23	12.2	2.1

<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

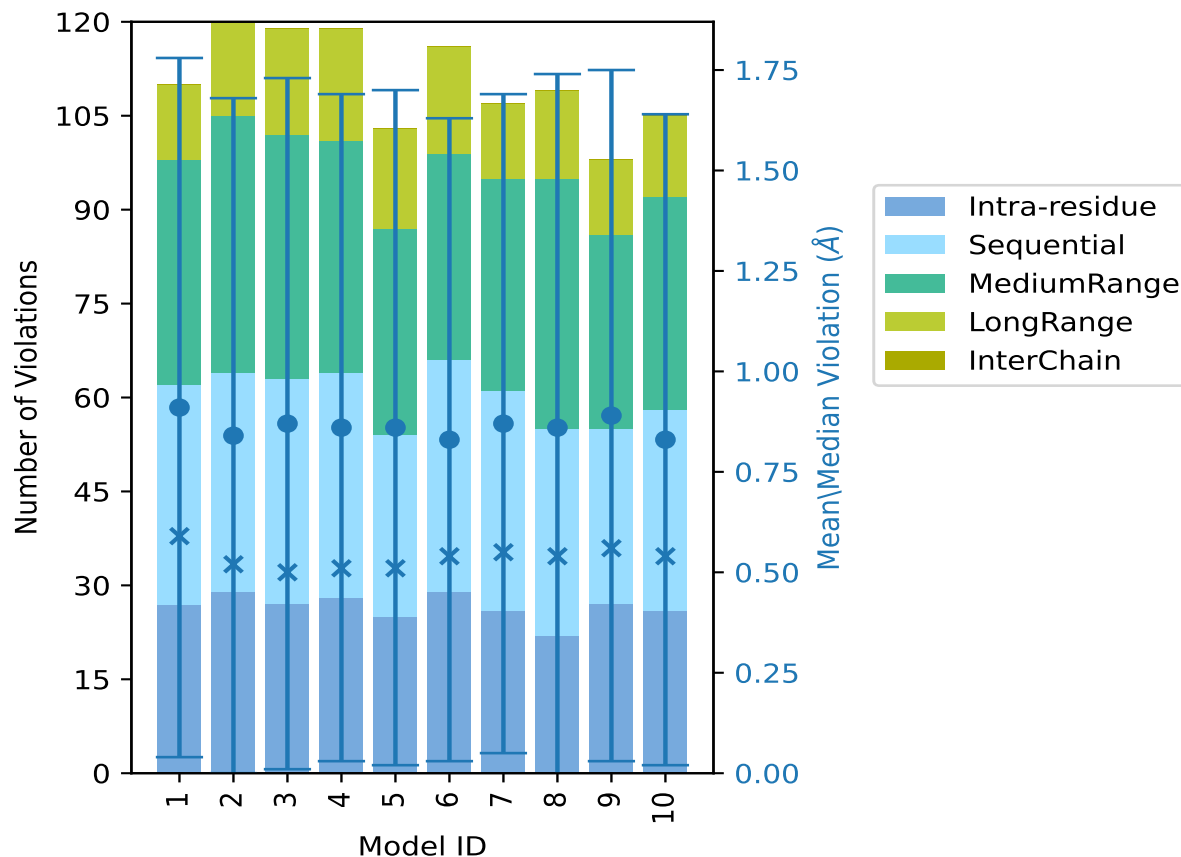
## 9.2 Distance violation statistics for each model [i](#)

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	27	35	36	12	0	110	0.91	3.94	0.87	0.59
2	29	35	41	15	0	120	0.84	4.54	0.84	0.52
3	27	36	39	17	0	119	0.87	4.67	0.86	0.5
4	28	36	37	18	0	119	0.86	3.8	0.83	0.51
5	25	29	33	16	0	103	0.86	3.74	0.84	0.51
6	29	37	33	17	0	116	0.83	3.66	0.8	0.54
7	26	35	34	12	0	107	0.87	3.6	0.82	0.55
8	22	33	40	14	0	109	0.86	4.76	0.88	0.54
9	27	28	31	12	0	98	0.89	3.88	0.86	0.56
10	26	32	34	13	0	105	0.83	3.93	0.81	0.54

<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 [i](#)

Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 918(IR:384, SQ:285, MR:197, LR:52, IC:0) restraints are not violated in the ensemble.

Number of violated restraints						Fraction of the ensemble	
IR <sup>1</sup>	SQ <sup>2</sup>	MR <sup>3</sup>	LR <sup>4</sup>	IC <sup>5</sup>	Total	Count <sup>6</sup>	%
19	12	13	6	0	50	1	10.0
3	4	7	7	0	21	2	20.0
3	1	2	5	0	11	3	30.0

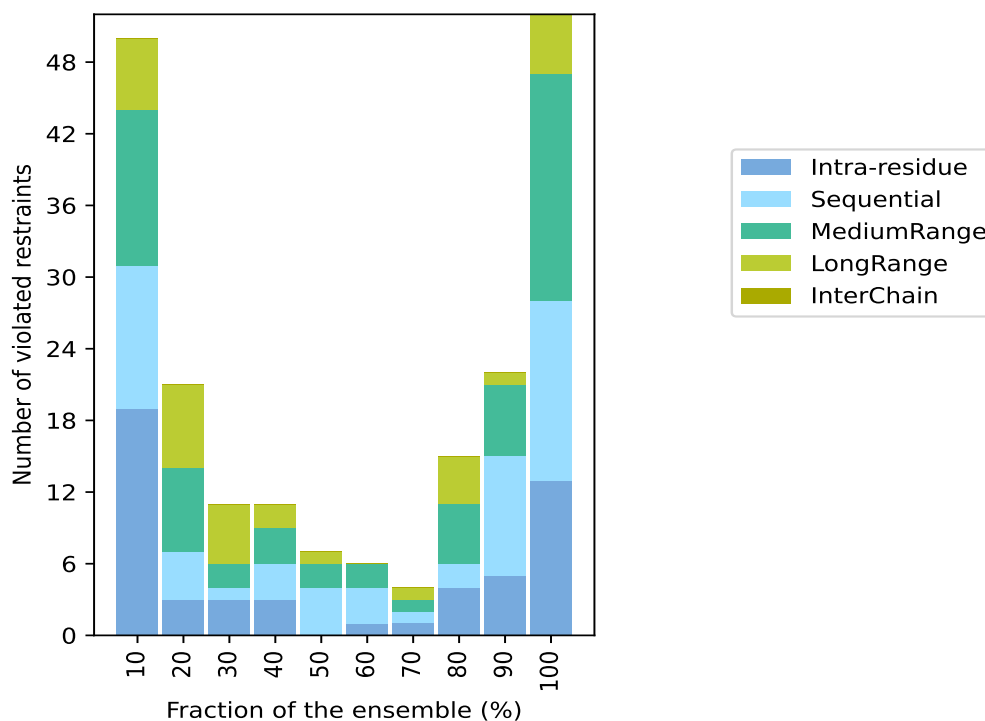
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Number of violated restraints						Fraction of the ensemble	
IR <sup>1</sup>	SQ <sup>2</sup>	MR <sup>3</sup>	LR <sup>4</sup>	IC <sup>5</sup>	Total	Count <sup>6</sup>	%
3	3	3	2	0	11	4	40.0
0	4	2	1	0	7	5	50.0
1	3	2	0	0	6	6	60.0
1	1	1	1	0	4	7	70.0
4	2	5	4	0	15	8	80.0
5	10	6	1	0	22	9	90.0
13	15	19	5	0	52	10	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](#)

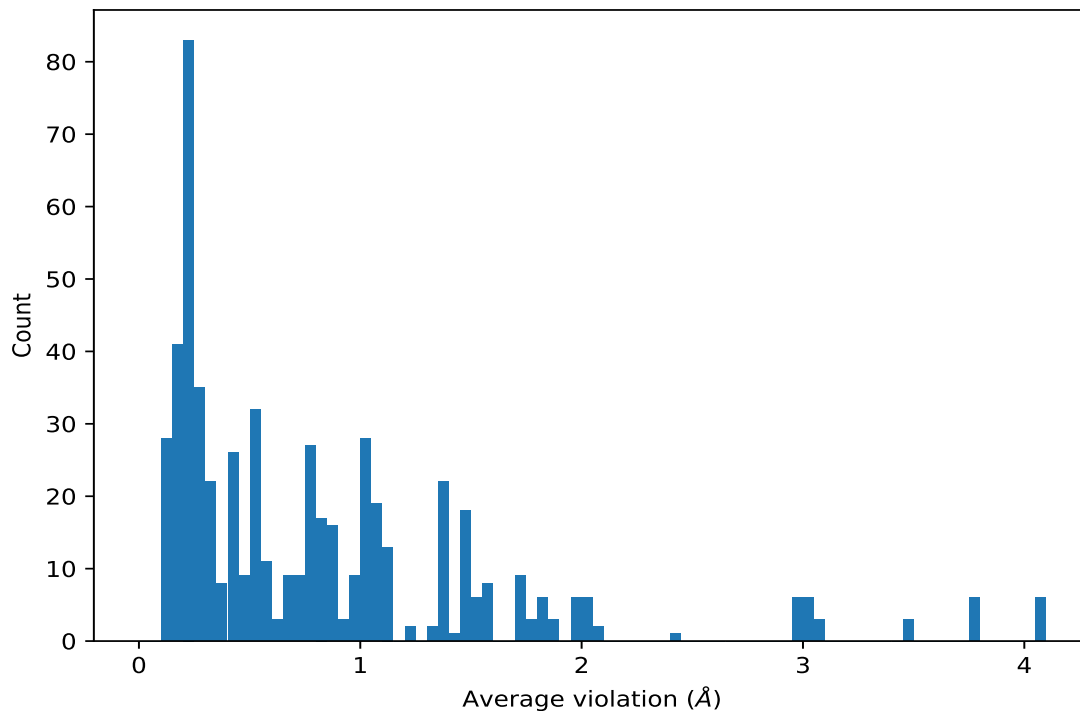


## 9.4 Most violated distance restraints in the ensemble [i](#)

### 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)
(1,187)	1:118:A:LEU:HD11	1:122:A:GLN:HE21	10	4.05	0.41	3.9
(1,187)	1:118:A:LEU:HD11	1:122:A:GLN:HE22	10	4.05	0.41	3.9
(1,187)	1:118:A:LEU:HD12	1:122:A:GLN:HE21	10	4.05	0.41	3.9
(1,187)	1:118:A:LEU:HD12	1:122:A:GLN:HE22	10	4.05	0.41	3.9
(1,187)	1:118:A:LEU:HD13	1:122:A:GLN:HE21	10	4.05	0.41	3.9
(1,187)	1:118:A:LEU:HD13	1:122:A:GLN:HE22	10	4.05	0.41	3.9
(1,165)	1:118:A:LEU:HD21	1:122:A:GLN:HE21	10	3.75	0.1	3.78
(1,165)	1:118:A:LEU:HD21	1:122:A:GLN:HE22	10	3.75	0.1	3.78
(1,165)	1:118:A:LEU:HD22	1:122:A:GLN:HE21	10	3.75	0.1	3.78
(1,165)	1:118:A:LEU:HD22	1:122:A:GLN:HE22	10	3.75	0.1	3.78
(1,165)	1:118:A:LEU:HD23	1:122:A:GLN:HE21	10	3.75	0.1	3.78
(1,165)	1:118:A:LEU:HD23	1:122:A:GLN:HE22	10	3.75	0.1	3.78
(1,619)	1:88:A:ASN:HD22	1:91:A:LEU:HD21	10	3.47	0.07	3.46
(1,619)	1:88:A:ASN:HD22	1:91:A:LEU:HD22	10	3.47	0.07	3.46
(1,619)	1:88:A:ASN:HD22	1:91:A:LEU:HD23	10	3.47	0.07	3.46

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,663)	1:88:A:ASN:HD21	1:91:A:LEU:HD21	10	3.09	0.08	3.08
(1,663)	1:88:A:ASN:HD21	1:91:A:LEU:HD22	10	3.09	0.08	3.08
(1,663)	1:88:A:ASN:HD21	1:91:A:LEU:HD23	10	3.09	0.08	3.08
(1,1014)	1:88:A:ASN:HD21	1:91:A:LEU:HD21	10	2.97	0.07	2.96
(1,1014)	1:88:A:ASN:HD21	1:91:A:LEU:HD22	10	2.97	0.07	2.96
(1,1014)	1:88:A:ASN:HD21	1:91:A:LEU:HD23	10	2.97	0.07	2.96
(1,1014)	1:88:A:ASN:HD22	1:91:A:LEU:HD21	10	2.97	0.07	2.96
(1,1014)	1:88:A:ASN:HD22	1:91:A:LEU:HD22	10	2.97	0.07	2.96
(1,1014)	1:88:A:ASN:HD22	1:91:A:LEU:HD23	10	2.97	0.07	2.96
(1,593)	1:115:A:GLN:H	1:115:A:GLN:HE21	10	2.44	0.15	2.4
(1,1011)	1:88:A:ASN:HB2	1:91:A:LEU:HD21	10	2.02	0.05	2.01
(1,1011)	1:88:A:ASN:HB2	1:91:A:LEU:HD22	10	2.02	0.05	2.01
(1,1011)	1:88:A:ASN:HB2	1:91:A:LEU:HD23	10	2.02	0.05	2.01
(1,1011)	1:88:A:ASN:HB3	1:91:A:LEU:HD21	10	2.02	0.05	2.01
(1,1011)	1:88:A:ASN:HB3	1:91:A:LEU:HD22	10	2.02	0.05	2.01
(1,1011)	1:88:A:ASN:HB3	1:91:A:LEU:HD23	10	2.02	0.05	2.01
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG11	10	1.97	0.49	1.85
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG12	10	1.97	0.49	1.85
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG13	10	1.97	0.49	1.85
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG21	10	1.97	0.49	1.85
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG22	10	1.97	0.49	1.85
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG23	10	1.97	0.49	1.85
(1,586)	1:88:A:ASN:H	1:91:A:LEU:HD21	10	1.87	0.04	1.87
(1,586)	1:88:A:ASN:H	1:91:A:LEU:HD22	10	1.87	0.04	1.87
(1,586)	1:88:A:ASN:H	1:91:A:LEU:HD23	10	1.87	0.04	1.87
(1,212)	1:128:A:ALA:HB1	1:129:A:GLN:HE21	10	1.81	0.57	1.78
(1,212)	1:128:A:ALA:HB1	1:129:A:GLN:HE22	10	1.81	0.57	1.78
(1,212)	1:128:A:ALA:HB2	1:129:A:GLN:HE21	10	1.81	0.57	1.78
(1,212)	1:128:A:ALA:HB2	1:129:A:GLN:HE22	10	1.81	0.57	1.78
(1,212)	1:128:A:ALA:HB3	1:129:A:GLN:HE21	10	1.81	0.57	1.78
(1,212)	1:128:A:ALA:HB3	1:129:A:GLN:HE22	10	1.81	0.57	1.78
(1,737)	1:33:A:TRP:HE1	1:37:A:VAL:HG11	10	1.76	0.75	1.78
(1,737)	1:33:A:TRP:HE1	1:37:A:VAL:HG12	10	1.76	0.75	1.78
(1,737)	1:33:A:TRP:HE1	1:37:A:VAL:HG13	10	1.76	0.75	1.78
(1,797)	1:13:A:SER:HB2	1:15:A:ALA:HB1	10	1.7	0.14	1.64
(1,797)	1:13:A:SER:HB2	1:15:A:ALA:HB2	10	1.7	0.14	1.64
(1,797)	1:13:A:SER:HB2	1:15:A:ALA:HB3	10	1.7	0.14	1.64
(1,797)	1:13:A:SER:HB3	1:15:A:ALA:HB1	10	1.7	0.14	1.64
(1,797)	1:13:A:SER:HB3	1:15:A:ALA:HB2	10	1.7	0.14	1.64
(1,797)	1:13:A:SER:HB3	1:15:A:ALA:HB3	10	1.7	0.14	1.64
(1,1022)	1:91:A:LEU:HG	1:92:A:PHE:HB2	10	1.59	0.03	1.59
(1,1022)	1:91:A:LEU:HG	1:92:A:PHE:HB3	10	1.59	0.03	1.59

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1067)	1:107:A:ALA:HB1	1:108:A:LYS:HG2	10	1.57	0.02	1.58
(1,1067)	1:107:A:ALA:HB1	1:108:A:LYS:HG3	10	1.57	0.02	1.58
(1,1067)	1:107:A:ALA:HB2	1:108:A:LYS:HG2	10	1.57	0.02	1.58
(1,1067)	1:107:A:ALA:HB2	1:108:A:LYS:HG3	10	1.57	0.02	1.58
(1,1067)	1:107:A:ALA:HB3	1:108:A:LYS:HG2	10	1.57	0.02	1.58
(1,1067)	1:107:A:ALA:HB3	1:108:A:LYS:HG3	10	1.57	0.02	1.58
(1,834)	1:24:A:LYS:HG2	1:25:A:LEU:HB2	10	1.53	0.33	1.63
(1,834)	1:24:A:LYS:HG2	1:25:A:LEU:HB3	10	1.53	0.33	1.63
(1,834)	1:24:A:LYS:HG3	1:25:A:LEU:HB2	10	1.53	0.33	1.63
(1,834)	1:24:A:LYS:HG3	1:25:A:LEU:HB3	10	1.53	0.33	1.63
(1,288)	1:91:A:LEU:HD11	1:92:A:PHE:HA	10	1.46	0.03	1.48
(1,288)	1:91:A:LEU:HD12	1:92:A:PHE:HA	10	1.46	0.03	1.48
(1,288)	1:91:A:LEU:HD13	1:92:A:PHE:HA	10	1.46	0.03	1.48
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD11	10	1.45	0.48	1.56
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD12	10	1.45	0.48	1.56
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD13	10	1.45	0.48	1.56
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD21	10	1.45	0.48	1.56
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD22	10	1.45	0.48	1.56
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD23	10	1.45	0.48	1.56
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD11	10	1.45	0.48	1.56
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD12	10	1.45	0.48	1.56
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD13	10	1.45	0.48	1.56
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD21	10	1.45	0.48	1.56
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD22	10	1.45	0.48	1.56
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD23	10	1.45	0.48	1.56
(1,213)	1:36:A:LEU:H	1:51:A:LEU:HG	10	1.42	0.12	1.48
(1,1111)	1:129:A:GLN:HB2	1:130:A:LYS:HD2	10	1.39	0.05	1.4
(1,1111)	1:129:A:GLN:HB2	1:130:A:LYS:HD3	10	1.39	0.05	1.4
(1,1111)	1:129:A:GLN:HB3	1:130:A:LYS:HD2	10	1.39	0.05	1.4
(1,1111)	1:129:A:GLN:HB3	1:130:A:LYS:HD3	10	1.39	0.05	1.4
(1,226)	1:46:A:SER:H	1:47:A:THR:HG21	10	1.38	0.09	1.36
(1,226)	1:46:A:SER:H	1:47:A:THR:HG22	10	1.38	0.09	1.36
(1,226)	1:46:A:SER:H	1:47:A:THR:HG23	10	1.38	0.09	1.36
(1,112)	1:124:A:ILE:HG21	1:127:A:GLU:HB3	10	1.37	0.37	1.46
(1,112)	1:124:A:ILE:HG22	1:127:A:GLU:HB3	10	1.37	0.37	1.46
(1,112)	1:124:A:ILE:HG23	1:127:A:GLU:HB3	10	1.37	0.37	1.46
(1,793)	1:6:A:HIS:HB2	1:7:A:GLU:HG2	10	1.05	0.81	0.72
(1,793)	1:6:A:HIS:HB2	1:7:A:GLU:HG3	10	1.05	0.81	0.72
(1,793)	1:6:A:HIS:HB3	1:7:A:GLU:HG2	10	1.05	0.81	0.72
(1,793)	1:6:A:HIS:HB3	1:7:A:GLU:HG3	10	1.05	0.81	0.72
(1,696)	1:129:A:GLN:H	1:129:A:GLN:HE21	10	1.01	0.34	0.98
(1,696)	1:129:A:GLN:H	1:129:A:GLN:HE22	10	1.01	0.34	0.98

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1023)	1:91:A:LEU:HD11	1:92:A:PHE:HB2	10	0.99	0.04	1.0
(1,1023)	1:91:A:LEU:HD11	1:92:A:PHE:HB3	10	0.99	0.04	1.0
(1,1023)	1:91:A:LEU:HD12	1:92:A:PHE:HB2	10	0.99	0.04	1.0
(1,1023)	1:91:A:LEU:HD12	1:92:A:PHE:HB3	10	0.99	0.04	1.0
(1,1023)	1:91:A:LEU:HD13	1:92:A:PHE:HB2	10	0.99	0.04	1.0
(1,1023)	1:91:A:LEU:HD13	1:92:A:PHE:HB3	10	0.99	0.04	1.0
(1,1020)	1:90:A:GLN:HA	1:90:A:GLN:HE21	10	0.94	0.01	0.94
(1,1020)	1:90:A:GLN:HA	1:90:A:GLN:HE22	10	0.94	0.01	0.94
(1,782)	1:115:A:GLN:H	1:115:A:GLN:HE22	10	0.94	0.18	0.92
(1,1065)	1:105:A:ASP:HA	1:108:A:LYS:HG2	10	0.89	0.07	0.92
(1,1065)	1:105:A:ASP:HA	1:108:A:LYS:HG3	10	0.89	0.07	0.92
(1,96)	1:36:A:LEU:HA	1:51:A:LEU:HG	10	0.87	0.27	0.71
(1,220)	1:95:A:LEU:HG	1:110:A:VAL:HG21	10	0.82	0.75	0.46
(1,220)	1:95:A:LEU:HG	1:110:A:VAL:HG22	10	0.82	0.75	0.46
(1,220)	1:95:A:LEU:HG	1:110:A:VAL:HG23	10	0.82	0.75	0.46
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD11	10	0.78	0.12	0.75
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD12	10	0.78	0.12	0.75
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD13	10	0.78	0.12	0.75
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD21	10	0.78	0.12	0.75
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD22	10	0.78	0.12	0.75
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD23	10	0.78	0.12	0.75
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD11	10	0.78	0.12	0.75
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD12	10	0.78	0.12	0.75
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD13	10	0.78	0.12	0.75
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD21	10	0.78	0.12	0.75
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD22	10	0.78	0.12	0.75
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD23	10	0.78	0.12	0.75
(1,780)	1:36:A:LEU:H	1:37:A:VAL:HG11	10	0.77	0.02	0.77
(1,780)	1:36:A:LEU:H	1:37:A:VAL:HG12	10	0.77	0.02	0.77
(1,780)	1:36:A:LEU:H	1:37:A:VAL:HG13	10	0.77	0.02	0.77
(1,343)	1:108:A:LYS:H	1:108:A:LYS:HG2	10	0.62	0.01	0.62
(1,307)	1:108:A:LYS:H	1:108:A:LYS:HG3	10	0.59	0.01	0.59
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD11	10	0.59	0.35	0.49
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD12	10	0.59	0.35	0.49
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD13	10	0.59	0.35	0.49
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD21	10	0.59	0.35	0.49
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD22	10	0.59	0.35	0.49
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD23	10	0.59	0.35	0.49
(1,720)	1:98:A:LEU:HB2	1:103:A:ASP:H	10	0.58	0.08	0.6
(1,620)	1:88:A:ASN:HD22	1:91:A:LEU:HD11	10	0.53	0.09	0.52
(1,620)	1:88:A:ASN:HD22	1:91:A:LEU:HD12	10	0.53	0.09	0.52
(1,620)	1:88:A:ASN:HD22	1:91:A:LEU:HD13	10	0.53	0.09	0.52

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1113)	1:130:A:LYS:HA	1:130:A:LYS:HD2	10	0.44	0.02	0.45
(1,1113)	1:130:A:LYS:HA	1:130:A:LYS:HD3	10	0.44	0.02	0.45
(1,1056)	1:99:A:PHE:H	1:103:A:ASP:HB2	10	0.44	0.08	0.44
(1,1056)	1:99:A:PHE:H	1:103:A:ASP:HB3	10	0.44	0.08	0.44
(1,1087)	1:115:A:GLN:H	1:115:A:GLN:HG2	10	0.39	0.02	0.4
(1,1087)	1:115:A:GLN:H	1:115:A:GLN:HG3	10	0.39	0.02	0.4
(1,199)	1:35:A:ARG:HA	1:35:A:ARG:HE	10	0.33	0.08	0.38
(1,545)	1:123:A:GLN:H	1:124:A:ILE:HD11	10	0.32	0.15	0.22
(1,545)	1:123:A:GLN:H	1:124:A:ILE:HD12	10	0.32	0.15	0.22
(1,545)	1:123:A:GLN:H	1:124:A:ILE:HD13	10	0.32	0.15	0.22
(1,1013)	1:88:A:ASN:HD21	1:91:A:LEU:HD11	10	0.32	0.08	0.3
(1,1013)	1:88:A:ASN:HD21	1:91:A:LEU:HD12	10	0.32	0.08	0.3
(1,1013)	1:88:A:ASN:HD21	1:91:A:LEU:HD13	10	0.32	0.08	0.3
(1,1013)	1:88:A:ASN:HD22	1:91:A:LEU:HD11	10	0.32	0.08	0.3
(1,1013)	1:88:A:ASN:HD22	1:91:A:LEU:HD12	10	0.32	0.08	0.3
(1,1013)	1:88:A:ASN:HD22	1:91:A:LEU:HD13	10	0.32	0.08	0.3
(1,270)	1:29:A:ASN:HA	1:32:A:LEU:HD21	10	0.27	0.1	0.26
(1,270)	1:29:A:ASN:HA	1:32:A:LEU:HD22	10	0.27	0.1	0.26
(1,270)	1:29:A:ASN:HA	1:32:A:LEU:HD23	10	0.27	0.1	0.26
(1,632)	1:103:A:ASP:H	1:104:A:GLU:H	10	0.24	0.04	0.22
(1,278)	1:53:A:LYS:HA	1:53:A:LYS:HE2	10	0.22	0.04	0.2
(1,278)	1:53:A:LYS:HA	1:53:A:LYS:HE3	10	0.22	0.04	0.2
(1,967)	1:64:A:GLN:HA	1:64:A:GLN:HE21	10	0.21	0.01	0.2
(1,967)	1:64:A:GLN:HA	1:64:A:GLN:HE22	10	0.21	0.01	0.2
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG11	10	0.2	0.02	0.2
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG12	10	0.2	0.02	0.2
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG13	10	0.2	0.02	0.2
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG21	10	0.2	0.02	0.2
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG22	10	0.2	0.02	0.2
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG23	10	0.2	0.02	0.2
(1,1010)	1:87:A:ARG:HD2	1:91:A:LEU:HD21	10	0.2	0.09	0.18
(1,1010)	1:87:A:ARG:HD2	1:91:A:LEU:HD22	10	0.2	0.09	0.18
(1,1010)	1:87:A:ARG:HD2	1:91:A:LEU:HD23	10	0.2	0.09	0.18
(1,1010)	1:87:A:ARG:HD3	1:91:A:LEU:HD21	10	0.2	0.09	0.18
(1,1010)	1:87:A:ARG:HD3	1:91:A:LEU:HD22	10	0.2	0.09	0.18
(1,1010)	1:87:A:ARG:HD3	1:91:A:LEU:HD23	10	0.2	0.09	0.18
(1,531)	1:109:A:ALA:H	1:110:A:VAL:HG21	10	0.18	0.02	0.18
(1,531)	1:109:A:ALA:H	1:110:A:VAL:HG22	10	0.18	0.02	0.18
(1,531)	1:109:A:ALA:H	1:110:A:VAL:HG23	10	0.18	0.02	0.18
(1,18)	1:126:A:THR:HB	1:127:A:GLU:HA	10	0.14	0.02	0.13
(1,174)	1:108:A:LYS:H	1:108:A:LYS:HD2	10	0.12	0.0	0.12
(1,174)	1:108:A:LYS:H	1:108:A:LYS:HD3	10	0.12	0.0	0.12

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,955)	1:54:A:GLN:HG2	1:55:A:LEU:HA	9	2.07	0.02	2.07
(1,955)	1:54:A:GLN:HG3	1:55:A:LEU:HA	9	2.07	0.02	2.07
(1,279)	1:62:A:VAL:H	1:63:A:GLU:HG2	9	1.54	0.02	1.55
(1,279)	1:62:A:VAL:H	1:63:A:GLU:HG3	9	1.54	0.02	1.55
(1,833)	1:24:A:LYS:HG2	1:25:A:LEU:HA	9	1.24	0.02	1.25
(1,833)	1:24:A:LYS:HG3	1:25:A:LEU:HA	9	1.24	0.02	1.25
(1,625)	1:126:A:THR:H	1:127:A:GLU:HB3	9	0.87	0.03	0.88
(1,1030)	1:93:A:SER:HB2	1:94:A:GLN:HA	9	0.66	0.03	0.67
(1,1030)	1:93:A:SER:HB3	1:94:A:GLN:HA	9	0.66	0.03	0.67
(1,987)	1:76:A:GLU:HA	1:79:A:ARG:HD2	9	0.57	0.46	0.46
(1,987)	1:76:A:GLU:HA	1:79:A:ARG:HD3	9	0.57	0.46	0.46
(1,1035)	1:94:A:GLN:HE21	1:110:A:VAL:HG11	9	0.53	0.22	0.64
(1,1035)	1:94:A:GLN:HE21	1:110:A:VAL:HG12	9	0.53	0.22	0.64
(1,1035)	1:94:A:GLN:HE21	1:110:A:VAL:HG13	9	0.53	0.22	0.64
(1,1035)	1:94:A:GLN:HE22	1:110:A:VAL:HG11	9	0.53	0.22	0.64
(1,1035)	1:94:A:GLN:HE22	1:110:A:VAL:HG12	9	0.53	0.22	0.64
(1,1035)	1:94:A:GLN:HE22	1:110:A:VAL:HG13	9	0.53	0.22	0.64
(1,155)	1:67:A:GLN:HG2	1:68:A:ARG:H	9	0.51	0.01	0.51
(1,155)	1:67:A:GLN:HG3	1:68:A:ARG:H	9	0.51	0.01	0.51
(1,238)	1:54:A:GLN:HG2	1:55:A:LEU:H	9	0.49	0.1	0.52
(1,281)	1:120:A:GLN:HG2	1:121:A:ILE:HD11	9	0.49	0.13	0.55
(1,281)	1:120:A:GLN:HG2	1:121:A:ILE:HD12	9	0.49	0.13	0.55
(1,281)	1:120:A:GLN:HG2	1:121:A:ILE:HD13	9	0.49	0.13	0.55
(1,281)	1:120:A:GLN:HG3	1:121:A:ILE:HD11	9	0.49	0.13	0.55
(1,281)	1:120:A:GLN:HG3	1:121:A:ILE:HD12	9	0.49	0.13	0.55
(1,281)	1:120:A:GLN:HG3	1:121:A:ILE:HD13	9	0.49	0.13	0.55
(1,835)	1:24:A:LYS:HG2	1:26:A:TRP:H	9	0.44	0.02	0.44
(1,835)	1:24:A:LYS:HG3	1:26:A:TRP:H	9	0.44	0.02	0.44
(1,479)	1:127:A:GLU:H	1:127:A:GLU:HB3	9	0.4	0.01	0.4
(1,763)	1:67:A:GLN:HG2	1:69:A:ILE:H	9	0.4	0.01	0.4
(1,763)	1:67:A:GLN:HG3	1:69:A:ILE:H	9	0.4	0.01	0.4
(1,954)	1:54:A:GLN:HG2	1:55:A:LEU:H	9	0.36	0.03	0.37
(1,954)	1:54:A:GLN:HG3	1:55:A:LEU:H	9	0.36	0.03	0.37
(1,798)	1:13:A:SER:HB2	1:16:A:LYS:H	9	0.34	0.25	0.23
(1,798)	1:13:A:SER:HB3	1:16:A:LYS:H	9	0.34	0.25	0.23
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD11	9	0.27	0.23	0.21
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD12	9	0.27	0.23	0.21
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD13	9	0.27	0.23	0.21
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD21	9	0.27	0.23	0.21
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD22	9	0.27	0.23	0.21
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD23	9	0.27	0.23	0.21
(1,952)	1:54:A:GLN:HB2	1:54:A:GLN:HE21	9	0.27	0.11	0.24

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,952)	1:54:A:GLN:HB2	1:54:A:GLN:HE22	9	0.27	0.11	0.24
(1,952)	1:54:A:GLN:HB3	1:54:A:GLN:HE21	9	0.27	0.11	0.24
(1,952)	1:54:A:GLN:HB3	1:54:A:GLN:HE22	9	0.27	0.11	0.24
(1,49)	1:124:A:ILE:HG21	1:128:A:ALA:HA	9	0.25	0.06	0.23
(1,49)	1:124:A:ILE:HG22	1:128:A:ALA:HA	9	0.25	0.06	0.23
(1,49)	1:124:A:ILE:HG23	1:128:A:ALA:HA	9	0.25	0.06	0.23
(1,796)	1:12:A:GLN:HB2	1:12:A:GLN:HE21	9	0.22	0.04	0.21
(1,796)	1:12:A:GLN:HB2	1:12:A:GLN:HE22	9	0.22	0.04	0.21
(1,796)	1:12:A:GLN:HB3	1:12:A:GLN:HE21	9	0.22	0.04	0.21
(1,796)	1:12:A:GLN:HB3	1:12:A:GLN:HE22	9	0.22	0.04	0.21
(1,118)	1:21:A:GLU:HA	1:21:A:GLU:HG3	9	0.14	0.0	0.14
(1,832)	1:24:A:LYS:HG2	1:25:A:LEU:H	9	0.13	0.02	0.14
(1,832)	1:24:A:LYS:HG3	1:25:A:LEU:H	9	0.13	0.02	0.14
(1,452)	1:63:A:GLU:H	1:63:A:GLU:HG2	9	0.1	0.0	0.1
(1,452)	1:63:A:GLU:H	1:63:A:GLU:HG3	9	0.1	0.0	0.1
(1,252)	1:125:A:ILE:HD11	1:129:A:GLN:HE21	8	3.0	0.38	3.07
(1,252)	1:125:A:ILE:HD11	1:129:A:GLN:HE22	8	3.0	0.38	3.07
(1,252)	1:125:A:ILE:HD12	1:129:A:GLN:HE21	8	3.0	0.38	3.07
(1,252)	1:125:A:ILE:HD12	1:129:A:GLN:HE22	8	3.0	0.38	3.07
(1,252)	1:125:A:ILE:HD13	1:129:A:GLN:HE21	8	3.0	0.38	3.07
(1,252)	1:125:A:ILE:HD13	1:129:A:GLN:HE22	8	3.0	0.38	3.07
(1,261)	1:124:A:ILE:HD11	1:127:A:GLU:HB3	8	1.72	0.87	2.24
(1,261)	1:124:A:ILE:HD12	1:127:A:GLU:HB3	8	1.72	0.87	2.24
(1,261)	1:124:A:ILE:HD13	1:127:A:GLU:HB3	8	1.72	0.87	2.24
(1,1064)	1:104:A:GLU:HG2	1:105:A:ASP:HA	8	1.32	0.03	1.34
(1,1064)	1:104:A:GLU:HG3	1:105:A:ASP:HA	8	1.32	0.03	1.34
(1,1039)	1:95:A:LEU:HB2	1:110:A:VAL:HG21	8	1.14	0.07	1.12
(1,1039)	1:95:A:LEU:HB2	1:110:A:VAL:HG22	8	1.14	0.07	1.12
(1,1039)	1:95:A:LEU:HB2	1:110:A:VAL:HG23	8	1.14	0.07	1.12
(1,1039)	1:95:A:LEU:HB3	1:110:A:VAL:HG21	8	1.14	0.07	1.12
(1,1039)	1:95:A:LEU:HB3	1:110:A:VAL:HG22	8	1.14	0.07	1.12
(1,1039)	1:95:A:LEU:HB3	1:110:A:VAL:HG23	8	1.14	0.07	1.12
(1,251)	1:125:A:ILE:HG21	1:129:A:GLN:HE21	8	1.07	0.33	1.14
(1,251)	1:125:A:ILE:HG21	1:129:A:GLN:HE22	8	1.07	0.33	1.14
(1,251)	1:125:A:ILE:HG22	1:129:A:GLN:HE21	8	1.07	0.33	1.14
(1,251)	1:125:A:ILE:HG22	1:129:A:GLN:HE22	8	1.07	0.33	1.14
(1,251)	1:125:A:ILE:HG23	1:129:A:GLN:HE21	8	1.07	0.33	1.14
(1,251)	1:125:A:ILE:HG23	1:129:A:GLN:HE22	8	1.07	0.33	1.14
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD11	8	1.04	0.36	1.19
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD12	8	1.04	0.36	1.19
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD13	8	1.04	0.36	1.19
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD21	8	1.04	0.36	1.19

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD22	8	1.04	0.36	1.19
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD23	8	1.04	0.36	1.19
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD11	8	1.04	0.36	1.19
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD12	8	1.04	0.36	1.19
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD13	8	1.04	0.36	1.19
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD21	8	1.04	0.36	1.19
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD22	8	1.04	0.36	1.19
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD23	8	1.04	0.36	1.19
(1,59)	1:95:A:LEU:HD11	1:107:A:ALA:HB1	8	0.52	0.11	0.53
(1,59)	1:95:A:LEU:HD11	1:107:A:ALA:HB2	8	0.52	0.11	0.53
(1,59)	1:95:A:LEU:HD11	1:107:A:ALA:HB3	8	0.52	0.11	0.53
(1,59)	1:95:A:LEU:HD12	1:107:A:ALA:HB1	8	0.52	0.11	0.53
(1,59)	1:95:A:LEU:HD12	1:107:A:ALA:HB2	8	0.52	0.11	0.53
(1,59)	1:95:A:LEU:HD12	1:107:A:ALA:HB3	8	0.52	0.11	0.53
(1,59)	1:95:A:LEU:HD13	1:107:A:ALA:HB1	8	0.52	0.11	0.53
(1,59)	1:95:A:LEU:HD13	1:107:A:ALA:HB2	8	0.52	0.11	0.53
(1,59)	1:95:A:LEU:HD13	1:107:A:ALA:HB3	8	0.52	0.11	0.53
(1,1063)	1:104:A:GLU:HG2	1:105:A:ASP:H	8	0.48	0.02	0.49
(1,1063)	1:104:A:GLU:HG3	1:105:A:ASP:H	8	0.48	0.02	0.49
(1,48)	1:35:A:ARG:HA	1:35:A:ARG:HD2	8	0.43	0.0	0.43
(1,100)	1:79:A:ARG:HA	1:79:A:ARG:HE	8	0.37	0.03	0.38
(1,604)	1:39:A:ALA:H	1:47:A:THR:HG21	8	0.35	0.19	0.3
(1,604)	1:39:A:ALA:H	1:47:A:THR:HG22	8	0.35	0.19	0.3
(1,604)	1:39:A:ALA:H	1:47:A:THR:HG23	8	0.35	0.19	0.3
(1,537)	1:129:A:GLN:H	1:129:A:GLN:HG2	8	0.31	0.03	0.32
(1,537)	1:129:A:GLN:H	1:129:A:GLN:HG3	8	0.31	0.03	0.32
(1,54)	1:95:A:LEU:HD11	1:107:A:ALA:HA	8	0.3	0.14	0.27
(1,54)	1:95:A:LEU:HD12	1:107:A:ALA:HA	8	0.3	0.14	0.27
(1,54)	1:95:A:LEU:HD13	1:107:A:ALA:HA	8	0.3	0.14	0.27
(1,82)	1:124:A:ILE:HA	1:127:A:GLU:HB3	8	0.28	0.16	0.24
(1,169)	1:35:A:ARG:HA	1:35:A:ARG:HD3	8	0.17	0.02	0.16
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG11	7	0.53	0.33	0.61
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG12	7	0.53	0.33	0.61
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG13	7	0.53	0.33	0.61
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG21	7	0.53	0.33	0.61
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG22	7	0.53	0.33	0.61
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG23	7	0.53	0.33	0.61
(1,991)	1:79:A:ARG:H	1:79:A:ARG:HD2	7	0.33	0.09	0.36
(1,991)	1:79:A:ARG:H	1:79:A:ARG:HD3	7	0.33	0.09	0.36
(1,221)	1:39:A:ALA:HA	1:47:A:THR:HG21	7	0.28	0.05	0.28
(1,221)	1:39:A:ALA:HA	1:47:A:THR:HG22	7	0.28	0.05	0.28
(1,221)	1:39:A:ALA:HA	1:47:A:THR:HG23	7	0.28	0.05	0.28

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,582)	1:91:A:LEU:HG	1:92:A:PHE:H	7	0.12	0.02	0.12
(1,201)	1:6:A:HIS:HA	1:7:A:GLU:HG2	6	1.1	0.48	1.14
(1,201)	1:6:A:HIS:HA	1:7:A:GLU:HG3	6	1.1	0.48	1.14
(1,880)	1:36:A:LEU:HD11	1:37:A:VAL:HA	6	0.74	0.37	0.98
(1,880)	1:36:A:LEU:HD12	1:37:A:VAL:HA	6	0.74	0.37	0.98
(1,880)	1:36:A:LEU:HD13	1:37:A:VAL:HA	6	0.74	0.37	0.98
(1,880)	1:36:A:LEU:HD21	1:37:A:VAL:HA	6	0.74	0.37	0.98
(1,880)	1:36:A:LEU:HD22	1:37:A:VAL:HA	6	0.74	0.37	0.98
(1,880)	1:36:A:LEU:HD23	1:37:A:VAL:HA	6	0.74	0.37	0.98
(1,739)	1:30:A:ALA:HB1	1:34:A:THR:H	6	0.21	0.09	0.17
(1,739)	1:30:A:ALA:HB2	1:34:A:THR:H	6	0.21	0.09	0.17
(1,739)	1:30:A:ALA:HB3	1:34:A:THR:H	6	0.21	0.09	0.17
(1,101)	1:39:A:ALA:HB1	1:42:A:SER:HB2	6	0.19	0.06	0.18
(1,101)	1:39:A:ALA:HB1	1:42:A:SER:HB3	6	0.19	0.06	0.18
(1,101)	1:39:A:ALA:HB2	1:42:A:SER:HB2	6	0.19	0.06	0.18
(1,101)	1:39:A:ALA:HB2	1:42:A:SER:HB3	6	0.19	0.06	0.18
(1,101)	1:39:A:ALA:HB3	1:42:A:SER:HB2	6	0.19	0.06	0.18
(1,101)	1:39:A:ALA:HB3	1:42:A:SER:HB3	6	0.19	0.06	0.18
(1,918)	1:47:A:THR:HG21	1:48:A:VAL:HG11	6	0.17	0.04	0.16
(1,918)	1:47:A:THR:HG21	1:48:A:VAL:HG12	6	0.17	0.04	0.16
(1,918)	1:47:A:THR:HG21	1:48:A:VAL:HG13	6	0.17	0.04	0.16
(1,918)	1:47:A:THR:HG21	1:48:A:VAL:HG21	6	0.17	0.04	0.16
(1,918)	1:47:A:THR:HG21	1:48:A:VAL:HG22	6	0.17	0.04	0.16
(1,918)	1:47:A:THR:HG21	1:48:A:VAL:HG23	6	0.17	0.04	0.16
(1,918)	1:47:A:THR:HG22	1:48:A:VAL:HG11	6	0.17	0.04	0.16
(1,918)	1:47:A:THR:HG22	1:48:A:VAL:HG12	6	0.17	0.04	0.16
(1,918)	1:47:A:THR:HG22	1:48:A:VAL:HG13	6	0.17	0.04	0.16
(1,918)	1:47:A:THR:HG22	1:48:A:VAL:HG21	6	0.17	0.04	0.16
(1,918)	1:47:A:THR:HG22	1:48:A:VAL:HG22	6	0.17	0.04	0.16
(1,918)	1:47:A:THR:HG22	1:48:A:VAL:HG23	6	0.17	0.04	0.16
(1,918)	1:47:A:THR:HG23	1:48:A:VAL:HG11	6	0.17	0.04	0.16
(1,918)	1:47:A:THR:HG23	1:48:A:VAL:HG12	6	0.17	0.04	0.16
(1,918)	1:47:A:THR:HG23	1:48:A:VAL:HG13	6	0.17	0.04	0.16
(1,918)	1:47:A:THR:HG23	1:48:A:VAL:HG21	6	0.17	0.04	0.16
(1,918)	1:47:A:THR:HG23	1:48:A:VAL:HG22	6	0.17	0.04	0.16
(1,918)	1:47:A:THR:HG23	1:48:A:VAL:HG23	6	0.17	0.04	0.16
(1,1032)	1:94:A:GLN:HB2	1:94:A:GLN:HE21	6	0.13	0.0	0.13
(1,1032)	1:94:A:GLN:HB2	1:94:A:GLN:HE22	6	0.13	0.0	0.13
(1,1032)	1:94:A:GLN:HB3	1:94:A:GLN:HE21	6	0.13	0.0	0.13
(1,1032)	1:94:A:GLN:HB3	1:94:A:GLN:HE22	6	0.13	0.0	0.13
(1,984)	1:72:A:GLU:HB2	1:73:A:THR:HG21	5	1.06	0.02	1.07
(1,984)	1:72:A:GLU:HB2	1:73:A:THR:HG22	5	1.06	0.02	1.07

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,984)	1:72:A:GLU:HB2	1:73:A:THR:HG23	5	1.06	0.02	1.07
(1,984)	1:72:A:GLU:HB3	1:73:A:THR:HG21	5	1.06	0.02	1.07
(1,984)	1:72:A:GLU:HB3	1:73:A:THR:HG22	5	1.06	0.02	1.07
(1,984)	1:72:A:GLU:HB3	1:73:A:THR:HG23	5	1.06	0.02	1.07
(1,836)	1:24:A:LYS:HE2	1:25:A:LEU:H	5	1.02	0.04	1.03
(1,836)	1:24:A:LYS:HE3	1:25:A:LEU:H	5	1.02	0.04	1.03
(1,762)	1:72:A:GLU:H	1:73:A:THR:HG21	5	0.95	0.07	0.94
(1,762)	1:72:A:GLU:H	1:73:A:THR:HG22	5	0.95	0.07	0.94
(1,762)	1:72:A:GLU:H	1:73:A:THR:HG23	5	0.95	0.07	0.94
(1,243)	1:49:A:ASP:HB3	1:50:A:SER:HB2	5	0.68	0.04	0.69
(1,243)	1:49:A:ASP:HB3	1:50:A:SER:HB3	5	0.68	0.04	0.69
(1,1041)	1:95:A:LEU:HD11	1:107:A:ALA:H	5	0.25	0.09	0.28
(1,1041)	1:95:A:LEU:HD12	1:107:A:ALA:H	5	0.25	0.09	0.28
(1,1041)	1:95:A:LEU:HD13	1:107:A:ALA:H	5	0.25	0.09	0.28
(1,1041)	1:95:A:LEU:HD21	1:107:A:ALA:H	5	0.25	0.09	0.28
(1,1041)	1:95:A:LEU:HD22	1:107:A:ALA:H	5	0.25	0.09	0.28
(1,1041)	1:95:A:LEU:HD23	1:107:A:ALA:H	5	0.25	0.09	0.28
(1,408)	1:124:A:ILE:HG21	1:128:A:ALA:H	5	0.17	0.04	0.19
(1,408)	1:124:A:ILE:HG22	1:128:A:ALA:H	5	0.17	0.04	0.19
(1,408)	1:124:A:ILE:HG23	1:128:A:ALA:H	5	0.17	0.04	0.19
(1,651)	1:47:A:THR:HG21	1:49:A:ASP:H	5	0.16	0.03	0.16
(1,651)	1:47:A:THR:HG22	1:49:A:ASP:H	5	0.16	0.03	0.16
(1,651)	1:47:A:THR:HG23	1:49:A:ASP:H	5	0.16	0.03	0.16
(1,282)	1:92:A:PHE:HD1	1:114:A:ILE:HD11	4	1.13	0.06	1.14
(1,282)	1:92:A:PHE:HD1	1:114:A:ILE:HD12	4	1.13	0.06	1.14
(1,282)	1:92:A:PHE:HD1	1:114:A:ILE:HD13	4	1.13	0.06	1.14
(1,736)	1:84:A:LEU:HD21	1:120:A:GLN:HE21	4	1.07	0.1	1.1
(1,736)	1:84:A:LEU:HD22	1:120:A:GLN:HE21	4	1.07	0.1	1.1
(1,736)	1:84:A:LEU:HD23	1:120:A:GLN:HE21	4	1.07	0.1	1.1
(1,1034)	1:94:A:GLN:HG2	1:95:A:LEU:HD11	4	0.88	0.02	0.88
(1,1034)	1:94:A:GLN:HG2	1:95:A:LEU:HD12	4	0.88	0.02	0.88
(1,1034)	1:94:A:GLN:HG2	1:95:A:LEU:HD13	4	0.88	0.02	0.88
(1,1034)	1:94:A:GLN:HG2	1:95:A:LEU:HD21	4	0.88	0.02	0.88
(1,1034)	1:94:A:GLN:HG2	1:95:A:LEU:HD22	4	0.88	0.02	0.88
(1,1034)	1:94:A:GLN:HG2	1:95:A:LEU:HD23	4	0.88	0.02	0.88
(1,1034)	1:94:A:GLN:HG3	1:95:A:LEU:HD11	4	0.88	0.02	0.88
(1,1034)	1:94:A:GLN:HG3	1:95:A:LEU:HD12	4	0.88	0.02	0.88
(1,1034)	1:94:A:GLN:HG3	1:95:A:LEU:HD13	4	0.88	0.02	0.88
(1,1034)	1:94:A:GLN:HG3	1:95:A:LEU:HD21	4	0.88	0.02	0.88
(1,1034)	1:94:A:GLN:HG3	1:95:A:LEU:HD22	4	0.88	0.02	0.88
(1,1034)	1:94:A:GLN:HG3	1:95:A:LEU:HD23	4	0.88	0.02	0.88
(1,136)	1:120:A:GLN:HA	1:124:A:ILE:HD11	4	0.66	0.08	0.68

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,136)	1:120:A:GLN:HA	1:124:A:ILE:HD12	4	0.66	0.08	0.68
(1,136)	1:120:A:GLN:HA	1:124:A:ILE:HD13	4	0.66	0.08	0.68
(1,115)	1:121:A:ILE:HA	1:124:A:ILE:HD11	4	0.28	0.03	0.3
(1,115)	1:121:A:ILE:HA	1:124:A:ILE:HD12	4	0.28	0.03	0.3
(1,115)	1:121:A:ILE:HA	1:124:A:ILE:HD13	4	0.28	0.03	0.3
(1,759)	1:129:A:GLN:HA	1:129:A:GLN:HE21	4	0.28	0.09	0.26
(1,759)	1:129:A:GLN:HA	1:129:A:GLN:HE22	4	0.28	0.09	0.26
(1,185)	1:92:A:PHE:HA	1:92:A:PHE:HD1	4	0.25	0.01	0.24
(1,881)	1:36:A:LEU:HD11	1:37:A:VAL:HG11	4	0.24	0.03	0.24
(1,881)	1:36:A:LEU:HD11	1:37:A:VAL:HG12	4	0.24	0.03	0.24
(1,881)	1:36:A:LEU:HD11	1:37:A:VAL:HG13	4	0.24	0.03	0.24
(1,881)	1:36:A:LEU:HD11	1:37:A:VAL:HG21	4	0.24	0.03	0.24
(1,881)	1:36:A:LEU:HD11	1:37:A:VAL:HG22	4	0.24	0.03	0.24
(1,881)	1:36:A:LEU:HD11	1:37:A:VAL:HG23	4	0.24	0.03	0.24
(1,881)	1:36:A:LEU:HD12	1:37:A:VAL:HG11	4	0.24	0.03	0.24
(1,881)	1:36:A:LEU:HD12	1:37:A:VAL:HG12	4	0.24	0.03	0.24
(1,881)	1:36:A:LEU:HD12	1:37:A:VAL:HG13	4	0.24	0.03	0.24
(1,881)	1:36:A:LEU:HD12	1:37:A:VAL:HG21	4	0.24	0.03	0.24
(1,881)	1:36:A:LEU:HD12	1:37:A:VAL:HG22	4	0.24	0.03	0.24
(1,881)	1:36:A:LEU:HD12	1:37:A:VAL:HG23	4	0.24	0.03	0.24
(1,881)	1:36:A:LEU:HD13	1:37:A:VAL:HG11	4	0.24	0.03	0.24
(1,881)	1:36:A:LEU:HD13	1:37:A:VAL:HG12	4	0.24	0.03	0.24
(1,881)	1:36:A:LEU:HD13	1:37:A:VAL:HG13	4	0.24	0.03	0.24
(1,881)	1:36:A:LEU:HD13	1:37:A:VAL:HG21	4	0.24	0.03	0.24
(1,881)	1:36:A:LEU:HD13	1:37:A:VAL:HG22	4	0.24	0.03	0.24
(1,881)	1:36:A:LEU:HD13	1:37:A:VAL:HG23	4	0.24	0.03	0.24
(1,881)	1:36:A:LEU:HD21	1:37:A:VAL:HG11	4	0.24	0.03	0.24
(1,881)	1:36:A:LEU:HD21	1:37:A:VAL:HG12	4	0.24	0.03	0.24
(1,881)	1:36:A:LEU:HD21	1:37:A:VAL:HG13	4	0.24	0.03	0.24
(1,881)	1:36:A:LEU:HD21	1:37:A:VAL:HG21	4	0.24	0.03	0.24
(1,881)	1:36:A:LEU:HD21	1:37:A:VAL:HG22	4	0.24	0.03	0.24
(1,881)	1:36:A:LEU:HD21	1:37:A:VAL:HG23	4	0.24	0.03	0.24
(1,881)	1:36:A:LEU:HD22	1:37:A:VAL:HG11	4	0.24	0.03	0.24
(1,881)	1:36:A:LEU:HD22	1:37:A:VAL:HG12	4	0.24	0.03	0.24
(1,881)	1:36:A:LEU:HD22	1:37:A:VAL:HG13	4	0.24	0.03	0.24
(1,881)	1:36:A:LEU:HD22	1:37:A:VAL:HG21	4	0.24	0.03	0.24
(1,881)	1:36:A:LEU:HD22	1:37:A:VAL:HG22	4	0.24	0.03	0.24
(1,881)	1:36:A:LEU:HD22	1:37:A:VAL:HG23	4	0.24	0.03	0.24
(1,881)	1:36:A:LEU:HD23	1:37:A:VAL:HG11	4	0.24	0.03	0.24
(1,881)	1:36:A:LEU:HD23	1:37:A:VAL:HG12	4	0.24	0.03	0.24
(1,881)	1:36:A:LEU:HD23	1:37:A:VAL:HG13	4	0.24	0.03	0.24
(1,881)	1:36:A:LEU:HD23	1:37:A:VAL:HG21	4	0.24	0.03	0.24

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,881)	1:36:A:LEU:HD23	1:37:A:VAL:HG22	4	0.24	0.03	0.24
(1,881)	1:36:A:LEU:HD23	1:37:A:VAL:HG23	4	0.24	0.03	0.24
(1,550)	1:56:A:ASP:H	1:56:A:ASP:HB3	4	0.22	0.0	0.22
(1,673)	1:105:A:ASP:HA	1:107:A:ALA:H	4	0.15	0.03	0.15
(1,427)	1:131:A:ARG:HA	1:132:A:LEU:H	4	0.14	0.02	0.14
(1,559)	1:97:A:THR:HG21	1:101:A:GLN:HE21	3	1.47	0.9	1.06
(1,559)	1:97:A:THR:HG22	1:101:A:GLN:HE21	3	1.47	0.9	1.06
(1,559)	1:97:A:THR:HG23	1:101:A:GLN:HE21	3	1.47	0.9	1.06
(1,743)	1:53:A:LYS:H	1:53:A:LYS:HE2	3	1.14	0.0	1.14
(1,743)	1:53:A:LYS:H	1:53:A:LYS:HE3	3	1.14	0.0	1.14
(1,1004)	1:84:A:LEU:HD11	1:120:A:GLN:HE21	3	1.02	0.04	1.03
(1,1004)	1:84:A:LEU:HD11	1:120:A:GLN:HE22	3	1.02	0.04	1.03
(1,1004)	1:84:A:LEU:HD12	1:120:A:GLN:HE21	3	1.02	0.04	1.03
(1,1004)	1:84:A:LEU:HD12	1:120:A:GLN:HE22	3	1.02	0.04	1.03
(1,1004)	1:84:A:LEU:HD13	1:120:A:GLN:HE21	3	1.02	0.04	1.03
(1,1004)	1:84:A:LEU:HD13	1:120:A:GLN:HE22	3	1.02	0.04	1.03
(1,1004)	1:84:A:LEU:HD21	1:120:A:GLN:HE21	3	1.02	0.04	1.03
(1,1004)	1:84:A:LEU:HD21	1:120:A:GLN:HE22	3	1.02	0.04	1.03
(1,1004)	1:84:A:LEU:HD22	1:120:A:GLN:HE21	3	1.02	0.04	1.03
(1,1004)	1:84:A:LEU:HD22	1:120:A:GLN:HE22	3	1.02	0.04	1.03
(1,1004)	1:84:A:LEU:HD23	1:120:A:GLN:HE21	3	1.02	0.04	1.03
(1,1004)	1:84:A:LEU:HD23	1:120:A:GLN:HE22	3	1.02	0.04	1.03
(1,231)	1:49:A:ASP:HB2	1:50:A:SER:HB2	3	0.83	0.01	0.82
(1,231)	1:49:A:ASP:HB2	1:50:A:SER:HB3	3	0.83	0.01	0.82
(1,735)	1:84:A:LEU:HD11	1:120:A:GLN:HE21	3	0.7	0.06	0.71
(1,735)	1:84:A:LEU:HD12	1:120:A:GLN:HE21	3	0.7	0.06	0.71
(1,735)	1:84:A:LEU:HD13	1:120:A:GLN:HE21	3	0.7	0.06	0.71
(1,688)	1:84:A:LEU:HD21	1:120:A:GLN:HE22	3	0.53	0.05	0.54
(1,688)	1:84:A:LEU:HD22	1:120:A:GLN:HE22	3	0.53	0.05	0.54
(1,688)	1:84:A:LEU:HD23	1:120:A:GLN:HE22	3	0.53	0.05	0.54
(1,929)	1:50:A:SER:HA	1:53:A:LYS:HG2	3	0.51	0.07	0.5
(1,929)	1:50:A:SER:HA	1:53:A:LYS:HG3	3	0.51	0.07	0.5
(1,153)	1:84:A:LEU:HD11	1:120:A:GLN:HE22	3	0.32	0.05	0.34
(1,153)	1:84:A:LEU:HD12	1:120:A:GLN:HE22	3	0.32	0.05	0.34
(1,153)	1:84:A:LEU:HD13	1:120:A:GLN:HE22	3	0.32	0.05	0.34
(1,527)	1:7:A:GLU:H	1:7:A:GLU:HG2	3	0.22	0.01	0.22
(1,527)	1:7:A:GLU:H	1:7:A:GLU:HG3	3	0.22	0.01	0.22
(1,787)	1:70:A:ILE:HD11	1:82:A:GLU:H	3	0.16	0.06	0.13
(1,787)	1:70:A:ILE:HD12	1:82:A:GLU:H	3	0.16	0.06	0.13
(1,787)	1:70:A:ILE:HD13	1:82:A:GLU:H	3	0.16	0.06	0.13
(1,853)	1:31:A:VAL:HG11	1:35:A:ARG:HD2	2	1.38	0.29	1.38
(1,853)	1:31:A:VAL:HG11	1:35:A:ARG:HD3	2	1.38	0.29	1.38

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,853)	1:31:A:VAL:HG12	1:35:A:ARG:HD2	2	1.38	0.29	1.38
(1,853)	1:31:A:VAL:HG12	1:35:A:ARG:HD3	2	1.38	0.29	1.38
(1,853)	1:31:A:VAL:HG13	1:35:A:ARG:HD2	2	1.38	0.29	1.38
(1,853)	1:31:A:VAL:HG13	1:35:A:ARG:HD3	2	1.38	0.29	1.38
(1,853)	1:31:A:VAL:HG21	1:35:A:ARG:HD2	2	1.38	0.29	1.38
(1,853)	1:31:A:VAL:HG21	1:35:A:ARG:HD3	2	1.38	0.29	1.38
(1,853)	1:31:A:VAL:HG22	1:35:A:ARG:HD2	2	1.38	0.29	1.38
(1,853)	1:31:A:VAL:HG22	1:35:A:ARG:HD3	2	1.38	0.29	1.38
(1,853)	1:31:A:VAL:HG23	1:35:A:ARG:HD2	2	1.38	0.29	1.38
(1,853)	1:31:A:VAL:HG23	1:35:A:ARG:HD3	2	1.38	0.29	1.38
(1,55)	1:40:A:PHE:HD1	1:48:A:VAL:HG11	2	0.82	0.38	0.82
(1,55)	1:40:A:PHE:HD1	1:48:A:VAL:HG12	2	0.82	0.38	0.82
(1,55)	1:40:A:PHE:HD1	1:48:A:VAL:HG13	2	0.82	0.38	0.82
(1,55)	1:40:A:PHE:HD2	1:48:A:VAL:HG11	2	0.82	0.38	0.82
(1,55)	1:40:A:PHE:HD2	1:48:A:VAL:HG12	2	0.82	0.38	0.82
(1,55)	1:40:A:PHE:HD2	1:48:A:VAL:HG13	2	0.82	0.38	0.82
(1,861)	1:34:A:THR:HG21	1:35:A:ARG:HG2	2	0.8	0.32	0.8
(1,861)	1:34:A:THR:HG21	1:35:A:ARG:HG3	2	0.8	0.32	0.8
(1,861)	1:34:A:THR:HG22	1:35:A:ARG:HG2	2	0.8	0.32	0.8
(1,861)	1:34:A:THR:HG22	1:35:A:ARG:HG3	2	0.8	0.32	0.8
(1,861)	1:34:A:THR:HG23	1:35:A:ARG:HG2	2	0.8	0.32	0.8
(1,861)	1:34:A:THR:HG23	1:35:A:ARG:HG3	2	0.8	0.32	0.8
(1,936)	1:51:A:LEU:HD11	1:54:A:GLN:HE21	2	0.78	0.44	0.78
(1,936)	1:51:A:LEU:HD11	1:54:A:GLN:HE22	2	0.78	0.44	0.78
(1,936)	1:51:A:LEU:HD12	1:54:A:GLN:HE21	2	0.78	0.44	0.78
(1,936)	1:51:A:LEU:HD12	1:54:A:GLN:HE22	2	0.78	0.44	0.78
(1,936)	1:51:A:LEU:HD13	1:54:A:GLN:HE21	2	0.78	0.44	0.78
(1,936)	1:51:A:LEU:HD13	1:54:A:GLN:HE22	2	0.78	0.44	0.78
(1,936)	1:51:A:LEU:HD21	1:54:A:GLN:HE21	2	0.78	0.44	0.78
(1,936)	1:51:A:LEU:HD21	1:54:A:GLN:HE22	2	0.78	0.44	0.78
(1,936)	1:51:A:LEU:HD22	1:54:A:GLN:HE21	2	0.78	0.44	0.78
(1,936)	1:51:A:LEU:HD22	1:54:A:GLN:HE22	2	0.78	0.44	0.78
(1,936)	1:51:A:LEU:HD23	1:54:A:GLN:HE21	2	0.78	0.44	0.78
(1,936)	1:51:A:LEU:HD23	1:54:A:GLN:HE22	2	0.78	0.44	0.78
(1,1062)	1:104:A:GLU:H	1:104:A:GLU:HG2	2	0.69	0.0	0.69
(1,1062)	1:104:A:GLU:H	1:104:A:GLU:HG3	2	0.69	0.0	0.69
(1,567)	1:28:A:GLU:HG2	1:29:A:ASN:H	2	0.6	0.01	0.6
(1,567)	1:28:A:GLU:HG3	1:29:A:ASN:H	2	0.6	0.01	0.6
(1,387)	1:104:A:GLU:H	1:104:A:GLU:HG2	2	0.55	0.0	0.55
(1,128)	1:104:A:GLU:H	1:104:A:GLU:HG3	2	0.5	0.0	0.5
(1,1)	1:95:A:LEU:HD21	1:107:A:ALA:HB1	2	0.44	0.09	0.44
(1,1)	1:95:A:LEU:HD21	1:107:A:ALA:HB2	2	0.44	0.09	0.44

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1)	1:95:A:LEU:HD21	1:107:A:ALA:HB3	2	0.44	0.09	0.44
(1,1)	1:95:A:LEU:HD22	1:107:A:ALA:HB1	2	0.44	0.09	0.44
(1,1)	1:95:A:LEU:HD22	1:107:A:ALA:HB2	2	0.44	0.09	0.44
(1,1)	1:95:A:LEU:HD22	1:107:A:ALA:HB3	2	0.44	0.09	0.44
(1,1)	1:95:A:LEU:HD23	1:107:A:ALA:HB1	2	0.44	0.09	0.44
(1,1)	1:95:A:LEU:HD23	1:107:A:ALA:HB2	2	0.44	0.09	0.44
(1,1)	1:95:A:LEU:HD23	1:107:A:ALA:HB3	2	0.44	0.09	0.44
(1,8)	1:95:A:LEU:HD21	1:107:A:ALA:HA	2	0.41	0.08	0.41
(1,8)	1:95:A:LEU:HD22	1:107:A:ALA:HA	2	0.41	0.08	0.41
(1,8)	1:95:A:LEU:HD23	1:107:A:ALA:HA	2	0.41	0.08	0.41
(1,988)	1:76:A:GLU:HB2	1:77:A:LEU:HB2	2	0.4	0.28	0.4
(1,988)	1:76:A:GLU:HB2	1:77:A:LEU:HB3	2	0.4	0.28	0.4
(1,988)	1:76:A:GLU:HB3	1:77:A:LEU:HB2	2	0.4	0.28	0.4
(1,988)	1:76:A:GLU:HB3	1:77:A:LEU:HB3	2	0.4	0.28	0.4
(1,171)	1:37:A:VAL:HA	1:39:A:ALA:HB1	2	0.26	0.05	0.26
(1,171)	1:37:A:VAL:HA	1:39:A:ALA:HB2	2	0.26	0.05	0.26
(1,171)	1:37:A:VAL:HA	1:39:A:ALA:HB3	2	0.26	0.05	0.26
(1,76)	1:70:A:ILE:HD11	1:82:A:GLU:HG2	2	0.22	0.02	0.22
(1,76)	1:70:A:ILE:HD11	1:82:A:GLU:HG3	2	0.22	0.02	0.22
(1,76)	1:70:A:ILE:HD12	1:82:A:GLU:HG2	2	0.22	0.02	0.22
(1,76)	1:70:A:ILE:HD12	1:82:A:GLU:HG3	2	0.22	0.02	0.22
(1,76)	1:70:A:ILE:HD13	1:82:A:GLU:HG2	2	0.22	0.02	0.22
(1,76)	1:70:A:ILE:HD13	1:82:A:GLU:HG3	2	0.22	0.02	0.22
(1,273)	1:94:A:GLN:HG2	1:110:A:VAL:HG21	2	0.21	0.09	0.21
(1,273)	1:94:A:GLN:HG2	1:110:A:VAL:HG22	2	0.21	0.09	0.21
(1,273)	1:94:A:GLN:HG2	1:110:A:VAL:HG23	2	0.21	0.09	0.21
(1,273)	1:94:A:GLN:HG3	1:110:A:VAL:HG21	2	0.21	0.09	0.21
(1,273)	1:94:A:GLN:HG3	1:110:A:VAL:HG22	2	0.21	0.09	0.21
(1,273)	1:94:A:GLN:HG3	1:110:A:VAL:HG23	2	0.21	0.09	0.21
(1,152)	1:40:A:PHE:HD1	1:48:A:VAL:HG21	2	0.2	0.03	0.2
(1,152)	1:40:A:PHE:HD1	1:48:A:VAL:HG22	2	0.2	0.03	0.2
(1,152)	1:40:A:PHE:HD1	1:48:A:VAL:HG23	2	0.2	0.03	0.2
(1,152)	1:40:A:PHE:HD2	1:48:A:VAL:HG21	2	0.2	0.03	0.2
(1,152)	1:40:A:PHE:HD2	1:48:A:VAL:HG22	2	0.2	0.03	0.2
(1,152)	1:40:A:PHE:HD2	1:48:A:VAL:HG23	2	0.2	0.03	0.2
(1,748)	1:7:A:GLU:HG2	1:8:A:ASN:H	2	0.2	0.05	0.2
(1,748)	1:7:A:GLU:HG3	1:8:A:ASN:H	2	0.2	0.05	0.2
(1,664)	1:88:A:ASN:HD21	1:91:A:LEU:HD11	2	0.16	0.04	0.16
(1,664)	1:88:A:ASN:HD21	1:91:A:LEU:HD12	2	0.16	0.04	0.16
(1,664)	1:88:A:ASN:HD21	1:91:A:LEU:HD13	2	0.16	0.04	0.16
(1,768)	1:28:A:GLU:HG2	1:30:A:ALA:H	2	0.14	0.04	0.14
(1,768)	1:28:A:GLU:HG3	1:30:A:ALA:H	2	0.14	0.04	0.14

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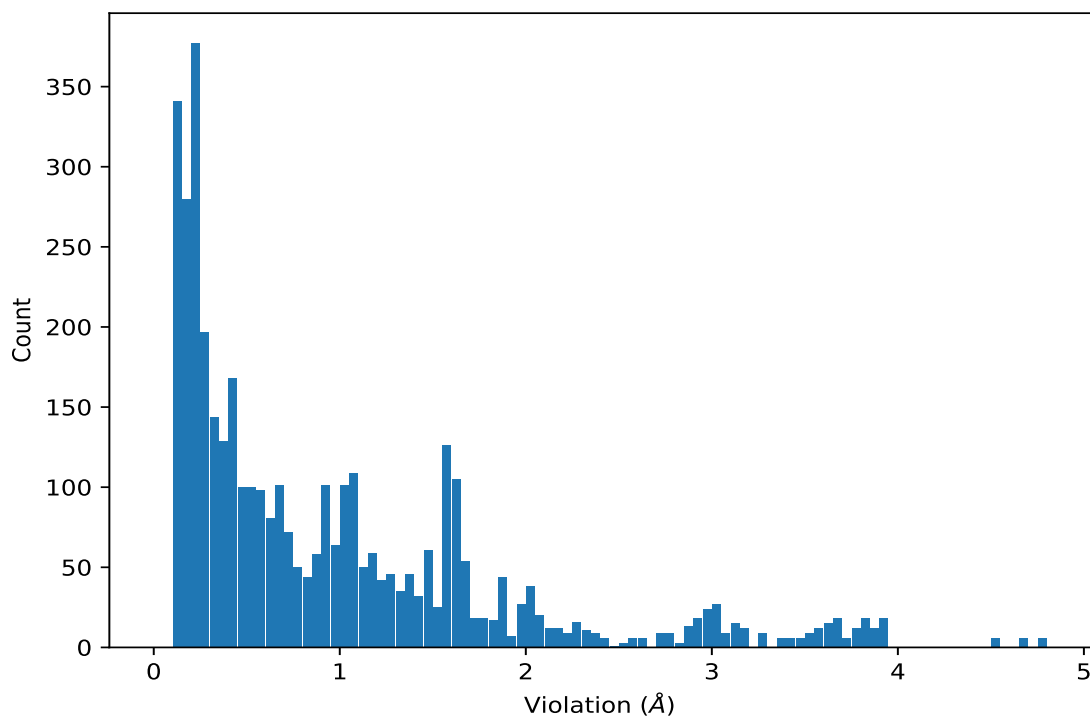
Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,111)	1:39:A:ALA:HB1	1:44:A:ASP:HB2	2	0.12	0.0	0.12
(1,111)	1:39:A:ALA:HB2	1:44:A:ASP:HB2	2	0.12	0.0	0.12
(1,111)	1:39:A:ALA:HB3	1:44:A:ASP:HB2	2	0.12	0.0	0.12
(1,159)	1:78:A:ALA:HB1	1:81:A:GLY:H	2	0.12	0.0	0.12
(1,159)	1:78:A:ALA:HB2	1:81:A:GLY:H	2	0.12	0.0	0.12
(1,159)	1:78:A:ALA:HB3	1:81:A:GLY:H	2	0.12	0.0	0.12
(1,129)	1:17:A:GLN:HB2	1:20:A:ALA:HB1	2	0.11	0.01	0.11
(1,129)	1:17:A:GLN:HB2	1:20:A:ALA:HB2	2	0.11	0.01	0.11
(1,129)	1:17:A:GLN:HB2	1:20:A:ALA:HB3	2	0.11	0.01	0.11
(1,129)	1:17:A:GLN:HB3	1:20:A:ALA:HB1	2	0.11	0.01	0.11
(1,129)	1:17:A:GLN:HB3	1:20:A:ALA:HB2	2	0.11	0.01	0.11
(1,129)	1:17:A:GLN:HB3	1:20:A:ALA:HB3	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)
(1,187)	1:118:A:LEU:HD11	1:122:A:GLN:HE21	8	4.76
(1,187)	1:118:A:LEU:HD11	1:122:A:GLN:HE22	8	4.76
(1,187)	1:118:A:LEU:HD12	1:122:A:GLN:HE21	8	4.76
(1,187)	1:118:A:LEU:HD12	1:122:A:GLN:HE22	8	4.76
(1,187)	1:118:A:LEU:HD13	1:122:A:GLN:HE21	8	4.76
(1,187)	1:118:A:LEU:HD13	1:122:A:GLN:HE22	8	4.76
(1,187)	1:118:A:LEU:HD11	1:122:A:GLN:HE21	3	4.67
(1,187)	1:118:A:LEU:HD11	1:122:A:GLN:HE22	3	4.67
(1,187)	1:118:A:LEU:HD12	1:122:A:GLN:HE21	3	4.67
(1,187)	1:118:A:LEU:HD12	1:122:A:GLN:HE22	3	4.67
(1,187)	1:118:A:LEU:HD13	1:122:A:GLN:HE21	3	4.67
(1,187)	1:118:A:LEU:HD13	1:122:A:GLN:HE22	3	4.67
(1,187)	1:118:A:LEU:HD11	1:122:A:GLN:HE21	2	4.54
(1,187)	1:118:A:LEU:HD11	1:122:A:GLN:HE22	2	4.54
(1,187)	1:118:A:LEU:HD12	1:122:A:GLN:HE21	2	4.54
(1,187)	1:118:A:LEU:HD12	1:122:A:GLN:HE22	2	4.54
(1,187)	1:118:A:LEU:HD13	1:122:A:GLN:HE21	2	4.54
(1,187)	1:118:A:LEU:HD13	1:122:A:GLN:HE22	2	4.54
(1,187)	1:118:A:LEU:HD11	1:122:A:GLN:HE21	1	3.94
(1,187)	1:118:A:LEU:HD11	1:122:A:GLN:HE22	1	3.94
(1,187)	1:118:A:LEU:HD12	1:122:A:GLN:HE21	1	3.94
(1,187)	1:118:A:LEU:HD12	1:122:A:GLN:HE22	1	3.94
(1,187)	1:118:A:LEU:HD13	1:122:A:GLN:HE21	1	3.94
(1,187)	1:118:A:LEU:HD13	1:122:A:GLN:HE22	1	3.94
(1,187)	1:118:A:LEU:HD11	1:122:A:GLN:HE21	10	3.93
(1,187)	1:118:A:LEU:HD11	1:122:A:GLN:HE22	10	3.93
(1,187)	1:118:A:LEU:HD12	1:122:A:GLN:HE21	10	3.93
(1,187)	1:118:A:LEU:HD12	1:122:A:GLN:HE22	10	3.93
(1,187)	1:118:A:LEU:HD13	1:122:A:GLN:HE21	10	3.93
(1,187)	1:118:A:LEU:HD13	1:122:A:GLN:HE22	10	3.93
(1,165)	1:118:A:LEU:HD21	1:122:A:GLN:HE21	8	3.9
(1,165)	1:118:A:LEU:HD21	1:122:A:GLN:HE22	8	3.9
(1,165)	1:118:A:LEU:HD22	1:122:A:GLN:HE21	8	3.9
(1,165)	1:118:A:LEU:HD22	1:122:A:GLN:HE22	8	3.9
(1,165)	1:118:A:LEU:HD23	1:122:A:GLN:HE21	8	3.9
(1,165)	1:118:A:LEU:HD23	1:122:A:GLN:HE22	8	3.9
(1,187)	1:118:A:LEU:HD11	1:122:A:GLN:HE21	9	3.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,187)	1:118:A:LEU:HD11	1:122:A:GLN:HE22	9	3.88
(1,187)	1:118:A:LEU:HD12	1:122:A:GLN:HE21	9	3.88
(1,187)	1:118:A:LEU:HD12	1:122:A:GLN:HE22	9	3.88
(1,187)	1:118:A:LEU:HD13	1:122:A:GLN:HE21	9	3.88
(1,187)	1:118:A:LEU:HD13	1:122:A:GLN:HE22	9	3.88
(1,165)	1:118:A:LEU:HD21	1:122:A:GLN:HE21	1	3.86
(1,165)	1:118:A:LEU:HD21	1:122:A:GLN:HE22	1	3.86
(1,165)	1:118:A:LEU:HD22	1:122:A:GLN:HE21	1	3.86
(1,165)	1:118:A:LEU:HD22	1:122:A:GLN:HE22	1	3.86
(1,165)	1:118:A:LEU:HD23	1:122:A:GLN:HE21	1	3.86
(1,165)	1:118:A:LEU:HD23	1:122:A:GLN:HE22	1	3.86
(1,165)	1:118:A:LEU:HD21	1:122:A:GLN:HE21	9	3.83
(1,165)	1:118:A:LEU:HD21	1:122:A:GLN:HE22	9	3.83
(1,165)	1:118:A:LEU:HD22	1:122:A:GLN:HE21	9	3.83
(1,165)	1:118:A:LEU:HD22	1:122:A:GLN:HE22	9	3.83
(1,165)	1:118:A:LEU:HD23	1:122:A:GLN:HE21	9	3.83
(1,165)	1:118:A:LEU:HD23	1:122:A:GLN:HE22	9	3.83
(1,187)	1:118:A:LEU:HD11	1:122:A:GLN:HE21	4	3.8
(1,187)	1:118:A:LEU:HD11	1:122:A:GLN:HE22	4	3.8
(1,187)	1:118:A:LEU:HD12	1:122:A:GLN:HE21	4	3.8
(1,187)	1:118:A:LEU:HD12	1:122:A:GLN:HE22	4	3.8
(1,187)	1:118:A:LEU:HD13	1:122:A:GLN:HE21	4	3.8
(1,187)	1:118:A:LEU:HD13	1:122:A:GLN:HE22	4	3.8
(1,165)	1:118:A:LEU:HD21	1:122:A:GLN:HE21	10	3.8
(1,165)	1:118:A:LEU:HD21	1:122:A:GLN:HE22	10	3.8
(1,165)	1:118:A:LEU:HD22	1:122:A:GLN:HE21	10	3.8
(1,165)	1:118:A:LEU:HD22	1:122:A:GLN:HE22	10	3.8
(1,165)	1:118:A:LEU:HD23	1:122:A:GLN:HE21	10	3.8
(1,165)	1:118:A:LEU:HD23	1:122:A:GLN:HE22	10	3.8
(1,165)	1:118:A:LEU:HD21	1:122:A:GLN:HE21	3	3.78
(1,165)	1:118:A:LEU:HD21	1:122:A:GLN:HE22	3	3.78
(1,165)	1:118:A:LEU:HD22	1:122:A:GLN:HE21	3	3.78
(1,165)	1:118:A:LEU:HD22	1:122:A:GLN:HE22	3	3.78
(1,165)	1:118:A:LEU:HD23	1:122:A:GLN:HE21	3	3.78
(1,165)	1:118:A:LEU:HD23	1:122:A:GLN:HE22	3	3.78
(1,165)	1:118:A:LEU:HD21	1:122:A:GLN:HE21	4	3.78
(1,165)	1:118:A:LEU:HD21	1:122:A:GLN:HE22	4	3.78
(1,165)	1:118:A:LEU:HD22	1:122:A:GLN:HE21	4	3.78
(1,165)	1:118:A:LEU:HD22	1:122:A:GLN:HE22	4	3.78
(1,165)	1:118:A:LEU:HD23	1:122:A:GLN:HE21	4	3.78
(1,165)	1:118:A:LEU:HD23	1:122:A:GLN:HE22	4	3.78
(1,187)	1:118:A:LEU:HD11	1:122:A:GLN:HE21	5	3.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,187)	1:118:A:LEU:HD11	1:122:A:GLN:HE22	5	3.74
(1,187)	1:118:A:LEU:HD12	1:122:A:GLN:HE21	5	3.74
(1,187)	1:118:A:LEU:HD12	1:122:A:GLN:HE22	5	3.74
(1,187)	1:118:A:LEU:HD13	1:122:A:GLN:HE21	5	3.74
(1,187)	1:118:A:LEU:HD13	1:122:A:GLN:HE22	5	3.74
(1,165)	1:118:A:LEU:HD21	1:122:A:GLN:HE21	2	3.69
(1,165)	1:118:A:LEU:HD21	1:122:A:GLN:HE22	2	3.69
(1,165)	1:118:A:LEU:HD22	1:122:A:GLN:HE21	2	3.69
(1,165)	1:118:A:LEU:HD22	1:122:A:GLN:HE22	2	3.69
(1,165)	1:118:A:LEU:HD23	1:122:A:GLN:HE21	2	3.69
(1,165)	1:118:A:LEU:HD23	1:122:A:GLN:HE22	2	3.69
(1,165)	1:118:A:LEU:HD21	1:122:A:GLN:HE21	5	3.66
(1,165)	1:118:A:LEU:HD21	1:122:A:GLN:HE22	5	3.66
(1,165)	1:118:A:LEU:HD22	1:122:A:GLN:HE21	5	3.66
(1,165)	1:118:A:LEU:HD22	1:122:A:GLN:HE22	5	3.66
(1,165)	1:118:A:LEU:HD23	1:122:A:GLN:HE21	5	3.66
(1,165)	1:118:A:LEU:HD23	1:122:A:GLN:HE22	5	3.66
(1,165)	1:118:A:LEU:HD21	1:122:A:GLN:HE21	6	3.66
(1,165)	1:118:A:LEU:HD21	1:122:A:GLN:HE22	6	3.66
(1,165)	1:118:A:LEU:HD22	1:122:A:GLN:HE21	6	3.66
(1,165)	1:118:A:LEU:HD22	1:122:A:GLN:HE22	6	3.66
(1,165)	1:118:A:LEU:HD23	1:122:A:GLN:HE21	6	3.66
(1,165)	1:118:A:LEU:HD23	1:122:A:GLN:HE22	6	3.66
(1,187)	1:118:A:LEU:HD11	1:122:A:GLN:HE21	6	3.64
(1,187)	1:118:A:LEU:HD11	1:122:A:GLN:HE22	6	3.64
(1,187)	1:118:A:LEU:HD12	1:122:A:GLN:HE21	6	3.64
(1,187)	1:118:A:LEU:HD12	1:122:A:GLN:HE22	6	3.64
(1,187)	1:118:A:LEU:HD13	1:122:A:GLN:HE21	6	3.64
(1,187)	1:118:A:LEU:HD13	1:122:A:GLN:HE22	6	3.64
(1,619)	1:88:A:ASN:HD22	1:91:A:LEU:HD21	8	3.61
(1,619)	1:88:A:ASN:HD22	1:91:A:LEU:HD22	8	3.61
(1,619)	1:88:A:ASN:HD22	1:91:A:LEU:HD23	8	3.61
(1,187)	1:118:A:LEU:HD11	1:122:A:GLN:HE21	7	3.6
(1,187)	1:118:A:LEU:HD11	1:122:A:GLN:HE22	7	3.6
(1,187)	1:118:A:LEU:HD12	1:122:A:GLN:HE21	7	3.6
(1,187)	1:118:A:LEU:HD12	1:122:A:GLN:HE22	7	3.6
(1,187)	1:118:A:LEU:HD13	1:122:A:GLN:HE21	7	3.6
(1,187)	1:118:A:LEU:HD13	1:122:A:GLN:HE22	7	3.6
(1,252)	1:125:A:ILE:HD11	1:129:A:GLN:HE21	1	3.57
(1,252)	1:125:A:ILE:HD11	1:129:A:GLN:HE22	1	3.57
(1,252)	1:125:A:ILE:HD12	1:129:A:GLN:HE21	1	3.57
(1,252)	1:125:A:ILE:HD12	1:129:A:GLN:HE22	1	3.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,252)	1:125:A:ILE:HD13	1:129:A:GLN:HE21	1	3.57
(1,252)	1:125:A:ILE:HD13	1:129:A:GLN:HE22	1	3.57
(1,165)	1:118:A:LEU:HD21	1:122:A:GLN:HE21	7	3.56
(1,165)	1:118:A:LEU:HD21	1:122:A:GLN:HE22	7	3.56
(1,165)	1:118:A:LEU:HD22	1:122:A:GLN:HE21	7	3.56
(1,165)	1:118:A:LEU:HD22	1:122:A:GLN:HE22	7	3.56
(1,165)	1:118:A:LEU:HD23	1:122:A:GLN:HE21	7	3.56
(1,165)	1:118:A:LEU:HD23	1:122:A:GLN:HE22	7	3.56
(1,619)	1:88:A:ASN:HD22	1:91:A:LEU:HD21	5	3.54
(1,619)	1:88:A:ASN:HD22	1:91:A:LEU:HD22	5	3.54
(1,619)	1:88:A:ASN:HD22	1:91:A:LEU:HD23	5	3.54
(1,619)	1:88:A:ASN:HD22	1:91:A:LEU:HD21	10	3.51
(1,619)	1:88:A:ASN:HD22	1:91:A:LEU:HD22	10	3.51
(1,619)	1:88:A:ASN:HD22	1:91:A:LEU:HD23	10	3.51
(1,619)	1:88:A:ASN:HD22	1:91:A:LEU:HD21	1	3.5
(1,619)	1:88:A:ASN:HD22	1:91:A:LEU:HD22	1	3.5
(1,619)	1:88:A:ASN:HD22	1:91:A:LEU:HD23	1	3.5
(1,619)	1:88:A:ASN:HD22	1:91:A:LEU:HD21	6	3.47
(1,619)	1:88:A:ASN:HD22	1:91:A:LEU:HD22	6	3.47
(1,619)	1:88:A:ASN:HD22	1:91:A:LEU:HD23	6	3.47
(1,619)	1:88:A:ASN:HD22	1:91:A:LEU:HD21	7	3.45
(1,619)	1:88:A:ASN:HD22	1:91:A:LEU:HD22	7	3.45
(1,619)	1:88:A:ASN:HD22	1:91:A:LEU:HD23	7	3.45
(1,619)	1:88:A:ASN:HD22	1:91:A:LEU:HD21	4	3.43
(1,619)	1:88:A:ASN:HD22	1:91:A:LEU:HD22	4	3.43
(1,619)	1:88:A:ASN:HD22	1:91:A:LEU:HD23	4	3.43
(1,619)	1:88:A:ASN:HD22	1:91:A:LEU:HD21	2	3.41
(1,619)	1:88:A:ASN:HD22	1:91:A:LEU:HD22	2	3.41
(1,619)	1:88:A:ASN:HD22	1:91:A:LEU:HD23	2	3.41
(1,619)	1:88:A:ASN:HD22	1:91:A:LEU:HD21	3	3.39
(1,619)	1:88:A:ASN:HD22	1:91:A:LEU:HD22	3	3.39
(1,619)	1:88:A:ASN:HD22	1:91:A:LEU:HD23	3	3.39
(1,619)	1:88:A:ASN:HD22	1:91:A:LEU:HD21	9	3.37
(1,619)	1:88:A:ASN:HD22	1:91:A:LEU:HD22	9	3.37
(1,619)	1:88:A:ASN:HD22	1:91:A:LEU:HD23	9	3.37
(1,252)	1:125:A:ILE:HD11	1:129:A:GLN:HE21	9	3.27
(1,252)	1:125:A:ILE:HD11	1:129:A:GLN:HE22	9	3.27
(1,252)	1:125:A:ILE:HD12	1:129:A:GLN:HE21	9	3.27
(1,252)	1:125:A:ILE:HD12	1:129:A:GLN:HE22	9	3.27
(1,252)	1:125:A:ILE:HD13	1:129:A:GLN:HE21	9	3.27
(1,252)	1:125:A:ILE:HD13	1:129:A:GLN:HE22	9	3.27
(1,663)	1:88:A:ASN:HD21	1:91:A:LEU:HD21	8	3.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,663)	1:88:A:ASN:HD21	1:91:A:LEU:HD22	8	3.26
(1,663)	1:88:A:ASN:HD21	1:91:A:LEU:HD23	8	3.26
(1,663)	1:88:A:ASN:HD21	1:91:A:LEU:HD21	5	3.18
(1,663)	1:88:A:ASN:HD21	1:91:A:LEU:HD22	5	3.18
(1,663)	1:88:A:ASN:HD21	1:91:A:LEU:HD23	5	3.18
(1,252)	1:125:A:ILE:HD11	1:129:A:GLN:HE21	8	3.18
(1,252)	1:125:A:ILE:HD11	1:129:A:GLN:HE22	8	3.18
(1,252)	1:125:A:ILE:HD12	1:129:A:GLN:HE21	8	3.18
(1,252)	1:125:A:ILE:HD12	1:129:A:GLN:HE22	8	3.18
(1,252)	1:125:A:ILE:HD13	1:129:A:GLN:HE21	8	3.18
(1,252)	1:125:A:ILE:HD13	1:129:A:GLN:HE22	8	3.18
(1,663)	1:88:A:ASN:HD21	1:91:A:LEU:HD21	10	3.15
(1,663)	1:88:A:ASN:HD21	1:91:A:LEU:HD22	10	3.15
(1,663)	1:88:A:ASN:HD21	1:91:A:LEU:HD23	10	3.15
(1,663)	1:88:A:ASN:HD21	1:91:A:LEU:HD21	1	3.14
(1,663)	1:88:A:ASN:HD21	1:91:A:LEU:HD22	1	3.14
(1,663)	1:88:A:ASN:HD21	1:91:A:LEU:HD23	1	3.14
(1,252)	1:125:A:ILE:HD11	1:129:A:GLN:HE21	7	3.12
(1,252)	1:125:A:ILE:HD11	1:129:A:GLN:HE22	7	3.12
(1,252)	1:125:A:ILE:HD12	1:129:A:GLN:HE21	7	3.12
(1,252)	1:125:A:ILE:HD12	1:129:A:GLN:HE22	7	3.12
(1,252)	1:125:A:ILE:HD13	1:129:A:GLN:HE21	7	3.12
(1,252)	1:125:A:ILE:HD13	1:129:A:GLN:HE22	7	3.12
(1,1014)	1:88:A:ASN:HD21	1:91:A:LEU:HD21	8	3.11
(1,1014)	1:88:A:ASN:HD21	1:91:A:LEU:HD22	8	3.11
(1,1014)	1:88:A:ASN:HD21	1:91:A:LEU:HD23	8	3.11
(1,1014)	1:88:A:ASN:HD22	1:91:A:LEU:HD21	8	3.11
(1,1014)	1:88:A:ASN:HD22	1:91:A:LEU:HD22	8	3.11
(1,1014)	1:88:A:ASN:HD22	1:91:A:LEU:HD23	8	3.11
(1,663)	1:88:A:ASN:HD21	1:91:A:LEU:HD21	6	3.08
(1,663)	1:88:A:ASN:HD21	1:91:A:LEU:HD22	6	3.08
(1,663)	1:88:A:ASN:HD21	1:91:A:LEU:HD23	6	3.08
(1,663)	1:88:A:ASN:HD21	1:91:A:LEU:HD21	7	3.07
(1,663)	1:88:A:ASN:HD21	1:91:A:LEU:HD22	7	3.07
(1,663)	1:88:A:ASN:HD21	1:91:A:LEU:HD23	7	3.07
(1,663)	1:88:A:ASN:HD21	1:91:A:LEU:HD21	4	3.05
(1,663)	1:88:A:ASN:HD21	1:91:A:LEU:HD22	4	3.05
(1,663)	1:88:A:ASN:HD21	1:91:A:LEU:HD23	4	3.05
(1,1014)	1:88:A:ASN:HD21	1:91:A:LEU:HD21	5	3.03
(1,1014)	1:88:A:ASN:HD21	1:91:A:LEU:HD22	5	3.03
(1,1014)	1:88:A:ASN:HD21	1:91:A:LEU:HD23	5	3.03
(1,1014)	1:88:A:ASN:HD22	1:91:A:LEU:HD21	5	3.03

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1014)	1:88:A:ASN:HD22	1:91:A:LEU:HD22	5	3.03
(1,1014)	1:88:A:ASN:HD22	1:91:A:LEU:HD23	5	3.03
(1,663)	1:88:A:ASN:HD21	1:91:A:LEU:HD21	2	3.02
(1,663)	1:88:A:ASN:HD21	1:91:A:LEU:HD22	2	3.02
(1,663)	1:88:A:ASN:HD21	1:91:A:LEU:HD23	2	3.02
(1,252)	1:125:A:ILE:HD11	1:129:A:GLN:HE21	5	3.02
(1,252)	1:125:A:ILE:HD11	1:129:A:GLN:HE22	5	3.02
(1,252)	1:125:A:ILE:HD12	1:129:A:GLN:HE21	5	3.02
(1,252)	1:125:A:ILE:HD12	1:129:A:GLN:HE22	5	3.02
(1,252)	1:125:A:ILE:HD13	1:129:A:GLN:HE21	5	3.02
(1,252)	1:125:A:ILE:HD13	1:129:A:GLN:HE22	5	3.02
(1,1014)	1:88:A:ASN:HD21	1:91:A:LEU:HD21	10	3.01
(1,1014)	1:88:A:ASN:HD21	1:91:A:LEU:HD22	10	3.01
(1,1014)	1:88:A:ASN:HD21	1:91:A:LEU:HD23	10	3.01
(1,1014)	1:88:A:ASN:HD22	1:91:A:LEU:HD21	10	3.01
(1,1014)	1:88:A:ASN:HD22	1:91:A:LEU:HD22	10	3.01
(1,1014)	1:88:A:ASN:HD22	1:91:A:LEU:HD23	10	3.01
(1,1014)	1:88:A:ASN:HD21	1:91:A:LEU:HD21	1	3.0
(1,1014)	1:88:A:ASN:HD21	1:91:A:LEU:HD22	1	3.0
(1,1014)	1:88:A:ASN:HD21	1:91:A:LEU:HD23	1	3.0
(1,1014)	1:88:A:ASN:HD22	1:91:A:LEU:HD21	1	3.0
(1,1014)	1:88:A:ASN:HD22	1:91:A:LEU:HD22	1	3.0
(1,1014)	1:88:A:ASN:HD22	1:91:A:LEU:HD23	1	3.0
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG11	3	2.99
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG12	3	2.99
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG13	3	2.99
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG21	3	2.99
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG22	3	2.99
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG23	3	2.99
(1,663)	1:88:A:ASN:HD21	1:91:A:LEU:HD21	3	2.99
(1,663)	1:88:A:ASN:HD21	1:91:A:LEU:HD22	3	2.99
(1,663)	1:88:A:ASN:HD21	1:91:A:LEU:HD23	3	2.99
(1,663)	1:88:A:ASN:HD21	1:91:A:LEU:HD21	9	2.98
(1,663)	1:88:A:ASN:HD21	1:91:A:LEU:HD22	9	2.98
(1,663)	1:88:A:ASN:HD21	1:91:A:LEU:HD23	9	2.98
(1,1014)	1:88:A:ASN:HD21	1:91:A:LEU:HD21	6	2.96
(1,1014)	1:88:A:ASN:HD21	1:91:A:LEU:HD22	6	2.96
(1,1014)	1:88:A:ASN:HD21	1:91:A:LEU:HD23	6	2.96
(1,1014)	1:88:A:ASN:HD22	1:91:A:LEU:HD21	6	2.96
(1,1014)	1:88:A:ASN:HD22	1:91:A:LEU:HD22	6	2.96
(1,1014)	1:88:A:ASN:HD22	1:91:A:LEU:HD23	6	2.96
(1,1014)	1:88:A:ASN:HD21	1:91:A:LEU:HD21	7	2.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1014)	1:88:A:ASN:HD21	1:91:A:LEU:HD22	7	2.95
(1,1014)	1:88:A:ASN:HD21	1:91:A:LEU:HD23	7	2.95
(1,1014)	1:88:A:ASN:HD22	1:91:A:LEU:HD21	7	2.95
(1,1014)	1:88:A:ASN:HD22	1:91:A:LEU:HD22	7	2.95
(1,1014)	1:88:A:ASN:HD22	1:91:A:LEU:HD23	7	2.95
(1,252)	1:125:A:ILE:HD11	1:129:A:GLN:HE21	6	2.94
(1,252)	1:125:A:ILE:HD11	1:129:A:GLN:HE22	6	2.94
(1,252)	1:125:A:ILE:HD12	1:129:A:GLN:HE21	6	2.94
(1,252)	1:125:A:ILE:HD12	1:129:A:GLN:HE22	6	2.94
(1,252)	1:125:A:ILE:HD13	1:129:A:GLN:HE21	6	2.94
(1,252)	1:125:A:ILE:HD13	1:129:A:GLN:HE22	6	2.94
(1,1014)	1:88:A:ASN:HD21	1:91:A:LEU:HD21	4	2.93
(1,1014)	1:88:A:ASN:HD21	1:91:A:LEU:HD22	4	2.93
(1,1014)	1:88:A:ASN:HD21	1:91:A:LEU:HD23	4	2.93
(1,1014)	1:88:A:ASN:HD22	1:91:A:LEU:HD21	4	2.93
(1,1014)	1:88:A:ASN:HD22	1:91:A:LEU:HD22	4	2.93
(1,1014)	1:88:A:ASN:HD22	1:91:A:LEU:HD23	4	2.93
(1,1014)	1:88:A:ASN:HD21	1:91:A:LEU:HD21	2	2.91
(1,1014)	1:88:A:ASN:HD21	1:91:A:LEU:HD22	2	2.91
(1,1014)	1:88:A:ASN:HD21	1:91:A:LEU:HD23	2	2.91
(1,1014)	1:88:A:ASN:HD22	1:91:A:LEU:HD21	2	2.91
(1,1014)	1:88:A:ASN:HD22	1:91:A:LEU:HD22	2	2.91
(1,1014)	1:88:A:ASN:HD22	1:91:A:LEU:HD23	2	2.91
(1,593)	1:115:A:GLN:H	1:115:A:GLN:HE21	1	2.89
(1,1014)	1:88:A:ASN:HD21	1:91:A:LEU:HD21	3	2.88
(1,1014)	1:88:A:ASN:HD21	1:91:A:LEU:HD22	3	2.88
(1,1014)	1:88:A:ASN:HD21	1:91:A:LEU:HD23	3	2.88
(1,1014)	1:88:A:ASN:HD22	1:91:A:LEU:HD21	3	2.88
(1,1014)	1:88:A:ASN:HD22	1:91:A:LEU:HD22	3	2.88
(1,1014)	1:88:A:ASN:HD22	1:91:A:LEU:HD23	3	2.88
(1,1014)	1:88:A:ASN:HD21	1:91:A:LEU:HD21	9	2.87
(1,1014)	1:88:A:ASN:HD21	1:91:A:LEU:HD22	9	2.87
(1,1014)	1:88:A:ASN:HD21	1:91:A:LEU:HD23	9	2.87
(1,1014)	1:88:A:ASN:HD22	1:91:A:LEU:HD21	9	2.87
(1,1014)	1:88:A:ASN:HD22	1:91:A:LEU:HD22	9	2.87
(1,1014)	1:88:A:ASN:HD22	1:91:A:LEU:HD23	9	2.87
(1,541)	1:97:A:THR:HG21	1:101:A:GLN:HE22	4	2.84
(1,541)	1:97:A:THR:HG22	1:101:A:GLN:HE22	4	2.84
(1,541)	1:97:A:THR:HG23	1:101:A:GLN:HE22	4	2.84
(1,212)	1:128:A:ALA:HB1	1:129:A:GLN:HE21	2	2.78
(1,212)	1:128:A:ALA:HB1	1:129:A:GLN:HE22	2	2.78
(1,212)	1:128:A:ALA:HB2	1:129:A:GLN:HE21	2	2.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,212)	1:128:A:ALA:HB2	1:129:A:GLN:HE22	2	2.78
(1,212)	1:128:A:ALA:HB3	1:129:A:GLN:HE21	2	2.78
(1,212)	1:128:A:ALA:HB3	1:129:A:GLN:HE22	2	2.78
(1,737)	1:33:A:TRP:HE1	1:37:A:VAL:HG11	2	2.76
(1,737)	1:33:A:TRP:HE1	1:37:A:VAL:HG12	2	2.76
(1,737)	1:33:A:TRP:HE1	1:37:A:VAL:HG13	2	2.76
(1,212)	1:128:A:ALA:HB1	1:129:A:GLN:HE21	3	2.74
(1,212)	1:128:A:ALA:HB1	1:129:A:GLN:HE22	3	2.74
(1,212)	1:128:A:ALA:HB2	1:129:A:GLN:HE21	3	2.74
(1,212)	1:128:A:ALA:HB2	1:129:A:GLN:HE22	3	2.74
(1,212)	1:128:A:ALA:HB3	1:129:A:GLN:HE21	3	2.74
(1,212)	1:128:A:ALA:HB3	1:129:A:GLN:HE22	3	2.74
(1,559)	1:97:A:THR:HG21	1:101:A:GLN:HE21	4	2.72
(1,559)	1:97:A:THR:HG22	1:101:A:GLN:HE21	4	2.72
(1,559)	1:97:A:THR:HG23	1:101:A:GLN:HE21	4	2.72
(1,252)	1:125:A:ILE:HD11	1:129:A:GLN:HE21	2	2.61
(1,252)	1:125:A:ILE:HD11	1:129:A:GLN:HE22	2	2.61
(1,252)	1:125:A:ILE:HD12	1:129:A:GLN:HE21	2	2.61
(1,252)	1:125:A:ILE:HD12	1:129:A:GLN:HE22	2	2.61
(1,252)	1:125:A:ILE:HD13	1:129:A:GLN:HE21	2	2.61
(1,252)	1:125:A:ILE:HD13	1:129:A:GLN:HE22	2	2.61
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG11	9	2.57
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG12	9	2.57
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG13	9	2.57
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG21	9	2.57
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG22	9	2.57
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG23	9	2.57
(1,261)	1:124:A:ILE:HD11	1:127:A:GLU:HB3	4	2.53
(1,261)	1:124:A:ILE:HD12	1:127:A:GLU:HB3	4	2.53
(1,261)	1:124:A:ILE:HD13	1:127:A:GLU:HB3	4	2.53
(1,593)	1:115:A:GLN:H	1:115:A:GLN:HE21	7	2.45
(1,737)	1:33:A:TRP:HE1	1:37:A:VAL:HG11	6	2.43
(1,737)	1:33:A:TRP:HE1	1:37:A:VAL:HG12	6	2.43
(1,737)	1:33:A:TRP:HE1	1:37:A:VAL:HG13	6	2.43
(1,593)	1:115:A:GLN:H	1:115:A:GLN:HE21	4	2.42
(1,593)	1:115:A:GLN:H	1:115:A:GLN:HE21	3	2.41
(1,593)	1:115:A:GLN:H	1:115:A:GLN:HE21	9	2.41
(1,593)	1:115:A:GLN:H	1:115:A:GLN:HE21	6	2.39
(1,593)	1:115:A:GLN:H	1:115:A:GLN:HE21	8	2.38
(1,593)	1:115:A:GLN:H	1:115:A:GLN:HE21	2	2.37
(1,261)	1:124:A:ILE:HD11	1:127:A:GLU:HB3	7	2.37
(1,261)	1:124:A:ILE:HD12	1:127:A:GLU:HB3	7	2.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,261)	1:124:A:ILE:HD13	1:127:A:GLU:HB3	7	2.37
(1,737)	1:33:A:TRP:HE1	1:37:A:VAL:HG11	3	2.35
(1,737)	1:33:A:TRP:HE1	1:37:A:VAL:HG12	3	2.35
(1,737)	1:33:A:TRP:HE1	1:37:A:VAL:HG13	3	2.35
(1,593)	1:115:A:GLN:H	1:115:A:GLN:HE21	5	2.34
(1,593)	1:115:A:GLN:H	1:115:A:GLN:HE21	10	2.33
(1,261)	1:124:A:ILE:HD11	1:127:A:GLU:HB3	5	2.33
(1,261)	1:124:A:ILE:HD12	1:127:A:GLU:HB3	5	2.33
(1,261)	1:124:A:ILE:HD13	1:127:A:GLU:HB3	5	2.33
(1,220)	1:95:A:LEU:HG	1:110:A:VAL:HG21	3	2.31
(1,220)	1:95:A:LEU:HG	1:110:A:VAL:HG22	3	2.31
(1,220)	1:95:A:LEU:HG	1:110:A:VAL:HG23	3	2.31
(1,220)	1:95:A:LEU:HG	1:110:A:VAL:HG21	6	2.31
(1,220)	1:95:A:LEU:HG	1:110:A:VAL:HG22	6	2.31
(1,220)	1:95:A:LEU:HG	1:110:A:VAL:HG23	6	2.31
(1,261)	1:124:A:ILE:HD11	1:127:A:GLU:HB3	2	2.29
(1,261)	1:124:A:ILE:HD12	1:127:A:GLU:HB3	2	2.29
(1,261)	1:124:A:ILE:HD13	1:127:A:GLU:HB3	2	2.29
(1,793)	1:6:A:HIS:HB2	1:7:A:GLU:HG2	4	2.27
(1,793)	1:6:A:HIS:HB2	1:7:A:GLU:HG3	4	2.27
(1,793)	1:6:A:HIS:HB3	1:7:A:GLU:HG2	4	2.27
(1,793)	1:6:A:HIS:HB3	1:7:A:GLU:HG3	4	2.27
(1,737)	1:33:A:TRP:HE1	1:37:A:VAL:HG11	9	2.26
(1,737)	1:33:A:TRP:HE1	1:37:A:VAL:HG12	9	2.26
(1,737)	1:33:A:TRP:HE1	1:37:A:VAL:HG13	9	2.26
(1,252)	1:125:A:ILE:HD11	1:129:A:GLN:HE21	3	2.26
(1,252)	1:125:A:ILE:HD11	1:129:A:GLN:HE22	3	2.26
(1,252)	1:125:A:ILE:HD12	1:129:A:GLN:HE21	3	2.26
(1,252)	1:125:A:ILE:HD12	1:129:A:GLN:HE22	3	2.26
(1,252)	1:125:A:ILE:HD13	1:129:A:GLN:HE21	3	2.26
(1,252)	1:125:A:ILE:HD13	1:129:A:GLN:HE22	3	2.26
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG11	4	2.24
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG12	4	2.24
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG13	4	2.24
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG21	4	2.24
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG22	4	2.24
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG23	4	2.24
(1,261)	1:124:A:ILE:HD11	1:127:A:GLU:HB3	9	2.2
(1,261)	1:124:A:ILE:HD12	1:127:A:GLU:HB3	9	2.2
(1,261)	1:124:A:ILE:HD13	1:127:A:GLU:HB3	9	2.2
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD11	10	2.17
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD12	10	2.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD13	10	2.17
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD21	10	2.17
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD22	10	2.17
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD23	10	2.17
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD11	10	2.17
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD12	10	2.17
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD13	10	2.17
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD21	10	2.17
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD22	10	2.17
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD23	10	2.17
(1,793)	1:6:A:HIS:HB2	1:7:A:GLU:HG2	1	2.14
(1,793)	1:6:A:HIS:HB2	1:7:A:GLU:HG3	1	2.14
(1,793)	1:6:A:HIS:HB3	1:7:A:GLU:HG2	1	2.14
(1,793)	1:6:A:HIS:HB3	1:7:A:GLU:HG3	1	2.14
(1,1011)	1:88:A:ASN:HB2	1:91:A:LEU:HD21	8	2.12
(1,1011)	1:88:A:ASN:HB2	1:91:A:LEU:HD22	8	2.12
(1,1011)	1:88:A:ASN:HB2	1:91:A:LEU:HD23	8	2.12
(1,1011)	1:88:A:ASN:HB3	1:91:A:LEU:HD21	8	2.12
(1,1011)	1:88:A:ASN:HB3	1:91:A:LEU:HD22	8	2.12
(1,1011)	1:88:A:ASN:HB3	1:91:A:LEU:HD23	8	2.12
(1,955)	1:54:A:GLN:HG2	1:55:A:LEU:HA	7	2.1
(1,955)	1:54:A:GLN:HG3	1:55:A:LEU:HA	7	2.1
(1,955)	1:54:A:GLN:HG2	1:55:A:LEU:HA	2	2.08
(1,955)	1:54:A:GLN:HG3	1:55:A:LEU:HA	2	2.08
(1,955)	1:54:A:GLN:HG2	1:55:A:LEU:HA	6	2.08
(1,955)	1:54:A:GLN:HG3	1:55:A:LEU:HA	6	2.08
(1,1011)	1:88:A:ASN:HB2	1:91:A:LEU:HD21	5	2.07
(1,1011)	1:88:A:ASN:HB2	1:91:A:LEU:HD22	5	2.07
(1,1011)	1:88:A:ASN:HB2	1:91:A:LEU:HD23	5	2.07
(1,1011)	1:88:A:ASN:HB3	1:91:A:LEU:HD21	5	2.07
(1,1011)	1:88:A:ASN:HB3	1:91:A:LEU:HD22	5	2.07
(1,1011)	1:88:A:ASN:HB3	1:91:A:LEU:HD23	5	2.07
(1,955)	1:54:A:GLN:HG2	1:55:A:LEU:HA	1	2.07
(1,955)	1:54:A:GLN:HG3	1:55:A:LEU:HA	1	2.07
(1,955)	1:54:A:GLN:HG2	1:55:A:LEU:HA	3	2.07
(1,955)	1:54:A:GLN:HG3	1:55:A:LEU:HA	3	2.07
(1,955)	1:54:A:GLN:HG2	1:55:A:LEU:HA	5	2.07
(1,955)	1:54:A:GLN:HG3	1:55:A:LEU:HA	5	2.07
(1,955)	1:54:A:GLN:HG2	1:55:A:LEU:HA	8	2.07
(1,955)	1:54:A:GLN:HG3	1:55:A:LEU:HA	8	2.07
(1,955)	1:54:A:GLN:HG2	1:55:A:LEU:HA	4	2.06
(1,955)	1:54:A:GLN:HG3	1:55:A:LEU:HA	4	2.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1011)	1:88:A:ASN:HB2	1:91:A:LEU:HD21	1	2.04
(1,1011)	1:88:A:ASN:HB2	1:91:A:LEU:HD22	1	2.04
(1,1011)	1:88:A:ASN:HB2	1:91:A:LEU:HD23	1	2.04
(1,1011)	1:88:A:ASN:HB3	1:91:A:LEU:HD21	1	2.04
(1,1011)	1:88:A:ASN:HB3	1:91:A:LEU:HD22	1	2.04
(1,1011)	1:88:A:ASN:HB3	1:91:A:LEU:HD23	1	2.04
(1,1011)	1:88:A:ASN:HB2	1:91:A:LEU:HD21	10	2.04
(1,1011)	1:88:A:ASN:HB2	1:91:A:LEU:HD22	10	2.04
(1,1011)	1:88:A:ASN:HB2	1:91:A:LEU:HD23	10	2.04
(1,1011)	1:88:A:ASN:HB3	1:91:A:LEU:HD21	10	2.04
(1,1011)	1:88:A:ASN:HB3	1:91:A:LEU:HD22	10	2.04
(1,1011)	1:88:A:ASN:HB3	1:91:A:LEU:HD23	10	2.04
(1,955)	1:54:A:GLN:HG2	1:55:A:LEU:HA	10	2.04
(1,955)	1:54:A:GLN:HG3	1:55:A:LEU:HA	10	2.04
(1,797)	1:13:A:SER:HB2	1:15:A:ALA:HB1	4	2.04
(1,797)	1:13:A:SER:HB2	1:15:A:ALA:HB2	4	2.04
(1,797)	1:13:A:SER:HB2	1:15:A:ALA:HB3	4	2.04
(1,797)	1:13:A:SER:HB3	1:15:A:ALA:HB1	4	2.04
(1,797)	1:13:A:SER:HB3	1:15:A:ALA:HB2	4	2.04
(1,797)	1:13:A:SER:HB3	1:15:A:ALA:HB3	4	2.04
(1,1011)	1:88:A:ASN:HB2	1:91:A:LEU:HD21	6	2.02
(1,1011)	1:88:A:ASN:HB2	1:91:A:LEU:HD22	6	2.02
(1,1011)	1:88:A:ASN:HB2	1:91:A:LEU:HD23	6	2.02
(1,1011)	1:88:A:ASN:HB3	1:91:A:LEU:HD21	6	2.02
(1,1011)	1:88:A:ASN:HB3	1:91:A:LEU:HD22	6	2.02
(1,1011)	1:88:A:ASN:HB3	1:91:A:LEU:HD23	6	2.02
(1,212)	1:128:A:ALA:HB1	1:129:A:GLN:HE21	8	2.02
(1,212)	1:128:A:ALA:HB1	1:129:A:GLN:HE22	8	2.02
(1,212)	1:128:A:ALA:HB2	1:129:A:GLN:HE21	8	2.02
(1,212)	1:128:A:ALA:HB2	1:129:A:GLN:HE22	8	2.02
(1,212)	1:128:A:ALA:HB3	1:129:A:GLN:HE21	8	2.02
(1,212)	1:128:A:ALA:HB3	1:129:A:GLN:HE22	8	2.02
(1,1011)	1:88:A:ASN:HB2	1:91:A:LEU:HD21	7	2.0
(1,1011)	1:88:A:ASN:HB2	1:91:A:LEU:HD22	7	2.0
(1,1011)	1:88:A:ASN:HB2	1:91:A:LEU:HD23	7	2.0
(1,1011)	1:88:A:ASN:HB3	1:91:A:LEU:HD21	7	2.0
(1,1011)	1:88:A:ASN:HB3	1:91:A:LEU:HD22	7	2.0
(1,1011)	1:88:A:ASN:HB3	1:91:A:LEU:HD23	7	2.0
(1,1011)	1:88:A:ASN:HB2	1:91:A:LEU:HD21	4	1.99
(1,1011)	1:88:A:ASN:HB2	1:91:A:LEU:HD22	4	1.99
(1,1011)	1:88:A:ASN:HB2	1:91:A:LEU:HD23	4	1.99
(1,1011)	1:88:A:ASN:HB3	1:91:A:LEU:HD21	4	1.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1011)	1:88:A:ASN:HB3	1:91:A:LEU:HD22	4	1.99
(1,1011)	1:88:A:ASN:HB3	1:91:A:LEU:HD23	4	1.99
(1,1011)	1:88:A:ASN:HB2	1:91:A:LEU:HD21	2	1.97
(1,1011)	1:88:A:ASN:HB2	1:91:A:LEU:HD22	2	1.97
(1,1011)	1:88:A:ASN:HB2	1:91:A:LEU:HD23	2	1.97
(1,1011)	1:88:A:ASN:HB3	1:91:A:LEU:HD21	2	1.97
(1,1011)	1:88:A:ASN:HB3	1:91:A:LEU:HD22	2	1.97
(1,1011)	1:88:A:ASN:HB3	1:91:A:LEU:HD23	2	1.97
(1,586)	1:88:A:ASN:H	1:91:A:LEU:HD21	8	1.97
(1,586)	1:88:A:ASN:H	1:91:A:LEU:HD22	8	1.97
(1,586)	1:88:A:ASN:H	1:91:A:LEU:HD23	8	1.97
(1,1011)	1:88:A:ASN:HB2	1:91:A:LEU:HD21	3	1.96
(1,1011)	1:88:A:ASN:HB2	1:91:A:LEU:HD22	3	1.96
(1,1011)	1:88:A:ASN:HB2	1:91:A:LEU:HD23	3	1.96
(1,1011)	1:88:A:ASN:HB3	1:91:A:LEU:HD21	3	1.96
(1,1011)	1:88:A:ASN:HB3	1:91:A:LEU:HD22	3	1.96
(1,1011)	1:88:A:ASN:HB3	1:91:A:LEU:HD23	3	1.96
(1,1011)	1:88:A:ASN:HB2	1:91:A:LEU:HD21	9	1.95
(1,1011)	1:88:A:ASN:HB2	1:91:A:LEU:HD22	9	1.95
(1,1011)	1:88:A:ASN:HB2	1:91:A:LEU:HD23	9	1.95
(1,1011)	1:88:A:ASN:HB3	1:91:A:LEU:HD21	9	1.95
(1,1011)	1:88:A:ASN:HB3	1:91:A:LEU:HD22	9	1.95
(1,1011)	1:88:A:ASN:HB3	1:91:A:LEU:HD23	9	1.95
(1,793)	1:6:A:HIS:HB2	1:7:A:GLU:HG2	10	1.93
(1,793)	1:6:A:HIS:HB2	1:7:A:GLU:HG3	10	1.93
(1,793)	1:6:A:HIS:HB3	1:7:A:GLU:HG2	10	1.93
(1,793)	1:6:A:HIS:HB3	1:7:A:GLU:HG3	10	1.93
(1,586)	1:88:A:ASN:H	1:91:A:LEU:HD21	6	1.91
(1,586)	1:88:A:ASN:H	1:91:A:LEU:HD22	6	1.91
(1,586)	1:88:A:ASN:H	1:91:A:LEU:HD23	6	1.91
(1,586)	1:88:A:ASN:H	1:91:A:LEU:HD21	10	1.89
(1,586)	1:88:A:ASN:H	1:91:A:LEU:HD22	10	1.89
(1,586)	1:88:A:ASN:H	1:91:A:LEU:HD23	10	1.89
(1,797)	1:13:A:SER:HB2	1:15:A:ALA:HB1	3	1.88
(1,797)	1:13:A:SER:HB2	1:15:A:ALA:HB2	3	1.88
(1,797)	1:13:A:SER:HB2	1:15:A:ALA:HB3	3	1.88
(1,797)	1:13:A:SER:HB3	1:15:A:ALA:HB1	3	1.88
(1,797)	1:13:A:SER:HB3	1:15:A:ALA:HB2	3	1.88
(1,797)	1:13:A:SER:HB3	1:15:A:ALA:HB3	3	1.88
(1,586)	1:88:A:ASN:H	1:91:A:LEU:HD21	2	1.88
(1,586)	1:88:A:ASN:H	1:91:A:LEU:HD22	2	1.88
(1,586)	1:88:A:ASN:H	1:91:A:LEU:HD23	2	1.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,201)	1:6:A:HIS:HA	1:7:A:GLU:HG2	1	1.88
(1,201)	1:6:A:HIS:HA	1:7:A:GLU:HG3	1	1.88
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG11	1	1.87
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG12	1	1.87
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG13	1	1.87
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG21	1	1.87
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG22	1	1.87
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG23	1	1.87
(1,586)	1:88:A:ASN:H	1:91:A:LEU:HD21	3	1.87
(1,586)	1:88:A:ASN:H	1:91:A:LEU:HD22	3	1.87
(1,586)	1:88:A:ASN:H	1:91:A:LEU:HD23	3	1.87
(1,737)	1:33:A:TRP:HE1	1:37:A:VAL:HG11	4	1.86
(1,737)	1:33:A:TRP:HE1	1:37:A:VAL:HG12	4	1.86
(1,737)	1:33:A:TRP:HE1	1:37:A:VAL:HG13	4	1.86
(1,586)	1:88:A:ASN:H	1:91:A:LEU:HD21	1	1.86
(1,586)	1:88:A:ASN:H	1:91:A:LEU:HD22	1	1.86
(1,586)	1:88:A:ASN:H	1:91:A:LEU:HD23	1	1.86
(1,586)	1:88:A:ASN:H	1:91:A:LEU:HD21	5	1.86
(1,586)	1:88:A:ASN:H	1:91:A:LEU:HD22	5	1.86
(1,586)	1:88:A:ASN:H	1:91:A:LEU:HD23	5	1.86
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG11	6	1.85
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG12	6	1.85
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG13	6	1.85
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG21	6	1.85
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG22	6	1.85
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG23	6	1.85
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG11	7	1.85
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG12	7	1.85
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG13	7	1.85
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG21	7	1.85
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG22	7	1.85
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG23	7	1.85
(1,987)	1:76:A:GLU:HA	1:79:A:ARG:HD2	8	1.84
(1,987)	1:76:A:GLU:HA	1:79:A:ARG:HD3	8	1.84
(1,586)	1:88:A:ASN:H	1:91:A:LEU:HD21	9	1.84
(1,586)	1:88:A:ASN:H	1:91:A:LEU:HD22	9	1.84
(1,586)	1:88:A:ASN:H	1:91:A:LEU:HD23	9	1.84
(1,586)	1:88:A:ASN:H	1:91:A:LEU:HD21	7	1.83
(1,586)	1:88:A:ASN:H	1:91:A:LEU:HD22	7	1.83
(1,586)	1:88:A:ASN:H	1:91:A:LEU:HD23	7	1.83
(1,212)	1:128:A:ALA:HB1	1:129:A:GLN:HE21	1	1.83
(1,212)	1:128:A:ALA:HB1	1:129:A:GLN:HE22	1	1.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,212)	1:128:A:ALA:HB2	1:129:A:GLN:HE21	1	1.83
(1,212)	1:128:A:ALA:HB2	1:129:A:GLN:HE22	1	1.83
(1,212)	1:128:A:ALA:HB3	1:129:A:GLN:HE21	1	1.83
(1,212)	1:128:A:ALA:HB3	1:129:A:GLN:HE22	1	1.83
(1,586)	1:88:A:ASN:H	1:91:A:LEU:HD21	4	1.82
(1,586)	1:88:A:ASN:H	1:91:A:LEU:HD22	4	1.82
(1,586)	1:88:A:ASN:H	1:91:A:LEU:HD23	4	1.82
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG11	5	1.79
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG12	5	1.79
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG13	5	1.79
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG21	5	1.79
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG22	5	1.79
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG23	5	1.79
(1,212)	1:128:A:ALA:HB1	1:129:A:GLN:HE21	6	1.78
(1,212)	1:128:A:ALA:HB1	1:129:A:GLN:HE22	6	1.78
(1,212)	1:128:A:ALA:HB2	1:129:A:GLN:HE21	6	1.78
(1,212)	1:128:A:ALA:HB2	1:129:A:GLN:HE22	6	1.78
(1,212)	1:128:A:ALA:HB3	1:129:A:GLN:HE21	6	1.78
(1,212)	1:128:A:ALA:HB3	1:129:A:GLN:HE22	6	1.78
(1,212)	1:128:A:ALA:HB1	1:129:A:GLN:HE21	7	1.77
(1,212)	1:128:A:ALA:HB1	1:129:A:GLN:HE22	7	1.77
(1,212)	1:128:A:ALA:HB2	1:129:A:GLN:HE21	7	1.77
(1,212)	1:128:A:ALA:HB2	1:129:A:GLN:HE22	7	1.77
(1,212)	1:128:A:ALA:HB3	1:129:A:GLN:HE21	7	1.77
(1,212)	1:128:A:ALA:HB3	1:129:A:GLN:HE22	7	1.77
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG11	8	1.73
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG12	8	1.73
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG13	8	1.73
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG21	8	1.73
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG22	8	1.73
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG23	8	1.73
(1,112)	1:124:A:ILE:HG21	1:127:A:GLU:HB3	3	1.73
(1,112)	1:124:A:ILE:HG22	1:127:A:GLU:HB3	3	1.73
(1,112)	1:124:A:ILE:HG23	1:127:A:GLU:HB3	3	1.73
(1,112)	1:124:A:ILE:HG21	1:127:A:GLU:HB3	4	1.71
(1,112)	1:124:A:ILE:HG22	1:127:A:GLU:HB3	4	1.71
(1,112)	1:124:A:ILE:HG23	1:127:A:GLU:HB3	4	1.71
(1,737)	1:33:A:TRP:HE1	1:37:A:VAL:HG11	7	1.7
(1,737)	1:33:A:TRP:HE1	1:37:A:VAL:HG12	7	1.7
(1,737)	1:33:A:TRP:HE1	1:37:A:VAL:HG13	7	1.7
(1,737)	1:33:A:TRP:HE1	1:37:A:VAL:HG11	8	1.7
(1,737)	1:33:A:TRP:HE1	1:37:A:VAL:HG12	8	1.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,737)	1:33:A:TRP:HE1	1:37:A:VAL:HG13	8	1.7
(1,797)	1:13:A:SER:HB2	1:15:A:ALA:HB1	6	1.69
(1,797)	1:13:A:SER:HB2	1:15:A:ALA:HB2	6	1.69
(1,797)	1:13:A:SER:HB2	1:15:A:ALA:HB3	6	1.69
(1,797)	1:13:A:SER:HB3	1:15:A:ALA:HB1	6	1.69
(1,797)	1:13:A:SER:HB3	1:15:A:ALA:HB2	6	1.69
(1,797)	1:13:A:SER:HB3	1:15:A:ALA:HB3	6	1.69
(1,797)	1:13:A:SER:HB2	1:15:A:ALA:HB1	2	1.68
(1,797)	1:13:A:SER:HB2	1:15:A:ALA:HB2	2	1.68
(1,797)	1:13:A:SER:HB2	1:15:A:ALA:HB3	2	1.68
(1,797)	1:13:A:SER:HB3	1:15:A:ALA:HB1	2	1.68
(1,797)	1:13:A:SER:HB3	1:15:A:ALA:HB2	2	1.68
(1,797)	1:13:A:SER:HB3	1:15:A:ALA:HB3	2	1.68
(1,853)	1:31:A:VAL:HG11	1:35:A:ARG:HD2	1	1.67
(1,853)	1:31:A:VAL:HG11	1:35:A:ARG:HD3	1	1.67
(1,853)	1:31:A:VAL:HG12	1:35:A:ARG:HD2	1	1.67
(1,853)	1:31:A:VAL:HG12	1:35:A:ARG:HD3	1	1.67
(1,853)	1:31:A:VAL:HG13	1:35:A:ARG:HD2	1	1.67
(1,853)	1:31:A:VAL:HG13	1:35:A:ARG:HD3	1	1.67
(1,853)	1:31:A:VAL:HG21	1:35:A:ARG:HD2	1	1.67
(1,853)	1:31:A:VAL:HG21	1:35:A:ARG:HD3	1	1.67
(1,853)	1:31:A:VAL:HG22	1:35:A:ARG:HD2	1	1.67
(1,853)	1:31:A:VAL:HG22	1:35:A:ARG:HD3	1	1.67
(1,853)	1:31:A:VAL:HG23	1:35:A:ARG:HD2	1	1.67
(1,853)	1:31:A:VAL:HG23	1:35:A:ARG:HD3	1	1.67
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG11	10	1.66
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG12	10	1.66
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG13	10	1.66
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG21	10	1.66
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG22	10	1.66
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG23	10	1.66
(1,1022)	1:91:A:LEU:HG	1:92:A:PHE:HB2	3	1.65
(1,1022)	1:91:A:LEU:HG	1:92:A:PHE:HB3	3	1.65
(1,834)	1:24:A:LYS:HG2	1:25:A:LEU:HB2	1	1.65
(1,834)	1:24:A:LYS:HG2	1:25:A:LEU:HB3	1	1.65
(1,834)	1:24:A:LYS:HG3	1:25:A:LEU:HB2	1	1.65
(1,834)	1:24:A:LYS:HG3	1:25:A:LEU:HB3	1	1.65
(1,834)	1:24:A:LYS:HG2	1:25:A:LEU:HB2	3	1.65
(1,834)	1:24:A:LYS:HG2	1:25:A:LEU:HB3	3	1.65
(1,834)	1:24:A:LYS:HG3	1:25:A:LEU:HB2	3	1.65
(1,834)	1:24:A:LYS:HG3	1:25:A:LEU:HB3	3	1.65
(1,834)	1:24:A:LYS:HG2	1:25:A:LEU:HB2	5	1.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,834)	1:24:A:LYS:HG2	1:25:A:LEU:HB3	5	1.65
(1,834)	1:24:A:LYS:HG3	1:25:A:LEU:HB2	5	1.65
(1,834)	1:24:A:LYS:HG3	1:25:A:LEU:HB3	5	1.65
(1,834)	1:24:A:LYS:HG2	1:25:A:LEU:HB2	8	1.65
(1,834)	1:24:A:LYS:HG2	1:25:A:LEU:HB3	8	1.65
(1,834)	1:24:A:LYS:HG3	1:25:A:LEU:HB2	8	1.65
(1,834)	1:24:A:LYS:HG3	1:25:A:LEU:HB3	8	1.65
(1,797)	1:13:A:SER:HB2	1:15:A:ALA:HB1	8	1.65
(1,797)	1:13:A:SER:HB2	1:15:A:ALA:HB2	8	1.65
(1,797)	1:13:A:SER:HB2	1:15:A:ALA:HB3	8	1.65
(1,797)	1:13:A:SER:HB3	1:15:A:ALA:HB1	8	1.65
(1,797)	1:13:A:SER:HB3	1:15:A:ALA:HB2	8	1.65
(1,797)	1:13:A:SER:HB3	1:15:A:ALA:HB3	8	1.65
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD11	3	1.64
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD12	3	1.64
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD13	3	1.64
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD21	3	1.64
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD22	3	1.64
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD23	3	1.64
(1,834)	1:24:A:LYS:HG2	1:25:A:LEU:HB2	4	1.64
(1,834)	1:24:A:LYS:HG2	1:25:A:LEU:HB3	4	1.64
(1,834)	1:24:A:LYS:HG3	1:25:A:LEU:HB2	4	1.64
(1,834)	1:24:A:LYS:HG3	1:25:A:LEU:HB3	4	1.64
(1,797)	1:13:A:SER:HB2	1:15:A:ALA:HB1	7	1.64
(1,797)	1:13:A:SER:HB2	1:15:A:ALA:HB2	7	1.64
(1,797)	1:13:A:SER:HB2	1:15:A:ALA:HB3	7	1.64
(1,797)	1:13:A:SER:HB3	1:15:A:ALA:HB1	7	1.64
(1,797)	1:13:A:SER:HB3	1:15:A:ALA:HB2	7	1.64
(1,797)	1:13:A:SER:HB3	1:15:A:ALA:HB3	7	1.64
(1,797)	1:13:A:SER:HB2	1:15:A:ALA:HB1	9	1.64
(1,797)	1:13:A:SER:HB2	1:15:A:ALA:HB2	9	1.64
(1,797)	1:13:A:SER:HB2	1:15:A:ALA:HB3	9	1.64
(1,797)	1:13:A:SER:HB3	1:15:A:ALA:HB1	9	1.64
(1,797)	1:13:A:SER:HB3	1:15:A:ALA:HB2	9	1.64
(1,797)	1:13:A:SER:HB3	1:15:A:ALA:HB3	9	1.64
(1,212)	1:128:A:ALA:HB1	1:129:A:GLN:HE21	9	1.64
(1,212)	1:128:A:ALA:HB1	1:129:A:GLN:HE22	9	1.64
(1,212)	1:128:A:ALA:HB2	1:129:A:GLN:HE21	9	1.64
(1,212)	1:128:A:ALA:HB2	1:129:A:GLN:HE22	9	1.64
(1,212)	1:128:A:ALA:HB3	1:129:A:GLN:HE21	9	1.64
(1,212)	1:128:A:ALA:HB3	1:129:A:GLN:HE22	9	1.64
(1,834)	1:24:A:LYS:HG2	1:25:A:LEU:HB2	7	1.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,834)	1:24:A:LYS:HG2	1:25:A:LEU:HB3	7	1.63
(1,834)	1:24:A:LYS:HG3	1:25:A:LEU:HB2	7	1.63
(1,834)	1:24:A:LYS:HG3	1:25:A:LEU:HB3	7	1.63
(1,797)	1:13:A:SER:HB2	1:15:A:ALA:HB1	1	1.63
(1,797)	1:13:A:SER:HB2	1:15:A:ALA:HB2	1	1.63
(1,797)	1:13:A:SER:HB2	1:15:A:ALA:HB3	1	1.63
(1,797)	1:13:A:SER:HB3	1:15:A:ALA:HB1	1	1.63
(1,797)	1:13:A:SER:HB3	1:15:A:ALA:HB2	1	1.63
(1,797)	1:13:A:SER:HB3	1:15:A:ALA:HB3	1	1.63
(1,793)	1:6:A:HIS:HB2	1:7:A:GLU:HG2	7	1.63
(1,793)	1:6:A:HIS:HB2	1:7:A:GLU:HG3	7	1.63
(1,793)	1:6:A:HIS:HB3	1:7:A:GLU:HG2	7	1.63
(1,793)	1:6:A:HIS:HB3	1:7:A:GLU:HG3	7	1.63
(1,737)	1:33:A:TRP:HE1	1:37:A:VAL:HG11	1	1.63
(1,737)	1:33:A:TRP:HE1	1:37:A:VAL:HG12	1	1.63
(1,737)	1:33:A:TRP:HE1	1:37:A:VAL:HG13	1	1.63
(1,834)	1:24:A:LYS:HG2	1:25:A:LEU:HB2	2	1.62
(1,834)	1:24:A:LYS:HG2	1:25:A:LEU:HB3	2	1.62
(1,834)	1:24:A:LYS:HG3	1:25:A:LEU:HB2	2	1.62
(1,834)	1:24:A:LYS:HG3	1:25:A:LEU:HB3	2	1.62
(1,834)	1:24:A:LYS:HG2	1:25:A:LEU:HB2	10	1.62
(1,834)	1:24:A:LYS:HG2	1:25:A:LEU:HB3	10	1.62
(1,834)	1:24:A:LYS:HG3	1:25:A:LEU:HB2	10	1.62
(1,834)	1:24:A:LYS:HG3	1:25:A:LEU:HB3	10	1.62
(1,1022)	1:91:A:LEU:HG	1:92:A:PHE:HB2	7	1.61
(1,1022)	1:91:A:LEU:HG	1:92:A:PHE:HB3	7	1.61
(1,1022)	1:91:A:LEU:HG	1:92:A:PHE:HB2	10	1.61
(1,1022)	1:91:A:LEU:HG	1:92:A:PHE:HB3	10	1.61
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD11	3	1.61
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD12	3	1.61
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD13	3	1.61
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD21	3	1.61
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD22	3	1.61
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD23	3	1.61
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD11	3	1.61
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD12	3	1.61
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD13	3	1.61
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD21	3	1.61
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD22	3	1.61
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD23	3	1.61
(1,834)	1:24:A:LYS:HG2	1:25:A:LEU:HB2	9	1.61
(1,834)	1:24:A:LYS:HG2	1:25:A:LEU:HB3	9	1.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,834)	1:24:A:LYS:HG3	1:25:A:LEU:HB2	9	1.61
(1,834)	1:24:A:LYS:HG3	1:25:A:LEU:HB3	9	1.61
(1,212)	1:128:A:ALA:HB1	1:129:A:GLN:HE21	5	1.61
(1,212)	1:128:A:ALA:HB1	1:129:A:GLN:HE22	5	1.61
(1,212)	1:128:A:ALA:HB2	1:129:A:GLN:HE21	5	1.61
(1,212)	1:128:A:ALA:HB2	1:129:A:GLN:HE22	5	1.61
(1,212)	1:128:A:ALA:HB3	1:129:A:GLN:HE21	5	1.61
(1,212)	1:128:A:ALA:HB3	1:129:A:GLN:HE22	5	1.61
(1,1067)	1:107:A:ALA:HB1	1:108:A:LYS:HG2	8	1.6
(1,1067)	1:107:A:ALA:HB1	1:108:A:LYS:HG3	8	1.6
(1,1067)	1:107:A:ALA:HB2	1:108:A:LYS:HG2	8	1.6
(1,1067)	1:107:A:ALA:HB2	1:108:A:LYS:HG3	8	1.6
(1,1067)	1:107:A:ALA:HB3	1:108:A:LYS:HG2	8	1.6
(1,1067)	1:107:A:ALA:HB3	1:108:A:LYS:HG3	8	1.6
(1,1022)	1:91:A:LEU:HG	1:92:A:PHE:HB2	6	1.6
(1,1022)	1:91:A:LEU:HG	1:92:A:PHE:HB3	6	1.6
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD11	2	1.6
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD12	2	1.6
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD13	2	1.6
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD21	2	1.6
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD22	2	1.6
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD23	2	1.6
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD11	2	1.6
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD12	2	1.6
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD13	2	1.6
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD21	2	1.6
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD22	2	1.6
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD23	2	1.6
(1,797)	1:13:A:SER:HB2	1:15:A:ALA:HB1	10	1.6
(1,797)	1:13:A:SER:HB2	1:15:A:ALA:HB2	10	1.6
(1,797)	1:13:A:SER:HB2	1:15:A:ALA:HB3	10	1.6
(1,797)	1:13:A:SER:HB3	1:15:A:ALA:HB1	10	1.6
(1,797)	1:13:A:SER:HB3	1:15:A:ALA:HB2	10	1.6
(1,797)	1:13:A:SER:HB3	1:15:A:ALA:HB3	10	1.6
(1,1067)	1:107:A:ALA:HB1	1:108:A:LYS:HG2	7	1.59
(1,1067)	1:107:A:ALA:HB1	1:108:A:LYS:HG3	7	1.59
(1,1067)	1:107:A:ALA:HB2	1:108:A:LYS:HG2	7	1.59
(1,1067)	1:107:A:ALA:HB2	1:108:A:LYS:HG3	7	1.59
(1,1067)	1:107:A:ALA:HB3	1:108:A:LYS:HG2	7	1.59
(1,1067)	1:107:A:ALA:HB3	1:108:A:LYS:HG3	7	1.59
(1,1067)	1:107:A:ALA:HB1	1:108:A:LYS:HG2	9	1.59
(1,1067)	1:107:A:ALA:HB1	1:108:A:LYS:HG3	9	1.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1067)	1:107:A:ALA:HB2	1:108:A:LYS:HG2	9	1.59
(1,1067)	1:107:A:ALA:HB2	1:108:A:LYS:HG3	9	1.59
(1,1067)	1:107:A:ALA:HB3	1:108:A:LYS:HG2	9	1.59
(1,1067)	1:107:A:ALA:HB3	1:108:A:LYS:HG3	9	1.59
(1,1022)	1:91:A:LEU:HG	1:92:A:PHE:HB2	1	1.59
(1,1022)	1:91:A:LEU:HG	1:92:A:PHE:HB3	1	1.59
(1,1022)	1:91:A:LEU:HG	1:92:A:PHE:HB2	5	1.59
(1,1022)	1:91:A:LEU:HG	1:92:A:PHE:HB3	5	1.59
(1,797)	1:13:A:SER:HB2	1:15:A:ALA:HB1	5	1.59
(1,797)	1:13:A:SER:HB2	1:15:A:ALA:HB2	5	1.59
(1,797)	1:13:A:SER:HB2	1:15:A:ALA:HB3	5	1.59
(1,797)	1:13:A:SER:HB3	1:15:A:ALA:HB1	5	1.59
(1,797)	1:13:A:SER:HB3	1:15:A:ALA:HB2	5	1.59
(1,797)	1:13:A:SER:HB3	1:15:A:ALA:HB3	5	1.59
(1,696)	1:129:A:GLN:H	1:129:A:GLN:HE21	3	1.59
(1,696)	1:129:A:GLN:H	1:129:A:GLN:HE22	3	1.59
(1,1067)	1:107:A:ALA:HB1	1:108:A:LYS:HG2	1	1.58
(1,1067)	1:107:A:ALA:HB1	1:108:A:LYS:HG3	1	1.58
(1,1067)	1:107:A:ALA:HB2	1:108:A:LYS:HG2	1	1.58
(1,1067)	1:107:A:ALA:HB2	1:108:A:LYS:HG3	1	1.58
(1,1067)	1:107:A:ALA:HB3	1:108:A:LYS:HG2	1	1.58
(1,1067)	1:107:A:ALA:HB3	1:108:A:LYS:HG3	1	1.58
(1,1067)	1:107:A:ALA:HB1	1:108:A:LYS:HG2	2	1.58
(1,1067)	1:107:A:ALA:HB1	1:108:A:LYS:HG3	2	1.58
(1,1067)	1:107:A:ALA:HB2	1:108:A:LYS:HG2	2	1.58
(1,1067)	1:107:A:ALA:HB2	1:108:A:LYS:HG3	2	1.58
(1,1067)	1:107:A:ALA:HB3	1:108:A:LYS:HG2	2	1.58
(1,1067)	1:107:A:ALA:HB3	1:108:A:LYS:HG3	2	1.58
(1,1022)	1:91:A:LEU:HG	1:92:A:PHE:HB2	2	1.58
(1,1022)	1:91:A:LEU:HG	1:92:A:PHE:HB3	2	1.58
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD11	6	1.58
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD12	6	1.58
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD13	6	1.58
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD21	6	1.58
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD22	6	1.58
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD23	6	1.58
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD11	6	1.58
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD12	6	1.58
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD13	6	1.58
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD21	6	1.58
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD22	6	1.58
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD23	6	1.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,213)	1:36:A:LEU:H	1:51:A:LEU:HG	2	1.58
(1,1067)	1:107:A:ALA:HB1	1:108:A:LYS:HG2	5	1.57
(1,1067)	1:107:A:ALA:HB1	1:108:A:LYS:HG3	5	1.57
(1,1067)	1:107:A:ALA:HB2	1:108:A:LYS:HG2	5	1.57
(1,1067)	1:107:A:ALA:HB2	1:108:A:LYS:HG3	5	1.57
(1,1067)	1:107:A:ALA:HB3	1:108:A:LYS:HG2	5	1.57
(1,1067)	1:107:A:ALA:HB3	1:108:A:LYS:HG3	5	1.57
(1,1067)	1:107:A:ALA:HB1	1:108:A:LYS:HG2	6	1.57
(1,1067)	1:107:A:ALA:HB1	1:108:A:LYS:HG3	6	1.57
(1,1067)	1:107:A:ALA:HB2	1:108:A:LYS:HG2	6	1.57
(1,1067)	1:107:A:ALA:HB2	1:108:A:LYS:HG3	6	1.57
(1,1067)	1:107:A:ALA:HB3	1:108:A:LYS:HG2	6	1.57
(1,1067)	1:107:A:ALA:HB3	1:108:A:LYS:HG3	6	1.57
(1,1067)	1:107:A:ALA:HB1	1:108:A:LYS:HG2	10	1.57
(1,1067)	1:107:A:ALA:HB1	1:108:A:LYS:HG3	10	1.57
(1,1067)	1:107:A:ALA:HB2	1:108:A:LYS:HG2	10	1.57
(1,1067)	1:107:A:ALA:HB2	1:108:A:LYS:HG3	10	1.57
(1,1067)	1:107:A:ALA:HB3	1:108:A:LYS:HG2	10	1.57
(1,1067)	1:107:A:ALA:HB3	1:108:A:LYS:HG3	10	1.57
(1,1022)	1:91:A:LEU:HG	1:92:A:PHE:HB2	4	1.57
(1,1022)	1:91:A:LEU:HG	1:92:A:PHE:HB3	4	1.57
(1,1022)	1:91:A:LEU:HG	1:92:A:PHE:HB2	9	1.57
(1,1022)	1:91:A:LEU:HG	1:92:A:PHE:HB3	9	1.57
(1,1005)	1:85:A:PHE:H	1:86:A:GLN:HG2	8	1.57
(1,1005)	1:85:A:PHE:H	1:86:A:GLN:HG3	8	1.57
(1,696)	1:129:A:GLN:H	1:129:A:GLN:HE21	2	1.57
(1,696)	1:129:A:GLN:H	1:129:A:GLN:HE22	2	1.57
(1,279)	1:62:A:VAL:H	1:63:A:GLU:HG2	2	1.57
(1,279)	1:62:A:VAL:H	1:63:A:GLU:HG3	2	1.57
(1,251)	1:125:A:ILE:HG21	1:129:A:GLN:HE21	1	1.57
(1,251)	1:125:A:ILE:HG21	1:129:A:GLN:HE22	1	1.57
(1,251)	1:125:A:ILE:HG22	1:129:A:GLN:HE21	1	1.57
(1,251)	1:125:A:ILE:HG22	1:129:A:GLN:HE22	1	1.57
(1,251)	1:125:A:ILE:HG23	1:129:A:GLN:HE21	1	1.57
(1,251)	1:125:A:ILE:HG23	1:129:A:GLN:HE22	1	1.57
(1,112)	1:124:A:ILE:HG21	1:127:A:GLU:HB3	1	1.57
(1,112)	1:124:A:ILE:HG22	1:127:A:GLU:HB3	1	1.57
(1,112)	1:124:A:ILE:HG23	1:127:A:GLU:HB3	1	1.57
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD11	4	1.56
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD12	4	1.56
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD13	4	1.56
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD21	4	1.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD22	4	1.56
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD23	4	1.56
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD11	4	1.56
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD12	4	1.56
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD13	4	1.56
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD21	4	1.56
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD22	4	1.56
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD23	4	1.56
(1,279)	1:62:A:VAL:H	1:63:A:GLU:HG2	10	1.56
(1,279)	1:62:A:VAL:H	1:63:A:GLU:HG3	10	1.56
(1,226)	1:46:A:SER:H	1:47:A:THR:HG21	6	1.56
(1,226)	1:46:A:SER:H	1:47:A:THR:HG22	6	1.56
(1,226)	1:46:A:SER:H	1:47:A:THR:HG23	6	1.56
(1,112)	1:124:A:ILE:HG21	1:127:A:GLU:HB3	10	1.56
(1,112)	1:124:A:ILE:HG22	1:127:A:GLU:HB3	10	1.56
(1,112)	1:124:A:ILE:HG23	1:127:A:GLU:HB3	10	1.56
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD11	8	1.55
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD12	8	1.55
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD13	8	1.55
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD21	8	1.55
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD22	8	1.55
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD23	8	1.55
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD11	8	1.55
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD12	8	1.55
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD13	8	1.55
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD21	8	1.55
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD22	8	1.55
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD23	8	1.55
(1,279)	1:62:A:VAL:H	1:63:A:GLU:HG2	1	1.55
(1,279)	1:62:A:VAL:H	1:63:A:GLU:HG3	1	1.55
(1,279)	1:62:A:VAL:H	1:63:A:GLU:HG2	5	1.55
(1,279)	1:62:A:VAL:H	1:63:A:GLU:HG3	5	1.55
(1,279)	1:62:A:VAL:H	1:63:A:GLU:HG2	6	1.55
(1,279)	1:62:A:VAL:H	1:63:A:GLU:HG3	6	1.55
(1,1067)	1:107:A:ALA:HB1	1:108:A:LYS:HG2	3	1.54
(1,1067)	1:107:A:ALA:HB1	1:108:A:LYS:HG3	3	1.54
(1,1067)	1:107:A:ALA:HB2	1:108:A:LYS:HG2	3	1.54
(1,1067)	1:107:A:ALA:HB2	1:108:A:LYS:HG3	3	1.54
(1,1067)	1:107:A:ALA:HB3	1:108:A:LYS:HG2	3	1.54
(1,1067)	1:107:A:ALA:HB3	1:108:A:LYS:HG3	3	1.54
(1,1067)	1:107:A:ALA:HB1	1:108:A:LYS:HG2	4	1.54
(1,1067)	1:107:A:ALA:HB1	1:108:A:LYS:HG3	4	1.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1067)	1:107:A:ALA:HB2	1:108:A:LYS:HG2	4	1.54
(1,1067)	1:107:A:ALA:HB2	1:108:A:LYS:HG3	4	1.54
(1,1067)	1:107:A:ALA:HB3	1:108:A:LYS:HG2	4	1.54
(1,1067)	1:107:A:ALA:HB3	1:108:A:LYS:HG3	4	1.54
(1,1022)	1:91:A:LEU:HG	1:92:A:PHE:HB2	8	1.54
(1,1022)	1:91:A:LEU:HG	1:92:A:PHE:HB3	8	1.54
(1,279)	1:62:A:VAL:H	1:63:A:GLU:HG2	3	1.54
(1,279)	1:62:A:VAL:H	1:63:A:GLU:HG3	3	1.54
(1,279)	1:62:A:VAL:H	1:63:A:GLU:HG2	4	1.54
(1,279)	1:62:A:VAL:H	1:63:A:GLU:HG3	4	1.54
(1,279)	1:62:A:VAL:H	1:63:A:GLU:HG2	7	1.54
(1,279)	1:62:A:VAL:H	1:63:A:GLU:HG3	7	1.54
(1,112)	1:124:A:ILE:HG21	1:127:A:GLU:HB3	8	1.52
(1,112)	1:124:A:ILE:HG22	1:127:A:GLU:HB3	8	1.52
(1,112)	1:124:A:ILE:HG23	1:127:A:GLU:HB3	8	1.52
(1,213)	1:36:A:LEU:H	1:51:A:LEU:HG	6	1.51
(1,213)	1:36:A:LEU:H	1:51:A:LEU:HG	9	1.51
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD11	1	1.49
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD12	1	1.49
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD13	1	1.49
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD21	1	1.49
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD22	1	1.49
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD23	1	1.49
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD11	1	1.49
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD12	1	1.49
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD13	1	1.49
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD21	1	1.49
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD22	1	1.49
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD23	1	1.49
(1,288)	1:91:A:LEU:HD11	1:92:A:PHE:HA	1	1.49
(1,288)	1:91:A:LEU:HD12	1:92:A:PHE:HA	1	1.49
(1,288)	1:91:A:LEU:HD13	1:92:A:PHE:HA	1	1.49
(1,288)	1:91:A:LEU:HD11	1:92:A:PHE:HA	5	1.49
(1,288)	1:91:A:LEU:HD12	1:92:A:PHE:HA	5	1.49
(1,288)	1:91:A:LEU:HD13	1:92:A:PHE:HA	5	1.49
(1,279)	1:62:A:VAL:H	1:63:A:GLU:HG2	9	1.49
(1,279)	1:62:A:VAL:H	1:63:A:GLU:HG3	9	1.49
(1,226)	1:46:A:SER:H	1:47:A:THR:HG21	8	1.49
(1,226)	1:46:A:SER:H	1:47:A:THR:HG22	8	1.49
(1,226)	1:46:A:SER:H	1:47:A:THR:HG23	8	1.49
(1,213)	1:36:A:LEU:H	1:51:A:LEU:HG	3	1.49
(1,213)	1:36:A:LEU:H	1:51:A:LEU:HG	4	1.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,288)	1:91:A:LEU:HD11	1:92:A:PHE:HA	7	1.48
(1,288)	1:91:A:LEU:HD12	1:92:A:PHE:HA	7	1.48
(1,288)	1:91:A:LEU:HD13	1:92:A:PHE:HA	7	1.48
(1,288)	1:91:A:LEU:HD11	1:92:A:PHE:HA	9	1.48
(1,288)	1:91:A:LEU:HD12	1:92:A:PHE:HA	9	1.48
(1,288)	1:91:A:LEU:HD13	1:92:A:PHE:HA	9	1.48
(1,288)	1:91:A:LEU:HD11	1:92:A:PHE:HA	10	1.48
(1,288)	1:91:A:LEU:HD12	1:92:A:PHE:HA	10	1.48
(1,288)	1:91:A:LEU:HD13	1:92:A:PHE:HA	10	1.48
(1,1111)	1:129:A:GLN:HB2	1:130:A:LYS:HD2	5	1.47
(1,1111)	1:129:A:GLN:HB2	1:130:A:LYS:HD3	5	1.47
(1,1111)	1:129:A:GLN:HB3	1:130:A:LYS:HD2	5	1.47
(1,1111)	1:129:A:GLN:HB3	1:130:A:LYS:HD3	5	1.47
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD11	5	1.47
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD12	5	1.47
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD13	5	1.47
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD21	5	1.47
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD22	5	1.47
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD23	5	1.47
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD11	5	1.47
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD12	5	1.47
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD13	5	1.47
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD21	5	1.47
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD22	5	1.47
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD23	5	1.47
(1,288)	1:91:A:LEU:HD11	1:92:A:PHE:HA	2	1.47
(1,288)	1:91:A:LEU:HD12	1:92:A:PHE:HA	2	1.47
(1,288)	1:91:A:LEU:HD13	1:92:A:PHE:HA	2	1.47
(1,226)	1:46:A:SER:H	1:47:A:THR:HG21	2	1.47
(1,226)	1:46:A:SER:H	1:47:A:THR:HG22	2	1.47
(1,226)	1:46:A:SER:H	1:47:A:THR:HG23	2	1.47
(1,213)	1:36:A:LEU:H	1:51:A:LEU:HG	10	1.47
(1,782)	1:115:A:GLN:H	1:115:A:GLN:HE22	1	1.45
(1,288)	1:91:A:LEU:HD11	1:92:A:PHE:HA	4	1.45
(1,288)	1:91:A:LEU:HD12	1:92:A:PHE:HA	4	1.45
(1,288)	1:91:A:LEU:HD13	1:92:A:PHE:HA	4	1.45
(1,288)	1:91:A:LEU:HD11	1:92:A:PHE:HA	8	1.44
(1,288)	1:91:A:LEU:HD12	1:92:A:PHE:HA	8	1.44
(1,288)	1:91:A:LEU:HD13	1:92:A:PHE:HA	8	1.44
(1,288)	1:91:A:LEU:HD11	1:92:A:PHE:HA	6	1.43
(1,288)	1:91:A:LEU:HD12	1:92:A:PHE:HA	6	1.43
(1,288)	1:91:A:LEU:HD13	1:92:A:PHE:HA	6	1.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1111)	1:129:A:GLN:HB2	1:130:A:LYS:HD2	2	1.42
(1,1111)	1:129:A:GLN:HB2	1:130:A:LYS:HD3	2	1.42
(1,1111)	1:129:A:GLN:HB3	1:130:A:LYS:HD2	2	1.42
(1,1111)	1:129:A:GLN:HB3	1:130:A:LYS:HD3	2	1.42
(1,1111)	1:129:A:GLN:HB2	1:130:A:LYS:HD2	9	1.42
(1,1111)	1:129:A:GLN:HB2	1:130:A:LYS:HD3	9	1.42
(1,1111)	1:129:A:GLN:HB3	1:130:A:LYS:HD2	9	1.42
(1,1111)	1:129:A:GLN:HB3	1:130:A:LYS:HD3	9	1.42
(1,1111)	1:129:A:GLN:HB2	1:130:A:LYS:HD2	7	1.41
(1,1111)	1:129:A:GLN:HB2	1:130:A:LYS:HD3	7	1.41
(1,1111)	1:129:A:GLN:HB3	1:130:A:LYS:HD2	7	1.41
(1,1111)	1:129:A:GLN:HB3	1:130:A:LYS:HD3	7	1.41
(1,112)	1:124:A:ILE:HG21	1:127:A:GLU:HB3	5	1.41
(1,112)	1:124:A:ILE:HG22	1:127:A:GLU:HB3	5	1.41
(1,112)	1:124:A:ILE:HG23	1:127:A:GLU:HB3	5	1.41
(1,1111)	1:129:A:GLN:HB2	1:130:A:LYS:HD2	1	1.4
(1,1111)	1:129:A:GLN:HB2	1:130:A:LYS:HD3	1	1.4
(1,1111)	1:129:A:GLN:HB3	1:130:A:LYS:HD2	1	1.4
(1,1111)	1:129:A:GLN:HB3	1:130:A:LYS:HD3	1	1.4
(1,1111)	1:129:A:GLN:HB2	1:130:A:LYS:HD2	10	1.4
(1,1111)	1:129:A:GLN:HB2	1:130:A:LYS:HD3	10	1.4
(1,1111)	1:129:A:GLN:HB3	1:130:A:LYS:HD2	10	1.4
(1,1111)	1:129:A:GLN:HB3	1:130:A:LYS:HD3	10	1.4
(1,288)	1:91:A:LEU:HD11	1:92:A:PHE:HA	3	1.4
(1,288)	1:91:A:LEU:HD12	1:92:A:PHE:HA	3	1.4
(1,288)	1:91:A:LEU:HD13	1:92:A:PHE:HA	3	1.4
(1,226)	1:46:A:SER:H	1:47:A:THR:HG21	5	1.39
(1,226)	1:46:A:SER:H	1:47:A:THR:HG22	5	1.39
(1,226)	1:46:A:SER:H	1:47:A:THR:HG23	5	1.39
(1,226)	1:46:A:SER:H	1:47:A:THR:HG21	1	1.38
(1,226)	1:46:A:SER:H	1:47:A:THR:HG22	1	1.38
(1,226)	1:46:A:SER:H	1:47:A:THR:HG23	1	1.38
(1,112)	1:124:A:ILE:HG21	1:127:A:GLU:HB3	7	1.38
(1,112)	1:124:A:ILE:HG22	1:127:A:GLU:HB3	7	1.38
(1,112)	1:124:A:ILE:HG23	1:127:A:GLU:HB3	7	1.38
(1,1111)	1:129:A:GLN:HB2	1:130:A:LYS:HD2	4	1.37
(1,1111)	1:129:A:GLN:HB2	1:130:A:LYS:HD3	4	1.37
(1,1111)	1:129:A:GLN:HB3	1:130:A:LYS:HD2	4	1.37
(1,1111)	1:129:A:GLN:HB3	1:130:A:LYS:HD3	4	1.37
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD11	2	1.37
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD12	2	1.37
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD13	2	1.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD21	2	1.37
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD22	2	1.37
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD23	2	1.37
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD11	2	1.37
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD12	2	1.37
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD13	2	1.37
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD21	2	1.37
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD22	2	1.37
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD23	2	1.37
(1,261)	1:124:A:ILE:HD11	1:127:A:GLU:HB3	6	1.37
(1,261)	1:124:A:ILE:HD12	1:127:A:GLU:HB3	6	1.37
(1,261)	1:124:A:ILE:HD13	1:127:A:GLU:HB3	6	1.37
(1,213)	1:36:A:LEU:H	1:51:A:LEU:HG	8	1.37
(1,1111)	1:129:A:GLN:HB2	1:130:A:LYS:HD2	3	1.36
(1,1111)	1:129:A:GLN:HB2	1:130:A:LYS:HD3	3	1.36
(1,1111)	1:129:A:GLN:HB3	1:130:A:LYS:HD2	3	1.36
(1,1111)	1:129:A:GLN:HB3	1:130:A:LYS:HD3	3	1.36
(1,1064)	1:104:A:GLU:HG2	1:105:A:ASP:HA	3	1.36
(1,1064)	1:104:A:GLU:HG3	1:105:A:ASP:HA	3	1.36
(1,1064)	1:104:A:GLU:HG2	1:105:A:ASP:HA	7	1.36
(1,1064)	1:104:A:GLU:HG3	1:105:A:ASP:HA	7	1.36
(1,226)	1:46:A:SER:H	1:47:A:THR:HG21	4	1.35
(1,226)	1:46:A:SER:H	1:47:A:THR:HG22	4	1.35
(1,226)	1:46:A:SER:H	1:47:A:THR:HG23	4	1.35
(1,226)	1:46:A:SER:H	1:47:A:THR:HG21	7	1.35
(1,226)	1:46:A:SER:H	1:47:A:THR:HG22	7	1.35
(1,226)	1:46:A:SER:H	1:47:A:THR:HG23	7	1.35
(1,226)	1:46:A:SER:H	1:47:A:THR:HG21	9	1.35
(1,226)	1:46:A:SER:H	1:47:A:THR:HG22	9	1.35
(1,226)	1:46:A:SER:H	1:47:A:THR:HG23	9	1.35
(1,1111)	1:129:A:GLN:HB2	1:130:A:LYS:HD2	8	1.34
(1,1111)	1:129:A:GLN:HB2	1:130:A:LYS:HD3	8	1.34
(1,1111)	1:129:A:GLN:HB3	1:130:A:LYS:HD2	8	1.34
(1,1111)	1:129:A:GLN:HB3	1:130:A:LYS:HD3	8	1.34
(1,1064)	1:104:A:GLU:HG2	1:105:A:ASP:HA	1	1.34
(1,1064)	1:104:A:GLU:HG3	1:105:A:ASP:HA	1	1.34
(1,1064)	1:104:A:GLU:HG2	1:105:A:ASP:HA	5	1.34
(1,1064)	1:104:A:GLU:HG3	1:105:A:ASP:HA	5	1.34
(1,1064)	1:104:A:GLU:HG2	1:105:A:ASP:HA	9	1.34
(1,1064)	1:104:A:GLU:HG3	1:105:A:ASP:HA	9	1.34
(1,201)	1:6:A:HIS:HA	1:7:A:GLU:HG2	7	1.34
(1,201)	1:6:A:HIS:HA	1:7:A:GLU:HG3	7	1.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD11	7	1.32
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD12	7	1.32
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD13	7	1.32
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD21	7	1.32
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD22	7	1.32
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD23	7	1.32
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD11	7	1.32
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD12	7	1.32
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD13	7	1.32
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD21	7	1.32
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD22	7	1.32
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD23	7	1.32
(1,1064)	1:104:A:GLU:HG2	1:105:A:ASP:HA	10	1.31
(1,1064)	1:104:A:GLU:HG3	1:105:A:ASP:HA	10	1.31
(1,251)	1:125:A:ILE:HG21	1:129:A:GLN:HE21	9	1.3
(1,251)	1:125:A:ILE:HG21	1:129:A:GLN:HE22	9	1.3
(1,251)	1:125:A:ILE:HG22	1:129:A:GLN:HE21	9	1.3
(1,251)	1:125:A:ILE:HG22	1:129:A:GLN:HE22	9	1.3
(1,251)	1:125:A:ILE:HG23	1:129:A:GLN:HE21	9	1.3
(1,251)	1:125:A:ILE:HG23	1:129:A:GLN:HE22	9	1.3
(1,214)	1:34:A:THR:HG21	1:35:A:ARG:HA	2	1.3
(1,214)	1:34:A:THR:HG22	1:35:A:ARG:HA	2	1.3
(1,214)	1:34:A:THR:HG23	1:35:A:ARG:HA	2	1.3
(1,1111)	1:129:A:GLN:HB2	1:130:A:LYS:HD2	6	1.28
(1,1111)	1:129:A:GLN:HB2	1:130:A:LYS:HD3	6	1.28
(1,1111)	1:129:A:GLN:HB3	1:130:A:LYS:HD2	6	1.28
(1,1111)	1:129:A:GLN:HB3	1:130:A:LYS:HD3	6	1.28
(1,213)	1:36:A:LEU:H	1:51:A:LEU:HG	7	1.28
(1,112)	1:124:A:ILE:HG21	1:127:A:GLU:HB3	2	1.28
(1,112)	1:124:A:ILE:HG22	1:127:A:GLU:HB3	2	1.28
(1,112)	1:124:A:ILE:HG23	1:127:A:GLU:HB3	2	1.28
(1,1064)	1:104:A:GLU:HG2	1:105:A:ASP:HA	4	1.27
(1,1064)	1:104:A:GLU:HG3	1:105:A:ASP:HA	4	1.27
(1,1064)	1:104:A:GLU:HG2	1:105:A:ASP:HA	8	1.27
(1,1064)	1:104:A:GLU:HG3	1:105:A:ASP:HA	8	1.27
(1,1039)	1:95:A:LEU:HB2	1:110:A:VAL:HG21	8	1.27
(1,1039)	1:95:A:LEU:HB2	1:110:A:VAL:HG22	8	1.27
(1,1039)	1:95:A:LEU:HB2	1:110:A:VAL:HG23	8	1.27
(1,1039)	1:95:A:LEU:HB3	1:110:A:VAL:HG21	8	1.27
(1,1039)	1:95:A:LEU:HB3	1:110:A:VAL:HG22	8	1.27
(1,1039)	1:95:A:LEU:HB3	1:110:A:VAL:HG23	8	1.27
(1,833)	1:24:A:LYS:HG2	1:25:A:LEU:HA	1	1.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,833)	1:24:A:LYS:HG3	1:25:A:LEU:HA	1	1.27
(1,833)	1:24:A:LYS:HG2	1:25:A:LEU:HA	5	1.27
(1,833)	1:24:A:LYS:HG3	1:25:A:LEU:HA	5	1.27
(1,783)	1:35:A:ARG:H	1:35:A:ARG:HE	1	1.27
(1,201)	1:6:A:HIS:HA	1:7:A:GLU:HG2	4	1.27
(1,201)	1:6:A:HIS:HA	1:7:A:GLU:HG3	4	1.27
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD11	1	1.26
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD12	1	1.26
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD13	1	1.26
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD21	1	1.26
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD22	1	1.26
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD23	1	1.26
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD11	1	1.26
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD12	1	1.26
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD13	1	1.26
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD21	1	1.26
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD22	1	1.26
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD23	1	1.26
(1,833)	1:24:A:LYS:HG2	1:25:A:LEU:HA	3	1.26
(1,833)	1:24:A:LYS:HG3	1:25:A:LEU:HA	3	1.26
(1,833)	1:24:A:LYS:HG2	1:25:A:LEU:HA	8	1.26
(1,833)	1:24:A:LYS:HG3	1:25:A:LEU:HA	8	1.26
(1,226)	1:46:A:SER:H	1:47:A:THR:HG21	10	1.26
(1,226)	1:46:A:SER:H	1:47:A:THR:HG22	10	1.26
(1,226)	1:46:A:SER:H	1:47:A:THR:HG23	10	1.26
(1,833)	1:24:A:LYS:HG2	1:25:A:LEU:HA	4	1.25
(1,833)	1:24:A:LYS:HG3	1:25:A:LEU:HA	4	1.25
(1,1039)	1:95:A:LEU:HB2	1:110:A:VAL:HG21	2	1.24
(1,1039)	1:95:A:LEU:HB2	1:110:A:VAL:HG22	2	1.24
(1,1039)	1:95:A:LEU:HB2	1:110:A:VAL:HG23	2	1.24
(1,1039)	1:95:A:LEU:HB3	1:110:A:VAL:HG21	2	1.24
(1,1039)	1:95:A:LEU:HB3	1:110:A:VAL:HG22	2	1.24
(1,1039)	1:95:A:LEU:HB3	1:110:A:VAL:HG23	2	1.24
(1,833)	1:24:A:LYS:HG2	1:25:A:LEU:HA	10	1.24
(1,833)	1:24:A:LYS:HG3	1:25:A:LEU:HA	10	1.24
(1,226)	1:46:A:SER:H	1:47:A:THR:HG21	3	1.24
(1,226)	1:46:A:SER:H	1:47:A:THR:HG22	3	1.24
(1,226)	1:46:A:SER:H	1:47:A:THR:HG23	3	1.24
(1,213)	1:36:A:LEU:H	1:51:A:LEU:HG	5	1.24
(1,96)	1:36:A:LEU:HA	1:51:A:LEU:HG	3	1.24
(1,251)	1:125:A:ILE:HG21	1:129:A:GLN:HE21	8	1.23
(1,251)	1:125:A:ILE:HG21	1:129:A:GLN:HE22	8	1.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,251)	1:125:A:ILE:HG22	1:129:A:GLN:HE21	8	1.23
(1,251)	1:125:A:ILE:HG22	1:129:A:GLN:HE22	8	1.23
(1,251)	1:125:A:ILE:HG23	1:129:A:GLN:HE21	8	1.23
(1,251)	1:125:A:ILE:HG23	1:129:A:GLN:HE22	8	1.23
(1,213)	1:36:A:LEU:H	1:51:A:LEU:HG	1	1.23
(1,833)	1:24:A:LYS:HG2	1:25:A:LEU:HA	7	1.22
(1,833)	1:24:A:LYS:HG3	1:25:A:LEU:HA	7	1.22
(1,936)	1:51:A:LEU:HD11	1:54:A:GLN:HE21	9	1.21
(1,936)	1:51:A:LEU:HD11	1:54:A:GLN:HE22	9	1.21
(1,936)	1:51:A:LEU:HD12	1:54:A:GLN:HE21	9	1.21
(1,936)	1:51:A:LEU:HD12	1:54:A:GLN:HE22	9	1.21
(1,936)	1:51:A:LEU:HD13	1:54:A:GLN:HE21	9	1.21
(1,936)	1:51:A:LEU:HD13	1:54:A:GLN:HE22	9	1.21
(1,936)	1:51:A:LEU:HD21	1:54:A:GLN:HE21	9	1.21
(1,936)	1:51:A:LEU:HD21	1:54:A:GLN:HE22	9	1.21
(1,936)	1:51:A:LEU:HD22	1:54:A:GLN:HE21	9	1.21
(1,936)	1:51:A:LEU:HD22	1:54:A:GLN:HE22	9	1.21
(1,936)	1:51:A:LEU:HD23	1:54:A:GLN:HE21	9	1.21
(1,936)	1:51:A:LEU:HD23	1:54:A:GLN:HE22	9	1.21
(1,833)	1:24:A:LYS:HG2	1:25:A:LEU:HA	9	1.21
(1,833)	1:24:A:LYS:HG3	1:25:A:LEU:HA	9	1.21
(1,282)	1:92:A:PHE:HD1	1:114:A:ILE:HD11	6	1.21
(1,282)	1:92:A:PHE:HD1	1:114:A:ILE:HD12	6	1.21
(1,282)	1:92:A:PHE:HD1	1:114:A:ILE:HD13	6	1.21
(1,833)	1:24:A:LYS:HG2	1:25:A:LEU:HA	2	1.2
(1,833)	1:24:A:LYS:HG3	1:25:A:LEU:HA	2	1.2
(1,96)	1:36:A:LEU:HA	1:51:A:LEU:HG	6	1.2
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD11	3	1.19
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD12	3	1.19
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD13	3	1.19
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD21	3	1.19
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD22	3	1.19
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD23	3	1.19
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD11	3	1.19
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD12	3	1.19
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD13	3	1.19
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD21	3	1.19
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD22	3	1.19
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD23	3	1.19
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD11	7	1.19
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD12	7	1.19
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD13	7	1.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD21	7	1.19
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD22	7	1.19
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD23	7	1.19
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD11	7	1.19
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD12	7	1.19
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD13	7	1.19
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD21	7	1.19
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD22	7	1.19
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD23	7	1.19
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD11	8	1.19
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD12	8	1.19
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD13	8	1.19
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD21	8	1.19
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD22	8	1.19
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD23	8	1.19
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD11	8	1.19
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD12	8	1.19
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD13	8	1.19
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD21	8	1.19
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD22	8	1.19
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD23	8	1.19
(1,112)	1:124:A:ILE:HG21	1:127:A:GLU:HB3	9	1.19
(1,112)	1:124:A:ILE:HG22	1:127:A:GLU:HB3	9	1.19
(1,112)	1:124:A:ILE:HG23	1:127:A:GLU:HB3	9	1.19
(1,55)	1:40:A:PHE:HD1	1:48:A:VAL:HG11	3	1.19
(1,55)	1:40:A:PHE:HD1	1:48:A:VAL:HG12	3	1.19
(1,55)	1:40:A:PHE:HD1	1:48:A:VAL:HG13	3	1.19
(1,55)	1:40:A:PHE:HD2	1:48:A:VAL:HG11	3	1.19
(1,55)	1:40:A:PHE:HD2	1:48:A:VAL:HG12	3	1.19
(1,55)	1:40:A:PHE:HD2	1:48:A:VAL:HG13	3	1.19
(1,96)	1:36:A:LEU:HA	1:51:A:LEU:HG	9	1.18
(1,736)	1:84:A:LEU:HD21	1:120:A:GLN:HE21	6	1.17
(1,736)	1:84:A:LEU:HD22	1:120:A:GLN:HE21	6	1.17
(1,736)	1:84:A:LEU:HD23	1:120:A:GLN:HE21	6	1.17
(1,251)	1:125:A:ILE:HG21	1:129:A:GLN:HE21	7	1.17
(1,251)	1:125:A:ILE:HG21	1:129:A:GLN:HE22	7	1.17
(1,251)	1:125:A:ILE:HG22	1:129:A:GLN:HE21	7	1.17
(1,251)	1:125:A:ILE:HG22	1:129:A:GLN:HE22	7	1.17
(1,251)	1:125:A:ILE:HG23	1:129:A:GLN:HE21	7	1.17
(1,251)	1:125:A:ILE:HG23	1:129:A:GLN:HE22	7	1.17
(1,96)	1:36:A:LEU:HA	1:51:A:LEU:HG	2	1.17
(1,282)	1:92:A:PHE:HD1	1:114:A:ILE:HD11	1	1.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,282)	1:92:A:PHE:HD1	1:114:A:ILE:HD12	1	1.15
(1,282)	1:92:A:PHE:HD1	1:114:A:ILE:HD13	1	1.15
(1,1039)	1:95:A:LEU:HB2	1:110:A:VAL:HG21	4	1.14
(1,1039)	1:95:A:LEU:HB2	1:110:A:VAL:HG22	4	1.14
(1,1039)	1:95:A:LEU:HB2	1:110:A:VAL:HG23	4	1.14
(1,1039)	1:95:A:LEU:HB3	1:110:A:VAL:HG21	4	1.14
(1,1039)	1:95:A:LEU:HB3	1:110:A:VAL:HG22	4	1.14
(1,1039)	1:95:A:LEU:HB3	1:110:A:VAL:HG23	4	1.14
(1,1039)	1:95:A:LEU:HB2	1:110:A:VAL:HG21	5	1.14
(1,1039)	1:95:A:LEU:HB2	1:110:A:VAL:HG22	5	1.14
(1,1039)	1:95:A:LEU:HB2	1:110:A:VAL:HG23	5	1.14
(1,1039)	1:95:A:LEU:HB3	1:110:A:VAL:HG21	5	1.14
(1,1039)	1:95:A:LEU:HB3	1:110:A:VAL:HG22	5	1.14
(1,1039)	1:95:A:LEU:HB3	1:110:A:VAL:HG23	5	1.14
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG11	2	1.14
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG12	2	1.14
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG13	2	1.14
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG21	2	1.14
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG22	2	1.14
(1,906)	1:40:A:PHE:HE2	1:48:A:VAL:HG23	2	1.14
(1,743)	1:53:A:LYS:H	1:53:A:LYS:HE2	3	1.14
(1,743)	1:53:A:LYS:H	1:53:A:LYS:HE3	3	1.14
(1,743)	1:53:A:LYS:H	1:53:A:LYS:HE2	4	1.14
(1,743)	1:53:A:LYS:H	1:53:A:LYS:HE3	4	1.14
(1,743)	1:53:A:LYS:H	1:53:A:LYS:HE2	10	1.14
(1,743)	1:53:A:LYS:H	1:53:A:LYS:HE3	10	1.14
(1,696)	1:129:A:GLN:H	1:129:A:GLN:HE21	8	1.14
(1,696)	1:129:A:GLN:H	1:129:A:GLN:HE22	8	1.14
(1,282)	1:92:A:PHE:HD1	1:114:A:ILE:HD11	7	1.14
(1,282)	1:92:A:PHE:HD1	1:114:A:ILE:HD12	7	1.14
(1,282)	1:92:A:PHE:HD1	1:114:A:ILE:HD13	7	1.14
(1,861)	1:34:A:THR:HG21	1:35:A:ARG:HG2	1	1.12
(1,861)	1:34:A:THR:HG21	1:35:A:ARG:HG3	1	1.12
(1,861)	1:34:A:THR:HG22	1:35:A:ARG:HG2	1	1.12
(1,861)	1:34:A:THR:HG22	1:35:A:ARG:HG3	1	1.12
(1,861)	1:34:A:THR:HG23	1:35:A:ARG:HG2	1	1.12
(1,861)	1:34:A:THR:HG23	1:35:A:ARG:HG3	1	1.12
(1,736)	1:84:A:LEU:HD21	1:120:A:GLN:HE21	4	1.12
(1,736)	1:84:A:LEU:HD22	1:120:A:GLN:HE21	4	1.12
(1,736)	1:84:A:LEU:HD23	1:120:A:GLN:HE21	4	1.12
(1,1039)	1:95:A:LEU:HB2	1:110:A:VAL:HG21	10	1.11
(1,1039)	1:95:A:LEU:HB2	1:110:A:VAL:HG22	10	1.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1039)	1:95:A:LEU:HB2	1:110:A:VAL:HG23	10	1.11
(1,1039)	1:95:A:LEU:HB3	1:110:A:VAL:HG21	10	1.11
(1,1039)	1:95:A:LEU:HB3	1:110:A:VAL:HG22	10	1.11
(1,1039)	1:95:A:LEU:HB3	1:110:A:VAL:HG23	10	1.11
(1,251)	1:125:A:ILE:HG21	1:129:A:GLN:HE21	5	1.11
(1,251)	1:125:A:ILE:HG21	1:129:A:GLN:HE22	5	1.11
(1,251)	1:125:A:ILE:HG22	1:129:A:GLN:HE21	5	1.11
(1,251)	1:125:A:ILE:HG22	1:129:A:GLN:HE22	5	1.11
(1,251)	1:125:A:ILE:HG23	1:129:A:GLN:HE21	5	1.11
(1,251)	1:125:A:ILE:HG23	1:129:A:GLN:HE22	5	1.11
(1,853)	1:31:A:VAL:HG11	1:35:A:ARG:HD2	10	1.09
(1,853)	1:31:A:VAL:HG11	1:35:A:ARG:HD3	10	1.09
(1,853)	1:31:A:VAL:HG12	1:35:A:ARG:HD2	10	1.09
(1,853)	1:31:A:VAL:HG12	1:35:A:ARG:HD3	10	1.09
(1,853)	1:31:A:VAL:HG13	1:35:A:ARG:HD2	10	1.09
(1,853)	1:31:A:VAL:HG13	1:35:A:ARG:HD3	10	1.09
(1,853)	1:31:A:VAL:HG21	1:35:A:ARG:HD2	10	1.09
(1,853)	1:31:A:VAL:HG21	1:35:A:ARG:HD3	10	1.09
(1,853)	1:31:A:VAL:HG22	1:35:A:ARG:HD2	10	1.09
(1,853)	1:31:A:VAL:HG22	1:35:A:ARG:HD3	10	1.09
(1,853)	1:31:A:VAL:HG23	1:35:A:ARG:HD2	10	1.09
(1,853)	1:31:A:VAL:HG23	1:35:A:ARG:HD3	10	1.09
(1,1039)	1:95:A:LEU:HB2	1:110:A:VAL:HG21	1	1.08
(1,1039)	1:95:A:LEU:HB2	1:110:A:VAL:HG22	1	1.08
(1,1039)	1:95:A:LEU:HB2	1:110:A:VAL:HG23	1	1.08
(1,1039)	1:95:A:LEU:HB3	1:110:A:VAL:HG21	1	1.08
(1,1039)	1:95:A:LEU:HB3	1:110:A:VAL:HG22	1	1.08
(1,1039)	1:95:A:LEU:HB3	1:110:A:VAL:HG23	1	1.08
(1,1039)	1:95:A:LEU:HB2	1:110:A:VAL:HG21	9	1.08
(1,1039)	1:95:A:LEU:HB2	1:110:A:VAL:HG22	9	1.08
(1,1039)	1:95:A:LEU:HB2	1:110:A:VAL:HG23	9	1.08
(1,1039)	1:95:A:LEU:HB3	1:110:A:VAL:HG21	9	1.08
(1,1039)	1:95:A:LEU:HB3	1:110:A:VAL:HG22	9	1.08
(1,1039)	1:95:A:LEU:HB3	1:110:A:VAL:HG23	9	1.08
(1,984)	1:72:A:GLU:HB2	1:73:A:THR:HG21	1	1.08
(1,984)	1:72:A:GLU:HB2	1:73:A:THR:HG22	1	1.08
(1,984)	1:72:A:GLU:HB2	1:73:A:THR:HG23	1	1.08
(1,984)	1:72:A:GLU:HB3	1:73:A:THR:HG21	1	1.08
(1,984)	1:72:A:GLU:HB3	1:73:A:THR:HG22	1	1.08
(1,984)	1:72:A:GLU:HB3	1:73:A:THR:HG23	1	1.08
(1,984)	1:72:A:GLU:HB2	1:73:A:THR:HG21	4	1.08
(1,984)	1:72:A:GLU:HB2	1:73:A:THR:HG22	4	1.08

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,984)	1:72:A:GLU:HB2	1:73:A:THR:HG23	4	1.08
(1,984)	1:72:A:GLU:HB3	1:73:A:THR:HG21	4	1.08
(1,984)	1:72:A:GLU:HB3	1:73:A:THR:HG22	4	1.08
(1,984)	1:72:A:GLU:HB3	1:73:A:THR:HG23	4	1.08
(1,862)	1:34:A:THR:HG21	1:38:A:GLN:HG2	2	1.08
(1,862)	1:34:A:THR:HG21	1:38:A:GLN:HG3	2	1.08
(1,862)	1:34:A:THR:HG22	1:38:A:GLN:HG2	2	1.08
(1,862)	1:34:A:THR:HG22	1:38:A:GLN:HG3	2	1.08
(1,862)	1:34:A:THR:HG23	1:38:A:GLN:HG2	2	1.08
(1,862)	1:34:A:THR:HG23	1:38:A:GLN:HG3	2	1.08
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG11	2	1.08
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG12	2	1.08
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG13	2	1.08
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG21	2	1.08
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG22	2	1.08
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG23	2	1.08
(1,984)	1:72:A:GLU:HB2	1:73:A:THR:HG21	3	1.07
(1,984)	1:72:A:GLU:HB2	1:73:A:THR:HG22	3	1.07
(1,984)	1:72:A:GLU:HB2	1:73:A:THR:HG23	3	1.07
(1,984)	1:72:A:GLU:HB3	1:73:A:THR:HG21	3	1.07
(1,984)	1:72:A:GLU:HB3	1:73:A:THR:HG22	3	1.07
(1,984)	1:72:A:GLU:HB3	1:73:A:THR:HG23	3	1.07
(1,736)	1:84:A:LEU:HD21	1:120:A:GLN:HE21	5	1.07
(1,736)	1:84:A:LEU:HD22	1:120:A:GLN:HE21	5	1.07
(1,736)	1:84:A:LEU:HD23	1:120:A:GLN:HE21	5	1.07
(1,696)	1:129:A:GLN:H	1:129:A:GLN:HE21	1	1.07
(1,696)	1:129:A:GLN:H	1:129:A:GLN:HE22	1	1.07
(1,1004)	1:84:A:LEU:HD11	1:120:A:GLN:HE21	6	1.06
(1,1004)	1:84:A:LEU:HD11	1:120:A:GLN:HE22	6	1.06
(1,1004)	1:84:A:LEU:HD12	1:120:A:GLN:HE21	6	1.06
(1,1004)	1:84:A:LEU:HD12	1:120:A:GLN:HE22	6	1.06
(1,1004)	1:84:A:LEU:HD13	1:120:A:GLN:HE21	6	1.06
(1,1004)	1:84:A:LEU:HD13	1:120:A:GLN:HE22	6	1.06
(1,1004)	1:84:A:LEU:HD21	1:120:A:GLN:HE21	6	1.06
(1,1004)	1:84:A:LEU:HD21	1:120:A:GLN:HE22	6	1.06
(1,1004)	1:84:A:LEU:HD22	1:120:A:GLN:HE21	6	1.06
(1,1004)	1:84:A:LEU:HD22	1:120:A:GLN:HE22	6	1.06
(1,1004)	1:84:A:LEU:HD23	1:120:A:GLN:HE21	6	1.06
(1,1004)	1:84:A:LEU:HD23	1:120:A:GLN:HE22	6	1.06
(1,762)	1:72:A:GLU:H	1:73:A:THR:HG21	6	1.06
(1,762)	1:72:A:GLU:H	1:73:A:THR:HG22	6	1.06
(1,762)	1:72:A:GLU:H	1:73:A:THR:HG23	6	1.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,559)	1:97:A:THR:HG21	1:101:A:GLN:HE21	5	1.06
(1,559)	1:97:A:THR:HG22	1:101:A:GLN:HE21	5	1.06
(1,559)	1:97:A:THR:HG23	1:101:A:GLN:HE21	5	1.06
(1,1039)	1:95:A:LEU:HB2	1:110:A:VAL:HG21	7	1.05
(1,1039)	1:95:A:LEU:HB2	1:110:A:VAL:HG22	7	1.05
(1,1039)	1:95:A:LEU:HB2	1:110:A:VAL:HG23	7	1.05
(1,1039)	1:95:A:LEU:HB3	1:110:A:VAL:HG21	7	1.05
(1,1039)	1:95:A:LEU:HB3	1:110:A:VAL:HG22	7	1.05
(1,1039)	1:95:A:LEU:HB3	1:110:A:VAL:HG23	7	1.05
(1,1023)	1:91:A:LEU:HD11	1:92:A:PHE:HB2	10	1.05
(1,1023)	1:91:A:LEU:HD11	1:92:A:PHE:HB3	10	1.05
(1,1023)	1:91:A:LEU:HD12	1:92:A:PHE:HB2	10	1.05
(1,1023)	1:91:A:LEU:HD12	1:92:A:PHE:HB3	10	1.05
(1,1023)	1:91:A:LEU:HD13	1:92:A:PHE:HB2	10	1.05
(1,1023)	1:91:A:LEU:HD13	1:92:A:PHE:HB3	10	1.05
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD11	10	1.05
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD12	10	1.05
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD13	10	1.05
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD21	10	1.05
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD22	10	1.05
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD23	10	1.05
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD11	10	1.05
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD12	10	1.05
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD13	10	1.05
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD21	10	1.05
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD22	10	1.05
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD23	10	1.05
(1,836)	1:24:A:LYS:HE2	1:25:A:LEU:H	7	1.05
(1,836)	1:24:A:LYS:HE3	1:25:A:LEU:H	7	1.05
(1,251)	1:125:A:ILE:HG21	1:129:A:GLN:HE21	6	1.05
(1,251)	1:125:A:ILE:HG21	1:129:A:GLN:HE22	6	1.05
(1,251)	1:125:A:ILE:HG22	1:129:A:GLN:HE21	6	1.05
(1,251)	1:125:A:ILE:HG22	1:129:A:GLN:HE22	6	1.05
(1,251)	1:125:A:ILE:HG23	1:129:A:GLN:HE21	6	1.05
(1,251)	1:125:A:ILE:HG23	1:129:A:GLN:HE22	6	1.05
(1,1023)	1:91:A:LEU:HD11	1:92:A:PHE:HB2	1	1.04
(1,1023)	1:91:A:LEU:HD11	1:92:A:PHE:HB3	1	1.04
(1,1023)	1:91:A:LEU:HD12	1:92:A:PHE:HB2	1	1.04
(1,1023)	1:91:A:LEU:HD12	1:92:A:PHE:HB3	1	1.04
(1,1023)	1:91:A:LEU:HD13	1:92:A:PHE:HB2	1	1.04
(1,1023)	1:91:A:LEU:HD13	1:92:A:PHE:HB3	1	1.04
(1,1023)	1:91:A:LEU:HD11	1:92:A:PHE:HB2	5	1.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1023)	1:91:A:LEU:HD11	1:92:A:PHE:HB3	5	1.04
(1,1023)	1:91:A:LEU:HD12	1:92:A:PHE:HB2	5	1.04
(1,1023)	1:91:A:LEU:HD12	1:92:A:PHE:HB3	5	1.04
(1,1023)	1:91:A:LEU:HD13	1:92:A:PHE:HB2	5	1.04
(1,1023)	1:91:A:LEU:HD13	1:92:A:PHE:HB3	5	1.04
(1,984)	1:72:A:GLU:HB2	1:73:A:THR:HG21	6	1.04
(1,984)	1:72:A:GLU:HB2	1:73:A:THR:HG22	6	1.04
(1,984)	1:72:A:GLU:HB2	1:73:A:THR:HG23	6	1.04
(1,984)	1:72:A:GLU:HB3	1:73:A:THR:HG21	6	1.04
(1,984)	1:72:A:GLU:HB3	1:73:A:THR:HG22	6	1.04
(1,984)	1:72:A:GLU:HB3	1:73:A:THR:HG23	6	1.04
(1,880)	1:36:A:LEU:HD11	1:37:A:VAL:HA	3	1.04
(1,880)	1:36:A:LEU:HD12	1:37:A:VAL:HA	3	1.04
(1,880)	1:36:A:LEU:HD13	1:37:A:VAL:HA	3	1.04
(1,880)	1:36:A:LEU:HD21	1:37:A:VAL:HA	3	1.04
(1,880)	1:36:A:LEU:HD22	1:37:A:VAL:HA	3	1.04
(1,880)	1:36:A:LEU:HD23	1:37:A:VAL:HA	3	1.04
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD11	5	1.04
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD12	5	1.04
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD13	5	1.04
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD21	5	1.04
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD22	5	1.04
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD23	5	1.04
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD11	5	1.04
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD12	5	1.04
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD13	5	1.04
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD21	5	1.04
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD22	5	1.04
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD23	5	1.04
(1,836)	1:24:A:LYS:HE2	1:25:A:LEU:H	10	1.04
(1,836)	1:24:A:LYS:HE3	1:25:A:LEU:H	10	1.04
(1,1023)	1:91:A:LEU:HD11	1:92:A:PHE:HB2	7	1.03
(1,1023)	1:91:A:LEU:HD11	1:92:A:PHE:HB3	7	1.03
(1,1023)	1:91:A:LEU:HD12	1:92:A:PHE:HB2	7	1.03
(1,1023)	1:91:A:LEU:HD12	1:92:A:PHE:HB3	7	1.03
(1,1023)	1:91:A:LEU:HD13	1:92:A:PHE:HB2	7	1.03
(1,1023)	1:91:A:LEU:HD13	1:92:A:PHE:HB3	7	1.03
(1,1004)	1:84:A:LEU:HD11	1:120:A:GLN:HE21	4	1.03
(1,1004)	1:84:A:LEU:HD11	1:120:A:GLN:HE22	4	1.03
(1,1004)	1:84:A:LEU:HD12	1:120:A:GLN:HE21	4	1.03
(1,1004)	1:84:A:LEU:HD12	1:120:A:GLN:HE22	4	1.03
(1,1004)	1:84:A:LEU:HD13	1:120:A:GLN:HE21	4	1.03

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1004)	1:84:A:LEU:HD13	1:120:A:GLN:HE22	4	1.03
(1,1004)	1:84:A:LEU:HD21	1:120:A:GLN:HE21	4	1.03
(1,1004)	1:84:A:LEU:HD21	1:120:A:GLN:HE22	4	1.03
(1,1004)	1:84:A:LEU:HD22	1:120:A:GLN:HE21	4	1.03
(1,1004)	1:84:A:LEU:HD22	1:120:A:GLN:HE22	4	1.03
(1,1004)	1:84:A:LEU:HD23	1:120:A:GLN:HE21	4	1.03
(1,1004)	1:84:A:LEU:HD23	1:120:A:GLN:HE22	4	1.03
(1,836)	1:24:A:LYS:HE2	1:25:A:LEU:H	2	1.03
(1,836)	1:24:A:LYS:HE3	1:25:A:LEU:H	2	1.03
(1,836)	1:24:A:LYS:HE2	1:25:A:LEU:H	9	1.03
(1,836)	1:24:A:LYS:HE3	1:25:A:LEU:H	9	1.03
(1,282)	1:92:A:PHE:HD1	1:114:A:ILE:HD11	4	1.03
(1,282)	1:92:A:PHE:HD1	1:114:A:ILE:HD12	4	1.03
(1,282)	1:92:A:PHE:HD1	1:114:A:ILE:HD13	4	1.03
(1,984)	1:72:A:GLU:HB2	1:73:A:THR:HG21	7	1.02
(1,984)	1:72:A:GLU:HB2	1:73:A:THR:HG22	7	1.02
(1,984)	1:72:A:GLU:HB2	1:73:A:THR:HG23	7	1.02
(1,984)	1:72:A:GLU:HB3	1:73:A:THR:HG21	7	1.02
(1,984)	1:72:A:GLU:HB3	1:73:A:THR:HG22	7	1.02
(1,984)	1:72:A:GLU:HB3	1:73:A:THR:HG23	7	1.02
(1,249)	1:20:A:ALA:HB1	1:21:A:GLU:HG2	6	1.02
(1,249)	1:20:A:ALA:HB2	1:21:A:GLU:HG2	6	1.02
(1,249)	1:20:A:ALA:HB3	1:21:A:GLU:HG2	6	1.02
(1,212)	1:128:A:ALA:HB1	1:129:A:GLN:HE21	10	1.02
(1,212)	1:128:A:ALA:HB1	1:129:A:GLN:HE22	10	1.02
(1,212)	1:128:A:ALA:HB2	1:129:A:GLN:HE21	10	1.02
(1,212)	1:128:A:ALA:HB2	1:129:A:GLN:HE22	10	1.02
(1,212)	1:128:A:ALA:HB3	1:129:A:GLN:HE21	10	1.02
(1,212)	1:128:A:ALA:HB3	1:129:A:GLN:HE22	10	1.02
(1,1023)	1:91:A:LEU:HD11	1:92:A:PHE:HB2	2	1.0
(1,1023)	1:91:A:LEU:HD11	1:92:A:PHE:HB3	2	1.0
(1,1023)	1:91:A:LEU:HD12	1:92:A:PHE:HB2	2	1.0
(1,1023)	1:91:A:LEU:HD12	1:92:A:PHE:HB3	2	1.0
(1,1023)	1:91:A:LEU:HD13	1:92:A:PHE:HB2	2	1.0
(1,1023)	1:91:A:LEU:HD13	1:92:A:PHE:HB3	2	1.0
(1,1023)	1:91:A:LEU:HD11	1:92:A:PHE:HB2	3	1.0
(1,1023)	1:91:A:LEU:HD11	1:92:A:PHE:HB3	3	1.0
(1,1023)	1:91:A:LEU:HD12	1:92:A:PHE:HB2	3	1.0
(1,1023)	1:91:A:LEU:HD12	1:92:A:PHE:HB3	3	1.0
(1,1023)	1:91:A:LEU:HD13	1:92:A:PHE:HB2	3	1.0
(1,1023)	1:91:A:LEU:HD13	1:92:A:PHE:HB3	3	1.0
(1,880)	1:36:A:LEU:HD11	1:37:A:VAL:HA	9	1.0

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,880)	1:36:A:LEU:HD12	1:37:A:VAL:HA	9	1.0
(1,880)	1:36:A:LEU:HD13	1:37:A:VAL:HA	9	1.0
(1,880)	1:36:A:LEU:HD21	1:37:A:VAL:HA	9	1.0
(1,880)	1:36:A:LEU:HD22	1:37:A:VAL:HA	9	1.0
(1,880)	1:36:A:LEU:HD23	1:37:A:VAL:HA	9	1.0
(1,696)	1:129:A:GLN:H	1:129:A:GLN:HE21	7	1.0
(1,696)	1:129:A:GLN:H	1:129:A:GLN:HE22	7	1.0
(1,201)	1:6:A:HIS:HA	1:7:A:GLU:HG2	10	1.0
(1,201)	1:6:A:HIS:HA	1:7:A:GLU:HG3	10	1.0
(1,75)	1:31:A:VAL:HA	1:34:A:THR:HB	2	1.0
(1,880)	1:36:A:LEU:HD11	1:37:A:VAL:HA	6	0.99
(1,880)	1:36:A:LEU:HD12	1:37:A:VAL:HA	6	0.99
(1,880)	1:36:A:LEU:HD13	1:37:A:VAL:HA	6	0.99
(1,880)	1:36:A:LEU:HD21	1:37:A:VAL:HA	6	0.99
(1,880)	1:36:A:LEU:HD22	1:37:A:VAL:HA	6	0.99
(1,880)	1:36:A:LEU:HD23	1:37:A:VAL:HA	6	0.99
(1,762)	1:72:A:GLU:H	1:73:A:THR:HG21	1	0.99
(1,762)	1:72:A:GLU:H	1:73:A:THR:HG22	1	0.99
(1,762)	1:72:A:GLU:H	1:73:A:THR:HG23	1	0.99
(1,880)	1:36:A:LEU:HD11	1:37:A:VAL:HA	2	0.98
(1,880)	1:36:A:LEU:HD12	1:37:A:VAL:HA	2	0.98
(1,880)	1:36:A:LEU:HD13	1:37:A:VAL:HA	2	0.98
(1,880)	1:36:A:LEU:HD21	1:37:A:VAL:HA	2	0.98
(1,880)	1:36:A:LEU:HD22	1:37:A:VAL:HA	2	0.98
(1,880)	1:36:A:LEU:HD23	1:37:A:VAL:HA	2	0.98
(1,1065)	1:105:A:ASP:HA	1:108:A:LYS:HG2	4	0.97
(1,1065)	1:105:A:ASP:HA	1:108:A:LYS:HG3	4	0.97
(1,1023)	1:91:A:LEU:HD11	1:92:A:PHE:HB2	4	0.97
(1,1023)	1:91:A:LEU:HD11	1:92:A:PHE:HB3	4	0.97
(1,1023)	1:91:A:LEU:HD12	1:92:A:PHE:HB2	4	0.97
(1,1023)	1:91:A:LEU:HD12	1:92:A:PHE:HB3	4	0.97
(1,1023)	1:91:A:LEU:HD13	1:92:A:PHE:HB2	4	0.97
(1,1023)	1:91:A:LEU:HD13	1:92:A:PHE:HB3	4	0.97
(1,798)	1:13:A:SER:HB2	1:16:A:LYS:H	4	0.97
(1,798)	1:13:A:SER:HB3	1:16:A:LYS:H	4	0.97
(1,782)	1:115:A:GLN:H	1:115:A:GLN:HE22	7	0.97
(1,1065)	1:105:A:ASP:HA	1:108:A:LYS:HG2	7	0.96
(1,1065)	1:105:A:ASP:HA	1:108:A:LYS:HG3	7	0.96
(1,1023)	1:91:A:LEU:HD11	1:92:A:PHE:HB2	6	0.96
(1,1023)	1:91:A:LEU:HD11	1:92:A:PHE:HB3	6	0.96
(1,1023)	1:91:A:LEU:HD12	1:92:A:PHE:HB2	6	0.96
(1,1023)	1:91:A:LEU:HD12	1:92:A:PHE:HB3	6	0.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1023)	1:91:A:LEU:HD13	1:92:A:PHE:HB2	6	0.96
(1,1023)	1:91:A:LEU:HD13	1:92:A:PHE:HB3	6	0.96
(1,1004)	1:84:A:LEU:HD11	1:120:A:GLN:HE21	5	0.96
(1,1004)	1:84:A:LEU:HD11	1:120:A:GLN:HE22	5	0.96
(1,1004)	1:84:A:LEU:HD12	1:120:A:GLN:HE21	5	0.96
(1,1004)	1:84:A:LEU:HD12	1:120:A:GLN:HE22	5	0.96
(1,1004)	1:84:A:LEU:HD13	1:120:A:GLN:HE21	5	0.96
(1,1004)	1:84:A:LEU:HD13	1:120:A:GLN:HE22	5	0.96
(1,1004)	1:84:A:LEU:HD21	1:120:A:GLN:HE21	5	0.96
(1,1004)	1:84:A:LEU:HD21	1:120:A:GLN:HE22	5	0.96
(1,1004)	1:84:A:LEU:HD22	1:120:A:GLN:HE21	5	0.96
(1,1004)	1:84:A:LEU:HD22	1:120:A:GLN:HE22	5	0.96
(1,1004)	1:84:A:LEU:HD23	1:120:A:GLN:HE21	5	0.96
(1,1004)	1:84:A:LEU:HD23	1:120:A:GLN:HE22	5	0.96
(1,696)	1:129:A:GLN:H	1:129:A:GLN:HE21	6	0.96
(1,696)	1:129:A:GLN:H	1:129:A:GLN:HE22	6	0.96
(1,1023)	1:91:A:LEU:HD11	1:92:A:PHE:HB2	9	0.95
(1,1023)	1:91:A:LEU:HD11	1:92:A:PHE:HB3	9	0.95
(1,1023)	1:91:A:LEU:HD12	1:92:A:PHE:HB2	9	0.95
(1,1023)	1:91:A:LEU:HD12	1:92:A:PHE:HB3	9	0.95
(1,1023)	1:91:A:LEU:HD13	1:92:A:PHE:HB2	9	0.95
(1,1023)	1:91:A:LEU:HD13	1:92:A:PHE:HB3	9	0.95
(1,1020)	1:90:A:GLN:HA	1:90:A:GLN:HE21	1	0.95
(1,1020)	1:90:A:GLN:HA	1:90:A:GLN:HE22	1	0.95
(1,1020)	1:90:A:GLN:HA	1:90:A:GLN:HE21	6	0.95
(1,1020)	1:90:A:GLN:HA	1:90:A:GLN:HE22	6	0.95
(1,1020)	1:90:A:GLN:HA	1:90:A:GLN:HE21	7	0.95
(1,1020)	1:90:A:GLN:HA	1:90:A:GLN:HE22	7	0.95
(1,1020)	1:90:A:GLN:HA	1:90:A:GLN:HE21	8	0.95
(1,1020)	1:90:A:GLN:HA	1:90:A:GLN:HE22	8	0.95
(1,836)	1:24:A:LYS:HE2	1:25:A:LEU:H	6	0.95
(1,836)	1:24:A:LYS:HE3	1:25:A:LEU:H	6	0.95
(1,1065)	1:105:A:ASP:HA	1:108:A:LYS:HG2	3	0.94
(1,1065)	1:105:A:ASP:HA	1:108:A:LYS:HG3	3	0.94
(1,1065)	1:105:A:ASP:HA	1:108:A:LYS:HG2	9	0.94
(1,1065)	1:105:A:ASP:HA	1:108:A:LYS:HG3	9	0.94
(1,1020)	1:90:A:GLN:HA	1:90:A:GLN:HE21	4	0.94
(1,1020)	1:90:A:GLN:HA	1:90:A:GLN:HE22	4	0.94
(1,1020)	1:90:A:GLN:HA	1:90:A:GLN:HE21	5	0.94
(1,1020)	1:90:A:GLN:HA	1:90:A:GLN:HE22	5	0.94
(1,1020)	1:90:A:GLN:HA	1:90:A:GLN:HE21	9	0.94
(1,1020)	1:90:A:GLN:HA	1:90:A:GLN:HE22	9	0.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1020)	1:90:A:GLN:HA	1:90:A:GLN:HE21	10	0.94
(1,1020)	1:90:A:GLN:HA	1:90:A:GLN:HE22	10	0.94
(1,782)	1:115:A:GLN:H	1:115:A:GLN:HE22	4	0.94
(1,762)	1:72:A:GLU:H	1:73:A:THR:HG21	7	0.94
(1,762)	1:72:A:GLU:H	1:73:A:THR:HG22	7	0.94
(1,762)	1:72:A:GLU:H	1:73:A:THR:HG23	7	0.94
(1,212)	1:128:A:ALA:HB1	1:129:A:GLN:HE21	4	0.94
(1,212)	1:128:A:ALA:HB1	1:129:A:GLN:HE22	4	0.94
(1,212)	1:128:A:ALA:HB2	1:129:A:GLN:HE21	4	0.94
(1,212)	1:128:A:ALA:HB2	1:129:A:GLN:HE22	4	0.94
(1,212)	1:128:A:ALA:HB3	1:129:A:GLN:HE21	4	0.94
(1,212)	1:128:A:ALA:HB3	1:129:A:GLN:HE22	4	0.94
(1,1020)	1:90:A:GLN:HA	1:90:A:GLN:HE21	2	0.93
(1,1020)	1:90:A:GLN:HA	1:90:A:GLN:HE22	2	0.93
(1,782)	1:115:A:GLN:H	1:115:A:GLN:HE22	3	0.93
(1,782)	1:115:A:GLN:H	1:115:A:GLN:HE22	9	0.93
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD11	3	0.92
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD12	3	0.92
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD13	3	0.92
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD21	3	0.92
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD22	3	0.92
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD23	3	0.92
(1,1065)	1:105:A:ASP:HA	1:108:A:LYS:HG2	10	0.92
(1,1065)	1:105:A:ASP:HA	1:108:A:LYS:HG3	10	0.92
(1,1020)	1:90:A:GLN:HA	1:90:A:GLN:HE21	3	0.92
(1,1020)	1:90:A:GLN:HA	1:90:A:GLN:HE22	3	0.92
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD11	9	0.92
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD12	9	0.92
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD13	9	0.92
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD21	9	0.92
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD22	9	0.92
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD23	9	0.92
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD11	9	0.92
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD12	9	0.92
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD13	9	0.92
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD21	9	0.92
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD22	9	0.92
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD23	9	0.92
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD11	1	0.92
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD12	1	0.92
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD13	1	0.92
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD21	1	0.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD22	1	0.92
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD23	1	0.92
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD11	1	0.92
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD12	1	0.92
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD13	1	0.92
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD21	1	0.92
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD22	1	0.92
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD23	1	0.92
(1,1065)	1:105:A:ASP:HA	1:108:A:LYS:HG2	1	0.91
(1,1065)	1:105:A:ASP:HA	1:108:A:LYS:HG3	1	0.91
(1,1023)	1:91:A:LEU:HD11	1:92:A:PHE:HB2	8	0.91
(1,1023)	1:91:A:LEU:HD11	1:92:A:PHE:HB3	8	0.91
(1,1023)	1:91:A:LEU:HD12	1:92:A:PHE:HB2	8	0.91
(1,1023)	1:91:A:LEU:HD12	1:92:A:PHE:HB3	8	0.91
(1,1023)	1:91:A:LEU:HD13	1:92:A:PHE:HB2	8	0.91
(1,1023)	1:91:A:LEU:HD13	1:92:A:PHE:HB3	8	0.91
(1,815)	1:20:A:ALA:HB1	1:21:A:GLU:HG2	6	0.91
(1,815)	1:20:A:ALA:HB1	1:21:A:GLU:HG3	6	0.91
(1,815)	1:20:A:ALA:HB2	1:21:A:GLU:HG2	6	0.91
(1,815)	1:20:A:ALA:HB2	1:21:A:GLU:HG3	6	0.91
(1,815)	1:20:A:ALA:HB3	1:21:A:GLU:HG2	6	0.91
(1,815)	1:20:A:ALA:HB3	1:21:A:GLU:HG3	6	0.91
(1,762)	1:72:A:GLU:H	1:73:A:THR:HG21	4	0.91
(1,762)	1:72:A:GLU:H	1:73:A:THR:HG22	4	0.91
(1,762)	1:72:A:GLU:H	1:73:A:THR:HG23	4	0.91
(1,736)	1:84:A:LEU:HD21	1:120:A:GLN:HE21	9	0.91
(1,736)	1:84:A:LEU:HD22	1:120:A:GLN:HE21	9	0.91
(1,736)	1:84:A:LEU:HD23	1:120:A:GLN:HE21	9	0.91
(1,1107)	1:126:A:THR:HG21	1:127:A:GLU:HG2	6	0.9
(1,1107)	1:126:A:THR:HG21	1:127:A:GLU:HG3	6	0.9
(1,1107)	1:126:A:THR:HG22	1:127:A:GLU:HG2	6	0.9
(1,1107)	1:126:A:THR:HG22	1:127:A:GLU:HG3	6	0.9
(1,1107)	1:126:A:THR:HG23	1:127:A:GLU:HG2	6	0.9
(1,1107)	1:126:A:THR:HG23	1:127:A:GLU:HG3	6	0.9
(1,1034)	1:94:A:GLN:HG2	1:95:A:LEU:HD11	4	0.9
(1,1034)	1:94:A:GLN:HG2	1:95:A:LEU:HD12	4	0.9
(1,1034)	1:94:A:GLN:HG2	1:95:A:LEU:HD13	4	0.9
(1,1034)	1:94:A:GLN:HG2	1:95:A:LEU:HD21	4	0.9
(1,1034)	1:94:A:GLN:HG2	1:95:A:LEU:HD22	4	0.9
(1,1034)	1:94:A:GLN:HG2	1:95:A:LEU:HD23	4	0.9
(1,1034)	1:94:A:GLN:HG3	1:95:A:LEU:HD11	4	0.9
(1,1034)	1:94:A:GLN:HG3	1:95:A:LEU:HD12	4	0.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1034)	1:94:A:GLN:HG3	1:95:A:LEU:HD13	4	0.9
(1,1034)	1:94:A:GLN:HG3	1:95:A:LEU:HD21	4	0.9
(1,1034)	1:94:A:GLN:HG3	1:95:A:LEU:HD22	4	0.9
(1,1034)	1:94:A:GLN:HG3	1:95:A:LEU:HD23	4	0.9
(1,782)	1:115:A:GLN:H	1:115:A:GLN:HE22	6	0.9
(1,625)	1:126:A:THR:H	1:127:A:GLU:HB3	2	0.9
(1,625)	1:126:A:THR:H	1:127:A:GLU:HB3	3	0.9
(1,696)	1:129:A:GLN:H	1:129:A:GLN:HE21	9	0.89
(1,696)	1:129:A:GLN:H	1:129:A:GLN:HE22	9	0.89
(1,625)	1:126:A:THR:H	1:127:A:GLU:HB3	8	0.89
(1,625)	1:126:A:THR:H	1:127:A:GLU:HB3	10	0.89
(1,27)	1:45:A:GLN:HA	1:48:A:VAL:HB	4	0.89
(1,1034)	1:94:A:GLN:HG2	1:95:A:LEU:HD11	8	0.88
(1,1034)	1:94:A:GLN:HG2	1:95:A:LEU:HD12	8	0.88
(1,1034)	1:94:A:GLN:HG2	1:95:A:LEU:HD13	8	0.88
(1,1034)	1:94:A:GLN:HG2	1:95:A:LEU:HD21	8	0.88
(1,1034)	1:94:A:GLN:HG2	1:95:A:LEU:HD22	8	0.88
(1,1034)	1:94:A:GLN:HG2	1:95:A:LEU:HD23	8	0.88
(1,1034)	1:94:A:GLN:HG3	1:95:A:LEU:HD11	8	0.88
(1,1034)	1:94:A:GLN:HG3	1:95:A:LEU:HD12	8	0.88
(1,1034)	1:94:A:GLN:HG3	1:95:A:LEU:HD13	8	0.88
(1,1034)	1:94:A:GLN:HG3	1:95:A:LEU:HD21	8	0.88
(1,1034)	1:94:A:GLN:HG3	1:95:A:LEU:HD22	8	0.88
(1,1034)	1:94:A:GLN:HG3	1:95:A:LEU:HD23	8	0.88
(1,625)	1:126:A:THR:H	1:127:A:GLU:HB3	7	0.88
(1,1065)	1:105:A:ASP:HA	1:108:A:LYS:HG2	5	0.87
(1,1065)	1:105:A:ASP:HA	1:108:A:LYS:HG3	5	0.87
(1,1034)	1:94:A:GLN:HG2	1:95:A:LEU:HD11	9	0.87
(1,1034)	1:94:A:GLN:HG2	1:95:A:LEU:HD12	9	0.87
(1,1034)	1:94:A:GLN:HG2	1:95:A:LEU:HD13	9	0.87
(1,1034)	1:94:A:GLN:HG2	1:95:A:LEU:HD21	9	0.87
(1,1034)	1:94:A:GLN:HG2	1:95:A:LEU:HD22	9	0.87
(1,1034)	1:94:A:GLN:HG2	1:95:A:LEU:HD23	9	0.87
(1,1034)	1:94:A:GLN:HG3	1:95:A:LEU:HD11	9	0.87
(1,1034)	1:94:A:GLN:HG3	1:95:A:LEU:HD12	9	0.87
(1,1034)	1:94:A:GLN:HG3	1:95:A:LEU:HD13	9	0.87
(1,1034)	1:94:A:GLN:HG3	1:95:A:LEU:HD21	9	0.87
(1,1034)	1:94:A:GLN:HG3	1:95:A:LEU:HD22	9	0.87
(1,1034)	1:94:A:GLN:HG3	1:95:A:LEU:HD23	9	0.87
(1,696)	1:129:A:GLN:H	1:129:A:GLN:HE21	5	0.87
(1,696)	1:129:A:GLN:H	1:129:A:GLN:HE22	5	0.87
(1,793)	1:6:A:HIS:HB2	1:7:A:GLU:HG2	2	0.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,793)	1:6:A:HIS:HB2	1:7:A:GLU:HG3	2	0.86
(1,793)	1:6:A:HIS:HB3	1:7:A:GLU:HG2	2	0.86
(1,793)	1:6:A:HIS:HB3	1:7:A:GLU:HG3	2	0.86
(1,782)	1:115:A:GLN:H	1:115:A:GLN:HE22	2	0.86
(1,782)	1:115:A:GLN:H	1:115:A:GLN:HE22	8	0.86
(1,762)	1:72:A:GLU:H	1:73:A:THR:HG21	3	0.86
(1,762)	1:72:A:GLU:H	1:73:A:THR:HG22	3	0.86
(1,762)	1:72:A:GLU:H	1:73:A:THR:HG23	3	0.86
(1,1034)	1:94:A:GLN:HG2	1:95:A:LEU:HD11	2	0.85
(1,1034)	1:94:A:GLN:HG2	1:95:A:LEU:HD12	2	0.85
(1,1034)	1:94:A:GLN:HG2	1:95:A:LEU:HD13	2	0.85
(1,1034)	1:94:A:GLN:HG2	1:95:A:LEU:HD21	2	0.85
(1,1034)	1:94:A:GLN:HG2	1:95:A:LEU:HD22	2	0.85
(1,1034)	1:94:A:GLN:HG2	1:95:A:LEU:HD23	2	0.85
(1,1034)	1:94:A:GLN:HG3	1:95:A:LEU:HD11	2	0.85
(1,1034)	1:94:A:GLN:HG3	1:95:A:LEU:HD12	2	0.85
(1,1034)	1:94:A:GLN:HG3	1:95:A:LEU:HD13	2	0.85
(1,1034)	1:94:A:GLN:HG3	1:95:A:LEU:HD21	2	0.85
(1,1034)	1:94:A:GLN:HG3	1:95:A:LEU:HD22	2	0.85
(1,1034)	1:94:A:GLN:HG3	1:95:A:LEU:HD23	2	0.85
(1,625)	1:126:A:THR:H	1:127:A:GLU:HB3	1	0.85
(1,231)	1:49:A:ASP:HB2	1:50:A:SER:HB2	10	0.85
(1,231)	1:49:A:ASP:HB2	1:50:A:SER:HB3	10	0.85
(1,625)	1:126:A:THR:H	1:127:A:GLU:HB3	4	0.84
(1,625)	1:126:A:THR:H	1:127:A:GLU:HB3	5	0.84
(1,1035)	1:94:A:GLN:HE21	1:110:A:VAL:HG11	6	0.83
(1,1035)	1:94:A:GLN:HE21	1:110:A:VAL:HG12	6	0.83
(1,1035)	1:94:A:GLN:HE21	1:110:A:VAL:HG13	6	0.83
(1,1035)	1:94:A:GLN:HE22	1:110:A:VAL:HG11	6	0.83
(1,1035)	1:94:A:GLN:HE22	1:110:A:VAL:HG12	6	0.83
(1,1035)	1:94:A:GLN:HE22	1:110:A:VAL:HG13	6	0.83
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD11	4	0.83
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD12	4	0.83
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD13	4	0.83
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD21	4	0.83
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD22	4	0.83
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD23	4	0.83
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD11	4	0.83
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD12	4	0.83
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD13	4	0.83
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD21	4	0.83
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD22	4	0.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD23	4	0.83
(1,625)	1:126:A:THR:H	1:127:A:GLU:HB3	9	0.83
(1,1065)	1:105:A:ASP:HA	1:108:A:LYS:HG2	6	0.82
(1,1065)	1:105:A:ASP:HA	1:108:A:LYS:HG3	6	0.82
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD11	10	0.82
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD12	10	0.82
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD13	10	0.82
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD21	10	0.82
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD22	10	0.82
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD23	10	0.82
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD11	10	0.82
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD12	10	0.82
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD13	10	0.82
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD21	10	0.82
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD22	10	0.82
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD23	10	0.82
(1,231)	1:49:A:ASP:HB2	1:50:A:SER:HB2	3	0.82
(1,231)	1:49:A:ASP:HB2	1:50:A:SER:HB3	3	0.82
(1,231)	1:49:A:ASP:HB2	1:50:A:SER:HB2	4	0.82
(1,231)	1:49:A:ASP:HB2	1:50:A:SER:HB3	4	0.82
(1,1065)	1:105:A:ASP:HA	1:108:A:LYS:HG2	8	0.8
(1,1065)	1:105:A:ASP:HA	1:108:A:LYS:HG3	8	0.8
(1,780)	1:36:A:LEU:H	1:37:A:VAL:HG11	1	0.8
(1,780)	1:36:A:LEU:H	1:37:A:VAL:HG12	1	0.8
(1,780)	1:36:A:LEU:H	1:37:A:VAL:HG13	1	0.8
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG11	6	0.79
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG12	6	0.79
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG13	6	0.79
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG21	6	0.79
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG22	6	0.79
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG23	6	0.79
(1,782)	1:115:A:GLN:H	1:115:A:GLN:HE22	5	0.79
(1,780)	1:36:A:LEU:H	1:37:A:VAL:HG11	10	0.79
(1,780)	1:36:A:LEU:H	1:37:A:VAL:HG12	10	0.79
(1,780)	1:36:A:LEU:H	1:37:A:VAL:HG13	10	0.79
(1,780)	1:36:A:LEU:H	1:37:A:VAL:HG11	4	0.78
(1,780)	1:36:A:LEU:H	1:37:A:VAL:HG12	4	0.78
(1,780)	1:36:A:LEU:H	1:37:A:VAL:HG13	4	0.78
(1,780)	1:36:A:LEU:H	1:37:A:VAL:HG11	7	0.78
(1,780)	1:36:A:LEU:H	1:37:A:VAL:HG12	7	0.78
(1,780)	1:36:A:LEU:H	1:37:A:VAL:HG13	7	0.78
(1,780)	1:36:A:LEU:H	1:37:A:VAL:HG11	2	0.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,780)	1:36:A:LEU:H	1:37:A:VAL:HG12	2	0.77
(1,780)	1:36:A:LEU:H	1:37:A:VAL:HG13	2	0.77
(1,780)	1:36:A:LEU:H	1:37:A:VAL:HG11	5	0.77
(1,780)	1:36:A:LEU:H	1:37:A:VAL:HG12	5	0.77
(1,780)	1:36:A:LEU:H	1:37:A:VAL:HG13	5	0.77
(1,136)	1:120:A:GLN:HA	1:124:A:ILE:HD11	3	0.77
(1,136)	1:120:A:GLN:HA	1:124:A:ILE:HD12	3	0.77
(1,136)	1:120:A:GLN:HA	1:124:A:ILE:HD13	3	0.77
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD11	7	0.76
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD12	7	0.76
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD13	7	0.76
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD21	7	0.76
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD22	7	0.76
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD23	7	0.76
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD11	7	0.76
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD12	7	0.76
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD13	7	0.76
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD21	7	0.76
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD22	7	0.76
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD23	7	0.76
(1,782)	1:115:A:GLN:H	1:115:A:GLN:HE22	10	0.76
(1,780)	1:36:A:LEU:H	1:37:A:VAL:HG11	8	0.76
(1,780)	1:36:A:LEU:H	1:37:A:VAL:HG12	8	0.76
(1,780)	1:36:A:LEU:H	1:37:A:VAL:HG13	8	0.76
(1,735)	1:84:A:LEU:HD11	1:120:A:GLN:HE21	6	0.76
(1,735)	1:84:A:LEU:HD12	1:120:A:GLN:HE21	6	0.76
(1,735)	1:84:A:LEU:HD13	1:120:A:GLN:HE21	6	0.76
(1,780)	1:36:A:LEU:H	1:37:A:VAL:HG11	6	0.75
(1,780)	1:36:A:LEU:H	1:37:A:VAL:HG12	6	0.75
(1,780)	1:36:A:LEU:H	1:37:A:VAL:HG13	6	0.75
(1,780)	1:36:A:LEU:H	1:37:A:VAL:HG11	9	0.75
(1,780)	1:36:A:LEU:H	1:37:A:VAL:HG12	9	0.75
(1,780)	1:36:A:LEU:H	1:37:A:VAL:HG13	9	0.75
(1,1065)	1:105:A:ASP:HA	1:108:A:LYS:HG2	2	0.74
(1,1065)	1:105:A:ASP:HA	1:108:A:LYS:HG3	2	0.74
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD11	3	0.74
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD12	3	0.74
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD13	3	0.74
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD21	3	0.74
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD22	3	0.74
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD23	3	0.74
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD11	3	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD12	3	0.74
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD13	3	0.74
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD21	3	0.74
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD22	3	0.74
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD23	3	0.74
(1,1068)	1:107:A:ALA:HB1	1:111:A:LEU:HD11	3	0.72
(1,1068)	1:107:A:ALA:HB1	1:111:A:LEU:HD12	3	0.72
(1,1068)	1:107:A:ALA:HB1	1:111:A:LEU:HD13	3	0.72
(1,1068)	1:107:A:ALA:HB1	1:111:A:LEU:HD21	3	0.72
(1,1068)	1:107:A:ALA:HB1	1:111:A:LEU:HD22	3	0.72
(1,1068)	1:107:A:ALA:HB1	1:111:A:LEU:HD23	3	0.72
(1,1068)	1:107:A:ALA:HB2	1:111:A:LEU:HD11	3	0.72
(1,1068)	1:107:A:ALA:HB2	1:111:A:LEU:HD12	3	0.72
(1,1068)	1:107:A:ALA:HB2	1:111:A:LEU:HD13	3	0.72
(1,1068)	1:107:A:ALA:HB2	1:111:A:LEU:HD21	3	0.72
(1,1068)	1:107:A:ALA:HB2	1:111:A:LEU:HD22	3	0.72
(1,1068)	1:107:A:ALA:HB2	1:111:A:LEU:HD23	3	0.72
(1,1068)	1:107:A:ALA:HB3	1:111:A:LEU:HD11	3	0.72
(1,1068)	1:107:A:ALA:HB3	1:111:A:LEU:HD12	3	0.72
(1,1068)	1:107:A:ALA:HB3	1:111:A:LEU:HD13	3	0.72
(1,1068)	1:107:A:ALA:HB3	1:111:A:LEU:HD21	3	0.72
(1,1068)	1:107:A:ALA:HB3	1:111:A:LEU:HD22	3	0.72
(1,1068)	1:107:A:ALA:HB3	1:111:A:LEU:HD23	3	0.72
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD11	8	0.72
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD12	8	0.72
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD13	8	0.72
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD21	8	0.72
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD22	8	0.72
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD23	8	0.72
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD11	8	0.72
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD12	8	0.72
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD13	8	0.72
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD21	8	0.72
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD22	8	0.72
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD23	8	0.72
(1,780)	1:36:A:LEU:H	1:37:A:VAL:HG11	3	0.72
(1,780)	1:36:A:LEU:H	1:37:A:VAL:HG12	3	0.72
(1,780)	1:36:A:LEU:H	1:37:A:VAL:HG13	3	0.72
(1,720)	1:98:A:LEU:HB2	1:103:A:ASP:H	3	0.72
(1,243)	1:49:A:ASP:HB3	1:50:A:SER:HB2	7	0.72
(1,243)	1:49:A:ASP:HB3	1:50:A:SER:HB3	7	0.72
(1,96)	1:36:A:LEU:HA	1:51:A:LEU:HG	4	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1035)	1:94:A:GLN:HE21	1:110:A:VAL:HG11	1	0.71
(1,1035)	1:94:A:GLN:HE21	1:110:A:VAL:HG12	1	0.71
(1,1035)	1:94:A:GLN:HE21	1:110:A:VAL:HG13	1	0.71
(1,1035)	1:94:A:GLN:HE22	1:110:A:VAL:HG11	1	0.71
(1,1035)	1:94:A:GLN:HE22	1:110:A:VAL:HG12	1	0.71
(1,1035)	1:94:A:GLN:HE22	1:110:A:VAL:HG13	1	0.71
(1,735)	1:84:A:LEU:HD11	1:120:A:GLN:HE21	4	0.71
(1,735)	1:84:A:LEU:HD12	1:120:A:GLN:HE21	4	0.71
(1,735)	1:84:A:LEU:HD13	1:120:A:GLN:HE21	4	0.71
(1,1035)	1:94:A:GLN:HE21	1:110:A:VAL:HG11	7	0.7
(1,1035)	1:94:A:GLN:HE21	1:110:A:VAL:HG12	7	0.7
(1,1035)	1:94:A:GLN:HE21	1:110:A:VAL:HG13	7	0.7
(1,1035)	1:94:A:GLN:HE22	1:110:A:VAL:HG11	7	0.7
(1,1035)	1:94:A:GLN:HE22	1:110:A:VAL:HG12	7	0.7
(1,1035)	1:94:A:GLN:HE22	1:110:A:VAL:HG13	7	0.7
(1,243)	1:49:A:ASP:HB3	1:50:A:SER:HB2	5	0.7
(1,243)	1:49:A:ASP:HB3	1:50:A:SER:HB3	5	0.7
(1,136)	1:120:A:GLN:HA	1:124:A:ILE:HD11	8	0.7
(1,136)	1:120:A:GLN:HA	1:124:A:ILE:HD12	8	0.7
(1,136)	1:120:A:GLN:HA	1:124:A:ILE:HD13	8	0.7
(1,96)	1:36:A:LEU:HA	1:51:A:LEU:HG	10	0.7
(1,1062)	1:104:A:GLU:H	1:104:A:GLU:HG2	2	0.69
(1,1062)	1:104:A:GLU:H	1:104:A:GLU:HG3	2	0.69
(1,1062)	1:104:A:GLU:H	1:104:A:GLU:HG2	6	0.69
(1,1062)	1:104:A:GLU:H	1:104:A:GLU:HG3	6	0.69
(1,1035)	1:94:A:GLN:HE21	1:110:A:VAL:HG11	10	0.69
(1,1035)	1:94:A:GLN:HE21	1:110:A:VAL:HG12	10	0.69
(1,1035)	1:94:A:GLN:HE21	1:110:A:VAL:HG13	10	0.69
(1,1035)	1:94:A:GLN:HE22	1:110:A:VAL:HG11	10	0.69
(1,1035)	1:94:A:GLN:HE22	1:110:A:VAL:HG12	10	0.69
(1,1035)	1:94:A:GLN:HE22	1:110:A:VAL:HG13	10	0.69
(1,1030)	1:93:A:SER:HB2	1:94:A:GLN:HA	1	0.69
(1,1030)	1:93:A:SER:HB3	1:94:A:GLN:HA	1	0.69
(1,1030)	1:93:A:SER:HB2	1:94:A:GLN:HA	2	0.69
(1,1030)	1:93:A:SER:HB3	1:94:A:GLN:HA	2	0.69
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD11	2	0.69
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD12	2	0.69
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD13	2	0.69
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD21	2	0.69
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD22	2	0.69
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD23	2	0.69
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD11	2	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD12	2	0.69
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD13	2	0.69
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD21	2	0.69
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD22	2	0.69
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD23	2	0.69
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD11	9	0.69
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD12	9	0.69
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD13	9	0.69
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD21	9	0.69
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD22	9	0.69
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD23	9	0.69
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD11	9	0.69
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD12	9	0.69
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD13	9	0.69
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD21	9	0.69
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD22	9	0.69
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD23	9	0.69
(1,620)	1:88:A:ASN:HD22	1:91:A:LEU:HD11	8	0.69
(1,620)	1:88:A:ASN:HD22	1:91:A:LEU:HD12	8	0.69
(1,620)	1:88:A:ASN:HD22	1:91:A:LEU:HD13	8	0.69
(1,243)	1:49:A:ASP:HB3	1:50:A:SER:HB2	1	0.69
(1,243)	1:49:A:ASP:HB3	1:50:A:SER:HB3	1	0.69
(1,96)	1:36:A:LEU:HA	1:51:A:LEU:HG	8	0.69
(1,1030)	1:93:A:SER:HB2	1:94:A:GLN:HA	7	0.68
(1,1030)	1:93:A:SER:HB3	1:94:A:GLN:HA	7	0.68
(1,1030)	1:93:A:SER:HB2	1:94:A:GLN:HA	8	0.68
(1,1030)	1:93:A:SER:HB3	1:94:A:GLN:HA	8	0.68
(1,988)	1:76:A:GLU:HB2	1:77:A:LEU:HB2	8	0.68
(1,988)	1:76:A:GLU:HB2	1:77:A:LEU:HB3	8	0.68
(1,988)	1:76:A:GLU:HB3	1:77:A:LEU:HB2	8	0.68
(1,988)	1:76:A:GLU:HB3	1:77:A:LEU:HB3	8	0.68
(1,860)	1:34:A:THR:HB	1:35:A:ARG:HB2	2	0.68
(1,860)	1:34:A:THR:HB	1:35:A:ARG:HB3	2	0.68
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG11	3	0.68
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG12	3	0.68
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG13	3	0.68
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG21	3	0.68
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG22	3	0.68
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG23	3	0.68
(1,251)	1:125:A:ILE:HG21	1:129:A:GLN:HE21	2	0.68
(1,251)	1:125:A:ILE:HG21	1:129:A:GLN:HE22	2	0.68
(1,251)	1:125:A:ILE:HG22	1:129:A:GLN:HE21	2	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,251)	1:125:A:ILE:HG22	1:129:A:GLN:HE22	2	0.68
(1,251)	1:125:A:ILE:HG23	1:129:A:GLN:HE21	2	0.68
(1,251)	1:125:A:ILE:HG23	1:129:A:GLN:HE22	2	0.68
(1,1030)	1:93:A:SER:HB2	1:94:A:GLN:HA	4	0.67
(1,1030)	1:93:A:SER:HB3	1:94:A:GLN:HA	4	0.67
(1,1030)	1:93:A:SER:HB2	1:94:A:GLN:HA	5	0.67
(1,1030)	1:93:A:SER:HB3	1:94:A:GLN:HA	5	0.67
(1,59)	1:95:A:LEU:HD11	1:107:A:ALA:HB1	2	0.67
(1,59)	1:95:A:LEU:HD11	1:107:A:ALA:HB2	2	0.67
(1,59)	1:95:A:LEU:HD11	1:107:A:ALA:HB3	2	0.67
(1,59)	1:95:A:LEU:HD12	1:107:A:ALA:HB1	2	0.67
(1,59)	1:95:A:LEU:HD12	1:107:A:ALA:HB2	2	0.67
(1,59)	1:95:A:LEU:HD12	1:107:A:ALA:HB3	2	0.67
(1,59)	1:95:A:LEU:HD13	1:107:A:ALA:HB1	2	0.67
(1,59)	1:95:A:LEU:HD13	1:107:A:ALA:HB2	2	0.67
(1,59)	1:95:A:LEU:HD13	1:107:A:ALA:HB3	2	0.67
(1,1030)	1:93:A:SER:HB2	1:94:A:GLN:HA	10	0.66
(1,1030)	1:93:A:SER:HB3	1:94:A:GLN:HA	10	0.66
(1,243)	1:49:A:ASP:HB3	1:50:A:SER:HB2	8	0.66
(1,243)	1:49:A:ASP:HB3	1:50:A:SER:HB3	8	0.66
(1,130)	1:20:A:ALA:HB1	1:21:A:GLU:HG3	6	0.66
(1,130)	1:20:A:ALA:HB2	1:21:A:GLU:HG3	6	0.66
(1,130)	1:20:A:ALA:HB3	1:21:A:GLU:HG3	6	0.66
(1,82)	1:124:A:ILE:HA	1:127:A:GLU:HB3	3	0.66
(1,201)	1:6:A:HIS:HA	1:7:A:GLU:HG2	8	0.65
(1,201)	1:6:A:HIS:HA	1:7:A:GLU:HG3	8	0.65
(1,136)	1:120:A:GLN:HA	1:124:A:ILE:HD11	1	0.65
(1,136)	1:120:A:GLN:HA	1:124:A:ILE:HD12	1	0.65
(1,136)	1:120:A:GLN:HA	1:124:A:ILE:HD13	1	0.65
(1,59)	1:95:A:LEU:HD11	1:107:A:ALA:HB1	8	0.65
(1,59)	1:95:A:LEU:HD11	1:107:A:ALA:HB2	8	0.65
(1,59)	1:95:A:LEU:HD11	1:107:A:ALA:HB3	8	0.65
(1,59)	1:95:A:LEU:HD12	1:107:A:ALA:HB1	8	0.65
(1,59)	1:95:A:LEU:HD12	1:107:A:ALA:HB2	8	0.65
(1,59)	1:95:A:LEU:HD12	1:107:A:ALA:HB3	8	0.65
(1,59)	1:95:A:LEU:HD13	1:107:A:ALA:HB1	8	0.65
(1,59)	1:95:A:LEU:HD13	1:107:A:ALA:HB2	8	0.65
(1,59)	1:95:A:LEU:HD13	1:107:A:ALA:HB3	8	0.65
(1,1035)	1:94:A:GLN:HE21	1:110:A:VAL:HG11	5	0.64
(1,1035)	1:94:A:GLN:HE21	1:110:A:VAL:HG12	5	0.64
(1,1035)	1:94:A:GLN:HE21	1:110:A:VAL:HG13	5	0.64
(1,1035)	1:94:A:GLN:HE22	1:110:A:VAL:HG11	5	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1035)	1:94:A:GLN:HE22	1:110:A:VAL:HG12	5	0.64
(1,1035)	1:94:A:GLN:HE22	1:110:A:VAL:HG13	5	0.64
(1,220)	1:95:A:LEU:HG	1:110:A:VAL:HG21	2	0.64
(1,220)	1:95:A:LEU:HG	1:110:A:VAL:HG22	2	0.64
(1,220)	1:95:A:LEU:HG	1:110:A:VAL:HG23	2	0.64
(1,96)	1:36:A:LEU:HA	1:51:A:LEU:HG	5	0.64
(1,1030)	1:93:A:SER:HB2	1:94:A:GLN:HA	6	0.63
(1,1030)	1:93:A:SER:HB3	1:94:A:GLN:HA	6	0.63
(1,720)	1:98:A:LEU:HB2	1:103:A:ASP:H	9	0.63
(1,620)	1:88:A:ASN:HD22	1:91:A:LEU:HD11	5	0.63
(1,620)	1:88:A:ASN:HD22	1:91:A:LEU:HD12	5	0.63
(1,620)	1:88:A:ASN:HD22	1:91:A:LEU:HD13	5	0.63
(1,604)	1:39:A:ALA:H	1:47:A:THR:HG21	2	0.63
(1,604)	1:39:A:ALA:H	1:47:A:THR:HG22	2	0.63
(1,604)	1:39:A:ALA:H	1:47:A:THR:HG23	2	0.63
(1,343)	1:108:A:LYS:H	1:108:A:LYS:HG2	3	0.63
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD11	6	0.62
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD12	6	0.62
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD13	6	0.62
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD21	6	0.62
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD22	6	0.62
(1,848)	1:29:A:ASN:HD21	1:32:A:LEU:HD23	6	0.62
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD11	6	0.62
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD12	6	0.62
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD13	6	0.62
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD21	6	0.62
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD22	6	0.62
(1,848)	1:29:A:ASN:HD22	1:32:A:LEU:HD23	6	0.62
(1,735)	1:84:A:LEU:HD11	1:120:A:GLN:HE21	5	0.62
(1,735)	1:84:A:LEU:HD12	1:120:A:GLN:HE21	5	0.62
(1,735)	1:84:A:LEU:HD13	1:120:A:GLN:HE21	5	0.62
(1,720)	1:98:A:LEU:HB2	1:103:A:ASP:H	6	0.62
(1,604)	1:39:A:ALA:H	1:47:A:THR:HG21	6	0.62
(1,604)	1:39:A:ALA:H	1:47:A:THR:HG22	6	0.62
(1,604)	1:39:A:ALA:H	1:47:A:THR:HG23	6	0.62
(1,559)	1:97:A:THR:HG21	1:101:A:GLN:HE21	8	0.62
(1,559)	1:97:A:THR:HG22	1:101:A:GLN:HE21	8	0.62
(1,559)	1:97:A:THR:HG23	1:101:A:GLN:HE21	8	0.62
(1,343)	1:108:A:LYS:H	1:108:A:LYS:HG2	1	0.62
(1,343)	1:108:A:LYS:H	1:108:A:LYS:HG2	2	0.62
(1,343)	1:108:A:LYS:H	1:108:A:LYS:HG2	5	0.62
(1,343)	1:108:A:LYS:H	1:108:A:LYS:HG2	6	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,343)	1:108:A:LYS:H	1:108:A:LYS:HG2	8	0.62
(1,343)	1:108:A:LYS:H	1:108:A:LYS:HG2	9	0.62
(1,96)	1:36:A:LEU:HA	1:51:A:LEU:HG	1	0.62
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG11	9	0.61
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG12	9	0.61
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG13	9	0.61
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG21	9	0.61
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG22	9	0.61
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG23	9	0.61
(1,343)	1:108:A:LYS:H	1:108:A:LYS:HG2	4	0.61
(1,343)	1:108:A:LYS:H	1:108:A:LYS:HG2	7	0.61
(1,343)	1:108:A:LYS:H	1:108:A:LYS:HG2	10	0.61
(1,281)	1:120:A:GLN:HG2	1:121:A:ILE:HD11	10	0.61
(1,281)	1:120:A:GLN:HG2	1:121:A:ILE:HD12	10	0.61
(1,281)	1:120:A:GLN:HG2	1:121:A:ILE:HD13	10	0.61
(1,281)	1:120:A:GLN:HG3	1:121:A:ILE:HD11	10	0.61
(1,281)	1:120:A:GLN:HG3	1:121:A:ILE:HD12	10	0.61
(1,281)	1:120:A:GLN:HG3	1:121:A:ILE:HD13	10	0.61
(1,243)	1:49:A:ASP:HB3	1:50:A:SER:HB2	9	0.61
(1,243)	1:49:A:ASP:HB3	1:50:A:SER:HB3	9	0.61
(1,1030)	1:93:A:SER:HB2	1:94:A:GLN:HA	3	0.6
(1,1030)	1:93:A:SER:HB3	1:94:A:GLN:HA	3	0.6
(1,720)	1:98:A:LEU:HB2	1:103:A:ASP:H	1	0.6
(1,720)	1:98:A:LEU:HB2	1:103:A:ASP:H	4	0.6
(1,620)	1:88:A:ASN:HD22	1:91:A:LEU:HD11	1	0.6
(1,620)	1:88:A:ASN:HD22	1:91:A:LEU:HD12	1	0.6
(1,620)	1:88:A:ASN:HD22	1:91:A:LEU:HD13	1	0.6
(1,620)	1:88:A:ASN:HD22	1:91:A:LEU:HD11	10	0.6
(1,620)	1:88:A:ASN:HD22	1:91:A:LEU:HD12	10	0.6
(1,620)	1:88:A:ASN:HD22	1:91:A:LEU:HD13	10	0.6
(1,567)	1:28:A:GLU:HG2	1:29:A:ASN:H	10	0.6
(1,567)	1:28:A:GLU:HG3	1:29:A:ASN:H	10	0.6
(1,307)	1:108:A:LYS:H	1:108:A:LYS:HG3	4	0.6
(1,307)	1:108:A:LYS:H	1:108:A:LYS:HG3	7	0.6
(1,307)	1:108:A:LYS:H	1:108:A:LYS:HG3	10	0.6
(1,929)	1:50:A:SER:HA	1:53:A:LYS:HG2	10	0.59
(1,929)	1:50:A:SER:HA	1:53:A:LYS:HG3	10	0.59
(1,720)	1:98:A:LEU:HB2	1:103:A:ASP:H	2	0.59
(1,688)	1:84:A:LEU:HD21	1:120:A:GLN:HE22	6	0.59
(1,688)	1:84:A:LEU:HD22	1:120:A:GLN:HE22	6	0.59
(1,688)	1:84:A:LEU:HD23	1:120:A:GLN:HE22	6	0.59
(1,567)	1:28:A:GLU:HG2	1:29:A:ASN:H	6	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,567)	1:28:A:GLU:HG3	1:29:A:ASN:H	6	0.59
(1,307)	1:108:A:LYS:H	1:108:A:LYS:HG3	1	0.59
(1,307)	1:108:A:LYS:H	1:108:A:LYS:HG3	2	0.59
(1,307)	1:108:A:LYS:H	1:108:A:LYS:HG3	5	0.59
(1,307)	1:108:A:LYS:H	1:108:A:LYS:HG3	6	0.59
(1,307)	1:108:A:LYS:H	1:108:A:LYS:HG3	8	0.59
(1,307)	1:108:A:LYS:H	1:108:A:LYS:HG3	9	0.59
(1,281)	1:120:A:GLN:HG2	1:121:A:ILE:HD11	1	0.59
(1,281)	1:120:A:GLN:HG2	1:121:A:ILE:HD12	1	0.59
(1,281)	1:120:A:GLN:HG2	1:121:A:ILE:HD13	1	0.59
(1,281)	1:120:A:GLN:HG3	1:121:A:ILE:HD11	1	0.59
(1,281)	1:120:A:GLN:HG3	1:121:A:ILE:HD12	1	0.59
(1,281)	1:120:A:GLN:HG3	1:121:A:ILE:HD13	1	0.59
(1,281)	1:120:A:GLN:HG2	1:121:A:ILE:HD11	8	0.59
(1,281)	1:120:A:GLN:HG2	1:121:A:ILE:HD12	8	0.59
(1,281)	1:120:A:GLN:HG2	1:121:A:ILE:HD13	8	0.59
(1,281)	1:120:A:GLN:HG3	1:121:A:ILE:HD11	8	0.59
(1,281)	1:120:A:GLN:HG3	1:121:A:ILE:HD12	8	0.59
(1,281)	1:120:A:GLN:HG3	1:121:A:ILE:HD13	8	0.59
(1,54)	1:95:A:LEU:HD11	1:107:A:ALA:HA	2	0.59
(1,54)	1:95:A:LEU:HD12	1:107:A:ALA:HA	2	0.59
(1,54)	1:95:A:LEU:HD13	1:107:A:ALA:HA	2	0.59
(1,793)	1:6:A:HIS:HB2	1:7:A:GLU:HG2	5	0.58
(1,793)	1:6:A:HIS:HB2	1:7:A:GLU:HG3	5	0.58
(1,793)	1:6:A:HIS:HB3	1:7:A:GLU:HG2	5	0.58
(1,793)	1:6:A:HIS:HB3	1:7:A:GLU:HG3	5	0.58
(1,307)	1:108:A:LYS:H	1:108:A:LYS:HG3	3	0.58
(1,96)	1:36:A:LEU:HA	1:51:A:LEU:HG	7	0.58
(1,59)	1:95:A:LEU:HD11	1:107:A:ALA:HB1	4	0.58
(1,59)	1:95:A:LEU:HD11	1:107:A:ALA:HB2	4	0.58
(1,59)	1:95:A:LEU:HD11	1:107:A:ALA:HB3	4	0.58
(1,59)	1:95:A:LEU:HD12	1:107:A:ALA:HB1	4	0.58
(1,59)	1:95:A:LEU:HD12	1:107:A:ALA:HB2	4	0.58
(1,59)	1:95:A:LEU:HD12	1:107:A:ALA:HB3	4	0.58
(1,59)	1:95:A:LEU:HD13	1:107:A:ALA:HB1	4	0.58
(1,59)	1:95:A:LEU:HD13	1:107:A:ALA:HB2	4	0.58
(1,59)	1:95:A:LEU:HD13	1:107:A:ALA:HB3	4	0.58
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD11	9	0.57
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD12	9	0.57
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD13	9	0.57
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD21	9	0.57
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD22	9	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD23	9	0.57
(1,798)	1:13:A:SER:HB2	1:16:A:LYS:H	3	0.57
(1,798)	1:13:A:SER:HB3	1:16:A:LYS:H	3	0.57
(1,720)	1:98:A:LEU:HB2	1:103:A:ASP:H	7	0.57
(1,281)	1:120:A:GLN:HG2	1:121:A:ILE:HD11	3	0.57
(1,281)	1:120:A:GLN:HG2	1:121:A:ILE:HD12	3	0.57
(1,281)	1:120:A:GLN:HG2	1:121:A:ILE:HD13	3	0.57
(1,281)	1:120:A:GLN:HG3	1:121:A:ILE:HD11	3	0.57
(1,281)	1:120:A:GLN:HG3	1:121:A:ILE:HD12	3	0.57
(1,281)	1:120:A:GLN:HG3	1:121:A:ILE:HD13	3	0.57
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD11	7	0.56
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD12	7	0.56
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD13	7	0.56
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD21	7	0.56
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD22	7	0.56
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD23	7	0.56
(1,1056)	1:99:A:PHE:H	1:103:A:ASP:HB2	4	0.56
(1,1056)	1:99:A:PHE:H	1:103:A:ASP:HB3	4	0.56
(1,220)	1:95:A:LEU:HG	1:110:A:VAL:HG21	8	0.56
(1,220)	1:95:A:LEU:HG	1:110:A:VAL:HG22	8	0.56
(1,220)	1:95:A:LEU:HG	1:110:A:VAL:HG23	8	0.56
(1,59)	1:95:A:LEU:HD11	1:107:A:ALA:HB1	10	0.56
(1,59)	1:95:A:LEU:HD11	1:107:A:ALA:HB2	10	0.56
(1,59)	1:95:A:LEU:HD11	1:107:A:ALA:HB3	10	0.56
(1,59)	1:95:A:LEU:HD12	1:107:A:ALA:HB1	10	0.56
(1,59)	1:95:A:LEU:HD12	1:107:A:ALA:HB2	10	0.56
(1,59)	1:95:A:LEU:HD12	1:107:A:ALA:HB3	10	0.56
(1,59)	1:95:A:LEU:HD13	1:107:A:ALA:HB1	10	0.56
(1,59)	1:95:A:LEU:HD13	1:107:A:ALA:HB2	10	0.56
(1,59)	1:95:A:LEU:HD13	1:107:A:ALA:HB3	10	0.56
(1,951)	1:54:A:GLN:H	1:54:A:GLN:HG2	9	0.55
(1,951)	1:54:A:GLN:H	1:54:A:GLN:HG3	9	0.55
(1,793)	1:6:A:HIS:HB2	1:7:A:GLU:HG2	8	0.55
(1,793)	1:6:A:HIS:HB2	1:7:A:GLU:HG3	8	0.55
(1,793)	1:6:A:HIS:HB3	1:7:A:GLU:HG2	8	0.55
(1,793)	1:6:A:HIS:HB3	1:7:A:GLU:HG3	8	0.55
(1,387)	1:104:A:GLU:H	1:104:A:GLU:HG2	2	0.55
(1,387)	1:104:A:GLU:H	1:104:A:GLU:HG2	6	0.55
(1,281)	1:120:A:GLN:HG2	1:121:A:ILE:HD11	7	0.55
(1,281)	1:120:A:GLN:HG2	1:121:A:ILE:HD12	7	0.55
(1,281)	1:120:A:GLN:HG2	1:121:A:ILE:HD13	7	0.55
(1,281)	1:120:A:GLN:HG3	1:121:A:ILE:HD11	7	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,281)	1:120:A:GLN:HG3	1:121:A:ILE:HD12	7	0.55
(1,281)	1:120:A:GLN:HG3	1:121:A:ILE:HD13	7	0.55
(1,238)	1:54:A:GLN:HG2	1:55:A:LEU:H	2	0.55
(1,238)	1:54:A:GLN:HG2	1:55:A:LEU:H	10	0.55
(1,147)	1:40:A:PHE:HA	1:48:A:VAL:HG11	3	0.55
(1,147)	1:40:A:PHE:HA	1:48:A:VAL:HG12	3	0.55
(1,147)	1:40:A:PHE:HA	1:48:A:VAL:HG13	3	0.55
(1,834)	1:24:A:LYS:HG2	1:25:A:LEU:HB2	6	0.54
(1,834)	1:24:A:LYS:HG2	1:25:A:LEU:HB3	6	0.54
(1,834)	1:24:A:LYS:HG3	1:25:A:LEU:HB2	6	0.54
(1,834)	1:24:A:LYS:HG3	1:25:A:LEU:HB3	6	0.54
(1,696)	1:129:A:GLN:H	1:129:A:GLN:HE21	10	0.54
(1,696)	1:129:A:GLN:H	1:129:A:GLN:HE22	10	0.54
(1,688)	1:84:A:LEU:HD21	1:120:A:GLN:HE22	4	0.54
(1,688)	1:84:A:LEU:HD22	1:120:A:GLN:HE22	4	0.54
(1,688)	1:84:A:LEU:HD23	1:120:A:GLN:HE22	4	0.54
(1,281)	1:120:A:GLN:HG2	1:121:A:ILE:HD11	2	0.54
(1,281)	1:120:A:GLN:HG2	1:121:A:ILE:HD12	2	0.54
(1,281)	1:120:A:GLN:HG2	1:121:A:ILE:HD13	2	0.54
(1,281)	1:120:A:GLN:HG3	1:121:A:ILE:HD11	2	0.54
(1,281)	1:120:A:GLN:HG3	1:121:A:ILE:HD12	2	0.54
(1,281)	1:120:A:GLN:HG3	1:121:A:ILE:HD13	2	0.54
(1,238)	1:54:A:GLN:HG2	1:55:A:LEU:H	8	0.54
(1,155)	1:67:A:GLN:HG2	1:68:A:ARG:H	6	0.54
(1,155)	1:67:A:GLN:HG3	1:68:A:ARG:H	6	0.54
(1,136)	1:120:A:GLN:HA	1:124:A:ILE:HD11	10	0.54
(1,136)	1:120:A:GLN:HA	1:124:A:ILE:HD12	10	0.54
(1,136)	1:120:A:GLN:HA	1:124:A:ILE:HD13	10	0.54
(1,1056)	1:99:A:PHE:H	1:103:A:ASP:HB2	8	0.53
(1,1056)	1:99:A:PHE:H	1:103:A:ASP:HB3	8	0.53
(1,238)	1:54:A:GLN:HG2	1:55:A:LEU:H	3	0.53
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD11	1	0.52
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD12	1	0.52
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD13	1	0.52
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD21	1	0.52
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD22	1	0.52
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD23	1	0.52
(1,1056)	1:99:A:PHE:H	1:103:A:ASP:HB2	10	0.52
(1,1056)	1:99:A:PHE:H	1:103:A:ASP:HB3	10	0.52
(1,720)	1:98:A:LEU:HB2	1:103:A:ASP:H	5	0.52
(1,620)	1:88:A:ASN:HD22	1:91:A:LEU:HD11	6	0.52
(1,620)	1:88:A:ASN:HD22	1:91:A:LEU:HD12	6	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,620)	1:88:A:ASN:HD22	1:91:A:LEU:HD13	6	0.52
(1,545)	1:123:A:GLN:H	1:124:A:ILE:HD11	1	0.52
(1,545)	1:123:A:GLN:H	1:124:A:ILE:HD12	1	0.52
(1,545)	1:123:A:GLN:H	1:124:A:ILE:HD13	1	0.52
(1,238)	1:54:A:GLN:HG2	1:55:A:LEU:H	4	0.52
(1,238)	1:54:A:GLN:HG2	1:55:A:LEU:H	6	0.52
(1,155)	1:67:A:GLN:HG2	1:68:A:ARG:H	8	0.52
(1,155)	1:67:A:GLN:HG3	1:68:A:ARG:H	8	0.52
(1,1)	1:95:A:LEU:HD21	1:107:A:ALA:HB1	6	0.52
(1,1)	1:95:A:LEU:HD21	1:107:A:ALA:HB2	6	0.52
(1,1)	1:95:A:LEU:HD21	1:107:A:ALA:HB3	6	0.52
(1,1)	1:95:A:LEU:HD22	1:107:A:ALA:HB1	6	0.52
(1,1)	1:95:A:LEU:HD22	1:107:A:ALA:HB2	6	0.52
(1,1)	1:95:A:LEU:HD22	1:107:A:ALA:HB3	6	0.52
(1,1)	1:95:A:LEU:HD23	1:107:A:ALA:HB1	6	0.52
(1,1)	1:95:A:LEU:HD23	1:107:A:ALA:HB2	6	0.52
(1,1)	1:95:A:LEU:HD23	1:107:A:ALA:HB3	6	0.52
(1,720)	1:98:A:LEU:HB2	1:103:A:ASP:H	8	0.51
(1,620)	1:88:A:ASN:HD22	1:91:A:LEU:HD11	7	0.51
(1,620)	1:88:A:ASN:HD22	1:91:A:LEU:HD12	7	0.51
(1,620)	1:88:A:ASN:HD22	1:91:A:LEU:HD13	7	0.51
(1,261)	1:124:A:ILE:HD11	1:127:A:GLU:HB3	3	0.51
(1,261)	1:124:A:ILE:HD12	1:127:A:GLU:HB3	3	0.51
(1,261)	1:124:A:ILE:HD13	1:127:A:GLU:HB3	3	0.51
(1,238)	1:54:A:GLN:HG2	1:55:A:LEU:H	1	0.51
(1,238)	1:54:A:GLN:HG2	1:55:A:LEU:H	5	0.51
(1,155)	1:67:A:GLN:HG2	1:68:A:ARG:H	1	0.51
(1,155)	1:67:A:GLN:HG3	1:68:A:ARG:H	1	0.51
(1,155)	1:67:A:GLN:HG2	1:68:A:ARG:H	2	0.51
(1,155)	1:67:A:GLN:HG3	1:68:A:ARG:H	2	0.51
(1,155)	1:67:A:GLN:HG2	1:68:A:ARG:H	4	0.51
(1,155)	1:67:A:GLN:HG3	1:68:A:ARG:H	4	0.51
(1,1063)	1:104:A:GLU:HG2	1:105:A:ASP:H	7	0.5
(1,1063)	1:104:A:GLU:HG3	1:105:A:ASP:H	7	0.5
(1,952)	1:54:A:GLN:HB2	1:54:A:GLN:HE21	9	0.5
(1,952)	1:54:A:GLN:HB2	1:54:A:GLN:HE22	9	0.5
(1,952)	1:54:A:GLN:HB3	1:54:A:GLN:HE21	9	0.5
(1,952)	1:54:A:GLN:HB3	1:54:A:GLN:HE22	9	0.5
(1,929)	1:50:A:SER:HA	1:53:A:LYS:HG2	4	0.5
(1,929)	1:50:A:SER:HA	1:53:A:LYS:HG3	4	0.5
(1,696)	1:129:A:GLN:H	1:129:A:GLN:HE21	4	0.5
(1,696)	1:129:A:GLN:H	1:129:A:GLN:HE22	4	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,545)	1:123:A:GLN:H	1:124:A:ILE:HD11	3	0.5
(1,545)	1:123:A:GLN:H	1:124:A:ILE:HD12	3	0.5
(1,545)	1:123:A:GLN:H	1:124:A:ILE:HD13	3	0.5
(1,545)	1:123:A:GLN:H	1:124:A:ILE:HD11	8	0.5
(1,545)	1:123:A:GLN:H	1:124:A:ILE:HD12	8	0.5
(1,545)	1:123:A:GLN:H	1:124:A:ILE:HD13	8	0.5
(1,155)	1:67:A:GLN:HG2	1:68:A:ARG:H	3	0.5
(1,155)	1:67:A:GLN:HG3	1:68:A:ARG:H	3	0.5
(1,155)	1:67:A:GLN:HG2	1:68:A:ARG:H	7	0.5
(1,155)	1:67:A:GLN:HG3	1:68:A:ARG:H	7	0.5
(1,155)	1:67:A:GLN:HG2	1:68:A:ARG:H	10	0.5
(1,155)	1:67:A:GLN:HG3	1:68:A:ARG:H	10	0.5
(1,128)	1:104:A:GLU:H	1:104:A:GLU:HG3	2	0.5
(1,128)	1:104:A:GLU:H	1:104:A:GLU:HG3	6	0.5
(1,59)	1:95:A:LEU:HD11	1:107:A:ALA:HB1	9	0.5
(1,59)	1:95:A:LEU:HD11	1:107:A:ALA:HB2	9	0.5
(1,59)	1:95:A:LEU:HD11	1:107:A:ALA:HB3	9	0.5
(1,59)	1:95:A:LEU:HD12	1:107:A:ALA:HB1	9	0.5
(1,59)	1:95:A:LEU:HD12	1:107:A:ALA:HB2	9	0.5
(1,59)	1:95:A:LEU:HD12	1:107:A:ALA:HB3	9	0.5
(1,59)	1:95:A:LEU:HD13	1:107:A:ALA:HB1	9	0.5
(1,59)	1:95:A:LEU:HD13	1:107:A:ALA:HB2	9	0.5
(1,59)	1:95:A:LEU:HD13	1:107:A:ALA:HB3	9	0.5
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD11	2	0.49
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD12	2	0.49
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD13	2	0.49
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD21	2	0.49
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD22	2	0.49
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD23	2	0.49
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD11	10	0.49
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD12	10	0.49
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD13	10	0.49
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD21	10	0.49
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD22	10	0.49
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD23	10	0.49
(1,1063)	1:104:A:GLU:HG2	1:105:A:ASP:H	1	0.49
(1,1063)	1:104:A:GLU:HG3	1:105:A:ASP:H	1	0.49
(1,1063)	1:104:A:GLU:HG2	1:105:A:ASP:H	3	0.49
(1,1063)	1:104:A:GLU:HG3	1:105:A:ASP:H	3	0.49
(1,1063)	1:104:A:GLU:HG2	1:105:A:ASP:H	5	0.49
(1,1063)	1:104:A:GLU:HG3	1:105:A:ASP:H	5	0.49
(1,1063)	1:104:A:GLU:HG2	1:105:A:ASP:H	9	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1063)	1:104:A:GLU:HG3	1:105:A:ASP:H	9	0.49
(1,1056)	1:99:A:PHE:H	1:103:A:ASP:HB2	2	0.49
(1,1056)	1:99:A:PHE:H	1:103:A:ASP:HB3	2	0.49
(1,861)	1:34:A:THR:HG21	1:35:A:ARG:HG2	2	0.49
(1,861)	1:34:A:THR:HG21	1:35:A:ARG:HG3	2	0.49
(1,861)	1:34:A:THR:HG22	1:35:A:ARG:HG2	2	0.49
(1,861)	1:34:A:THR:HG22	1:35:A:ARG:HG3	2	0.49
(1,861)	1:34:A:THR:HG23	1:35:A:ARG:HG2	2	0.49
(1,861)	1:34:A:THR:HG23	1:35:A:ARG:HG3	2	0.49
(1,620)	1:88:A:ASN:HD22	1:91:A:LEU:HD11	4	0.49
(1,620)	1:88:A:ASN:HD22	1:91:A:LEU:HD12	4	0.49
(1,620)	1:88:A:ASN:HD22	1:91:A:LEU:HD13	4	0.49
(1,545)	1:123:A:GLN:H	1:124:A:ILE:HD11	10	0.49
(1,545)	1:123:A:GLN:H	1:124:A:ILE:HD12	10	0.49
(1,545)	1:123:A:GLN:H	1:124:A:ILE:HD13	10	0.49
(1,155)	1:67:A:GLN:HG2	1:68:A:ARG:H	5	0.49
(1,155)	1:67:A:GLN:HG3	1:68:A:ARG:H	5	0.49
(1,8)	1:95:A:LEU:HD21	1:107:A:ALA:HA	6	0.49
(1,8)	1:95:A:LEU:HD22	1:107:A:ALA:HA	6	0.49
(1,8)	1:95:A:LEU:HD23	1:107:A:ALA:HA	6	0.49
(1,1063)	1:104:A:GLU:HG2	1:105:A:ASP:H	10	0.47
(1,1063)	1:104:A:GLU:HG3	1:105:A:ASP:H	10	0.47
(1,1035)	1:94:A:GLN:HE21	1:110:A:VAL:HG11	3	0.47
(1,1035)	1:94:A:GLN:HE21	1:110:A:VAL:HG12	3	0.47
(1,1035)	1:94:A:GLN:HE21	1:110:A:VAL:HG13	3	0.47
(1,1035)	1:94:A:GLN:HE22	1:110:A:VAL:HG11	3	0.47
(1,1035)	1:94:A:GLN:HE22	1:110:A:VAL:HG12	3	0.47
(1,1035)	1:94:A:GLN:HE22	1:110:A:VAL:HG13	3	0.47
(1,1013)	1:88:A:ASN:HD21	1:91:A:LEU:HD11	8	0.47
(1,1013)	1:88:A:ASN:HD21	1:91:A:LEU:HD12	8	0.47
(1,1013)	1:88:A:ASN:HD21	1:91:A:LEU:HD13	8	0.47
(1,1013)	1:88:A:ASN:HD22	1:91:A:LEU:HD11	8	0.47
(1,1013)	1:88:A:ASN:HD22	1:91:A:LEU:HD12	8	0.47
(1,1013)	1:88:A:ASN:HD22	1:91:A:LEU:HD13	8	0.47
(1,987)	1:76:A:GLU:HA	1:79:A:ARG:HD2	2	0.47
(1,987)	1:76:A:GLU:HA	1:79:A:ARG:HD3	2	0.47
(1,987)	1:76:A:GLU:HA	1:79:A:ARG:HD2	3	0.47
(1,987)	1:76:A:GLU:HA	1:79:A:ARG:HD3	3	0.47
(1,987)	1:76:A:GLU:HA	1:79:A:ARG:HD2	5	0.47
(1,987)	1:76:A:GLU:HA	1:79:A:ARG:HD3	5	0.47
(1,1113)	1:130:A:LYS:HA	1:130:A:LYS:HD2	2	0.46
(1,1113)	1:130:A:LYS:HA	1:130:A:LYS:HD3	2	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1113)	1:130:A:LYS:HA	1:130:A:LYS:HD2	3	0.46
(1,1113)	1:130:A:LYS:HA	1:130:A:LYS:HD3	3	0.46
(1,1113)	1:130:A:LYS:HA	1:130:A:LYS:HD2	8	0.46
(1,1113)	1:130:A:LYS:HA	1:130:A:LYS:HD3	8	0.46
(1,987)	1:76:A:GLU:HA	1:79:A:ARG:HD2	1	0.46
(1,987)	1:76:A:GLU:HA	1:79:A:ARG:HD3	1	0.46
(1,835)	1:24:A:LYS:HG2	1:26:A:TRP:H	1	0.46
(1,835)	1:24:A:LYS:HG3	1:26:A:TRP:H	1	0.46
(1,835)	1:24:A:LYS:HG2	1:26:A:TRP:H	8	0.46
(1,835)	1:24:A:LYS:HG3	1:26:A:TRP:H	8	0.46
(1,688)	1:84:A:LEU:HD21	1:120:A:GLN:HE22	5	0.46
(1,688)	1:84:A:LEU:HD22	1:120:A:GLN:HE22	5	0.46
(1,688)	1:84:A:LEU:HD23	1:120:A:GLN:HE22	5	0.46
(1,620)	1:88:A:ASN:HD22	1:91:A:LEU:HD11	2	0.46
(1,620)	1:88:A:ASN:HD22	1:91:A:LEU:HD12	2	0.46
(1,620)	1:88:A:ASN:HD22	1:91:A:LEU:HD13	2	0.46
(1,220)	1:95:A:LEU:HG	1:110:A:VAL:HG21	10	0.46
(1,220)	1:95:A:LEU:HG	1:110:A:VAL:HG22	10	0.46
(1,220)	1:95:A:LEU:HG	1:110:A:VAL:HG23	10	0.46
(1,1113)	1:130:A:LYS:HA	1:130:A:LYS:HD2	1	0.45
(1,1113)	1:130:A:LYS:HA	1:130:A:LYS:HD3	1	0.45
(1,1113)	1:130:A:LYS:HA	1:130:A:LYS:HD2	6	0.45
(1,1113)	1:130:A:LYS:HA	1:130:A:LYS:HD3	6	0.45
(1,1113)	1:130:A:LYS:HA	1:130:A:LYS:HD2	7	0.45
(1,1113)	1:130:A:LYS:HA	1:130:A:LYS:HD3	7	0.45
(1,1113)	1:130:A:LYS:HA	1:130:A:LYS:HD2	9	0.45
(1,1113)	1:130:A:LYS:HA	1:130:A:LYS:HD3	9	0.45
(1,1056)	1:99:A:PHE:H	1:103:A:ASP:HB2	6	0.45
(1,1056)	1:99:A:PHE:H	1:103:A:ASP:HB3	6	0.45
(1,835)	1:24:A:LYS:HG2	1:26:A:TRP:H	4	0.45
(1,835)	1:24:A:LYS:HG3	1:26:A:TRP:H	4	0.45
(1,835)	1:24:A:LYS:HG2	1:26:A:TRP:H	5	0.45
(1,835)	1:24:A:LYS:HG3	1:26:A:TRP:H	5	0.45
(1,270)	1:29:A:ASN:HA	1:32:A:LEU:HD21	5	0.45
(1,270)	1:29:A:ASN:HA	1:32:A:LEU:HD22	5	0.45
(1,270)	1:29:A:ASN:HA	1:32:A:LEU:HD23	5	0.45
(1,220)	1:95:A:LEU:HG	1:110:A:VAL:HG21	5	0.45
(1,220)	1:95:A:LEU:HG	1:110:A:VAL:HG22	5	0.45
(1,220)	1:95:A:LEU:HG	1:110:A:VAL:HG23	5	0.45
(1,1113)	1:130:A:LYS:HA	1:130:A:LYS:HD2	4	0.44
(1,1113)	1:130:A:LYS:HA	1:130:A:LYS:HD3	4	0.44
(1,1113)	1:130:A:LYS:HA	1:130:A:LYS:HD2	10	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1113)	1:130:A:LYS:HA	1:130:A:LYS:HD3	10	0.44
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD11	4	0.44
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD12	4	0.44
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD13	4	0.44
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD21	4	0.44
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD22	4	0.44
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD23	4	0.44
(1,1063)	1:104:A:GLU:HG2	1:105:A:ASP:H	4	0.44
(1,1063)	1:104:A:GLU:HG3	1:105:A:ASP:H	4	0.44
(1,952)	1:54:A:GLN:HB2	1:54:A:GLN:HE21	7	0.44
(1,952)	1:54:A:GLN:HB2	1:54:A:GLN:HE22	7	0.44
(1,952)	1:54:A:GLN:HB3	1:54:A:GLN:HE21	7	0.44
(1,952)	1:54:A:GLN:HB3	1:54:A:GLN:HE22	7	0.44
(1,835)	1:24:A:LYS:HG2	1:26:A:TRP:H	7	0.44
(1,835)	1:24:A:LYS:HG3	1:26:A:TRP:H	7	0.44
(1,737)	1:33:A:TRP:HE1	1:37:A:VAL:HG11	10	0.44
(1,737)	1:33:A:TRP:HE1	1:37:A:VAL:HG12	10	0.44
(1,737)	1:33:A:TRP:HE1	1:37:A:VAL:HG13	10	0.44
(1,604)	1:39:A:ALA:H	1:47:A:THR:HG21	10	0.44
(1,604)	1:39:A:ALA:H	1:47:A:THR:HG22	10	0.44
(1,604)	1:39:A:ALA:H	1:47:A:THR:HG23	10	0.44
(1,471)	1:120:A:GLN:H	1:120:A:GLN:HG2	9	0.44
(1,471)	1:120:A:GLN:H	1:120:A:GLN:HG3	9	0.44
(1,429)	1:54:A:GLN:HG3	1:55:A:LEU:H	7	0.44
(1,251)	1:125:A:ILE:HG21	1:129:A:GLN:HE21	3	0.44
(1,251)	1:125:A:ILE:HG21	1:129:A:GLN:HE22	3	0.44
(1,251)	1:125:A:ILE:HG22	1:129:A:GLN:HE21	3	0.44
(1,251)	1:125:A:ILE:HG22	1:129:A:GLN:HE22	3	0.44
(1,251)	1:125:A:ILE:HG23	1:129:A:GLN:HE21	3	0.44
(1,251)	1:125:A:ILE:HG23	1:129:A:GLN:HE22	3	0.44
(1,55)	1:40:A:PHE:HD1	1:48:A:VAL:HG11	9	0.44
(1,55)	1:40:A:PHE:HD1	1:48:A:VAL:HG12	9	0.44
(1,55)	1:40:A:PHE:HD1	1:48:A:VAL:HG13	9	0.44
(1,55)	1:40:A:PHE:HD2	1:48:A:VAL:HG11	9	0.44
(1,55)	1:40:A:PHE:HD2	1:48:A:VAL:HG12	9	0.44
(1,55)	1:40:A:PHE:HD2	1:48:A:VAL:HG13	9	0.44
(1,48)	1:35:A:ARG:HA	1:35:A:ARG:HD2	2	0.44
(1,48)	1:35:A:ARG:HA	1:35:A:ARG:HD2	3	0.44
(1,48)	1:35:A:ARG:HA	1:35:A:ARG:HD2	6	0.44
(1,1063)	1:104:A:GLU:HG2	1:105:A:ASP:H	8	0.43
(1,1063)	1:104:A:GLU:HG3	1:105:A:ASP:H	8	0.43
(1,987)	1:76:A:GLU:HA	1:79:A:ARG:HD2	7	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,987)	1:76:A:GLU:HA	1:79:A:ARG:HD3	7	0.43
(1,929)	1:50:A:SER:HA	1:53:A:LYS:HG2	3	0.43
(1,929)	1:50:A:SER:HA	1:53:A:LYS:HG3	3	0.43
(1,835)	1:24:A:LYS:HG2	1:26:A:TRP:H	2	0.43
(1,835)	1:24:A:LYS:HG3	1:26:A:TRP:H	2	0.43
(1,835)	1:24:A:LYS:HG2	1:26:A:TRP:H	3	0.43
(1,835)	1:24:A:LYS:HG3	1:26:A:TRP:H	3	0.43
(1,835)	1:24:A:LYS:HG2	1:26:A:TRP:H	9	0.43
(1,835)	1:24:A:LYS:HG3	1:26:A:TRP:H	9	0.43
(1,737)	1:33:A:TRP:HE1	1:37:A:VAL:HG11	5	0.43
(1,737)	1:33:A:TRP:HE1	1:37:A:VAL:HG12	5	0.43
(1,737)	1:33:A:TRP:HE1	1:37:A:VAL:HG13	5	0.43
(1,620)	1:88:A:ASN:HD22	1:91:A:LEU:HD11	3	0.43
(1,620)	1:88:A:ASN:HD22	1:91:A:LEU:HD12	3	0.43
(1,620)	1:88:A:ASN:HD22	1:91:A:LEU:HD13	3	0.43
(1,201)	1:6:A:HIS:HA	1:7:A:GLU:HG2	3	0.43
(1,201)	1:6:A:HIS:HA	1:7:A:GLU:HG3	3	0.43
(1,48)	1:35:A:ARG:HA	1:35:A:ARG:HD2	4	0.43
(1,48)	1:35:A:ARG:HA	1:35:A:ARG:HD2	5	0.43
(1,48)	1:35:A:ARG:HA	1:35:A:ARG:HD2	7	0.43
(1,48)	1:35:A:ARG:HA	1:35:A:ARG:HD2	8	0.43
(1,48)	1:35:A:ARG:HA	1:35:A:ARG:HD2	9	0.43
(1,1056)	1:99:A:PHE:H	1:103:A:ASP:HB2	7	0.42
(1,1056)	1:99:A:PHE:H	1:103:A:ASP:HB3	7	0.42
(1,763)	1:67:A:GLN:HG2	1:69:A:ILE:H	2	0.42
(1,763)	1:67:A:GLN:HG3	1:69:A:ILE:H	2	0.42
(1,763)	1:67:A:GLN:HG2	1:69:A:ILE:H	6	0.42
(1,763)	1:67:A:GLN:HG3	1:69:A:ILE:H	6	0.42
(1,759)	1:129:A:GLN:HA	1:129:A:GLN:HE21	2	0.42
(1,759)	1:129:A:GLN:HA	1:129:A:GLN:HE22	2	0.42
(1,720)	1:98:A:LEU:HB2	1:103:A:ASP:H	10	0.42
(1,59)	1:95:A:LEU:HD11	1:107:A:ALA:HB1	5	0.42
(1,59)	1:95:A:LEU:HD11	1:107:A:ALA:HB2	5	0.42
(1,59)	1:95:A:LEU:HD11	1:107:A:ALA:HB3	5	0.42
(1,59)	1:95:A:LEU:HD12	1:107:A:ALA:HB1	5	0.42
(1,59)	1:95:A:LEU:HD12	1:107:A:ALA:HB2	5	0.42
(1,59)	1:95:A:LEU:HD12	1:107:A:ALA:HB3	5	0.42
(1,59)	1:95:A:LEU:HD13	1:107:A:ALA:HB1	5	0.42
(1,59)	1:95:A:LEU:HD13	1:107:A:ALA:HB2	5	0.42
(1,59)	1:95:A:LEU:HD13	1:107:A:ALA:HB3	5	0.42
(1,54)	1:95:A:LEU:HD11	1:107:A:ALA:HA	8	0.42
(1,54)	1:95:A:LEU:HD12	1:107:A:ALA:HA	8	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,54)	1:95:A:LEU:HD13	1:107:A:ALA:HA	8	0.42
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD11	8	0.41
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD12	8	0.41
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD13	8	0.41
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD21	8	0.41
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD22	8	0.41
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD23	8	0.41
(1,991)	1:79:A:ARG:H	1:79:A:ARG:HD2	5	0.41
(1,991)	1:79:A:ARG:H	1:79:A:ARG:HD3	5	0.41
(1,763)	1:67:A:GLN:HG2	1:69:A:ILE:H	5	0.41
(1,763)	1:67:A:GLN:HG3	1:69:A:ILE:H	5	0.41
(1,763)	1:67:A:GLN:HG2	1:69:A:ILE:H	10	0.41
(1,763)	1:67:A:GLN:HG3	1:69:A:ILE:H	10	0.41
(1,620)	1:88:A:ASN:HD22	1:91:A:LEU:HD11	9	0.41
(1,620)	1:88:A:ASN:HD22	1:91:A:LEU:HD12	9	0.41
(1,620)	1:88:A:ASN:HD22	1:91:A:LEU:HD13	9	0.41
(1,479)	1:127:A:GLU:H	1:127:A:GLU:HB3	3	0.41
(1,479)	1:127:A:GLU:H	1:127:A:GLU:HB3	4	0.41
(1,479)	1:127:A:GLU:H	1:127:A:GLU:HB3	7	0.41
(1,479)	1:127:A:GLU:H	1:127:A:GLU:HB3	8	0.41
(1,1087)	1:115:A:GLN:H	1:115:A:GLN:HG2	2	0.4
(1,1087)	1:115:A:GLN:H	1:115:A:GLN:HG3	2	0.4
(1,1087)	1:115:A:GLN:H	1:115:A:GLN:HG2	3	0.4
(1,1087)	1:115:A:GLN:H	1:115:A:GLN:HG3	3	0.4
(1,1087)	1:115:A:GLN:H	1:115:A:GLN:HG2	4	0.4
(1,1087)	1:115:A:GLN:H	1:115:A:GLN:HG3	4	0.4
(1,1087)	1:115:A:GLN:H	1:115:A:GLN:HG2	5	0.4
(1,1087)	1:115:A:GLN:H	1:115:A:GLN:HG3	5	0.4
(1,1087)	1:115:A:GLN:H	1:115:A:GLN:HG2	6	0.4
(1,1087)	1:115:A:GLN:H	1:115:A:GLN:HG3	6	0.4
(1,1087)	1:115:A:GLN:H	1:115:A:GLN:HG2	7	0.4
(1,1087)	1:115:A:GLN:H	1:115:A:GLN:HG3	7	0.4
(1,1087)	1:115:A:GLN:H	1:115:A:GLN:HG2	8	0.4
(1,1087)	1:115:A:GLN:H	1:115:A:GLN:HG3	8	0.4
(1,1087)	1:115:A:GLN:H	1:115:A:GLN:HG2	9	0.4
(1,1087)	1:115:A:GLN:H	1:115:A:GLN:HG3	9	0.4
(1,1087)	1:115:A:GLN:H	1:115:A:GLN:HG2	10	0.4
(1,1087)	1:115:A:GLN:H	1:115:A:GLN:HG3	10	0.4
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD11	5	0.4
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD12	5	0.4
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD13	5	0.4
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD21	5	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD22	5	0.4
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD23	5	0.4
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD11	6	0.4
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD12	6	0.4
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD13	6	0.4
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD21	6	0.4
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD22	6	0.4
(1,1066)	1:107:A:ALA:HA	1:111:A:LEU:HD23	6	0.4
(1,1056)	1:99:A:PHE:H	1:103:A:ASP:HB2	3	0.4
(1,1056)	1:99:A:PHE:H	1:103:A:ASP:HB3	3	0.4
(1,1013)	1:88:A:ASN:HD21	1:91:A:LEU:HD11	5	0.4
(1,1013)	1:88:A:ASN:HD21	1:91:A:LEU:HD12	5	0.4
(1,1013)	1:88:A:ASN:HD21	1:91:A:LEU:HD13	5	0.4
(1,1013)	1:88:A:ASN:HD22	1:91:A:LEU:HD11	5	0.4
(1,1013)	1:88:A:ASN:HD22	1:91:A:LEU:HD12	5	0.4
(1,1013)	1:88:A:ASN:HD22	1:91:A:LEU:HD13	5	0.4
(1,1010)	1:87:A:ARG:HD2	1:91:A:LEU:HD21	3	0.4
(1,1010)	1:87:A:ARG:HD2	1:91:A:LEU:HD22	3	0.4
(1,1010)	1:87:A:ARG:HD2	1:91:A:LEU:HD23	3	0.4
(1,1010)	1:87:A:ARG:HD3	1:91:A:LEU:HD21	3	0.4
(1,1010)	1:87:A:ARG:HD3	1:91:A:LEU:HD22	3	0.4
(1,1010)	1:87:A:ARG:HD3	1:91:A:LEU:HD23	3	0.4
(1,987)	1:76:A:GLU:HA	1:79:A:ARG:HD2	10	0.4
(1,987)	1:76:A:GLU:HA	1:79:A:ARG:HD3	10	0.4
(1,954)	1:54:A:GLN:HG2	1:55:A:LEU:H	2	0.4
(1,954)	1:54:A:GLN:HG3	1:55:A:LEU:H	2	0.4
(1,763)	1:67:A:GLN:HG2	1:69:A:ILE:H	4	0.4
(1,763)	1:67:A:GLN:HG3	1:69:A:ILE:H	4	0.4
(1,763)	1:67:A:GLN:HG2	1:69:A:ILE:H	7	0.4
(1,763)	1:67:A:GLN:HG3	1:69:A:ILE:H	7	0.4
(1,739)	1:30:A:ALA:HB1	1:34:A:THR:H	2	0.4
(1,739)	1:30:A:ALA:HB2	1:34:A:THR:H	2	0.4
(1,739)	1:30:A:ALA:HB3	1:34:A:THR:H	2	0.4
(1,479)	1:127:A:GLU:H	1:127:A:GLU:HB3	1	0.4
(1,479)	1:127:A:GLU:H	1:127:A:GLU:HB3	2	0.4
(1,479)	1:127:A:GLU:H	1:127:A:GLU:HB3	5	0.4
(1,479)	1:127:A:GLU:H	1:127:A:GLU:HB3	10	0.4
(1,100)	1:79:A:ARG:HA	1:79:A:ARG:HE	3	0.4
(1,100)	1:79:A:ARG:HA	1:79:A:ARG:HE	10	0.4
(1,1041)	1:95:A:LEU:HD11	1:107:A:ALA:H	2	0.39
(1,1041)	1:95:A:LEU:HD12	1:107:A:ALA:H	2	0.39
(1,1041)	1:95:A:LEU:HD13	1:107:A:ALA:H	2	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1041)	1:95:A:LEU:HD21	1:107:A:ALA:H	2	0.39
(1,1041)	1:95:A:LEU:HD22	1:107:A:ALA:H	2	0.39
(1,1041)	1:95:A:LEU:HD23	1:107:A:ALA:H	2	0.39
(1,991)	1:79:A:ARG:H	1:79:A:ARG:HD2	1	0.39
(1,991)	1:79:A:ARG:H	1:79:A:ARG:HD3	1	0.39
(1,835)	1:24:A:LYS:HG2	1:26:A:TRP:H	10	0.39
(1,835)	1:24:A:LYS:HG3	1:26:A:TRP:H	10	0.39
(1,763)	1:67:A:GLN:HG2	1:69:A:ILE:H	1	0.39
(1,763)	1:67:A:GLN:HG3	1:69:A:ILE:H	1	0.39
(1,763)	1:67:A:GLN:HG2	1:69:A:ILE:H	3	0.39
(1,763)	1:67:A:GLN:HG3	1:69:A:ILE:H	3	0.39
(1,763)	1:67:A:GLN:HG2	1:69:A:ILE:H	8	0.39
(1,763)	1:67:A:GLN:HG3	1:69:A:ILE:H	8	0.39
(1,479)	1:127:A:GLU:H	1:127:A:GLU:HB3	9	0.39
(1,270)	1:29:A:ASN:HA	1:32:A:LEU:HD21	1	0.39
(1,270)	1:29:A:ASN:HA	1:32:A:LEU:HD22	1	0.39
(1,270)	1:29:A:ASN:HA	1:32:A:LEU:HD23	1	0.39
(1,220)	1:95:A:LEU:HG	1:110:A:VAL:HG21	4	0.39
(1,220)	1:95:A:LEU:HG	1:110:A:VAL:HG22	4	0.39
(1,220)	1:95:A:LEU:HG	1:110:A:VAL:HG23	4	0.39
(1,199)	1:35:A:ARG:HA	1:35:A:ARG:HE	4	0.39
(1,199)	1:35:A:ARG:HA	1:35:A:ARG:HE	5	0.39
(1,199)	1:35:A:ARG:HA	1:35:A:ARG:HE	8	0.39
(1,112)	1:124:A:ILE:HG21	1:127:A:GLU:HB3	6	0.39
(1,112)	1:124:A:ILE:HG22	1:127:A:GLU:HB3	6	0.39
(1,112)	1:124:A:ILE:HG23	1:127:A:GLU:HB3	6	0.39
(1,100)	1:79:A:ARG:HA	1:79:A:ARG:HE	2	0.39
(1,100)	1:79:A:ARG:HA	1:79:A:ARG:HE	7	0.39
(1,59)	1:95:A:LEU:HD11	1:107:A:ALA:HB1	7	0.39
(1,59)	1:95:A:LEU:HD11	1:107:A:ALA:HB2	7	0.39
(1,59)	1:95:A:LEU:HD11	1:107:A:ALA:HB3	7	0.39
(1,59)	1:95:A:LEU:HD12	1:107:A:ALA:HB1	7	0.39
(1,59)	1:95:A:LEU:HD12	1:107:A:ALA:HB2	7	0.39
(1,59)	1:95:A:LEU:HD12	1:107:A:ALA:HB3	7	0.39
(1,59)	1:95:A:LEU:HD13	1:107:A:ALA:HB1	7	0.39
(1,59)	1:95:A:LEU:HD13	1:107:A:ALA:HB2	7	0.39
(1,59)	1:95:A:LEU:HD13	1:107:A:ALA:HB3	7	0.39
(1,1113)	1:130:A:LYS:HA	1:130:A:LYS:HD2	5	0.38
(1,1113)	1:130:A:LYS:HA	1:130:A:LYS:HD3	5	0.38
(1,991)	1:79:A:ARG:H	1:79:A:ARG:HD2	2	0.38
(1,991)	1:79:A:ARG:H	1:79:A:ARG:HD3	2	0.38
(1,954)	1:54:A:GLN:HG2	1:55:A:LEU:H	8	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,954)	1:54:A:GLN:HG3	1:55:A:LEU:H	8	0.38
(1,954)	1:54:A:GLN:HG2	1:55:A:LEU:H	10	0.38
(1,954)	1:54:A:GLN:HG3	1:55:A:LEU:H	10	0.38
(1,521)	1:54:A:GLN:H	1:54:A:GLN:HG2	9	0.38
(1,220)	1:95:A:LEU:HG	1:110:A:VAL:HG21	9	0.38
(1,220)	1:95:A:LEU:HG	1:110:A:VAL:HG22	9	0.38
(1,220)	1:95:A:LEU:HG	1:110:A:VAL:HG23	9	0.38
(1,199)	1:35:A:ARG:HA	1:35:A:ARG:HE	3	0.38
(1,199)	1:35:A:ARG:HA	1:35:A:ARG:HE	7	0.38
(1,1013)	1:88:A:ASN:HD21	1:91:A:LEU:HD11	1	0.37
(1,1013)	1:88:A:ASN:HD21	1:91:A:LEU:HD12	1	0.37
(1,1013)	1:88:A:ASN:HD21	1:91:A:LEU:HD13	1	0.37
(1,1013)	1:88:A:ASN:HD22	1:91:A:LEU:HD11	1	0.37
(1,1013)	1:88:A:ASN:HD22	1:91:A:LEU:HD12	1	0.37
(1,1013)	1:88:A:ASN:HD22	1:91:A:LEU:HD13	1	0.37
(1,1013)	1:88:A:ASN:HD21	1:91:A:LEU:HD11	10	0.37
(1,1013)	1:88:A:ASN:HD21	1:91:A:LEU:HD12	10	0.37
(1,1013)	1:88:A:ASN:HD21	1:91:A:LEU:HD13	10	0.37
(1,1013)	1:88:A:ASN:HD22	1:91:A:LEU:HD11	10	0.37
(1,1013)	1:88:A:ASN:HD22	1:91:A:LEU:HD12	10	0.37
(1,1013)	1:88:A:ASN:HD22	1:91:A:LEU:HD13	10	0.37
(1,954)	1:54:A:GLN:HG2	1:55:A:LEU:H	3	0.37
(1,954)	1:54:A:GLN:HG3	1:55:A:LEU:H	3	0.37
(1,954)	1:54:A:GLN:HG2	1:55:A:LEU:H	4	0.37
(1,954)	1:54:A:GLN:HG3	1:55:A:LEU:H	4	0.37
(1,220)	1:95:A:LEU:HG	1:110:A:VAL:HG21	7	0.37
(1,220)	1:95:A:LEU:HG	1:110:A:VAL:HG22	7	0.37
(1,220)	1:95:A:LEU:HG	1:110:A:VAL:HG23	7	0.37
(1,199)	1:35:A:ARG:HA	1:35:A:ARG:HE	9	0.37
(1,153)	1:84:A:LEU:HD11	1:120:A:GLN:HE22	6	0.37
(1,153)	1:84:A:LEU:HD12	1:120:A:GLN:HE22	6	0.37
(1,153)	1:84:A:LEU:HD13	1:120:A:GLN:HE22	6	0.37
(1,100)	1:79:A:ARG:HA	1:79:A:ARG:HE	1	0.37
(1,59)	1:95:A:LEU:HD11	1:107:A:ALA:HB1	1	0.37
(1,59)	1:95:A:LEU:HD11	1:107:A:ALA:HB2	1	0.37
(1,59)	1:95:A:LEU:HD11	1:107:A:ALA:HB3	1	0.37
(1,59)	1:95:A:LEU:HD12	1:107:A:ALA:HB1	1	0.37
(1,59)	1:95:A:LEU:HD12	1:107:A:ALA:HB2	1	0.37
(1,59)	1:95:A:LEU:HD12	1:107:A:ALA:HB3	1	0.37
(1,59)	1:95:A:LEU:HD13	1:107:A:ALA:HB1	1	0.37
(1,59)	1:95:A:LEU:HD13	1:107:A:ALA:HB2	1	0.37
(1,59)	1:95:A:LEU:HD13	1:107:A:ALA:HB3	1	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,991)	1:79:A:ARG:H	1:79:A:ARG:HD2	3	0.36
(1,991)	1:79:A:ARG:H	1:79:A:ARG:HD3	3	0.36
(1,954)	1:54:A:GLN:HG2	1:55:A:LEU:H	1	0.36
(1,954)	1:54:A:GLN:HG3	1:55:A:LEU:H	1	0.36
(1,954)	1:54:A:GLN:HG2	1:55:A:LEU:H	5	0.36
(1,954)	1:54:A:GLN:HG3	1:55:A:LEU:H	5	0.36
(1,954)	1:54:A:GLN:HG2	1:55:A:LEU:H	6	0.36
(1,954)	1:54:A:GLN:HG3	1:55:A:LEU:H	6	0.36
(1,704)	1:48:A:VAL:HB	1:50:A:SER:H	4	0.36
(1,528)	1:55:A:LEU:H	1:55:A:LEU:HG	10	0.36
(1,220)	1:95:A:LEU:HG	1:110:A:VAL:HG21	1	0.36
(1,220)	1:95:A:LEU:HG	1:110:A:VAL:HG22	1	0.36
(1,220)	1:95:A:LEU:HG	1:110:A:VAL:HG23	1	0.36
(1,100)	1:79:A:ARG:HA	1:79:A:ARG:HE	5	0.36
(1,49)	1:124:A:ILE:HG21	1:128:A:ALA:HA	4	0.36
(1,49)	1:124:A:ILE:HG22	1:128:A:ALA:HA	4	0.36
(1,49)	1:124:A:ILE:HG23	1:128:A:ALA:HA	4	0.36
(1,1056)	1:99:A:PHE:H	1:103:A:ASP:HB2	1	0.35
(1,1056)	1:99:A:PHE:H	1:103:A:ASP:HB3	1	0.35
(1,1056)	1:99:A:PHE:H	1:103:A:ASP:HB2	9	0.35
(1,1056)	1:99:A:PHE:H	1:103:A:ASP:HB3	9	0.35
(1,991)	1:79:A:ARG:H	1:79:A:ARG:HD2	7	0.35
(1,991)	1:79:A:ARG:H	1:79:A:ARG:HD3	7	0.35
(1,221)	1:39:A:ALA:HA	1:47:A:THR:HG21	9	0.35
(1,221)	1:39:A:ALA:HA	1:47:A:THR:HG22	9	0.35
(1,221)	1:39:A:ALA:HA	1:47:A:THR:HG23	9	0.35
(1,126)	1:97:A:THR:HG21	1:101:A:GLN:HG2	4	0.35
(1,126)	1:97:A:THR:HG21	1:101:A:GLN:HG3	4	0.35
(1,126)	1:97:A:THR:HG22	1:101:A:GLN:HG2	4	0.35
(1,126)	1:97:A:THR:HG22	1:101:A:GLN:HG3	4	0.35
(1,126)	1:97:A:THR:HG23	1:101:A:GLN:HG2	4	0.35
(1,126)	1:97:A:THR:HG23	1:101:A:GLN:HG3	4	0.35
(1,100)	1:79:A:ARG:HA	1:79:A:ARG:HE	6	0.35
(1,1)	1:95:A:LEU:HD21	1:107:A:ALA:HB1	3	0.35
(1,1)	1:95:A:LEU:HD21	1:107:A:ALA:HB2	3	0.35
(1,1)	1:95:A:LEU:HD21	1:107:A:ALA:HB3	3	0.35
(1,1)	1:95:A:LEU:HD22	1:107:A:ALA:HB1	3	0.35
(1,1)	1:95:A:LEU:HD22	1:107:A:ALA:HB2	3	0.35
(1,1)	1:95:A:LEU:HD22	1:107:A:ALA:HB3	3	0.35
(1,1)	1:95:A:LEU:HD23	1:107:A:ALA:HB1	3	0.35
(1,1)	1:95:A:LEU:HD23	1:107:A:ALA:HB2	3	0.35
(1,1)	1:95:A:LEU:HD23	1:107:A:ALA:HB3	3	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1087)	1:115:A:GLN:H	1:115:A:GLN:HG2	1	0.34
(1,1087)	1:115:A:GLN:H	1:115:A:GLN:HG3	1	0.34
(1,936)	1:51:A:LEU:HD11	1:54:A:GLN:HE21	7	0.34
(1,936)	1:51:A:LEU:HD11	1:54:A:GLN:HE22	7	0.34
(1,936)	1:51:A:LEU:HD12	1:54:A:GLN:HE21	7	0.34
(1,936)	1:51:A:LEU:HD12	1:54:A:GLN:HE22	7	0.34
(1,936)	1:51:A:LEU:HD13	1:54:A:GLN:HE21	7	0.34
(1,936)	1:51:A:LEU:HD13	1:54:A:GLN:HE22	7	0.34
(1,936)	1:51:A:LEU:HD21	1:54:A:GLN:HE21	7	0.34
(1,936)	1:51:A:LEU:HD21	1:54:A:GLN:HE22	7	0.34
(1,936)	1:51:A:LEU:HD22	1:54:A:GLN:HE21	7	0.34
(1,936)	1:51:A:LEU:HD22	1:54:A:GLN:HE22	7	0.34
(1,936)	1:51:A:LEU:HD23	1:54:A:GLN:HE21	7	0.34
(1,936)	1:51:A:LEU:HD23	1:54:A:GLN:HE22	7	0.34
(1,604)	1:39:A:ALA:H	1:47:A:THR:HG21	9	0.34
(1,604)	1:39:A:ALA:H	1:47:A:THR:HG22	9	0.34
(1,604)	1:39:A:ALA:H	1:47:A:THR:HG23	9	0.34
(1,537)	1:129:A:GLN:H	1:129:A:GLN:HG2	1	0.34
(1,537)	1:129:A:GLN:H	1:129:A:GLN:HG3	1	0.34
(1,221)	1:39:A:ALA:HA	1:47:A:THR:HG21	10	0.34
(1,221)	1:39:A:ALA:HA	1:47:A:THR:HG22	10	0.34
(1,221)	1:39:A:ALA:HA	1:47:A:THR:HG23	10	0.34
(1,199)	1:35:A:ARG:HA	1:35:A:ARG:HE	2	0.34
(1,199)	1:35:A:ARG:HA	1:35:A:ARG:HE	6	0.34
(1,153)	1:84:A:LEU:HD11	1:120:A:GLN:HE22	4	0.34
(1,153)	1:84:A:LEU:HD12	1:120:A:GLN:HE22	4	0.34
(1,153)	1:84:A:LEU:HD13	1:120:A:GLN:HE22	4	0.34
(1,82)	1:124:A:ILE:HA	1:127:A:GLU:HB3	8	0.34
(1,54)	1:95:A:LEU:HD11	1:107:A:ALA:HA	10	0.34
(1,54)	1:95:A:LEU:HD12	1:107:A:ALA:HA	10	0.34
(1,54)	1:95:A:LEU:HD13	1:107:A:ALA:HA	10	0.34
(1,1007)	1:86:A:GLN:H	1:86:A:GLN:HG2	8	0.33
(1,1007)	1:86:A:GLN:H	1:86:A:GLN:HG3	8	0.33
(1,825)	1:23:A:VAL:HG11	1:24:A:LYS:HG2	6	0.33
(1,825)	1:23:A:VAL:HG11	1:24:A:LYS:HG3	6	0.33
(1,825)	1:23:A:VAL:HG12	1:24:A:LYS:HG2	6	0.33
(1,825)	1:23:A:VAL:HG12	1:24:A:LYS:HG3	6	0.33
(1,825)	1:23:A:VAL:HG13	1:24:A:LYS:HG2	6	0.33
(1,825)	1:23:A:VAL:HG13	1:24:A:LYS:HG3	6	0.33
(1,825)	1:23:A:VAL:HG21	1:24:A:LYS:HG2	6	0.33
(1,825)	1:23:A:VAL:HG21	1:24:A:LYS:HG3	6	0.33
(1,825)	1:23:A:VAL:HG22	1:24:A:LYS:HG2	6	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,825)	1:23:A:VAL:HG22	1:24:A:LYS:HG3	6	0.33
(1,825)	1:23:A:VAL:HG23	1:24:A:LYS:HG2	6	0.33
(1,825)	1:23:A:VAL:HG23	1:24:A:LYS:HG3	6	0.33
(1,546)	1:33:A:TRP:HE1	1:37:A:VAL:HG21	2	0.33
(1,546)	1:33:A:TRP:HE1	1:37:A:VAL:HG22	2	0.33
(1,546)	1:33:A:TRP:HE1	1:37:A:VAL:HG23	2	0.33
(1,537)	1:129:A:GLN:H	1:129:A:GLN:HG2	5	0.33
(1,537)	1:129:A:GLN:H	1:129:A:GLN:HG3	5	0.33
(1,537)	1:129:A:GLN:H	1:129:A:GLN:HG2	7	0.33
(1,537)	1:129:A:GLN:H	1:129:A:GLN:HG3	7	0.33
(1,537)	1:129:A:GLN:H	1:129:A:GLN:HG2	9	0.33
(1,537)	1:129:A:GLN:H	1:129:A:GLN:HG3	9	0.33
(1,281)	1:120:A:GLN:HG2	1:121:A:ILE:HD11	5	0.33
(1,281)	1:120:A:GLN:HG2	1:121:A:ILE:HD12	5	0.33
(1,281)	1:120:A:GLN:HG2	1:121:A:ILE:HD13	5	0.33
(1,281)	1:120:A:GLN:HG3	1:121:A:ILE:HD11	5	0.33
(1,281)	1:120:A:GLN:HG3	1:121:A:ILE:HD12	5	0.33
(1,281)	1:120:A:GLN:HG3	1:121:A:ILE:HD13	5	0.33
(1,270)	1:29:A:ASN:HA	1:32:A:LEU:HD21	4	0.33
(1,270)	1:29:A:ASN:HA	1:32:A:LEU:HD22	4	0.33
(1,270)	1:29:A:ASN:HA	1:32:A:LEU:HD23	4	0.33
(1,8)	1:95:A:LEU:HD21	1:107:A:ALA:HA	3	0.33
(1,8)	1:95:A:LEU:HD22	1:107:A:ALA:HA	3	0.33
(1,8)	1:95:A:LEU:HD23	1:107:A:ALA:HA	3	0.33
(1,1035)	1:94:A:GLN:HE21	1:110:A:VAL:HG11	4	0.32
(1,1035)	1:94:A:GLN:HE21	1:110:A:VAL:HG12	4	0.32
(1,1035)	1:94:A:GLN:HE21	1:110:A:VAL:HG13	4	0.32
(1,1035)	1:94:A:GLN:HE22	1:110:A:VAL:HG11	4	0.32
(1,1035)	1:94:A:GLN:HE22	1:110:A:VAL:HG12	4	0.32
(1,1035)	1:94:A:GLN:HE22	1:110:A:VAL:HG13	4	0.32
(1,991)	1:79:A:ARG:H	1:79:A:ARG:HD2	10	0.32
(1,991)	1:79:A:ARG:H	1:79:A:ARG:HD3	10	0.32
(1,987)	1:76:A:GLU:HA	1:79:A:ARG:HD2	6	0.32
(1,987)	1:76:A:GLU:HA	1:79:A:ARG:HD3	6	0.32
(1,537)	1:129:A:GLN:H	1:129:A:GLN:HG2	6	0.32
(1,537)	1:129:A:GLN:H	1:129:A:GLN:HG3	6	0.32
(1,537)	1:129:A:GLN:H	1:129:A:GLN:HG2	8	0.32
(1,537)	1:129:A:GLN:H	1:129:A:GLN:HG3	8	0.32
(1,324)	1:101:A:GLN:H	1:101:A:GLN:HG2	4	0.32
(1,324)	1:101:A:GLN:H	1:101:A:GLN:HG3	4	0.32
(1,270)	1:29:A:ASN:HA	1:32:A:LEU:HD21	10	0.32
(1,270)	1:29:A:ASN:HA	1:32:A:LEU:HD22	10	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,270)	1:29:A:ASN:HA	1:32:A:LEU:HD23	10	0.32
(1,195)	1:111:A:LEU:H	1:111:A:LEU:HG	3	0.32
(1,1056)	1:99:A:PHE:H	1:103:A:ASP:HB2	5	0.31
(1,1056)	1:99:A:PHE:H	1:103:A:ASP:HB3	5	0.31
(1,1013)	1:88:A:ASN:HD21	1:91:A:LEU:HD11	6	0.31
(1,1013)	1:88:A:ASN:HD21	1:91:A:LEU:HD12	6	0.31
(1,1013)	1:88:A:ASN:HD21	1:91:A:LEU:HD13	6	0.31
(1,1013)	1:88:A:ASN:HD22	1:91:A:LEU:HD11	6	0.31
(1,1013)	1:88:A:ASN:HD22	1:91:A:LEU:HD12	6	0.31
(1,1013)	1:88:A:ASN:HD22	1:91:A:LEU:HD13	6	0.31
(1,796)	1:12:A:GLN:HB2	1:12:A:GLN:HE21	8	0.31
(1,796)	1:12:A:GLN:HB2	1:12:A:GLN:HE22	8	0.31
(1,796)	1:12:A:GLN:HB3	1:12:A:GLN:HE21	8	0.31
(1,796)	1:12:A:GLN:HB3	1:12:A:GLN:HE22	8	0.31
(1,759)	1:129:A:GLN:HA	1:129:A:GLN:HE21	3	0.31
(1,759)	1:129:A:GLN:HA	1:129:A:GLN:HE22	3	0.31
(1,171)	1:37:A:VAL:HA	1:39:A:ALA:HB1	2	0.31
(1,171)	1:37:A:VAL:HA	1:39:A:ALA:HB2	2	0.31
(1,171)	1:37:A:VAL:HA	1:39:A:ALA:HB3	2	0.31
(1,115)	1:121:A:ILE:HA	1:124:A:ILE:HD11	3	0.31
(1,115)	1:121:A:ILE:HA	1:124:A:ILE:HD12	3	0.31
(1,115)	1:121:A:ILE:HA	1:124:A:ILE:HD13	3	0.31
(1,101)	1:39:A:ALA:HB1	1:42:A:SER:HB2	3	0.31
(1,101)	1:39:A:ALA:HB1	1:42:A:SER:HB3	3	0.31
(1,101)	1:39:A:ALA:HB2	1:42:A:SER:HB2	3	0.31
(1,101)	1:39:A:ALA:HB2	1:42:A:SER:HB3	3	0.31
(1,101)	1:39:A:ALA:HB3	1:42:A:SER:HB2	3	0.31
(1,101)	1:39:A:ALA:HB3	1:42:A:SER:HB3	3	0.31
(1,100)	1:79:A:ARG:HA	1:79:A:ARG:HE	4	0.31
(1,1013)	1:88:A:ASN:HD21	1:91:A:LEU:HD11	7	0.3
(1,1013)	1:88:A:ASN:HD21	1:91:A:LEU:HD12	7	0.3
(1,1013)	1:88:A:ASN:HD21	1:91:A:LEU:HD13	7	0.3
(1,1013)	1:88:A:ASN:HD22	1:91:A:LEU:HD11	7	0.3
(1,1013)	1:88:A:ASN:HD22	1:91:A:LEU:HD12	7	0.3
(1,1013)	1:88:A:ASN:HD22	1:91:A:LEU:HD13	7	0.3
(1,954)	1:54:A:GLN:HG2	1:55:A:LEU:H	7	0.3
(1,954)	1:54:A:GLN:HG3	1:55:A:LEU:H	7	0.3
(1,632)	1:103:A:ASP:H	1:104:A:GLU:H	6	0.3
(1,281)	1:120:A:GLN:HG2	1:121:A:ILE:HD11	4	0.3
(1,281)	1:120:A:GLN:HG2	1:121:A:ILE:HD12	4	0.3
(1,281)	1:120:A:GLN:HG2	1:121:A:ILE:HD13	4	0.3
(1,281)	1:120:A:GLN:HG3	1:121:A:ILE:HD11	4	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,281)	1:120:A:GLN:HG3	1:121:A:ILE:HD12	4	0.3
(1,281)	1:120:A:GLN:HG3	1:121:A:ILE:HD13	4	0.3
(1,273)	1:94:A:GLN:HG2	1:110:A:VAL:HG21	4	0.3
(1,273)	1:94:A:GLN:HG2	1:110:A:VAL:HG22	4	0.3
(1,273)	1:94:A:GLN:HG2	1:110:A:VAL:HG23	4	0.3
(1,273)	1:94:A:GLN:HG3	1:110:A:VAL:HG21	4	0.3
(1,273)	1:94:A:GLN:HG3	1:110:A:VAL:HG22	4	0.3
(1,273)	1:94:A:GLN:HG3	1:110:A:VAL:HG23	4	0.3
(1,115)	1:121:A:ILE:HA	1:124:A:ILE:HD11	1	0.3
(1,115)	1:121:A:ILE:HA	1:124:A:ILE:HD12	1	0.3
(1,115)	1:121:A:ILE:HA	1:124:A:ILE:HD13	1	0.3
(1,82)	1:124:A:ILE:HA	1:127:A:GLU:HB3	10	0.3
(1,49)	1:124:A:ILE:HG21	1:128:A:ALA:HA	3	0.3
(1,49)	1:124:A:ILE:HG22	1:128:A:ALA:HA	3	0.3
(1,49)	1:124:A:ILE:HG23	1:128:A:ALA:HA	3	0.3
(1,49)	1:124:A:ILE:HG21	1:128:A:ALA:HA	10	0.3
(1,49)	1:124:A:ILE:HG22	1:128:A:ALA:HA	10	0.3
(1,49)	1:124:A:ILE:HG23	1:128:A:ALA:HA	10	0.3
(1,1041)	1:95:A:LEU:HD11	1:107:A:ALA:H	6	0.29
(1,1041)	1:95:A:LEU:HD12	1:107:A:ALA:H	6	0.29
(1,1041)	1:95:A:LEU:HD13	1:107:A:ALA:H	6	0.29
(1,1041)	1:95:A:LEU:HD21	1:107:A:ALA:H	6	0.29
(1,1041)	1:95:A:LEU:HD22	1:107:A:ALA:H	6	0.29
(1,1041)	1:95:A:LEU:HD23	1:107:A:ALA:H	6	0.29
(1,881)	1:36:A:LEU:HD11	1:37:A:VAL:HG11	3	0.29
(1,881)	1:36:A:LEU:HD11	1:37:A:VAL:HG12	3	0.29
(1,881)	1:36:A:LEU:HD11	1:37:A:VAL:HG13	3	0.29
(1,881)	1:36:A:LEU:HD11	1:37:A:VAL:HG21	3	0.29
(1,881)	1:36:A:LEU:HD11	1:37:A:VAL:HG22	3	0.29
(1,881)	1:36:A:LEU:HD11	1:37:A:VAL:HG23	3	0.29
(1,881)	1:36:A:LEU:HD12	1:37:A:VAL:HG11	3	0.29
(1,881)	1:36:A:LEU:HD12	1:37:A:VAL:HG12	3	0.29
(1,881)	1:36:A:LEU:HD12	1:37:A:VAL:HG13	3	0.29
(1,881)	1:36:A:LEU:HD12	1:37:A:VAL:HG21	3	0.29
(1,881)	1:36:A:LEU:HD12	1:37:A:VAL:HG22	3	0.29
(1,881)	1:36:A:LEU:HD12	1:37:A:VAL:HG23	3	0.29
(1,881)	1:36:A:LEU:HD13	1:37:A:VAL:HG11	3	0.29
(1,881)	1:36:A:LEU:HD13	1:37:A:VAL:HG12	3	0.29
(1,881)	1:36:A:LEU:HD13	1:37:A:VAL:HG13	3	0.29
(1,881)	1:36:A:LEU:HD13	1:37:A:VAL:HG21	3	0.29
(1,881)	1:36:A:LEU:HD13	1:37:A:VAL:HG22	3	0.29
(1,881)	1:36:A:LEU:HD13	1:37:A:VAL:HG23	3	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,881)	1:36:A:LEU:HD21	1:37:A:VAL:HG11	3	0.29
(1,881)	1:36:A:LEU:HD21	1:37:A:VAL:HG12	3	0.29
(1,881)	1:36:A:LEU:HD21	1:37:A:VAL:HG13	3	0.29
(1,881)	1:36:A:LEU:HD21	1:37:A:VAL:HG21	3	0.29
(1,881)	1:36:A:LEU:HD21	1:37:A:VAL:HG22	3	0.29
(1,881)	1:36:A:LEU:HD21	1:37:A:VAL:HG23	3	0.29
(1,881)	1:36:A:LEU:HD22	1:37:A:VAL:HG11	3	0.29
(1,881)	1:36:A:LEU:HD22	1:37:A:VAL:HG12	3	0.29
(1,881)	1:36:A:LEU:HD22	1:37:A:VAL:HG13	3	0.29
(1,881)	1:36:A:LEU:HD22	1:37:A:VAL:HG21	3	0.29
(1,881)	1:36:A:LEU:HD22	1:37:A:VAL:HG22	3	0.29
(1,881)	1:36:A:LEU:HD22	1:37:A:VAL:HG23	3	0.29
(1,881)	1:36:A:LEU:HD23	1:37:A:VAL:HG11	3	0.29
(1,881)	1:36:A:LEU:HD23	1:37:A:VAL:HG12	3	0.29
(1,881)	1:36:A:LEU:HD23	1:37:A:VAL:HG13	3	0.29
(1,881)	1:36:A:LEU:HD23	1:37:A:VAL:HG21	3	0.29
(1,881)	1:36:A:LEU:HD23	1:37:A:VAL:HG22	3	0.29
(1,881)	1:36:A:LEU:HD23	1:37:A:VAL:HG23	3	0.29
(1,817)	1:21:A:GLU:H	1:21:A:GLU:HG2	6	0.29
(1,817)	1:21:A:GLU:H	1:21:A:GLU:HG3	6	0.29
(1,796)	1:12:A:GLN:HB2	1:12:A:GLN:HE21	6	0.29
(1,796)	1:12:A:GLN:HB2	1:12:A:GLN:HE22	6	0.29
(1,796)	1:12:A:GLN:HB3	1:12:A:GLN:HE21	6	0.29
(1,796)	1:12:A:GLN:HB3	1:12:A:GLN:HE22	6	0.29
(1,281)	1:120:A:GLN:HG2	1:121:A:ILE:HD11	6	0.29
(1,281)	1:120:A:GLN:HG2	1:121:A:ILE:HD12	6	0.29
(1,281)	1:120:A:GLN:HG2	1:121:A:ILE:HD13	6	0.29
(1,281)	1:120:A:GLN:HG3	1:121:A:ILE:HD11	6	0.29
(1,281)	1:120:A:GLN:HG3	1:121:A:ILE:HD12	6	0.29
(1,281)	1:120:A:GLN:HG3	1:121:A:ILE:HD13	6	0.29
(1,115)	1:121:A:ILE:HA	1:124:A:ILE:HD11	10	0.29
(1,115)	1:121:A:ILE:HA	1:124:A:ILE:HD12	10	0.29
(1,115)	1:121:A:ILE:HA	1:124:A:ILE:HD13	10	0.29
(1,54)	1:95:A:LEU:HD11	1:107:A:ALA:HA	9	0.29
(1,54)	1:95:A:LEU:HD12	1:107:A:ALA:HA	9	0.29
(1,54)	1:95:A:LEU:HD13	1:107:A:ALA:HA	9	0.29
(1,1041)	1:95:A:LEU:HD11	1:107:A:ALA:H	8	0.28
(1,1041)	1:95:A:LEU:HD12	1:107:A:ALA:H	8	0.28
(1,1041)	1:95:A:LEU:HD13	1:107:A:ALA:H	8	0.28
(1,1041)	1:95:A:LEU:HD21	1:107:A:ALA:H	8	0.28
(1,1041)	1:95:A:LEU:HD22	1:107:A:ALA:H	8	0.28
(1,1041)	1:95:A:LEU:HD23	1:107:A:ALA:H	8	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1013)	1:88:A:ASN:HD21	1:91:A:LEU:HD11	4	0.28
(1,1013)	1:88:A:ASN:HD21	1:91:A:LEU:HD12	4	0.28
(1,1013)	1:88:A:ASN:HD21	1:91:A:LEU:HD13	4	0.28
(1,1013)	1:88:A:ASN:HD22	1:91:A:LEU:HD11	4	0.28
(1,1013)	1:88:A:ASN:HD22	1:91:A:LEU:HD12	4	0.28
(1,1013)	1:88:A:ASN:HD22	1:91:A:LEU:HD13	4	0.28
(1,632)	1:103:A:ASP:H	1:104:A:GLU:H	4	0.28
(1,632)	1:103:A:ASP:H	1:104:A:GLU:H	8	0.28
(1,278)	1:53:A:LYS:HA	1:53:A:LYS:HE2	3	0.28
(1,278)	1:53:A:LYS:HA	1:53:A:LYS:HE3	3	0.28
(1,278)	1:53:A:LYS:HA	1:53:A:LYS:HE2	4	0.28
(1,278)	1:53:A:LYS:HA	1:53:A:LYS:HE3	4	0.28
(1,278)	1:53:A:LYS:HA	1:53:A:LYS:HE2	10	0.28
(1,278)	1:53:A:LYS:HA	1:53:A:LYS:HE3	10	0.28
(1,270)	1:29:A:ASN:HA	1:32:A:LEU:HD21	7	0.28
(1,270)	1:29:A:ASN:HA	1:32:A:LEU:HD22	7	0.28
(1,270)	1:29:A:ASN:HA	1:32:A:LEU:HD23	7	0.28
(1,221)	1:39:A:ALA:HA	1:47:A:THR:HG21	1	0.28
(1,221)	1:39:A:ALA:HA	1:47:A:THR:HG22	1	0.28
(1,221)	1:39:A:ALA:HA	1:47:A:THR:HG23	1	0.28
(1,221)	1:39:A:ALA:HA	1:47:A:THR:HG21	6	0.28
(1,221)	1:39:A:ALA:HA	1:47:A:THR:HG22	6	0.28
(1,221)	1:39:A:ALA:HA	1:47:A:THR:HG23	6	0.28
(1,49)	1:124:A:ILE:HG21	1:128:A:ALA:HA	8	0.28
(1,49)	1:124:A:ILE:HG22	1:128:A:ALA:HA	8	0.28
(1,49)	1:124:A:ILE:HG23	1:128:A:ALA:HA	8	0.28
(1,880)	1:36:A:LEU:HD11	1:37:A:VAL:HA	4	0.27
(1,880)	1:36:A:LEU:HD12	1:37:A:VAL:HA	4	0.27
(1,880)	1:36:A:LEU:HD13	1:37:A:VAL:HA	4	0.27
(1,880)	1:36:A:LEU:HD21	1:37:A:VAL:HA	4	0.27
(1,880)	1:36:A:LEU:HD22	1:37:A:VAL:HA	4	0.27
(1,880)	1:36:A:LEU:HD23	1:37:A:VAL:HA	4	0.27
(1,798)	1:13:A:SER:HB2	1:16:A:LYS:H	1	0.27
(1,798)	1:13:A:SER:HB3	1:16:A:LYS:H	1	0.27
(1,798)	1:13:A:SER:HB2	1:16:A:LYS:H	9	0.27
(1,798)	1:13:A:SER:HB3	1:16:A:LYS:H	9	0.27
(1,537)	1:129:A:GLN:H	1:129:A:GLN:HG2	2	0.27
(1,537)	1:129:A:GLN:H	1:129:A:GLN:HG3	2	0.27
(1,537)	1:129:A:GLN:H	1:129:A:GLN:HG2	3	0.27
(1,537)	1:129:A:GLN:H	1:129:A:GLN:HG3	3	0.27
(1,82)	1:124:A:ILE:HA	1:127:A:GLU:HB3	4	0.27
(1,1010)	1:87:A:ARG:HD2	1:91:A:LEU:HD21	2	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1010)	1:87:A:ARG:HD2	1:91:A:LEU:HD22	2	0.26
(1,1010)	1:87:A:ARG:HD2	1:91:A:LEU:HD23	2	0.26
(1,1010)	1:87:A:ARG:HD3	1:91:A:LEU:HD21	2	0.26
(1,1010)	1:87:A:ARG:HD3	1:91:A:LEU:HD22	2	0.26
(1,1010)	1:87:A:ARG:HD3	1:91:A:LEU:HD23	2	0.26
(1,1010)	1:87:A:ARG:HD2	1:91:A:LEU:HD21	6	0.26
(1,1010)	1:87:A:ARG:HD2	1:91:A:LEU:HD22	6	0.26
(1,1010)	1:87:A:ARG:HD2	1:91:A:LEU:HD23	6	0.26
(1,1010)	1:87:A:ARG:HD3	1:91:A:LEU:HD21	6	0.26
(1,1010)	1:87:A:ARG:HD3	1:91:A:LEU:HD22	6	0.26
(1,1010)	1:87:A:ARG:HD3	1:91:A:LEU:HD23	6	0.26
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG11	4	0.26
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG12	4	0.26
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG13	4	0.26
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG21	4	0.26
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG22	4	0.26
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG23	4	0.26
(1,632)	1:103:A:ASP:H	1:104:A:GLU:H	2	0.26
(1,397)	1:48:A:VAL:HB	1:49:A:ASP:H	4	0.26
(1,185)	1:92:A:PHE:HA	1:92:A:PHE:HD1	7	0.26
(1,153)	1:84:A:LEU:HD11	1:120:A:GLN:HE22	5	0.26
(1,153)	1:84:A:LEU:HD12	1:120:A:GLN:HE22	5	0.26
(1,153)	1:84:A:LEU:HD13	1:120:A:GLN:HE22	5	0.26
(1,1013)	1:88:A:ASN:HD21	1:91:A:LEU:HD11	2	0.25
(1,1013)	1:88:A:ASN:HD21	1:91:A:LEU:HD12	2	0.25
(1,1013)	1:88:A:ASN:HD21	1:91:A:LEU:HD13	2	0.25
(1,1013)	1:88:A:ASN:HD22	1:91:A:LEU:HD11	2	0.25
(1,1013)	1:88:A:ASN:HD22	1:91:A:LEU:HD12	2	0.25
(1,1013)	1:88:A:ASN:HD22	1:91:A:LEU:HD13	2	0.25
(1,952)	1:54:A:GLN:HB2	1:54:A:GLN:HE21	1	0.25
(1,952)	1:54:A:GLN:HB2	1:54:A:GLN:HE22	1	0.25
(1,952)	1:54:A:GLN:HB3	1:54:A:GLN:HE21	1	0.25
(1,952)	1:54:A:GLN:HB3	1:54:A:GLN:HE22	1	0.25
(1,952)	1:54:A:GLN:HB2	1:54:A:GLN:HE21	8	0.25
(1,952)	1:54:A:GLN:HB2	1:54:A:GLN:HE22	8	0.25
(1,952)	1:54:A:GLN:HB3	1:54:A:GLN:HE21	8	0.25
(1,952)	1:54:A:GLN:HB3	1:54:A:GLN:HE22	8	0.25
(1,881)	1:36:A:LEU:HD11	1:37:A:VAL:HG11	6	0.25
(1,881)	1:36:A:LEU:HD11	1:37:A:VAL:HG12	6	0.25
(1,881)	1:36:A:LEU:HD11	1:37:A:VAL:HG13	6	0.25
(1,881)	1:36:A:LEU:HD11	1:37:A:VAL:HG21	6	0.25
(1,881)	1:36:A:LEU:HD11	1:37:A:VAL:HG22	6	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,881)	1:36:A:LEU:HD11	1:37:A:VAL:HG23	6	0.25
(1,881)	1:36:A:LEU:HD12	1:37:A:VAL:HG11	6	0.25
(1,881)	1:36:A:LEU:HD12	1:37:A:VAL:HG12	6	0.25
(1,881)	1:36:A:LEU:HD12	1:37:A:VAL:HG13	6	0.25
(1,881)	1:36:A:LEU:HD12	1:37:A:VAL:HG21	6	0.25
(1,881)	1:36:A:LEU:HD12	1:37:A:VAL:HG22	6	0.25
(1,881)	1:36:A:LEU:HD12	1:37:A:VAL:HG23	6	0.25
(1,881)	1:36:A:LEU:HD13	1:37:A:VAL:HG11	6	0.25
(1,881)	1:36:A:LEU:HD13	1:37:A:VAL:HG12	6	0.25
(1,881)	1:36:A:LEU:HD13	1:37:A:VAL:HG13	6	0.25
(1,881)	1:36:A:LEU:HD13	1:37:A:VAL:HG21	6	0.25
(1,881)	1:36:A:LEU:HD13	1:37:A:VAL:HG22	6	0.25
(1,881)	1:36:A:LEU:HD13	1:37:A:VAL:HG23	6	0.25
(1,881)	1:36:A:LEU:HD21	1:37:A:VAL:HG11	6	0.25
(1,881)	1:36:A:LEU:HD21	1:37:A:VAL:HG12	6	0.25
(1,881)	1:36:A:LEU:HD21	1:37:A:VAL:HG13	6	0.25
(1,881)	1:36:A:LEU:HD21	1:37:A:VAL:HG21	6	0.25
(1,881)	1:36:A:LEU:HD21	1:37:A:VAL:HG22	6	0.25
(1,881)	1:36:A:LEU:HD21	1:37:A:VAL:HG23	6	0.25
(1,881)	1:36:A:LEU:HD22	1:37:A:VAL:HG11	6	0.25
(1,881)	1:36:A:LEU:HD22	1:37:A:VAL:HG12	6	0.25
(1,881)	1:36:A:LEU:HD22	1:37:A:VAL:HG13	6	0.25
(1,881)	1:36:A:LEU:HD22	1:37:A:VAL:HG21	6	0.25
(1,881)	1:36:A:LEU:HD22	1:37:A:VAL:HG22	6	0.25
(1,881)	1:36:A:LEU:HD22	1:37:A:VAL:HG23	6	0.25
(1,881)	1:36:A:LEU:HD23	1:37:A:VAL:HG11	6	0.25
(1,881)	1:36:A:LEU:HD23	1:37:A:VAL:HG12	6	0.25
(1,881)	1:36:A:LEU:HD23	1:37:A:VAL:HG13	6	0.25
(1,881)	1:36:A:LEU:HD23	1:37:A:VAL:HG21	6	0.25
(1,881)	1:36:A:LEU:HD23	1:37:A:VAL:HG22	6	0.25
(1,881)	1:36:A:LEU:HD23	1:37:A:VAL:HG23	6	0.25
(1,787)	1:70:A:ILE:HD11	1:82:A:GLU:H	2	0.25
(1,787)	1:70:A:ILE:HD12	1:82:A:GLU:H	2	0.25
(1,787)	1:70:A:ILE:HD13	1:82:A:GLU:H	2	0.25
(1,748)	1:7:A:GLU:HG2	1:8:A:ASN:H	8	0.25
(1,748)	1:7:A:GLU:HG3	1:8:A:ASN:H	8	0.25
(1,637)	1:54:A:GLN:H	1:54:A:GLN:HG3	9	0.25
(1,604)	1:39:A:ALA:H	1:47:A:THR:HG21	5	0.25
(1,604)	1:39:A:ALA:H	1:47:A:THR:HG22	5	0.25
(1,604)	1:39:A:ALA:H	1:47:A:THR:HG23	5	0.25
(1,221)	1:39:A:ALA:HA	1:47:A:THR:HG21	2	0.25
(1,221)	1:39:A:ALA:HA	1:47:A:THR:HG22	2	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,221)	1:39:A:ALA:HA	1:47:A:THR:HG23	2	0.25
(1,185)	1:92:A:PHE:HA	1:92:A:PHE:HD1	1	0.25
(1,54)	1:95:A:LEU:HD11	1:107:A:ALA:HA	5	0.25
(1,54)	1:95:A:LEU:HD12	1:107:A:ALA:HA	5	0.25
(1,54)	1:95:A:LEU:HD13	1:107:A:ALA:HA	5	0.25
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD11	8	0.24
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD12	8	0.24
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD13	8	0.24
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD21	8	0.24
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD22	8	0.24
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD23	8	0.24
(1,967)	1:64:A:GLN:HA	1:64:A:GLN:HE21	2	0.24
(1,967)	1:64:A:GLN:HA	1:64:A:GLN:HE22	2	0.24
(1,952)	1:54:A:GLN:HB2	1:54:A:GLN:HE21	5	0.24
(1,952)	1:54:A:GLN:HB2	1:54:A:GLN:HE22	5	0.24
(1,952)	1:54:A:GLN:HB3	1:54:A:GLN:HE21	5	0.24
(1,952)	1:54:A:GLN:HB3	1:54:A:GLN:HE22	5	0.24
(1,952)	1:54:A:GLN:HB2	1:54:A:GLN:HE21	10	0.24
(1,952)	1:54:A:GLN:HB2	1:54:A:GLN:HE22	10	0.24
(1,952)	1:54:A:GLN:HB3	1:54:A:GLN:HE21	10	0.24
(1,952)	1:54:A:GLN:HB3	1:54:A:GLN:HE22	10	0.24
(1,918)	1:47:A:THR:HG21	1:48:A:VAL:HG11	9	0.24
(1,918)	1:47:A:THR:HG21	1:48:A:VAL:HG12	9	0.24
(1,918)	1:47:A:THR:HG21	1:48:A:VAL:HG13	9	0.24
(1,918)	1:47:A:THR:HG21	1:48:A:VAL:HG21	9	0.24
(1,918)	1:47:A:THR:HG21	1:48:A:VAL:HG22	9	0.24
(1,918)	1:47:A:THR:HG21	1:48:A:VAL:HG23	9	0.24
(1,918)	1:47:A:THR:HG22	1:48:A:VAL:HG11	9	0.24
(1,918)	1:47:A:THR:HG22	1:48:A:VAL:HG12	9	0.24
(1,918)	1:47:A:THR:HG22	1:48:A:VAL:HG13	9	0.24
(1,918)	1:47:A:THR:HG22	1:48:A:VAL:HG21	9	0.24
(1,918)	1:47:A:THR:HG22	1:48:A:VAL:HG22	9	0.24
(1,918)	1:47:A:THR:HG22	1:48:A:VAL:HG23	9	0.24
(1,918)	1:47:A:THR:HG23	1:48:A:VAL:HG11	9	0.24
(1,918)	1:47:A:THR:HG23	1:48:A:VAL:HG12	9	0.24
(1,918)	1:47:A:THR:HG23	1:48:A:VAL:HG13	9	0.24
(1,918)	1:47:A:THR:HG23	1:48:A:VAL:HG21	9	0.24
(1,918)	1:47:A:THR:HG23	1:48:A:VAL:HG22	9	0.24
(1,918)	1:47:A:THR:HG23	1:48:A:VAL:HG23	9	0.24
(1,545)	1:123:A:GLN:H	1:124:A:ILE:HD11	2	0.24
(1,545)	1:123:A:GLN:H	1:124:A:ILE:HD12	2	0.24
(1,545)	1:123:A:GLN:H	1:124:A:ILE:HD13	2	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,527)	1:7:A:GLU:H	1:7:A:GLU:HG2	1	0.24
(1,527)	1:7:A:GLU:H	1:7:A:GLU:HG3	1	0.24
(1,185)	1:92:A:PHE:HA	1:92:A:PHE:HD1	4	0.24
(1,185)	1:92:A:PHE:HA	1:92:A:PHE:HD1	6	0.24
(1,115)	1:121:A:ILE:HA	1:124:A:ILE:HD11	8	0.24
(1,115)	1:121:A:ILE:HA	1:124:A:ILE:HD12	8	0.24
(1,115)	1:121:A:ILE:HA	1:124:A:ILE:HD13	8	0.24
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD11	1	0.23
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD12	1	0.23
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD13	1	0.23
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD21	1	0.23
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD22	1	0.23
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD23	1	0.23
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD11	7	0.23
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD12	7	0.23
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD13	7	0.23
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD21	7	0.23
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD22	7	0.23
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD23	7	0.23
(1,1035)	1:94:A:GLN:HE21	1:110:A:VAL:HG11	8	0.23
(1,1035)	1:94:A:GLN:HE21	1:110:A:VAL:HG12	8	0.23
(1,1035)	1:94:A:GLN:HE21	1:110:A:VAL:HG13	8	0.23
(1,1035)	1:94:A:GLN:HE22	1:110:A:VAL:HG11	8	0.23
(1,1035)	1:94:A:GLN:HE22	1:110:A:VAL:HG12	8	0.23
(1,1035)	1:94:A:GLN:HE22	1:110:A:VAL:HG13	8	0.23
(1,1010)	1:87:A:ARG:HD2	1:91:A:LEU:HD21	9	0.23
(1,1010)	1:87:A:ARG:HD2	1:91:A:LEU:HD22	9	0.23
(1,1010)	1:87:A:ARG:HD2	1:91:A:LEU:HD23	9	0.23
(1,1010)	1:87:A:ARG:HD3	1:91:A:LEU:HD21	9	0.23
(1,1010)	1:87:A:ARG:HD3	1:91:A:LEU:HD22	9	0.23
(1,1010)	1:87:A:ARG:HD3	1:91:A:LEU:HD23	9	0.23
(1,987)	1:76:A:GLU:HA	1:79:A:ARG:HD2	4	0.23
(1,987)	1:76:A:GLU:HA	1:79:A:ARG:HD3	4	0.23
(1,967)	1:64:A:GLN:HA	1:64:A:GLN:HE21	3	0.23
(1,967)	1:64:A:GLN:HA	1:64:A:GLN:HE22	3	0.23
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG11	7	0.23
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG12	7	0.23
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG13	7	0.23
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG21	7	0.23
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG22	7	0.23
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG23	7	0.23
(1,798)	1:13:A:SER:HB2	1:16:A:LYS:H	8	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,798)	1:13:A:SER:HB3	1:16:A:LYS:H	8	0.23
(1,739)	1:30:A:ALA:HB1	1:34:A:THR:H	6	0.23
(1,739)	1:30:A:ALA:HB2	1:34:A:THR:H	6	0.23
(1,739)	1:30:A:ALA:HB3	1:34:A:THR:H	6	0.23
(1,656)	1:34:A:THR:HB	1:35:A:ARG:H	2	0.23
(1,640)	1:30:A:ALA:HA	1:34:A:THR:H	2	0.23
(1,632)	1:103:A:ASP:H	1:104:A:GLU:H	5	0.23
(1,531)	1:109:A:ALA:H	1:110:A:VAL:HG21	6	0.23
(1,531)	1:109:A:ALA:H	1:110:A:VAL:HG22	6	0.23
(1,531)	1:109:A:ALA:H	1:110:A:VAL:HG23	6	0.23
(1,270)	1:29:A:ASN:HA	1:32:A:LEU:HD21	8	0.23
(1,270)	1:29:A:ASN:HA	1:32:A:LEU:HD22	8	0.23
(1,270)	1:29:A:ASN:HA	1:32:A:LEU:HD23	8	0.23
(1,152)	1:40:A:PHE:HD1	1:48:A:VAL:HG21	4	0.23
(1,152)	1:40:A:PHE:HD1	1:48:A:VAL:HG22	4	0.23
(1,152)	1:40:A:PHE:HD1	1:48:A:VAL:HG23	4	0.23
(1,152)	1:40:A:PHE:HD2	1:48:A:VAL:HG21	4	0.23
(1,152)	1:40:A:PHE:HD2	1:48:A:VAL:HG22	4	0.23
(1,152)	1:40:A:PHE:HD2	1:48:A:VAL:HG23	4	0.23
(1,76)	1:70:A:ILE:HD11	1:82:A:GLU:HG2	2	0.23
(1,76)	1:70:A:ILE:HD11	1:82:A:GLU:HG3	2	0.23
(1,76)	1:70:A:ILE:HD12	1:82:A:GLU:HG2	2	0.23
(1,76)	1:70:A:ILE:HD12	1:82:A:GLU:HG3	2	0.23
(1,76)	1:70:A:ILE:HD13	1:82:A:GLU:HG2	2	0.23
(1,76)	1:70:A:ILE:HD13	1:82:A:GLU:HG3	2	0.23
(1,49)	1:124:A:ILE:HG21	1:128:A:ALA:HA	1	0.23
(1,49)	1:124:A:ILE:HG22	1:128:A:ALA:HA	1	0.23
(1,49)	1:124:A:ILE:HG23	1:128:A:ALA:HA	1	0.23
(1,49)	1:124:A:ILE:HG21	1:128:A:ALA:HA	6	0.23
(1,49)	1:124:A:ILE:HG22	1:128:A:ALA:HA	6	0.23
(1,49)	1:124:A:ILE:HG23	1:128:A:ALA:HA	6	0.23
(1,49)	1:124:A:ILE:HG21	1:128:A:ALA:HA	7	0.23
(1,49)	1:124:A:ILE:HG22	1:128:A:ALA:HA	7	0.23
(1,49)	1:124:A:ILE:HG23	1:128:A:ALA:HA	7	0.23
(1,1013)	1:88:A:ASN:HD21	1:91:A:LEU:HD11	3	0.22
(1,1013)	1:88:A:ASN:HD21	1:91:A:LEU:HD12	3	0.22
(1,1013)	1:88:A:ASN:HD21	1:91:A:LEU:HD13	3	0.22
(1,1013)	1:88:A:ASN:HD22	1:91:A:LEU:HD11	3	0.22
(1,1013)	1:88:A:ASN:HD22	1:91:A:LEU:HD12	3	0.22
(1,1013)	1:88:A:ASN:HD22	1:91:A:LEU:HD13	3	0.22
(1,967)	1:64:A:GLN:HA	1:64:A:GLN:HE21	8	0.22
(1,967)	1:64:A:GLN:HA	1:64:A:GLN:HE22	8	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,881)	1:36:A:LEU:HD11	1:37:A:VAL:HG11	2	0.22
(1,881)	1:36:A:LEU:HD11	1:37:A:VAL:HG12	2	0.22
(1,881)	1:36:A:LEU:HD11	1:37:A:VAL:HG13	2	0.22
(1,881)	1:36:A:LEU:HD11	1:37:A:VAL:HG21	2	0.22
(1,881)	1:36:A:LEU:HD11	1:37:A:VAL:HG22	2	0.22
(1,881)	1:36:A:LEU:HD11	1:37:A:VAL:HG23	2	0.22
(1,881)	1:36:A:LEU:HD12	1:37:A:VAL:HG11	2	0.22
(1,881)	1:36:A:LEU:HD12	1:37:A:VAL:HG12	2	0.22
(1,881)	1:36:A:LEU:HD12	1:37:A:VAL:HG13	2	0.22
(1,881)	1:36:A:LEU:HD12	1:37:A:VAL:HG21	2	0.22
(1,881)	1:36:A:LEU:HD12	1:37:A:VAL:HG22	2	0.22
(1,881)	1:36:A:LEU:HD12	1:37:A:VAL:HG23	2	0.22
(1,881)	1:36:A:LEU:HD13	1:37:A:VAL:HG11	2	0.22
(1,881)	1:36:A:LEU:HD13	1:37:A:VAL:HG12	2	0.22
(1,881)	1:36:A:LEU:HD13	1:37:A:VAL:HG13	2	0.22
(1,881)	1:36:A:LEU:HD13	1:37:A:VAL:HG21	2	0.22
(1,881)	1:36:A:LEU:HD13	1:37:A:VAL:HG22	2	0.22
(1,881)	1:36:A:LEU:HD13	1:37:A:VAL:HG23	2	0.22
(1,881)	1:36:A:LEU:HD21	1:37:A:VAL:HG11	2	0.22
(1,881)	1:36:A:LEU:HD21	1:37:A:VAL:HG12	2	0.22
(1,881)	1:36:A:LEU:HD21	1:37:A:VAL:HG13	2	0.22
(1,881)	1:36:A:LEU:HD21	1:37:A:VAL:HG21	2	0.22
(1,881)	1:36:A:LEU:HD21	1:37:A:VAL:HG22	2	0.22
(1,881)	1:36:A:LEU:HD21	1:37:A:VAL:HG23	2	0.22
(1,881)	1:36:A:LEU:HD22	1:37:A:VAL:HG11	2	0.22
(1,881)	1:36:A:LEU:HD22	1:37:A:VAL:HG12	2	0.22
(1,881)	1:36:A:LEU:HD22	1:37:A:VAL:HG13	2	0.22
(1,881)	1:36:A:LEU:HD22	1:37:A:VAL:HG21	2	0.22
(1,881)	1:36:A:LEU:HD22	1:37:A:VAL:HG22	2	0.22
(1,881)	1:36:A:LEU:HD22	1:37:A:VAL:HG23	2	0.22
(1,881)	1:36:A:LEU:HD23	1:37:A:VAL:HG11	2	0.22
(1,881)	1:36:A:LEU:HD23	1:37:A:VAL:HG12	2	0.22
(1,881)	1:36:A:LEU:HD23	1:37:A:VAL:HG13	2	0.22
(1,881)	1:36:A:LEU:HD23	1:37:A:VAL:HG21	2	0.22
(1,881)	1:36:A:LEU:HD23	1:37:A:VAL:HG22	2	0.22
(1,881)	1:36:A:LEU:HD23	1:37:A:VAL:HG23	2	0.22
(1,881)	1:36:A:LEU:HD11	1:37:A:VAL:HG11	9	0.22
(1,881)	1:36:A:LEU:HD11	1:37:A:VAL:HG12	9	0.22
(1,881)	1:36:A:LEU:HD11	1:37:A:VAL:HG13	9	0.22
(1,881)	1:36:A:LEU:HD11	1:37:A:VAL:HG21	9	0.22
(1,881)	1:36:A:LEU:HD11	1:37:A:VAL:HG22	9	0.22
(1,881)	1:36:A:LEU:HD11	1:37:A:VAL:HG23	9	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,881)	1:36:A:LEU:HD12	1:37:A:VAL:HG11	9	0.22
(1,881)	1:36:A:LEU:HD12	1:37:A:VAL:HG12	9	0.22
(1,881)	1:36:A:LEU:HD12	1:37:A:VAL:HG13	9	0.22
(1,881)	1:36:A:LEU:HD12	1:37:A:VAL:HG21	9	0.22
(1,881)	1:36:A:LEU:HD12	1:37:A:VAL:HG22	9	0.22
(1,881)	1:36:A:LEU:HD12	1:37:A:VAL:HG23	9	0.22
(1,881)	1:36:A:LEU:HD13	1:37:A:VAL:HG11	9	0.22
(1,881)	1:36:A:LEU:HD13	1:37:A:VAL:HG12	9	0.22
(1,881)	1:36:A:LEU:HD13	1:37:A:VAL:HG13	9	0.22
(1,881)	1:36:A:LEU:HD13	1:37:A:VAL:HG21	9	0.22
(1,881)	1:36:A:LEU:HD13	1:37:A:VAL:HG22	9	0.22
(1,881)	1:36:A:LEU:HD13	1:37:A:VAL:HG23	9	0.22
(1,881)	1:36:A:LEU:HD21	1:37:A:VAL:HG11	9	0.22
(1,881)	1:36:A:LEU:HD21	1:37:A:VAL:HG12	9	0.22
(1,881)	1:36:A:LEU:HD21	1:37:A:VAL:HG13	9	0.22
(1,881)	1:36:A:LEU:HD21	1:37:A:VAL:HG21	9	0.22
(1,881)	1:36:A:LEU:HD21	1:37:A:VAL:HG22	9	0.22
(1,881)	1:36:A:LEU:HD21	1:37:A:VAL:HG23	9	0.22
(1,881)	1:36:A:LEU:HD22	1:37:A:VAL:HG11	9	0.22
(1,881)	1:36:A:LEU:HD22	1:37:A:VAL:HG12	9	0.22
(1,881)	1:36:A:LEU:HD22	1:37:A:VAL:HG13	9	0.22
(1,881)	1:36:A:LEU:HD22	1:37:A:VAL:HG21	9	0.22
(1,881)	1:36:A:LEU:HD22	1:37:A:VAL:HG22	9	0.22
(1,881)	1:36:A:LEU:HD22	1:37:A:VAL:HG23	9	0.22
(1,881)	1:36:A:LEU:HD23	1:37:A:VAL:HG11	9	0.22
(1,881)	1:36:A:LEU:HD23	1:37:A:VAL:HG12	9	0.22
(1,881)	1:36:A:LEU:HD23	1:37:A:VAL:HG13	9	0.22
(1,881)	1:36:A:LEU:HD23	1:37:A:VAL:HG21	9	0.22
(1,881)	1:36:A:LEU:HD23	1:37:A:VAL:HG22	9	0.22
(1,881)	1:36:A:LEU:HD23	1:37:A:VAL:HG23	9	0.22
(1,830)	1:24:A:LYS:H	1:24:A:LYS:HG2	6	0.22
(1,830)	1:24:A:LYS:H	1:24:A:LYS:HG3	6	0.22
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG11	3	0.22
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG12	3	0.22
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG13	3	0.22
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG21	3	0.22
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG22	3	0.22
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG23	3	0.22
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG11	6	0.22
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG12	6	0.22
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG13	6	0.22
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG21	6	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG22	6	0.22
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG23	6	0.22
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG11	9	0.22
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG12	9	0.22
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG13	9	0.22
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG21	9	0.22
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG22	9	0.22
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG23	9	0.22
(1,798)	1:13:A:SER:HB2	1:16:A:LYS:H	7	0.22
(1,798)	1:13:A:SER:HB3	1:16:A:LYS:H	7	0.22
(1,798)	1:13:A:SER:HB2	1:16:A:LYS:H	10	0.22
(1,798)	1:13:A:SER:HB3	1:16:A:LYS:H	10	0.22
(1,796)	1:12:A:GLN:HB2	1:12:A:GLN:HE21	4	0.22
(1,796)	1:12:A:GLN:HB2	1:12:A:GLN:HE22	4	0.22
(1,796)	1:12:A:GLN:HB3	1:12:A:GLN:HE21	4	0.22
(1,796)	1:12:A:GLN:HB3	1:12:A:GLN:HE22	4	0.22
(1,796)	1:12:A:GLN:HB2	1:12:A:GLN:HE21	10	0.22
(1,796)	1:12:A:GLN:HB2	1:12:A:GLN:HE22	10	0.22
(1,796)	1:12:A:GLN:HB3	1:12:A:GLN:HE21	10	0.22
(1,796)	1:12:A:GLN:HB3	1:12:A:GLN:HE22	10	0.22
(1,604)	1:39:A:ALA:H	1:47:A:THR:HG21	1	0.22
(1,604)	1:39:A:ALA:H	1:47:A:THR:HG22	1	0.22
(1,604)	1:39:A:ALA:H	1:47:A:THR:HG23	1	0.22
(1,550)	1:56:A:ASP:H	1:56:A:ASP:HB3	2	0.22
(1,550)	1:56:A:ASP:H	1:56:A:ASP:HB3	6	0.22
(1,550)	1:56:A:ASP:H	1:56:A:ASP:HB3	9	0.22
(1,527)	1:7:A:GLU:H	1:7:A:GLU:HG2	7	0.22
(1,527)	1:7:A:GLU:H	1:7:A:GLU:HG3	7	0.22
(1,221)	1:39:A:ALA:HA	1:47:A:THR:HG21	5	0.22
(1,221)	1:39:A:ALA:HA	1:47:A:THR:HG22	5	0.22
(1,221)	1:39:A:ALA:HA	1:47:A:THR:HG23	5	0.22
(1,221)	1:39:A:ALA:HA	1:47:A:THR:HG21	7	0.22
(1,221)	1:39:A:ALA:HA	1:47:A:THR:HG22	7	0.22
(1,221)	1:39:A:ALA:HA	1:47:A:THR:HG23	7	0.22
(1,1112)	1:130:A:LYS:H	1:130:A:LYS:HD2	5	0.21
(1,1112)	1:130:A:LYS:H	1:130:A:LYS:HD3	5	0.21
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD11	9	0.21
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD12	9	0.21
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD13	9	0.21
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD21	9	0.21
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD22	9	0.21
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD23	9	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD11	10	0.21
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD12	10	0.21
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD13	10	0.21
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD21	10	0.21
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD22	10	0.21
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD23	10	0.21
(1,1013)	1:88:A:ASN:HD21	1:91:A:LEU:HD11	9	0.21
(1,1013)	1:88:A:ASN:HD21	1:91:A:LEU:HD12	9	0.21
(1,1013)	1:88:A:ASN:HD21	1:91:A:LEU:HD13	9	0.21
(1,1013)	1:88:A:ASN:HD22	1:91:A:LEU:HD11	9	0.21
(1,1013)	1:88:A:ASN:HD22	1:91:A:LEU:HD12	9	0.21
(1,1013)	1:88:A:ASN:HD22	1:91:A:LEU:HD13	9	0.21
(1,967)	1:64:A:GLN:HA	1:64:A:GLN:HE21	9	0.21
(1,967)	1:64:A:GLN:HA	1:64:A:GLN:HE22	9	0.21
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG11	1	0.21
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG12	1	0.21
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG13	1	0.21
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG21	1	0.21
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG22	1	0.21
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG23	1	0.21
(1,796)	1:12:A:GLN:HB2	1:12:A:GLN:HE21	3	0.21
(1,796)	1:12:A:GLN:HB2	1:12:A:GLN:HE22	3	0.21
(1,796)	1:12:A:GLN:HB3	1:12:A:GLN:HE21	3	0.21
(1,796)	1:12:A:GLN:HB3	1:12:A:GLN:HE22	3	0.21
(1,796)	1:12:A:GLN:HB2	1:12:A:GLN:HE21	7	0.21
(1,796)	1:12:A:GLN:HB2	1:12:A:GLN:HE22	7	0.21
(1,796)	1:12:A:GLN:HB3	1:12:A:GLN:HE21	7	0.21
(1,796)	1:12:A:GLN:HB3	1:12:A:GLN:HE22	7	0.21
(1,759)	1:129:A:GLN:HA	1:129:A:GLN:HE21	4	0.21
(1,759)	1:129:A:GLN:HA	1:129:A:GLN:HE22	4	0.21
(1,664)	1:88:A:ASN:HD21	1:91:A:LEU:HD11	8	0.21
(1,664)	1:88:A:ASN:HD21	1:91:A:LEU:HD12	8	0.21
(1,664)	1:88:A:ASN:HD21	1:91:A:LEU:HD13	8	0.21
(1,651)	1:47:A:THR:HG21	1:49:A:ASP:H	8	0.21
(1,651)	1:47:A:THR:HG22	1:49:A:ASP:H	8	0.21
(1,651)	1:47:A:THR:HG23	1:49:A:ASP:H	8	0.21
(1,632)	1:103:A:ASP:H	1:104:A:GLU:H	1	0.21
(1,632)	1:103:A:ASP:H	1:104:A:GLU:H	10	0.21
(1,550)	1:56:A:ASP:H	1:56:A:ASP:HB3	8	0.21
(1,545)	1:123:A:GLN:H	1:124:A:ILE:HD11	7	0.21
(1,545)	1:123:A:GLN:H	1:124:A:ILE:HD12	7	0.21
(1,545)	1:123:A:GLN:H	1:124:A:ILE:HD13	7	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,545)	1:123:A:GLN:H	1:124:A:ILE:HD11	9	0.21
(1,545)	1:123:A:GLN:H	1:124:A:ILE:HD12	9	0.21
(1,545)	1:123:A:GLN:H	1:124:A:ILE:HD13	9	0.21
(1,531)	1:109:A:ALA:H	1:110:A:VAL:HG21	2	0.21
(1,531)	1:109:A:ALA:H	1:110:A:VAL:HG22	2	0.21
(1,531)	1:109:A:ALA:H	1:110:A:VAL:HG23	2	0.21
(1,527)	1:7:A:GLU:H	1:7:A:GLU:HG2	4	0.21
(1,527)	1:7:A:GLU:H	1:7:A:GLU:HG3	4	0.21
(1,408)	1:124:A:ILE:HG21	1:128:A:ALA:H	4	0.21
(1,408)	1:124:A:ILE:HG22	1:128:A:ALA:H	4	0.21
(1,408)	1:124:A:ILE:HG23	1:128:A:ALA:H	4	0.21
(1,238)	1:54:A:GLN:HG2	1:55:A:LEU:H	9	0.21
(1,199)	1:35:A:ARG:HA	1:35:A:ARG:HE	1	0.21
(1,101)	1:39:A:ALA:HB1	1:42:A:SER:HB2	6	0.21
(1,101)	1:39:A:ALA:HB1	1:42:A:SER:HB3	6	0.21
(1,101)	1:39:A:ALA:HB2	1:42:A:SER:HB2	6	0.21
(1,101)	1:39:A:ALA:HB2	1:42:A:SER:HB3	6	0.21
(1,101)	1:39:A:ALA:HB3	1:42:A:SER:HB2	6	0.21
(1,101)	1:39:A:ALA:HB3	1:42:A:SER:HB3	6	0.21
(1,82)	1:124:A:ILE:HA	1:127:A:GLU:HB3	1	0.21
(1,1035)	1:94:A:GLN:HE21	1:110:A:VAL:HG11	2	0.2
(1,1035)	1:94:A:GLN:HE21	1:110:A:VAL:HG12	2	0.2
(1,1035)	1:94:A:GLN:HE21	1:110:A:VAL:HG13	2	0.2
(1,1035)	1:94:A:GLN:HE22	1:110:A:VAL:HG11	2	0.2
(1,1035)	1:94:A:GLN:HE22	1:110:A:VAL:HG12	2	0.2
(1,1035)	1:94:A:GLN:HE22	1:110:A:VAL:HG13	2	0.2
(1,1010)	1:87:A:ARG:HD2	1:91:A:LEU:HD21	8	0.2
(1,1010)	1:87:A:ARG:HD2	1:91:A:LEU:HD22	8	0.2
(1,1010)	1:87:A:ARG:HD2	1:91:A:LEU:HD23	8	0.2
(1,1010)	1:87:A:ARG:HD3	1:91:A:LEU:HD21	8	0.2
(1,1010)	1:87:A:ARG:HD3	1:91:A:LEU:HD22	8	0.2
(1,1010)	1:87:A:ARG:HD3	1:91:A:LEU:HD23	8	0.2
(1,967)	1:64:A:GLN:HA	1:64:A:GLN:HE21	1	0.2
(1,967)	1:64:A:GLN:HA	1:64:A:GLN:HE22	1	0.2
(1,967)	1:64:A:GLN:HA	1:64:A:GLN:HE21	4	0.2
(1,967)	1:64:A:GLN:HA	1:64:A:GLN:HE22	4	0.2
(1,967)	1:64:A:GLN:HA	1:64:A:GLN:HE21	5	0.2
(1,967)	1:64:A:GLN:HA	1:64:A:GLN:HE22	5	0.2
(1,967)	1:64:A:GLN:HA	1:64:A:GLN:HE21	6	0.2
(1,967)	1:64:A:GLN:HA	1:64:A:GLN:HE22	6	0.2
(1,967)	1:64:A:GLN:HA	1:64:A:GLN:HE21	7	0.2
(1,967)	1:64:A:GLN:HA	1:64:A:GLN:HE22	7	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,967)	1:64:A:GLN:HA	1:64:A:GLN:HE21	10	0.2
(1,967)	1:64:A:GLN:HA	1:64:A:GLN:HE22	10	0.2
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG11	2	0.2
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG12	2	0.2
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG13	2	0.2
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG21	2	0.2
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG22	2	0.2
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG23	2	0.2
(1,796)	1:12:A:GLN:HB2	1:12:A:GLN:HE21	2	0.2
(1,796)	1:12:A:GLN:HB2	1:12:A:GLN:HE22	2	0.2
(1,796)	1:12:A:GLN:HB3	1:12:A:GLN:HE21	2	0.2
(1,796)	1:12:A:GLN:HB3	1:12:A:GLN:HE22	2	0.2
(1,793)	1:6:A:HIS:HB2	1:7:A:GLU:HG2	3	0.2
(1,793)	1:6:A:HIS:HB2	1:7:A:GLU:HG3	3	0.2
(1,793)	1:6:A:HIS:HB3	1:7:A:GLU:HG2	3	0.2
(1,793)	1:6:A:HIS:HB3	1:7:A:GLU:HG3	3	0.2
(1,673)	1:105:A:ASP:HA	1:107:A:ALA:H	6	0.2
(1,632)	1:103:A:ASP:H	1:104:A:GLU:H	3	0.2
(1,632)	1:103:A:ASP:H	1:104:A:GLU:H	7	0.2
(1,632)	1:103:A:ASP:H	1:104:A:GLU:H	9	0.2
(1,623)	1:35:A:ARG:H	1:35:A:ARG:HG2	1	0.2
(1,278)	1:53:A:LYS:HA	1:53:A:LYS:HE2	1	0.2
(1,278)	1:53:A:LYS:HA	1:53:A:LYS:HE3	1	0.2
(1,278)	1:53:A:LYS:HA	1:53:A:LYS:HE2	5	0.2
(1,278)	1:53:A:LYS:HA	1:53:A:LYS:HE3	5	0.2
(1,278)	1:53:A:LYS:HA	1:53:A:LYS:HE2	7	0.2
(1,278)	1:53:A:LYS:HA	1:53:A:LYS:HE3	7	0.2
(1,278)	1:53:A:LYS:HA	1:53:A:LYS:HE2	8	0.2
(1,278)	1:53:A:LYS:HA	1:53:A:LYS:HE3	8	0.2
(1,270)	1:29:A:ASN:HA	1:32:A:LEU:HD21	3	0.2
(1,270)	1:29:A:ASN:HA	1:32:A:LEU:HD22	3	0.2
(1,270)	1:29:A:ASN:HA	1:32:A:LEU:HD23	3	0.2
(1,171)	1:37:A:VAL:HA	1:39:A:ALA:HB1	6	0.2
(1,171)	1:37:A:VAL:HA	1:39:A:ALA:HB2	6	0.2
(1,171)	1:37:A:VAL:HA	1:39:A:ALA:HB3	6	0.2
(1,169)	1:35:A:ARG:HA	1:35:A:ARG:HD3	5	0.2
(1,82)	1:124:A:ILE:HA	1:127:A:GLU:HB3	7	0.2
(1,76)	1:70:A:ILE:HD11	1:82:A:GLU:HG2	8	0.2
(1,76)	1:70:A:ILE:HD11	1:82:A:GLU:HG3	8	0.2
(1,76)	1:70:A:ILE:HD12	1:82:A:GLU:HG2	8	0.2
(1,76)	1:70:A:ILE:HD12	1:82:A:GLU:HG3	8	0.2
(1,76)	1:70:A:ILE:HD13	1:82:A:GLU:HG2	8	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,76)	1:70:A:ILE:HD13	1:82:A:GLU:HG3	8	0.2
(1,54)	1:95:A:LEU:HD11	1:107:A:ALA:HA	4	0.2
(1,54)	1:95:A:LEU:HD12	1:107:A:ALA:HA	4	0.2
(1,54)	1:95:A:LEU:HD13	1:107:A:ALA:HA	4	0.2
(1,918)	1:47:A:THR:HG21	1:48:A:VAL:HG11	6	0.19
(1,918)	1:47:A:THR:HG21	1:48:A:VAL:HG12	6	0.19
(1,918)	1:47:A:THR:HG21	1:48:A:VAL:HG13	6	0.19
(1,918)	1:47:A:THR:HG21	1:48:A:VAL:HG21	6	0.19
(1,918)	1:47:A:THR:HG21	1:48:A:VAL:HG22	6	0.19
(1,918)	1:47:A:THR:HG21	1:48:A:VAL:HG23	6	0.19
(1,918)	1:47:A:THR:HG22	1:48:A:VAL:HG11	6	0.19
(1,918)	1:47:A:THR:HG22	1:48:A:VAL:HG12	6	0.19
(1,918)	1:47:A:THR:HG22	1:48:A:VAL:HG13	6	0.19
(1,918)	1:47:A:THR:HG22	1:48:A:VAL:HG21	6	0.19
(1,918)	1:47:A:THR:HG22	1:48:A:VAL:HG22	6	0.19
(1,918)	1:47:A:THR:HG22	1:48:A:VAL:HG23	6	0.19
(1,918)	1:47:A:THR:HG23	1:48:A:VAL:HG11	6	0.19
(1,918)	1:47:A:THR:HG23	1:48:A:VAL:HG12	6	0.19
(1,918)	1:47:A:THR:HG23	1:48:A:VAL:HG13	6	0.19
(1,918)	1:47:A:THR:HG23	1:48:A:VAL:HG21	6	0.19
(1,918)	1:47:A:THR:HG23	1:48:A:VAL:HG22	6	0.19
(1,918)	1:47:A:THR:HG23	1:48:A:VAL:HG23	6	0.19
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG11	4	0.19
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG12	4	0.19
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG13	4	0.19
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG21	4	0.19
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG22	4	0.19
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG23	4	0.19
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG11	8	0.19
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG12	8	0.19
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG13	8	0.19
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG21	8	0.19
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG22	8	0.19
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG23	8	0.19
(1,759)	1:129:A:GLN:HA	1:129:A:GLN:HE21	10	0.19
(1,759)	1:129:A:GLN:HA	1:129:A:GLN:HE22	10	0.19
(1,545)	1:123:A:GLN:H	1:124:A:ILE:HD11	4	0.19
(1,545)	1:123:A:GLN:H	1:124:A:ILE:HD12	4	0.19
(1,545)	1:123:A:GLN:H	1:124:A:ILE:HD13	4	0.19
(1,545)	1:123:A:GLN:H	1:124:A:ILE:HD11	5	0.19
(1,545)	1:123:A:GLN:H	1:124:A:ILE:HD12	5	0.19
(1,545)	1:123:A:GLN:H	1:124:A:ILE:HD13	5	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,545)	1:123:A:GLN:H	1:124:A:ILE:HD11	6	0.19
(1,545)	1:123:A:GLN:H	1:124:A:ILE:HD12	6	0.19
(1,545)	1:123:A:GLN:H	1:124:A:ILE:HD13	6	0.19
(1,531)	1:109:A:ALA:H	1:110:A:VAL:HG21	3	0.19
(1,531)	1:109:A:ALA:H	1:110:A:VAL:HG22	3	0.19
(1,531)	1:109:A:ALA:H	1:110:A:VAL:HG23	3	0.19
(1,531)	1:109:A:ALA:H	1:110:A:VAL:HG21	5	0.19
(1,531)	1:109:A:ALA:H	1:110:A:VAL:HG22	5	0.19
(1,531)	1:109:A:ALA:H	1:110:A:VAL:HG23	5	0.19
(1,531)	1:109:A:ALA:H	1:110:A:VAL:HG21	10	0.19
(1,531)	1:109:A:ALA:H	1:110:A:VAL:HG22	10	0.19
(1,531)	1:109:A:ALA:H	1:110:A:VAL:HG23	10	0.19
(1,408)	1:124:A:ILE:HG21	1:128:A:ALA:H	3	0.19
(1,408)	1:124:A:ILE:HG22	1:128:A:ALA:H	3	0.19
(1,408)	1:124:A:ILE:HG23	1:128:A:ALA:H	3	0.19
(1,408)	1:124:A:ILE:HG21	1:128:A:ALA:H	10	0.19
(1,408)	1:124:A:ILE:HG22	1:128:A:ALA:H	10	0.19
(1,408)	1:124:A:ILE:HG23	1:128:A:ALA:H	10	0.19
(1,306)	1:21:A:GLU:H	1:21:A:GLU:HG3	6	0.19
(1,278)	1:53:A:LYS:HA	1:53:A:LYS:HE2	2	0.19
(1,278)	1:53:A:LYS:HA	1:53:A:LYS:HE3	2	0.19
(1,278)	1:53:A:LYS:HA	1:53:A:LYS:HE2	6	0.19
(1,278)	1:53:A:LYS:HA	1:53:A:LYS:HE3	6	0.19
(1,278)	1:53:A:LYS:HA	1:53:A:LYS:HE2	9	0.19
(1,278)	1:53:A:LYS:HA	1:53:A:LYS:HE3	9	0.19
(1,274)	1:21:A:GLU:H	1:21:A:GLU:HG2	6	0.19
(1,169)	1:35:A:ARG:HA	1:35:A:ARG:HD3	4	0.19
(1,169)	1:35:A:ARG:HA	1:35:A:ARG:HD3	8	0.19
(1,101)	1:39:A:ALA:HB1	1:42:A:SER:HB2	2	0.19
(1,101)	1:39:A:ALA:HB1	1:42:A:SER:HB3	2	0.19
(1,101)	1:39:A:ALA:HB2	1:42:A:SER:HB2	2	0.19
(1,101)	1:39:A:ALA:HB2	1:42:A:SER:HB3	2	0.19
(1,101)	1:39:A:ALA:HB3	1:42:A:SER:HB2	2	0.19
(1,101)	1:39:A:ALA:HB3	1:42:A:SER:HB3	2	0.19
(1,49)	1:124:A:ILE:HG21	1:128:A:ALA:HA	9	0.19
(1,49)	1:124:A:ILE:HG22	1:128:A:ALA:HA	9	0.19
(1,49)	1:124:A:ILE:HG23	1:128:A:ALA:HA	9	0.19
(1,952)	1:54:A:GLN:HB2	1:54:A:GLN:HE21	4	0.18
(1,952)	1:54:A:GLN:HB2	1:54:A:GLN:HE22	4	0.18
(1,952)	1:54:A:GLN:HB3	1:54:A:GLN:HE21	4	0.18
(1,952)	1:54:A:GLN:HB3	1:54:A:GLN:HE22	4	0.18
(1,918)	1:47:A:THR:HG21	1:48:A:VAL:HG11	3	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,918)	1:47:A:THR:HG21	1:48:A:VAL:HG12	3	0.18
(1,918)	1:47:A:THR:HG21	1:48:A:VAL:HG13	3	0.18
(1,918)	1:47:A:THR:HG21	1:48:A:VAL:HG21	3	0.18
(1,918)	1:47:A:THR:HG21	1:48:A:VAL:HG22	3	0.18
(1,918)	1:47:A:THR:HG21	1:48:A:VAL:HG23	3	0.18
(1,918)	1:47:A:THR:HG22	1:48:A:VAL:HG11	3	0.18
(1,918)	1:47:A:THR:HG22	1:48:A:VAL:HG12	3	0.18
(1,918)	1:47:A:THR:HG22	1:48:A:VAL:HG13	3	0.18
(1,918)	1:47:A:THR:HG22	1:48:A:VAL:HG21	3	0.18
(1,918)	1:47:A:THR:HG22	1:48:A:VAL:HG22	3	0.18
(1,918)	1:47:A:THR:HG22	1:48:A:VAL:HG23	3	0.18
(1,918)	1:47:A:THR:HG23	1:48:A:VAL:HG11	3	0.18
(1,918)	1:47:A:THR:HG23	1:48:A:VAL:HG12	3	0.18
(1,918)	1:47:A:THR:HG23	1:48:A:VAL:HG13	3	0.18
(1,918)	1:47:A:THR:HG23	1:48:A:VAL:HG21	3	0.18
(1,918)	1:47:A:THR:HG23	1:48:A:VAL:HG22	3	0.18
(1,918)	1:47:A:THR:HG23	1:48:A:VAL:HG23	3	0.18
(1,880)	1:36:A:LEU:HD11	1:37:A:VAL:HA	8	0.18
(1,880)	1:36:A:LEU:HD12	1:37:A:VAL:HA	8	0.18
(1,880)	1:36:A:LEU:HD13	1:37:A:VAL:HA	8	0.18
(1,880)	1:36:A:LEU:HD21	1:37:A:VAL:HA	8	0.18
(1,880)	1:36:A:LEU:HD22	1:37:A:VAL:HA	8	0.18
(1,880)	1:36:A:LEU:HD23	1:37:A:VAL:HA	8	0.18
(1,864)	1:35:A:ARG:H	1:35:A:ARG:HG2	1	0.18
(1,864)	1:35:A:ARG:H	1:35:A:ARG:HG3	1	0.18
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG11	10	0.18
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG12	10	0.18
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG13	10	0.18
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG21	10	0.18
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG22	10	0.18
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG23	10	0.18
(1,796)	1:12:A:GLN:HB2	1:12:A:GLN:HE21	9	0.18
(1,796)	1:12:A:GLN:HB2	1:12:A:GLN:HE22	9	0.18
(1,796)	1:12:A:GLN:HB3	1:12:A:GLN:HE21	9	0.18
(1,796)	1:12:A:GLN:HB3	1:12:A:GLN:HE22	9	0.18
(1,768)	1:28:A:GLU:HG2	1:30:A:ALA:H	6	0.18
(1,768)	1:28:A:GLU:HG3	1:30:A:ALA:H	6	0.18
(1,531)	1:109:A:ALA:H	1:110:A:VAL:HG21	1	0.18
(1,531)	1:109:A:ALA:H	1:110:A:VAL:HG22	1	0.18
(1,531)	1:109:A:ALA:H	1:110:A:VAL:HG23	1	0.18
(1,531)	1:109:A:ALA:H	1:110:A:VAL:HG21	4	0.18
(1,531)	1:109:A:ALA:H	1:110:A:VAL:HG22	4	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,531)	1:109:A:ALA:H	1:110:A:VAL:HG23	4	0.18
(1,531)	1:109:A:ALA:H	1:110:A:VAL:HG21	8	0.18
(1,531)	1:109:A:ALA:H	1:110:A:VAL:HG22	8	0.18
(1,531)	1:109:A:ALA:H	1:110:A:VAL:HG23	8	0.18
(1,270)	1:29:A:ASN:HA	1:32:A:LEU:HD21	9	0.18
(1,270)	1:29:A:ASN:HA	1:32:A:LEU:HD22	9	0.18
(1,270)	1:29:A:ASN:HA	1:32:A:LEU:HD23	9	0.18
(1,54)	1:95:A:LEU:HD11	1:107:A:ALA:HA	7	0.18
(1,54)	1:95:A:LEU:HD12	1:107:A:ALA:HA	7	0.18
(1,54)	1:95:A:LEU:HD13	1:107:A:ALA:HA	7	0.18
(1,18)	1:126:A:THR:HB	1:127:A:GLU:HA	3	0.18
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD11	2	0.17
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD12	2	0.17
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD13	2	0.17
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD21	2	0.17
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD22	2	0.17
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD23	2	0.17
(1,1040)	1:95:A:LEU:HG	1:111:A:LEU:HD11	3	0.17
(1,1040)	1:95:A:LEU:HG	1:111:A:LEU:HD12	3	0.17
(1,1040)	1:95:A:LEU:HG	1:111:A:LEU:HD13	3	0.17
(1,1040)	1:95:A:LEU:HG	1:111:A:LEU:HD21	3	0.17
(1,1040)	1:95:A:LEU:HG	1:111:A:LEU:HD22	3	0.17
(1,1040)	1:95:A:LEU:HG	1:111:A:LEU:HD23	3	0.17
(1,952)	1:54:A:GLN:HB2	1:54:A:GLN:HE21	2	0.17
(1,952)	1:54:A:GLN:HB2	1:54:A:GLN:HE22	2	0.17
(1,952)	1:54:A:GLN:HB3	1:54:A:GLN:HE21	2	0.17
(1,952)	1:54:A:GLN:HB3	1:54:A:GLN:HE22	2	0.17
(1,796)	1:12:A:GLN:HB2	1:12:A:GLN:HE21	1	0.17
(1,796)	1:12:A:GLN:HB2	1:12:A:GLN:HE22	1	0.17
(1,796)	1:12:A:GLN:HB3	1:12:A:GLN:HE21	1	0.17
(1,796)	1:12:A:GLN:HB3	1:12:A:GLN:HE22	1	0.17
(1,793)	1:6:A:HIS:HB2	1:7:A:GLU:HG2	6	0.17
(1,793)	1:6:A:HIS:HB2	1:7:A:GLU:HG3	6	0.17
(1,793)	1:6:A:HIS:HB3	1:7:A:GLU:HG2	6	0.17
(1,793)	1:6:A:HIS:HB3	1:7:A:GLU:HG3	6	0.17
(1,793)	1:6:A:HIS:HB2	1:7:A:GLU:HG2	9	0.17
(1,793)	1:6:A:HIS:HB2	1:7:A:GLU:HG3	9	0.17
(1,793)	1:6:A:HIS:HB3	1:7:A:GLU:HG2	9	0.17
(1,793)	1:6:A:HIS:HB3	1:7:A:GLU:HG3	9	0.17
(1,739)	1:30:A:ALA:HB1	1:34:A:THR:H	8	0.17
(1,739)	1:30:A:ALA:HB2	1:34:A:THR:H	8	0.17
(1,739)	1:30:A:ALA:HB3	1:34:A:THR:H	8	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,739)	1:30:A:ALA:HB1	1:34:A:THR:H	9	0.17
(1,739)	1:30:A:ALA:HB2	1:34:A:THR:H	9	0.17
(1,739)	1:30:A:ALA:HB3	1:34:A:THR:H	9	0.17
(1,673)	1:105:A:ASP:HA	1:107:A:ALA:H	2	0.17
(1,427)	1:131:A:ARG:HA	1:132:A:LEU:H	7	0.17
(1,169)	1:35:A:ARG:HA	1:35:A:ARG:HD3	7	0.17
(1,152)	1:40:A:PHE:HD1	1:48:A:VAL:HG21	3	0.17
(1,152)	1:40:A:PHE:HD1	1:48:A:VAL:HG22	3	0.17
(1,152)	1:40:A:PHE:HD1	1:48:A:VAL:HG23	3	0.17
(1,152)	1:40:A:PHE:HD2	1:48:A:VAL:HG21	3	0.17
(1,152)	1:40:A:PHE:HD2	1:48:A:VAL:HG22	3	0.17
(1,152)	1:40:A:PHE:HD2	1:48:A:VAL:HG23	3	0.17
(1,101)	1:39:A:ALA:HB1	1:42:A:SER:HB2	10	0.17
(1,101)	1:39:A:ALA:HB1	1:42:A:SER:HB3	10	0.17
(1,101)	1:39:A:ALA:HB2	1:42:A:SER:HB2	10	0.17
(1,101)	1:39:A:ALA:HB2	1:42:A:SER:HB3	10	0.17
(1,101)	1:39:A:ALA:HB3	1:42:A:SER:HB2	10	0.17
(1,101)	1:39:A:ALA:HB3	1:42:A:SER:HB3	10	0.17
(1,49)	1:124:A:ILE:HG21	1:128:A:ALA:HA	5	0.17
(1,49)	1:124:A:ILE:HG22	1:128:A:ALA:HA	5	0.17
(1,49)	1:124:A:ILE:HG23	1:128:A:ALA:HA	5	0.17
(1,1041)	1:95:A:LEU:HD11	1:107:A:ALA:H	10	0.16
(1,1041)	1:95:A:LEU:HD12	1:107:A:ALA:H	10	0.16
(1,1041)	1:95:A:LEU:HD13	1:107:A:ALA:H	10	0.16
(1,1041)	1:95:A:LEU:HD21	1:107:A:ALA:H	10	0.16
(1,1041)	1:95:A:LEU:HD22	1:107:A:ALA:H	10	0.16
(1,1041)	1:95:A:LEU:HD23	1:107:A:ALA:H	10	0.16
(1,1010)	1:87:A:ARG:HD2	1:91:A:LEU:HD21	10	0.16
(1,1010)	1:87:A:ARG:HD2	1:91:A:LEU:HD22	10	0.16
(1,1010)	1:87:A:ARG:HD2	1:91:A:LEU:HD23	10	0.16
(1,1010)	1:87:A:ARG:HD3	1:91:A:LEU:HD21	10	0.16
(1,1010)	1:87:A:ARG:HD3	1:91:A:LEU:HD22	10	0.16
(1,1010)	1:87:A:ARG:HD3	1:91:A:LEU:HD23	10	0.16
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG11	5	0.16
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG12	5	0.16
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG13	5	0.16
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG21	5	0.16
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG22	5	0.16
(1,818)	1:21:A:GLU:H	1:23:A:VAL:HG23	5	0.16
(1,798)	1:13:A:SER:HB2	1:16:A:LYS:H	2	0.16
(1,798)	1:13:A:SER:HB3	1:16:A:LYS:H	2	0.16
(1,739)	1:30:A:ALA:HB1	1:34:A:THR:H	3	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,739)	1:30:A:ALA:HB2	1:34:A:THR:H	3	0.16
(1,739)	1:30:A:ALA:HB3	1:34:A:THR:H	3	0.16
(1,651)	1:47:A:THR:HG21	1:49:A:ASP:H	1	0.16
(1,651)	1:47:A:THR:HG22	1:49:A:ASP:H	1	0.16
(1,651)	1:47:A:THR:HG23	1:49:A:ASP:H	1	0.16
(1,651)	1:47:A:THR:HG21	1:49:A:ASP:H	7	0.16
(1,651)	1:47:A:THR:HG22	1:49:A:ASP:H	7	0.16
(1,651)	1:47:A:THR:HG23	1:49:A:ASP:H	7	0.16
(1,531)	1:109:A:ALA:H	1:110:A:VAL:HG21	7	0.16
(1,531)	1:109:A:ALA:H	1:110:A:VAL:HG22	7	0.16
(1,531)	1:109:A:ALA:H	1:110:A:VAL:HG23	7	0.16
(1,404)	1:34:A:THR:H	1:34:A:THR:HB	2	0.16
(1,287)	1:104:A:GLU:HB2	1:107:A:ALA:HB1	6	0.16
(1,287)	1:104:A:GLU:HB2	1:107:A:ALA:HB2	6	0.16
(1,287)	1:104:A:GLU:HB2	1:107:A:ALA:HB3	6	0.16
(1,287)	1:104:A:GLU:HB3	1:107:A:ALA:HB1	6	0.16
(1,287)	1:104:A:GLU:HB3	1:107:A:ALA:HB2	6	0.16
(1,287)	1:104:A:GLU:HB3	1:107:A:ALA:HB3	6	0.16
(1,270)	1:29:A:ASN:HA	1:32:A:LEU:HD21	2	0.16
(1,270)	1:29:A:ASN:HA	1:32:A:LEU:HD22	2	0.16
(1,270)	1:29:A:ASN:HA	1:32:A:LEU:HD23	2	0.16
(1,169)	1:35:A:ARG:HA	1:35:A:ARG:HD3	9	0.16
(1,101)	1:39:A:ALA:HB1	1:42:A:SER:HB2	5	0.16
(1,101)	1:39:A:ALA:HB1	1:42:A:SER:HB3	5	0.16
(1,101)	1:39:A:ALA:HB2	1:42:A:SER:HB2	5	0.16
(1,101)	1:39:A:ALA:HB2	1:42:A:SER:HB3	5	0.16
(1,101)	1:39:A:ALA:HB3	1:42:A:SER:HB2	5	0.16
(1,101)	1:39:A:ALA:HB3	1:42:A:SER:HB3	5	0.16
(1,18)	1:126:A:THR:HB	1:127:A:GLU:HA	8	0.16
(1,952)	1:54:A:GLN:HB2	1:54:A:GLN:HE21	3	0.15
(1,952)	1:54:A:GLN:HB2	1:54:A:GLN:HE22	3	0.15
(1,952)	1:54:A:GLN:HB3	1:54:A:GLN:HE21	3	0.15
(1,952)	1:54:A:GLN:HB3	1:54:A:GLN:HE22	3	0.15
(1,918)	1:47:A:THR:HG21	1:48:A:VAL:HG11	2	0.15
(1,918)	1:47:A:THR:HG21	1:48:A:VAL:HG12	2	0.15
(1,918)	1:47:A:THR:HG21	1:48:A:VAL:HG13	2	0.15
(1,918)	1:47:A:THR:HG21	1:48:A:VAL:HG21	2	0.15
(1,918)	1:47:A:THR:HG21	1:48:A:VAL:HG22	2	0.15
(1,918)	1:47:A:THR:HG21	1:48:A:VAL:HG23	2	0.15
(1,918)	1:47:A:THR:HG22	1:48:A:VAL:HG11	2	0.15
(1,918)	1:47:A:THR:HG22	1:48:A:VAL:HG12	2	0.15
(1,918)	1:47:A:THR:HG22	1:48:A:VAL:HG13	2	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,918)	1:47:A:THR:HG22	1:48:A:VAL:HG21	2	0.15
(1,918)	1:47:A:THR:HG22	1:48:A:VAL:HG22	2	0.15
(1,918)	1:47:A:THR:HG22	1:48:A:VAL:HG23	2	0.15
(1,918)	1:47:A:THR:HG23	1:48:A:VAL:HG11	2	0.15
(1,918)	1:47:A:THR:HG23	1:48:A:VAL:HG12	2	0.15
(1,918)	1:47:A:THR:HG23	1:48:A:VAL:HG13	2	0.15
(1,918)	1:47:A:THR:HG23	1:48:A:VAL:HG21	2	0.15
(1,918)	1:47:A:THR:HG23	1:48:A:VAL:HG22	2	0.15
(1,918)	1:47:A:THR:HG23	1:48:A:VAL:HG23	2	0.15
(1,832)	1:24:A:LYS:HG2	1:25:A:LEU:H	1	0.15
(1,832)	1:24:A:LYS:HG3	1:25:A:LEU:H	1	0.15
(1,832)	1:24:A:LYS:HG2	1:25:A:LEU:H	3	0.15
(1,832)	1:24:A:LYS:HG3	1:25:A:LEU:H	3	0.15
(1,832)	1:24:A:LYS:HG2	1:25:A:LEU:H	5	0.15
(1,832)	1:24:A:LYS:HG3	1:25:A:LEU:H	5	0.15
(1,832)	1:24:A:LYS:HG2	1:25:A:LEU:H	8	0.15
(1,832)	1:24:A:LYS:HG3	1:25:A:LEU:H	8	0.15
(1,748)	1:7:A:GLU:HG2	1:8:A:ASN:H	3	0.15
(1,748)	1:7:A:GLU:HG3	1:8:A:ASN:H	3	0.15
(1,582)	1:91:A:LEU:HG	1:92:A:PHE:H	3	0.15
(1,582)	1:91:A:LEU:HG	1:92:A:PHE:H	6	0.15
(1,427)	1:131:A:ARG:HA	1:132:A:LEU:H	4	0.15
(1,261)	1:124:A:ILE:HD11	1:127:A:GLU:HB3	8	0.15
(1,261)	1:124:A:ILE:HD12	1:127:A:GLU:HB3	8	0.15
(1,261)	1:124:A:ILE:HD13	1:127:A:GLU:HB3	8	0.15
(1,169)	1:35:A:ARG:HA	1:35:A:ARG:HD3	3	0.15
(1,169)	1:35:A:ARG:HA	1:35:A:ARG:HD3	6	0.15
(1,54)	1:95:A:LEU:HD11	1:107:A:ALA:HA	1	0.15
(1,54)	1:95:A:LEU:HD12	1:107:A:ALA:HA	1	0.15
(1,54)	1:95:A:LEU:HD13	1:107:A:ALA:HA	1	0.15
(1,41)	1:132:A:LEU:H	1:132:A:LEU:HG	10	0.15
(1,18)	1:126:A:THR:HB	1:127:A:GLU:HA	9	0.15
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD11	4	0.14
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD12	4	0.14
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD13	4	0.14
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD21	4	0.14
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD22	4	0.14
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD23	4	0.14
(1,1041)	1:95:A:LEU:HD11	1:107:A:ALA:H	4	0.14
(1,1041)	1:95:A:LEU:HD12	1:107:A:ALA:H	4	0.14
(1,1041)	1:95:A:LEU:HD13	1:107:A:ALA:H	4	0.14
(1,1041)	1:95:A:LEU:HD21	1:107:A:ALA:H	4	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1041)	1:95:A:LEU:HD22	1:107:A:ALA:H	4	0.14
(1,1041)	1:95:A:LEU:HD23	1:107:A:ALA:H	4	0.14
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD11	5	0.14
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD12	5	0.14
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD13	5	0.14
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD21	5	0.14
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD22	5	0.14
(1,994)	1:80:A:LYS:HD2	1:84:A:LEU:HD23	5	0.14
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD11	5	0.14
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD12	5	0.14
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD13	5	0.14
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD21	5	0.14
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD22	5	0.14
(1,994)	1:80:A:LYS:HD3	1:84:A:LEU:HD23	5	0.14
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD11	9	0.14
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD12	9	0.14
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD13	9	0.14
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD21	9	0.14
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD22	9	0.14
(1,956)	1:54:A:GLN:HG2	1:55:A:LEU:HD23	9	0.14
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD11	9	0.14
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD12	9	0.14
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD13	9	0.14
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD21	9	0.14
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD22	9	0.14
(1,956)	1:54:A:GLN:HG3	1:55:A:LEU:HD23	9	0.14
(1,918)	1:47:A:THR:HG21	1:48:A:VAL:HG11	1	0.14
(1,918)	1:47:A:THR:HG21	1:48:A:VAL:HG12	1	0.14
(1,918)	1:47:A:THR:HG21	1:48:A:VAL:HG13	1	0.14
(1,918)	1:47:A:THR:HG21	1:48:A:VAL:HG21	1	0.14
(1,918)	1:47:A:THR:HG21	1:48:A:VAL:HG22	1	0.14
(1,918)	1:47:A:THR:HG21	1:48:A:VAL:HG23	1	0.14
(1,918)	1:47:A:THR:HG22	1:48:A:VAL:HG11	1	0.14
(1,918)	1:47:A:THR:HG22	1:48:A:VAL:HG12	1	0.14
(1,918)	1:47:A:THR:HG22	1:48:A:VAL:HG13	1	0.14
(1,918)	1:47:A:THR:HG22	1:48:A:VAL:HG21	1	0.14
(1,918)	1:47:A:THR:HG22	1:48:A:VAL:HG22	1	0.14
(1,918)	1:47:A:THR:HG22	1:48:A:VAL:HG23	1	0.14
(1,918)	1:47:A:THR:HG23	1:48:A:VAL:HG11	1	0.14
(1,918)	1:47:A:THR:HG23	1:48:A:VAL:HG12	1	0.14
(1,918)	1:47:A:THR:HG23	1:48:A:VAL:HG13	1	0.14
(1,918)	1:47:A:THR:HG23	1:48:A:VAL:HG21	1	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,918)	1:47:A:THR:HG23	1:48:A:VAL:HG22	1	0.14
(1,918)	1:47:A:THR:HG23	1:48:A:VAL:HG23	1	0.14
(1,918)	1:47:A:THR:HG21	1:48:A:VAL:HG11	7	0.14
(1,918)	1:47:A:THR:HG21	1:48:A:VAL:HG12	7	0.14
(1,918)	1:47:A:THR:HG21	1:48:A:VAL:HG13	7	0.14
(1,918)	1:47:A:THR:HG21	1:48:A:VAL:HG21	7	0.14
(1,918)	1:47:A:THR:HG21	1:48:A:VAL:HG22	7	0.14
(1,918)	1:47:A:THR:HG21	1:48:A:VAL:HG23	7	0.14
(1,918)	1:47:A:THR:HG22	1:48:A:VAL:HG11	7	0.14
(1,918)	1:47:A:THR:HG22	1:48:A:VAL:HG12	7	0.14
(1,918)	1:47:A:THR:HG22	1:48:A:VAL:HG13	7	0.14
(1,918)	1:47:A:THR:HG22	1:48:A:VAL:HG21	7	0.14
(1,918)	1:47:A:THR:HG22	1:48:A:VAL:HG22	7	0.14
(1,918)	1:47:A:THR:HG22	1:48:A:VAL:HG23	7	0.14
(1,918)	1:47:A:THR:HG23	1:48:A:VAL:HG11	7	0.14
(1,918)	1:47:A:THR:HG23	1:48:A:VAL:HG12	7	0.14
(1,918)	1:47:A:THR:HG23	1:48:A:VAL:HG13	7	0.14
(1,918)	1:47:A:THR:HG23	1:48:A:VAL:HG21	7	0.14
(1,918)	1:47:A:THR:HG23	1:48:A:VAL:HG22	7	0.14
(1,918)	1:47:A:THR:HG23	1:48:A:VAL:HG23	7	0.14
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG11	8	0.14
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG12	8	0.14
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG13	8	0.14
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG21	8	0.14
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG22	8	0.14
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG23	8	0.14
(1,832)	1:24:A:LYS:HG2	1:25:A:LEU:H	4	0.14
(1,832)	1:24:A:LYS:HG3	1:25:A:LEU:H	4	0.14
(1,651)	1:47:A:THR:HG21	1:49:A:ASP:H	5	0.14
(1,651)	1:47:A:THR:HG22	1:49:A:ASP:H	5	0.14
(1,651)	1:47:A:THR:HG23	1:49:A:ASP:H	5	0.14
(1,639)	1:124:A:ILE:HG21	1:127:A:GLU:H	3	0.14
(1,639)	1:124:A:ILE:HG22	1:127:A:GLU:H	3	0.14
(1,639)	1:124:A:ILE:HG23	1:127:A:GLU:H	3	0.14
(1,604)	1:39:A:ALA:H	1:47:A:THR:HG21	7	0.14
(1,604)	1:39:A:ALA:H	1:47:A:THR:HG22	7	0.14
(1,604)	1:39:A:ALA:H	1:47:A:THR:HG23	7	0.14
(1,531)	1:109:A:ALA:H	1:110:A:VAL:HG21	9	0.14
(1,531)	1:109:A:ALA:H	1:110:A:VAL:HG22	9	0.14
(1,531)	1:109:A:ALA:H	1:110:A:VAL:HG23	9	0.14
(1,525)	1:39:A:ALA:HB1	1:44:A:ASP:H	2	0.14
(1,525)	1:39:A:ALA:HB2	1:44:A:ASP:H	2	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,525)	1:39:A:ALA:HB3	1:44:A:ASP:H	2	0.14
(1,199)	1:35:A:ARG:HA	1:35:A:ARG:HE	10	0.14
(1,118)	1:21:A:GLU:HA	1:21:A:GLU:HG3	1	0.14
(1,118)	1:21:A:GLU:HA	1:21:A:GLU:HG3	3	0.14
(1,118)	1:21:A:GLU:HA	1:21:A:GLU:HG3	4	0.14
(1,118)	1:21:A:GLU:HA	1:21:A:GLU:HG3	5	0.14
(1,118)	1:21:A:GLU:HA	1:21:A:GLU:HG3	8	0.14
(1,82)	1:124:A:ILE:HA	1:127:A:GLU:HB3	2	0.14
(1,18)	1:126:A:THR:HB	1:127:A:GLU:HA	7	0.14
(1,1117)	1:132:A:LEU:HA	1:132:A:LEU:HD11	10	0.13
(1,1117)	1:132:A:LEU:HA	1:132:A:LEU:HD12	10	0.13
(1,1117)	1:132:A:LEU:HA	1:132:A:LEU:HD13	10	0.13
(1,1117)	1:132:A:LEU:HA	1:132:A:LEU:HD21	10	0.13
(1,1117)	1:132:A:LEU:HA	1:132:A:LEU:HD22	10	0.13
(1,1117)	1:132:A:LEU:HA	1:132:A:LEU:HD23	10	0.13
(1,1032)	1:94:A:GLN:HB2	1:94:A:GLN:HE21	1	0.13
(1,1032)	1:94:A:GLN:HB2	1:94:A:GLN:HE22	1	0.13
(1,1032)	1:94:A:GLN:HB3	1:94:A:GLN:HE21	1	0.13
(1,1032)	1:94:A:GLN:HB3	1:94:A:GLN:HE22	1	0.13
(1,1032)	1:94:A:GLN:HB2	1:94:A:GLN:HE21	3	0.13
(1,1032)	1:94:A:GLN:HB2	1:94:A:GLN:HE22	3	0.13
(1,1032)	1:94:A:GLN:HB3	1:94:A:GLN:HE21	3	0.13
(1,1032)	1:94:A:GLN:HB3	1:94:A:GLN:HE22	3	0.13
(1,1032)	1:94:A:GLN:HB2	1:94:A:GLN:HE21	6	0.13
(1,1032)	1:94:A:GLN:HB2	1:94:A:GLN:HE22	6	0.13
(1,1032)	1:94:A:GLN:HB3	1:94:A:GLN:HE21	6	0.13
(1,1032)	1:94:A:GLN:HB3	1:94:A:GLN:HE22	6	0.13
(1,1032)	1:94:A:GLN:HB2	1:94:A:GLN:HE21	10	0.13
(1,1032)	1:94:A:GLN:HB2	1:94:A:GLN:HE22	10	0.13
(1,1032)	1:94:A:GLN:HB3	1:94:A:GLN:HE21	10	0.13
(1,1032)	1:94:A:GLN:HB3	1:94:A:GLN:HE22	10	0.13
(1,1010)	1:87:A:ARG:HD2	1:91:A:LEU:HD21	4	0.13
(1,1010)	1:87:A:ARG:HD2	1:91:A:LEU:HD22	4	0.13
(1,1010)	1:87:A:ARG:HD2	1:91:A:LEU:HD23	4	0.13
(1,1010)	1:87:A:ARG:HD3	1:91:A:LEU:HD21	4	0.13
(1,1010)	1:87:A:ARG:HD3	1:91:A:LEU:HD22	4	0.13
(1,1010)	1:87:A:ARG:HD3	1:91:A:LEU:HD23	4	0.13
(1,988)	1:76:A:GLU:HB2	1:77:A:LEU:HB2	4	0.13
(1,988)	1:76:A:GLU:HB2	1:77:A:LEU:HB3	4	0.13
(1,988)	1:76:A:GLU:HB3	1:77:A:LEU:HB2	4	0.13
(1,988)	1:76:A:GLU:HB3	1:77:A:LEU:HB3	4	0.13
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG11	7	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG12	7	0.13
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG13	7	0.13
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG21	7	0.13
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG22	7	0.13
(1,858)	1:33:A:TRP:HE1	1:37:A:VAL:HG23	7	0.13
(1,798)	1:13:A:SER:HB2	1:16:A:LYS:H	6	0.13
(1,798)	1:13:A:SER:HB3	1:16:A:LYS:H	6	0.13
(1,787)	1:70:A:ILE:HD11	1:82:A:GLU:H	3	0.13
(1,787)	1:70:A:ILE:HD12	1:82:A:GLU:H	3	0.13
(1,787)	1:70:A:ILE:HD13	1:82:A:GLU:H	3	0.13
(1,604)	1:39:A:ALA:H	1:47:A:THR:HG21	3	0.13
(1,604)	1:39:A:ALA:H	1:47:A:THR:HG22	3	0.13
(1,604)	1:39:A:ALA:H	1:47:A:THR:HG23	3	0.13
(1,427)	1:131:A:ARG:HA	1:132:A:LEU:H	1	0.13
(1,408)	1:124:A:ILE:HG21	1:128:A:ALA:H	8	0.13
(1,408)	1:124:A:ILE:HG22	1:128:A:ALA:H	8	0.13
(1,408)	1:124:A:ILE:HG23	1:128:A:ALA:H	8	0.13
(1,270)	1:29:A:ASN:HA	1:32:A:LEU:HD21	6	0.13
(1,270)	1:29:A:ASN:HA	1:32:A:LEU:HD22	6	0.13
(1,270)	1:29:A:ASN:HA	1:32:A:LEU:HD23	6	0.13
(1,169)	1:35:A:ARG:HA	1:35:A:ARG:HD3	2	0.13
(1,118)	1:21:A:GLU:HA	1:21:A:GLU:HG3	2	0.13
(1,118)	1:21:A:GLU:HA	1:21:A:GLU:HG3	7	0.13
(1,118)	1:21:A:GLU:HA	1:21:A:GLU:HG3	9	0.13
(1,118)	1:21:A:GLU:HA	1:21:A:GLU:HG3	10	0.13
(1,18)	1:126:A:THR:HB	1:127:A:GLU:HA	2	0.13
(1,18)	1:126:A:THR:HB	1:127:A:GLU:HA	5	0.13
(1,18)	1:126:A:THR:HB	1:127:A:GLU:HA	6	0.13
(1,18)	1:126:A:THR:HB	1:127:A:GLU:HA	10	0.13
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD11	5	0.12
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD12	5	0.12
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD13	5	0.12
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD21	5	0.12
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD22	5	0.12
(1,1074)	1:109:A:ALA:H	1:111:A:LEU:HD23	5	0.12
(1,1032)	1:94:A:GLN:HB2	1:94:A:GLN:HE21	5	0.12
(1,1032)	1:94:A:GLN:HB2	1:94:A:GLN:HE22	5	0.12
(1,1032)	1:94:A:GLN:HB3	1:94:A:GLN:HE21	5	0.12
(1,1032)	1:94:A:GLN:HB3	1:94:A:GLN:HE22	5	0.12
(1,1032)	1:94:A:GLN:HB2	1:94:A:GLN:HE21	7	0.12
(1,1032)	1:94:A:GLN:HB2	1:94:A:GLN:HE22	7	0.12
(1,1032)	1:94:A:GLN:HB3	1:94:A:GLN:HE21	7	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1032)	1:94:A:GLN:HB3	1:94:A:GLN:HE22	7	0.12
(1,1010)	1:87:A:ARG:HD2	1:91:A:LEU:HD21	7	0.12
(1,1010)	1:87:A:ARG:HD2	1:91:A:LEU:HD22	7	0.12
(1,1010)	1:87:A:ARG:HD2	1:91:A:LEU:HD23	7	0.12
(1,1010)	1:87:A:ARG:HD3	1:91:A:LEU:HD21	7	0.12
(1,1010)	1:87:A:ARG:HD3	1:91:A:LEU:HD22	7	0.12
(1,1010)	1:87:A:ARG:HD3	1:91:A:LEU:HD23	7	0.12
(1,673)	1:105:A:ASP:HA	1:107:A:ALA:H	4	0.12
(1,673)	1:105:A:ASP:HA	1:107:A:ALA:H	8	0.12
(1,664)	1:88:A:ASN:HD21	1:91:A:LEU:HD11	5	0.12
(1,664)	1:88:A:ASN:HD21	1:91:A:LEU:HD12	5	0.12
(1,664)	1:88:A:ASN:HD21	1:91:A:LEU:HD13	5	0.12
(1,582)	1:91:A:LEU:HG	1:92:A:PHE:H	7	0.12
(1,582)	1:91:A:LEU:HG	1:92:A:PHE:H	10	0.12
(1,427)	1:131:A:ARG:HA	1:132:A:LEU:H	6	0.12
(1,273)	1:94:A:GLN:HG2	1:110:A:VAL:HG21	8	0.12
(1,273)	1:94:A:GLN:HG2	1:110:A:VAL:HG22	8	0.12
(1,273)	1:94:A:GLN:HG2	1:110:A:VAL:HG23	8	0.12
(1,273)	1:94:A:GLN:HG3	1:110:A:VAL:HG21	8	0.12
(1,273)	1:94:A:GLN:HG3	1:110:A:VAL:HG22	8	0.12
(1,273)	1:94:A:GLN:HG3	1:110:A:VAL:HG23	8	0.12
(1,174)	1:108:A:LYS:H	1:108:A:LYS:HD2	1	0.12
(1,174)	1:108:A:LYS:H	1:108:A:LYS:HD3	1	0.12
(1,174)	1:108:A:LYS:H	1:108:A:LYS:HD2	2	0.12
(1,174)	1:108:A:LYS:H	1:108:A:LYS:HD3	2	0.12
(1,174)	1:108:A:LYS:H	1:108:A:LYS:HD2	4	0.12
(1,174)	1:108:A:LYS:H	1:108:A:LYS:HD3	4	0.12
(1,174)	1:108:A:LYS:H	1:108:A:LYS:HD2	5	0.12
(1,174)	1:108:A:LYS:H	1:108:A:LYS:HD3	5	0.12
(1,174)	1:108:A:LYS:H	1:108:A:LYS:HD2	6	0.12
(1,174)	1:108:A:LYS:H	1:108:A:LYS:HD3	6	0.12
(1,174)	1:108:A:LYS:H	1:108:A:LYS:HD2	7	0.12
(1,174)	1:108:A:LYS:H	1:108:A:LYS:HD3	7	0.12
(1,174)	1:108:A:LYS:H	1:108:A:LYS:HD2	8	0.12
(1,174)	1:108:A:LYS:H	1:108:A:LYS:HD3	8	0.12
(1,174)	1:108:A:LYS:H	1:108:A:LYS:HD2	9	0.12
(1,174)	1:108:A:LYS:H	1:108:A:LYS:HD3	9	0.12
(1,174)	1:108:A:LYS:H	1:108:A:LYS:HD2	10	0.12
(1,174)	1:108:A:LYS:H	1:108:A:LYS:HD3	10	0.12
(1,159)	1:78:A:ALA:HB1	1:81:A:GLY:H	8	0.12
(1,159)	1:78:A:ALA:HB2	1:81:A:GLY:H	8	0.12
(1,159)	1:78:A:ALA:HB3	1:81:A:GLY:H	8	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,129)	1:17:A:GLN:HB2	1:20:A:ALA:HB1	1	0.12
(1,129)	1:17:A:GLN:HB2	1:20:A:ALA:HB2	1	0.12
(1,129)	1:17:A:GLN:HB2	1:20:A:ALA:HB3	1	0.12
(1,129)	1:17:A:GLN:HB3	1:20:A:ALA:HB1	1	0.12
(1,129)	1:17:A:GLN:HB3	1:20:A:ALA:HB2	1	0.12
(1,129)	1:17:A:GLN:HB3	1:20:A:ALA:HB3	1	0.12
(1,111)	1:39:A:ALA:HB1	1:44:A:ASP:HB2	3	0.12
(1,111)	1:39:A:ALA:HB2	1:44:A:ASP:HB2	3	0.12
(1,111)	1:39:A:ALA:HB3	1:44:A:ASP:HB2	3	0.12
(1,101)	1:39:A:ALA:HB1	1:42:A:SER:HB2	1	0.12
(1,101)	1:39:A:ALA:HB1	1:42:A:SER:HB3	1	0.12
(1,101)	1:39:A:ALA:HB2	1:42:A:SER:HB2	1	0.12
(1,101)	1:39:A:ALA:HB2	1:42:A:SER:HB3	1	0.12
(1,101)	1:39:A:ALA:HB3	1:42:A:SER:HB2	1	0.12
(1,101)	1:39:A:ALA:HB3	1:42:A:SER:HB3	1	0.12
(1,42)	1:98:A:LEU:HG	1:106:A:THR:HG21	3	0.12
(1,42)	1:98:A:LEU:HG	1:106:A:THR:HG22	3	0.12
(1,42)	1:98:A:LEU:HG	1:106:A:THR:HG23	3	0.12
(1,18)	1:126:A:THR:HB	1:127:A:GLU:HA	1	0.12
(1,18)	1:126:A:THR:HB	1:127:A:GLU:HA	4	0.12
(1,1045)	1:95:A:LEU:HD11	1:110:A:VAL:HG21	3	0.11
(1,1045)	1:95:A:LEU:HD11	1:110:A:VAL:HG22	3	0.11
(1,1045)	1:95:A:LEU:HD11	1:110:A:VAL:HG23	3	0.11
(1,1045)	1:95:A:LEU:HD12	1:110:A:VAL:HG21	3	0.11
(1,1045)	1:95:A:LEU:HD12	1:110:A:VAL:HG22	3	0.11
(1,1045)	1:95:A:LEU:HD12	1:110:A:VAL:HG23	3	0.11
(1,1045)	1:95:A:LEU:HD13	1:110:A:VAL:HG21	3	0.11
(1,1045)	1:95:A:LEU:HD13	1:110:A:VAL:HG22	3	0.11
(1,1045)	1:95:A:LEU:HD13	1:110:A:VAL:HG23	3	0.11
(1,1045)	1:95:A:LEU:HD21	1:110:A:VAL:HG21	3	0.11
(1,1045)	1:95:A:LEU:HD21	1:110:A:VAL:HG22	3	0.11
(1,1045)	1:95:A:LEU:HD21	1:110:A:VAL:HG23	3	0.11
(1,1045)	1:95:A:LEU:HD22	1:110:A:VAL:HG21	3	0.11
(1,1045)	1:95:A:LEU:HD22	1:110:A:VAL:HG22	3	0.11
(1,1045)	1:95:A:LEU:HD22	1:110:A:VAL:HG23	3	0.11
(1,1045)	1:95:A:LEU:HD23	1:110:A:VAL:HG21	3	0.11
(1,1045)	1:95:A:LEU:HD23	1:110:A:VAL:HG22	3	0.11
(1,1045)	1:95:A:LEU:HD23	1:110:A:VAL:HG23	3	0.11
(1,1010)	1:87:A:ARG:HD2	1:91:A:LEU:HD21	1	0.11
(1,1010)	1:87:A:ARG:HD2	1:91:A:LEU:HD22	1	0.11
(1,1010)	1:87:A:ARG:HD2	1:91:A:LEU:HD23	1	0.11
(1,1010)	1:87:A:ARG:HD3	1:91:A:LEU:HD21	1	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1010)	1:87:A:ARG:HD3	1:91:A:LEU:HD22	1	0.11
(1,1010)	1:87:A:ARG:HD3	1:91:A:LEU:HD23	1	0.11
(1,1010)	1:87:A:ARG:HD2	1:91:A:LEU:HD21	5	0.11
(1,1010)	1:87:A:ARG:HD2	1:91:A:LEU:HD22	5	0.11
(1,1010)	1:87:A:ARG:HD2	1:91:A:LEU:HD23	5	0.11
(1,1010)	1:87:A:ARG:HD3	1:91:A:LEU:HD21	5	0.11
(1,1010)	1:87:A:ARG:HD3	1:91:A:LEU:HD22	5	0.11
(1,1010)	1:87:A:ARG:HD3	1:91:A:LEU:HD23	5	0.11
(1,991)	1:79:A:ARG:H	1:79:A:ARG:HD2	4	0.11
(1,991)	1:79:A:ARG:H	1:79:A:ARG:HD3	4	0.11
(1,884)	1:36:A:LEU:HD11	1:51:A:LEU:HA	10	0.11
(1,884)	1:36:A:LEU:HD12	1:51:A:LEU:HA	10	0.11
(1,884)	1:36:A:LEU:HD13	1:51:A:LEU:HA	10	0.11
(1,884)	1:36:A:LEU:HD21	1:51:A:LEU:HA	10	0.11
(1,884)	1:36:A:LEU:HD22	1:51:A:LEU:HA	10	0.11
(1,884)	1:36:A:LEU:HD23	1:51:A:LEU:HA	10	0.11
(1,832)	1:24:A:LYS:HG2	1:25:A:LEU:H	2	0.11
(1,832)	1:24:A:LYS:HG3	1:25:A:LEU:H	2	0.11
(1,832)	1:24:A:LYS:HG2	1:25:A:LEU:H	7	0.11
(1,832)	1:24:A:LYS:HG3	1:25:A:LEU:H	7	0.11
(1,832)	1:24:A:LYS:HG2	1:25:A:LEU:H	9	0.11
(1,832)	1:24:A:LYS:HG3	1:25:A:LEU:H	9	0.11
(1,832)	1:24:A:LYS:HG2	1:25:A:LEU:H	10	0.11
(1,832)	1:24:A:LYS:HG3	1:25:A:LEU:H	10	0.11
(1,787)	1:70:A:ILE:HD11	1:82:A:GLU:H	8	0.11
(1,787)	1:70:A:ILE:HD12	1:82:A:GLU:H	8	0.11
(1,787)	1:70:A:ILE:HD13	1:82:A:GLU:H	8	0.11
(1,739)	1:30:A:ALA:HB1	1:34:A:THR:H	4	0.11
(1,739)	1:30:A:ALA:HB2	1:34:A:THR:H	4	0.11
(1,739)	1:30:A:ALA:HB3	1:34:A:THR:H	4	0.11
(1,706)	1:37:A:VAL:HA	1:39:A:ALA:H	2	0.11
(1,676)	1:90:A:GLN:H	1:91:A:LEU:HD21	6	0.11
(1,676)	1:90:A:GLN:H	1:91:A:LEU:HD22	6	0.11
(1,676)	1:90:A:GLN:H	1:91:A:LEU:HD23	6	0.11
(1,651)	1:47:A:THR:HG21	1:49:A:ASP:H	9	0.11
(1,651)	1:47:A:THR:HG22	1:49:A:ASP:H	9	0.11
(1,651)	1:47:A:THR:HG23	1:49:A:ASP:H	9	0.11
(1,582)	1:91:A:LEU:HG	1:92:A:PHE:H	1	0.11
(1,582)	1:91:A:LEU:HG	1:92:A:PHE:H	2	0.11
(1,582)	1:91:A:LEU:HG	1:92:A:PHE:H	5	0.11
(1,408)	1:124:A:ILE:HG21	1:128:A:ALA:H	1	0.11
(1,408)	1:124:A:ILE:HG22	1:128:A:ALA:H	1	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,408)	1:124:A:ILE:HG23	1:128:A:ALA:H	1	0.11
(1,174)	1:108:A:LYS:H	1:108:A:LYS:HD2	3	0.11
(1,174)	1:108:A:LYS:H	1:108:A:LYS:HD3	3	0.11
(1,159)	1:78:A:ALA:HB1	1:81:A:GLY:H	2	0.11
(1,159)	1:78:A:ALA:HB2	1:81:A:GLY:H	2	0.11
(1,159)	1:78:A:ALA:HB3	1:81:A:GLY:H	2	0.11
(1,111)	1:39:A:ALA:HB1	1:44:A:ASP:HB2	8	0.11
(1,111)	1:39:A:ALA:HB2	1:44:A:ASP:HB2	8	0.11
(1,111)	1:39:A:ALA:HB3	1:44:A:ASP:HB2	8	0.11
(1,82)	1:124:A:ILE:HA	1:127:A:GLU:HB3	5	0.11
(1,768)	1:28:A:GLU:HG2	1:30:A:ALA:H	10	0.1
(1,768)	1:28:A:GLU:HG3	1:30:A:ALA:H	10	0.1
(1,452)	1:63:A:GLU:H	1:63:A:GLU:HG2	1	0.1
(1,452)	1:63:A:GLU:H	1:63:A:GLU:HG3	1	0.1
(1,452)	1:63:A:GLU:H	1:63:A:GLU:HG2	2	0.1
(1,452)	1:63:A:GLU:H	1:63:A:GLU:HG3	2	0.1
(1,452)	1:63:A:GLU:H	1:63:A:GLU:HG2	3	0.1
(1,452)	1:63:A:GLU:H	1:63:A:GLU:HG3	3	0.1
(1,452)	1:63:A:GLU:H	1:63:A:GLU:HG2	4	0.1
(1,452)	1:63:A:GLU:H	1:63:A:GLU:HG3	4	0.1
(1,452)	1:63:A:GLU:H	1:63:A:GLU:HG2	5	0.1
(1,452)	1:63:A:GLU:H	1:63:A:GLU:HG3	5	0.1
(1,452)	1:63:A:GLU:H	1:63:A:GLU:HG2	6	0.1
(1,452)	1:63:A:GLU:H	1:63:A:GLU:HG3	6	0.1
(1,452)	1:63:A:GLU:H	1:63:A:GLU:HG2	7	0.1
(1,452)	1:63:A:GLU:H	1:63:A:GLU:HG3	7	0.1
(1,452)	1:63:A:GLU:H	1:63:A:GLU:HG2	9	0.1
(1,452)	1:63:A:GLU:H	1:63:A:GLU:HG3	9	0.1
(1,452)	1:63:A:GLU:H	1:63:A:GLU:HG2	10	0.1
(1,452)	1:63:A:GLU:H	1:63:A:GLU:HG3	10	0.1
(1,295)	1:56:A:ASP:HA	1:58:A:ASN:H	2	0.1
(1,129)	1:17:A:GLN:HB2	1:20:A:ALA:HB1	7	0.1
(1,129)	1:17:A:GLN:HB2	1:20:A:ALA:HB2	7	0.1
(1,129)	1:17:A:GLN:HB2	1:20:A:ALA:HB3	7	0.1
(1,129)	1:17:A:GLN:HB3	1:20:A:ALA:HB1	7	0.1
(1,129)	1:17:A:GLN:HB3	1:20:A:ALA:HB2	7	0.1
(1,129)	1:17:A:GLN:HB3	1:20:A:ALA:HB3	7	0.1

## 10 Dihedral-angle violation analysis

No dihedral-angle restraints found