



# Full wwPDB NMR Structure Validation Report ⓘ

Mar 5, 2026 – 05:32 PM UTC

PDB ID : 5O7J / pdb\_00005o7j  
BMRB ID : 26840  
Title : Structural insights into the periplasmic sensor domain of the GacS histidine kinase controlling biofilm formation in *Pseudomonas aeruginosa*  
Authors : Ali-Ahmad, A.; Borner, O.; Fadel, F.; Bourne, Y.; Vincent, F.; Guerlesquin, F.; Sebban-Kreuzer, C.  
Deposited on : 2017-06-09

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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

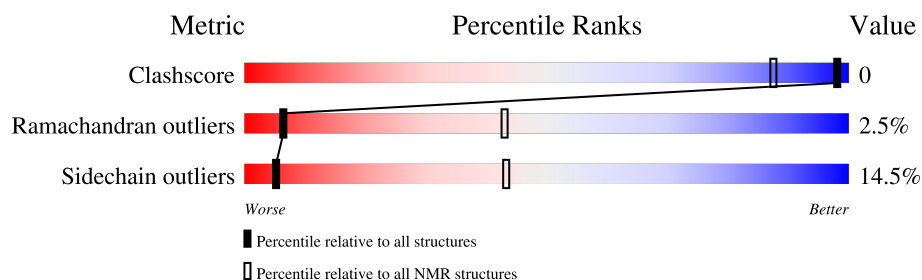
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*SOLUTION NMR*


The overall completeness of chemical shifts assignment is 89%.

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	150	 84% 9% • 6%

## 2 Ensemble composition and analysis ⓘ

This entry contains 20 models. Model 4 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:24-A:164 (141)	1.41	4

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

### 3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 2271 atoms, of which 1121 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Histidine kinase.

Mol	Chain	Residues	Atoms						Trace
1	A	150	Total	C	H	N	O	S	0
			2271	711	1121	217	218	4	

There are 23 discrepancies between the modelled and reference sequences:

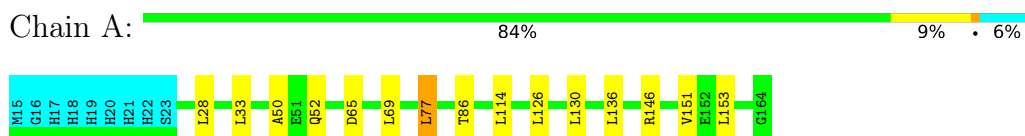
Chain	Residue	Modelled	Actual	Comment	Reference
A	15	MET	-	initiating methionine	UNP A0A0A8RMX6
A	16	GLY	-	expression tag	UNP A0A0A8RMX6
A	17	HIS	-	expression tag	UNP A0A0A8RMX6
A	18	HIS	-	expression tag	UNP A0A0A8RMX6
A	19	HIS	-	expression tag	UNP A0A0A8RMX6
A	20	HIS	-	expression tag	UNP A0A0A8RMX6
A	21	HIS	-	expression tag	UNP A0A0A8RMX6
A	22	HIS	-	expression tag	UNP A0A0A8RMX6
A	23	SER	-	expression tag	UNP A0A0A8RMX6
A	24	SER	-	expression tag	UNP A0A0A8RMX6
A	25	GLY	-	expression tag	UNP A0A0A8RMX6
A	26	VAL	-	expression tag	UNP A0A0A8RMX6
A	27	ASP	-	expression tag	UNP A0A0A8RMX6
A	28	LEU	-	expression tag	UNP A0A0A8RMX6
A	29	GLY	-	expression tag	UNP A0A0A8RMX6
A	30	THR	-	expression tag	UNP A0A0A8RMX6
A	31	GLU	-	expression tag	UNP A0A0A8RMX6
A	32	ASN	-	expression tag	UNP A0A0A8RMX6
A	33	LEU	-	expression tag	UNP A0A0A8RMX6
A	34	TYR	-	expression tag	UNP A0A0A8RMX6
A	35	PHE	-	expression tag	UNP A0A0A8RMX6
A	36	GLN	-	expression tag	UNP A0A0A8RMX6
A	37	SER	-	expression tag	UNP A0A0A8RMX6

## 4 Residue-property plots [i](#)

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

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

- Molecule 1: Histidine kinase

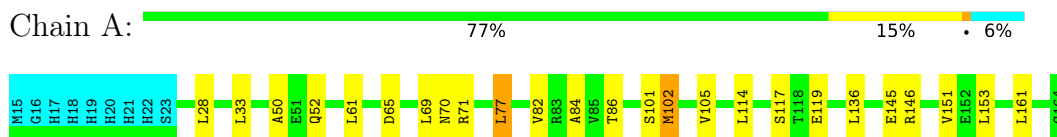


### 4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

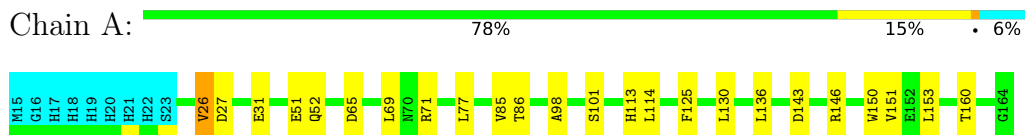
#### 4.2.1 Score per residue for model 1

- Molecule 1: Histidine kinase



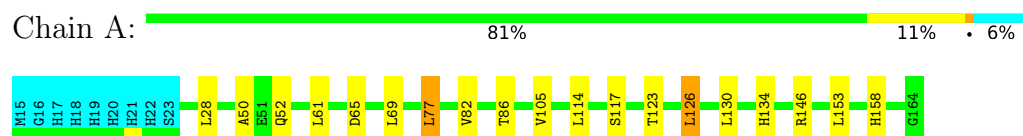
#### 4.2.2 Score per residue for model 2

- Molecule 1: Histidine kinase



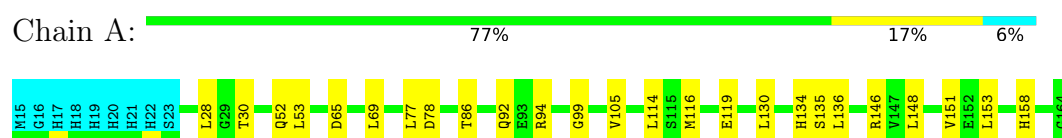
### 4.2.3 Score per residue for model 3

- Molecule 1: Histidine kinase



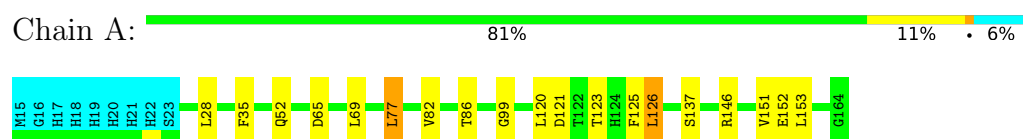
### 4.2.4 Score per residue for model 4 (medoid)

- Molecule 1: Histidine kinase



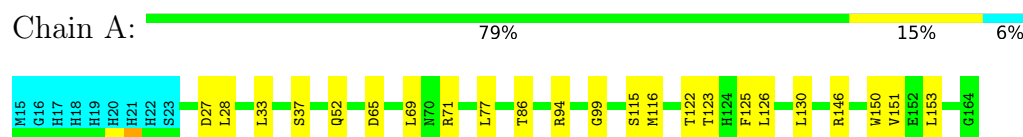
### 4.2.5 Score per residue for model 5

- Molecule 1: Histidine kinase



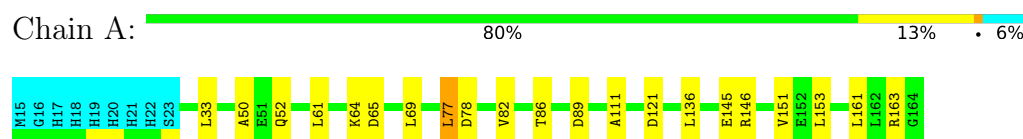
### 4.2.6 Score per residue for model 6

- Molecule 1: Histidine kinase



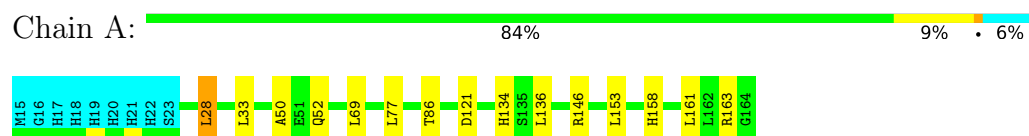
### 4.2.7 Score per residue for model 7

- Molecule 1: Histidine kinase



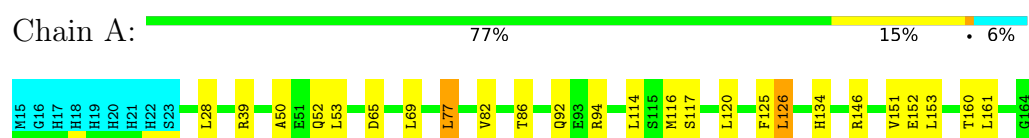
#### 4.2.8 Score per residue for model 8

- Molecule 1: Histidine kinase



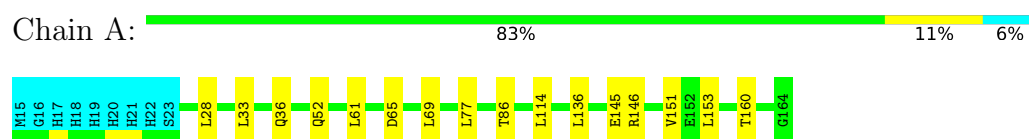
#### 4.2.9 Score per residue for model 9

- Molecule 1: Histidine kinase



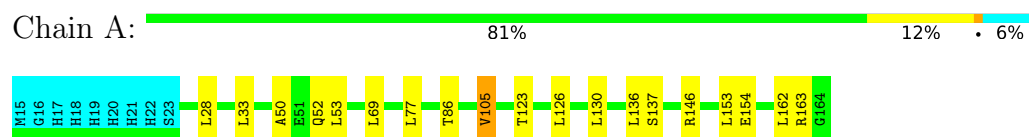
#### 4.2.10 Score per residue for model 10

- Molecule 1: Histidine kinase



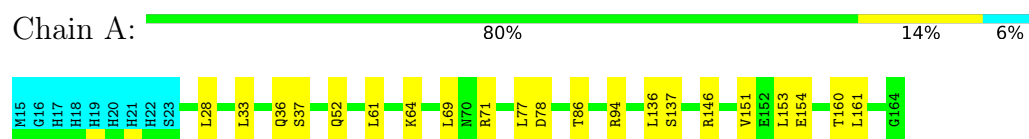
#### 4.2.11 Score per residue for model 11

- Molecule 1: Histidine kinase



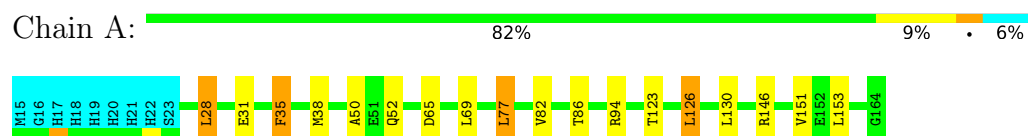
#### 4.2.12 Score per residue for model 12

- Molecule 1: Histidine kinase



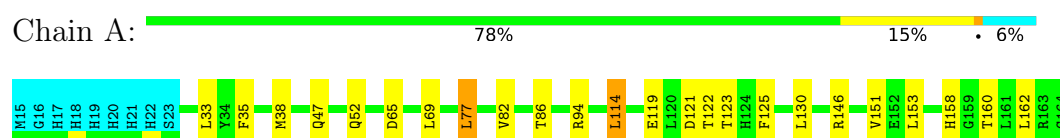
### 4.2.13 Score per residue for model 13

- Molecule 1: Histidine kinase



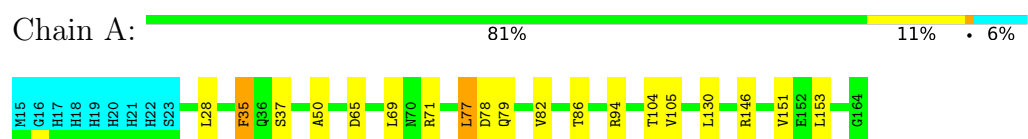
### 4.2.14 Score per residue for model 14

- Molecule 1: Histidine kinase



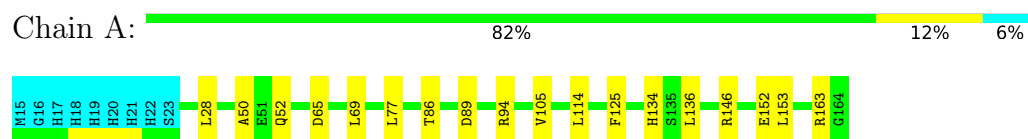
### 4.2.15 Score per residue for model 15

- Molecule 1: Histidine kinase



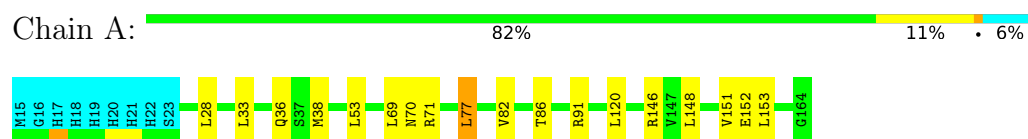
### 4.2.16 Score per residue for model 16

- Molecule 1: Histidine kinase




### 4.2.17 Score per residue for model 17

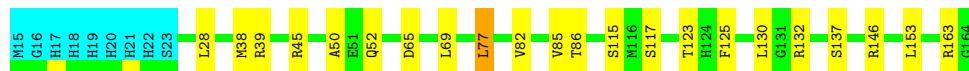
- Molecule 1: Histidine kinase



### 4.2.18 Score per residue for model 18


- Molecule 1: Histidine kinase

Chain A:  79% 14% 6%



### 4.2.19 Score per residue for model 19


- Molecule 1: Histidine kinase

Chain A:  75% 19% 6%



### 4.2.20 Score per residue for model 20

- Molecule 1: Histidine kinase

Chain A:  79% 15% 6%



## 5 Refinement protocol and experimental data overview

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

Of the 20 calculated structures, 20 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
CYANA	structure calculation	
Amber	refinement	

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

Chemical shift file(s)	working_cs.cif
Number of chemical shift lists	1
Total number of shifts	1684
Number of shifts mapped to atoms	1684
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	89%

## 6 Model quality [i](#)

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#Z>5	RMSZ	#Z>5
1	A	0.95±0.01	0±0/1090 ( 0.0± 0.0%)	1.40±0.02	1±1/1482 ( 0.1± 0.1%)
All	All	0.95	0/21800 ( 0.0%)	1.40	16/29640 ( 0.1%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	Chirality	Planarity
1	A	0.0±0.0	0.2±0.4
All	All	0	4

There are no bond-length outliers.

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

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	35	PHE	CA-CB-CG	5.38	119.18	113.80	13	2
1	A	117	SER	CA-C-N	5.26	127.64	120.54	18	1
1	A	117	SER	C-N-CA	5.26	127.64	120.54	18	1
1	A	89	ASP	CA-C-N	5.25	128.04	120.38	16	2
1	A	89	ASP	C-N-CA	5.25	128.04	120.38	16	2
1	A	79	GLN	OE1-CD-NE2	-5.12	117.48	122.60	15	1
1	A	99	GLY	CA-C-N	5.07	124.38	118.85	4	3
1	A	99	GLY	C-N-CA	5.07	124.38	118.85	4	3
1	A	124	HIS	CA-CB-CG	5.02	118.82	113.80	19	1

There are no chirality outliers.

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

Mol	Chain	Res	Type	Group	Models (Total)
1	A	94	ARG	Sidechain	2
1	A	163	ARG	Sidechain	1
1	A	45	ARG	Sidechain	1

## 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	1072	1062	1062	1±1
All	All	21440	21240	21240	16

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:130:LEU:HD13	1:A:150:TRP:CZ2	0.48	2.42	6	2
1:A:77:LEU:HA	1:A:82:VAL:HG21	0.45	1.87	7	10
1:A:84:ALA:HB1	1:A:102:MET:SD	0.43	2.53	1	1
1:A:85:VAL:HG12	1:A:98:ALA:HB3	0.41	1.93	19	2
1:A:114:LEU:C	1:A:114:LEU:HD22	0.40	2.41	14	1

## 6.3 Torsion angles [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	140/150 (93%)	114±3 (81±2%)	23±3 (16±2%)	4±1 (2±1%)	6	43
All	All	2800/3000 (93%)	2275 (81%)	455 (16%)	70 (2%)	6	43

All 22 unique Ramachandran outliers are listed below. They are sorted by the frequency of

occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	146	ARG	20
1	A	50	ALA	12
1	A	117	SER	4
1	A	126	LEU	4
1	A	105	VAL	3
1	A	158	HIS	3
1	A	125	PHE	3
1	A	137	SER	3
1	A	28	LEU	3
1	A	134	HIS	2
1	A	115	SER	2
1	A	26	VAL	1
1	A	27	ASP	1
1	A	51	GLU	1
1	A	111	ALA	1
1	A	163	ARG	1
1	A	136	LEU	1
1	A	161	LEU	1
1	A	119	GLU	1
1	A	132	ARG	1
1	A	29	GLY	1
1	A	160	THR	1

### 6.3.2 Protein sidechains ⓘ

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	113/121 (93%)	97±3 (85±2%)	16±3 (15±2%)	5	43
All	All	2260/2420 (93%)	1932 (85%)	328 (15%)	5	43

All 60 unique residues with a non-rotameric sidechain are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	69	LEU	20
1	A	77	LEU	20
1	A	86	THR	20

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Mol	Chain	Res	Type	Models (Total)
1	A	153	LEU	20
1	A	52	GLN	18
1	A	65	ASP	16
1	A	28	LEU	15
1	A	151	VAL	13
1	A	33	LEU	11
1	A	114	LEU	10
1	A	136	LEU	10
1	A	130	LEU	9
1	A	123	THR	7
1	A	126	LEU	7
1	A	61	LEU	6
1	A	71	ARG	6
1	A	152	GLU	6
1	A	94	ARG	6
1	A	160	THR	5
1	A	134	HIS	5
1	A	78	ASP	5
1	A	38	MET	5
1	A	105	VAL	4
1	A	161	LEU	4
1	A	125	PHE	4
1	A	53	LEU	4
1	A	35	PHE	4
1	A	121	ASP	4
1	A	36	GLN	4
1	A	102	MET	3
1	A	145	GLU	3
1	A	92	GLN	3
1	A	116	MET	3
1	A	148	LEU	3
1	A	120	LEU	3
1	A	37	SER	3
1	A	163	ARG	3
1	A	91	ARG	3
1	A	70	ASN	2
1	A	101	SER	2
1	A	119	GLU	2
1	A	31	GLU	2
1	A	113	HIS	2
1	A	158	HIS	2
1	A	122	THR	2

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Mol	Chain	Res	Type	Models (Total)
1	A	64	LYS	2
1	A	39	ARG	2
1	A	154	GLU	2
1	A	162	LEU	2
1	A	26	VAL	1
1	A	143	ASP	1
1	A	30	THR	1
1	A	135	SER	1
1	A	27	ASP	1
1	A	137	SER	1
1	A	47	GLN	1
1	A	104	THR	1
1	A	85	VAL	1
1	A	51	GLU	1
1	A	157	HIS	1

### 6.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

### 6.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

### 6.6 Ligand geometry ⓘ

There are no ligands in this entry.

### 6.7 Other polymers ⓘ

There are no such molecules in this entry.

### 6.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

## 7 Chemical shift validation

The completeness of assignment taking into account all chemical shift lists is 89% for the well-defined parts and 84% for the entire structure.

### 7.1 Chemical shift list 1

File name: working\_cs.cif

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

#### 7.1.1 Bookkeeping

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	1684
Number of shifts mapped to atoms	1684
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	0

#### 7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction $\pm$ precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	139	$-0.22 \pm 0.16$	None needed ( $< 0.5$ ppm)
$^{13}\text{C}_\beta$	127	$0.18 \pm 0.12$	None needed ( $< 0.5$ ppm)
$^{13}\text{C}'$	135	$-0.19 \pm 0.17$	None needed ( $< 0.5$ ppm)
$^{15}\text{N}$	131	$0.23 \pm 0.19$	None needed ( $< 0.5$ ppm)

#### 7.1.3 Completeness of resonance assignments

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 89%, i.e. 1669 atoms were assigned a chemical shift out of a possible 1880. 0 out of 31 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	$^1\text{H}$	$^{13}\text{C}$	$^{15}\text{N}$
Backbone	683/703 (97%)	283/286 (99%)	271/282 (96%)	129/135 (96%)
Sidechain	942/1077 (87%)	654/707 (93%)	272/330 (82%)	16/40 (40%)

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	Total	<sup>1</sup> H	<sup>13</sup> C	<sup>15</sup> N
Aromatic	44/100 (44%)	23/53 (43%)	20/39 (51%)	1/8 (12%)
Overall	1669/1880 (89%)	960/1046 (92%)	563/651 (86%)	146/183 (80%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 84%, i.e. 1682 atoms were assigned a chemical shift out of a possible 1999. 0 out of 31 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	<sup>1</sup> H	<sup>13</sup> C	<sup>15</sup> N
Backbone	693/749 (93%)	288/305 (94%)	274/300 (91%)	131/144 (91%)
Sidechain	945/1108 (85%)	656/728 (90%)	273/340 (80%)	16/40 (40%)
Aromatic	44/142 (31%)	23/77 (30%)	20/51 (39%)	1/14 (7%)
Overall	1682/1999 (84%)	967/1110 (87%)	567/691 (82%)	148/198 (75%)

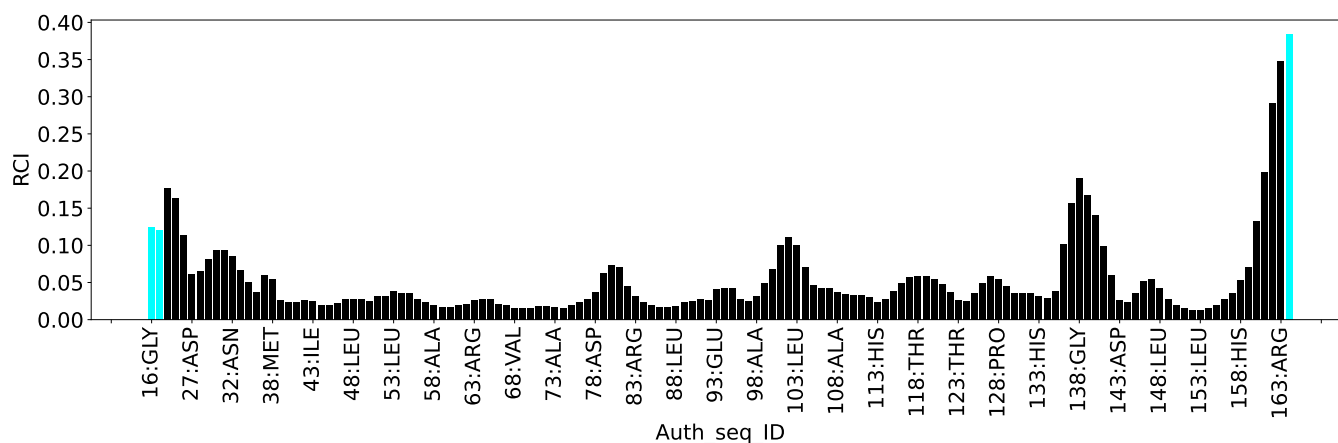
#### 7.1.4 Statistically unusual chemical shifts [i](#)

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	1208
Intra-residue ( $ i-j =0$ )	239
Sequential ( $ i-j =1$ )	319
Medium range ( $ i-j >1$ and $ i-j <5$ )	255
Long range ( $ i-j \geq 5$ )	395
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	8.1
Number of long range restraints per residue <sup>1</sup>	2.6

<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)	54.3	0.2
0.2-0.5 (Medium)	91.6	0.5
>0.5 (Large)	39.2	2.36

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

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

## 9 Distance violation analysis ⓘ

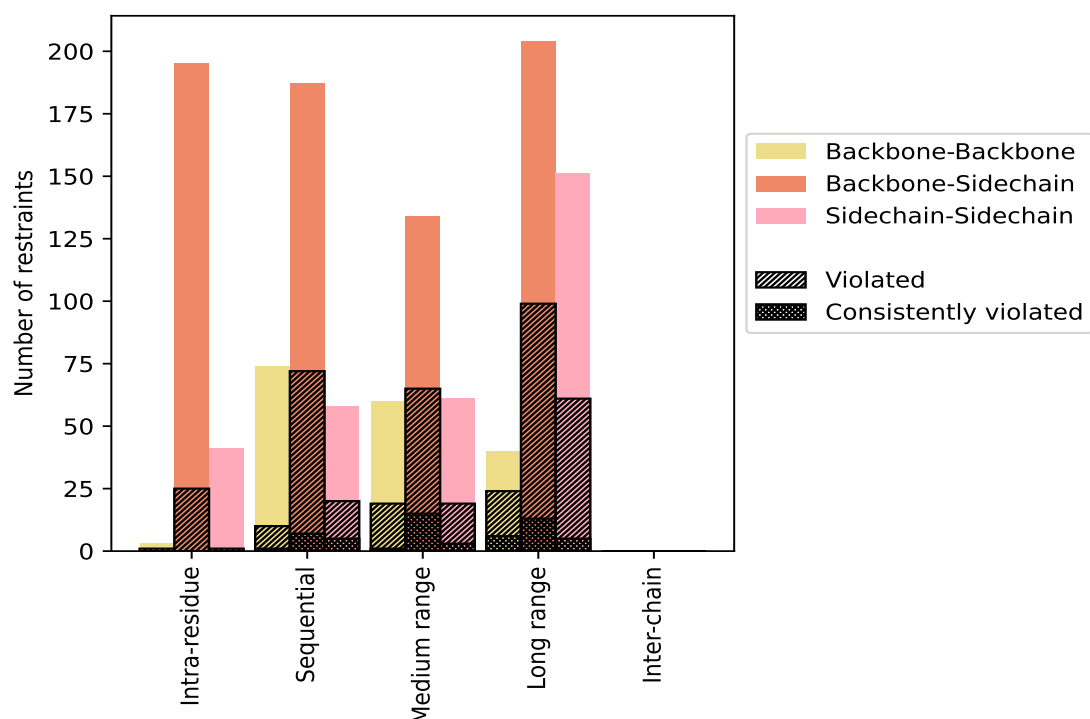
### 9.1 Summary of distance violations ⓘ

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.

Restraints 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>239</b>	<b>19.8</b>	<b>27</b>	<b>11.3</b>	<b>2.2</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>
Backbone-Backbone	3	0.2	1	33.3	0.1	0	0.0	0.0
Backbone-Sidechain	195	16.1	25	12.8	2.1	0	0.0	0.0
Sidechain-Sidechain	41	3.4	1	2.4	0.1	0	0.0	0.0
<b>Sequential (<math> i-j =1</math>)</b>	<b>319</b>	<b>26.4</b>	<b>102</b>	<b>32.0</b>	<b>8.4</b>	<b>13</b>	<b>4.1</b>	<b>1.1</b>
Backbone-Backbone	74	6.1	10	13.5	0.8	1	1.4	0.1
Backbone-Sidechain	187	15.5	72	38.5	6.0	7	3.7	0.6
Sidechain-Sidechain	58	4.8	20	34.5	1.7	5	8.6	0.4
<b>Medium range (<math> i-j &gt;1</math> &amp; <math> i-j &lt;5</math>)</b>	<b>255</b>	<b>21.1</b>	<b>103</b>	<b>40.4</b>	<b>8.5</b>	<b>19</b>	<b>7.5</b>	<b>1.6</b>
Backbone-Backbone	60	5.0	19	31.7	1.6	1	1.7	0.1
Backbone-Sidechain	134	11.1	65	48.5	5.4	15	11.2	1.2
Sidechain-Sidechain	61	5.0	19	31.1	1.6	3	4.9	0.2
<b>Long range (<math> i-j \geq 5</math>)</b>	<b>395</b>	<b>32.7</b>	<b>184</b>	<b>46.6</b>	<b>15.2</b>	<b>24</b>	<b>6.1</b>	<b>2.0</b>
Backbone-Backbone	40	3.3	24	60.0	2.0	6	15.0	0.5
Backbone-Sidechain	204	16.9	99	48.5	8.2	13	6.4	1.1
Sidechain-Sidechain	151	12.5	61	40.4	5.0	5	3.3	0.4
<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>1208</b>	<b>100.0</b>	<b>416</b>	<b>34.4</b>	<b>34.4</b>	<b>56</b>	<b>4.6</b>	<b>4.6</b>
Backbone-Backbone	177	14.7	54	30.5	4.5	8	4.5	0.7
Backbone-Sidechain	720	59.6	261	36.2	21.6	35	4.9	2.9
Sidechain-Sidechain	311	25.7	101	32.5	8.4	13	4.2	1.1

<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 disulfied 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	8	44	57	71	0	180	0.32	1.35	0.22	0.26
2	4	43	42	75	0	164	0.32	1.36	0.22	0.26
3	5	52	54	88	0	199	0.37	1.33	0.27	0.29
4	5	44	51	87	0	187	0.33	1.41	0.23	0.25
5	8	47	52	90	0	197	0.36	1.45	0.25	0.28
6	4	44	50	86	0	184	0.38	1.86	0.29	0.29
7	7	46	50	83	0	186	0.36	1.29	0.24	0.29
8	5	39	54	88	0	186	0.38	1.25	0.23	0.33
9	5	46	52	89	0	192	0.38	1.53	0.29	0.3
10	8	45	52	78	0	183	0.37	1.91	0.25	0.29

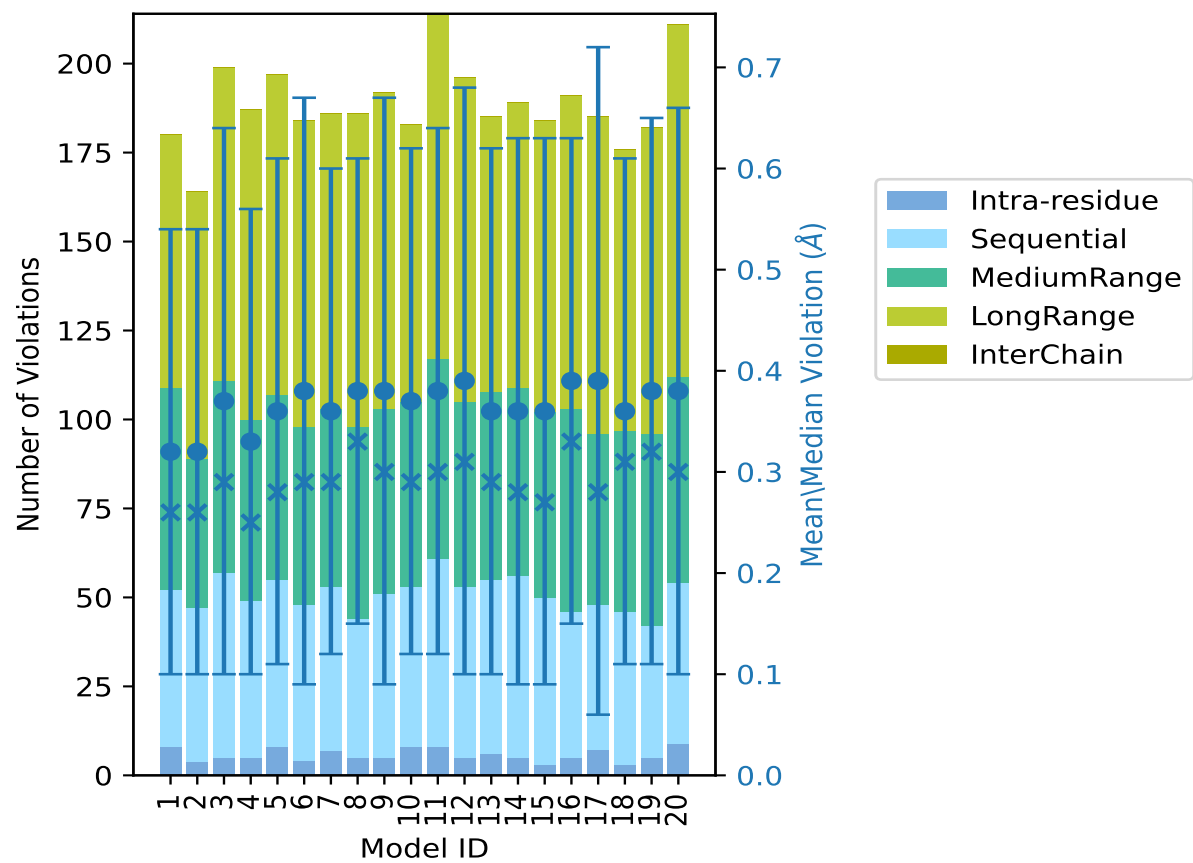
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Model ID	Number of violations						Mean (Å)	Max (Å)	SD <sup>6</sup> (Å)	Median (Å)
	IR <sup>1</sup>	SQ <sup>2</sup>	MR <sup>3</sup>	LR <sup>4</sup>	IC <sup>5</sup>	Total				
11	8	53	56	97	0	214	0.38	1.42	0.26	0.3
12	5	48	52	91	0	196	0.39	2.36	0.29	0.31
13	6	49	53	77	0	185	0.36	1.86	0.26	0.29
14	5	51	53	80	0	189	0.36	1.76	0.27	0.28
15	3	47	52	82	0	184	0.36	1.58	0.27	0.27
16	5	41	57	88	0	191	0.39	1.28	0.24	0.33
17	7	41	48	89	0	185	0.39	2.05	0.33	0.28
18	3	43	51	79	0	176	0.36	1.66	0.25	0.31
19	5	37	54	86	0	182	0.38	1.85	0.27	0.32
20	9	45	58	99	0	211	0.38	1.96	0.28	0.3

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

9.2.1 Bar graph : Distance Violation statistics for each model ⓘ



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

### 9.3 Distance violation statistics for the ensemble

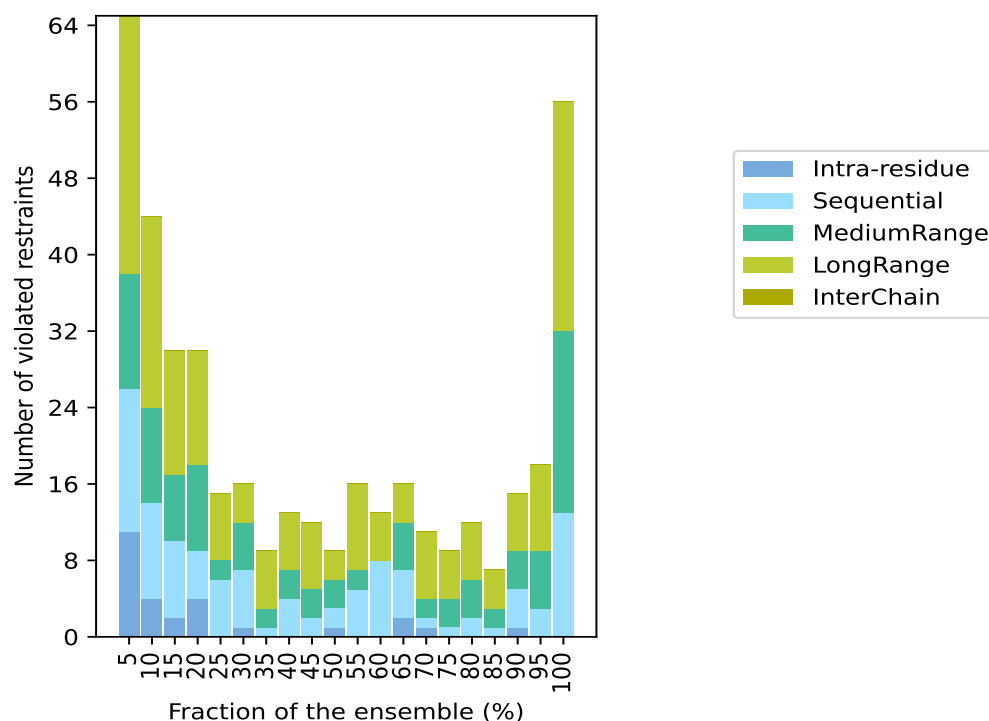
Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 792(IR:212, SQ:217, MR:152, LR:211, IC:0) restraints are 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>	%
11	15	12	27	0	65	1	5.0
4	10	10	20	0	44	2	10.0
2	8	7	13	0	30	3	15.0
4	5	9	12	0	30	4	20.0
0	6	2	7	0	15	5	25.0
1	6	5	4	0	16	6	30.0
0	1	2	6	0	9	7	35.0
0	4	3	6	0	13	8	40.0
0	2	3	7	0	12	9	45.0
1	2	3	3	0	9	10	50.0
0	5	2	9	0	16	11	55.0
0	8	0	5	0	13	12	60.0
2	5	5	4	0	16	13	65.0
1	1	2	7	0	11	14	70.0
0	1	3	5	0	9	15	75.0
0	2	4	6	0	12	16	80.0
0	1	2	4	0	7	17	85.0
1	4	4	6	0	15	18	90.0
0	3	6	9	0	18	19	95.0
0	13	19	24	0	56	20	100.0

<sup>1</sup>Intra-residue restraints, <sup>2</sup>Sequential restraints, <sup>3</sup>Medium range restraints, <sup>4</sup>Long range restraints,

<sup>5</sup>Inter-chain restraints, <sup>6</sup> Number of models with violations

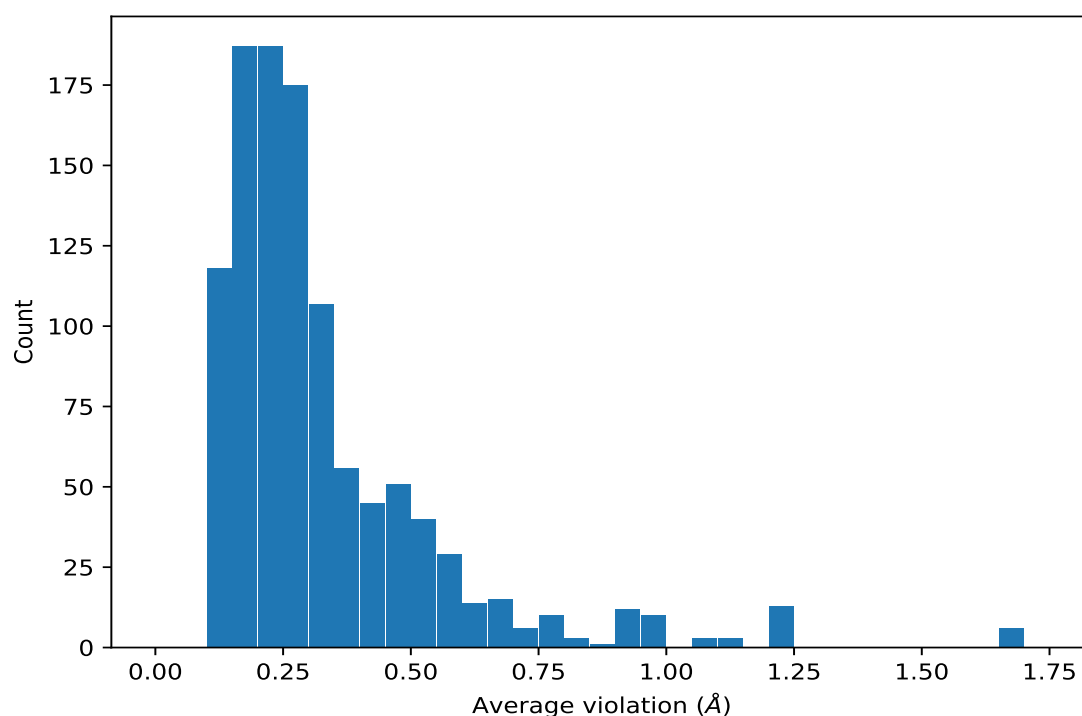
### 9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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

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

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



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

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

Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,773)	1:87:A:PHE:HZ	1:98:A:ALA:H	20	1.21	0.24	1.32
(1,1118)	1:77:A:LEU:HD11	1:87:A:PHE:HE1	20	1.21	0.35	1.32
(1,1118)	1:77:A:LEU:HD11	1:87:A:PHE:HE2	20	1.21	0.35	1.32
(1,1118)	1:77:A:LEU:HD12	1:87:A:PHE:HE1	20	1.21	0.35	1.32
(1,1118)	1:77:A:LEU:HD12	1:87:A:PHE:HE2	20	1.21	0.35	1.32
(1,1118)	1:77:A:LEU:HD13	1:87:A:PHE:HE1	20	1.21	0.35	1.32
(1,1118)	1:77:A:LEU:HD13	1:87:A:PHE:HE2	20	1.21	0.35	1.32
(1,1118)	1:77:A:LEU:HD21	1:87:A:PHE:HE1	20	1.21	0.35	1.32
(1,1118)	1:77:A:LEU:HD21	1:87:A:PHE:HE2	20	1.21	0.35	1.32
(1,1118)	1:77:A:LEU:HD22	1:87:A:PHE:HE1	20	1.21	0.35	1.32
(1,1118)	1:77:A:LEU:HD22	1:87:A:PHE:HE2	20	1.21	0.35	1.32
(1,1118)	1:77:A:LEU:HD23	1:87:A:PHE:HE1	20	1.21	0.35	1.32
(1,1118)	1:77:A:LEU:HD23	1:87:A:PHE:HE2	20	1.21	0.35	1.32
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD11	20	1.11	0.21	1.12
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD12	20	1.11	0.21	1.12
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD13	20	1.11	0.21	1.12

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,62)	1:69:A:LEU:H	1:71:A:ARG:HD2	20	0.94	0.12	0.94
(1,62)	1:69:A:LEU:H	1:71:A:ARG:HD3	20	0.94	0.12	0.94
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB1	20	0.91	0.11	0.92
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB2	20	0.91	0.11	0.92
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB3	20	0.91	0.11	0.92
(1,952)	1:89:A:ASP:HA	1:95:A:LEU:HG	20	0.87	0.31	0.84
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG21	20	0.77	0.1	0.79
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG22	20	0.77	0.1	0.79
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG23	20	0.77	0.1	0.79
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG21	20	0.77	0.1	0.79
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG22	20	0.77	0.1	0.79
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG23	20	0.77	0.1	0.79
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG21	20	0.77	0.1	0.79
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG22	20	0.77	0.1	0.79
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG23	20	0.77	0.1	0.79
(1,155)	1:92:A:GLN:H	1:149:A:GLY:H	20	0.76	0.12	0.77
(1,478)	1:55:A:PRO:HB2	1:58:A:ALA:HA	20	0.72	0.11	0.72
(1,478)	1:55:A:PRO:HB3	1:58:A:ALA:HA	20	0.72	0.11	0.72
(1,27)	1:91:A:ARG:H	1:149:A:GLY:H	20	0.66	0.17	0.66
(1,111)	1:88:A:LEU:HA	1:150:A:TRP:HZ2	20	0.66	0.18	0.68
(1,276)	1:43:A:ILE:HG21	1:47:A:GLN:HA	20	0.63	0.07	0.64
(1,276)	1:43:A:ILE:HG22	1:47:A:GLN:HA	20	0.63	0.07	0.64
(1,276)	1:43:A:ILE:HG23	1:47:A:GLN:HA	20	0.63	0.07	0.64
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD11	20	0.63	0.13	0.63
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD12	20	0.63	0.13	0.63
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD13	20	0.63	0.13	0.63
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD11	20	0.63	0.13	0.63
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD12	20	0.63	0.13	0.63
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD13	20	0.63	0.13	0.63
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB1	20	0.63	0.12	0.62
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB2	20	0.63	0.12	0.62
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB3	20	0.63	0.12	0.62
(1,119)	1:87:A:PHE:HD1	1:98:A:ALA:H	20	0.57	0.16	0.62
(1,119)	1:87:A:PHE:HD2	1:98:A:ALA:H	20	0.57	0.16	0.62
(1,40)	1:74:A:ASN:HA	1:98:A:ALA:HA	20	0.56	0.2	0.52
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG21	20	0.53	0.21	0.52
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG22	20	0.53	0.21	0.52
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG23	20	0.53	0.21	0.52
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG21	20	0.53	0.21	0.52
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG22	20	0.53	0.21	0.52
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG23	20	0.53	0.21	0.52
(1,226)	1:65:A:ASP:H	1:66:A:THR:HA	20	0.51	0.05	0.51

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,495)	1:93:A:GLU:HG2	1:124:A:HIS:HA	20	0.51	0.17	0.5
(1,495)	1:93:A:GLU:HG3	1:124:A:HIS:HA	20	0.51	0.17	0.5
(1,379)	1:73:A:ALA:H	1:75:A:GLU:HG2	20	0.5	0.12	0.46
(1,379)	1:73:A:ALA:H	1:75:A:GLU:HG3	20	0.5	0.12	0.46
(1,166)	1:40:A:ALA:H	1:41:A:GLN:HG3	20	0.49	0.09	0.5
(1,141)	1:97:A:HIS:HB3	1:103:A:LEU:H	20	0.49	0.13	0.47
(1,805)	1:41:A:GLN:HE21	1:42:A:LEU:HG	20	0.49	0.14	0.48
(1,959)	1:79:A:GLN:HB2	1:111:A:ALA:HA	20	0.48	0.18	0.46
(1,104)	1:70:A:ASN:HD22	1:71:A:ARG:HD2	20	0.47	0.2	0.42
(1,104)	1:70:A:ASN:HD22	1:71:A:ARG:HD3	20	0.47	0.2	0.42
(1,1018)	1:70:A:ASN:HD22	1:71:A:ARG:HA	20	0.46	0.14	0.51
(1,425)	1:42:A:LEU:HA	1:56:A:LEU:HG	20	0.45	0.15	0.44
(1,247)	1:74:A:ASN:H	1:75:A:GLU:HG2	20	0.44	0.17	0.43
(1,247)	1:74:A:ASN:H	1:75:A:GLU:HG3	20	0.44	0.17	0.43
(1,1058)	1:89:A:ASP:H	1:149:A:GLY:HA2	20	0.44	0.13	0.44
(1,377)	1:66:A:THR:HG21	1:70:A:ASN:HB3	20	0.44	0.12	0.42
(1,377)	1:66:A:THR:HG22	1:70:A:ASN:HB3	20	0.44	0.12	0.42
(1,377)	1:66:A:THR:HG23	1:70:A:ASN:HB3	20	0.44	0.12	0.42
(1,110)	1:71:A:ARG:HD2	1:72:A:ILE:H	20	0.43	0.07	0.42
(1,110)	1:71:A:ARG:HD3	1:72:A:ILE:H	20	0.43	0.07	0.42
(1,121)	1:41:A:GLN:HE21	1:42:A:LEU:HB2	20	0.42	0.09	0.42
(1,311)	1:98:A:ALA:H	1:152:A:GLU:HB2	20	0.42	0.15	0.4
(1,311)	1:98:A:ALA:H	1:152:A:GLU:HB3	20	0.42	0.15	0.4
(1,83)	1:61:A:LEU:H	1:65:A:ASP:HB2	20	0.39	0.1	0.38
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB1	20	0.38	0.04	0.38
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB2	20	0.38	0.04	0.38
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB3	20	0.38	0.04	0.38
(1,455)	1:61:A:LEU:HD21	1:63:A:ARG:H	20	0.38	0.09	0.38
(1,455)	1:61:A:LEU:HD22	1:63:A:ARG:H	20	0.38	0.09	0.38
(1,455)	1:61:A:LEU:HD23	1:63:A:ARG:H	20	0.38	0.09	0.38
(1,357)	1:61:A:LEU:HD11	1:64:A:LYS:H	20	0.37	0.08	0.38
(1,357)	1:61:A:LEU:HD12	1:64:A:LYS:H	20	0.37	0.08	0.38
(1,357)	1:61:A:LEU:HD13	1:64:A:LYS:H	20	0.37	0.08	0.38
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB1	20	0.36	0.15	0.36
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB2	20	0.36	0.15	0.36
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB3	20	0.36	0.15	0.36
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB1	20	0.36	0.15	0.36
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB2	20	0.36	0.15	0.36
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB3	20	0.36	0.15	0.36
(1,19)	1:87:A:PHE:HA	1:96:A:ALA:H	20	0.35	0.04	0.34
(1,442)	1:141:A:GLU:HB2	1:145:A:GLU:H	20	0.35	0.16	0.34
(1,442)	1:141:A:GLU:HB3	1:145:A:GLU:H	20	0.35	0.16	0.34

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG21	20	0.35	0.09	0.36
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG22	20	0.35	0.09	0.36
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG23	20	0.35	0.09	0.36
(1,24)	1:69:A:LEU:HB2	1:70:A:ASN:HB3	20	0.34	0.07	0.35
(1,24)	1:69:A:LEU:HB3	1:70:A:ASN:HB3	20	0.34	0.07	0.35
(1,998)	1:61:A:LEU:HA	1:65:A:ASP:H	20	0.34	0.1	0.34
(1,612)	1:41:A:GLN:HB2	1:42:A:LEU:H	20	0.34	0.02	0.34
(1,612)	1:41:A:GLN:HB3	1:42:A:LEU:H	20	0.34	0.02	0.34
(1,7)	1:97:A:HIS:HA	1:150:A:TRP:HZ3	20	0.33	0.1	0.34
(1,811)	1:74:A:ASN:H	1:77:A:LEU:HB2	20	0.32	0.07	0.3
(1,811)	1:74:A:ASN:H	1:77:A:LEU:HB3	20	0.32	0.07	0.3
(1,47)	1:70:A:ASN:H	1:71:A:ARG:HE	20	0.31	0.11	0.29
(1,48)	1:65:A:ASP:HB3	1:68:A:VAL:HA	20	0.31	0.1	0.31
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG11	20	0.3	0.06	0.31
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG12	20	0.3	0.06	0.31
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG13	20	0.3	0.06	0.31
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG21	20	0.3	0.06	0.31
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG22	20	0.3	0.06	0.31
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG23	20	0.3	0.06	0.31
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG11	20	0.3	0.05	0.3
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG12	20	0.3	0.05	0.3
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG13	20	0.3	0.05	0.3
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG21	20	0.3	0.05	0.3
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG22	20	0.3	0.05	0.3
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG23	20	0.3	0.05	0.3
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG11	20	0.3	0.05	0.3
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG12	20	0.3	0.05	0.3
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG13	20	0.3	0.05	0.3
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG21	20	0.3	0.05	0.3
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG22	20	0.3	0.05	0.3
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG23	20	0.3	0.05	0.3
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG11	20	0.3	0.05	0.3
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG12	20	0.3	0.05	0.3
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG13	20	0.3	0.05	0.3
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG21	20	0.3	0.05	0.3
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG22	20	0.3	0.05	0.3
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG23	20	0.3	0.05	0.3
(1,232)	1:71:A:ARG:HB2	1:73:A:ALA:H	20	0.3	0.02	0.3
(1,232)	1:71:A:ARG:HB3	1:73:A:ALA:H	20	0.3	0.02	0.3
(1,968)	1:73:A:ALA:HB1	1:75:A:GLU:HB2	20	0.28	0.06	0.29
(1,968)	1:73:A:ALA:HB1	1:75:A:GLU:HB3	20	0.28	0.06	0.29
(1,968)	1:73:A:ALA:HB2	1:75:A:GLU:HB2	20	0.28	0.06	0.29

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,968)	1:73:A:ALA:HB2	1:75:A:GLU:HB3	20	0.28	0.06	0.29
(1,968)	1:73:A:ALA:HB3	1:75:A:GLU:HB2	20	0.28	0.06	0.29
(1,968)	1:73:A:ALA:HB3	1:75:A:GLU:HB3	20	0.28	0.06	0.29
(1,548)	1:67:A:ALA:HB1	1:68:A:VAL:HA	20	0.26	0.04	0.26
(1,548)	1:67:A:ALA:HB2	1:68:A:VAL:HA	20	0.26	0.04	0.26
(1,548)	1:67:A:ALA:HB3	1:68:A:VAL:HA	20	0.26	0.04	0.26
(1,53)	1:87:A:PHE:HA	1:150:A:TRP:HA	20	0.25	0.07	0.24
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB1	20	0.25	0.05	0.24
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB2	20	0.25	0.05	0.24
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB3	20	0.25	0.05	0.24
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB1	20	0.25	0.05	0.24
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB2	20	0.25	0.05	0.24
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB3	20	0.25	0.05	0.24
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB1	20	0.25	0.05	0.24
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB2	20	0.25	0.05	0.24
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB3	20	0.25	0.05	0.24
(1,861)	1:59:A:THR:HG21	1:62:A:ALA:H	20	0.23	0.03	0.24
(1,861)	1:59:A:THR:HG22	1:62:A:ALA:H	20	0.23	0.03	0.24
(1,861)	1:59:A:THR:HG23	1:62:A:ALA:H	20	0.23	0.03	0.24
(1,212)	1:47:A:GLN:H	1:51:A:GLU:H	19	0.68	0.28	0.76
(1,614)	1:49:A:ILE:HG21	1:55:A:PRO:HG2	19	0.48	0.18	0.45
(1,614)	1:49:A:ILE:HG21	1:55:A:PRO:HG3	19	0.48	0.18	0.45
(1,614)	1:49:A:ILE:HG22	1:55:A:PRO:HG2	19	0.48	0.18	0.45
(1,614)	1:49:A:ILE:HG22	1:55:A:PRO:HG3	19	0.48	0.18	0.45
(1,614)	1:49:A:ILE:HG23	1:55:A:PRO:HG2	19	0.48	0.18	0.45
(1,614)	1:49:A:ILE:HG23	1:55:A:PRO:HG3	19	0.48	0.18	0.45
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG21	19	0.46	0.23	0.38
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG22	19	0.46	0.23	0.38
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG23	19	0.46	0.23	0.38
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG21	19	0.46	0.23	0.38
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG22	19	0.46	0.23	0.38
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG23	19	0.46	0.23	0.38
(1,742)	1:88:A:LEU:HB2	1:93:A:GLU:HG2	19	0.35	0.16	0.33
(1,742)	1:88:A:LEU:HB2	1:93:A:GLU:HG3	19	0.35	0.16	0.33
(1,742)	1:88:A:LEU:HB3	1:93:A:GLU:HG2	19	0.35	0.16	0.33
(1,742)	1:88:A:LEU:HB3	1:93:A:GLU:HG3	19	0.35	0.16	0.33
(1,234)	1:66:A:THR:HB	1:87:A:PHE:HB2	19	0.35	0.16	0.31
(1,521)	1:98:A:ALA:HA	1:103:A:LEU:H	19	0.32	0.11	0.31
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG21	19	0.31	0.13	0.31
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG22	19	0.31	0.13	0.31
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG23	19	0.31	0.13	0.31
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG21	19	0.3	0.13	0.27

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG22	19	0.3	0.13	0.27
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG23	19	0.3	0.13	0.27
(1,461)	1:43:A:ILE:HD11	1:47:A:GLN:H	19	0.3	0.08	0.3
(1,461)	1:43:A:ILE:HD12	1:47:A:GLN:H	19	0.3	0.08	0.3
(1,461)	1:43:A:ILE:HD13	1:47:A:GLN:H	19	0.3	0.08	0.3
(1,322)	1:60:A:ALA:H	1:65:A:ASP:HB2	19	0.29	0.13	0.27
(1,500)	1:43:A:ILE:HG21	1:47:A:GLN:H	19	0.27	0.06	0.28
(1,500)	1:43:A:ILE:HG22	1:47:A:GLN:H	19	0.27	0.06	0.28
(1,500)	1:43:A:ILE:HG23	1:47:A:GLN:H	19	0.27	0.06	0.28
(1,335)	1:76:A:ALA:HB1	1:78:A:ASP:H	19	0.27	0.08	0.25
(1,335)	1:76:A:ALA:HB2	1:78:A:ASP:H	19	0.27	0.08	0.25
(1,335)	1:76:A:ALA:HB3	1:78:A:ASP:H	19	0.27	0.08	0.25
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD21	19	0.25	0.13	0.21
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD22	19	0.25	0.13	0.21
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD23	19	0.25	0.13	0.21
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD21	19	0.25	0.13	0.21
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD22	19	0.25	0.13	0.21
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD23	19	0.25	0.13	0.21
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD21	19	0.25	0.13	0.21
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD22	19	0.25	0.13	0.21
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD23	19	0.25	0.13	0.21
(1,657)	1:59:A:THR:HA	1:62:A:ALA:H	19	0.22	0.06	0.23
(1,316)	1:41:A:GLN:HE21	1:42:A:LEU:H	19	0.21	0.05	0.21
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG21	19	0.21	0.07	0.21
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG22	19	0.21	0.07	0.21
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG23	19	0.21	0.07	0.21
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG21	19	0.21	0.07	0.21
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG22	19	0.21	0.07	0.21
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG23	19	0.21	0.07	0.21
(1,830)	1:56:A:LEU:H	1:57:A:ALA:HA	19	0.19	0.04	0.19
(1,1022)	1:71:A:ARG:HB2	1:72:A:ILE:HA	19	0.16	0.03	0.16
(1,1022)	1:71:A:ARG:HB3	1:72:A:ILE:HA	19	0.16	0.03	0.16
(1,1119)	1:77:A:LEU:HD11	1:87:A:PHE:HZ	18	0.97	0.07	0.96
(1,1119)	1:77:A:LEU:HD12	1:87:A:PHE:HZ	18	0.97	0.07	0.96
(1,1119)	1:77:A:LEU:HD13	1:87:A:PHE:HZ	18	0.97	0.07	0.96
(1,1119)	1:77:A:LEU:HD21	1:87:A:PHE:HZ	18	0.97	0.07	0.96
(1,1119)	1:77:A:LEU:HD22	1:87:A:PHE:HZ	18	0.97	0.07	0.96
(1,1119)	1:77:A:LEU:HD23	1:87:A:PHE:HZ	18	0.97	0.07	0.96
(1,125)	1:94:A:ARG:HH21	1:104:A:THR:HB	18	0.52	0.37	0.41
(1,125)	1:94:A:ARG:HH22	1:104:A:THR:HB	18	0.52	0.37	0.41
(1,129)	1:70:A:ASN:HB2	1:71:A:ARG:HE	18	0.44	0.18	0.46
(1,592)	1:57:A:ALA:HA	1:158:A:HIS:HD2	18	0.41	0.16	0.44

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD11	18	0.38	0.04	0.4
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD12	18	0.38	0.04	0.4
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD13	18	0.38	0.04	0.4
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD21	18	0.38	0.04	0.4
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD22	18	0.38	0.04	0.4
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD23	18	0.38	0.04	0.4
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD21	18	0.33	0.18	0.29
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD22	18	0.33	0.18	0.29
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD23	18	0.33	0.18	0.29
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD21	18	0.33	0.18	0.29
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD22	18	0.33	0.18	0.29
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD23	18	0.33	0.18	0.29
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD21	18	0.33	0.18	0.29
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD22	18	0.33	0.18	0.29
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD23	18	0.33	0.18	0.29
(1,251)	1:88:A:LEU:HG	1:150:A:TRP:H	18	0.32	0.09	0.32
(1,394)	1:39:A:ARG:HA	1:41:A:GLN:HG3	18	0.3	0.12	0.26
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD11	18	0.27	0.06	0.28
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD12	18	0.27	0.06	0.28
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD13	18	0.27	0.06	0.28
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD21	18	0.27	0.06	0.28
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD22	18	0.27	0.06	0.28
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD23	18	0.27	0.06	0.28
(1,248)	1:61:A:LEU:HD21	1:64:A:LYS:H	18	0.24	0.07	0.22
(1,248)	1:61:A:LEU:HD22	1:64:A:LYS:H	18	0.24	0.07	0.22
(1,248)	1:61:A:LEU:HD23	1:64:A:LYS:H	18	0.24	0.07	0.22
(1,147)	1:64:A:LYS:HD2	1:65:A:ASP:H	18	0.23	0.04	0.24
(1,147)	1:64:A:LYS:HD3	1:65:A:ASP:H	18	0.23	0.04	0.24
(1,319)	1:66:A:THR:HG21	1:71:A:ARG:H	18	0.21	0.06	0.2
(1,319)	1:66:A:THR:HG22	1:71:A:ARG:H	18	0.21	0.06	0.2
(1,319)	1:66:A:THR:HG23	1:71:A:ARG:H	18	0.21	0.06	0.2
(1,967)	1:74:A:ASN:HA	1:74:A:ASN:HD22	18	0.21	0.05	0.22
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG21	18	0.21	0.05	0.2
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG22	18	0.21	0.05	0.2
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG23	18	0.21	0.05	0.2
(1,856)	1:73:A:ALA:H	1:77:A:LEU:HB2	18	0.15	0.02	0.15
(1,856)	1:73:A:ALA:H	1:77:A:LEU:HB3	18	0.15	0.02	0.15
(1,301)	1:88:A:LEU:HA	1:95:A:LEU:HB2	17	0.47	0.13	0.49
(1,301)	1:88:A:LEU:HA	1:95:A:LEU:HB3	17	0.47	0.13	0.49
(1,90)	1:87:A:PHE:HE1	1:98:A:ALA:H	17	0.46	0.1	0.49
(1,90)	1:87:A:PHE:HE2	1:98:A:ALA:H	17	0.46	0.1	0.49
(1,112)	1:88:A:LEU:HB2	1:150:A:TRP:HB3	17	0.3	0.09	0.31

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,112)	1:88:A:LEU:HB3	1:150:A:TRP:HB3	17	0.3	0.09	0.31
(1,70)	1:45:A:ARG:HD2	1:47:A:GLN:H	17	0.25	0.07	0.24
(1,70)	1:45:A:ARG:HD3	1:47:A:GLN:H	17	0.25	0.07	0.24
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG11	17	0.23	0.05	0.25
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG12	17	0.23	0.05	0.25
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG13	17	0.23	0.05	0.25
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG21	17	0.23	0.05	0.25
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG22	17	0.23	0.05	0.25
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG23	17	0.23	0.05	0.25
(1,51)	1:90:A:ALA:H	1:91:A:ARG:HA	17	0.21	0.05	0.22
(1,1120)	1:77:A:LEU:HD11	1:98:A:ALA:H	17	0.18	0.08	0.16
(1,1120)	1:77:A:LEU:HD12	1:98:A:ALA:H	17	0.18	0.08	0.16
(1,1120)	1:77:A:LEU:HD13	1:98:A:ALA:H	17	0.18	0.08	0.16
(1,1120)	1:77:A:LEU:HD21	1:98:A:ALA:H	17	0.18	0.08	0.16
(1,1120)	1:77:A:LEU:HD22	1:98:A:ALA:H	17	0.18	0.08	0.16
(1,1120)	1:77:A:LEU:HD23	1:98:A:ALA:H	17	0.18	0.08	0.16
(1,1003)	1:85:A:VAL:HG21	1:99:A:GLY:HA2	16	0.68	0.06	0.7
(1,1003)	1:85:A:VAL:HG21	1:99:A:GLY:HA3	16	0.68	0.06	0.7
(1,1003)	1:85:A:VAL:HG22	1:99:A:GLY:HA2	16	0.68	0.06	0.7
(1,1003)	1:85:A:VAL:HG22	1:99:A:GLY:HA3	16	0.68	0.06	0.7
(1,1003)	1:85:A:VAL:HG23	1:99:A:GLY:HA2	16	0.68	0.06	0.7
(1,1003)	1:85:A:VAL:HG23	1:99:A:GLY:HA3	16	0.68	0.06	0.7
(1,593)	1:79:A:GLN:HG3	1:111:A:ALA:HA	16	0.47	0.2	0.52
(1,208)	1:97:A:HIS:HB2	1:131:A:GLY:H	16	0.41	0.16	0.39
(1,822)	1:75:A:GLU:H	1:77:A:LEU:HB2	16	0.38	0.25	0.32
(1,822)	1:75:A:GLU:H	1:77:A:LEU:HB3	16	0.38	0.25	0.32
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG11	16	0.37	0.08	0.36
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG12	16	0.37	0.08	0.36
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG13	16	0.37	0.08	0.36
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG21	16	0.37	0.08	0.36
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG22	16	0.37	0.08	0.36
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG23	16	0.37	0.08	0.36
(1,270)	1:82:A:VAL:H	1:155:A:LEU:HB2	16	0.24	0.07	0.24
(1,270)	1:82:A:VAL:H	1:155:A:LEU:HB3	16	0.24	0.07	0.24
(1,793)	1:69:A:LEU:HD11	1:71:A:ARG:H	16	0.21	0.04	0.22
(1,793)	1:69:A:LEU:HD12	1:71:A:ARG:H	16	0.21	0.04	0.22
(1,793)	1:69:A:LEU:HD13	1:71:A:ARG:H	16	0.21	0.04	0.22
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB1	16	0.21	0.08	0.2
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB2	16	0.21	0.08	0.2
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB3	16	0.21	0.08	0.2
(1,635)	1:82:A:VAL:HB	1:83:A:ARG:HA	16	0.21	0.04	0.22
(1,987)	1:146:A:ARG:HG2	1:147:A:VAL:HA	16	0.21	0.07	0.21

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,987)	1:146:A:ARG:HG3	1:147:A:VAL:HA	16	0.21	0.07	0.21
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD11	16	0.18	0.06	0.17
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD12	16	0.18	0.06	0.17
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD13	16	0.18	0.06	0.17
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD21	16	0.18	0.06	0.17
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD22	16	0.18	0.06	0.17
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD23	16	0.18	0.06	0.17
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD11	16	0.18	0.06	0.17
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD12	16	0.18	0.06	0.17
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD13	16	0.18	0.06	0.17
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD21	16	0.18	0.06	0.17
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD22	16	0.18	0.06	0.17
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD23	16	0.18	0.06	0.17
(1,547)	1:61:A:LEU:HD21	1:64:A:LYS:HA	16	0.18	0.06	0.16
(1,547)	1:61:A:LEU:HD22	1:64:A:LYS:HA	16	0.18	0.06	0.16
(1,547)	1:61:A:LEU:HD23	1:64:A:LYS:HA	16	0.18	0.06	0.16
(1,60)	1:47:A:GLN:HE22	1:52:A:GLN:H	15	0.61	0.44	0.57
(1,531)	1:111:A:ALA:HB1	1:114:A:LEU:HB2	15	0.46	0.22	0.42
(1,531)	1:111:A:ALA:HB1	1:114:A:LEU:HB3	15	0.46	0.22	0.42
(1,531)	1:111:A:ALA:HB2	1:114:A:LEU:HB2	15	0.46	0.22	0.42
(1,531)	1:111:A:ALA:HB2	1:114:A:LEU:HB3	15	0.46	0.22	0.42
(1,531)	1:111:A:ALA:HB3	1:114:A:LEU:HB2	15	0.46	0.22	0.42
(1,531)	1:111:A:ALA:HB3	1:114:A:LEU:HB3	15	0.46	0.22	0.42
(1,102)	1:51:A:GLU:H	1:52:A:GLN:HE21	15	0.44	0.26	0.37
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG21	15	0.35	0.19	0.35
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG22	15	0.35	0.19	0.35
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG23	15	0.35	0.19	0.35
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG21	15	0.35	0.19	0.35
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG22	15	0.35	0.19	0.35
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG23	15	0.35	0.19	0.35
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG21	15	0.34	0.11	0.3
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG22	15	0.34	0.11	0.3
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG23	15	0.34	0.11	0.3
(1,115)	1:94:A:ARG:HA	1:124:A:HIS:H	15	0.3	0.17	0.19
(1,160)	1:97:A:HIS:HB3	1:150:A:TRP:HZ3	15	0.22	0.08	0.21
(1,134)	1:103:A:LEU:H	1:105:A:VAL:H	15	0.17	0.05	0.16
(1,785)	1:67:A:ALA:HA	1:69:A:LEU:H	15	0.16	0.04	0.16
(1,604)	1:47:A:GLN:HA	1:47:A:GLN:HE21	14	0.9	0.09	0.9
(1,17)	1:70:A:ASN:HD21	1:74:A:ASN:HB2	14	0.7	0.32	0.7
(1,278)	1:47:A:GLN:H	1:52:A:GLN:HE21	14	0.44	0.33	0.34
(1,154)	1:79:A:GLN:HE21	1:111:A:ALA:HA	14	0.4	0.15	0.38
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB1	14	0.37	0.2	0.29

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB2	14	0.37	0.2	0.29
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB3	14	0.37	0.2	0.29
(1,332)	1:47:A:GLN:H	1:53:A:LEU:H	14	0.35	0.19	0.3
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD11	14	0.23	0.11	0.2
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD12	14	0.23	0.11	0.2
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD13	14	0.23	0.11	0.2
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD21	14	0.23	0.11	0.2
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD22	14	0.23	0.11	0.2
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD23	14	0.23	0.11	0.2
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD11	14	0.23	0.11	0.2
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD12	14	0.23	0.11	0.2
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD13	14	0.23	0.11	0.2
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD21	14	0.23	0.11	0.2
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD22	14	0.23	0.11	0.2
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD23	14	0.23	0.11	0.2
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD11	14	0.23	0.11	0.2
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD12	14	0.23	0.11	0.2
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD13	14	0.23	0.11	0.2
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD21	14	0.23	0.11	0.2
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD22	14	0.23	0.11	0.2
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD23	14	0.23	0.11	0.2
(1,436)	1:90:A:ALA:HB1	1:148:A:LEU:H	14	0.22	0.13	0.18
(1,436)	1:90:A:ALA:HB2	1:148:A:LEU:H	14	0.22	0.13	0.18
(1,436)	1:90:A:ALA:HB3	1:148:A:LEU:H	14	0.22	0.13	0.18
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB1	14	0.18	0.08	0.16
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB2	14	0.18	0.08	0.16
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB3	14	0.18	0.08	0.16
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB1	14	0.18	0.08	0.16
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB2	14	0.18	0.08	0.16
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB3	14	0.18	0.08	0.16
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB1	14	0.18	0.08	0.16
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB2	14	0.18	0.08	0.16
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB3	14	0.18	0.08	0.16
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB1	14	0.18	0.08	0.16
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB2	14	0.18	0.08	0.16
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB3	14	0.18	0.08	0.16
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB1	14	0.18	0.08	0.16
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB2	14	0.18	0.08	0.16
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB3	14	0.18	0.08	0.16
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB1	14	0.18	0.08	0.16
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB2	14	0.18	0.08	0.16
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB3	14	0.18	0.08	0.16

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,321)	1:65:A:ASP:HB3	1:66:A:THR:H	14	0.17	0.06	0.16
(1,366)	1:70:A:ASN:H	1:72:A:ILE:HG12	14	0.16	0.06	0.14
(1,366)	1:70:A:ASN:H	1:72:A:ILE:HG13	14	0.16	0.06	0.14
(1,841)	1:130:A:LEU:HD11	1:132:A:ARG:H	13	0.6	0.22	0.54
(1,841)	1:130:A:LEU:HD12	1:132:A:ARG:H	13	0.6	0.22	0.54
(1,841)	1:130:A:LEU:HD13	1:132:A:ARG:H	13	0.6	0.22	0.54
(1,841)	1:130:A:LEU:HD21	1:132:A:ARG:H	13	0.6	0.22	0.54
(1,841)	1:130:A:LEU:HD22	1:132:A:ARG:H	13	0.6	0.22	0.54
(1,841)	1:130:A:LEU:HD23	1:132:A:ARG:H	13	0.6	0.22	0.54
(1,927)	1:94:A:ARG:HG2	1:131:A:GLY:H	13	0.59	0.32	0.63
(1,927)	1:94:A:ARG:HG3	1:131:A:GLY:H	13	0.59	0.32	0.63
(1,44)	1:43:A:ILE:HG21	1:48:A:LEU:H	13	0.36	0.12	0.38
(1,44)	1:43:A:ILE:HG22	1:48:A:LEU:H	13	0.36	0.12	0.38
(1,44)	1:43:A:ILE:HG23	1:48:A:LEU:H	13	0.36	0.12	0.38
(1,107)	1:56:A:LEU:HD11	1:58:A:ALA:H	13	0.35	0.07	0.39
(1,107)	1:56:A:LEU:HD12	1:58:A:ALA:H	13	0.35	0.07	0.39
(1,107)	1:56:A:LEU:HD13	1:58:A:ALA:H	13	0.35	0.07	0.39
(1,107)	1:56:A:LEU:HD21	1:58:A:ALA:H	13	0.35	0.07	0.39
(1,107)	1:56:A:LEU:HD22	1:58:A:ALA:H	13	0.35	0.07	0.39
(1,107)	1:56:A:LEU:HD23	1:58:A:ALA:H	13	0.35	0.07	0.39
(1,849)	1:89:A:ASP:H	1:95:A:LEU:HD21	13	0.35	0.13	0.35
(1,849)	1:89:A:ASP:H	1:95:A:LEU:HD22	13	0.35	0.13	0.35
(1,849)	1:89:A:ASP:H	1:95:A:LEU:HD23	13	0.35	0.13	0.35
(1,66)	1:152:A:GLU:HA	1:154:A:GLU:H	13	0.35	0.17	0.36
(1,291)	1:97:A:HIS:H	1:97:A:HIS:HD2	13	0.3	0.23	0.23
(1,133)	1:65:A:ASP:HA	1:147:A:VAL:HG21	13	0.27	0.1	0.28
(1,133)	1:65:A:ASP:HA	1:147:A:VAL:HG22	13	0.27	0.1	0.28
(1,133)	1:65:A:ASP:HA	1:147:A:VAL:HG23	13	0.27	0.1	0.28
(1,50)	1:150:A:TRP:HA	1:151:A:VAL:HB	13	0.23	0.05	0.23
(1,769)	1:68:A:VAL:H	1:72:A:ILE:HD11	13	0.21	0.1	0.19
(1,769)	1:68:A:VAL:H	1:72:A:ILE:HD12	13	0.21	0.1	0.19
(1,769)	1:68:A:VAL:H	1:72:A:ILE:HD13	13	0.21	0.1	0.19
(1,481)	1:43:A:ILE:HA	1:45:A:ARG:HB2	13	0.21	0.09	0.17
(1,481)	1:43:A:ILE:HA	1:45:A:ARG:HB3	13	0.21	0.09	0.17
(1,965)	1:56:A:LEU:HG	1:57:A:ALA:HA	13	0.2	0.05	0.22
(1,988)	1:66:A:THR:HG21	1:67:A:ALA:H	13	0.17	0.05	0.16
(1,988)	1:66:A:THR:HG22	1:67:A:ALA:H	13	0.17	0.05	0.16
(1,988)	1:66:A:THR:HG23	1:67:A:ALA:H	13	0.17	0.05	0.16
(1,843)	1:71:A:ARG:H	1:72:A:ILE:HG21	13	0.16	0.05	0.15
(1,843)	1:71:A:ARG:H	1:72:A:ILE:HG22	13	0.16	0.05	0.15
(1,843)	1:71:A:ARG:H	1:72:A:ILE:HG23	13	0.16	0.05	0.15
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG11	13	0.14	0.02	0.13

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG12	13	0.14	0.02	0.13
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG13	13	0.14	0.02	0.13
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG21	13	0.14	0.02	0.13
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG22	13	0.14	0.02	0.13
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG23	13	0.14	0.02	0.13
(1,945)	1:146:A:ARG:H	1:146:A:ARG:HG2	13	0.12	0.01	0.12
(1,945)	1:146:A:ARG:H	1:146:A:ARG:HG3	13	0.12	0.01	0.12
(1,737)	1:47:A:GLN:HE21	1:52:A:GLN:HE21	12	1.05	0.8	1.1
(1,1056)	1:83:A:ARG:HD2	1:154:A:GLU:HB2	12	0.71	0.19	0.74
(1,1056)	1:83:A:ARG:HD2	1:154:A:GLU:HB3	12	0.71	0.19	0.74
(1,1056)	1:83:A:ARG:HD3	1:154:A:GLU:HB2	12	0.71	0.19	0.74
(1,1056)	1:83:A:ARG:HD3	1:154:A:GLU:HB3	12	0.71	0.19	0.74
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD11	12	0.36	0.15	0.34
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD12	12	0.36	0.15	0.34
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD13	12	0.36	0.15	0.34
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD21	12	0.36	0.15	0.34
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD22	12	0.36	0.15	0.34
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD23	12	0.36	0.15	0.34
(1,45)	1:94:A:ARG:H	1:125:A:PHE:H	12	0.33	0.14	0.31
(1,404)	1:50:A:ALA:H	1:51:A:GLU:HB2	12	0.29	0.12	0.32
(1,404)	1:50:A:ALA:H	1:51:A:GLU:HB3	12	0.29	0.12	0.32
(1,28)	1:146:A:ARG:HE	1:147:A:VAL:HG21	12	0.28	0.06	0.29
(1,28)	1:146:A:ARG:HE	1:147:A:VAL:HG22	12	0.28	0.06	0.29
(1,28)	1:146:A:ARG:HE	1:147:A:VAL:HG23	12	0.28	0.06	0.29
(1,509)	1:43:A:ILE:HD11	1:53:A:LEU:H	12	0.27	0.13	0.24
(1,509)	1:43:A:ILE:HD12	1:53:A:LEU:H	12	0.27	0.13	0.24
(1,509)	1:43:A:ILE:HD13	1:53:A:LEU:H	12	0.27	0.13	0.24
(1,790)	1:74:A:ASN:HD21	1:98:A:ALA:HB1	12	0.26	0.1	0.24
(1,790)	1:74:A:ASN:HD21	1:98:A:ALA:HB2	12	0.26	0.1	0.24
(1,790)	1:74:A:ASN:HD21	1:98:A:ALA:HB3	12	0.26	0.1	0.24
(1,432)	1:131:A:GLY:H	1:132:A:ARG:HG2	12	0.24	0.11	0.2
(1,432)	1:131:A:GLY:H	1:132:A:ARG:HG3	12	0.24	0.11	0.2
(1,752)	1:140:A:THR:HG21	1:141:A:GLU:H	12	0.23	0.09	0.22
(1,752)	1:140:A:THR:HG22	1:141:A:GLU:H	12	0.23	0.09	0.22
(1,752)	1:140:A:THR:HG23	1:141:A:GLU:H	12	0.23	0.09	0.22
(1,231)	1:95:A:LEU:HD21	1:96:A:ALA:H	12	0.23	0.08	0.22
(1,231)	1:95:A:LEU:HD22	1:96:A:ALA:H	12	0.23	0.08	0.22
(1,231)	1:95:A:LEU:HD23	1:96:A:ALA:H	12	0.23	0.08	0.22
(1,511)	1:146:A:ARG:HE	1:147:A:VAL:HG11	12	0.22	0.11	0.2
(1,511)	1:146:A:ARG:HE	1:147:A:VAL:HG12	12	0.22	0.11	0.2
(1,511)	1:146:A:ARG:HE	1:147:A:VAL:HG13	12	0.22	0.11	0.2
(1,30)	1:97:A:HIS:H	1:98:A:ALA:HA	12	0.12	0.02	0.11

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,328)	1:47:A:GLN:HE21	1:52:A:GLN:H	11	0.42	0.35	0.25
(1,305)	1:93:A:GLU:HA	1:94:A:ARG:HD2	11	0.35	0.17	0.37
(1,305)	1:93:A:GLU:HA	1:94:A:ARG:HD3	11	0.35	0.17	0.37
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD11	11	0.32	0.14	0.29
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD12	11	0.32	0.14	0.29
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD13	11	0.32	0.14	0.29
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD21	11	0.32	0.14	0.29
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD22	11	0.32	0.14	0.29
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD23	11	0.32	0.14	0.29
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD11	11	0.32	0.14	0.29
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD12	11	0.32	0.14	0.29
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD13	11	0.32	0.14	0.29
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD21	11	0.32	0.14	0.29
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD22	11	0.32	0.14	0.29
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD23	11	0.32	0.14	0.29
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD11	11	0.27	0.11	0.24
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD12	11	0.27	0.11	0.24
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD13	11	0.27	0.11	0.24
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD21	11	0.27	0.11	0.24
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD22	11	0.27	0.11	0.24
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD23	11	0.27	0.11	0.24
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD11	11	0.27	0.11	0.24
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD12	11	0.27	0.11	0.24
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD13	11	0.27	0.11	0.24
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD21	11	0.27	0.11	0.24
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD22	11	0.27	0.11	0.24
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD23	11	0.27	0.11	0.24
(1,257)	1:104:A:THR:H	1:106:A:ALA:H	11	0.24	0.08	0.26
(1,97)	1:93:A:GLU:HB2	1:124:A:HIS:H	11	0.23	0.11	0.17
(1,97)	1:93:A:GLU:HB3	1:124:A:HIS:H	11	0.23	0.11	0.17
(1,983)	1:80:A:PRO:HA	1:164:A:GLY:HA2	11	0.22	0.09	0.16
(1,983)	1:80:A:PRO:HA	1:164:A:GLY:HA3	11	0.22	0.09	0.16
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD11	11	0.22	0.1	0.19
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD12	11	0.22	0.1	0.19
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD13	11	0.22	0.1	0.19
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD21	11	0.22	0.1	0.19
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD22	11	0.22	0.1	0.19
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD23	11	0.22	0.1	0.19
(1,440)	1:65:A:ASP:HA	1:147:A:VAL:HG11	11	0.22	0.09	0.2
(1,440)	1:65:A:ASP:HA	1:147:A:VAL:HG12	11	0.22	0.09	0.2
(1,440)	1:65:A:ASP:HA	1:147:A:VAL:HG13	11	0.22	0.09	0.2
(1,369)	1:44:A:GLU:HG2	1:45:A:ARG:H	11	0.2	0.04	0.18

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,369)	1:44:A:GLU:HG3	1:45:A:ARG:H	11	0.2	0.04	0.18
(1,331)	1:66:A:THR:H	1:147:A:VAL:HG21	11	0.19	0.05	0.2
(1,331)	1:66:A:THR:H	1:147:A:VAL:HG22	11	0.19	0.05	0.2
(1,331)	1:66:A:THR:H	1:147:A:VAL:HG23	11	0.19	0.05	0.2
(1,485)	1:44:A:GLU:HG2	1:45:A:ARG:HA	11	0.18	0.06	0.16
(1,485)	1:44:A:GLU:HG3	1:45:A:ARG:HA	11	0.18	0.06	0.16
(1,192)	1:40:A:ALA:H	1:41:A:GLN:HG2	11	0.17	0.05	0.15
(1,616)	1:38:A:MET:HA	1:42:A:LEU:HB2	11	0.14	0.03	0.13
(1,827)	1:91:A:ARG:H	1:92:A:GLN:HA	11	0.13	0.04	0.12
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG11	11	0.13	0.02	0.12
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG12	11	0.13	0.02	0.12
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG13	11	0.13	0.02	0.12
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG21	11	0.13	0.02	0.12
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG22	11	0.13	0.02	0.12
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG23	11	0.13	0.02	0.12
(1,535)	1:110:A:ASP:HB2	1:112:A:SER:H	10	0.81	0.43	0.82
(1,535)	1:110:A:ASP:HB3	1:112:A:SER:H	10	0.81	0.43	0.82
(1,194)	1:64:A:LYS:HE2	1:69:A:LEU:HD21	10	0.41	0.15	0.44
(1,194)	1:64:A:LYS:HE2	1:69:A:LEU:HD22	10	0.41	0.15	0.44
(1,194)	1:64:A:LYS:HE2	1:69:A:LEU:HD23	10	0.41	0.15	0.44
(1,194)	1:64:A:LYS:HE3	1:69:A:LEU:HD21	10	0.41	0.15	0.44
(1,194)	1:64:A:LYS:HE3	1:69:A:LEU:HD22	10	0.41	0.15	0.44
(1,194)	1:64:A:LYS:HE3	1:69:A:LEU:HD23	10	0.41	0.15	0.44
(1,539)	1:70:A:ASN:HD22	1:74:A:ASN:HB2	10	0.37	0.1	0.37
(1,864)	1:90:A:ALA:HB1	1:149:A:GLY:H	10	0.3	0.12	0.26
(1,864)	1:90:A:ALA:HB2	1:149:A:GLY:H	10	0.3	0.12	0.26
(1,864)	1:90:A:ALA:HB3	1:149:A:GLY:H	10	0.3	0.12	0.26
(1,216)	1:60:A:ALA:H	1:63:A:ARG:HD2	10	0.25	0.04	0.26
(1,216)	1:60:A:ALA:H	1:63:A:ARG:HD3	10	0.25	0.04	0.26
(1,281)	1:115:A:SER:HA	1:116:A:MET:HA	10	0.18	0.1	0.15
(1,185)	1:63:A:ARG:H	1:63:A:ARG:HD2	10	0.18	0.03	0.16
(1,185)	1:63:A:ARG:H	1:63:A:ARG:HD3	10	0.18	0.03	0.16
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD11	10	0.16	0.07	0.13
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD12	10	0.16	0.07	0.13
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD13	10	0.16	0.07	0.13
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD21	10	0.16	0.07	0.13
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD22	10	0.16	0.07	0.13
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD23	10	0.16	0.07	0.13
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD11	10	0.16	0.07	0.13
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD12	10	0.16	0.07	0.13
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD13	10	0.16	0.07	0.13
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD21	10	0.16	0.07	0.13

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD22	10	0.16	0.07	0.13
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD23	10	0.16	0.07	0.13
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD11	10	0.16	0.07	0.13
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD12	10	0.16	0.07	0.13
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD13	10	0.16	0.07	0.13
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD21	10	0.16	0.07	0.13
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD22	10	0.16	0.07	0.13
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD23	10	0.16	0.07	0.13
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD11	10	0.16	0.07	0.13
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD12	10	0.16	0.07	0.13
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD13	10	0.16	0.07	0.13
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD21	10	0.16	0.07	0.13
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD22	10	0.16	0.07	0.13
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD23	10	0.16	0.07	0.13
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD11	10	0.16	0.07	0.13
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD12	10	0.16	0.07	0.13
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD13	10	0.16	0.07	0.13
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD21	10	0.16	0.07	0.13
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD22	10	0.16	0.07	0.13
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD23	10	0.16	0.07	0.13
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD11	10	0.16	0.07	0.13
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD12	10	0.16	0.07	0.13
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD13	10	0.16	0.07	0.13
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD21	10	0.16	0.07	0.13
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD22	10	0.16	0.07	0.13
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD23	10	0.16	0.07	0.13
(1,1172)	1:95:A:LEU:HD11	1:96:A:ALA:H	10	0.15	0.04	0.15
(1,1172)	1:95:A:LEU:HD12	1:96:A:ALA:H	10	0.15	0.04	0.15
(1,1172)	1:95:A:LEU:HD13	1:96:A:ALA:H	10	0.15	0.04	0.15
(1,1172)	1:95:A:LEU:HD21	1:96:A:ALA:H	10	0.15	0.04	0.15
(1,1172)	1:95:A:LEU:HD22	1:96:A:ALA:H	10	0.15	0.04	0.15
(1,1172)	1:95:A:LEU:HD23	1:96:A:ALA:H	10	0.15	0.04	0.15
(1,13)	1:47:A:GLN:HE21	1:52:A:GLN:HG2	9	0.99	0.38	1.07
(1,13)	1:47:A:GLN:HE21	1:52:A:GLN:HG3	9	0.99	0.38	1.07
(1,996)	1:138:A:GLY:H	1:140:A:THR:HG21	9	0.41	0.11	0.43
(1,996)	1:138:A:GLY:H	1:140:A:THR:HG22	9	0.41	0.11	0.43
(1,996)	1:138:A:GLY:H	1:140:A:THR:HG23	9	0.41	0.11	0.43
(1,296)	1:80:A:PRO:HG2	1:163:A:ARG:HH11	9	0.39	0.17	0.39
(1,296)	1:80:A:PRO:HG2	1:163:A:ARG:HH12	9	0.39	0.17	0.39
(1,296)	1:80:A:PRO:HG3	1:163:A:ARG:HH11	9	0.39	0.17	0.39
(1,296)	1:80:A:PRO:HG3	1:163:A:ARG:HH12	9	0.39	0.17	0.39
(1,688)	1:93:A:GLU:HA	1:125:A:PHE:H	9	0.37	0.16	0.4

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1017)	1:64:A:LYS:HD2	1:141:A:GLU:HB2	9	0.32	0.25	0.15
(1,1017)	1:64:A:LYS:HD2	1:141:A:GLU:HB3	9	0.32	0.25	0.15
(1,1017)	1:64:A:LYS:HD3	1:141:A:GLU:HB2	9	0.32	0.25	0.15
(1,1017)	1:64:A:LYS:HD3	1:141:A:GLU:HB3	9	0.32	0.25	0.15
(1,970)	1:138:A:GLY:HA3	1:140:A:THR:HG21	9	0.24	0.14	0.21
(1,970)	1:138:A:GLY:HA3	1:140:A:THR:HG22	9	0.24	0.14	0.21
(1,970)	1:138:A:GLY:HA3	1:140:A:THR:HG23	9	0.24	0.14	0.21
(1,733)	1:88:A:LEU:HD11	1:94:A:ARG:HA	9	0.24	0.09	0.21
(1,733)	1:88:A:LEU:HD12	1:94:A:ARG:HA	9	0.24	0.09	0.21
(1,733)	1:88:A:LEU:HD13	1:94:A:ARG:HA	9	0.24	0.09	0.21
(1,77)	1:88:A:LEU:HD11	1:124:A:HIS:H	9	0.21	0.08	0.19
(1,77)	1:88:A:LEU:HD12	1:124:A:HIS:H	9	0.21	0.08	0.19
(1,77)	1:88:A:LEU:HD13	1:124:A:HIS:H	9	0.21	0.08	0.19
(1,632)	1:105:A:VAL:HG11	1:106:A:ALA:HA	9	0.21	0.11	0.15
(1,632)	1:105:A:VAL:HG12	1:106:A:ALA:HA	9	0.21	0.11	0.15
(1,632)	1:105:A:VAL:HG13	1:106:A:ALA:HA	9	0.21	0.11	0.15
(1,632)	1:105:A:VAL:HG21	1:106:A:ALA:HA	9	0.21	0.11	0.15
(1,632)	1:105:A:VAL:HG22	1:106:A:ALA:HA	9	0.21	0.11	0.15
(1,632)	1:105:A:VAL:HG23	1:106:A:ALA:HA	9	0.21	0.11	0.15
(1,1054)	1:61:A:LEU:HB2	1:65:A:ASP:H	9	0.17	0.06	0.15
(1,1054)	1:61:A:LEU:HB3	1:65:A:ASP:H	9	0.17	0.06	0.15
(1,448)	1:86:A:THR:HG21	1:150:A:TRP:HE3	9	0.15	0.03	0.13
(1,448)	1:86:A:THR:HG22	1:150:A:TRP:HE3	9	0.15	0.03	0.13
(1,448)	1:86:A:THR:HG23	1:150:A:TRP:HE3	9	0.15	0.03	0.13
(1,309)	1:146:A:ARG:HD2	1:147:A:VAL:H	9	0.15	0.03	0.14
(1,309)	1:146:A:ARG:HD3	1:147:A:VAL:H	9	0.15	0.03	0.14
(1,529)	1:47:A:GLN:H	1:52:A:GLN:HB2	8	0.96	0.11	0.92
(1,529)	1:47:A:GLN:H	1:52:A:GLN:HB3	8	0.96	0.11	0.92
(1,39)	1:121:A:ASP:H	1:123:A:THR:H	8	0.84	0.51	0.62
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD11	8	0.56	0.23	0.47
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD12	8	0.56	0.23	0.47
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD13	8	0.56	0.23	0.47
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD21	8	0.56	0.23	0.47
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD22	8	0.56	0.23	0.47
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD23	8	0.56	0.23	0.47
(1,267)	1:43:A:ILE:HG21	1:52:A:GLN:HB2	8	0.49	0.16	0.44
(1,267)	1:43:A:ILE:HG21	1:52:A:GLN:HB3	8	0.49	0.16	0.44
(1,267)	1:43:A:ILE:HG22	1:52:A:GLN:HB2	8	0.49	0.16	0.44
(1,267)	1:43:A:ILE:HG22	1:52:A:GLN:HB3	8	0.49	0.16	0.44
(1,267)	1:43:A:ILE:HG23	1:52:A:GLN:HB2	8	0.49	0.16	0.44
(1,267)	1:43:A:ILE:HG23	1:52:A:GLN:HB3	8	0.49	0.16	0.44
(1,1129)	1:81:A:ASP:HB2	1:162:A:LEU:HB2	8	0.42	0.2	0.48

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1129)	1:81:A:ASP:HB2	1:162:A:LEU:HB3	8	0.42	0.2	0.48
(1,1129)	1:81:A:ASP:HB3	1:162:A:LEU:HB2	8	0.42	0.2	0.48
(1,1129)	1:81:A:ASP:HB3	1:162:A:LEU:HB3	8	0.42	0.2	0.48
(1,568)	1:111:A:ALA:HA	1:114:A:LEU:H	8	0.33	0.19	0.25
(1,971)	1:60:A:ALA:HA	1:65:A:ASP:HB3	8	0.32	0.17	0.22
(1,695)	1:42:A:LEU:HA	1:56:A:LEU:HB2	8	0.28	0.13	0.23
(1,695)	1:42:A:LEU:HA	1:56:A:LEU:HB3	8	0.28	0.13	0.23
(1,1193)	1:148:A:LEU:HD11	1:149:A:GLY:H	8	0.21	0.08	0.18
(1,1193)	1:148:A:LEU:HD12	1:149:A:GLY:H	8	0.21	0.08	0.18
(1,1193)	1:148:A:LEU:HD13	1:149:A:GLY:H	8	0.21	0.08	0.18
(1,1193)	1:148:A:LEU:HD21	1:149:A:GLY:H	8	0.21	0.08	0.18
(1,1193)	1:148:A:LEU:HD22	1:149:A:GLY:H	8	0.21	0.08	0.18
(1,1193)	1:148:A:LEU:HD23	1:149:A:GLY:H	8	0.21	0.08	0.18
(1,766)	1:59:A:THR:HA	1:62:A:ALA:HB1	8	0.16	0.05	0.15
(1,766)	1:59:A:THR:HA	1:62:A:ALA:HB2	8	0.16	0.05	0.15
(1,766)	1:59:A:THR:HA	1:62:A:ALA:HB3	8	0.16	0.05	0.15
(1,136)	1:69:A:LEU:HD21	1:70:A:ASN:H	8	0.14	0.04	0.14
(1,136)	1:69:A:LEU:HD22	1:70:A:ASN:H	8	0.14	0.04	0.14
(1,136)	1:69:A:LEU:HD23	1:70:A:ASN:H	8	0.14	0.04	0.14
(1,304)	1:83:A:ARG:HA	1:84:A:ALA:HB1	8	0.13	0.02	0.12
(1,304)	1:83:A:ARG:HA	1:84:A:ALA:HB2	8	0.13	0.02	0.12
(1,304)	1:83:A:ARG:HA	1:84:A:ALA:HB3	8	0.13	0.02	0.12
(1,182)	1:69:A:LEU:HD11	1:70:A:ASN:H	8	0.12	0.02	0.12
(1,182)	1:69:A:LEU:HD12	1:70:A:ASN:H	8	0.12	0.02	0.12
(1,182)	1:69:A:LEU:HD13	1:70:A:ASN:H	8	0.12	0.02	0.12
(1,202)	1:163:A:ARG:HE	1:164:A:GLY:H	7	0.69	0.44	0.4
(1,594)	1:139:A:ALA:HA	1:145:A:GLU:HG2	7	0.47	0.34	0.54
(1,594)	1:139:A:ALA:HA	1:145:A:GLU:HG3	7	0.47	0.34	0.54
(1,666)	1:47:A:GLN:HB2	1:52:A:GLN:HG2	7	0.31	0.1	0.28
(1,666)	1:47:A:GLN:HB2	1:52:A:GLN:HG3	7	0.31	0.1	0.28
(1,666)	1:47:A:GLN:HB3	1:52:A:GLN:HG2	7	0.31	0.1	0.28
(1,666)	1:47:A:GLN:HB3	1:52:A:GLN:HG3	7	0.31	0.1	0.28
(1,1009)	1:80:A:PRO:HB2	1:164:A:GLY:HA2	7	0.26	0.08	0.24
(1,1009)	1:80:A:PRO:HB2	1:164:A:GLY:HA3	7	0.26	0.08	0.24
(1,1009)	1:80:A:PRO:HB3	1:164:A:GLY:HA2	7	0.26	0.08	0.24
(1,1009)	1:80:A:PRO:HB3	1:164:A:GLY:HA3	7	0.26	0.08	0.24
(1,43)	1:83:A:ARG:HA	1:155:A:LEU:HA	7	0.23	0.05	0.23
(1,272)	1:94:A:ARG:H	1:124:A:HIS:HA	7	0.23	0.13	0.19
(1,16)	1:56:A:LEU:HD11	1:72:A:ILE:H	7	0.18	0.06	0.16
(1,16)	1:56:A:LEU:HD12	1:72:A:ILE:H	7	0.18	0.06	0.16
(1,16)	1:56:A:LEU:HD13	1:72:A:ILE:H	7	0.18	0.06	0.16
(1,16)	1:56:A:LEU:HD21	1:72:A:ILE:H	7	0.18	0.06	0.16

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,16)	1:56:A:LEU:HD22	1:72:A:ILE:H	7	0.18	0.06	0.16
(1,16)	1:56:A:LEU:HD23	1:72:A:ILE:H	7	0.18	0.06	0.16
(1,65)	1:147:A:VAL:HG21	1:149:A:GLY:HA2	7	0.17	0.07	0.16
(1,65)	1:147:A:VAL:HG22	1:149:A:GLY:HA2	7	0.17	0.07	0.16
(1,65)	1:147:A:VAL:HG23	1:149:A:GLY:HA2	7	0.17	0.07	0.16
(1,65)	1:147:A:VAL:HG21	1:149:A:GLY:HA3	7	0.17	0.07	0.16
(1,65)	1:147:A:VAL:HG22	1:149:A:GLY:HA3	7	0.17	0.07	0.16
(1,65)	1:147:A:VAL:HG23	1:149:A:GLY:HA3	7	0.17	0.07	0.16
(1,784)	1:147:A:VAL:H	1:149:A:GLY:H	7	0.13	0.02	0.13
(1,334)	1:47:A:GLN:HE21	1:52:A:GLN:HB2	6	1.08	0.44	0.9
(1,334)	1:47:A:GLN:HE21	1:52:A:GLN:HB3	6	1.08	0.44	0.9
(1,447)	1:162:A:LEU:HD11	1:163:A:ARG:HH11	6	0.53	0.42	0.42
(1,447)	1:162:A:LEU:HD11	1:163:A:ARG:HH12	6	0.53	0.42	0.42
(1,447)	1:162:A:LEU:HD12	1:163:A:ARG:HH11	6	0.53	0.42	0.42
(1,447)	1:162:A:LEU:HD12	1:163:A:ARG:HH12	6	0.53	0.42	0.42
(1,447)	1:162:A:LEU:HD13	1:163:A:ARG:HH11	6	0.53	0.42	0.42
(1,447)	1:162:A:LEU:HD13	1:163:A:ARG:HH12	6	0.53	0.42	0.42
(1,447)	1:162:A:LEU:HD21	1:163:A:ARG:HH11	6	0.53	0.42	0.42
(1,447)	1:162:A:LEU:HD21	1:163:A:ARG:HH12	6	0.53	0.42	0.42
(1,447)	1:162:A:LEU:HD22	1:163:A:ARG:HH11	6	0.53	0.42	0.42
(1,447)	1:162:A:LEU:HD22	1:163:A:ARG:HH12	6	0.53	0.42	0.42
(1,447)	1:162:A:LEU:HD23	1:163:A:ARG:HH11	6	0.53	0.42	0.42
(1,447)	1:162:A:LEU:HD23	1:163:A:ARG:HH12	6	0.53	0.42	0.42
(1,172)	1:159:A:GLY:H	1:162:A:LEU:HD11	6	0.48	0.13	0.48
(1,172)	1:159:A:GLY:H	1:162:A:LEU:HD12	6	0.48	0.13	0.48
(1,172)	1:159:A:GLY:H	1:162:A:LEU:HD13	6	0.48	0.13	0.48
(1,172)	1:159:A:GLY:H	1:162:A:LEU:HD21	6	0.48	0.13	0.48
(1,172)	1:159:A:GLY:H	1:162:A:LEU:HD22	6	0.48	0.13	0.48
(1,172)	1:159:A:GLY:H	1:162:A:LEU:HD23	6	0.48	0.13	0.48
(1,68)	1:162:A:LEU:HA	1:163:A:ARG:HH11	6	0.48	0.26	0.44
(1,68)	1:162:A:LEU:HA	1:163:A:ARG:HH12	6	0.48	0.26	0.44
(1,354)	1:76:A:ALA:HB1	1:79:A:GLN:HE22	6	0.41	0.11	0.44
(1,354)	1:76:A:ALA:HB2	1:79:A:GLN:HE22	6	0.41	0.11	0.44
(1,354)	1:76:A:ALA:HB3	1:79:A:GLN:HE22	6	0.41	0.11	0.44
(1,882)	1:130:A:LEU:HD11	1:131:A:GLY:H	6	0.38	0.15	0.41
(1,882)	1:130:A:LEU:HD12	1:131:A:GLY:H	6	0.38	0.15	0.41
(1,882)	1:130:A:LEU:HD13	1:131:A:GLY:H	6	0.38	0.15	0.41
(1,882)	1:130:A:LEU:HD21	1:131:A:GLY:H	6	0.38	0.15	0.41
(1,882)	1:130:A:LEU:HD22	1:131:A:GLY:H	6	0.38	0.15	0.41
(1,882)	1:130:A:LEU:HD23	1:131:A:GLY:H	6	0.38	0.15	0.41
(1,85)	1:76:A:ALA:HB1	1:79:A:GLN:HE21	6	0.34	0.15	0.4
(1,85)	1:76:A:ALA:HB2	1:79:A:GLN:HE21	6	0.34	0.15	0.4

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,85)	1:76:A:ALA:HB3	1:79:A:GLN:HE21	6	0.34	0.15	0.4
(1,477)	1:135:A:SER:HB3	1:136:A:LEU:H	6	0.32	0.09	0.31
(1,249)	1:139:A:ALA:H	1:147:A:VAL:HG21	6	0.32	0.14	0.32
(1,249)	1:139:A:ALA:H	1:147:A:VAL:HG22	6	0.32	0.14	0.32
(1,249)	1:139:A:ALA:H	1:147:A:VAL:HG23	6	0.32	0.14	0.32
(1,1190)	1:146:A:ARG:HB2	1:151:A:VAL:HG11	6	0.26	0.1	0.24
(1,1190)	1:146:A:ARG:HB2	1:151:A:VAL:HG12	6	0.26	0.1	0.24
(1,1190)	1:146:A:ARG:HB2	1:151:A:VAL:HG13	6	0.26	0.1	0.24
(1,1190)	1:146:A:ARG:HB2	1:151:A:VAL:HG21	6	0.26	0.1	0.24
(1,1190)	1:146:A:ARG:HB2	1:151:A:VAL:HG22	6	0.26	0.1	0.24
(1,1190)	1:146:A:ARG:HB2	1:151:A:VAL:HG23	6	0.26	0.1	0.24
(1,1190)	1:146:A:ARG:HB3	1:151:A:VAL:HG11	6	0.26	0.1	0.24
(1,1190)	1:146:A:ARG:HB3	1:151:A:VAL:HG12	6	0.26	0.1	0.24
(1,1190)	1:146:A:ARG:HB3	1:151:A:VAL:HG13	6	0.26	0.1	0.24
(1,1190)	1:146:A:ARG:HB3	1:151:A:VAL:HG21	6	0.26	0.1	0.24
(1,1190)	1:146:A:ARG:HB3	1:151:A:VAL:HG22	6	0.26	0.1	0.24
(1,1190)	1:146:A:ARG:HB3	1:151:A:VAL:HG23	6	0.26	0.1	0.24
(1,371)	1:47:A:GLN:H	1:47:A:GLN:HE21	6	0.26	0.11	0.22
(1,358)	1:51:A:GLU:H	1:52:A:GLN:HB2	6	0.19	0.05	0.22
(1,358)	1:51:A:GLU:H	1:52:A:GLN:HB3	6	0.19	0.05	0.22
(1,660)	1:57:A:ALA:HB1	1:69:A:LEU:HD21	6	0.19	0.07	0.16
(1,660)	1:57:A:ALA:HB1	1:69:A:LEU:HD22	6	0.19	0.07	0.16
(1,660)	1:57:A:ALA:HB1	1:69:A:LEU:HD23	6	0.19	0.07	0.16
(1,660)	1:57:A:ALA:HB2	1:69:A:LEU:HD21	6	0.19	0.07	0.16
(1,660)	1:57:A:ALA:HB2	1:69:A:LEU:HD22	6	0.19	0.07	0.16
(1,660)	1:57:A:ALA:HB2	1:69:A:LEU:HD23	6	0.19	0.07	0.16
(1,660)	1:57:A:ALA:HB3	1:69:A:LEU:HD21	6	0.19	0.07	0.16
(1,660)	1:57:A:ALA:HB3	1:69:A:LEU:HD22	6	0.19	0.07	0.16
(1,660)	1:57:A:ALA:HB3	1:69:A:LEU:HD23	6	0.19	0.07	0.16
(1,98)	1:79:A:GLN:H	1:81:A:ASP:H	6	0.15	0.03	0.16
(1,156)	1:88:A:LEU:HG	1:89:A:ASP:HB2	6	0.13	0.01	0.14
(1,156)	1:88:A:LEU:HG	1:89:A:ASP:HB3	6	0.13	0.01	0.14
(1,867)	1:65:A:ASP:H	1:69:A:LEU:HB2	6	0.12	0.01	0.12
(1,867)	1:65:A:ASP:H	1:69:A:LEU:HB3	6	0.12	0.01	0.12
(1,633)	1:106:A:ALA:HA	1:114:A:LEU:HD11	5	1.67	0.49	1.85
(1,633)	1:106:A:ALA:HA	1:114:A:LEU:HD12	5	1.67	0.49	1.85
(1,633)	1:106:A:ALA:HA	1:114:A:LEU:HD13	5	1.67	0.49	1.85
(1,633)	1:106:A:ALA:HA	1:114:A:LEU:HD21	5	1.67	0.49	1.85
(1,633)	1:106:A:ALA:HA	1:114:A:LEU:HD22	5	1.67	0.49	1.85
(1,633)	1:106:A:ALA:HA	1:114:A:LEU:HD23	5	1.67	0.49	1.85
(1,266)	1:87:A:PHE:HD1	1:151:A:VAL:HB	5	0.45	0.03	0.47
(1,266)	1:87:A:PHE:HD2	1:151:A:VAL:HB	5	0.45	0.03	0.47

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,210)	1:70:A:ASN:HD21	1:71:A:ARG:HA	5	0.35	0.07	0.37
(1,179)	1:49:A:ILE:HG21	1:54:A:ALA:HA	5	0.29	0.21	0.12
(1,179)	1:49:A:ILE:HG22	1:54:A:ALA:HA	5	0.29	0.21	0.12
(1,179)	1:49:A:ILE:HG23	1:54:A:ALA:HA	5	0.29	0.21	0.12
(1,145)	1:90:A:ALA:HA	1:149:A:GLY:H	5	0.27	0.1	0.26
(1,506)	1:60:A:ALA:HB1	1:65:A:ASP:HB2	5	0.25	0.16	0.18
(1,506)	1:60:A:ALA:HB2	1:65:A:ASP:HB2	5	0.25	0.16	0.18
(1,506)	1:60:A:ALA:HB3	1:65:A:ASP:HB2	5	0.25	0.16	0.18
(1,949)	1:102:A:MET:HB2	1:104:A:THR:H	5	0.24	0.11	0.21
(1,949)	1:102:A:MET:HB3	1:104:A:THR:H	5	0.24	0.11	0.21
(1,973)	1:119:A:GLU:HB2	1:122:A:THR:H	5	0.23	0.17	0.15
(1,973)	1:119:A:GLU:HB3	1:122:A:THR:H	5	0.23	0.17	0.15
(1,836)	1:136:A:LEU:HG	1:137:A:SER:H	5	0.21	0.11	0.13
(1,446)	1:41:A:GLN:HG3	1:42:A:LEU:HA	5	0.15	0.03	0.14
(1,148)	1:75:A:GLU:HG2	1:76:A:ALA:HB1	5	0.15	0.03	0.13
(1,148)	1:75:A:GLU:HG2	1:76:A:ALA:HB2	5	0.15	0.03	0.13
(1,148)	1:75:A:GLU:HG2	1:76:A:ALA:HB3	5	0.15	0.03	0.13
(1,148)	1:75:A:GLU:HG3	1:76:A:ALA:HB1	5	0.15	0.03	0.13
(1,148)	1:75:A:GLU:HG3	1:76:A:ALA:HB2	5	0.15	0.03	0.13
(1,148)	1:75:A:GLU:HG3	1:76:A:ALA:HB3	5	0.15	0.03	0.13
(1,1061)	1:89:A:ASP:H	1:149:A:GLY:HA3	5	0.14	0.02	0.14
(1,510)	1:148:A:LEU:HG	1:149:A:GLY:H	5	0.13	0.02	0.14
(1,310)	1:51:A:GLU:HB2	1:52:A:GLN:H	5	0.12	0.01	0.12
(1,310)	1:51:A:GLU:HB3	1:52:A:GLN:H	5	0.12	0.01	0.12
(1,207)	1:82:A:VAL:HG11	1:98:A:ALA:H	5	0.12	0.01	0.12
(1,207)	1:82:A:VAL:HG12	1:98:A:ALA:H	5	0.12	0.01	0.12
(1,207)	1:82:A:VAL:HG13	1:98:A:ALA:H	5	0.12	0.01	0.12
(1,207)	1:82:A:VAL:HG21	1:98:A:ALA:H	5	0.12	0.01	0.12
(1,207)	1:82:A:VAL:HG22	1:98:A:ALA:H	5	0.12	0.01	0.12
(1,207)	1:82:A:VAL:HG23	1:98:A:ALA:H	5	0.12	0.01	0.12
(1,290)	1:106:A:ALA:HA	1:108:A:ALA:H	4	0.5	0.1	0.52
(1,306)	1:82:A:VAL:H	1:163:A:ARG:HH11	4	0.48	0.13	0.45
(1,306)	1:82:A:VAL:H	1:163:A:ARG:HH12	4	0.48	0.13	0.45
(1,106)	1:75:A:GLU:H	1:78:A:ASP:H	4	0.43	0.22	0.44
(1,146)	1:69:A:LEU:H	1:87:A:PHE:HE1	4	0.41	0.08	0.44
(1,146)	1:69:A:LEU:H	1:87:A:PHE:HE2	4	0.41	0.08	0.44
(1,946)	1:136:A:LEU:HB2	1:138:A:GLY:H	4	0.38	0.33	0.24
(1,946)	1:136:A:LEU:HB3	1:138:A:GLY:H	4	0.38	0.33	0.24
(1,139)	1:83:A:ARG:HG2	1:154:A:GLU:HA	4	0.35	0.13	0.37
(1,139)	1:83:A:ARG:HG3	1:154:A:GLU:HA	4	0.35	0.13	0.37
(1,52)	1:139:A:ALA:H	1:150:A:TRP:HB3	4	0.33	0.12	0.36
(1,108)	1:39:A:ARG:HD2	1:43:A:ILE:HG21	4	0.32	0.12	0.34

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,108)	1:39:A:ARG:HD2	1:43:A:ILE:HG22	4	0.32	0.12	0.34
(1,108)	1:39:A:ARG:HD2	1:43:A:ILE:HG23	4	0.32	0.12	0.34
(1,108)	1:39:A:ARG:HD3	1:43:A:ILE:HG21	4	0.32	0.12	0.34
(1,108)	1:39:A:ARG:HD3	1:43:A:ILE:HG22	4	0.32	0.12	0.34
(1,108)	1:39:A:ARG:HD3	1:43:A:ILE:HG23	4	0.32	0.12	0.34
(1,375)	1:160:A:THR:H	1:162:A:LEU:HD11	4	0.3	0.11	0.3
(1,375)	1:160:A:THR:H	1:162:A:LEU:HD12	4	0.3	0.11	0.3
(1,375)	1:160:A:THR:H	1:162:A:LEU:HD13	4	0.3	0.11	0.3
(1,375)	1:160:A:THR:H	1:162:A:LEU:HD21	4	0.3	0.11	0.3
(1,375)	1:160:A:THR:H	1:162:A:LEU:HD22	4	0.3	0.11	0.3
(1,375)	1:160:A:THR:H	1:162:A:LEU:HD23	4	0.3	0.11	0.3
(1,587)	1:66:A:THR:HB	1:147:A:VAL:HG21	4	0.3	0.11	0.32
(1,587)	1:66:A:THR:HB	1:147:A:VAL:HG22	4	0.3	0.11	0.32
(1,587)	1:66:A:THR:HB	1:147:A:VAL:HG23	4	0.3	0.11	0.32
(1,707)	1:74:A:ASN:HA	1:98:A:ALA:HB1	4	0.29	0.08	0.32
(1,707)	1:74:A:ASN:HA	1:98:A:ALA:HB2	4	0.29	0.08	0.32
(1,707)	1:74:A:ASN:HA	1:98:A:ALA:HB3	4	0.29	0.08	0.32
(1,400)	1:94:A:ARG:HA	1:123:A:THR:HA	4	0.28	0.07	0.31
(1,608)	1:57:A:ALA:HA	1:69:A:LEU:HD11	4	0.26	0.05	0.26
(1,608)	1:57:A:ALA:HA	1:69:A:LEU:HD12	4	0.26	0.05	0.26
(1,608)	1:57:A:ALA:HA	1:69:A:LEU:HD13	4	0.26	0.05	0.26
(1,73)	1:90:A:ALA:HB1	1:149:A:GLY:HA2	4	0.26	0.11	0.26
(1,73)	1:90:A:ALA:HB2	1:149:A:GLY:HA2	4	0.26	0.11	0.26
(1,73)	1:90:A:ALA:HB3	1:149:A:GLY:HA2	4	0.26	0.11	0.26
(1,406)	1:160:A:THR:HB	1:161:A:LEU:HB2	4	0.26	0.11	0.24
(1,406)	1:160:A:THR:HB	1:161:A:LEU:HB3	4	0.26	0.11	0.24
(1,78)	1:87:A:PHE:HA	1:151:A:VAL:HG11	4	0.24	0.06	0.24
(1,78)	1:87:A:PHE:HA	1:151:A:VAL:HG12	4	0.24	0.06	0.24
(1,78)	1:87:A:PHE:HA	1:151:A:VAL:HG13	4	0.24	0.06	0.24
(1,803)	1:89:A:ASP:H	1:95:A:LEU:HG	4	0.24	0.11	0.25
(1,26)	1:144:A:ASP:HB2	1:145:A:GLU:HG2	4	0.24	0.1	0.24
(1,26)	1:144:A:ASP:HB2	1:145:A:GLU:HG3	4	0.24	0.1	0.24
(1,26)	1:144:A:ASP:HB3	1:145:A:GLU:HG2	4	0.24	0.1	0.24
(1,26)	1:144:A:ASP:HB3	1:145:A:GLU:HG3	4	0.24	0.1	0.24
(1,930)	1:94:A:ARG:HG2	1:96:A:ALA:HB1	4	0.22	0.13	0.18
(1,930)	1:94:A:ARG:HG2	1:96:A:ALA:HB2	4	0.22	0.13	0.18
(1,930)	1:94:A:ARG:HG2	1:96:A:ALA:HB3	4	0.22	0.13	0.18
(1,930)	1:94:A:ARG:HG3	1:96:A:ALA:HB1	4	0.22	0.13	0.18
(1,930)	1:94:A:ARG:HG3	1:96:A:ALA:HB2	4	0.22	0.13	0.18
(1,930)	1:94:A:ARG:HG3	1:96:A:ALA:HB3	4	0.22	0.13	0.18
(1,1176)	1:124:A:HIS:HD2	1:127:A:LEU:HD11	4	0.21	0.05	0.2
(1,1176)	1:124:A:HIS:HD2	1:127:A:LEU:HD12	4	0.21	0.05	0.2

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1176)	1:124:A:HIS:HD2	1:127:A:LEU:HD13	4	0.21	0.05	0.2
(1,1176)	1:124:A:HIS:HD2	1:127:A:LEU:HD21	4	0.21	0.05	0.2
(1,1176)	1:124:A:HIS:HD2	1:127:A:LEU:HD22	4	0.21	0.05	0.2
(1,1176)	1:124:A:HIS:HD2	1:127:A:LEU:HD23	4	0.21	0.05	0.2
(1,82)	1:92:A:GLN:HB2	1:94:A:ARG:H	4	0.2	0.07	0.21
(1,82)	1:92:A:GLN:HB3	1:94:A:ARG:H	4	0.2	0.07	0.21
(1,470)	1:115:A:SER:H	1:116:A:MET:HB2	4	0.2	0.08	0.18
(1,470)	1:115:A:SER:H	1:116:A:MET:HB3	4	0.2	0.08	0.18
(1,706)	1:118:A:THR:HA	1:118:A:THR:HG21	4	0.18	0.02	0.17
(1,706)	1:118:A:THR:HA	1:118:A:THR:HG22	4	0.18	0.02	0.17
(1,706)	1:118:A:THR:HA	1:118:A:THR:HG23	4	0.18	0.02	0.17
(1,86)	1:91:A:ARG:HG2	1:93:A:GLU:H	4	0.17	0.07	0.16
(1,86)	1:91:A:ARG:HG3	1:93:A:GLU:H	4	0.17	0.07	0.16
(1,152)	1:49:A:ILE:HG21	1:50:A:ALA:HA	4	0.16	0.02	0.16
(1,152)	1:49:A:ILE:HG22	1:50:A:ALA:HA	4	0.16	0.02	0.16
(1,152)	1:49:A:ILE:HG23	1:50:A:ALA:HA	4	0.16	0.02	0.16
(1,482)	1:43:A:ILE:HG21	1:44:A:GLU:H	4	0.15	0.04	0.14
(1,482)	1:43:A:ILE:HG22	1:44:A:GLU:H	4	0.15	0.04	0.14
(1,482)	1:43:A:ILE:HG23	1:44:A:GLU:H	4	0.15	0.04	0.14
(1,486)	1:72:A:ILE:H	1:72:A:ILE:HD11	4	0.15	0.02	0.15
(1,486)	1:72:A:ILE:H	1:72:A:ILE:HD12	4	0.15	0.02	0.15
(1,486)	1:72:A:ILE:H	1:72:A:ILE:HD13	4	0.15	0.02	0.15
(1,876)	1:64:A:LYS:H	1:64:A:LYS:HD2	4	0.12	0.02	0.12
(1,876)	1:64:A:LYS:H	1:64:A:LYS:HD3	4	0.12	0.02	0.12
(1,286)	1:85:A:VAL:H	1:98:A:ALA:HB1	4	0.12	0.01	0.11
(1,286)	1:85:A:VAL:H	1:98:A:ALA:HB2	4	0.12	0.01	0.11
(1,286)	1:85:A:VAL:H	1:98:A:ALA:HB3	4	0.12	0.01	0.11
(1,703)	1:60:A:ALA:H	1:60:A:ALA:HA	4	0.11	0.01	0.11
(1,721)	1:108:A:ALA:HA	1:114:A:LEU:HD11	3	0.57	0.04	0.59
(1,721)	1:108:A:ALA:HA	1:114:A:LEU:HD12	3	0.57	0.04	0.59
(1,721)	1:108:A:ALA:HA	1:114:A:LEU:HD13	3	0.57	0.04	0.59
(1,721)	1:108:A:ALA:HA	1:114:A:LEU:HD21	3	0.57	0.04	0.59
(1,721)	1:108:A:ALA:HA	1:114:A:LEU:HD22	3	0.57	0.04	0.59
(1,721)	1:108:A:ALA:HA	1:114:A:LEU:HD23	3	0.57	0.04	0.59
(1,222)	1:136:A:LEU:HD11	1:138:A:GLY:H	3	0.4	0.15	0.3
(1,222)	1:136:A:LEU:HD12	1:138:A:GLY:H	3	0.4	0.15	0.3
(1,222)	1:136:A:LEU:HD13	1:138:A:GLY:H	3	0.4	0.15	0.3
(1,222)	1:136:A:LEU:HD21	1:138:A:GLY:H	3	0.4	0.15	0.3
(1,222)	1:136:A:LEU:HD22	1:138:A:GLY:H	3	0.4	0.15	0.3
(1,222)	1:136:A:LEU:HD23	1:138:A:GLY:H	3	0.4	0.15	0.3
(1,329)	1:45:A:ARG:HG2	1:65:A:ASP:HB2	3	0.31	0.12	0.37
(1,329)	1:45:A:ARG:HG3	1:65:A:ASP:HB2	3	0.31	0.12	0.37

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,359)	1:64:A:LYS:HB2	1:141:A:GLU:H	3	0.28	0.12	0.25
(1,359)	1:64:A:LYS:HB3	1:141:A:GLU:H	3	0.28	0.12	0.25
(1,285)	1:42:A:LEU:HB3	1:44:A:GLU:H	3	0.26	0.11	0.28
(1,797)	1:51:A:GLU:HB2	1:52:A:GLN:HE22	3	0.25	0.09	0.26
(1,797)	1:51:A:GLU:HB3	1:52:A:GLN:HE22	3	0.25	0.09	0.26
(1,1184)	1:135:A:SER:HB2	1:136:A:LEU:H	3	0.25	0.1	0.3
(1,1184)	1:135:A:SER:HB3	1:136:A:LEU:H	3	0.25	0.1	0.3
(1,1182)	1:130:A:LEU:HD11	1:131:A:GLY:HA2	3	0.24	0.11	0.23
(1,1182)	1:130:A:LEU:HD11	1:131:A:GLY:HA3	3	0.24	0.11	0.23
(1,1182)	1:130:A:LEU:HD12	1:131:A:GLY:HA2	3	0.24	0.11	0.23
(1,1182)	1:130:A:LEU:HD12	1:131:A:GLY:HA3	3	0.24	0.11	0.23
(1,1182)	1:130:A:LEU:HD13	1:131:A:GLY:HA2	3	0.24	0.11	0.23
(1,1182)	1:130:A:LEU:HD13	1:131:A:GLY:HA3	3	0.24	0.11	0.23
(1,1182)	1:130:A:LEU:HD21	1:131:A:GLY:HA2	3	0.24	0.11	0.23
(1,1182)	1:130:A:LEU:HD21	1:131:A:GLY:HA3	3	0.24	0.11	0.23
(1,1182)	1:130:A:LEU:HD22	1:131:A:GLY:HA2	3	0.24	0.11	0.23
(1,1182)	1:130:A:LEU:HD22	1:131:A:GLY:HA3	3	0.24	0.11	0.23
(1,1182)	1:130:A:LEU:HD23	1:131:A:GLY:HA2	3	0.24	0.11	0.23
(1,1182)	1:130:A:LEU:HD23	1:131:A:GLY:HA3	3	0.24	0.11	0.23
(1,1045)	1:66:A:THR:HG21	1:147:A:VAL:HG11	3	0.23	0.07	0.25
(1,1045)	1:66:A:THR:HG21	1:147:A:VAL:HG12	3	0.23	0.07	0.25
(1,1045)	1:66:A:THR:HG21	1:147:A:VAL:HG13	3	0.23	0.07	0.25
(1,1045)	1:66:A:THR:HG22	1:147:A:VAL:HG11	3	0.23	0.07	0.25
(1,1045)	1:66:A:THR:HG22	1:147:A:VAL:HG12	3	0.23	0.07	0.25
(1,1045)	1:66:A:THR:HG22	1:147:A:VAL:HG13	3	0.23	0.07	0.25
(1,1045)	1:66:A:THR:HG23	1:147:A:VAL:HG11	3	0.23	0.07	0.25
(1,1045)	1:66:A:THR:HG23	1:147:A:VAL:HG12	3	0.23	0.07	0.25
(1,1045)	1:66:A:THR:HG23	1:147:A:VAL:HG13	3	0.23	0.07	0.25
(1,205)	1:119:A:GLU:HB2	1:121:A:ASP:HB2	3	0.22	0.03	0.22
(1,205)	1:119:A:GLU:HB2	1:121:A:ASP:HB3	3	0.22	0.03	0.22
(1,205)	1:119:A:GLU:HB3	1:121:A:ASP:HB2	3	0.22	0.03	0.22
(1,205)	1:119:A:GLU:HB3	1:121:A:ASP:HB3	3	0.22	0.03	0.22
(1,29)	1:87:A:PHE:HE1	1:96:A:ALA:H	3	0.21	0.08	0.2
(1,29)	1:87:A:PHE:HE2	1:96:A:ALA:H	3	0.21	0.08	0.2
(1,264)	1:83:A:ARG:H	1:154:A:GLU:HB2	3	0.2	0.08	0.17
(1,264)	1:83:A:ARG:H	1:154:A:GLU:HB3	3	0.2	0.08	0.17
(1,618)	1:162:A:LEU:HB2	1:163:A:ARG:H	3	0.19	0.05	0.22
(1,618)	1:162:A:LEU:HB3	1:163:A:ARG:H	3	0.19	0.05	0.22
(1,114)	1:118:A:THR:H	1:119:A:GLU:HB2	3	0.18	0.08	0.15
(1,114)	1:118:A:THR:H	1:119:A:GLU:HB3	3	0.18	0.08	0.15
(1,158)	1:97:A:HIS:HB3	1:131:A:GLY:H	3	0.18	0.1	0.12
(1,1095)	1:68:A:VAL:HG11	1:71:A:ARG:HD2	3	0.18	0.05	0.15

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1095)	1:68:A:VAL:HG11	1:71:A:ARG:HD3	3	0.18	0.05	0.15
(1,1095)	1:68:A:VAL:HG12	1:71:A:ARG:HD2	3	0.18	0.05	0.15
(1,1095)	1:68:A:VAL:HG12	1:71:A:ARG:HD3	3	0.18	0.05	0.15
(1,1095)	1:68:A:VAL:HG13	1:71:A:ARG:HD2	3	0.18	0.05	0.15
(1,1095)	1:68:A:VAL:HG13	1:71:A:ARG:HD3	3	0.18	0.05	0.15
(1,1095)	1:68:A:VAL:HG21	1:71:A:ARG:HD2	3	0.18	0.05	0.15
(1,1095)	1:68:A:VAL:HG21	1:71:A:ARG:HD3	3	0.18	0.05	0.15
(1,1095)	1:68:A:VAL:HG22	1:71:A:ARG:HD2	3	0.18	0.05	0.15
(1,1095)	1:68:A:VAL:HG22	1:71:A:ARG:HD3	3	0.18	0.05	0.15
(1,1095)	1:68:A:VAL:HG23	1:71:A:ARG:HD2	3	0.18	0.05	0.15
(1,1095)	1:68:A:VAL:HG23	1:71:A:ARG:HD3	3	0.18	0.05	0.15
(1,214)	1:98:A:ALA:H	1:103:A:LEU:H	3	0.18	0.04	0.21
(1,847)	1:60:A:ALA:HB1	1:68:A:VAL:H	3	0.18	0.03	0.16
(1,847)	1:60:A:ALA:HB2	1:68:A:VAL:H	3	0.18	0.03	0.16
(1,847)	1:60:A:ALA:HB3	1:68:A:VAL:H	3	0.18	0.03	0.16
(1,699)	1:90:A:ALA:HB1	1:147:A:VAL:HB	3	0.17	0.02	0.16
(1,699)	1:90:A:ALA:HB2	1:147:A:VAL:HB	3	0.17	0.02	0.16
(1,699)	1:90:A:ALA:HB3	1:147:A:VAL:HB	3	0.17	0.02	0.16
(1,831)	1:138:A:GLY:H	1:139:A:ALA:H	3	0.17	0.02	0.17
(1,958)	1:85:A:VAL:HG11	1:152:A:GLU:H	3	0.17	0.01	0.17
(1,958)	1:85:A:VAL:HG12	1:152:A:GLU:H	3	0.17	0.01	0.17
(1,958)	1:85:A:VAL:HG13	1:152:A:GLU:H	3	0.17	0.01	0.17
(1,767)	1:89:A:ASP:H	1:93:A:GLU:HG2	3	0.16	0.04	0.16
(1,767)	1:89:A:ASP:H	1:93:A:GLU:HG3	3	0.16	0.04	0.16
(1,761)	1:148:A:LEU:HA	1:148:A:LEU:HG	3	0.15	0.02	0.15
(1,271)	1:94:A:ARG:H	1:94:A:ARG:HG2	3	0.15	0.03	0.13
(1,271)	1:94:A:ARG:H	1:94:A:ARG:HG3	3	0.15	0.03	0.13
(1,779)	1:88:A:LEU:HA	1:96:A:ALA:H	3	0.14	0.01	0.14
(1,31)	1:86:A:THR:HB	1:97:A:HIS:HB3	3	0.14	0.0	0.14
(1,749)	1:138:A:GLY:HA2	1:140:A:THR:HG21	3	0.14	0.04	0.12
(1,749)	1:138:A:GLY:HA2	1:140:A:THR:HG22	3	0.14	0.04	0.12
(1,749)	1:138:A:GLY:HA2	1:140:A:THR:HG23	3	0.14	0.04	0.12
(1,57)	1:69:A:LEU:H	1:70:A:ASN:HB2	3	0.13	0.04	0.11
(1,116)	1:90:A:ALA:H	1:93:A:GLU:H	3	0.13	0.01	0.14
(1,722)	1:56:A:LEU:HG	1:57:A:ALA:HB1	3	0.11	0.01	0.11
(1,722)	1:56:A:LEU:HG	1:57:A:ALA:HB2	3	0.11	0.01	0.11
(1,722)	1:56:A:LEU:HG	1:57:A:ALA:HB3	3	0.11	0.01	0.11
(1,1114)	1:77:A:LEU:HD11	1:83:A:ARG:H	2	0.91	0.24	0.91
(1,1114)	1:77:A:LEU:HD12	1:83:A:ARG:H	2	0.91	0.24	0.91
(1,1114)	1:77:A:LEU:HD13	1:83:A:ARG:H	2	0.91	0.24	0.91
(1,1114)	1:77:A:LEU:HD21	1:83:A:ARG:H	2	0.91	0.24	0.91
(1,1114)	1:77:A:LEU:HD22	1:83:A:ARG:H	2	0.91	0.24	0.91

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1114)	1:77:A:LEU:HD23	1:83:A:ARG:H	2	0.91	0.24	0.91
(1,96)	1:96:A:ALA:H	1:97:A:HIS:HD2	2	0.7	0.29	0.7
(1,534)	1:84:A:ALA:HB1	1:132:A:ARG:HE	2	0.65	0.44	0.65
(1,534)	1:84:A:ALA:HB2	1:132:A:ARG:HE	2	0.65	0.44	0.65
(1,534)	1:84:A:ALA:HB3	1:132:A:ARG:HE	2	0.65	0.44	0.65
(1,405)	1:103:A:LEU:HG	1:105:A:VAL:H	2	0.61	0.15	0.61
(1,989)	1:119:A:GLU:HG2	1:122:A:THR:H	2	0.6	0.09	0.6
(1,989)	1:119:A:GLU:HG3	1:122:A:THR:H	2	0.6	0.09	0.6
(1,255)	1:94:A:ARG:HB2	1:94:A:ARG:HH21	2	0.59	0.14	0.59
(1,255)	1:94:A:ARG:HB2	1:94:A:ARG:HH22	2	0.59	0.14	0.59
(1,255)	1:94:A:ARG:HB3	1:94:A:ARG:HH21	2	0.59	0.14	0.59
(1,255)	1:94:A:ARG:HB3	1:94:A:ARG:HH22	2	0.59	0.14	0.59
(1,1115)	1:77:A:LEU:HD11	1:84:A:ALA:H	2	0.53	0.12	0.53
(1,1115)	1:77:A:LEU:HD12	1:84:A:ALA:H	2	0.53	0.12	0.53
(1,1115)	1:77:A:LEU:HD13	1:84:A:ALA:H	2	0.53	0.12	0.53
(1,1115)	1:77:A:LEU:HD21	1:84:A:ALA:H	2	0.53	0.12	0.53
(1,1115)	1:77:A:LEU:HD22	1:84:A:ALA:H	2	0.53	0.12	0.53
(1,1115)	1:77:A:LEU:HD23	1:84:A:ALA:H	2	0.53	0.12	0.53
(1,1041)	1:81:A:ASP:HA	1:164:A:GLY:HA2	2	0.51	0.02	0.51
(1,1041)	1:81:A:ASP:HA	1:164:A:GLY:HA3	2	0.51	0.02	0.51
(1,176)	1:158:A:HIS:H	1:162:A:LEU:HD11	2	0.5	0.09	0.5
(1,176)	1:158:A:HIS:H	1:162:A:LEU:HD12	2	0.5	0.09	0.5
(1,176)	1:158:A:HIS:H	1:162:A:LEU:HD13	2	0.5	0.09	0.5
(1,176)	1:158:A:HIS:H	1:162:A:LEU:HD21	2	0.5	0.09	0.5
(1,176)	1:158:A:HIS:H	1:162:A:LEU:HD22	2	0.5	0.09	0.5
(1,176)	1:158:A:HIS:H	1:162:A:LEU:HD23	2	0.5	0.09	0.5
(1,95)	1:81:A:ASP:HB2	1:163:A:ARG:HH11	2	0.44	0.31	0.44
(1,95)	1:81:A:ASP:HB2	1:163:A:ARG:HH12	2	0.44	0.31	0.44
(1,59)	1:47:A:GLN:HG2	1:52:A:GLN:HE21	2	0.34	0.06	0.34
(1,59)	1:47:A:GLN:HG3	1:52:A:GLN:HE21	2	0.34	0.06	0.34
(1,330)	1:163:A:ARG:HG2	1:164:A:GLY:H	2	0.34	0.06	0.34
(1,330)	1:163:A:ARG:HG3	1:164:A:GLY:H	2	0.34	0.06	0.34
(1,816)	1:51:A:GLU:HB2	1:52:A:GLN:HE21	2	0.34	0.18	0.34
(1,816)	1:51:A:GLU:HB3	1:52:A:GLN:HE21	2	0.34	0.18	0.34
(1,994)	1:45:A:ARG:HG2	1:60:A:ALA:H	2	0.33	0.01	0.33
(1,994)	1:45:A:ARG:HG3	1:60:A:ALA:H	2	0.33	0.01	0.33
(1,223)	1:111:A:ALA:H	1:114:A:LEU:H	2	0.3	0.0	0.3
(1,390)	1:95:A:LEU:HA	1:120:A:LEU:HD11	2	0.28	0.03	0.28
(1,390)	1:95:A:LEU:HA	1:120:A:LEU:HD12	2	0.28	0.03	0.28
(1,390)	1:95:A:LEU:HA	1:120:A:LEU:HD13	2	0.28	0.03	0.28
(1,390)	1:95:A:LEU:HA	1:120:A:LEU:HD21	2	0.28	0.03	0.28
(1,390)	1:95:A:LEU:HA	1:120:A:LEU:HD22	2	0.28	0.03	0.28

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,390)	1:95:A:LEU:HA	1:120:A:LEU:HD23	2	0.28	0.03	0.28
(1,569)	1:108:A:ALA:HB1	1:109:A:GLY:H	2	0.26	0.15	0.26
(1,569)	1:108:A:ALA:HB2	1:109:A:GLY:H	2	0.26	0.15	0.26
(1,569)	1:108:A:ALA:HB3	1:109:A:GLY:H	2	0.26	0.15	0.26
(1,34)	1:88:A:LEU:H	1:150:A:TRP:HH2	2	0.23	0.08	0.23
(1,118)	1:86:A:THR:HB	1:151:A:VAL:HA	2	0.2	0.02	0.2
(1,424)	1:70:A:ASN:HA	1:74:A:ASN:HD21	2	0.2	0.01	0.2
(1,103)	1:81:A:ASP:H	1:163:A:ARG:HH11	2	0.2	0.04	0.2
(1,103)	1:81:A:ASP:H	1:163:A:ARG:HH12	2	0.2	0.04	0.2
(1,282)	1:60:A:ALA:HB1	1:65:A:ASP:HB3	2	0.2	0.04	0.2
(1,282)	1:60:A:ALA:HB2	1:65:A:ASP:HB3	2	0.2	0.04	0.2
(1,282)	1:60:A:ALA:HB3	1:65:A:ASP:HB3	2	0.2	0.04	0.2
(1,892)	1:67:A:ALA:H	1:146:A:ARG:HE	2	0.2	0.09	0.2
(1,105)	1:87:A:PHE:HB3	1:151:A:VAL:HA	2	0.19	0.0	0.19
(1,200)	1:49:A:ILE:HD11	1:50:A:ALA:H	2	0.19	0.07	0.19
(1,200)	1:49:A:ILE:HD12	1:50:A:ALA:H	2	0.19	0.07	0.19
(1,200)	1:49:A:ILE:HD13	1:50:A:ALA:H	2	0.19	0.07	0.19
(1,38)	1:93:A:GLU:H	1:123:A:THR:HG21	2	0.18	0.04	0.18
(1,38)	1:93:A:GLU:H	1:123:A:THR:HG22	2	0.18	0.04	0.18
(1,38)	1:93:A:GLU:H	1:123:A:THR:HG23	2	0.18	0.04	0.18
(1,302)	1:57:A:ALA:H	1:158:A:HIS:HD2	2	0.18	0.04	0.18
(1,342)	1:135:A:SER:HB2	1:136:A:LEU:H	2	0.18	0.06	0.18
(1,352)	1:74:A:ASN:HB2	1:75:A:GLU:H	2	0.17	0.06	0.17
(1,3)	1:68:A:VAL:H	1:69:A:LEU:HD21	2	0.16	0.02	0.16
(1,3)	1:68:A:VAL:H	1:69:A:LEU:HD22	2	0.16	0.02	0.16
(1,3)	1:68:A:VAL:H	1:69:A:LEU:HD23	2	0.16	0.02	0.16
(1,193)	1:76:A:ALA:HA	1:79:A:GLN:HE22	2	0.16	0.04	0.16
(1,561)	1:162:A:LEU:HA	1:162:A:LEU:HD11	2	0.16	0.03	0.16
(1,561)	1:162:A:LEU:HA	1:162:A:LEU:HD12	2	0.16	0.03	0.16
(1,561)	1:162:A:LEU:HA	1:162:A:LEU:HD13	2	0.16	0.03	0.16
(1,561)	1:162:A:LEU:HA	1:162:A:LEU:HD21	2	0.16	0.03	0.16
(1,561)	1:162:A:LEU:HA	1:162:A:LEU:HD22	2	0.16	0.03	0.16
(1,561)	1:162:A:LEU:HA	1:162:A:LEU:HD23	2	0.16	0.03	0.16
(1,728)	1:61:A:LEU:HA	1:61:A:LEU:HD11	2	0.16	0.02	0.16
(1,728)	1:61:A:LEU:HA	1:61:A:LEU:HD12	2	0.16	0.02	0.16
(1,728)	1:61:A:LEU:HA	1:61:A:LEU:HD13	2	0.16	0.02	0.16
(1,972)	1:86:A:THR:HG21	1:87:A:PHE:HA	2	0.15	0.05	0.15
(1,972)	1:86:A:THR:HG22	1:87:A:PHE:HA	2	0.15	0.05	0.15
(1,972)	1:86:A:THR:HG23	1:87:A:PHE:HA	2	0.15	0.05	0.15
(1,543)	1:139:A:ALA:H	1:140:A:THR:HB	2	0.15	0.04	0.15
(1,810)	1:76:A:ALA:HB1	1:79:A:GLN:H	2	0.15	0.0	0.15
(1,810)	1:76:A:ALA:HB2	1:79:A:GLN:H	2	0.15	0.0	0.15

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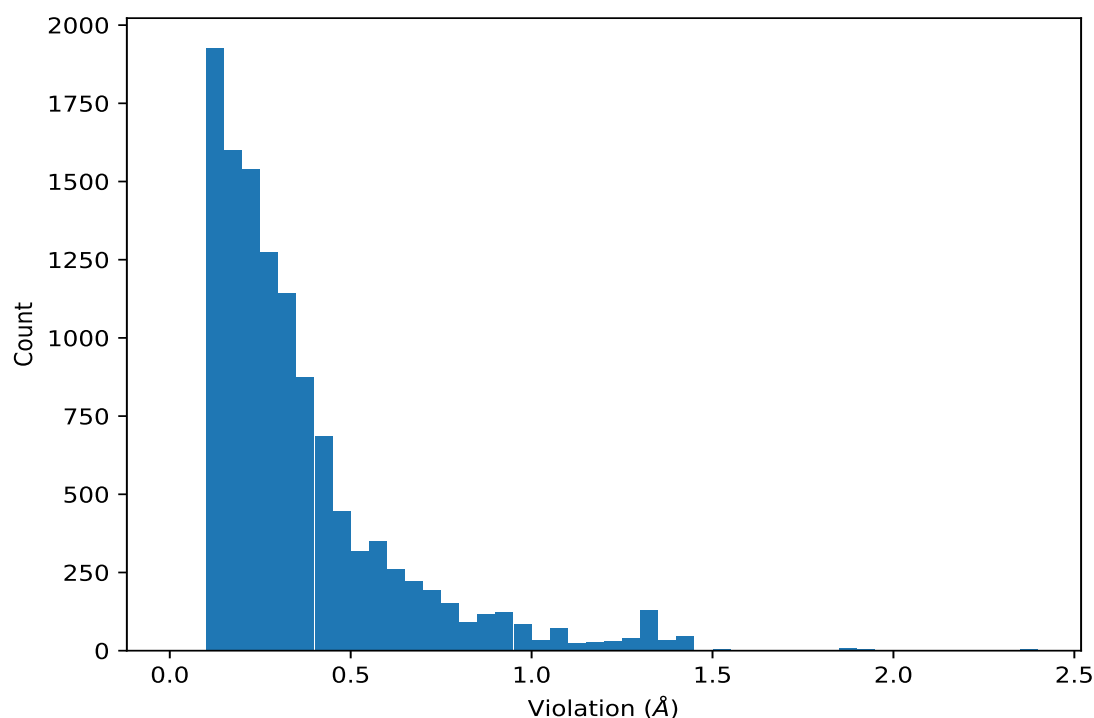
Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,810)	1:76:A:ALA:HB3	1:79:A:GLN:H	2	0.15	0.0	0.15
(1,835)	1:90:A:ALA:H	1:147:A:VAL:HG11	2	0.15	0.04	0.15
(1,835)	1:90:A:ALA:H	1:147:A:VAL:HG12	2	0.15	0.04	0.15
(1,835)	1:90:A:ALA:H	1:147:A:VAL:HG13	2	0.15	0.04	0.15
(1,164)	1:58:A:ALA:HA	1:62:A:ALA:H	2	0.14	0.03	0.14
(1,217)	1:66:A:THR:HA	1:87:A:PHE:HE1	2	0.14	0.02	0.14
(1,217)	1:66:A:THR:HA	1:87:A:PHE:HE2	2	0.14	0.02	0.14
(1,235)	1:132:A:ARG:H	1:132:A:ARG:HD2	2	0.14	0.01	0.14
(1,235)	1:132:A:ARG:H	1:132:A:ARG:HD3	2	0.14	0.01	0.14
(1,254)	1:82:A:VAL:HG11	1:154:A:GLU:HA	2	0.13	0.01	0.13
(1,254)	1:82:A:VAL:HG12	1:154:A:GLU:HA	2	0.13	0.01	0.13
(1,254)	1:82:A:VAL:HG13	1:154:A:GLU:HA	2	0.13	0.01	0.13
(1,254)	1:82:A:VAL:HG21	1:154:A:GLU:HA	2	0.13	0.01	0.13
(1,254)	1:82:A:VAL:HG22	1:154:A:GLU:HA	2	0.13	0.01	0.13
(1,254)	1:82:A:VAL:HG23	1:154:A:GLU:HA	2	0.13	0.01	0.13
(1,1101)	1:72:A:ILE:H	1:77:A:LEU:HD11	2	0.12	0.01	0.12
(1,1101)	1:72:A:ILE:H	1:77:A:LEU:HD12	2	0.12	0.01	0.12
(1,1101)	1:72:A:ILE:H	1:77:A:LEU:HD13	2	0.12	0.01	0.12
(1,1101)	1:72:A:ILE:H	1:77:A:LEU:HD21	2	0.12	0.01	0.12
(1,1101)	1:72:A:ILE:H	1:77:A:LEU:HD22	2	0.12	0.01	0.12
(1,1101)	1:72:A:ILE:H	1:77:A:LEU:HD23	2	0.12	0.01	0.12
(1,126)	1:68:A:VAL:HG21	1:70:A:ASN:H	2	0.12	0.01	0.12
(1,126)	1:68:A:VAL:HG22	1:70:A:ASN:H	2	0.12	0.01	0.12
(1,126)	1:68:A:VAL:HG23	1:70:A:ASN:H	2	0.12	0.01	0.12
(1,410)	1:104:A:THR:HA	1:106:A:ALA:H	2	0.11	0.0	0.11

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

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

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

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



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

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

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,633)	1:106:A:ALA:HA	1:114:A:LEU:HD11	12	2.36
(1,633)	1:106:A:ALA:HA	1:114:A:LEU:HD12	12	2.36
(1,633)	1:106:A:ALA:HA	1:114:A:LEU:HD13	12	2.36
(1,633)	1:106:A:ALA:HA	1:114:A:LEU:HD21	12	2.36
(1,633)	1:106:A:ALA:HA	1:114:A:LEU:HD22	12	2.36
(1,633)	1:106:A:ALA:HA	1:114:A:LEU:HD23	12	2.36
(1,334)	1:47:A:GLN:HE21	1:52:A:GLN:HB2	17	2.05
(1,334)	1:47:A:GLN:HE21	1:52:A:GLN:HB3	17	2.05
(1,737)	1:47:A:GLN:HE21	1:52:A:GLN:HE21	20	1.96
(1,737)	1:47:A:GLN:HE21	1:52:A:GLN:HE21	17	1.95
(1,633)	1:106:A:ALA:HA	1:114:A:LEU:HD11	10	1.91
(1,633)	1:106:A:ALA:HA	1:114:A:LEU:HD12	10	1.91
(1,633)	1:106:A:ALA:HA	1:114:A:LEU:HD13	10	1.91
(1,633)	1:106:A:ALA:HA	1:114:A:LEU:HD21	10	1.91
(1,633)	1:106:A:ALA:HA	1:114:A:LEU:HD22	10	1.91
(1,633)	1:106:A:ALA:HA	1:114:A:LEU:HD23	10	1.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,737)	1:47:A:GLN:HE21	1:52:A:GLN:HE21	6	1.86
(1,737)	1:47:A:GLN:HE21	1:52:A:GLN:HE21	13	1.86
(1,633)	1:106:A:ALA:HA	1:114:A:LEU:HD11	19	1.85
(1,633)	1:106:A:ALA:HA	1:114:A:LEU:HD12	19	1.85
(1,633)	1:106:A:ALA:HA	1:114:A:LEU:HD13	19	1.85
(1,633)	1:106:A:ALA:HA	1:114:A:LEU:HD21	19	1.85
(1,633)	1:106:A:ALA:HA	1:114:A:LEU:HD22	19	1.85
(1,633)	1:106:A:ALA:HA	1:114:A:LEU:HD23	19	1.85
(1,737)	1:47:A:GLN:HE21	1:52:A:GLN:HE21	14	1.76
(1,125)	1:94:A:ARG:HH21	1:104:A:THR:HB	18	1.66
(1,125)	1:94:A:ARG:HH22	1:104:A:THR:HB	18	1.66
(1,60)	1:47:A:GLN:HE22	1:52:A:GLN:H	17	1.63
(1,737)	1:47:A:GLN:HE21	1:52:A:GLN:HE21	15	1.58
(1,39)	1:121:A:ASP:H	1:123:A:THR:H	6	1.57
(1,39)	1:121:A:ASP:H	1:123:A:THR:H	14	1.57
(1,60)	1:47:A:GLN:HE22	1:52:A:GLN:H	9	1.53
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD11	9	1.51
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD12	9	1.51
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD13	9	1.51
(1,202)	1:163:A:ARG:HE	1:164:A:GLY:H	15	1.46
(1,773)	1:87:A:PHE:HZ	1:98:A:ALA:H	5	1.45
(1,447)	1:162:A:LEU:HD11	1:163:A:ARG:HH11	20	1.44
(1,447)	1:162:A:LEU:HD11	1:163:A:ARG:HH12	20	1.44
(1,447)	1:162:A:LEU:HD12	1:163:A:ARG:HH11	20	1.44
(1,447)	1:162:A:LEU:HD12	1:163:A:ARG:HH12	20	1.44
(1,447)	1:162:A:LEU:HD13	1:163:A:ARG:HH11	20	1.44
(1,447)	1:162:A:LEU:HD13	1:163:A:ARG:HH12	20	1.44
(1,447)	1:162:A:LEU:HD21	1:163:A:ARG:HH11	20	1.44
(1,447)	1:162:A:LEU:HD21	1:163:A:ARG:HH12	20	1.44
(1,447)	1:162:A:LEU:HD22	1:163:A:ARG:HH11	20	1.44
(1,447)	1:162:A:LEU:HD22	1:163:A:ARG:HH12	20	1.44
(1,447)	1:162:A:LEU:HD23	1:163:A:ARG:HH11	20	1.44
(1,447)	1:162:A:LEU:HD23	1:163:A:ARG:HH12	20	1.44
(1,13)	1:47:A:GLN:HE21	1:52:A:GLN:HG2	13	1.44
(1,13)	1:47:A:GLN:HE21	1:52:A:GLN:HG3	13	1.44
(1,1118)	1:77:A:LEU:HD11	1:87:A:PHE:HE1	5	1.43
(1,1118)	1:77:A:LEU:HD11	1:87:A:PHE:HE2	5	1.43
(1,1118)	1:77:A:LEU:HD12	1:87:A:PHE:HE1	5	1.43
(1,1118)	1:77:A:LEU:HD12	1:87:A:PHE:HE2	5	1.43
(1,1118)	1:77:A:LEU:HD13	1:87:A:PHE:HE1	5	1.43
(1,1118)	1:77:A:LEU:HD13	1:87:A:PHE:HE2	5	1.43
(1,1118)	1:77:A:LEU:HD21	1:87:A:PHE:HE1	5	1.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1118)	1:77:A:LEU:HD21	1:87:A:PHE:HE2	5	1.43
(1,1118)	1:77:A:LEU:HD22	1:87:A:PHE:HE1	5	1.43
(1,1118)	1:77:A:LEU:HD22	1:87:A:PHE:HE2	5	1.43
(1,1118)	1:77:A:LEU:HD23	1:87:A:PHE:HE1	5	1.43
(1,1118)	1:77:A:LEU:HD23	1:87:A:PHE:HE2	5	1.43
(1,952)	1:89:A:ASP:HA	1:95:A:LEU:HG	11	1.42
(1,773)	1:87:A:PHE:HZ	1:98:A:ALA:H	15	1.42
(1,1118)	1:77:A:LEU:HD11	1:87:A:PHE:HE1	17	1.41
(1,1118)	1:77:A:LEU:HD11	1:87:A:PHE:HE2	17	1.41
(1,1118)	1:77:A:LEU:HD12	1:87:A:PHE:HE1	17	1.41
(1,1118)	1:77:A:LEU:HD12	1:87:A:PHE:HE2	17	1.41
(1,1118)	1:77:A:LEU:HD13	1:87:A:PHE:HE1	17	1.41
(1,1118)	1:77:A:LEU:HD13	1:87:A:PHE:HE2	17	1.41
(1,1118)	1:77:A:LEU:HD21	1:87:A:PHE:HE1	17	1.41
(1,1118)	1:77:A:LEU:HD21	1:87:A:PHE:HE2	17	1.41
(1,1118)	1:77:A:LEU:HD22	1:87:A:PHE:HE1	17	1.41
(1,1118)	1:77:A:LEU:HD22	1:87:A:PHE:HE2	17	1.41
(1,1118)	1:77:A:LEU:HD23	1:87:A:PHE:HE1	17	1.41
(1,1118)	1:77:A:LEU:HD23	1:87:A:PHE:HE2	17	1.41
(1,773)	1:87:A:PHE:HZ	1:98:A:ALA:H	4	1.41
(1,535)	1:110:A:ASP:HB2	1:112:A:SER:H	12	1.41
(1,535)	1:110:A:ASP:HB3	1:112:A:SER:H	12	1.41
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD11	17	1.41
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD12	17	1.41
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD13	17	1.41
(1,773)	1:87:A:PHE:HZ	1:98:A:ALA:H	12	1.39
(1,1118)	1:77:A:LEU:HD11	1:87:A:PHE:HE1	6	1.38
(1,1118)	1:77:A:LEU:HD11	1:87:A:PHE:HE2	6	1.38
(1,1118)	1:77:A:LEU:HD12	1:87:A:PHE:HE1	6	1.38
(1,1118)	1:77:A:LEU:HD12	1:87:A:PHE:HE2	6	1.38
(1,1118)	1:77:A:LEU:HD13	1:87:A:PHE:HE1	6	1.38
(1,1118)	1:77:A:LEU:HD13	1:87:A:PHE:HE2	6	1.38
(1,1118)	1:77:A:LEU:HD21	1:87:A:PHE:HE1	6	1.38
(1,1118)	1:77:A:LEU:HD21	1:87:A:PHE:HE2	6	1.38
(1,1118)	1:77:A:LEU:HD22	1:87:A:PHE:HE1	6	1.38
(1,1118)	1:77:A:LEU:HD22	1:87:A:PHE:HE2	6	1.38
(1,1118)	1:77:A:LEU:HD23	1:87:A:PHE:HE1	6	1.38
(1,1118)	1:77:A:LEU:HD23	1:87:A:PHE:HE2	6	1.38
(1,773)	1:87:A:PHE:HZ	1:98:A:ALA:H	14	1.38
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD11	19	1.37
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD12	19	1.37
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD13	19	1.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,773)	1:87:A:PHE:HZ	1:98:A:ALA:H	2	1.36
(1,535)	1:110:A:ASP:HB2	1:112:A:SER:H	19	1.36
(1,535)	1:110:A:ASP:HB3	1:112:A:SER:H	19	1.36
(1,1118)	1:77:A:LEU:HD11	1:87:A:PHE:HE1	4	1.35
(1,1118)	1:77:A:LEU:HD11	1:87:A:PHE:HE2	4	1.35
(1,1118)	1:77:A:LEU:HD12	1:87:A:PHE:HE1	4	1.35
(1,1118)	1:77:A:LEU:HD12	1:87:A:PHE:HE2	4	1.35
(1,1118)	1:77:A:LEU:HD13	1:87:A:PHE:HE1	4	1.35
(1,1118)	1:77:A:LEU:HD13	1:87:A:PHE:HE2	4	1.35
(1,1118)	1:77:A:LEU:HD21	1:87:A:PHE:HE1	4	1.35
(1,1118)	1:77:A:LEU:HD21	1:87:A:PHE:HE2	4	1.35
(1,1118)	1:77:A:LEU:HD22	1:87:A:PHE:HE1	4	1.35
(1,1118)	1:77:A:LEU:HD22	1:87:A:PHE:HE2	4	1.35
(1,1118)	1:77:A:LEU:HD23	1:87:A:PHE:HE1	4	1.35
(1,1118)	1:77:A:LEU:HD23	1:87:A:PHE:HE2	4	1.35
(1,773)	1:87:A:PHE:HZ	1:98:A:ALA:H	1	1.35
(1,773)	1:87:A:PHE:HZ	1:98:A:ALA:H	6	1.35
(1,1118)	1:77:A:LEU:HD11	1:87:A:PHE:HE1	11	1.34
(1,1118)	1:77:A:LEU:HD11	1:87:A:PHE:HE2	11	1.34
(1,1118)	1:77:A:LEU:HD12	1:87:A:PHE:HE1	11	1.34
(1,1118)	1:77:A:LEU:HD12	1:87:A:PHE:HE2	11	1.34
(1,1118)	1:77:A:LEU:HD13	1:87:A:PHE:HE1	11	1.34
(1,1118)	1:77:A:LEU:HD13	1:87:A:PHE:HE2	11	1.34
(1,1118)	1:77:A:LEU:HD21	1:87:A:PHE:HE1	11	1.34
(1,1118)	1:77:A:LEU:HD21	1:87:A:PHE:HE2	11	1.34
(1,1118)	1:77:A:LEU:HD22	1:87:A:PHE:HE1	11	1.34
(1,1118)	1:77:A:LEU:HD22	1:87:A:PHE:HE2	11	1.34
(1,1118)	1:77:A:LEU:HD23	1:87:A:PHE:HE1	11	1.34
(1,1118)	1:77:A:LEU:HD23	1:87:A:PHE:HE2	11	1.34
(1,1118)	1:77:A:LEU:HD11	1:87:A:PHE:HE1	3	1.33
(1,1118)	1:77:A:LEU:HD11	1:87:A:PHE:HE2	3	1.33
(1,1118)	1:77:A:LEU:HD12	1:87:A:PHE:HE1	3	1.33
(1,1118)	1:77:A:LEU:HD12	1:87:A:PHE:HE2	3	1.33
(1,1118)	1:77:A:LEU:HD13	1:87:A:PHE:HE1	3	1.33
(1,1118)	1:77:A:LEU:HD13	1:87:A:PHE:HE2	3	1.33
(1,1118)	1:77:A:LEU:HD21	1:87:A:PHE:HE1	3	1.33
(1,1118)	1:77:A:LEU:HD21	1:87:A:PHE:HE2	3	1.33
(1,1118)	1:77:A:LEU:HD22	1:87:A:PHE:HE1	3	1.33
(1,1118)	1:77:A:LEU:HD22	1:87:A:PHE:HE2	3	1.33
(1,1118)	1:77:A:LEU:HD23	1:87:A:PHE:HE1	3	1.33
(1,1118)	1:77:A:LEU:HD23	1:87:A:PHE:HE2	3	1.33
(1,1118)	1:77:A:LEU:HD11	1:87:A:PHE:HE1	9	1.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1118)	1:77:A:LEU:HD11	1:87:A:PHE:HE2	9	1.33
(1,1118)	1:77:A:LEU:HD12	1:87:A:PHE:HE1	9	1.33
(1,1118)	1:77:A:LEU:HD12	1:87:A:PHE:HE2	9	1.33
(1,1118)	1:77:A:LEU:HD13	1:87:A:PHE:HE1	9	1.33
(1,1118)	1:77:A:LEU:HD13	1:87:A:PHE:HE2	9	1.33
(1,1118)	1:77:A:LEU:HD21	1:87:A:PHE:HE1	9	1.33
(1,1118)	1:77:A:LEU:HD21	1:87:A:PHE:HE2	9	1.33
(1,1118)	1:77:A:LEU:HD22	1:87:A:PHE:HE1	9	1.33
(1,1118)	1:77:A:LEU:HD22	1:87:A:PHE:HE2	9	1.33
(1,1118)	1:77:A:LEU:HD23	1:87:A:PHE:HE1	9	1.33
(1,1118)	1:77:A:LEU:HD23	1:87:A:PHE:HE2	9	1.33
(1,773)	1:87:A:PHE:HZ	1:98:A:ALA:H	9	1.33
(1,13)	1:47:A:GLN:HE21	1:52:A:GLN:HG2	14	1.33
(1,13)	1:47:A:GLN:HE21	1:52:A:GLN:HG3	14	1.33
(1,1118)	1:77:A:LEU:HD11	1:87:A:PHE:HE1	12	1.32
(1,1118)	1:77:A:LEU:HD11	1:87:A:PHE:HE2	12	1.32
(1,1118)	1:77:A:LEU:HD12	1:87:A:PHE:HE1	12	1.32
(1,1118)	1:77:A:LEU:HD12	1:87:A:PHE:HE2	12	1.32
(1,1118)	1:77:A:LEU:HD13	1:87:A:PHE:HE1	12	1.32
(1,1118)	1:77:A:LEU:HD13	1:87:A:PHE:HE2	12	1.32
(1,1118)	1:77:A:LEU:HD21	1:87:A:PHE:HE1	12	1.32
(1,1118)	1:77:A:LEU:HD21	1:87:A:PHE:HE2	12	1.32
(1,1118)	1:77:A:LEU:HD22	1:87:A:PHE:HE1	12	1.32
(1,1118)	1:77:A:LEU:HD22	1:87:A:PHE:HE2	12	1.32
(1,1118)	1:77:A:LEU:HD23	1:87:A:PHE:HE1	12	1.32
(1,1118)	1:77:A:LEU:HD23	1:87:A:PHE:HE2	12	1.32
(1,1118)	1:77:A:LEU:HD11	1:87:A:PHE:HE1	13	1.32
(1,1118)	1:77:A:LEU:HD11	1:87:A:PHE:HE2	13	1.32
(1,1118)	1:77:A:LEU:HD12	1:87:A:PHE:HE1	13	1.32
(1,1118)	1:77:A:LEU:HD12	1:87:A:PHE:HE2	13	1.32
(1,1118)	1:77:A:LEU:HD13	1:87:A:PHE:HE1	13	1.32
(1,1118)	1:77:A:LEU:HD13	1:87:A:PHE:HE2	13	1.32
(1,1118)	1:77:A:LEU:HD21	1:87:A:PHE:HE1	13	1.32
(1,1118)	1:77:A:LEU:HD21	1:87:A:PHE:HE2	13	1.32
(1,1118)	1:77:A:LEU:HD22	1:87:A:PHE:HE1	13	1.32
(1,1118)	1:77:A:LEU:HD22	1:87:A:PHE:HE2	13	1.32
(1,1118)	1:77:A:LEU:HD23	1:87:A:PHE:HE1	13	1.32
(1,1118)	1:77:A:LEU:HD23	1:87:A:PHE:HE2	13	1.32
(1,1118)	1:77:A:LEU:HD11	1:87:A:PHE:HE1	14	1.32
(1,1118)	1:77:A:LEU:HD11	1:87:A:PHE:HE2	14	1.32
(1,1118)	1:77:A:LEU:HD12	1:87:A:PHE:HE1	14	1.32
(1,1118)	1:77:A:LEU:HD12	1:87:A:PHE:HE2	14	1.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1118)	1:77:A:LEU:HD13	1:87:A:PHE:HE1	14	1.32
(1,1118)	1:77:A:LEU:HD13	1:87:A:PHE:HE2	14	1.32
(1,1118)	1:77:A:LEU:HD21	1:87:A:PHE:HE1	14	1.32
(1,1118)	1:77:A:LEU:HD21	1:87:A:PHE:HE2	14	1.32
(1,1118)	1:77:A:LEU:HD22	1:87:A:PHE:HE1	14	1.32
(1,1118)	1:77:A:LEU:HD22	1:87:A:PHE:HE2	14	1.32
(1,1118)	1:77:A:LEU:HD23	1:87:A:PHE:HE1	14	1.32
(1,1118)	1:77:A:LEU:HD23	1:87:A:PHE:HE2	14	1.32
(1,1118)	1:77:A:LEU:HD11	1:87:A:PHE:HE1	15	1.32
(1,1118)	1:77:A:LEU:HD11	1:87:A:PHE:HE2	15	1.32
(1,1118)	1:77:A:LEU:HD12	1:87:A:PHE:HE1	15	1.32
(1,1118)	1:77:A:LEU:HD12	1:87:A:PHE:HE2	15	1.32
(1,1118)	1:77:A:LEU:HD13	1:87:A:PHE:HE1	15	1.32
(1,1118)	1:77:A:LEU:HD13	1:87:A:PHE:HE2	15	1.32
(1,1118)	1:77:A:LEU:HD21	1:87:A:PHE:HE1	15	1.32
(1,1118)	1:77:A:LEU:HD21	1:87:A:PHE:HE2	15	1.32
(1,1118)	1:77:A:LEU:HD22	1:87:A:PHE:HE1	15	1.32
(1,1118)	1:77:A:LEU:HD22	1:87:A:PHE:HE2	15	1.32
(1,1118)	1:77:A:LEU:HD23	1:87:A:PHE:HE1	15	1.32
(1,1118)	1:77:A:LEU:HD23	1:87:A:PHE:HE2	15	1.32
(1,773)	1:87:A:PHE:HZ	1:98:A:ALA:H	17	1.32
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD11	11	1.32
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD12	11	1.32
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD13	11	1.32
(1,1118)	1:77:A:LEU:HD11	1:87:A:PHE:HE1	19	1.31
(1,1118)	1:77:A:LEU:HD11	1:87:A:PHE:HE2	19	1.31
(1,1118)	1:77:A:LEU:HD12	1:87:A:PHE:HE1	19	1.31
(1,1118)	1:77:A:LEU:HD12	1:87:A:PHE:HE2	19	1.31
(1,1118)	1:77:A:LEU:HD13	1:87:A:PHE:HE1	19	1.31
(1,1118)	1:77:A:LEU:HD13	1:87:A:PHE:HE2	19	1.31
(1,1118)	1:77:A:LEU:HD21	1:87:A:PHE:HE1	19	1.31
(1,1118)	1:77:A:LEU:HD21	1:87:A:PHE:HE2	19	1.31
(1,1118)	1:77:A:LEU:HD22	1:87:A:PHE:HE1	19	1.31
(1,1118)	1:77:A:LEU:HD22	1:87:A:PHE:HE2	19	1.31
(1,1118)	1:77:A:LEU:HD23	1:87:A:PHE:HE1	19	1.31
(1,1118)	1:77:A:LEU:HD23	1:87:A:PHE:HE2	19	1.31
(1,773)	1:87:A:PHE:HZ	1:98:A:ALA:H	13	1.31
(1,13)	1:47:A:GLN:HE21	1:52:A:GLN:HG2	20	1.31
(1,13)	1:47:A:GLN:HE21	1:52:A:GLN:HG3	20	1.31
(1,1118)	1:77:A:LEU:HD11	1:87:A:PHE:HE1	2	1.3
(1,1118)	1:77:A:LEU:HD11	1:87:A:PHE:HE2	2	1.3
(1,1118)	1:77:A:LEU:HD12	1:87:A:PHE:HE1	2	1.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1118)	1:77:A:LEU:HD12	1:87:A:PHE:HE2	2	1.3
(1,1118)	1:77:A:LEU:HD13	1:87:A:PHE:HE1	2	1.3
(1,1118)	1:77:A:LEU:HD13	1:87:A:PHE:HE2	2	1.3
(1,1118)	1:77:A:LEU:HD21	1:87:A:PHE:HE1	2	1.3
(1,1118)	1:77:A:LEU:HD21	1:87:A:PHE:HE2	2	1.3
(1,1118)	1:77:A:LEU:HD22	1:87:A:PHE:HE1	2	1.3
(1,1118)	1:77:A:LEU:HD22	1:87:A:PHE:HE2	2	1.3
(1,1118)	1:77:A:LEU:HD23	1:87:A:PHE:HE1	2	1.3
(1,1118)	1:77:A:LEU:HD23	1:87:A:PHE:HE2	2	1.3
(1,1118)	1:77:A:LEU:HD11	1:87:A:PHE:HE1	18	1.3
(1,1118)	1:77:A:LEU:HD11	1:87:A:PHE:HE2	18	1.3
(1,1118)	1:77:A:LEU:HD12	1:87:A:PHE:HE1	18	1.3
(1,1118)	1:77:A:LEU:HD12	1:87:A:PHE:HE2	18	1.3
(1,1118)	1:77:A:LEU:HD13	1:87:A:PHE:HE1	18	1.3
(1,1118)	1:77:A:LEU:HD13	1:87:A:PHE:HE2	18	1.3
(1,1118)	1:77:A:LEU:HD21	1:87:A:PHE:HE1	18	1.3
(1,1118)	1:77:A:LEU:HD21	1:87:A:PHE:HE2	18	1.3
(1,1118)	1:77:A:LEU:HD22	1:87:A:PHE:HE1	18	1.3
(1,1118)	1:77:A:LEU:HD22	1:87:A:PHE:HE2	18	1.3
(1,1118)	1:77:A:LEU:HD23	1:87:A:PHE:HE1	18	1.3
(1,1118)	1:77:A:LEU:HD23	1:87:A:PHE:HE2	18	1.3
(1,952)	1:89:A:ASP:HA	1:95:A:LEU:HG	9	1.3
(1,1118)	1:77:A:LEU:HD11	1:87:A:PHE:HE1	7	1.29
(1,1118)	1:77:A:LEU:HD11	1:87:A:PHE:HE2	7	1.29
(1,1118)	1:77:A:LEU:HD12	1:87:A:PHE:HE1	7	1.29
(1,1118)	1:77:A:LEU:HD12	1:87:A:PHE:HE2	7	1.29
(1,1118)	1:77:A:LEU:HD13	1:87:A:PHE:HE1	7	1.29
(1,1118)	1:77:A:LEU:HD13	1:87:A:PHE:HE2	7	1.29
(1,1118)	1:77:A:LEU:HD21	1:87:A:PHE:HE1	7	1.29
(1,1118)	1:77:A:LEU:HD21	1:87:A:PHE:HE2	7	1.29
(1,1118)	1:77:A:LEU:HD22	1:87:A:PHE:HE1	7	1.29
(1,1118)	1:77:A:LEU:HD22	1:87:A:PHE:HE2	7	1.29
(1,1118)	1:77:A:LEU:HD23	1:87:A:PHE:HE1	7	1.29
(1,1118)	1:77:A:LEU:HD23	1:87:A:PHE:HE2	7	1.29
(1,1118)	1:77:A:LEU:HD11	1:87:A:PHE:HE1	20	1.28
(1,1118)	1:77:A:LEU:HD11	1:87:A:PHE:HE2	20	1.28
(1,1118)	1:77:A:LEU:HD12	1:87:A:PHE:HE1	20	1.28
(1,1118)	1:77:A:LEU:HD12	1:87:A:PHE:HE2	20	1.28
(1,1118)	1:77:A:LEU:HD13	1:87:A:PHE:HE1	20	1.28
(1,1118)	1:77:A:LEU:HD13	1:87:A:PHE:HE2	20	1.28
(1,1118)	1:77:A:LEU:HD21	1:87:A:PHE:HE1	20	1.28
(1,1118)	1:77:A:LEU:HD21	1:87:A:PHE:HE2	20	1.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1118)	1:77:A:LEU:HD22	1:87:A:PHE:HE1	20	1.28
(1,1118)	1:77:A:LEU:HD22	1:87:A:PHE:HE2	20	1.28
(1,1118)	1:77:A:LEU:HD23	1:87:A:PHE:HE1	20	1.28
(1,1118)	1:77:A:LEU:HD23	1:87:A:PHE:HE2	20	1.28
(1,952)	1:89:A:ASP:HA	1:95:A:LEU:HG	16	1.28
(1,773)	1:87:A:PHE:HZ	1:98:A:ALA:H	3	1.28
(1,1118)	1:77:A:LEU:HD11	1:87:A:PHE:HE1	8	1.25
(1,1118)	1:77:A:LEU:HD11	1:87:A:PHE:HE2	8	1.25
(1,1118)	1:77:A:LEU:HD12	1:87:A:PHE:HE1	8	1.25
(1,1118)	1:77:A:LEU:HD12	1:87:A:PHE:HE2	8	1.25
(1,1118)	1:77:A:LEU:HD13	1:87:A:PHE:HE1	8	1.25
(1,1118)	1:77:A:LEU:HD13	1:87:A:PHE:HE2	8	1.25
(1,1118)	1:77:A:LEU:HD21	1:87:A:PHE:HE1	8	1.25
(1,1118)	1:77:A:LEU:HD21	1:87:A:PHE:HE2	8	1.25
(1,1118)	1:77:A:LEU:HD22	1:87:A:PHE:HE1	8	1.25
(1,1118)	1:77:A:LEU:HD22	1:87:A:PHE:HE2	8	1.25
(1,1118)	1:77:A:LEU:HD23	1:87:A:PHE:HE1	8	1.25
(1,1118)	1:77:A:LEU:HD23	1:87:A:PHE:HE2	8	1.25
(1,278)	1:47:A:GLN:H	1:52:A:GLN:HE21	3	1.25
(1,39)	1:121:A:ASP:H	1:123:A:THR:H	5	1.25
(1,773)	1:87:A:PHE:HZ	1:98:A:ALA:H	19	1.24
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD11	6	1.24
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD12	6	1.24
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD13	6	1.24
(1,1118)	1:77:A:LEU:HD11	1:87:A:PHE:HE1	1	1.22
(1,1118)	1:77:A:LEU:HD11	1:87:A:PHE:HE2	1	1.22
(1,1118)	1:77:A:LEU:HD12	1:87:A:PHE:HE1	1	1.22
(1,1118)	1:77:A:LEU:HD12	1:87:A:PHE:HE2	1	1.22
(1,1118)	1:77:A:LEU:HD13	1:87:A:PHE:HE1	1	1.22
(1,1118)	1:77:A:LEU:HD13	1:87:A:PHE:HE2	1	1.22
(1,1118)	1:77:A:LEU:HD21	1:87:A:PHE:HE1	1	1.22
(1,1118)	1:77:A:LEU:HD21	1:87:A:PHE:HE2	1	1.22
(1,1118)	1:77:A:LEU:HD22	1:87:A:PHE:HE1	1	1.22
(1,1118)	1:77:A:LEU:HD22	1:87:A:PHE:HE2	1	1.22
(1,1118)	1:77:A:LEU:HD23	1:87:A:PHE:HE1	1	1.22
(1,1118)	1:77:A:LEU:HD23	1:87:A:PHE:HE2	1	1.22
(1,927)	1:94:A:ARG:HG2	1:131:A:GLY:H	13	1.22
(1,927)	1:94:A:ARG:HG3	1:131:A:GLY:H	13	1.22
(1,773)	1:87:A:PHE:HZ	1:98:A:ALA:H	18	1.22
(1,13)	1:47:A:GLN:HE21	1:52:A:GLN:HG2	6	1.22
(1,13)	1:47:A:GLN:HE21	1:52:A:GLN:HG3	6	1.22
(1,773)	1:87:A:PHE:HZ	1:98:A:ALA:H	8	1.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD11	8	1.21
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD12	8	1.21
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD13	8	1.21
(1,17)	1:70:A:ASN:HD21	1:74:A:ASN:HB2	14	1.21
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD11	15	1.2
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD12	15	1.2
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD13	15	1.2
(1,202)	1:163:A:ARG:HE	1:164:A:GLY:H	12	1.2
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD11	12	1.19
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD12	12	1.19
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD13	12	1.19
(1,633)	1:106:A:ALA:HA	1:114:A:LEU:HD11	5	1.18
(1,633)	1:106:A:ALA:HA	1:114:A:LEU:HD12	5	1.18
(1,633)	1:106:A:ALA:HA	1:114:A:LEU:HD13	5	1.18
(1,633)	1:106:A:ALA:HA	1:114:A:LEU:HD21	5	1.18
(1,633)	1:106:A:ALA:HA	1:114:A:LEU:HD22	5	1.18
(1,633)	1:106:A:ALA:HA	1:114:A:LEU:HD23	5	1.18
(1,328)	1:47:A:GLN:HE21	1:52:A:GLN:H	17	1.18
(1,125)	1:94:A:ARG:HH21	1:104:A:THR:HB	16	1.18
(1,125)	1:94:A:ARG:HH22	1:104:A:THR:HB	16	1.18
(1,535)	1:110:A:ASP:HB2	1:112:A:SER:H	9	1.17
(1,535)	1:110:A:ASP:HB3	1:112:A:SER:H	9	1.17
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD11	2	1.17
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD12	2	1.17
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD13	2	1.17
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD11	5	1.17
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD12	5	1.17
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD13	5	1.17
(1,212)	1:47:A:GLN:H	1:51:A:GLU:H	11	1.16
(1,1114)	1:77:A:LEU:HD11	1:83:A:ARG:H	16	1.15
(1,1114)	1:77:A:LEU:HD12	1:83:A:ARG:H	16	1.15
(1,1114)	1:77:A:LEU:HD13	1:83:A:ARG:H	16	1.15
(1,1114)	1:77:A:LEU:HD21	1:83:A:ARG:H	16	1.15
(1,1114)	1:77:A:LEU:HD22	1:83:A:ARG:H	16	1.15
(1,1114)	1:77:A:LEU:HD23	1:83:A:ARG:H	16	1.15
(1,529)	1:47:A:GLN:H	1:52:A:GLN:HB2	15	1.14
(1,529)	1:47:A:GLN:H	1:52:A:GLN:HB3	15	1.14
(1,529)	1:47:A:GLN:H	1:52:A:GLN:HB2	17	1.14
(1,529)	1:47:A:GLN:H	1:52:A:GLN:HB3	17	1.14
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB1	11	1.14
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB2	11	1.14
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB3	11	1.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,952)	1:89:A:ASP:HA	1:95:A:LEU:HG	20	1.13
(1,927)	1:94:A:ARG:HG2	1:131:A:GLY:H	3	1.13
(1,927)	1:94:A:ARG:HG3	1:131:A:GLY:H	3	1.13
(1,773)	1:87:A:PHE:HZ	1:98:A:ALA:H	11	1.13
(1,594)	1:139:A:ALA:HA	1:145:A:GLU:HG2	20	1.13
(1,594)	1:139:A:ALA:HA	1:145:A:GLU:HG3	20	1.13
(1,535)	1:110:A:ASP:HB2	1:112:A:SER:H	10	1.13
(1,535)	1:110:A:ASP:HB3	1:112:A:SER:H	10	1.13
(1,1119)	1:77:A:LEU:HD11	1:87:A:PHE:HZ	5	1.12
(1,1119)	1:77:A:LEU:HD12	1:87:A:PHE:HZ	5	1.12
(1,1119)	1:77:A:LEU:HD13	1:87:A:PHE:HZ	5	1.12
(1,1119)	1:77:A:LEU:HD21	1:87:A:PHE:HZ	5	1.12
(1,1119)	1:77:A:LEU:HD22	1:87:A:PHE:HZ	5	1.12
(1,1119)	1:77:A:LEU:HD23	1:87:A:PHE:HZ	5	1.12
(1,952)	1:89:A:ASP:HA	1:95:A:LEU:HG	3	1.12
(1,212)	1:47:A:GLN:H	1:51:A:GLU:H	7	1.11
(1,952)	1:89:A:ASP:HA	1:95:A:LEU:HG	18	1.09
(1,534)	1:84:A:ALA:HB1	1:132:A:ARG:HE	3	1.09
(1,534)	1:84:A:ALA:HB2	1:132:A:ARG:HE	3	1.09
(1,534)	1:84:A:ALA:HB3	1:132:A:ARG:HE	3	1.09
(1,334)	1:47:A:GLN:HE21	1:52:A:GLN:HB2	15	1.09
(1,334)	1:47:A:GLN:HE21	1:52:A:GLN:HB3	15	1.09
(1,62)	1:69:A:LEU:H	1:71:A:ARG:HD2	19	1.09
(1,62)	1:69:A:LEU:H	1:71:A:ARG:HD3	19	1.09
(1,17)	1:70:A:ASN:HD21	1:74:A:ASN:HB2	11	1.09
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD11	6	1.08
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD12	6	1.08
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD13	6	1.08
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD21	6	1.08
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD22	6	1.08
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD23	6	1.08
(1,62)	1:69:A:LEU:H	1:71:A:ARG:HD2	11	1.08
(1,62)	1:69:A:LEU:H	1:71:A:ARG:HD3	11	1.08
(1,1119)	1:77:A:LEU:HD11	1:87:A:PHE:HZ	17	1.07
(1,1119)	1:77:A:LEU:HD12	1:87:A:PHE:HZ	17	1.07
(1,1119)	1:77:A:LEU:HD13	1:87:A:PHE:HZ	17	1.07
(1,1119)	1:77:A:LEU:HD21	1:87:A:PHE:HZ	17	1.07
(1,1119)	1:77:A:LEU:HD22	1:87:A:PHE:HZ	17	1.07
(1,1119)	1:77:A:LEU:HD23	1:87:A:PHE:HZ	17	1.07
(1,952)	1:89:A:ASP:HA	1:95:A:LEU:HG	19	1.07
(1,531)	1:111:A:ALA:HB1	1:114:A:LEU:HB2	11	1.07
(1,531)	1:111:A:ALA:HB1	1:114:A:LEU:HB3	11	1.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,531)	1:111:A:ALA:HB2	1:114:A:LEU:HB2	11	1.07
(1,531)	1:111:A:ALA:HB2	1:114:A:LEU:HB3	11	1.07
(1,531)	1:111:A:ALA:HB3	1:114:A:LEU:HB2	11	1.07
(1,531)	1:111:A:ALA:HB3	1:114:A:LEU:HB3	11	1.07
(1,62)	1:69:A:LEU:H	1:71:A:ARG:HD2	7	1.07
(1,62)	1:69:A:LEU:H	1:71:A:ARG:HD3	7	1.07
(1,62)	1:69:A:LEU:H	1:71:A:ARG:HD2	20	1.07
(1,62)	1:69:A:LEU:H	1:71:A:ARG:HD3	20	1.07
(1,13)	1:47:A:GLN:HE21	1:52:A:GLN:HG2	17	1.07
(1,13)	1:47:A:GLN:HE21	1:52:A:GLN:HG3	17	1.07
(1,822)	1:75:A:GLU:H	1:77:A:LEU:HB2	16	1.06
(1,822)	1:75:A:GLU:H	1:77:A:LEU:HB3	16	1.06
(1,614)	1:49:A:ILE:HG21	1:55:A:PRO:HG2	17	1.06
(1,614)	1:49:A:ILE:HG21	1:55:A:PRO:HG3	17	1.06
(1,614)	1:49:A:ILE:HG22	1:55:A:PRO:HG2	17	1.06
(1,614)	1:49:A:ILE:HG22	1:55:A:PRO:HG3	17	1.06
(1,614)	1:49:A:ILE:HG23	1:55:A:PRO:HG2	17	1.06
(1,614)	1:49:A:ILE:HG23	1:55:A:PRO:HG3	17	1.06
(1,604)	1:47:A:GLN:HA	1:47:A:GLN:HE21	7	1.06
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD11	3	1.06
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD12	3	1.06
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD13	3	1.06
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB1	12	1.06
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB2	12	1.06
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB3	12	1.06
(1,62)	1:69:A:LEU:H	1:71:A:ARG:HD2	16	1.06
(1,62)	1:69:A:LEU:H	1:71:A:ARG:HD3	16	1.06
(1,13)	1:47:A:GLN:HE21	1:52:A:GLN:HG2	15	1.06
(1,13)	1:47:A:GLN:HE21	1:52:A:GLN:HG3	15	1.06
(1,1119)	1:77:A:LEU:HD11	1:87:A:PHE:HZ	6	1.05
(1,1119)	1:77:A:LEU:HD12	1:87:A:PHE:HZ	6	1.05
(1,1119)	1:77:A:LEU:HD13	1:87:A:PHE:HZ	6	1.05
(1,1119)	1:77:A:LEU:HD21	1:87:A:PHE:HZ	6	1.05
(1,1119)	1:77:A:LEU:HD22	1:87:A:PHE:HZ	6	1.05
(1,1119)	1:77:A:LEU:HD23	1:87:A:PHE:HZ	6	1.05
(1,952)	1:89:A:ASP:HA	1:95:A:LEU:HG	7	1.05
(1,633)	1:106:A:ALA:HA	1:114:A:LEU:HD11	9	1.05
(1,633)	1:106:A:ALA:HA	1:114:A:LEU:HD12	9	1.05
(1,633)	1:106:A:ALA:HA	1:114:A:LEU:HD13	9	1.05
(1,633)	1:106:A:ALA:HA	1:114:A:LEU:HD21	9	1.05
(1,633)	1:106:A:ALA:HA	1:114:A:LEU:HD22	9	1.05
(1,633)	1:106:A:ALA:HA	1:114:A:LEU:HD23	9	1.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD11	7	1.05
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD12	7	1.05
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD13	7	1.05
(1,1056)	1:83:A:ARG:HD2	1:154:A:GLU:HB2	3	1.04
(1,1056)	1:83:A:ARG:HD2	1:154:A:GLU:HB3	3	1.04
(1,1056)	1:83:A:ARG:HD3	1:154:A:GLU:HB2	3	1.04
(1,1056)	1:83:A:ARG:HD3	1:154:A:GLU:HB3	3	1.04
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD11	13	1.04
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD12	13	1.04
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD13	13	1.04
(1,212)	1:47:A:GLN:H	1:51:A:GLU:H	16	1.04
(1,328)	1:47:A:GLN:HE21	1:52:A:GLN:H	9	1.03
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB1	20	1.03
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB2	20	1.03
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB3	20	1.03
(1,1119)	1:77:A:LEU:HD11	1:87:A:PHE:HZ	4	1.02
(1,1119)	1:77:A:LEU:HD12	1:87:A:PHE:HZ	4	1.02
(1,1119)	1:77:A:LEU:HD13	1:87:A:PHE:HZ	4	1.02
(1,1119)	1:77:A:LEU:HD21	1:87:A:PHE:HZ	4	1.02
(1,1119)	1:77:A:LEU:HD22	1:87:A:PHE:HZ	4	1.02
(1,1119)	1:77:A:LEU:HD23	1:87:A:PHE:HZ	4	1.02
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB1	3	1.02
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB2	3	1.02
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB3	3	1.02
(1,102)	1:51:A:GLU:H	1:52:A:GLN:HE21	17	1.02
(1,62)	1:69:A:LEU:H	1:71:A:ARG:HD2	8	1.02
(1,62)	1:69:A:LEU:H	1:71:A:ARG:HD3	8	1.02
(1,529)	1:47:A:GLN:H	1:52:A:GLN:HB2	7	1.01
(1,529)	1:47:A:GLN:H	1:52:A:GLN:HB3	7	1.01
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD11	10	1.01
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD12	10	1.01
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD13	10	1.01
(1,62)	1:69:A:LEU:H	1:71:A:ARG:HD2	18	1.01
(1,62)	1:69:A:LEU:H	1:71:A:ARG:HD3	18	1.01
(1,27)	1:91:A:ARG:H	1:149:A:GLY:H	20	1.01
(1,604)	1:47:A:GLN:HA	1:47:A:GLN:HE21	12	1.0
(1,17)	1:70:A:ASN:HD21	1:74:A:ASN:HB2	3	1.0
(1,17)	1:70:A:ASN:HD21	1:74:A:ASN:HB2	16	1.0
(1,1119)	1:77:A:LEU:HD11	1:87:A:PHE:HZ	12	0.99
(1,1119)	1:77:A:LEU:HD12	1:87:A:PHE:HZ	12	0.99
(1,1119)	1:77:A:LEU:HD13	1:87:A:PHE:HZ	12	0.99
(1,1119)	1:77:A:LEU:HD21	1:87:A:PHE:HZ	12	0.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1119)	1:77:A:LEU:HD22	1:87:A:PHE:HZ	12	0.99
(1,1119)	1:77:A:LEU:HD23	1:87:A:PHE:HZ	12	0.99
(1,291)	1:97:A:HIS:H	1:97:A:HIS:HD2	3	0.99
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD11	4	0.99
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD12	4	0.99
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD13	4	0.99
(1,96)	1:96:A:ALA:H	1:97:A:HIS:HD2	3	0.99
(1,68)	1:162:A:LEU:HA	1:163:A:ARG:HH11	20	0.99
(1,68)	1:162:A:LEU:HA	1:163:A:ARG:HH12	20	0.99
(1,27)	1:91:A:ARG:H	1:149:A:GLY:H	3	0.99
(1,1119)	1:77:A:LEU:HD11	1:87:A:PHE:HZ	13	0.98
(1,1119)	1:77:A:LEU:HD12	1:87:A:PHE:HZ	13	0.98
(1,1119)	1:77:A:LEU:HD13	1:87:A:PHE:HZ	13	0.98
(1,1119)	1:77:A:LEU:HD21	1:87:A:PHE:HZ	13	0.98
(1,1119)	1:77:A:LEU:HD22	1:87:A:PHE:HZ	13	0.98
(1,1119)	1:77:A:LEU:HD23	1:87:A:PHE:HZ	13	0.98
(1,1119)	1:77:A:LEU:HD11	1:87:A:PHE:HZ	15	0.98
(1,1119)	1:77:A:LEU:HD12	1:87:A:PHE:HZ	15	0.98
(1,1119)	1:77:A:LEU:HD13	1:87:A:PHE:HZ	15	0.98
(1,1119)	1:77:A:LEU:HD21	1:87:A:PHE:HZ	15	0.98
(1,1119)	1:77:A:LEU:HD22	1:87:A:PHE:HZ	15	0.98
(1,1119)	1:77:A:LEU:HD23	1:87:A:PHE:HZ	15	0.98
(1,40)	1:74:A:ASN:HA	1:98:A:ALA:HA	8	0.98
(1,1119)	1:77:A:LEU:HD11	1:87:A:PHE:HZ	2	0.97
(1,1119)	1:77:A:LEU:HD12	1:87:A:PHE:HZ	2	0.97
(1,1119)	1:77:A:LEU:HD13	1:87:A:PHE:HZ	2	0.97
(1,1119)	1:77:A:LEU:HD21	1:87:A:PHE:HZ	2	0.97
(1,1119)	1:77:A:LEU:HD22	1:87:A:PHE:HZ	2	0.97
(1,1119)	1:77:A:LEU:HD23	1:87:A:PHE:HZ	2	0.97
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG21	7	0.97
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG22	7	0.97
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG23	7	0.97
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG21	7	0.97
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG22	7	0.97
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG23	7	0.97
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD11	14	0.97
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD12	14	0.97
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD13	14	0.97
(1,1119)	1:77:A:LEU:HD11	1:87:A:PHE:HZ	14	0.96
(1,1119)	1:77:A:LEU:HD12	1:87:A:PHE:HZ	14	0.96
(1,1119)	1:77:A:LEU:HD13	1:87:A:PHE:HZ	14	0.96
(1,1119)	1:77:A:LEU:HD21	1:87:A:PHE:HZ	14	0.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1119)	1:77:A:LEU:HD22	1:87:A:PHE:HZ	14	0.96
(1,1119)	1:77:A:LEU:HD23	1:87:A:PHE:HZ	14	0.96
(1,1119)	1:77:A:LEU:HD11	1:87:A:PHE:HZ	19	0.96
(1,1119)	1:77:A:LEU:HD12	1:87:A:PHE:HZ	19	0.96
(1,1119)	1:77:A:LEU:HD13	1:87:A:PHE:HZ	19	0.96
(1,1119)	1:77:A:LEU:HD21	1:87:A:PHE:HZ	19	0.96
(1,1119)	1:77:A:LEU:HD22	1:87:A:PHE:HZ	19	0.96
(1,1119)	1:77:A:LEU:HD23	1:87:A:PHE:HZ	19	0.96
(1,952)	1:89:A:ASP:HA	1:95:A:LEU:HG	8	0.96
(1,773)	1:87:A:PHE:HZ	1:98:A:ALA:H	20	0.96
(1,604)	1:47:A:GLN:HA	1:47:A:GLN:HE21	11	0.96
(1,478)	1:55:A:PRO:HB2	1:58:A:ALA:HA	11	0.96
(1,478)	1:55:A:PRO:HB3	1:58:A:ALA:HA	11	0.96
(1,62)	1:69:A:LEU:H	1:71:A:ARG:HD2	13	0.96
(1,62)	1:69:A:LEU:H	1:71:A:ARG:HD3	13	0.96
(1,1119)	1:77:A:LEU:HD11	1:87:A:PHE:HZ	3	0.95
(1,1119)	1:77:A:LEU:HD12	1:87:A:PHE:HZ	3	0.95
(1,1119)	1:77:A:LEU:HD13	1:87:A:PHE:HZ	3	0.95
(1,1119)	1:77:A:LEU:HD21	1:87:A:PHE:HZ	3	0.95
(1,1119)	1:77:A:LEU:HD22	1:87:A:PHE:HZ	3	0.95
(1,1119)	1:77:A:LEU:HD23	1:87:A:PHE:HZ	3	0.95
(1,1119)	1:77:A:LEU:HD11	1:87:A:PHE:HZ	9	0.95
(1,1119)	1:77:A:LEU:HD12	1:87:A:PHE:HZ	9	0.95
(1,1119)	1:77:A:LEU:HD13	1:87:A:PHE:HZ	9	0.95
(1,1119)	1:77:A:LEU:HD21	1:87:A:PHE:HZ	9	0.95
(1,1119)	1:77:A:LEU:HD22	1:87:A:PHE:HZ	9	0.95
(1,1119)	1:77:A:LEU:HD23	1:87:A:PHE:HZ	9	0.95
(1,1119)	1:77:A:LEU:HD11	1:87:A:PHE:HZ	11	0.95
(1,1119)	1:77:A:LEU:HD12	1:87:A:PHE:HZ	11	0.95
(1,1119)	1:77:A:LEU:HD13	1:87:A:PHE:HZ	11	0.95
(1,1119)	1:77:A:LEU:HD21	1:87:A:PHE:HZ	11	0.95
(1,1119)	1:77:A:LEU:HD22	1:87:A:PHE:HZ	11	0.95
(1,1119)	1:77:A:LEU:HD23	1:87:A:PHE:HZ	11	0.95
(1,604)	1:47:A:GLN:HA	1:47:A:GLN:HE21	1	0.95
(1,604)	1:47:A:GLN:HA	1:47:A:GLN:HE21	9	0.95
(1,155)	1:92:A:GLN:H	1:149:A:GLY:H	6	0.95
(1,155)	1:92:A:GLN:H	1:149:A:GLY:H	20	0.95
(1,111)	1:88:A:LEU:HA	1:150:A:TRP:HZ2	19	0.95
(1,17)	1:70:A:ASN:HD21	1:74:A:ASN:HB2	13	0.95
(1,841)	1:130:A:LEU:HD11	1:132:A:ARG:H	9	0.94
(1,841)	1:130:A:LEU:HD12	1:132:A:ARG:H	9	0.94
(1,841)	1:130:A:LEU:HD13	1:132:A:ARG:H	9	0.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,841)	1:130:A:LEU:HD21	1:132:A:ARG:H	9	0.94
(1,841)	1:130:A:LEU:HD22	1:132:A:ARG:H	9	0.94
(1,841)	1:130:A:LEU:HD23	1:132:A:ARG:H	9	0.94
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD11	9	0.94
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD12	9	0.94
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD13	9	0.94
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD11	9	0.94
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD12	9	0.94
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD13	9	0.94
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD11	17	0.94
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD12	17	0.94
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD13	17	0.94
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD11	17	0.94
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD12	17	0.94
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD13	17	0.94
(1,334)	1:47:A:GLN:HE21	1:52:A:GLN:HB2	6	0.94
(1,334)	1:47:A:GLN:HE21	1:52:A:GLN:HB3	6	0.94
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD11	1	0.94
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD12	1	0.94
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD13	1	0.94
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB1	13	0.94
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB2	13	0.94
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB3	13	0.94
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB1	15	0.94
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB2	15	0.94
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB3	15	0.94
(1,155)	1:92:A:GLN:H	1:149:A:GLY:H	3	0.94
(1,62)	1:69:A:LEU:H	1:71:A:ARG:HD2	3	0.94
(1,62)	1:69:A:LEU:H	1:71:A:ARG:HD3	3	0.94
(1,62)	1:69:A:LEU:H	1:71:A:ARG:HD2	15	0.94
(1,62)	1:69:A:LEU:H	1:71:A:ARG:HD3	15	0.94
(1,1119)	1:77:A:LEU:HD11	1:87:A:PHE:HZ	7	0.93
(1,1119)	1:77:A:LEU:HD12	1:87:A:PHE:HZ	7	0.93
(1,1119)	1:77:A:LEU:HD13	1:87:A:PHE:HZ	7	0.93
(1,1119)	1:77:A:LEU:HD21	1:87:A:PHE:HZ	7	0.93
(1,1119)	1:77:A:LEU:HD22	1:87:A:PHE:HZ	7	0.93
(1,1119)	1:77:A:LEU:HD23	1:87:A:PHE:HZ	7	0.93
(1,1119)	1:77:A:LEU:HD11	1:87:A:PHE:HZ	20	0.93
(1,1119)	1:77:A:LEU:HD12	1:87:A:PHE:HZ	20	0.93
(1,1119)	1:77:A:LEU:HD13	1:87:A:PHE:HZ	20	0.93
(1,1119)	1:77:A:LEU:HD21	1:87:A:PHE:HZ	20	0.93
(1,1119)	1:77:A:LEU:HD22	1:87:A:PHE:HZ	20	0.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1119)	1:77:A:LEU:HD23	1:87:A:PHE:HZ	20	0.93
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG21	20	0.93
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG22	20	0.93
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG23	20	0.93
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG21	20	0.93
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG22	20	0.93
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG23	20	0.93
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG21	20	0.93
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG22	20	0.93
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG23	20	0.93
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG21	10	0.93
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG22	10	0.93
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG23	10	0.93
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG21	10	0.93
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG22	10	0.93
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG23	10	0.93
(1,529)	1:47:A:GLN:H	1:52:A:GLN:HB2	11	0.93
(1,529)	1:47:A:GLN:H	1:52:A:GLN:HB3	11	0.93
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB1	5	0.93
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB2	5	0.93
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB3	5	0.93
(1,62)	1:69:A:LEU:H	1:71:A:ARG:HD2	9	0.93
(1,62)	1:69:A:LEU:H	1:71:A:ARG:HD3	9	0.93
(1,40)	1:74:A:ASN:HA	1:98:A:ALA:HA	18	0.93
(1,946)	1:136:A:LEU:HB2	1:138:A:GLY:H	1	0.92
(1,946)	1:136:A:LEU:HB3	1:138:A:GLY:H	1	0.92
(1,604)	1:47:A:GLN:HA	1:47:A:GLN:HE21	19	0.92
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB1	7	0.92
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB2	7	0.92
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB3	7	0.92
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB1	9	0.92
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB2	9	0.92
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB3	9	0.92
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB1	14	0.92
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB2	14	0.92
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB3	14	0.92
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB1	19	0.92
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB2	19	0.92
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB3	19	0.92
(1,212)	1:47:A:GLN:H	1:51:A:GLU:H	8	0.92
(1,62)	1:69:A:LEU:H	1:71:A:ARG:HD2	4	0.92
(1,62)	1:69:A:LEU:H	1:71:A:ARG:HD3	4	0.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,17)	1:70:A:ASN:HD21	1:74:A:ASN:HB2	1	0.92
(1,841)	1:130:A:LEU:HD11	1:132:A:ARG:H	14	0.91
(1,841)	1:130:A:LEU:HD12	1:132:A:ARG:H	14	0.91
(1,841)	1:130:A:LEU:HD13	1:132:A:ARG:H	14	0.91
(1,841)	1:130:A:LEU:HD21	1:132:A:ARG:H	14	0.91
(1,841)	1:130:A:LEU:HD22	1:132:A:ARG:H	14	0.91
(1,841)	1:130:A:LEU:HD23	1:132:A:ARG:H	14	0.91
(1,535)	1:110:A:ASP:HB2	1:112:A:SER:H	18	0.91
(1,535)	1:110:A:ASP:HB3	1:112:A:SER:H	18	0.91
(1,529)	1:47:A:GLN:H	1:52:A:GLN:HB2	1	0.91
(1,529)	1:47:A:GLN:H	1:52:A:GLN:HB3	1	0.91
(1,478)	1:55:A:PRO:HB2	1:58:A:ALA:HA	20	0.91
(1,478)	1:55:A:PRO:HB3	1:58:A:ALA:HA	20	0.91
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB1	4	0.91
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB2	4	0.91
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB3	4	0.91
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB1	6	0.91
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB2	6	0.91
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB3	6	0.91
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB1	10	0.91
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB2	10	0.91
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB3	10	0.91
(1,155)	1:92:A:GLN:H	1:149:A:GLY:H	11	0.91
(1,62)	1:69:A:LEU:H	1:71:A:ARG:HD2	6	0.91
(1,62)	1:69:A:LEU:H	1:71:A:ARG:HD3	6	0.91
(1,62)	1:69:A:LEU:H	1:71:A:ARG:HD2	10	0.91
(1,62)	1:69:A:LEU:H	1:71:A:ARG:HD3	10	0.91
(1,62)	1:69:A:LEU:H	1:71:A:ARG:HD2	14	0.91
(1,62)	1:69:A:LEU:H	1:71:A:ARG:HD3	14	0.91
(1,604)	1:47:A:GLN:HA	1:47:A:GLN:HE21	2	0.9
(1,604)	1:47:A:GLN:HA	1:47:A:GLN:HE21	8	0.9
(1,604)	1:47:A:GLN:HA	1:47:A:GLN:HE21	10	0.9
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB1	18	0.9
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB2	18	0.9
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB3	18	0.9
(1,212)	1:47:A:GLN:H	1:51:A:GLU:H	9	0.9
(1,1119)	1:77:A:LEU:HD11	1:87:A:PHE:HZ	18	0.89
(1,1119)	1:77:A:LEU:HD12	1:87:A:PHE:HZ	18	0.89
(1,1119)	1:77:A:LEU:HD13	1:87:A:PHE:HZ	18	0.89
(1,1119)	1:77:A:LEU:HD21	1:87:A:PHE:HZ	18	0.89
(1,1119)	1:77:A:LEU:HD22	1:87:A:PHE:HZ	18	0.89
(1,1119)	1:77:A:LEU:HD23	1:87:A:PHE:HZ	18	0.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,952)	1:89:A:ASP:HA	1:95:A:LEU:HG	4	0.89
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB1	16	0.89
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB2	16	0.89
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB3	16	0.89
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG21	15	0.89
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG22	15	0.89
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG23	15	0.89
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG21	15	0.89
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG22	15	0.89
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG23	15	0.89
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG21	15	0.89
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG22	15	0.89
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG23	15	0.89
(1,442)	1:141:A:GLU:HB2	1:145:A:GLU:H	20	0.89
(1,442)	1:141:A:GLU:HB3	1:145:A:GLU:H	20	0.89
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD11	20	0.89
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD12	20	0.89
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD13	20	0.89
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB1	8	0.89
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB2	8	0.89
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB3	8	0.89
(1,155)	1:92:A:GLN:H	1:149:A:GLY:H	17	0.89
(1,1056)	1:83:A:ARG:HD2	1:154:A:GLU:HB2	5	0.88
(1,1056)	1:83:A:ARG:HD2	1:154:A:GLU:HB3	5	0.88
(1,1056)	1:83:A:ARG:HD3	1:154:A:GLU:HB2	5	0.88
(1,1056)	1:83:A:ARG:HD3	1:154:A:GLU:HB3	5	0.88
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG21	7	0.88
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG22	7	0.88
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG23	7	0.88
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG21	7	0.88
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG22	7	0.88
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG23	7	0.88
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG21	7	0.88
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG22	7	0.88
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG23	7	0.88
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG21	10	0.88
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG22	10	0.88
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG23	10	0.88
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG21	10	0.88
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG22	10	0.88
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG23	10	0.88
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG21	10	0.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG22	10	0.88
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG23	10	0.88
(1,604)	1:47:A:GLN:HA	1:47:A:GLN:HE21	4	0.88
(1,529)	1:47:A:GLN:H	1:52:A:GLN:HB2	10	0.88
(1,529)	1:47:A:GLN:H	1:52:A:GLN:HB3	10	0.88
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB1	16	0.88
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB2	16	0.88
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB3	16	0.88
(1,62)	1:69:A:LEU:H	1:71:A:ARG:HD2	5	0.88
(1,62)	1:69:A:LEU:H	1:71:A:ARG:HD3	5	0.88
(1,27)	1:91:A:ARG:H	1:149:A:GLY:H	11	0.88
(1,1056)	1:83:A:ARG:HD2	1:154:A:GLU:HB2	17	0.87
(1,1056)	1:83:A:ARG:HD2	1:154:A:GLU:HB3	17	0.87
(1,1056)	1:83:A:ARG:HD3	1:154:A:GLU:HB2	17	0.87
(1,1056)	1:83:A:ARG:HD3	1:154:A:GLU:HB3	17	0.87
(1,267)	1:43:A:ILE:HG21	1:52:A:GLN:HB2	17	0.87
(1,267)	1:43:A:ILE:HG21	1:52:A:GLN:HB3	17	0.87
(1,267)	1:43:A:ILE:HG22	1:52:A:GLN:HB2	17	0.87
(1,267)	1:43:A:ILE:HG22	1:52:A:GLN:HB3	17	0.87
(1,267)	1:43:A:ILE:HG23	1:52:A:GLN:HB2	17	0.87
(1,267)	1:43:A:ILE:HG23	1:52:A:GLN:HB3	17	0.87
(1,212)	1:47:A:GLN:H	1:51:A:GLU:H	5	0.87
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB1	9	0.87
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB2	9	0.87
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB3	9	0.87
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB1	9	0.87
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB2	9	0.87
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB3	9	0.87
(1,40)	1:74:A:ASN:HA	1:98:A:ALA:HA	19	0.87
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG21	8	0.86
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG22	8	0.86
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG23	8	0.86
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG21	8	0.86
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG22	8	0.86
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG23	8	0.86
(1,529)	1:47:A:GLN:H	1:52:A:GLN:HB2	9	0.86
(1,529)	1:47:A:GLN:H	1:52:A:GLN:HB3	9	0.86
(1,478)	1:55:A:PRO:HB2	1:58:A:ALA:HA	3	0.86
(1,478)	1:55:A:PRO:HB3	1:58:A:ALA:HA	3	0.86
(1,334)	1:47:A:GLN:HE21	1:52:A:GLN:HB2	20	0.86
(1,334)	1:47:A:GLN:HE21	1:52:A:GLN:HB3	20	0.86
(1,247)	1:74:A:ASN:H	1:75:A:GLU:HG2	6	0.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,247)	1:74:A:ASN:H	1:75:A:GLU:HG3	6	0.86
(1,212)	1:47:A:GLN:H	1:51:A:GLU:H	3	0.86
(1,62)	1:69:A:LEU:H	1:71:A:ARG:HD2	12	0.86
(1,62)	1:69:A:LEU:H	1:71:A:ARG:HD3	12	0.86
(1,1119)	1:77:A:LEU:HD11	1:87:A:PHE:HZ	1	0.85
(1,1119)	1:77:A:LEU:HD12	1:87:A:PHE:HZ	1	0.85
(1,1119)	1:77:A:LEU:HD13	1:87:A:PHE:HZ	1	0.85
(1,1119)	1:77:A:LEU:HD21	1:87:A:PHE:HZ	1	0.85
(1,1119)	1:77:A:LEU:HD22	1:87:A:PHE:HZ	1	0.85
(1,1119)	1:77:A:LEU:HD23	1:87:A:PHE:HZ	1	0.85
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG21	3	0.85
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG22	3	0.85
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG23	3	0.85
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG21	3	0.85
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG22	3	0.85
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG23	3	0.85
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG21	3	0.85
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG22	3	0.85
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG23	3	0.85
(1,495)	1:93:A:GLU:HG2	1:124:A:HIS:HA	3	0.85
(1,495)	1:93:A:GLU:HG3	1:124:A:HIS:HA	3	0.85
(1,379)	1:73:A:ALA:H	1:75:A:GLU:HG2	8	0.85
(1,379)	1:73:A:ALA:H	1:75:A:GLU:HG3	8	0.85
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD11	18	0.85
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD12	18	0.85
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD13	18	0.85
(1,278)	1:47:A:GLN:H	1:52:A:GLN:HE21	16	0.85
(1,959)	1:79:A:GLN:HB2	1:111:A:ALA:HA	18	0.84
(1,529)	1:47:A:GLN:H	1:52:A:GLN:HB2	4	0.84
(1,529)	1:47:A:GLN:H	1:52:A:GLN:HB3	4	0.84
(1,478)	1:55:A:PRO:HB2	1:58:A:ALA:HA	12	0.84
(1,478)	1:55:A:PRO:HB3	1:58:A:ALA:HA	12	0.84
(1,125)	1:94:A:ARG:HH21	1:104:A:THR:HB	2	0.84
(1,125)	1:94:A:ARG:HH22	1:104:A:THR:HB	2	0.84
(1,1119)	1:77:A:LEU:HD11	1:87:A:PHE:HZ	8	0.83
(1,1119)	1:77:A:LEU:HD12	1:87:A:PHE:HZ	8	0.83
(1,1119)	1:77:A:LEU:HD13	1:87:A:PHE:HZ	8	0.83
(1,1119)	1:77:A:LEU:HD21	1:87:A:PHE:HZ	8	0.83
(1,1119)	1:77:A:LEU:HD22	1:87:A:PHE:HZ	8	0.83
(1,1119)	1:77:A:LEU:HD23	1:87:A:PHE:HZ	8	0.83
(1,841)	1:130:A:LEU:HD11	1:132:A:ARG:H	11	0.83
(1,841)	1:130:A:LEU:HD12	1:132:A:ARG:H	11	0.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,841)	1:130:A:LEU:HD13	1:132:A:ARG:H	11	0.83
(1,841)	1:130:A:LEU:HD21	1:132:A:ARG:H	11	0.83
(1,841)	1:130:A:LEU:HD22	1:132:A:ARG:H	11	0.83
(1,841)	1:130:A:LEU:HD23	1:132:A:ARG:H	11	0.83
(1,604)	1:47:A:GLN:HA	1:47:A:GLN:HE21	3	0.83
(1,278)	1:47:A:GLN:H	1:52:A:GLN:HE21	5	0.83
(1,111)	1:88:A:LEU:HA	1:150:A:TRP:HZ2	9	0.83
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG21	12	0.82
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG22	12	0.82
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG23	12	0.82
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG21	12	0.82
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG22	12	0.82
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG23	12	0.82
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG21	12	0.82
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG22	12	0.82
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG23	12	0.82
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG21	16	0.82
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG22	16	0.82
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG23	16	0.82
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG21	16	0.82
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG22	16	0.82
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG23	16	0.82
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG21	16	0.82
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG22	16	0.82
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG23	16	0.82
(1,111)	1:88:A:LEU:HA	1:150:A:TRP:HZ2	16	0.82
(1,27)	1:91:A:ARG:H	1:149:A:GLY:H	18	0.82
(1,927)	1:94:A:ARG:HG2	1:131:A:GLY:H	15	0.81
(1,927)	1:94:A:ARG:HG3	1:131:A:GLY:H	15	0.81
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG21	5	0.81
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG22	5	0.81
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG23	5	0.81
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG21	5	0.81
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG22	5	0.81
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG23	5	0.81
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG21	5	0.81
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG22	5	0.81
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG23	5	0.81
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG21	20	0.81
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG22	20	0.81
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG23	20	0.81
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG21	20	0.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG22	20	0.81
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG23	20	0.81
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB1	2	0.81
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB2	2	0.81
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB3	2	0.81
(1,155)	1:92:A:GLN:H	1:149:A:GLY:H	16	0.81
(1,1017)	1:64:A:LYS:HD2	1:141:A:GLU:HB2	20	0.8
(1,1017)	1:64:A:LYS:HD2	1:141:A:GLU:HB3	20	0.8
(1,1017)	1:64:A:LYS:HD3	1:141:A:GLU:HB2	20	0.8
(1,1017)	1:64:A:LYS:HD3	1:141:A:GLU:HB3	20	0.8
(1,952)	1:89:A:ASP:HA	1:95:A:LEU:HG	10	0.8
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG21	2	0.8
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG22	2	0.8
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG23	2	0.8
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG21	2	0.8
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG22	2	0.8
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG23	2	0.8
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG21	2	0.8
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG22	2	0.8
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG23	2	0.8
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG21	14	0.8
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG22	14	0.8
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG23	14	0.8
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG21	14	0.8
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG22	14	0.8
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG23	14	0.8
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG21	14	0.8
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG22	14	0.8
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG23	14	0.8
(1,334)	1:47:A:GLN:HE21	1:52:A:GLN:HB2	13	0.8
(1,334)	1:47:A:GLN:HE21	1:52:A:GLN:HB3	13	0.8
(1,155)	1:92:A:GLN:H	1:149:A:GLY:H	2	0.8
(1,111)	1:88:A:LEU:HA	1:150:A:TRP:HZ2	7	0.8
(1,111)	1:88:A:LEU:HA	1:150:A:TRP:HZ2	18	0.8
(1,40)	1:74:A:ASN:HA	1:98:A:ALA:HA	11	0.8
(1,959)	1:79:A:GLN:HB2	1:111:A:ALA:HA	9	0.79
(1,495)	1:93:A:GLU:HG2	1:124:A:HIS:HA	17	0.79
(1,495)	1:93:A:GLU:HG3	1:124:A:HIS:HA	17	0.79
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB1	4	0.79
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB2	4	0.79
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB3	4	0.79
(1,202)	1:163:A:ARG:HE	1:164:A:GLY:H	3	0.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,104)	1:70:A:ASN:HD22	1:71:A:ARG:HD2	20	0.79
(1,104)	1:70:A:ASN:HD22	1:71:A:ARG:HD3	20	0.79
(1,102)	1:51:A:GLU:H	1:52:A:GLN:HE21	15	0.79
(1,60)	1:47:A:GLN:HE22	1:52:A:GLN:H	10	0.79
(1,1056)	1:83:A:ARG:HD2	1:154:A:GLU:HB2	6	0.78
(1,1056)	1:83:A:ARG:HD2	1:154:A:GLU:HB3	6	0.78
(1,1056)	1:83:A:ARG:HD3	1:154:A:GLU:HB2	6	0.78
(1,1056)	1:83:A:ARG:HD3	1:154:A:GLU:HB3	6	0.78
(1,1056)	1:83:A:ARG:HD2	1:154:A:GLU:HB2	10	0.78
(1,1056)	1:83:A:ARG:HD2	1:154:A:GLU:HB3	10	0.78
(1,1056)	1:83:A:ARG:HD3	1:154:A:GLU:HB2	10	0.78
(1,1056)	1:83:A:ARG:HD3	1:154:A:GLU:HB3	10	0.78
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG21	13	0.78
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG22	13	0.78
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG23	13	0.78
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG21	13	0.78
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG22	13	0.78
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG23	13	0.78
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG21	13	0.78
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG22	13	0.78
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG23	13	0.78
(1,742)	1:88:A:LEU:HB2	1:93:A:GLU:HG2	14	0.78
(1,742)	1:88:A:LEU:HB2	1:93:A:GLU:HG3	14	0.78
(1,742)	1:88:A:LEU:HB3	1:93:A:GLU:HG2	14	0.78
(1,742)	1:88:A:LEU:HB3	1:93:A:GLU:HG3	14	0.78
(1,478)	1:55:A:PRO:HB2	1:58:A:ALA:HA	10	0.78
(1,478)	1:55:A:PRO:HB3	1:58:A:ALA:HA	10	0.78
(1,379)	1:73:A:ALA:H	1:75:A:GLU:HG2	6	0.78
(1,379)	1:73:A:ALA:H	1:75:A:GLU:HG3	6	0.78
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB1	1	0.78
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB2	1	0.78
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB3	1	0.78
(1,111)	1:88:A:LEU:HA	1:150:A:TRP:HZ2	1	0.78
(1,111)	1:88:A:LEU:HA	1:150:A:TRP:HZ2	4	0.78
(1,841)	1:130:A:LEU:HD11	1:132:A:ARG:H	10	0.77
(1,841)	1:130:A:LEU:HD12	1:132:A:ARG:H	10	0.77
(1,841)	1:130:A:LEU:HD13	1:132:A:ARG:H	10	0.77
(1,841)	1:130:A:LEU:HD21	1:132:A:ARG:H	10	0.77
(1,841)	1:130:A:LEU:HD22	1:132:A:ARG:H	10	0.77
(1,841)	1:130:A:LEU:HD23	1:132:A:ARG:H	10	0.77
(1,773)	1:87:A:PHE:HZ	1:98:A:ALA:H	16	0.77
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG21	6	0.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG22	6	0.77
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG23	6	0.77
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG21	6	0.77
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG22	6	0.77
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG23	6	0.77
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG21	6	0.77
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG22	6	0.77
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG23	6	0.77
(1,604)	1:47:A:GLN:HA	1:47:A:GLN:HE21	18	0.77
(1,334)	1:47:A:GLN:HE21	1:52:A:GLN:HB2	14	0.77
(1,334)	1:47:A:GLN:HE21	1:52:A:GLN:HB3	14	0.77
(1,212)	1:47:A:GLN:H	1:51:A:GLU:H	1	0.77
(1,212)	1:47:A:GLN:H	1:51:A:GLU:H	4	0.77
(1,155)	1:92:A:GLN:H	1:149:A:GLY:H	4	0.77
(1,155)	1:92:A:GLN:H	1:149:A:GLY:H	7	0.77
(1,155)	1:92:A:GLN:H	1:149:A:GLY:H	12	0.77
(1,155)	1:92:A:GLN:H	1:149:A:GLY:H	15	0.77
(1,141)	1:97:A:HIS:HB3	1:103:A:LEU:H	18	0.77
(1,104)	1:70:A:ASN:HD22	1:71:A:ARG:HD2	10	0.77
(1,104)	1:70:A:ASN:HD22	1:71:A:ARG:HD3	10	0.77
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG21	12	0.76
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG22	12	0.76
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG23	12	0.76
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG21	12	0.76
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG22	12	0.76
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG23	12	0.76
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG21	19	0.76
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG22	19	0.76
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG23	19	0.76
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG21	19	0.76
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG22	19	0.76
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG23	19	0.76
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD11	3	0.76
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD12	3	0.76
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD13	3	0.76
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD21	3	0.76
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD22	3	0.76
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD23	3	0.76
(1,604)	1:47:A:GLN:HA	1:47:A:GLN:HE21	16	0.76
(1,478)	1:55:A:PRO:HB2	1:58:A:ALA:HA	7	0.76
(1,478)	1:55:A:PRO:HB3	1:58:A:ALA:HA	7	0.76
(1,478)	1:55:A:PRO:HB2	1:58:A:ALA:HA	13	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,478)	1:55:A:PRO:HB3	1:58:A:ALA:HA	13	0.76
(1,405)	1:103:A:LEU:HG	1:105:A:VAL:H	16	0.76
(1,332)	1:47:A:GLN:H	1:53:A:LEU:H	16	0.76
(1,212)	1:47:A:GLN:H	1:51:A:GLU:H	17	0.76
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB1	7	0.76
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB2	7	0.76
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB3	7	0.76
(1,104)	1:70:A:ASN:HD22	1:71:A:ARG:HD2	15	0.76
(1,104)	1:70:A:ASN:HD22	1:71:A:ARG:HD3	15	0.76
(1,13)	1:47:A:GLN:HE21	1:52:A:GLN:HG2	12	0.76
(1,13)	1:47:A:GLN:HE21	1:52:A:GLN:HG3	12	0.76
(1,952)	1:89:A:ASP:HA	1:95:A:LEU:HG	1	0.75
(1,952)	1:89:A:ASP:HA	1:95:A:LEU:HG	17	0.75
(1,841)	1:130:A:LEU:HD11	1:132:A:ARG:H	5	0.75
(1,841)	1:130:A:LEU:HD12	1:132:A:ARG:H	5	0.75
(1,841)	1:130:A:LEU:HD13	1:132:A:ARG:H	5	0.75
(1,841)	1:130:A:LEU:HD21	1:132:A:ARG:H	5	0.75
(1,841)	1:130:A:LEU:HD22	1:132:A:ARG:H	5	0.75
(1,841)	1:130:A:LEU:HD23	1:132:A:ARG:H	5	0.75
(1,773)	1:87:A:PHE:HZ	1:98:A:ALA:H	10	0.75
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG21	4	0.75
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG22	4	0.75
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG23	4	0.75
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG21	4	0.75
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG22	4	0.75
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG23	4	0.75
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG21	4	0.75
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG22	4	0.75
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG23	4	0.75
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG21	19	0.75
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG22	19	0.75
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG23	19	0.75
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG21	19	0.75
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG22	19	0.75
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG23	19	0.75
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG21	19	0.75
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG22	19	0.75
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG23	19	0.75
(1,604)	1:47:A:GLN:HA	1:47:A:GLN:HE21	5	0.75
(1,568)	1:111:A:ALA:HA	1:114:A:LEU:H	11	0.75
(1,478)	1:55:A:PRO:HB2	1:58:A:ALA:HA	5	0.75
(1,478)	1:55:A:PRO:HB3	1:58:A:ALA:HA	5	0.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD21	20	0.75
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD22	20	0.75
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD23	20	0.75
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD21	20	0.75
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD22	20	0.75
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD23	20	0.75
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD21	20	0.75
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD22	20	0.75
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD23	20	0.75
(1,332)	1:47:A:GLN:H	1:53:A:LEU:H	9	0.75
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB1	10	0.75
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB2	10	0.75
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB3	10	0.75
(1,155)	1:92:A:GLN:H	1:149:A:GLY:H	9	0.75
(1,111)	1:88:A:LEU:HA	1:150:A:TRP:HZ2	8	0.75
(1,104)	1:70:A:ASN:HD22	1:71:A:ARG:HD2	12	0.75
(1,104)	1:70:A:ASN:HD22	1:71:A:ARG:HD3	12	0.75
(1,95)	1:81:A:ASP:HB2	1:163:A:ARG:HH11	6	0.75
(1,95)	1:81:A:ASP:HB2	1:163:A:ARG:HH12	6	0.75
(1,39)	1:121:A:ASP:H	1:123:A:THR:H	11	0.75
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG21	3	0.74
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG22	3	0.74
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG23	3	0.74
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG21	3	0.74
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG22	3	0.74
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG23	3	0.74
(1,1056)	1:83:A:ARG:HD2	1:154:A:GLU:HB2	12	0.74
(1,1056)	1:83:A:ARG:HD2	1:154:A:GLU:HB3	12	0.74
(1,1056)	1:83:A:ARG:HD3	1:154:A:GLU:HB2	12	0.74
(1,1056)	1:83:A:ARG:HD3	1:154:A:GLU:HB3	12	0.74
(1,1003)	1:85:A:VAL:HG21	1:99:A:GLY:HA2	11	0.74
(1,1003)	1:85:A:VAL:HG21	1:99:A:GLY:HA3	11	0.74
(1,1003)	1:85:A:VAL:HG22	1:99:A:GLY:HA2	11	0.74
(1,1003)	1:85:A:VAL:HG22	1:99:A:GLY:HA3	11	0.74
(1,1003)	1:85:A:VAL:HG23	1:99:A:GLY:HA2	11	0.74
(1,1003)	1:85:A:VAL:HG23	1:99:A:GLY:HA3	11	0.74
(1,822)	1:75:A:GLU:H	1:77:A:LEU:HB2	6	0.74
(1,822)	1:75:A:GLU:H	1:77:A:LEU:HB3	6	0.74
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG21	8	0.74
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG22	8	0.74
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG23	8	0.74
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG21	8	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG22	8	0.74
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG23	8	0.74
(1,593)	1:79:A:GLN:HG3	1:111:A:ALA:HA	5	0.74
(1,593)	1:79:A:GLN:HG3	1:111:A:ALA:HA	16	0.74
(1,570)	1:139:A:ALA:HA	1:141:A:GLU:HB2	20	0.74
(1,570)	1:139:A:ALA:HA	1:141:A:GLU:HB3	20	0.74
(1,535)	1:110:A:ASP:HB2	1:112:A:SER:H	7	0.74
(1,535)	1:110:A:ASP:HB3	1:112:A:SER:H	7	0.74
(1,478)	1:55:A:PRO:HB2	1:58:A:ALA:HA	15	0.74
(1,478)	1:55:A:PRO:HB3	1:58:A:ALA:HA	15	0.74
(1,425)	1:42:A:LEU:HA	1:56:A:LEU:HG	9	0.74
(1,425)	1:42:A:LEU:HA	1:56:A:LEU:HG	17	0.74
(1,154)	1:79:A:GLN:HE21	1:111:A:ALA:HA	9	0.74
(1,125)	1:94:A:ARG:HH21	1:104:A:THR:HB	5	0.74
(1,125)	1:94:A:ARG:HH22	1:104:A:THR:HB	5	0.74
(1,27)	1:91:A:ARG:H	1:149:A:GLY:H	12	0.74
(1,1056)	1:83:A:ARG:HD2	1:154:A:GLU:HB2	11	0.73
(1,1056)	1:83:A:ARG:HD2	1:154:A:GLU:HB3	11	0.73
(1,1056)	1:83:A:ARG:HD3	1:154:A:GLU:HB2	11	0.73
(1,1056)	1:83:A:ARG:HD3	1:154:A:GLU:HB3	11	0.73
(1,1003)	1:85:A:VAL:HG21	1:99:A:GLY:HA2	3	0.73
(1,1003)	1:85:A:VAL:HG21	1:99:A:GLY:HA3	3	0.73
(1,1003)	1:85:A:VAL:HG22	1:99:A:GLY:HA2	3	0.73
(1,1003)	1:85:A:VAL:HG22	1:99:A:GLY:HA3	3	0.73
(1,1003)	1:85:A:VAL:HG23	1:99:A:GLY:HA2	3	0.73
(1,1003)	1:85:A:VAL:HG23	1:99:A:GLY:HA3	3	0.73
(1,1003)	1:85:A:VAL:HG21	1:99:A:GLY:HA2	5	0.73
(1,1003)	1:85:A:VAL:HG21	1:99:A:GLY:HA3	5	0.73
(1,1003)	1:85:A:VAL:HG22	1:99:A:GLY:HA2	5	0.73
(1,1003)	1:85:A:VAL:HG22	1:99:A:GLY:HA3	5	0.73
(1,1003)	1:85:A:VAL:HG23	1:99:A:GLY:HA2	5	0.73
(1,1003)	1:85:A:VAL:HG23	1:99:A:GLY:HA3	5	0.73
(1,1003)	1:85:A:VAL:HG21	1:99:A:GLY:HA2	12	0.73
(1,1003)	1:85:A:VAL:HG21	1:99:A:GLY:HA3	12	0.73
(1,1003)	1:85:A:VAL:HG22	1:99:A:GLY:HA2	12	0.73
(1,1003)	1:85:A:VAL:HG22	1:99:A:GLY:HA3	12	0.73
(1,1003)	1:85:A:VAL:HG23	1:99:A:GLY:HA2	12	0.73
(1,1003)	1:85:A:VAL:HG23	1:99:A:GLY:HA3	12	0.73
(1,805)	1:41:A:GLN:HE21	1:42:A:LEU:HG	16	0.73
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD11	19	0.73
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD12	19	0.73
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD13	19	0.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD11	19	0.73
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD12	19	0.73
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD13	19	0.73
(1,311)	1:98:A:ALA:H	1:152:A:GLU:HB2	8	0.73
(1,311)	1:98:A:ALA:H	1:152:A:GLU:HB3	8	0.73
(1,276)	1:43:A:ILE:HG21	1:47:A:GLN:HA	9	0.73
(1,276)	1:43:A:ILE:HG22	1:47:A:GLN:HA	9	0.73
(1,276)	1:43:A:ILE:HG23	1:47:A:GLN:HA	9	0.73
(1,255)	1:94:A:ARG:HB2	1:94:A:ARG:HH21	16	0.73
(1,255)	1:94:A:ARG:HB2	1:94:A:ARG:HH22	16	0.73
(1,255)	1:94:A:ARG:HB3	1:94:A:ARG:HH21	16	0.73
(1,255)	1:94:A:ARG:HB3	1:94:A:ARG:HH22	16	0.73
(1,129)	1:70:A:ASN:HB2	1:71:A:ARG:HE	11	0.73
(1,62)	1:69:A:LEU:H	1:71:A:ARG:HD2	2	0.73
(1,62)	1:69:A:LEU:H	1:71:A:ARG:HD3	2	0.73
(1,40)	1:74:A:ASN:HA	1:98:A:ALA:HA	12	0.73
(1,27)	1:91:A:ARG:H	1:149:A:GLY:H	8	0.73
(1,1003)	1:85:A:VAL:HG21	1:99:A:GLY:HA2	9	0.72
(1,1003)	1:85:A:VAL:HG21	1:99:A:GLY:HA3	9	0.72
(1,1003)	1:85:A:VAL:HG22	1:99:A:GLY:HA2	9	0.72
(1,1003)	1:85:A:VAL:HG22	1:99:A:GLY:HA3	9	0.72
(1,1003)	1:85:A:VAL:HG23	1:99:A:GLY:HA2	9	0.72
(1,1003)	1:85:A:VAL:HG23	1:99:A:GLY:HA3	9	0.72
(1,952)	1:89:A:ASP:HA	1:95:A:LEU:HG	6	0.72
(1,805)	1:41:A:GLN:HE21	1:42:A:LEU:HG	20	0.72
(1,478)	1:55:A:PRO:HB2	1:58:A:ALA:HA	4	0.72
(1,478)	1:55:A:PRO:HB3	1:58:A:ALA:HA	4	0.72
(1,478)	1:55:A:PRO:HB2	1:58:A:ALA:HA	14	0.72
(1,478)	1:55:A:PRO:HB3	1:58:A:ALA:HA	14	0.72
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD21	7	0.72
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD22	7	0.72
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD23	7	0.72
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD21	7	0.72
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD22	7	0.72
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD23	7	0.72
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD21	7	0.72
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD22	7	0.72
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD23	7	0.72
(1,322)	1:60:A:ALA:H	1:65:A:ASP:HB2	11	0.72
(1,247)	1:74:A:ASN:H	1:75:A:GLU:HG2	8	0.72
(1,247)	1:74:A:ASN:H	1:75:A:GLU:HG3	8	0.72
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB1	15	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB2	15	0.72
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB3	15	0.72
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB1	17	0.72
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB2	17	0.72
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB3	17	0.72
(1,141)	1:97:A:HIS:HB3	1:103:A:LEU:H	6	0.72
(1,119)	1:87:A:PHE:HD1	1:98:A:ALA:H	3	0.72
(1,119)	1:87:A:PHE:HD2	1:98:A:ALA:H	3	0.72
(1,119)	1:87:A:PHE:HD1	1:98:A:ALA:H	18	0.72
(1,119)	1:87:A:PHE:HD2	1:98:A:ALA:H	18	0.72
(1,106)	1:75:A:GLU:H	1:78:A:ASP:H	16	0.72
(1,104)	1:70:A:ASN:HD22	1:71:A:ARG:HD2	19	0.72
(1,104)	1:70:A:ASN:HD22	1:71:A:ARG:HD3	19	0.72
(1,62)	1:69:A:LEU:H	1:71:A:ARG:HD2	17	0.72
(1,62)	1:69:A:LEU:H	1:71:A:ARG:HD3	17	0.72
(1,1003)	1:85:A:VAL:HG21	1:99:A:GLY:HA2	4	0.71
(1,1003)	1:85:A:VAL:HG21	1:99:A:GLY:HA3	4	0.71
(1,1003)	1:85:A:VAL:HG22	1:99:A:GLY:HA2	4	0.71
(1,1003)	1:85:A:VAL:HG22	1:99:A:GLY:HA3	4	0.71
(1,1003)	1:85:A:VAL:HG23	1:99:A:GLY:HA2	4	0.71
(1,1003)	1:85:A:VAL:HG23	1:99:A:GLY:HA3	4	0.71
(1,952)	1:89:A:ASP:HA	1:95:A:LEU:HG	13	0.71
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG21	17	0.71
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG22	17	0.71
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG23	17	0.71
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG21	17	0.71
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG22	17	0.71
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG23	17	0.71
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG21	17	0.71
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG22	17	0.71
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG23	17	0.71
(1,276)	1:43:A:ILE:HG21	1:47:A:GLN:HA	4	0.71
(1,276)	1:43:A:ILE:HG22	1:47:A:GLN:HA	4	0.71
(1,276)	1:43:A:ILE:HG23	1:47:A:GLN:HA	4	0.71
(1,119)	1:87:A:PHE:HD1	1:98:A:ALA:H	15	0.71
(1,119)	1:87:A:PHE:HD2	1:98:A:ALA:H	15	0.71
(1,60)	1:47:A:GLN:HE22	1:52:A:GLN:H	11	0.71
(1,27)	1:91:A:ARG:H	1:149:A:GLY:H	4	0.71
(1,17)	1:70:A:ASN:HD21	1:74:A:ASN:HB2	17	0.71
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG21	18	0.7
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG22	18	0.7
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG23	18	0.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG21	18	0.7
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG22	18	0.7
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG23	18	0.7
(1,1003)	1:85:A:VAL:HG21	1:99:A:GLY:HA2	2	0.7
(1,1003)	1:85:A:VAL:HG21	1:99:A:GLY:HA3	2	0.7
(1,1003)	1:85:A:VAL:HG22	1:99:A:GLY:HA2	2	0.7
(1,1003)	1:85:A:VAL:HG22	1:99:A:GLY:HA3	2	0.7
(1,1003)	1:85:A:VAL:HG23	1:99:A:GLY:HA2	2	0.7
(1,1003)	1:85:A:VAL:HG23	1:99:A:GLY:HA3	2	0.7
(1,1003)	1:85:A:VAL:HG21	1:99:A:GLY:HA2	6	0.7
(1,1003)	1:85:A:VAL:HG21	1:99:A:GLY:HA3	6	0.7
(1,1003)	1:85:A:VAL:HG22	1:99:A:GLY:HA2	6	0.7
(1,1003)	1:85:A:VAL:HG22	1:99:A:GLY:HA3	6	0.7
(1,1003)	1:85:A:VAL:HG23	1:99:A:GLY:HA2	6	0.7
(1,1003)	1:85:A:VAL:HG23	1:99:A:GLY:HA3	6	0.7
(1,959)	1:79:A:GLN:HB2	1:111:A:ALA:HA	5	0.7
(1,805)	1:41:A:GLN:HE21	1:42:A:LEU:HG	19	0.7
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG21	11	0.7
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG22	11	0.7
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG23	11	0.7
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG21	11	0.7
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG22	11	0.7
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG23	11	0.7
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG21	11	0.7
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG22	11	0.7
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG23	11	0.7
(1,495)	1:93:A:GLU:HG2	1:124:A:HIS:HA	13	0.7
(1,495)	1:93:A:GLU:HG3	1:124:A:HIS:HA	13	0.7
(1,296)	1:80:A:PRO:HG2	1:163:A:ARG:HH11	8	0.7
(1,296)	1:80:A:PRO:HG2	1:163:A:ARG:HH12	8	0.7
(1,296)	1:80:A:PRO:HG3	1:163:A:ARG:HH11	8	0.7
(1,296)	1:80:A:PRO:HG3	1:163:A:ARG:HH12	8	0.7
(1,276)	1:43:A:ILE:HG21	1:47:A:GLN:HA	19	0.7
(1,276)	1:43:A:ILE:HG22	1:47:A:GLN:HA	19	0.7
(1,276)	1:43:A:ILE:HG23	1:47:A:GLN:HA	19	0.7
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB1	12	0.7
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB2	12	0.7
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB3	12	0.7
(1,208)	1:97:A:HIS:HB2	1:131:A:GLY:H	18	0.7
(1,155)	1:92:A:GLN:H	1:149:A:GLY:H	1	0.7
(1,155)	1:92:A:GLN:H	1:149:A:GLY:H	8	0.7
(1,121)	1:41:A:GLN:HE21	1:42:A:LEU:HB2	19	0.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,62)	1:69:A:LEU:H	1:71:A:ARG:HD2	1	0.7
(1,62)	1:69:A:LEU:H	1:71:A:ARG:HD3	1	0.7
(1,27)	1:91:A:ARG:H	1:149:A:GLY:H	16	0.7
(1,27)	1:91:A:ARG:H	1:149:A:GLY:H	17	0.7
(1,1056)	1:83:A:ARG:HD2	1:154:A:GLU:HB2	2	0.69
(1,1056)	1:83:A:ARG:HD2	1:154:A:GLU:HB3	2	0.69
(1,1056)	1:83:A:ARG:HD3	1:154:A:GLU:HB2	2	0.69
(1,1056)	1:83:A:ARG:HD3	1:154:A:GLU:HB3	2	0.69
(1,1003)	1:85:A:VAL:HG21	1:99:A:GLY:HA2	13	0.69
(1,1003)	1:85:A:VAL:HG21	1:99:A:GLY:HA3	13	0.69
(1,1003)	1:85:A:VAL:HG22	1:99:A:GLY:HA2	13	0.69
(1,1003)	1:85:A:VAL:HG22	1:99:A:GLY:HA3	13	0.69
(1,1003)	1:85:A:VAL:HG23	1:99:A:GLY:HA2	13	0.69
(1,1003)	1:85:A:VAL:HG23	1:99:A:GLY:HA3	13	0.69
(1,1003)	1:85:A:VAL:HG21	1:99:A:GLY:HA2	17	0.69
(1,1003)	1:85:A:VAL:HG21	1:99:A:GLY:HA3	17	0.69
(1,1003)	1:85:A:VAL:HG22	1:99:A:GLY:HA2	17	0.69
(1,1003)	1:85:A:VAL:HG22	1:99:A:GLY:HA3	17	0.69
(1,1003)	1:85:A:VAL:HG23	1:99:A:GLY:HA2	17	0.69
(1,1003)	1:85:A:VAL:HG23	1:99:A:GLY:HA3	17	0.69
(1,989)	1:119:A:GLU:HG2	1:122:A:THR:H	10	0.69
(1,989)	1:119:A:GLU:HG3	1:122:A:THR:H	10	0.69
(1,959)	1:79:A:GLN:HB2	1:111:A:ALA:HA	16	0.69
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG21	19	0.69
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG22	19	0.69
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG23	19	0.69
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG21	19	0.69
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG22	19	0.69
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG23	19	0.69
(1,495)	1:93:A:GLU:HG2	1:124:A:HIS:HA	16	0.69
(1,495)	1:93:A:GLU:HG3	1:124:A:HIS:HA	16	0.69
(1,301)	1:88:A:LEU:HA	1:95:A:LEU:HB2	8	0.69
(1,301)	1:88:A:LEU:HA	1:95:A:LEU:HB3	8	0.69
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB1	17	0.69
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB2	17	0.69
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB3	17	0.69
(1,276)	1:43:A:ILE:HG21	1:47:A:GLN:HA	1	0.69
(1,276)	1:43:A:ILE:HG22	1:47:A:GLN:HA	1	0.69
(1,276)	1:43:A:ILE:HG23	1:47:A:GLN:HA	1	0.69
(1,276)	1:43:A:ILE:HG21	1:47:A:GLN:HA	18	0.69
(1,276)	1:43:A:ILE:HG22	1:47:A:GLN:HA	18	0.69
(1,276)	1:43:A:ILE:HG23	1:47:A:GLN:HA	18	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,276)	1:43:A:ILE:HG21	1:47:A:GLN:HA	20	0.69
(1,276)	1:43:A:ILE:HG22	1:47:A:GLN:HA	20	0.69
(1,276)	1:43:A:ILE:HG23	1:47:A:GLN:HA	20	0.69
(1,155)	1:92:A:GLN:H	1:149:A:GLY:H	18	0.69
(1,119)	1:87:A:PHE:HD1	1:98:A:ALA:H	9	0.69
(1,119)	1:87:A:PHE:HD2	1:98:A:ALA:H	9	0.69
(1,60)	1:47:A:GLN:HE22	1:52:A:GLN:H	7	0.69
(1,27)	1:91:A:ARG:H	1:149:A:GLY:H	9	0.69
(1,17)	1:70:A:ASN:HD21	1:74:A:ASN:HB2	7	0.69
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG21	11	0.68
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG22	11	0.68
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG23	11	0.68
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG21	11	0.68
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG22	11	0.68
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG23	11	0.68
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG21	17	0.68
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG22	17	0.68
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG23	17	0.68
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG21	17	0.68
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG22	17	0.68
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG23	17	0.68
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG21	1	0.68
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG22	1	0.68
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG23	1	0.68
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG21	1	0.68
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG22	1	0.68
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG23	1	0.68
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG21	1	0.68
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG22	1	0.68
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG23	1	0.68
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG21	8	0.68
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG22	8	0.68
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG23	8	0.68
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG21	8	0.68
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG22	8	0.68
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG23	8	0.68
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG21	8	0.68
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG22	8	0.68
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG23	8	0.68
(1,688)	1:93:A:GLU:HA	1:125:A:PHE:H	5	0.68
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD11	5	0.68
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD12	5	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD13	5	0.68
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD11	5	0.68
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD12	5	0.68
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD13	5	0.68
(1,593)	1:79:A:GLN:HG3	1:111:A:ALA:HA	1	0.68
(1,478)	1:55:A:PRO:HB2	1:58:A:ALA:HA	9	0.68
(1,478)	1:55:A:PRO:HB3	1:58:A:ALA:HA	9	0.68
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD21	10	0.68
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD22	10	0.68
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD23	10	0.68
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD21	10	0.68
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD22	10	0.68
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD23	10	0.68
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD21	10	0.68
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD22	10	0.68
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD23	10	0.68
(1,394)	1:39:A:ARG:HA	1:41:A:GLN:HG3	19	0.68
(1,306)	1:82:A:VAL:H	1:163:A:ARG:HH11	6	0.68
(1,306)	1:82:A:VAL:H	1:163:A:ARG:HH12	6	0.68
(1,305)	1:93:A:GLU:HA	1:94:A:ARG:HD2	5	0.68
(1,305)	1:93:A:GLU:HA	1:94:A:ARG:HD3	5	0.68
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB1	16	0.68
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB2	16	0.68
(1,283)	1:55:A:PRO:HA	1:58:A:ALA:HB3	16	0.68
(1,276)	1:43:A:ILE:HG21	1:47:A:GLN:HA	14	0.68
(1,276)	1:43:A:ILE:HG22	1:47:A:GLN:HA	14	0.68
(1,276)	1:43:A:ILE:HG23	1:47:A:GLN:HA	14	0.68
(1,166)	1:40:A:ALA:H	1:41:A:GLN:HG3	9	0.68
(1,129)	1:70:A:ASN:HB2	1:71:A:ARG:HE	14	0.68
(1,111)	1:88:A:LEU:HA	1:150:A:TRP:HZ2	3	0.68
(1,111)	1:88:A:LEU:HA	1:150:A:TRP:HZ2	12	0.68
(1,1114)	1:77:A:LEU:HD11	1:83:A:ARG:H	10	0.67
(1,1114)	1:77:A:LEU:HD12	1:83:A:ARG:H	10	0.67
(1,1114)	1:77:A:LEU:HD13	1:83:A:ARG:H	10	0.67
(1,1114)	1:77:A:LEU:HD21	1:83:A:ARG:H	10	0.67
(1,1114)	1:77:A:LEU:HD22	1:83:A:ARG:H	10	0.67
(1,1114)	1:77:A:LEU:HD23	1:83:A:ARG:H	10	0.67
(1,1058)	1:89:A:ASP:H	1:149:A:GLY:HA2	10	0.67
(1,927)	1:94:A:ARG:HG2	1:131:A:GLY:H	4	0.67
(1,927)	1:94:A:ARG:HG3	1:131:A:GLY:H	4	0.67
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD11	6	0.67
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD12	6	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD13	6	0.67
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD11	6	0.67
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD12	6	0.67
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD13	6	0.67
(1,278)	1:47:A:GLN:H	1:52:A:GLN:HE21	18	0.67
(1,247)	1:74:A:ASN:H	1:75:A:GLU:HG2	13	0.67
(1,247)	1:74:A:ASN:H	1:75:A:GLU:HG3	13	0.67
(1,194)	1:64:A:LYS:HE2	1:69:A:LEU:HD21	19	0.67
(1,194)	1:64:A:LYS:HE2	1:69:A:LEU:HD22	19	0.67
(1,194)	1:64:A:LYS:HE2	1:69:A:LEU:HD23	19	0.67
(1,194)	1:64:A:LYS:HE3	1:69:A:LEU:HD21	19	0.67
(1,194)	1:64:A:LYS:HE3	1:69:A:LEU:HD22	19	0.67
(1,194)	1:64:A:LYS:HE3	1:69:A:LEU:HD23	19	0.67
(1,155)	1:92:A:GLN:H	1:149:A:GLY:H	5	0.67
(1,119)	1:87:A:PHE:HD1	1:98:A:ALA:H	6	0.67
(1,119)	1:87:A:PHE:HD2	1:98:A:ALA:H	6	0.67
(1,111)	1:88:A:LEU:HA	1:150:A:TRP:HZ2	13	0.67
(1,102)	1:51:A:GLU:H	1:52:A:GLN:HE21	6	0.67
(1,83)	1:61:A:LEU:H	1:65:A:ASP:HB2	11	0.67
(1,60)	1:47:A:GLN:HE22	1:52:A:GLN:H	20	0.67
(1,1018)	1:70:A:ASN:HD22	1:71:A:ARG:HA	16	0.66
(1,1003)	1:85:A:VAL:HG21	1:99:A:GLY:HA2	14	0.66
(1,1003)	1:85:A:VAL:HG21	1:99:A:GLY:HA3	14	0.66
(1,1003)	1:85:A:VAL:HG22	1:99:A:GLY:HA2	14	0.66
(1,1003)	1:85:A:VAL:HG22	1:99:A:GLY:HA3	14	0.66
(1,1003)	1:85:A:VAL:HG23	1:99:A:GLY:HA2	14	0.66
(1,1003)	1:85:A:VAL:HG23	1:99:A:GLY:HA3	14	0.66
(1,1003)	1:85:A:VAL:HG21	1:99:A:GLY:HA2	15	0.66
(1,1003)	1:85:A:VAL:HG21	1:99:A:GLY:HA3	15	0.66
(1,1003)	1:85:A:VAL:HG22	1:99:A:GLY:HA2	15	0.66
(1,1003)	1:85:A:VAL:HG22	1:99:A:GLY:HA3	15	0.66
(1,1003)	1:85:A:VAL:HG23	1:99:A:GLY:HA2	15	0.66
(1,1003)	1:85:A:VAL:HG23	1:99:A:GLY:HA3	15	0.66
(1,1003)	1:85:A:VAL:HG21	1:99:A:GLY:HA2	19	0.66
(1,1003)	1:85:A:VAL:HG21	1:99:A:GLY:HA3	19	0.66
(1,1003)	1:85:A:VAL:HG22	1:99:A:GLY:HA2	19	0.66
(1,1003)	1:85:A:VAL:HG22	1:99:A:GLY:HA3	19	0.66
(1,1003)	1:85:A:VAL:HG23	1:99:A:GLY:HA2	19	0.66
(1,1003)	1:85:A:VAL:HG23	1:99:A:GLY:HA3	19	0.66
(1,971)	1:60:A:ALA:HA	1:65:A:ASP:HB3	12	0.66
(1,593)	1:79:A:GLN:HG3	1:111:A:ALA:HA	20	0.66
(1,509)	1:43:A:ILE:HD11	1:53:A:LEU:H	9	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,509)	1:43:A:ILE:HD12	1:53:A:LEU:H	9	0.66
(1,509)	1:43:A:ILE:HD13	1:53:A:LEU:H	9	0.66
(1,478)	1:55:A:PRO:HB2	1:58:A:ALA:HA	6	0.66
(1,478)	1:55:A:PRO:HB3	1:58:A:ALA:HA	6	0.66
(1,478)	1:55:A:PRO:HB2	1:58:A:ALA:HA	19	0.66
(1,478)	1:55:A:PRO:HB3	1:58:A:ALA:HA	19	0.66
(1,377)	1:66:A:THR:HG21	1:70:A:ASN:HB3	12	0.66
(1,377)	1:66:A:THR:HG22	1:70:A:ASN:HB3	12	0.66
(1,377)	1:66:A:THR:HG23	1:70:A:ASN:HB3	12	0.66
(1,377)	1:66:A:THR:HG21	1:70:A:ASN:HB3	15	0.66
(1,377)	1:66:A:THR:HG22	1:70:A:ASN:HB3	15	0.66
(1,377)	1:66:A:THR:HG23	1:70:A:ASN:HB3	15	0.66
(1,276)	1:43:A:ILE:HG21	1:47:A:GLN:HA	5	0.66
(1,276)	1:43:A:ILE:HG22	1:47:A:GLN:HA	5	0.66
(1,276)	1:43:A:ILE:HG23	1:47:A:GLN:HA	5	0.66
(1,111)	1:88:A:LEU:HA	1:150:A:TRP:HZ2	10	0.66
(1,111)	1:88:A:LEU:HA	1:150:A:TRP:HZ2	15	0.66
(1,1129)	1:81:A:ASP:HB2	1:162:A:LEU:HB2	20	0.65
(1,1129)	1:81:A:ASP:HB2	1:162:A:LEU:HB3	20	0.65
(1,1129)	1:81:A:ASP:HB3	1:162:A:LEU:HB2	20	0.65
(1,1129)	1:81:A:ASP:HB3	1:162:A:LEU:HB3	20	0.65
(1,1115)	1:77:A:LEU:HD11	1:84:A:ALA:H	16	0.65
(1,1115)	1:77:A:LEU:HD12	1:84:A:ALA:H	16	0.65
(1,1115)	1:77:A:LEU:HD13	1:84:A:ALA:H	16	0.65
(1,1115)	1:77:A:LEU:HD21	1:84:A:ALA:H	16	0.65
(1,1115)	1:77:A:LEU:HD22	1:84:A:ALA:H	16	0.65
(1,1115)	1:77:A:LEU:HD23	1:84:A:ALA:H	16	0.65
(1,927)	1:94:A:ARG:HG2	1:131:A:GLY:H	14	0.65
(1,927)	1:94:A:ARG:HG3	1:131:A:GLY:H	14	0.65
(1,841)	1:130:A:LEU:HD11	1:132:A:ARG:H	7	0.65
(1,841)	1:130:A:LEU:HD12	1:132:A:ARG:H	7	0.65
(1,841)	1:130:A:LEU:HD13	1:132:A:ARG:H	7	0.65
(1,841)	1:130:A:LEU:HD21	1:132:A:ARG:H	7	0.65
(1,841)	1:130:A:LEU:HD22	1:132:A:ARG:H	7	0.65
(1,841)	1:130:A:LEU:HD23	1:132:A:ARG:H	7	0.65
(1,742)	1:88:A:LEU:HB2	1:93:A:GLU:HG2	17	0.65
(1,742)	1:88:A:LEU:HB2	1:93:A:GLU:HG3	17	0.65
(1,742)	1:88:A:LEU:HB3	1:93:A:GLU:HG2	17	0.65
(1,742)	1:88:A:LEU:HB3	1:93:A:GLU:HG3	17	0.65
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD11	8	0.65
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD12	8	0.65
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD13	8	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD11	8	0.65
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD12	8	0.65
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD13	8	0.65
(1,276)	1:43:A:ILE:HG21	1:47:A:GLN:HA	17	0.65
(1,276)	1:43:A:ILE:HG22	1:47:A:GLN:HA	17	0.65
(1,276)	1:43:A:ILE:HG23	1:47:A:GLN:HA	17	0.65
(1,208)	1:97:A:HIS:HB2	1:131:A:GLY:H	16	0.65
(1,172)	1:159:A:GLY:H	1:162:A:LEU:HD11	16	0.65
(1,172)	1:159:A:GLY:H	1:162:A:LEU:HD12	16	0.65
(1,172)	1:159:A:GLY:H	1:162:A:LEU:HD13	16	0.65
(1,172)	1:159:A:GLY:H	1:162:A:LEU:HD21	16	0.65
(1,172)	1:159:A:GLY:H	1:162:A:LEU:HD22	16	0.65
(1,172)	1:159:A:GLY:H	1:162:A:LEU:HD23	16	0.65
(1,155)	1:92:A:GLN:H	1:149:A:GLY:H	19	0.65
(1,104)	1:70:A:ASN:HD22	1:71:A:ARG:HD2	8	0.65
(1,104)	1:70:A:ASN:HD22	1:71:A:ARG:HD3	8	0.65
(1,102)	1:51:A:GLU:H	1:52:A:GLN:HE21	20	0.65
(1,1058)	1:89:A:ASP:H	1:149:A:GLY:HA2	8	0.64
(1,1017)	1:64:A:LYS:HD2	1:141:A:GLU:HB2	12	0.64
(1,1017)	1:64:A:LYS:HD2	1:141:A:GLU:HB3	12	0.64
(1,1017)	1:64:A:LYS:HD3	1:141:A:GLU:HB2	12	0.64
(1,1017)	1:64:A:LYS:HD3	1:141:A:GLU:HB3	12	0.64
(1,1003)	1:85:A:VAL:HG21	1:99:A:GLY:HA2	8	0.64
(1,1003)	1:85:A:VAL:HG21	1:99:A:GLY:HA3	8	0.64
(1,1003)	1:85:A:VAL:HG22	1:99:A:GLY:HA2	8	0.64
(1,1003)	1:85:A:VAL:HG22	1:99:A:GLY:HA3	8	0.64
(1,1003)	1:85:A:VAL:HG23	1:99:A:GLY:HA2	8	0.64
(1,1003)	1:85:A:VAL:HG23	1:99:A:GLY:HA3	8	0.64
(1,952)	1:89:A:ASP:HA	1:95:A:LEU:HG	14	0.64
(1,773)	1:87:A:PHE:HZ	1:98:A:ALA:H	7	0.64
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD11	11	0.64
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD12	11	0.64
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD13	11	0.64
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD11	11	0.64
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD12	11	0.64
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD13	11	0.64
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD11	15	0.64
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD12	15	0.64
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD13	15	0.64
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD11	15	0.64
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD12	15	0.64
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD13	15	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,478)	1:55:A:PRO:HB2	1:58:A:ALA:HA	8	0.64
(1,478)	1:55:A:PRO:HB3	1:58:A:ALA:HA	8	0.64
(1,311)	1:98:A:ALA:H	1:152:A:GLU:HB2	11	0.64
(1,311)	1:98:A:ALA:H	1:152:A:GLU:HB3	11	0.64
(1,301)	1:88:A:LEU:HA	1:95:A:LEU:HB2	7	0.64
(1,301)	1:88:A:LEU:HA	1:95:A:LEU:HB3	7	0.64
(1,301)	1:88:A:LEU:HA	1:95:A:LEU:HB2	10	0.64
(1,301)	1:88:A:LEU:HA	1:95:A:LEU:HB3	10	0.64
(1,296)	1:80:A:PRO:HG2	1:163:A:ARG:HH11	5	0.64
(1,296)	1:80:A:PRO:HG2	1:163:A:ARG:HH12	5	0.64
(1,296)	1:80:A:PRO:HG3	1:163:A:ARG:HH11	5	0.64
(1,296)	1:80:A:PRO:HG3	1:163:A:ARG:HH12	5	0.64
(1,276)	1:43:A:ILE:HG21	1:47:A:GLN:HA	7	0.64
(1,276)	1:43:A:ILE:HG22	1:47:A:GLN:HA	7	0.64
(1,276)	1:43:A:ILE:HG23	1:47:A:GLN:HA	7	0.64
(1,276)	1:43:A:ILE:HG21	1:47:A:GLN:HA	10	0.64
(1,276)	1:43:A:ILE:HG22	1:47:A:GLN:HA	10	0.64
(1,276)	1:43:A:ILE:HG23	1:47:A:GLN:HA	10	0.64
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB1	11	0.64
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB2	11	0.64
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB3	11	0.64
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB1	14	0.64
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB2	14	0.64
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB3	14	0.64
(1,166)	1:40:A:ALA:H	1:41:A:GLN:HG3	18	0.64
(1,155)	1:92:A:GLN:H	1:149:A:GLY:H	10	0.64
(1,119)	1:87:A:PHE:HD1	1:98:A:ALA:H	5	0.64
(1,119)	1:87:A:PHE:HD2	1:98:A:ALA:H	5	0.64
(1,119)	1:87:A:PHE:HD1	1:98:A:ALA:H	8	0.64
(1,119)	1:87:A:PHE:HD2	1:98:A:ALA:H	8	0.64
(1,111)	1:88:A:LEU:HA	1:150:A:TRP:HZ2	14	0.64
(1,66)	1:152:A:GLU:HA	1:154:A:GLU:H	8	0.64
(1,40)	1:74:A:ASN:HA	1:98:A:ALA:HA	3	0.64
(1,40)	1:74:A:ASN:HA	1:98:A:ALA:HA	10	0.64
(1,1056)	1:83:A:ARG:HD2	1:154:A:GLU:HB2	16	0.63
(1,1056)	1:83:A:ARG:HD2	1:154:A:GLU:HB3	16	0.63
(1,1056)	1:83:A:ARG:HD3	1:154:A:GLU:HB2	16	0.63
(1,1056)	1:83:A:ARG:HD3	1:154:A:GLU:HB3	16	0.63
(1,1003)	1:85:A:VAL:HG21	1:99:A:GLY:HA2	1	0.63
(1,1003)	1:85:A:VAL:HG21	1:99:A:GLY:HA3	1	0.63
(1,1003)	1:85:A:VAL:HG22	1:99:A:GLY:HA2	1	0.63
(1,1003)	1:85:A:VAL:HG22	1:99:A:GLY:HA3	1	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1003)	1:85:A:VAL:HG23	1:99:A:GLY:HA2	1	0.63
(1,1003)	1:85:A:VAL:HG23	1:99:A:GLY:HA3	1	0.63
(1,959)	1:79:A:GLN:HB2	1:111:A:ALA:HA	12	0.63
(1,927)	1:94:A:ARG:HG2	1:131:A:GLY:H	11	0.63
(1,927)	1:94:A:ARG:HG3	1:131:A:GLY:H	11	0.63
(1,927)	1:94:A:ARG:HG2	1:131:A:GLY:H	20	0.63
(1,927)	1:94:A:ARG:HG3	1:131:A:GLY:H	20	0.63
(1,805)	1:41:A:GLN:HE21	1:42:A:LEU:HG	8	0.63
(1,737)	1:47:A:GLN:HE21	1:52:A:GLN:HE21	12	0.63
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD11	2	0.63
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD12	2	0.63
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD13	2	0.63
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD11	2	0.63
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD12	2	0.63
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD13	2	0.63
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD11	12	0.63
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD12	12	0.63
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD13	12	0.63
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD11	12	0.63
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD12	12	0.63
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD13	12	0.63
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD11	13	0.63
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD12	13	0.63
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD13	13	0.63
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD11	13	0.63
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD12	13	0.63
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD13	13	0.63
(1,614)	1:49:A:ILE:HG21	1:55:A:PRO:HG2	15	0.63
(1,614)	1:49:A:ILE:HG21	1:55:A:PRO:HG3	15	0.63
(1,614)	1:49:A:ILE:HG22	1:55:A:PRO:HG2	15	0.63
(1,614)	1:49:A:ILE:HG22	1:55:A:PRO:HG3	15	0.63
(1,614)	1:49:A:ILE:HG23	1:55:A:PRO:HG2	15	0.63
(1,614)	1:49:A:ILE:HG23	1:55:A:PRO:HG3	15	0.63
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG21	13	0.63
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG22	13	0.63
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG23	13	0.63
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG21	13	0.63
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG22	13	0.63
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG23	13	0.63
(1,531)	1:111:A:ALA:HB1	1:114:A:LEU:HB2	17	0.63
(1,531)	1:111:A:ALA:HB1	1:114:A:LEU:HB3	17	0.63
(1,531)	1:111:A:ALA:HB2	1:114:A:LEU:HB2	17	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,531)	1:111:A:ALA:HB2	1:114:A:LEU:HB3	17	0.63
(1,531)	1:111:A:ALA:HB3	1:114:A:LEU:HB2	17	0.63
(1,531)	1:111:A:ALA:HB3	1:114:A:LEU:HB3	17	0.63
(1,495)	1:93:A:GLU:HG2	1:124:A:HIS:HA	5	0.63
(1,495)	1:93:A:GLU:HG3	1:124:A:HIS:HA	5	0.63
(1,478)	1:55:A:PRO:HB2	1:58:A:ALA:HA	18	0.63
(1,478)	1:55:A:PRO:HB3	1:58:A:ALA:HA	18	0.63
(1,328)	1:47:A:GLN:HE21	1:52:A:GLN:H	12	0.63
(1,311)	1:98:A:ALA:H	1:152:A:GLU:HB2	12	0.63
(1,311)	1:98:A:ALA:H	1:152:A:GLU:HB3	12	0.63
(1,276)	1:43:A:ILE:HG21	1:47:A:GLN:HA	6	0.63
(1,276)	1:43:A:ILE:HG22	1:47:A:GLN:HA	6	0.63
(1,276)	1:43:A:ILE:HG23	1:47:A:GLN:HA	6	0.63
(1,234)	1:66:A:THR:HB	1:87:A:PHE:HB2	7	0.63
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB1	20	0.63
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB2	20	0.63
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB3	20	0.63
(1,154)	1:79:A:GLN:HE21	1:111:A:ALA:HA	12	0.63
(1,141)	1:97:A:HIS:HB3	1:103:A:LEU:H	19	0.63
(1,129)	1:70:A:ASN:HB2	1:71:A:ARG:HE	16	0.63
(1,119)	1:87:A:PHE:HD1	1:98:A:ALA:H	4	0.63
(1,119)	1:87:A:PHE:HD2	1:98:A:ALA:H	4	0.63
(1,119)	1:87:A:PHE:HD1	1:98:A:ALA:H	14	0.63
(1,119)	1:87:A:PHE:HD2	1:98:A:ALA:H	14	0.63
(1,119)	1:87:A:PHE:HD1	1:98:A:ALA:H	17	0.63
(1,119)	1:87:A:PHE:HD2	1:98:A:ALA:H	17	0.63
(1,60)	1:47:A:GLN:HE22	1:52:A:GLN:H	14	0.63
(1,27)	1:91:A:ARG:H	1:149:A:GLY:H	7	0.63
(1,1018)	1:70:A:ASN:HD22	1:71:A:ARG:HA	10	0.62
(1,592)	1:57:A:ALA:HA	1:158:A:HIS:HD2	19	0.62
(1,495)	1:93:A:GLU:HG2	1:124:A:HIS:HA	2	0.62
(1,495)	1:93:A:GLU:HG3	1:124:A:HIS:HA	2	0.62
(1,425)	1:42:A:LEU:HA	1:56:A:LEU:HG	11	0.62
(1,377)	1:66:A:THR:HG21	1:70:A:ASN:HB3	10	0.62
(1,377)	1:66:A:THR:HG22	1:70:A:ASN:HB3	10	0.62
(1,377)	1:66:A:THR:HG23	1:70:A:ASN:HB3	10	0.62
(1,276)	1:43:A:ILE:HG21	1:47:A:GLN:HA	8	0.62
(1,276)	1:43:A:ILE:HG22	1:47:A:GLN:HA	8	0.62
(1,276)	1:43:A:ILE:HG23	1:47:A:GLN:HA	8	0.62
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB1	5	0.62
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB2	5	0.62
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB3	5	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,208)	1:97:A:HIS:HB2	1:131:A:GLY:H	3	0.62
(1,141)	1:97:A:HIS:HB3	1:103:A:LEU:H	5	0.62
(1,129)	1:70:A:ASN:HB2	1:71:A:ARG:HE	3	0.62
(1,66)	1:152:A:GLU:HA	1:154:A:GLU:H	11	0.62
(1,1018)	1:70:A:ASN:HD22	1:71:A:ARG:HA	8	0.61
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD11	10	0.61
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD12	10	0.61
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD13	10	0.61
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD21	10	0.61
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD22	10	0.61
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD23	10	0.61
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD11	10	0.61
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD12	10	0.61
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD13	10	0.61
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD21	10	0.61
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD22	10	0.61
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD23	10	0.61
(1,970)	1:138:A:GLY:HA3	1:140:A:THR:HG21	10	0.61
(1,970)	1:138:A:GLY:HA3	1:140:A:THR:HG22	10	0.61
(1,970)	1:138:A:GLY:HA3	1:140:A:THR:HG23	10	0.61
(1,959)	1:79:A:GLN:HB2	1:111:A:ALA:HA	19	0.61
(1,952)	1:89:A:ASP:HA	1:95:A:LEU:HG	5	0.61
(1,882)	1:130:A:LEU:HD11	1:131:A:GLY:H	10	0.61
(1,882)	1:130:A:LEU:HD12	1:131:A:GLY:H	10	0.61
(1,882)	1:130:A:LEU:HD13	1:131:A:GLY:H	10	0.61
(1,882)	1:130:A:LEU:HD21	1:131:A:GLY:H	10	0.61
(1,882)	1:130:A:LEU:HD22	1:131:A:GLY:H	10	0.61
(1,882)	1:130:A:LEU:HD23	1:131:A:GLY:H	10	0.61
(1,822)	1:75:A:GLU:H	1:77:A:LEU:HB2	18	0.61
(1,822)	1:75:A:GLU:H	1:77:A:LEU:HB3	18	0.61
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD11	3	0.61
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD12	3	0.61
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD13	3	0.61
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD11	3	0.61
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD12	3	0.61
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD13	3	0.61
(1,594)	1:139:A:ALA:HA	1:145:A:GLU:HG2	12	0.61
(1,594)	1:139:A:ALA:HA	1:145:A:GLU:HG3	12	0.61
(1,593)	1:79:A:GLN:HG3	1:111:A:ALA:HA	9	0.61
(1,592)	1:57:A:ALA:HA	1:158:A:HIS:HD2	18	0.61
(1,531)	1:111:A:ALA:HB1	1:114:A:LEU:HB2	14	0.61
(1,531)	1:111:A:ALA:HB1	1:114:A:LEU:HB3	14	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,531)	1:111:A:ALA:HB2	1:114:A:LEU:HB2	14	0.61
(1,531)	1:111:A:ALA:HB2	1:114:A:LEU:HB3	14	0.61
(1,531)	1:111:A:ALA:HB3	1:114:A:LEU:HB2	14	0.61
(1,531)	1:111:A:ALA:HB3	1:114:A:LEU:HB3	14	0.61
(1,495)	1:93:A:GLU:HG2	1:124:A:HIS:HA	7	0.61
(1,495)	1:93:A:GLU:HG3	1:124:A:HIS:HA	7	0.61
(1,425)	1:42:A:LEU:HA	1:56:A:LEU:HG	7	0.61
(1,425)	1:42:A:LEU:HA	1:56:A:LEU:HG	10	0.61
(1,379)	1:73:A:ALA:H	1:75:A:GLU:HG2	20	0.61
(1,379)	1:73:A:ALA:H	1:75:A:GLU:HG3	20	0.61
(1,290)	1:106:A:ALA:HA	1:108:A:ALA:H	12	0.61
(1,276)	1:43:A:ILE:HG21	1:47:A:GLN:HA	11	0.61
(1,276)	1:43:A:ILE:HG22	1:47:A:GLN:HA	11	0.61
(1,276)	1:43:A:ILE:HG23	1:47:A:GLN:HA	11	0.61
(1,222)	1:136:A:LEU:HD11	1:138:A:GLY:H	1	0.61
(1,222)	1:136:A:LEU:HD12	1:138:A:GLY:H	1	0.61
(1,222)	1:136:A:LEU:HD13	1:138:A:GLY:H	1	0.61
(1,222)	1:136:A:LEU:HD21	1:138:A:GLY:H	1	0.61
(1,222)	1:136:A:LEU:HD22	1:138:A:GLY:H	1	0.61
(1,222)	1:136:A:LEU:HD23	1:138:A:GLY:H	1	0.61
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB1	3	0.61
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB2	3	0.61
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB3	3	0.61
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB1	13	0.61
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB2	13	0.61
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB3	13	0.61
(1,155)	1:92:A:GLN:H	1:149:A:GLY:H	14	0.61
(1,119)	1:87:A:PHE:HD1	1:98:A:ALA:H	19	0.61
(1,119)	1:87:A:PHE:HD2	1:98:A:ALA:H	19	0.61
(1,48)	1:65:A:ASP:HB3	1:68:A:VAL:HA	11	0.61
(1,1129)	1:81:A:ASP:HB2	1:162:A:LEU:HB2	4	0.6
(1,1129)	1:81:A:ASP:HB2	1:162:A:LEU:HB3	4	0.6
(1,1129)	1:81:A:ASP:HB3	1:162:A:LEU:HB2	4	0.6
(1,1129)	1:81:A:ASP:HB3	1:162:A:LEU:HB3	4	0.6
(1,959)	1:79:A:GLN:HB2	1:111:A:ALA:HA	13	0.6
(1,849)	1:89:A:ASP:H	1:95:A:LEU:HD21	11	0.6
(1,849)	1:89:A:ASP:H	1:95:A:LEU:HD22	11	0.6
(1,849)	1:89:A:ASP:H	1:95:A:LEU:HD23	11	0.6
(1,721)	1:108:A:ALA:HA	1:114:A:LEU:HD11	10	0.6
(1,721)	1:108:A:ALA:HA	1:114:A:LEU:HD12	10	0.6
(1,721)	1:108:A:ALA:HA	1:114:A:LEU:HD13	10	0.6
(1,721)	1:108:A:ALA:HA	1:114:A:LEU:HD21	10	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,721)	1:108:A:ALA:HA	1:114:A:LEU:HD22	10	0.6
(1,721)	1:108:A:ALA:HA	1:114:A:LEU:HD23	10	0.6
(1,593)	1:79:A:GLN:HG3	1:111:A:ALA:HA	13	0.6
(1,478)	1:55:A:PRO:HB2	1:58:A:ALA:HA	1	0.6
(1,478)	1:55:A:PRO:HB3	1:58:A:ALA:HA	1	0.6
(1,478)	1:55:A:PRO:HB2	1:58:A:ALA:HA	2	0.6
(1,478)	1:55:A:PRO:HB3	1:58:A:ALA:HA	2	0.6
(1,478)	1:55:A:PRO:HB2	1:58:A:ALA:HA	17	0.6
(1,478)	1:55:A:PRO:HB3	1:58:A:ALA:HA	17	0.6
(1,276)	1:43:A:ILE:HG21	1:47:A:GLN:HA	16	0.6
(1,276)	1:43:A:ILE:HG22	1:47:A:GLN:HA	16	0.6
(1,276)	1:43:A:ILE:HG23	1:47:A:GLN:HA	16	0.6
(1,172)	1:159:A:GLY:H	1:162:A:LEU:HD11	8	0.6
(1,172)	1:159:A:GLY:H	1:162:A:LEU:HD12	8	0.6
(1,172)	1:159:A:GLY:H	1:162:A:LEU:HD13	8	0.6
(1,172)	1:159:A:GLY:H	1:162:A:LEU:HD21	8	0.6
(1,172)	1:159:A:GLY:H	1:162:A:LEU:HD22	8	0.6
(1,172)	1:159:A:GLY:H	1:162:A:LEU:HD23	8	0.6
(1,141)	1:97:A:HIS:HB3	1:103:A:LEU:H	8	0.6
(1,129)	1:70:A:ASN:HB2	1:71:A:ARG:HE	17	0.6
(1,125)	1:94:A:ARG:HH21	1:104:A:THR:HB	3	0.6
(1,125)	1:94:A:ARG:HH22	1:104:A:THR:HB	3	0.6
(1,111)	1:88:A:LEU:HA	1:150:A:TRP:HZ2	20	0.6
(1,104)	1:70:A:ASN:HD22	1:71:A:ARG:HD2	6	0.6
(1,104)	1:70:A:ASN:HD22	1:71:A:ARG:HD3	6	0.6
(1,1129)	1:81:A:ASP:HB2	1:162:A:LEU:HB2	16	0.59
(1,1129)	1:81:A:ASP:HB2	1:162:A:LEU:HB3	16	0.59
(1,1129)	1:81:A:ASP:HB3	1:162:A:LEU:HB2	16	0.59
(1,1129)	1:81:A:ASP:HB3	1:162:A:LEU:HB3	16	0.59
(1,1058)	1:89:A:ASP:H	1:149:A:GLY:HA2	6	0.59
(1,1056)	1:83:A:ARG:HD2	1:154:A:GLU:HB2	19	0.59
(1,1056)	1:83:A:ARG:HD2	1:154:A:GLU:HB3	19	0.59
(1,1056)	1:83:A:ARG:HD3	1:154:A:GLU:HB2	19	0.59
(1,1056)	1:83:A:ARG:HD3	1:154:A:GLU:HB3	19	0.59
(1,1018)	1:70:A:ASN:HD22	1:71:A:ARG:HA	14	0.59
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG21	9	0.59
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG22	9	0.59
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG23	9	0.59
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG21	6	0.59
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG22	6	0.59
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG23	6	0.59
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG21	6	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG22	6	0.59
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG23	6	0.59
(1,747)	1:64:A:LYS:HG2	1:65:A:ASP:HA	4	0.59
(1,747)	1:64:A:LYS:HG3	1:65:A:ASP:HA	4	0.59
(1,721)	1:108:A:ALA:HA	1:114:A:LEU:HD11	19	0.59
(1,721)	1:108:A:ALA:HA	1:114:A:LEU:HD12	19	0.59
(1,721)	1:108:A:ALA:HA	1:114:A:LEU:HD13	19	0.59
(1,721)	1:108:A:ALA:HA	1:114:A:LEU:HD21	19	0.59
(1,721)	1:108:A:ALA:HA	1:114:A:LEU:HD22	19	0.59
(1,721)	1:108:A:ALA:HA	1:114:A:LEU:HD23	19	0.59
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD11	7	0.59
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD12	7	0.59
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD13	7	0.59
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD21	7	0.59
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD22	7	0.59
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD23	7	0.59
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD11	13	0.59
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD12	13	0.59
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD13	13	0.59
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD21	13	0.59
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD22	13	0.59
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD23	13	0.59
(1,614)	1:49:A:ILE:HG21	1:55:A:PRO:HG2	5	0.59
(1,614)	1:49:A:ILE:HG21	1:55:A:PRO:HG3	5	0.59
(1,614)	1:49:A:ILE:HG22	1:55:A:PRO:HG2	5	0.59
(1,614)	1:49:A:ILE:HG22	1:55:A:PRO:HG3	5	0.59
(1,614)	1:49:A:ILE:HG23	1:55:A:PRO:HG2	5	0.59
(1,614)	1:49:A:ILE:HG23	1:55:A:PRO:HG3	5	0.59
(1,614)	1:49:A:ILE:HG21	1:55:A:PRO:HG2	20	0.59
(1,614)	1:49:A:ILE:HG21	1:55:A:PRO:HG3	20	0.59
(1,614)	1:49:A:ILE:HG22	1:55:A:PRO:HG2	20	0.59
(1,614)	1:49:A:ILE:HG22	1:55:A:PRO:HG3	20	0.59
(1,614)	1:49:A:ILE:HG23	1:55:A:PRO:HG2	20	0.59
(1,614)	1:49:A:ILE:HG23	1:55:A:PRO:HG3	20	0.59
(1,594)	1:139:A:ALA:HA	1:145:A:GLU:HG2	10	0.59
(1,594)	1:139:A:ALA:HA	1:145:A:GLU:HG3	10	0.59
(1,531)	1:111:A:ALA:HB1	1:114:A:LEU:HB2	15	0.59
(1,531)	1:111:A:ALA:HB1	1:114:A:LEU:HB3	15	0.59
(1,531)	1:111:A:ALA:HB2	1:114:A:LEU:HB2	15	0.59
(1,531)	1:111:A:ALA:HB2	1:114:A:LEU:HB3	15	0.59
(1,531)	1:111:A:ALA:HB3	1:114:A:LEU:HB2	15	0.59
(1,531)	1:111:A:ALA:HB3	1:114:A:LEU:HB3	15	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,311)	1:98:A:ALA:H	1:152:A:GLU:HB2	4	0.59
(1,311)	1:98:A:ALA:H	1:152:A:GLU:HB3	4	0.59
(1,311)	1:98:A:ALA:H	1:152:A:GLU:HB2	20	0.59
(1,311)	1:98:A:ALA:H	1:152:A:GLU:HB3	20	0.59
(1,301)	1:88:A:LEU:HA	1:95:A:LEU:HB2	19	0.59
(1,301)	1:88:A:LEU:HA	1:95:A:LEU:HB3	19	0.59
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD11	16	0.59
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD12	16	0.59
(1,289)	1:46:A:GLY:H	1:49:A:ILE:HD13	16	0.59
(1,276)	1:43:A:ILE:HG21	1:47:A:GLN:HA	3	0.59
(1,276)	1:43:A:ILE:HG22	1:47:A:GLN:HA	3	0.59
(1,276)	1:43:A:ILE:HG23	1:47:A:GLN:HA	3	0.59
(1,276)	1:43:A:ILE:HG21	1:47:A:GLN:HA	12	0.59
(1,276)	1:43:A:ILE:HG22	1:47:A:GLN:HA	12	0.59
(1,276)	1:43:A:ILE:HG23	1:47:A:GLN:HA	12	0.59
(1,226)	1:65:A:ASP:H	1:66:A:THR:HA	3	0.59
(1,212)	1:47:A:GLN:H	1:51:A:GLU:H	6	0.59
(1,176)	1:158:A:HIS:H	1:162:A:LEU:HD11	12	0.59
(1,176)	1:158:A:HIS:H	1:162:A:LEU:HD12	12	0.59
(1,176)	1:158:A:HIS:H	1:162:A:LEU:HD13	12	0.59
(1,176)	1:158:A:HIS:H	1:162:A:LEU:HD21	12	0.59
(1,176)	1:158:A:HIS:H	1:162:A:LEU:HD22	12	0.59
(1,176)	1:158:A:HIS:H	1:162:A:LEU:HD23	12	0.59
(1,141)	1:97:A:HIS:HB3	1:103:A:LEU:H	12	0.59
(1,119)	1:87:A:PHE:HD1	1:98:A:ALA:H	13	0.59
(1,119)	1:87:A:PHE:HD2	1:98:A:ALA:H	13	0.59
(1,115)	1:94:A:ARG:HA	1:124:A:HIS:H	3	0.59
(1,113)	1:157:A:HIS:H	1:157:A:HIS:HD2	20	0.59
(1,111)	1:88:A:LEU:HA	1:150:A:TRP:HZ2	11	0.59
(1,996)	1:138:A:GLY:H	1:140:A:THR:HG21	4	0.58
(1,996)	1:138:A:GLY:H	1:140:A:THR:HG22	4	0.58
(1,996)	1:138:A:GLY:H	1:140:A:THR:HG23	4	0.58
(1,805)	1:41:A:GLN:HE21	1:42:A:LEU:HG	2	0.58
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG21	9	0.58
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG22	9	0.58
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG23	9	0.58
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG21	9	0.58
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG22	9	0.58
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG23	9	0.58
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG21	9	0.58
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG22	9	0.58
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG23	9	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,742)	1:88:A:LEU:HB2	1:93:A:GLU:HG2	5	0.58
(1,742)	1:88:A:LEU:HB2	1:93:A:GLU:HG3	5	0.58
(1,742)	1:88:A:LEU:HB3	1:93:A:GLU:HG2	5	0.58
(1,742)	1:88:A:LEU:HB3	1:93:A:GLU:HG3	5	0.58
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD11	20	0.58
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD12	20	0.58
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD13	20	0.58
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD21	20	0.58
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD22	20	0.58
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD23	20	0.58
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD11	20	0.58
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD12	20	0.58
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD13	20	0.58
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD21	20	0.58
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD22	20	0.58
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD23	20	0.58
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD11	20	0.58
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD12	20	0.58
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD13	20	0.58
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD21	20	0.58
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD22	20	0.58
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD23	20	0.58
(1,695)	1:42:A:LEU:HA	1:56:A:LEU:HB2	9	0.58
(1,695)	1:42:A:LEU:HA	1:56:A:LEU:HB3	9	0.58
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD11	14	0.58
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD12	14	0.58
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD13	14	0.58
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD11	14	0.58
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD12	14	0.58
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD13	14	0.58
(1,614)	1:49:A:ILE:HG21	1:55:A:PRO:HG2	9	0.58
(1,614)	1:49:A:ILE:HG21	1:55:A:PRO:HG3	9	0.58
(1,614)	1:49:A:ILE:HG22	1:55:A:PRO:HG2	9	0.58
(1,614)	1:49:A:ILE:HG22	1:55:A:PRO:HG3	9	0.58
(1,614)	1:49:A:ILE:HG23	1:55:A:PRO:HG2	9	0.58
(1,614)	1:49:A:ILE:HG23	1:55:A:PRO:HG3	9	0.58
(1,531)	1:111:A:ALA:HB1	1:114:A:LEU:HB2	13	0.58
(1,531)	1:111:A:ALA:HB1	1:114:A:LEU:HB3	13	0.58
(1,531)	1:111:A:ALA:HB2	1:114:A:LEU:HB2	13	0.58
(1,531)	1:111:A:ALA:HB2	1:114:A:LEU:HB3	13	0.58
(1,531)	1:111:A:ALA:HB3	1:114:A:LEU:HB2	13	0.58
(1,531)	1:111:A:ALA:HB3	1:114:A:LEU:HB3	13	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,247)	1:74:A:ASN:H	1:75:A:GLU:HG2	4	0.58
(1,247)	1:74:A:ASN:H	1:75:A:GLU:HG3	4	0.58
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB1	9	0.58
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB2	9	0.58
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB3	9	0.58
(1,179)	1:49:A:ILE:HG21	1:54:A:ALA:HA	17	0.58
(1,179)	1:49:A:ILE:HG22	1:54:A:ALA:HA	17	0.58
(1,179)	1:49:A:ILE:HG23	1:54:A:ALA:HA	17	0.58
(1,102)	1:51:A:GLU:H	1:52:A:GLN:HE21	12	0.58
(1,27)	1:91:A:ARG:H	1:149:A:GLY:H	5	0.58
(1,27)	1:91:A:ARG:H	1:149:A:GLY:H	10	0.58
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD11	20	0.57
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD12	20	0.57
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD13	20	0.57
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD21	20	0.57
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD22	20	0.57
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD23	20	0.57
(1,1018)	1:70:A:ASN:HD22	1:71:A:ARG:HA	7	0.57
(1,1018)	1:70:A:ASN:HD22	1:71:A:ARG:HA	11	0.57
(1,1018)	1:70:A:ASN:HD22	1:71:A:ARG:HA	13	0.57
(1,973)	1:119:A:GLU:HB2	1:122:A:THR:H	16	0.57
(1,973)	1:119:A:GLU:HB3	1:122:A:THR:H	16	0.57
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG21	17	0.57
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG22	17	0.57
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG23	17	0.57
(1,805)	1:41:A:GLN:HE21	1:42:A:LEU:HG	12	0.57
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD11	1	0.57
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD12	1	0.57
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD13	1	0.57
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD11	1	0.57
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD12	1	0.57
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD13	1	0.57
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD11	7	0.57
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD12	7	0.57
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD13	7	0.57
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD11	7	0.57
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD12	7	0.57
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD13	7	0.57
(1,592)	1:57:A:ALA:HA	1:158:A:HIS:HD2	9	0.57
(1,377)	1:66:A:THR:HG21	1:70:A:ASN:HB3	7	0.57
(1,377)	1:66:A:THR:HG22	1:70:A:ASN:HB3	7	0.57
(1,377)	1:66:A:THR:HG23	1:70:A:ASN:HB3	7	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,301)	1:88:A:LEU:HA	1:95:A:LEU:HB2	13	0.57
(1,301)	1:88:A:LEU:HA	1:95:A:LEU:HB3	13	0.57
(1,276)	1:43:A:ILE:HG21	1:47:A:GLN:HA	2	0.57
(1,276)	1:43:A:ILE:HG22	1:47:A:GLN:HA	2	0.57
(1,276)	1:43:A:ILE:HG23	1:47:A:GLN:HA	2	0.57
(1,249)	1:139:A:ALA:H	1:147:A:VAL:HG21	12	0.57
(1,249)	1:139:A:ALA:H	1:147:A:VAL:HG22	12	0.57
(1,249)	1:139:A:ALA:H	1:147:A:VAL:HG23	12	0.57
(1,247)	1:74:A:ASN:H	1:75:A:GLU:HG2	16	0.57
(1,247)	1:74:A:ASN:H	1:75:A:GLU:HG3	16	0.57
(1,226)	1:65:A:ASP:H	1:66:A:THR:HA	2	0.57
(1,226)	1:65:A:ASP:H	1:66:A:THR:HA	8	0.57
(1,226)	1:65:A:ASP:H	1:66:A:THR:HA	12	0.57
(1,226)	1:65:A:ASP:H	1:66:A:THR:HA	17	0.57
(1,212)	1:47:A:GLN:H	1:51:A:GLU:H	10	0.57
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB1	6	0.57
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB2	6	0.57
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB3	6	0.57
(1,172)	1:159:A:GLY:H	1:162:A:LEU:HD11	1	0.57
(1,172)	1:159:A:GLY:H	1:162:A:LEU:HD12	1	0.57
(1,172)	1:159:A:GLY:H	1:162:A:LEU:HD13	1	0.57
(1,172)	1:159:A:GLY:H	1:162:A:LEU:HD21	1	0.57
(1,172)	1:159:A:GLY:H	1:162:A:LEU:HD22	1	0.57
(1,172)	1:159:A:GLY:H	1:162:A:LEU:HD23	1	0.57
(1,166)	1:40:A:ALA:H	1:41:A:GLN:HG3	6	0.57
(1,119)	1:87:A:PHE:HD1	1:98:A:ALA:H	1	0.57
(1,119)	1:87:A:PHE:HD2	1:98:A:ALA:H	1	0.57
(1,119)	1:87:A:PHE:HD1	1:98:A:ALA:H	12	0.57
(1,119)	1:87:A:PHE:HD2	1:98:A:ALA:H	12	0.57
(1,102)	1:51:A:GLU:H	1:52:A:GLN:HE21	13	0.57
(1,90)	1:87:A:PHE:HE1	1:98:A:ALA:H	5	0.57
(1,90)	1:87:A:PHE:HE2	1:98:A:ALA:H	5	0.57
(1,90)	1:87:A:PHE:HE1	1:98:A:ALA:H	15	0.57
(1,90)	1:87:A:PHE:HE2	1:98:A:ALA:H	15	0.57
(1,60)	1:47:A:GLN:HE22	1:52:A:GLN:H	13	0.57
(1,45)	1:94:A:ARG:H	1:125:A:PHE:H	5	0.57
(1,1058)	1:89:A:ASP:H	1:149:A:GLY:HA2	7	0.56
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG21	14	0.56
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG22	14	0.56
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG23	14	0.56
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG21	14	0.56
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG22	14	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG23	14	0.56
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB1	18	0.56
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB2	18	0.56
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB3	18	0.56
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD11	4	0.56
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD12	4	0.56
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD13	4	0.56
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD11	4	0.56
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD12	4	0.56
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD13	4	0.56
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD11	10	0.56
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD12	10	0.56
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD13	10	0.56
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD11	10	0.56
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD12	10	0.56
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD13	10	0.56
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG21	15	0.56
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG22	15	0.56
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG23	15	0.56
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG21	15	0.56
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG22	15	0.56
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG23	15	0.56
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG21	18	0.56
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG22	18	0.56
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG23	18	0.56
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG21	18	0.56
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG22	18	0.56
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG23	18	0.56
(1,593)	1:79:A:GLN:HG3	1:111:A:ALA:HA	4	0.56
(1,592)	1:57:A:ALA:HA	1:158:A:HIS:HD2	12	0.56
(1,442)	1:141:A:GLU:HB2	1:145:A:GLU:H	12	0.56
(1,442)	1:141:A:GLU:HB3	1:145:A:GLU:H	12	0.56
(1,377)	1:66:A:THR:HG21	1:70:A:ASN:HB3	20	0.56
(1,377)	1:66:A:THR:HG22	1:70:A:ASN:HB3	20	0.56
(1,377)	1:66:A:THR:HG23	1:70:A:ASN:HB3	20	0.56
(1,267)	1:43:A:ILE:HG21	1:52:A:GLN:HB2	9	0.56
(1,267)	1:43:A:ILE:HG21	1:52:A:GLN:HB3	9	0.56
(1,267)	1:43:A:ILE:HG22	1:52:A:GLN:HB2	9	0.56
(1,267)	1:43:A:ILE:HG22	1:52:A:GLN:HB3	9	0.56
(1,267)	1:43:A:ILE:HG23	1:52:A:GLN:HB2	9	0.56
(1,267)	1:43:A:ILE:HG23	1:52:A:GLN:HB3	9	0.56
(1,234)	1:66:A:THR:HB	1:87:A:PHE:HB2	10	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,234)	1:66:A:THR:HB	1:87:A:PHE:HB2	19	0.56
(1,226)	1:65:A:ASP:H	1:66:A:THR:HA	6	0.56
(1,166)	1:40:A:ALA:H	1:41:A:GLN:HG3	19	0.56
(1,110)	1:71:A:ARG:HD2	1:72:A:ILE:H	19	0.56
(1,110)	1:71:A:ARG:HD3	1:72:A:ILE:H	19	0.56
(1,40)	1:74:A:ASN:HA	1:98:A:ALA:HA	4	0.56
(1,27)	1:91:A:ARG:H	1:149:A:GLY:H	19	0.56
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG21	16	0.55
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG22	16	0.55
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG23	16	0.55
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG21	16	0.55
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG22	16	0.55
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG23	16	0.55
(1,1058)	1:89:A:ASP:H	1:149:A:GLY:HA2	5	0.55
(1,1056)	1:83:A:ARG:HD2	1:154:A:GLU:HB2	18	0.55
(1,1056)	1:83:A:ARG:HD2	1:154:A:GLU:HB3	18	0.55
(1,1056)	1:83:A:ARG:HD3	1:154:A:GLU:HB2	18	0.55
(1,1056)	1:83:A:ARG:HD3	1:154:A:GLU:HB3	18	0.55
(1,1018)	1:70:A:ASN:HD22	1:71:A:ARG:HA	20	0.55
(1,998)	1:61:A:LEU:HA	1:65:A:ASP:H	8	0.55
(1,805)	1:41:A:GLN:HE21	1:42:A:LEU:HG	5	0.55
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG21	18	0.55
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG22	18	0.55
(1,745)	1:60:A:ALA:HB1	1:68:A:VAL:HG23	18	0.55
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG21	18	0.55
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG22	18	0.55
(1,745)	1:60:A:ALA:HB2	1:68:A:VAL:HG23	18	0.55
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG21	18	0.55
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG22	18	0.55
(1,745)	1:60:A:ALA:HB3	1:68:A:VAL:HG23	18	0.55
(1,614)	1:49:A:ILE:HG21	1:55:A:PRO:HG2	10	0.55
(1,614)	1:49:A:ILE:HG21	1:55:A:PRO:HG3	10	0.55
(1,614)	1:49:A:ILE:HG22	1:55:A:PRO:HG2	10	0.55
(1,614)	1:49:A:ILE:HG22	1:55:A:PRO:HG3	10	0.55
(1,614)	1:49:A:ILE:HG23	1:55:A:PRO:HG2	10	0.55
(1,614)	1:49:A:ILE:HG23	1:55:A:PRO:HG3	10	0.55
(1,614)	1:49:A:ILE:HG21	1:55:A:PRO:HG2	12	0.55
(1,614)	1:49:A:ILE:HG21	1:55:A:PRO:HG3	12	0.55
(1,614)	1:49:A:ILE:HG22	1:55:A:PRO:HG2	12	0.55
(1,614)	1:49:A:ILE:HG22	1:55:A:PRO:HG3	12	0.55
(1,614)	1:49:A:ILE:HG23	1:55:A:PRO:HG2	12	0.55
(1,614)	1:49:A:ILE:HG23	1:55:A:PRO:HG3	12	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG21	6	0.55
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG22	6	0.55
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG23	6	0.55
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG21	6	0.55
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG22	6	0.55
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG23	6	0.55
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD21	7	0.55
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD22	7	0.55
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD23	7	0.55
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD21	7	0.55
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD22	7	0.55
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD23	7	0.55
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD21	7	0.55
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD22	7	0.55
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD23	7	0.55
(1,593)	1:79:A:GLN:HG3	1:111:A:ALA:HA	10	0.55
(1,592)	1:57:A:ALA:HA	1:158:A:HIS:HD2	6	0.55
(1,539)	1:70:A:ASN:HD22	1:74:A:ASN:HB2	7	0.55
(1,535)	1:110:A:ASP:HB2	1:112:A:SER:H	1	0.55
(1,535)	1:110:A:ASP:HB3	1:112:A:SER:H	1	0.55
(1,506)	1:60:A:ALA:HB1	1:65:A:ASP:HB2	11	0.55
(1,506)	1:60:A:ALA:HB2	1:65:A:ASP:HB2	11	0.55
(1,506)	1:60:A:ALA:HB3	1:65:A:ASP:HB2	11	0.55
(1,377)	1:66:A:THR:HG21	1:70:A:ASN:HB3	2	0.55
(1,377)	1:66:A:THR:HG22	1:70:A:ASN:HB3	2	0.55
(1,377)	1:66:A:THR:HG23	1:70:A:ASN:HB3	2	0.55
(1,226)	1:65:A:ASP:H	1:66:A:THR:HA	15	0.55
(1,226)	1:65:A:ASP:H	1:66:A:THR:HA	19	0.55
(1,194)	1:64:A:LYS:HE2	1:69:A:LEU:HD21	15	0.55
(1,194)	1:64:A:LYS:HE2	1:69:A:LEU:HD22	15	0.55
(1,194)	1:64:A:LYS:HE2	1:69:A:LEU:HD23	15	0.55
(1,194)	1:64:A:LYS:HE3	1:69:A:LEU:HD21	15	0.55
(1,194)	1:64:A:LYS:HE3	1:69:A:LEU:HD22	15	0.55
(1,194)	1:64:A:LYS:HE3	1:69:A:LEU:HD23	15	0.55
(1,166)	1:40:A:ALA:H	1:41:A:GLN:HG3	16	0.55
(1,119)	1:87:A:PHE:HD1	1:98:A:ALA:H	2	0.55
(1,119)	1:87:A:PHE:HD2	1:98:A:ALA:H	2	0.55
(1,110)	1:71:A:ARG:HD2	1:72:A:ILE:H	20	0.55
(1,110)	1:71:A:ARG:HD3	1:72:A:ILE:H	20	0.55
(1,40)	1:74:A:ASN:HA	1:98:A:ALA:HA	15	0.55
(1,1018)	1:70:A:ASN:HD22	1:71:A:ARG:HA	3	0.54
(1,1018)	1:70:A:ASN:HD22	1:71:A:ARG:HA	19	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,841)	1:130:A:LEU:HD11	1:132:A:ARG:H	12	0.54
(1,841)	1:130:A:LEU:HD12	1:132:A:ARG:H	12	0.54
(1,841)	1:130:A:LEU:HD13	1:132:A:ARG:H	12	0.54
(1,841)	1:130:A:LEU:HD21	1:132:A:ARG:H	12	0.54
(1,841)	1:130:A:LEU:HD22	1:132:A:ARG:H	12	0.54
(1,841)	1:130:A:LEU:HD23	1:132:A:ARG:H	12	0.54
(1,841)	1:130:A:LEU:HD11	1:132:A:ARG:H	20	0.54
(1,841)	1:130:A:LEU:HD12	1:132:A:ARG:H	20	0.54
(1,841)	1:130:A:LEU:HD13	1:132:A:ARG:H	20	0.54
(1,841)	1:130:A:LEU:HD21	1:132:A:ARG:H	20	0.54
(1,841)	1:130:A:LEU:HD22	1:132:A:ARG:H	20	0.54
(1,841)	1:130:A:LEU:HD23	1:132:A:ARG:H	20	0.54
(1,811)	1:74:A:ASN:H	1:77:A:LEU:HB2	16	0.54
(1,811)	1:74:A:ASN:H	1:77:A:LEU:HB3	16	0.54
(1,805)	1:41:A:GLN:HE21	1:42:A:LEU:HG	11	0.54
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB1	10	0.54
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB2	10	0.54
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB3	10	0.54
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG21	5	0.54
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG22	5	0.54
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG23	5	0.54
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG21	5	0.54
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG22	5	0.54
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG23	5	0.54
(1,594)	1:139:A:ALA:HA	1:145:A:GLU:HG2	5	0.54
(1,594)	1:139:A:ALA:HA	1:145:A:GLU:HG3	5	0.54
(1,592)	1:57:A:ALA:HA	1:158:A:HIS:HD2	4	0.54
(1,592)	1:57:A:ALA:HA	1:158:A:HIS:HD2	11	0.54
(1,531)	1:111:A:ALA:HB1	1:114:A:LEU:HB2	6	0.54
(1,531)	1:111:A:ALA:HB1	1:114:A:LEU:HB3	6	0.54
(1,531)	1:111:A:ALA:HB2	1:114:A:LEU:HB2	6	0.54
(1,531)	1:111:A:ALA:HB2	1:114:A:LEU:HB3	6	0.54
(1,531)	1:111:A:ALA:HB3	1:114:A:LEU:HB2	6	0.54
(1,531)	1:111:A:ALA:HB3	1:114:A:LEU:HB3	6	0.54
(1,511)	1:146:A:ARG:HE	1:147:A:VAL:HG11	12	0.54
(1,511)	1:146:A:ARG:HE	1:147:A:VAL:HG12	12	0.54
(1,511)	1:146:A:ARG:HE	1:147:A:VAL:HG13	12	0.54
(1,495)	1:93:A:GLU:HG2	1:124:A:HIS:HA	4	0.54
(1,495)	1:93:A:GLU:HG3	1:124:A:HIS:HA	4	0.54
(1,495)	1:93:A:GLU:HG2	1:124:A:HIS:HA	19	0.54
(1,495)	1:93:A:GLU:HG3	1:124:A:HIS:HA	19	0.54
(1,379)	1:73:A:ALA:H	1:75:A:GLU:HG2	4	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,379)	1:73:A:ALA:H	1:75:A:GLU:HG3	4	0.54
(1,379)	1:73:A:ALA:H	1:75:A:GLU:HG2	13	0.54
(1,379)	1:73:A:ALA:H	1:75:A:GLU:HG3	13	0.54
(1,301)	1:88:A:LEU:HA	1:95:A:LEU:HB2	14	0.54
(1,301)	1:88:A:LEU:HA	1:95:A:LEU:HB3	14	0.54
(1,301)	1:88:A:LEU:HA	1:95:A:LEU:HB2	18	0.54
(1,301)	1:88:A:LEU:HA	1:95:A:LEU:HB3	18	0.54
(1,290)	1:106:A:ALA:HA	1:108:A:ALA:H	19	0.54
(1,208)	1:97:A:HIS:HB2	1:131:A:GLY:H	5	0.54
(1,166)	1:40:A:ALA:H	1:41:A:GLN:HG3	3	0.54
(1,166)	1:40:A:ALA:H	1:41:A:GLN:HG3	11	0.54
(1,166)	1:40:A:ALA:H	1:41:A:GLN:HG3	12	0.54
(1,115)	1:94:A:ARG:HA	1:124:A:HIS:H	13	0.54
(1,68)	1:162:A:LEU:HA	1:163:A:ARG:HH11	10	0.54
(1,68)	1:162:A:LEU:HA	1:163:A:ARG:HH12	10	0.54
(1,27)	1:91:A:ARG:H	1:149:A:GLY:H	15	0.54
(1,1129)	1:81:A:ASP:HB2	1:162:A:LEU:HB2	2	0.53
(1,1129)	1:81:A:ASP:HB2	1:162:A:LEU:HB3	2	0.53
(1,1129)	1:81:A:ASP:HB3	1:162:A:LEU:HB2	2	0.53
(1,1129)	1:81:A:ASP:HB3	1:162:A:LEU:HB3	2	0.53
(1,1058)	1:89:A:ASP:H	1:149:A:GLY:HA2	18	0.53
(1,1041)	1:81:A:ASP:HA	1:164:A:GLY:HA2	16	0.53
(1,1041)	1:81:A:ASP:HA	1:164:A:GLY:HA3	16	0.53
(1,998)	1:61:A:LEU:HA	1:65:A:ASP:H	7	0.53
(1,959)	1:79:A:GLN:HB2	1:111:A:ALA:HA	7	0.53
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG21	5	0.53
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG22	5	0.53
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG23	5	0.53
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG21	5	0.53
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG22	5	0.53
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG23	5	0.53
(1,805)	1:41:A:GLN:HE21	1:42:A:LEU:HG	13	0.53
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG21	20	0.53
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG22	20	0.53
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG23	20	0.53
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD21	20	0.53
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD22	20	0.53
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD23	20	0.53
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD21	20	0.53
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD22	20	0.53
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD23	20	0.53
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD21	20	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD22	20	0.53
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD23	20	0.53
(1,592)	1:57:A:ALA:HA	1:158:A:HIS:HD2	8	0.53
(1,357)	1:61:A:LEU:HD11	1:64:A:LYS:H	18	0.53
(1,357)	1:61:A:LEU:HD12	1:64:A:LYS:H	18	0.53
(1,357)	1:61:A:LEU:HD13	1:64:A:LYS:H	18	0.53
(1,247)	1:74:A:ASN:H	1:75:A:GLU:HG2	18	0.53
(1,247)	1:74:A:ASN:H	1:75:A:GLU:HG3	18	0.53
(1,234)	1:66:A:THR:HB	1:87:A:PHE:HB2	12	0.53
(1,166)	1:40:A:ALA:H	1:41:A:GLN:HG3	2	0.53
(1,129)	1:70:A:ASN:HB2	1:71:A:ARG:HE	1	0.53
(1,129)	1:70:A:ASN:HB2	1:71:A:ARG:HE	13	0.53
(1,121)	1:41:A:GLN:HE21	1:42:A:LEU:HB2	11	0.53
(1,115)	1:94:A:ARG:HA	1:124:A:HIS:H	14	0.53
(1,110)	1:71:A:ARG:HD2	1:72:A:ILE:H	11	0.53
(1,110)	1:71:A:ARG:HD3	1:72:A:ILE:H	11	0.53
(1,90)	1:87:A:PHE:HE1	1:98:A:ALA:H	4	0.53
(1,90)	1:87:A:PHE:HE2	1:98:A:ALA:H	4	0.53
(1,90)	1:87:A:PHE:HE1	1:98:A:ALA:H	6	0.53
(1,90)	1:87:A:PHE:HE2	1:98:A:ALA:H	6	0.53
(1,90)	1:87:A:PHE:HE1	1:98:A:ALA:H	14	0.53
(1,90)	1:87:A:PHE:HE2	1:98:A:ALA:H	14	0.53
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG21	7	0.53
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG22	7	0.53
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG23	7	0.53
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG21	12	0.52
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG22	12	0.52
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG23	12	0.52
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG21	12	0.52
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG22	12	0.52
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG23	12	0.52
(1,816)	1:51:A:GLU:HB2	1:52:A:GLN:HE21	15	0.52
(1,816)	1:51:A:GLU:HB3	1:52:A:GLN:HE21	15	0.52
(1,721)	1:108:A:ALA:HA	1:114:A:LEU:HD11	12	0.52
(1,721)	1:108:A:ALA:HA	1:114:A:LEU:HD12	12	0.52
(1,721)	1:108:A:ALA:HA	1:114:A:LEU:HD13	12	0.52
(1,721)	1:108:A:ALA:HA	1:114:A:LEU:HD21	12	0.52
(1,721)	1:108:A:ALA:HA	1:114:A:LEU:HD22	12	0.52
(1,721)	1:108:A:ALA:HA	1:114:A:LEU:HD23	12	0.52
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD11	3	0.52
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD12	3	0.52
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD13	3	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD21	3	0.52
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD22	3	0.52
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD23	3	0.52
(1,528)	1:79:A:GLN:H	1:111:A:ALA:HA	5	0.52
(1,379)	1:73:A:ALA:H	1:75:A:GLU:HG2	18	0.52
(1,379)	1:73:A:ALA:H	1:75:A:GLU:HG3	18	0.52
(1,354)	1:76:A:ALA:HB1	1:79:A:GLN:HE22	15	0.52
(1,354)	1:76:A:ALA:HB2	1:79:A:GLN:HE22	15	0.52
(1,354)	1:76:A:ALA:HB3	1:79:A:GLN:HE22	15	0.52
(1,291)	1:97:A:HIS:H	1:97:A:HIS:HD2	20	0.52
(1,226)	1:65:A:ASP:H	1:66:A:THR:HA	5	0.52
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB1	8	0.52
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB2	8	0.52
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB3	8	0.52
(1,166)	1:40:A:ALA:H	1:41:A:GLN:HG3	14	0.52
(1,155)	1:92:A:GLN:H	1:149:A:GLY:H	13	0.52
(1,141)	1:97:A:HIS:HB3	1:103:A:LEU:H	7	0.52
(1,119)	1:87:A:PHE:HD1	1:98:A:ALA:H	11	0.52
(1,119)	1:87:A:PHE:HD2	1:98:A:ALA:H	11	0.52
(1,119)	1:87:A:PHE:HD1	1:98:A:ALA:H	20	0.52
(1,119)	1:87:A:PHE:HD2	1:98:A:ALA:H	20	0.52
(1,115)	1:94:A:ARG:HA	1:124:A:HIS:H	6	0.52
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG21	16	0.52
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG22	16	0.52
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG23	16	0.52
(1,40)	1:74:A:ASN:HA	1:98:A:ALA:HA	2	0.52
(1,27)	1:91:A:ARG:H	1:149:A:GLY:H	6	0.52
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD11	8	0.51
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD12	8	0.51
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD13	8	0.51
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD21	8	0.51
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD22	8	0.51
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD23	8	0.51
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD11	8	0.51
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD12	8	0.51
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD13	8	0.51
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD21	8	0.51
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD22	8	0.51
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD23	8	0.51
(1,1017)	1:64:A:LYS:HD2	1:141:A:GLU:HB2	7	0.51
(1,1017)	1:64:A:LYS:HD2	1:141:A:GLU:HB3	7	0.51
(1,1017)	1:64:A:LYS:HD3	1:141:A:GLU:HB2	7	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1017)	1:64:A:LYS:HD3	1:141:A:GLU:HB3	7	0.51
(1,996)	1:138:A:GLY:H	1:140:A:THR:HG21	12	0.51
(1,996)	1:138:A:GLY:H	1:140:A:THR:HG22	12	0.51
(1,996)	1:138:A:GLY:H	1:140:A:THR:HG23	12	0.51
(1,989)	1:119:A:GLU:HG2	1:122:A:THR:H	19	0.51
(1,989)	1:119:A:GLU:HG3	1:122:A:THR:H	19	0.51
(1,959)	1:79:A:GLN:HB2	1:111:A:ALA:HA	14	0.51
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD11	20	0.51
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD12	20	0.51
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD13	20	0.51
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD11	20	0.51
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD12	20	0.51
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD13	20	0.51
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG21	14	0.51
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG22	14	0.51
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG23	14	0.51
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG21	16	0.51
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG22	16	0.51
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG23	16	0.51
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG21	16	0.51
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG22	16	0.51
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG23	16	0.51
(1,495)	1:93:A:GLU:HG2	1:124:A:HIS:HA	15	0.51
(1,495)	1:93:A:GLU:HG3	1:124:A:HIS:HA	15	0.51
(1,455)	1:61:A:LEU:HD21	1:63:A:ARG:H	7	0.51
(1,455)	1:61:A:LEU:HD22	1:63:A:ARG:H	7	0.51
(1,455)	1:61:A:LEU:HD23	1:63:A:ARG:H	7	0.51
(1,436)	1:90:A:ALA:HB1	1:148:A:LEU:H	9	0.51
(1,436)	1:90:A:ALA:HB2	1:148:A:LEU:H	9	0.51
(1,436)	1:90:A:ALA:HB3	1:148:A:LEU:H	9	0.51
(1,425)	1:42:A:LEU:HA	1:56:A:LEU:HG	15	0.51
(1,379)	1:73:A:ALA:H	1:75:A:GLU:HG2	12	0.51
(1,379)	1:73:A:ALA:H	1:75:A:GLU:HG3	12	0.51
(1,379)	1:73:A:ALA:H	1:75:A:GLU:HG2	16	0.51
(1,379)	1:73:A:ALA:H	1:75:A:GLU:HG3	16	0.51
(1,354)	1:76:A:ALA:HB1	1:79:A:GLN:HE22	10	0.51
(1,354)	1:76:A:ALA:HB2	1:79:A:GLN:HE22	10	0.51
(1,354)	1:76:A:ALA:HB3	1:79:A:GLN:HE22	10	0.51
(1,305)	1:93:A:GLU:HA	1:94:A:ARG:HD2	12	0.51
(1,305)	1:93:A:GLU:HA	1:94:A:ARG:HD3	12	0.51
(1,234)	1:66:A:THR:HB	1:87:A:PHE:HB2	8	0.51
(1,226)	1:65:A:ASP:H	1:66:A:THR:HA	13	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,226)	1:65:A:ASP:H	1:66:A:THR:HA	14	0.51
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB1	2	0.51
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB2	2	0.51
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB3	2	0.51
(1,208)	1:97:A:HIS:HB2	1:131:A:GLY:H	19	0.51
(1,194)	1:64:A:LYS:HE2	1:69:A:LEU:HD21	12	0.51
(1,194)	1:64:A:LYS:HE2	1:69:A:LEU:HD22	12	0.51
(1,194)	1:64:A:LYS:HE2	1:69:A:LEU:HD23	12	0.51
(1,194)	1:64:A:LYS:HE3	1:69:A:LEU:HD21	12	0.51
(1,194)	1:64:A:LYS:HE3	1:69:A:LEU:HD22	12	0.51
(1,194)	1:64:A:LYS:HE3	1:69:A:LEU:HD23	12	0.51
(1,179)	1:49:A:ILE:HG21	1:54:A:ALA:HA	9	0.51
(1,179)	1:49:A:ILE:HG22	1:54:A:ALA:HA	9	0.51
(1,179)	1:49:A:ILE:HG23	1:54:A:ALA:HA	9	0.51
(1,141)	1:97:A:HIS:HB3	1:103:A:LEU:H	10	0.51
(1,139)	1:83:A:ARG:HG2	1:154:A:GLU:HA	15	0.51
(1,139)	1:83:A:ARG:HG3	1:154:A:GLU:HA	15	0.51
(1,125)	1:94:A:ARG:HH21	1:104:A:THR:HB	1	0.51
(1,125)	1:94:A:ARG:HH22	1:104:A:THR:HB	1	0.51
(1,110)	1:71:A:ARG:HD2	1:72:A:ILE:H	7	0.51
(1,110)	1:71:A:ARG:HD3	1:72:A:ILE:H	7	0.51
(1,106)	1:75:A:GLU:H	1:78:A:ASP:H	6	0.51
(1,90)	1:87:A:PHE:HE1	1:98:A:ALA:H	3	0.51
(1,90)	1:87:A:PHE:HE2	1:98:A:ALA:H	3	0.51
(1,60)	1:47:A:GLN:HE22	1:52:A:GLN:H	4	0.51
(1,47)	1:70:A:ASN:H	1:71:A:ARG:HE	11	0.51
(1,40)	1:74:A:ASN:HA	1:98:A:ALA:HA	6	0.51
(1,17)	1:70:A:ASN:HD21	1:74:A:ASN:HB2	4	0.51
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD11	9	0.5
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD12	9	0.5
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD13	9	0.5
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD21	9	0.5
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD22	9	0.5
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD23	9	0.5
(1,1058)	1:89:A:ASP:H	1:149:A:GLY:HA2	1	0.5
(1,1058)	1:89:A:ASP:H	1:149:A:GLY:HA2	4	0.5
(1,1058)	1:89:A:ASP:H	1:149:A:GLY:HA2	16	0.5
(1,996)	1:138:A:GLY:H	1:140:A:THR:HG21	8	0.5
(1,996)	1:138:A:GLY:H	1:140:A:THR:HG22	8	0.5
(1,996)	1:138:A:GLY:H	1:140:A:THR:HG23	8	0.5
(1,959)	1:79:A:GLN:HB2	1:111:A:ALA:HA	20	0.5
(1,952)	1:89:A:ASP:HA	1:95:A:LEU:HG	15	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,841)	1:130:A:LEU:HD11	1:132:A:ARG:H	3	0.5
(1,841)	1:130:A:LEU:HD12	1:132:A:ARG:H	3	0.5
(1,841)	1:130:A:LEU:HD13	1:132:A:ARG:H	3	0.5
(1,841)	1:130:A:LEU:HD21	1:132:A:ARG:H	3	0.5
(1,841)	1:130:A:LEU:HD22	1:132:A:ARG:H	3	0.5
(1,841)	1:130:A:LEU:HD23	1:132:A:ARG:H	3	0.5
(1,593)	1:79:A:GLN:HG3	1:111:A:ALA:HA	19	0.5
(1,521)	1:98:A:ALA:HA	1:103:A:LEU:H	18	0.5
(1,495)	1:93:A:GLU:HG2	1:124:A:HIS:HA	1	0.5
(1,495)	1:93:A:GLU:HG3	1:124:A:HIS:HA	1	0.5
(1,495)	1:93:A:GLU:HG2	1:124:A:HIS:HA	12	0.5
(1,495)	1:93:A:GLU:HG3	1:124:A:HIS:HA	12	0.5
(1,478)	1:55:A:PRO:HB2	1:58:A:ALA:HA	16	0.5
(1,478)	1:55:A:PRO:HB3	1:58:A:ALA:HA	16	0.5
(1,447)	1:162:A:LEU:HD11	1:163:A:ARG:HH11	16	0.5
(1,447)	1:162:A:LEU:HD11	1:163:A:ARG:HH12	16	0.5
(1,447)	1:162:A:LEU:HD12	1:163:A:ARG:HH11	16	0.5
(1,447)	1:162:A:LEU:HD12	1:163:A:ARG:HH12	16	0.5
(1,447)	1:162:A:LEU:HD13	1:163:A:ARG:HH11	16	0.5
(1,447)	1:162:A:LEU:HD13	1:163:A:ARG:HH12	16	0.5
(1,447)	1:162:A:LEU:HD21	1:163:A:ARG:HH11	16	0.5
(1,447)	1:162:A:LEU:HD21	1:163:A:ARG:HH12	16	0.5
(1,447)	1:162:A:LEU:HD22	1:163:A:ARG:HH11	16	0.5
(1,447)	1:162:A:LEU:HD22	1:163:A:ARG:HH12	16	0.5
(1,447)	1:162:A:LEU:HD23	1:163:A:ARG:HH11	16	0.5
(1,447)	1:162:A:LEU:HD23	1:163:A:ARG:HH12	16	0.5
(1,379)	1:73:A:ALA:H	1:75:A:GLU:HG2	3	0.5
(1,379)	1:73:A:ALA:H	1:75:A:GLU:HG3	3	0.5
(1,311)	1:98:A:ALA:H	1:152:A:GLU:HB2	9	0.5
(1,311)	1:98:A:ALA:H	1:152:A:GLU:HB3	9	0.5
(1,290)	1:106:A:ALA:HA	1:108:A:ALA:H	10	0.5
(1,267)	1:43:A:ILE:HG21	1:52:A:GLN:HB2	15	0.5
(1,267)	1:43:A:ILE:HG21	1:52:A:GLN:HB3	15	0.5
(1,267)	1:43:A:ILE:HG22	1:52:A:GLN:HB2	15	0.5
(1,267)	1:43:A:ILE:HG22	1:52:A:GLN:HB3	15	0.5
(1,267)	1:43:A:ILE:HG23	1:52:A:GLN:HB2	15	0.5
(1,267)	1:43:A:ILE:HG23	1:52:A:GLN:HB3	15	0.5
(1,226)	1:65:A:ASP:H	1:66:A:THR:HA	18	0.5
(1,226)	1:65:A:ASP:H	1:66:A:THR:HA	20	0.5
(1,212)	1:47:A:GLN:H	1:51:A:GLU:H	19	0.5
(1,146)	1:69:A:LEU:H	1:87:A:PHE:HE1	7	0.5
(1,146)	1:69:A:LEU:H	1:87:A:PHE:HE2	7	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,110)	1:71:A:ARG:HD2	1:72:A:ILE:H	18	0.5
(1,110)	1:71:A:ARG:HD3	1:72:A:ILE:H	18	0.5
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB1	2	0.5
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB2	2	0.5
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB3	2	0.5
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB1	2	0.5
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB2	2	0.5
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB3	2	0.5
(1,90)	1:87:A:PHE:HE1	1:98:A:ALA:H	12	0.5
(1,90)	1:87:A:PHE:HE2	1:98:A:ALA:H	12	0.5
(1,83)	1:61:A:LEU:H	1:65:A:ASP:HB2	13	0.5
(1,45)	1:94:A:ARG:H	1:125:A:PHE:H	17	0.5
(1,44)	1:43:A:ILE:HG21	1:48:A:LEU:H	9	0.5
(1,44)	1:43:A:ILE:HG22	1:48:A:LEU:H	9	0.5
(1,44)	1:43:A:ILE:HG23	1:48:A:LEU:H	9	0.5
(1,44)	1:43:A:ILE:HG21	1:48:A:LEU:H	16	0.5
(1,44)	1:43:A:ILE:HG22	1:48:A:LEU:H	16	0.5
(1,44)	1:43:A:ILE:HG23	1:48:A:LEU:H	16	0.5
(1,39)	1:121:A:ASP:H	1:123:A:THR:H	13	0.5
(1,27)	1:91:A:ARG:H	1:149:A:GLY:H	13	0.5
(1,17)	1:70:A:ASN:HD21	1:74:A:ASN:HB2	9	0.5
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG11	5	0.49
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG12	5	0.49
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG13	5	0.49
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG21	5	0.49
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG22	5	0.49
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG23	5	0.49
(1,1041)	1:81:A:ASP:HA	1:164:A:GLY:HA2	14	0.49
(1,1041)	1:81:A:ASP:HA	1:164:A:GLY:HA3	14	0.49
(1,1003)	1:85:A:VAL:HG21	1:99:A:GLY:HA2	18	0.49
(1,1003)	1:85:A:VAL:HG21	1:99:A:GLY:HA3	18	0.49
(1,1003)	1:85:A:VAL:HG22	1:99:A:GLY:HA2	18	0.49
(1,1003)	1:85:A:VAL:HG22	1:99:A:GLY:HA3	18	0.49
(1,1003)	1:85:A:VAL:HG23	1:99:A:GLY:HA2	18	0.49
(1,1003)	1:85:A:VAL:HG23	1:99:A:GLY:HA3	18	0.49
(1,971)	1:60:A:ALA:HA	1:65:A:ASP:HB3	17	0.49
(1,805)	1:41:A:GLN:HE21	1:42:A:LEU:HG	6	0.49
(1,688)	1:93:A:GLU:HA	1:125:A:PHE:H	16	0.49
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG21	12	0.49
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG22	12	0.49
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG23	12	0.49
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG21	12	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG22	12	0.49
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG23	12	0.49
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD21	10	0.49
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD22	10	0.49
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD23	10	0.49
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD21	10	0.49
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD22	10	0.49
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD23	10	0.49
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD21	10	0.49
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD22	10	0.49
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD23	10	0.49
(1,592)	1:57:A:ALA:HA	1:158:A:HIS:HD2	14	0.49
(1,531)	1:111:A:ALA:HB1	1:114:A:LEU:HB2	5	0.49
(1,531)	1:111:A:ALA:HB1	1:114:A:LEU:HB3	5	0.49
(1,531)	1:111:A:ALA:HB2	1:114:A:LEU:HB2	5	0.49
(1,531)	1:111:A:ALA:HB2	1:114:A:LEU:HB3	5	0.49
(1,531)	1:111:A:ALA:HB3	1:114:A:LEU:HB2	5	0.49
(1,531)	1:111:A:ALA:HB3	1:114:A:LEU:HB3	5	0.49
(1,521)	1:98:A:ALA:HA	1:103:A:LEU:H	6	0.49
(1,455)	1:61:A:LEU:HD21	1:63:A:ARG:H	10	0.49
(1,455)	1:61:A:LEU:HD22	1:63:A:ARG:H	10	0.49
(1,455)	1:61:A:LEU:HD23	1:63:A:ARG:H	10	0.49
(1,455)	1:61:A:LEU:HD21	1:63:A:ARG:H	20	0.49
(1,455)	1:61:A:LEU:HD22	1:63:A:ARG:H	20	0.49
(1,455)	1:61:A:LEU:HD23	1:63:A:ARG:H	20	0.49
(1,305)	1:93:A:GLU:HA	1:94:A:ARG:HD2	17	0.49
(1,305)	1:93:A:GLU:HA	1:94:A:ARG:HD3	17	0.49
(1,301)	1:88:A:LEU:HA	1:95:A:LEU:HB2	3	0.49
(1,301)	1:88:A:LEU:HA	1:95:A:LEU:HB3	3	0.49
(1,301)	1:88:A:LEU:HA	1:95:A:LEU:HB2	5	0.49
(1,301)	1:88:A:LEU:HA	1:95:A:LEU:HB3	5	0.49
(1,266)	1:87:A:PHE:HD1	1:151:A:VAL:HB	19	0.49
(1,266)	1:87:A:PHE:HD2	1:151:A:VAL:HB	19	0.49
(1,234)	1:66:A:THR:HB	1:87:A:PHE:HB2	11	0.49
(1,226)	1:65:A:ASP:H	1:66:A:THR:HA	10	0.49
(1,226)	1:65:A:ASP:H	1:66:A:THR:HA	16	0.49
(1,166)	1:40:A:ALA:H	1:41:A:GLN:HG3	17	0.49
(1,154)	1:79:A:GLN:HE21	1:111:A:ALA:HA	20	0.49
(1,133)	1:65:A:ASP:HA	1:147:A:VAL:HG21	11	0.49
(1,133)	1:65:A:ASP:HA	1:147:A:VAL:HG22	11	0.49
(1,133)	1:65:A:ASP:HA	1:147:A:VAL:HG23	11	0.49
(1,112)	1:88:A:LEU:HB2	1:150:A:TRP:HB3	11	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,112)	1:88:A:LEU:HB3	1:150:A:TRP:HB3	11	0.49
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB1	16	0.49
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB2	16	0.49
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB3	16	0.49
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB1	16	0.49
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB2	16	0.49
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB3	16	0.49
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB1	20	0.49
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB2	20	0.49
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB3	20	0.49
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB1	20	0.49
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB2	20	0.49
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB3	20	0.49
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG21	16	0.49
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG22	16	0.49
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG23	16	0.49
(1,90)	1:87:A:PHE:HE1	1:98:A:ALA:H	9	0.49
(1,90)	1:87:A:PHE:HE2	1:98:A:ALA:H	9	0.49
(1,90)	1:87:A:PHE:HE1	1:98:A:ALA:H	17	0.49
(1,90)	1:87:A:PHE:HE2	1:98:A:ALA:H	17	0.49
(1,85)	1:76:A:ALA:HB1	1:79:A:GLN:HE21	15	0.49
(1,85)	1:76:A:ALA:HB2	1:79:A:GLN:HE21	15	0.49
(1,85)	1:76:A:ALA:HB3	1:79:A:GLN:HE21	15	0.49
(1,66)	1:152:A:GLU:HA	1:154:A:GLU:H	13	0.49
(1,47)	1:70:A:ASN:H	1:71:A:ARG:HE	7	0.49
(1,17)	1:70:A:ASN:HD21	1:74:A:ASN:HB2	5	0.49
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG21	20	0.48
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG22	20	0.48
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG23	20	0.48
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG21	20	0.48
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG22	20	0.48
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG23	20	0.48
(1,1018)	1:70:A:ASN:HD22	1:71:A:ARG:HA	15	0.48
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD11	7	0.48
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD12	7	0.48
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD13	7	0.48
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD21	7	0.48
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD22	7	0.48
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD23	7	0.48
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD11	7	0.48
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD12	7	0.48
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD13	7	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD21	7	0.48
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD22	7	0.48
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD23	7	0.48
(1,927)	1:94:A:ARG:HG2	1:131:A:GLY:H	17	0.48
(1,927)	1:94:A:ARG:HG3	1:131:A:GLY:H	17	0.48
(1,882)	1:130:A:LEU:HD11	1:131:A:GLY:H	9	0.48
(1,882)	1:130:A:LEU:HD12	1:131:A:GLY:H	9	0.48
(1,882)	1:130:A:LEU:HD13	1:131:A:GLY:H	9	0.48
(1,882)	1:130:A:LEU:HD21	1:131:A:GLY:H	9	0.48
(1,882)	1:130:A:LEU:HD22	1:131:A:GLY:H	9	0.48
(1,882)	1:130:A:LEU:HD23	1:131:A:GLY:H	9	0.48
(1,849)	1:89:A:ASP:H	1:95:A:LEU:HD21	20	0.48
(1,849)	1:89:A:ASP:H	1:95:A:LEU:HD22	20	0.48
(1,849)	1:89:A:ASP:H	1:95:A:LEU:HD23	20	0.48
(1,805)	1:41:A:GLN:HE21	1:42:A:LEU:HG	4	0.48
(1,688)	1:93:A:GLU:HA	1:125:A:PHE:H	13	0.48
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD11	18	0.48
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD12	18	0.48
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD13	18	0.48
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD11	18	0.48
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD12	18	0.48
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD13	18	0.48
(1,614)	1:49:A:ILE:HG21	1:55:A:PRO:HG2	6	0.48
(1,614)	1:49:A:ILE:HG21	1:55:A:PRO:HG3	6	0.48
(1,614)	1:49:A:ILE:HG22	1:55:A:PRO:HG2	6	0.48
(1,614)	1:49:A:ILE:HG22	1:55:A:PRO:HG3	6	0.48
(1,614)	1:49:A:ILE:HG23	1:55:A:PRO:HG2	6	0.48
(1,614)	1:49:A:ILE:HG23	1:55:A:PRO:HG3	6	0.48
(1,593)	1:79:A:GLN:HG3	1:111:A:ALA:HA	8	0.48
(1,461)	1:43:A:ILE:HD11	1:47:A:GLN:H	19	0.48
(1,461)	1:43:A:ILE:HD12	1:47:A:GLN:H	19	0.48
(1,461)	1:43:A:ILE:HD13	1:47:A:GLN:H	19	0.48
(1,455)	1:61:A:LEU:HD21	1:63:A:ARG:H	8	0.48
(1,455)	1:61:A:LEU:HD22	1:63:A:ARG:H	8	0.48
(1,455)	1:61:A:LEU:HD23	1:63:A:ARG:H	8	0.48
(1,408)	1:62:A:ALA:HA	1:64:A:LYS:HB2	4	0.48
(1,408)	1:62:A:ALA:HA	1:64:A:LYS:HB3	4	0.48
(1,404)	1:50:A:ALA:H	1:51:A:GLU:HB2	11	0.48
(1,404)	1:50:A:ALA:H	1:51:A:GLU:HB3	11	0.48
(1,357)	1:61:A:LEU:HD11	1:64:A:LYS:H	5	0.48
(1,357)	1:61:A:LEU:HD12	1:64:A:LYS:H	5	0.48
(1,357)	1:61:A:LEU:HD13	1:64:A:LYS:H	5	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,311)	1:98:A:ALA:H	1:152:A:GLU:HB2	2	0.48
(1,311)	1:98:A:ALA:H	1:152:A:GLU:HB3	2	0.48
(1,306)	1:82:A:VAL:H	1:163:A:ARG:HH11	11	0.48
(1,306)	1:82:A:VAL:H	1:163:A:ARG:HH12	11	0.48
(1,305)	1:93:A:GLU:HA	1:94:A:ARG:HD2	15	0.48
(1,305)	1:93:A:GLU:HA	1:94:A:ARG:HD3	15	0.48
(1,296)	1:80:A:PRO:HG2	1:163:A:ARG:HH11	4	0.48
(1,296)	1:80:A:PRO:HG2	1:163:A:ARG:HH12	4	0.48
(1,296)	1:80:A:PRO:HG3	1:163:A:ARG:HH11	4	0.48
(1,296)	1:80:A:PRO:HG3	1:163:A:ARG:HH12	4	0.48
(1,267)	1:43:A:ILE:HG21	1:52:A:GLN:HB2	7	0.48
(1,267)	1:43:A:ILE:HG21	1:52:A:GLN:HB3	7	0.48
(1,267)	1:43:A:ILE:HG22	1:52:A:GLN:HB2	7	0.48
(1,267)	1:43:A:ILE:HG22	1:52:A:GLN:HB3	7	0.48
(1,267)	1:43:A:ILE:HG23	1:52:A:GLN:HB2	7	0.48
(1,267)	1:43:A:ILE:HG23	1:52:A:GLN:HB3	7	0.48
(1,266)	1:87:A:PHE:HD1	1:151:A:VAL:HB	8	0.48
(1,266)	1:87:A:PHE:HD2	1:151:A:VAL:HB	8	0.48
(1,251)	1:88:A:LEU:HG	1:150:A:TRP:H	11	0.48
(1,212)	1:47:A:GLN:H	1:51:A:GLU:H	15	0.48
(1,166)	1:40:A:ALA:H	1:41:A:GLN:HG3	7	0.48
(1,141)	1:97:A:HIS:HB3	1:103:A:LEU:H	3	0.48
(1,129)	1:70:A:ASN:HB2	1:71:A:ARG:HE	7	0.48
(1,129)	1:70:A:ASN:HB2	1:71:A:ARG:HE	9	0.48
(1,125)	1:94:A:ARG:HH21	1:104:A:THR:HB	8	0.48
(1,125)	1:94:A:ARG:HH22	1:104:A:THR:HB	8	0.48
(1,121)	1:41:A:GLN:HE21	1:42:A:LEU:HB2	6	0.48
(1,121)	1:41:A:GLN:HE21	1:42:A:LEU:HB2	8	0.48
(1,111)	1:88:A:LEU:HA	1:150:A:TRP:HZ2	17	0.48
(1,110)	1:71:A:ARG:HD2	1:72:A:ILE:H	8	0.48
(1,110)	1:71:A:ARG:HD3	1:72:A:ILE:H	8	0.48
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG21	4	0.48
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG22	4	0.48
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG23	4	0.48
(1,90)	1:87:A:PHE:HE1	1:98:A:ALA:H	1	0.48
(1,90)	1:87:A:PHE:HE2	1:98:A:ALA:H	1	0.48
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG21	20	0.48
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG22	20	0.48
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG23	20	0.48
(1,47)	1:70:A:ASN:H	1:71:A:ARG:HE	20	0.48
(1,45)	1:94:A:ARG:H	1:125:A:PHE:H	3	0.48
(1,40)	1:74:A:ASN:HA	1:98:A:ALA:HA	1	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG11	8	0.47
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG12	8	0.47
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG13	8	0.47
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG21	8	0.47
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG22	8	0.47
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG23	8	0.47
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG11	13	0.47
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG12	13	0.47
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG13	13	0.47
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG21	13	0.47
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG22	13	0.47
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG23	13	0.47
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD11	3	0.47
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD12	3	0.47
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD13	3	0.47
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD21	3	0.47
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD22	3	0.47
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD23	3	0.47
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD11	3	0.47
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD12	3	0.47
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD13	3	0.47
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD21	3	0.47
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD22	3	0.47
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD23	3	0.47
(1,864)	1:90:A:ALA:HB1	1:149:A:GLY:H	11	0.47
(1,864)	1:90:A:ALA:HB2	1:149:A:GLY:H	11	0.47
(1,864)	1:90:A:ALA:HB3	1:149:A:GLY:H	11	0.47
(1,805)	1:41:A:GLN:HE21	1:42:A:LEU:HG	14	0.47
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB1	5	0.47
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB2	5	0.47
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB3	5	0.47
(1,666)	1:47:A:GLN:HB2	1:52:A:GLN:HG2	19	0.47
(1,666)	1:47:A:GLN:HB2	1:52:A:GLN:HG3	19	0.47
(1,666)	1:47:A:GLN:HB3	1:52:A:GLN:HG2	19	0.47
(1,666)	1:47:A:GLN:HB3	1:52:A:GLN:HG3	19	0.47
(1,568)	1:111:A:ALA:HA	1:114:A:LEU:H	16	0.47
(1,539)	1:70:A:ASN:HD22	1:74:A:ASN:HB2	14	0.47
(1,425)	1:42:A:LEU:HA	1:56:A:LEU:HG	1	0.47
(1,377)	1:66:A:THR:HG21	1:70:A:ASN:HB3	19	0.47
(1,377)	1:66:A:THR:HG22	1:70:A:ASN:HB3	19	0.47
(1,377)	1:66:A:THR:HG23	1:70:A:ASN:HB3	19	0.47
(1,266)	1:87:A:PHE:HD1	1:151:A:VAL:HB	16	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,266)	1:87:A:PHE:HD2	1:151:A:VAL:HB	16	0.47
(1,247)	1:74:A:ASN:H	1:75:A:GLU:HG2	9	0.47
(1,247)	1:74:A:ASN:H	1:75:A:GLU:HG3	9	0.47
(1,226)	1:65:A:ASP:H	1:66:A:THR:HA	1	0.47
(1,194)	1:64:A:LYS:HE2	1:69:A:LEU:HD21	20	0.47
(1,194)	1:64:A:LYS:HE2	1:69:A:LEU:HD22	20	0.47
(1,194)	1:64:A:LYS:HE2	1:69:A:LEU:HD23	20	0.47
(1,194)	1:64:A:LYS:HE3	1:69:A:LEU:HD21	20	0.47
(1,194)	1:64:A:LYS:HE3	1:69:A:LEU:HD22	20	0.47
(1,194)	1:64:A:LYS:HE3	1:69:A:LEU:HD23	20	0.47
(1,166)	1:40:A:ALA:H	1:41:A:GLN:HG3	10	0.47
(1,146)	1:69:A:LEU:H	1:87:A:PHE:HE1	20	0.47
(1,146)	1:69:A:LEU:H	1:87:A:PHE:HE2	20	0.47
(1,141)	1:97:A:HIS:HB3	1:103:A:LEU:H	1	0.47
(1,141)	1:97:A:HIS:HB3	1:103:A:LEU:H	2	0.47
(1,141)	1:97:A:HIS:HB3	1:103:A:LEU:H	13	0.47
(1,125)	1:94:A:ARG:HH21	1:104:A:THR:HB	6	0.47
(1,125)	1:94:A:ARG:HH22	1:104:A:THR:HB	6	0.47
(1,90)	1:87:A:PHE:HE1	1:98:A:ALA:H	2	0.47
(1,90)	1:87:A:PHE:HE2	1:98:A:ALA:H	2	0.47
(1,85)	1:76:A:ALA:HB1	1:79:A:GLN:HE21	10	0.47
(1,85)	1:76:A:ALA:HB2	1:79:A:GLN:HE21	10	0.47
(1,85)	1:76:A:ALA:HB3	1:79:A:GLN:HE21	10	0.47
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG21	10	0.47
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG22	10	0.47
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG23	10	0.47
(1,83)	1:61:A:LEU:H	1:65:A:ASP:HB2	8	0.47
(1,83)	1:61:A:LEU:H	1:65:A:ASP:HB2	9	0.47
(1,83)	1:61:A:LEU:H	1:65:A:ASP:HB2	12	0.47
(1,83)	1:61:A:LEU:H	1:65:A:ASP:HB2	20	0.47
(1,52)	1:139:A:ALA:H	1:150:A:TRP:HB3	8	0.47
(1,48)	1:65:A:ASP:HB3	1:68:A:VAL:HA	16	0.47
(1,27)	1:91:A:ARG:H	1:149:A:GLY:H	2	0.47
(1,27)	1:91:A:ARG:H	1:149:A:GLY:H	14	0.47
(1,7)	1:97:A:HIS:HA	1:150:A:TRP:HZ3	11	0.47
(1,7)	1:97:A:HIS:HA	1:150:A:TRP:HZ3	15	0.47
(1,998)	1:61:A:LEU:HA	1:65:A:ASP:H	1	0.46
(1,998)	1:61:A:LEU:HA	1:65:A:ASP:H	10	0.46
(1,927)	1:94:A:ARG:HG2	1:131:A:GLY:H	5	0.46
(1,927)	1:94:A:ARG:HG3	1:131:A:GLY:H	5	0.46
(1,849)	1:89:A:ASP:H	1:95:A:LEU:HD21	9	0.46
(1,849)	1:89:A:ASP:H	1:95:A:LEU:HD22	9	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,849)	1:89:A:ASP:H	1:95:A:LEU:HD23	9	0.46
(1,841)	1:130:A:LEU:HD11	1:132:A:ARG:H	16	0.46
(1,841)	1:130:A:LEU:HD12	1:132:A:ARG:H	16	0.46
(1,841)	1:130:A:LEU:HD13	1:132:A:ARG:H	16	0.46
(1,841)	1:130:A:LEU:HD21	1:132:A:ARG:H	16	0.46
(1,841)	1:130:A:LEU:HD22	1:132:A:ARG:H	16	0.46
(1,841)	1:130:A:LEU:HD23	1:132:A:ARG:H	16	0.46
(1,822)	1:75:A:GLU:H	1:77:A:LEU:HB2	11	0.46
(1,822)	1:75:A:GLU:H	1:77:A:LEU:HB3	11	0.46
(1,805)	1:41:A:GLN:HE21	1:42:A:LEU:HG	17	0.46
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB1	14	0.46
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB2	14	0.46
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB3	14	0.46
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD11	11	0.46
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD12	11	0.46
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD13	11	0.46
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD21	11	0.46
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD22	11	0.46
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD23	11	0.46
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG21	10	0.46
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG22	10	0.46
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG23	10	0.46
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG21	17	0.46
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG22	17	0.46
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG23	17	0.46
(1,614)	1:49:A:ILE:HG21	1:55:A:PRO:HG2	18	0.46
(1,614)	1:49:A:ILE:HG21	1:55:A:PRO:HG3	18	0.46
(1,614)	1:49:A:ILE:HG22	1:55:A:PRO:HG2	18	0.46
(1,614)	1:49:A:ILE:HG22	1:55:A:PRO:HG3	18	0.46
(1,614)	1:49:A:ILE:HG23	1:55:A:PRO:HG2	18	0.46
(1,614)	1:49:A:ILE:HG23	1:55:A:PRO:HG3	18	0.46
(1,455)	1:61:A:LEU:HD21	1:63:A:ARG:H	14	0.46
(1,455)	1:61:A:LEU:HD22	1:63:A:ARG:H	14	0.46
(1,455)	1:61:A:LEU:HD23	1:63:A:ARG:H	14	0.46
(1,442)	1:141:A:GLU:HB2	1:145:A:GLU:H	17	0.46
(1,442)	1:141:A:GLU:HB3	1:145:A:GLU:H	17	0.46
(1,425)	1:42:A:LEU:HA	1:56:A:LEU:HG	3	0.46
(1,405)	1:103:A:LEU:HG	1:105:A:VAL:H	20	0.46
(1,379)	1:73:A:ALA:H	1:75:A:GLU:HG2	7	0.46
(1,379)	1:73:A:ALA:H	1:75:A:GLU:HG3	7	0.46
(1,379)	1:73:A:ALA:H	1:75:A:GLU:HG2	11	0.46
(1,379)	1:73:A:ALA:H	1:75:A:GLU:HG3	11	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,379)	1:73:A:ALA:H	1:75:A:GLU:HG2	15	0.46
(1,379)	1:73:A:ALA:H	1:75:A:GLU:HG3	15	0.46
(1,311)	1:98:A:ALA:H	1:152:A:GLU:HB2	10	0.46
(1,311)	1:98:A:ALA:H	1:152:A:GLU:HB3	10	0.46
(1,276)	1:43:A:ILE:HG21	1:47:A:GLN:HA	15	0.46
(1,276)	1:43:A:ILE:HG22	1:47:A:GLN:HA	15	0.46
(1,276)	1:43:A:ILE:HG23	1:47:A:GLN:HA	15	0.46
(1,251)	1:88:A:LEU:HG	1:150:A:TRP:H	2	0.46
(1,226)	1:65:A:ASP:H	1:66:A:THR:HA	9	0.46
(1,208)	1:97:A:HIS:HB2	1:131:A:GLY:H	6	0.46
(1,154)	1:79:A:GLN:HE21	1:111:A:ALA:HA	7	0.46
(1,121)	1:41:A:GLN:HE21	1:42:A:LEU:HB2	2	0.46
(1,121)	1:41:A:GLN:HE21	1:42:A:LEU:HB2	12	0.46
(1,121)	1:41:A:GLN:HE21	1:42:A:LEU:HB2	17	0.46
(1,104)	1:70:A:ASN:HD22	1:71:A:ARG:HD2	16	0.46
(1,104)	1:70:A:ASN:HD22	1:71:A:ARG:HD3	16	0.46
(1,104)	1:70:A:ASN:HD22	1:71:A:ARG:HD2	18	0.46
(1,104)	1:70:A:ASN:HD22	1:71:A:ARG:HD3	18	0.46
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG21	14	0.46
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG22	14	0.46
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG23	14	0.46
(1,90)	1:87:A:PHE:HE1	1:98:A:ALA:H	18	0.46
(1,90)	1:87:A:PHE:HE2	1:98:A:ALA:H	18	0.46
(1,85)	1:76:A:ALA:HB1	1:79:A:GLN:HE21	16	0.46
(1,85)	1:76:A:ALA:HB2	1:79:A:GLN:HE21	16	0.46
(1,85)	1:76:A:ALA:HB3	1:79:A:GLN:HE21	16	0.46
(1,44)	1:43:A:ILE:HG21	1:48:A:LEU:H	11	0.46
(1,44)	1:43:A:ILE:HG22	1:48:A:LEU:H	11	0.46
(1,44)	1:43:A:ILE:HG23	1:48:A:LEU:H	11	0.46
(1,1190)	1:146:A:ARG:HB2	1:151:A:VAL:HG11	20	0.45
(1,1190)	1:146:A:ARG:HB2	1:151:A:VAL:HG12	20	0.45
(1,1190)	1:146:A:ARG:HB2	1:151:A:VAL:HG13	20	0.45
(1,1190)	1:146:A:ARG:HB2	1:151:A:VAL:HG21	20	0.45
(1,1190)	1:146:A:ARG:HB2	1:151:A:VAL:HG22	20	0.45
(1,1190)	1:146:A:ARG:HB2	1:151:A:VAL:HG23	20	0.45
(1,1190)	1:146:A:ARG:HB3	1:151:A:VAL:HG11	20	0.45
(1,1190)	1:146:A:ARG:HB3	1:151:A:VAL:HG12	20	0.45
(1,1190)	1:146:A:ARG:HB3	1:151:A:VAL:HG13	20	0.45
(1,1190)	1:146:A:ARG:HB3	1:151:A:VAL:HG21	20	0.45
(1,1190)	1:146:A:ARG:HB3	1:151:A:VAL:HG22	20	0.45
(1,1190)	1:146:A:ARG:HB3	1:151:A:VAL:HG23	20	0.45
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG21	7	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG22	7	0.45
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG23	7	0.45
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG21	7	0.45
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG22	7	0.45
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG23	7	0.45
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD11	1	0.45
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD12	1	0.45
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD13	1	0.45
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD21	1	0.45
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD22	1	0.45
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD23	1	0.45
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG11	11	0.45
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG12	11	0.45
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG13	11	0.45
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG21	11	0.45
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG22	11	0.45
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG23	11	0.45
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG11	7	0.45
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG12	7	0.45
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG13	7	0.45
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG21	7	0.45
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG22	7	0.45
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG23	7	0.45
(1,1058)	1:89:A:ASP:H	1:149:A:GLY:HA2	13	0.45
(1,1018)	1:70:A:ASN:HD22	1:71:A:ARG:HA	12	0.45
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG21	15	0.45
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG22	15	0.45
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG23	15	0.45
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG21	15	0.45
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG22	15	0.45
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG23	15	0.45
(1,849)	1:89:A:ASP:H	1:95:A:LEU:HD21	18	0.45
(1,849)	1:89:A:ASP:H	1:95:A:LEU:HD22	18	0.45
(1,849)	1:89:A:ASP:H	1:95:A:LEU:HD23	18	0.45
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB1	10	0.45
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB2	10	0.45
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB3	10	0.45
(1,811)	1:74:A:ASN:H	1:77:A:LEU:HB2	10	0.45
(1,811)	1:74:A:ASN:H	1:77:A:LEU:HB3	10	0.45
(1,614)	1:49:A:ILE:HG21	1:55:A:PRO:HG2	3	0.45
(1,614)	1:49:A:ILE:HG21	1:55:A:PRO:HG3	3	0.45
(1,614)	1:49:A:ILE:HG22	1:55:A:PRO:HG2	3	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,614)	1:49:A:ILE:HG22	1:55:A:PRO:HG3	3	0.45
(1,614)	1:49:A:ILE:HG23	1:55:A:PRO:HG2	3	0.45
(1,614)	1:49:A:ILE:HG23	1:55:A:PRO:HG3	3	0.45
(1,495)	1:93:A:GLU:HG2	1:124:A:HIS:HA	8	0.45
(1,495)	1:93:A:GLU:HG3	1:124:A:HIS:HA	8	0.45
(1,425)	1:42:A:LEU:HA	1:56:A:LEU:HG	5	0.45
(1,425)	1:42:A:LEU:HA	1:56:A:LEU:HG	12	0.45
(1,354)	1:76:A:ALA:HB1	1:79:A:GLN:HE22	19	0.45
(1,354)	1:76:A:ALA:HB2	1:79:A:GLN:HE22	19	0.45
(1,354)	1:76:A:ALA:HB3	1:79:A:GLN:HE22	19	0.45
(1,332)	1:47:A:GLN:H	1:53:A:LEU:H	17	0.45
(1,301)	1:88:A:LEU:HA	1:95:A:LEU:HB2	4	0.45
(1,301)	1:88:A:LEU:HA	1:95:A:LEU:HB3	4	0.45
(1,272)	1:94:A:ARG:H	1:124:A:HIS:HA	17	0.45
(1,255)	1:94:A:ARG:HB2	1:94:A:ARG:HH21	2	0.45
(1,255)	1:94:A:ARG:HB2	1:94:A:ARG:HH22	2	0.45
(1,255)	1:94:A:ARG:HB3	1:94:A:ARG:HH21	2	0.45
(1,255)	1:94:A:ARG:HB3	1:94:A:ARG:HH22	2	0.45
(1,251)	1:88:A:LEU:HG	1:150:A:TRP:H	15	0.45
(1,247)	1:74:A:ASN:H	1:75:A:GLU:HG2	2	0.45
(1,247)	1:74:A:ASN:H	1:75:A:GLU:HG3	2	0.45
(1,247)	1:74:A:ASN:H	1:75:A:GLU:HG2	17	0.45
(1,247)	1:74:A:ASN:H	1:75:A:GLU:HG3	17	0.45
(1,226)	1:65:A:ASP:H	1:66:A:THR:HA	4	0.45
(1,210)	1:70:A:ASN:HD21	1:71:A:ARG:HA	14	0.45
(1,141)	1:97:A:HIS:HB3	1:103:A:LEU:H	15	0.45
(1,141)	1:97:A:HIS:HB3	1:103:A:LEU:H	20	0.45
(1,129)	1:70:A:ASN:HB2	1:71:A:ARG:HE	4	0.45
(1,129)	1:70:A:ASN:HB2	1:71:A:ARG:HE	5	0.45
(1,121)	1:41:A:GLN:HE21	1:42:A:LEU:HB2	4	0.45
(1,112)	1:88:A:LEU:HB2	1:150:A:TRP:HB3	16	0.45
(1,112)	1:88:A:LEU:HB3	1:150:A:TRP:HB3	16	0.45
(1,107)	1:56:A:LEU:HD11	1:58:A:ALA:H	6	0.45
(1,107)	1:56:A:LEU:HD12	1:58:A:ALA:H	6	0.45
(1,107)	1:56:A:LEU:HD13	1:58:A:ALA:H	6	0.45
(1,107)	1:56:A:LEU:HD21	1:58:A:ALA:H	6	0.45
(1,107)	1:56:A:LEU:HD22	1:58:A:ALA:H	6	0.45
(1,107)	1:56:A:LEU:HD23	1:58:A:ALA:H	6	0.45
(1,83)	1:61:A:LEU:H	1:65:A:ASP:HB2	7	0.45
(1,68)	1:162:A:LEU:HA	1:163:A:ARG:HH11	8	0.45
(1,68)	1:162:A:LEU:HA	1:163:A:ARG:HH12	8	0.45
(1,66)	1:152:A:GLU:HA	1:154:A:GLU:H	19	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,40)	1:74:A:ASN:HA	1:98:A:ALA:HA	9	0.45
(1,40)	1:74:A:ASN:HA	1:98:A:ALA:HA	17	0.45
(1,24)	1:69:A:LEU:HB2	1:70:A:ASN:HB3	15	0.45
(1,24)	1:69:A:LEU:HB3	1:70:A:ASN:HB3	15	0.45
(1,7)	1:97:A:HIS:HA	1:150:A:TRP:HZ3	13	0.45
(1,7)	1:97:A:HIS:HA	1:150:A:TRP:HZ3	18	0.45
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD11	11	0.44
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD12	11	0.44
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD13	11	0.44
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD21	11	0.44
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD22	11	0.44
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD23	11	0.44
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG11	15	0.44
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG12	15	0.44
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG13	15	0.44
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG21	15	0.44
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG22	15	0.44
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG23	15	0.44
(1,1129)	1:81:A:ASP:HB2	1:162:A:LEU:HB2	6	0.44
(1,1129)	1:81:A:ASP:HB2	1:162:A:LEU:HB3	6	0.44
(1,1129)	1:81:A:ASP:HB3	1:162:A:LEU:HB2	6	0.44
(1,1129)	1:81:A:ASP:HB3	1:162:A:LEU:HB3	6	0.44
(1,996)	1:138:A:GLY:H	1:140:A:THR:HG21	10	0.44
(1,996)	1:138:A:GLY:H	1:140:A:THR:HG22	10	0.44
(1,996)	1:138:A:GLY:H	1:140:A:THR:HG23	10	0.44
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG21	6	0.44
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG22	6	0.44
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG23	6	0.44
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG21	9	0.44
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG22	9	0.44
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG23	9	0.44
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG21	9	0.44
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG22	9	0.44
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG23	9	0.44
(1,882)	1:130:A:LEU:HD11	1:131:A:GLY:H	14	0.44
(1,882)	1:130:A:LEU:HD12	1:131:A:GLY:H	14	0.44
(1,882)	1:130:A:LEU:HD13	1:131:A:GLY:H	14	0.44
(1,882)	1:130:A:LEU:HD21	1:131:A:GLY:H	14	0.44
(1,882)	1:130:A:LEU:HD22	1:131:A:GLY:H	14	0.44
(1,882)	1:130:A:LEU:HD23	1:131:A:GLY:H	14	0.44
(1,864)	1:90:A:ALA:HB1	1:149:A:GLY:H	17	0.44
(1,864)	1:90:A:ALA:HB2	1:149:A:GLY:H	17	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,864)	1:90:A:ALA:HB3	1:149:A:GLY:H	17	0.44
(1,822)	1:75:A:GLU:H	1:77:A:LEU:HB2	13	0.44
(1,822)	1:75:A:GLU:H	1:77:A:LEU:HB3	13	0.44
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB1	2	0.44
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB2	2	0.44
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB3	2	0.44
(1,805)	1:41:A:GLN:HE21	1:42:A:LEU:HG	10	0.44
(1,742)	1:88:A:LEU:HB2	1:93:A:GLU:HG2	12	0.44
(1,742)	1:88:A:LEU:HB2	1:93:A:GLU:HG3	12	0.44
(1,742)	1:88:A:LEU:HB3	1:93:A:GLU:HG2	12	0.44
(1,742)	1:88:A:LEU:HB3	1:93:A:GLU:HG3	12	0.44
(1,666)	1:47:A:GLN:HB2	1:52:A:GLN:HG2	6	0.44
(1,666)	1:47:A:GLN:HB2	1:52:A:GLN:HG3	6	0.44
(1,666)	1:47:A:GLN:HB3	1:52:A:GLN:HG2	6	0.44
(1,666)	1:47:A:GLN:HB3	1:52:A:GLN:HG3	6	0.44
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG21	2	0.44
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG22	2	0.44
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG23	2	0.44
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG21	2	0.44
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG22	2	0.44
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG23	2	0.44
(1,539)	1:70:A:ASN:HD22	1:74:A:ASN:HB2	8	0.44
(1,521)	1:98:A:ALA:HA	1:103:A:LEU:H	8	0.44
(1,477)	1:135:A:SER:HB3	1:136:A:LEU:H	18	0.44
(1,436)	1:90:A:ALA:HB1	1:148:A:LEU:H	11	0.44
(1,436)	1:90:A:ALA:HB2	1:148:A:LEU:H	11	0.44
(1,436)	1:90:A:ALA:HB3	1:148:A:LEU:H	11	0.44
(1,432)	1:131:A:GLY:H	1:132:A:ARG:HG2	11	0.44
(1,432)	1:131:A:GLY:H	1:132:A:ARG:HG3	11	0.44
(1,425)	1:42:A:LEU:HA	1:56:A:LEU:HG	4	0.44
(1,379)	1:73:A:ALA:H	1:75:A:GLU:HG2	1	0.44
(1,379)	1:73:A:ALA:H	1:75:A:GLU:HG3	1	0.44
(1,379)	1:73:A:ALA:H	1:75:A:GLU:HG2	10	0.44
(1,379)	1:73:A:ALA:H	1:75:A:GLU:HG3	10	0.44
(1,379)	1:73:A:ALA:H	1:75:A:GLU:HG2	19	0.44
(1,379)	1:73:A:ALA:H	1:75:A:GLU:HG3	19	0.44
(1,377)	1:66:A:THR:HG21	1:70:A:ASN:HB3	18	0.44
(1,377)	1:66:A:THR:HG22	1:70:A:ASN:HB3	18	0.44
(1,377)	1:66:A:THR:HG23	1:70:A:ASN:HB3	18	0.44
(1,375)	1:160:A:THR:H	1:162:A:LEU:HD11	16	0.44
(1,375)	1:160:A:THR:H	1:162:A:LEU:HD12	16	0.44
(1,375)	1:160:A:THR:H	1:162:A:LEU:HD13	16	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,375)	1:160:A:THR:H	1:162:A:LEU:HD21	16	0.44
(1,375)	1:160:A:THR:H	1:162:A:LEU:HD22	16	0.44
(1,375)	1:160:A:THR:H	1:162:A:LEU:HD23	16	0.44
(1,359)	1:64:A:LYS:HB2	1:141:A:GLU:H	12	0.44
(1,359)	1:64:A:LYS:HB3	1:141:A:GLU:H	12	0.44
(1,357)	1:61:A:LEU:HD11	1:64:A:LYS:H	7	0.44
(1,357)	1:61:A:LEU:HD12	1:64:A:LYS:H	7	0.44
(1,357)	1:61:A:LEU:HD13	1:64:A:LYS:H	7	0.44
(1,357)	1:61:A:LEU:HD11	1:64:A:LYS:H	17	0.44
(1,357)	1:61:A:LEU:HD12	1:64:A:LYS:H	17	0.44
(1,357)	1:61:A:LEU:HD13	1:64:A:LYS:H	17	0.44
(1,311)	1:98:A:ALA:H	1:152:A:GLU:HB2	18	0.44
(1,311)	1:98:A:ALA:H	1:152:A:GLU:HB3	18	0.44
(1,276)	1:43:A:ILE:HG21	1:47:A:GLN:HA	13	0.44
(1,276)	1:43:A:ILE:HG22	1:47:A:GLN:HA	13	0.44
(1,276)	1:43:A:ILE:HG23	1:47:A:GLN:HA	13	0.44
(1,247)	1:74:A:ASN:H	1:75:A:GLU:HG2	1	0.44
(1,247)	1:74:A:ASN:H	1:75:A:GLU:HG3	1	0.44
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB1	1	0.44
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB2	1	0.44
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB3	1	0.44
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB1	18	0.44
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB2	18	0.44
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB3	18	0.44
(1,194)	1:64:A:LYS:HE2	1:69:A:LEU:HD21	5	0.44
(1,194)	1:64:A:LYS:HE2	1:69:A:LEU:HD22	5	0.44
(1,194)	1:64:A:LYS:HE2	1:69:A:LEU:HD23	5	0.44
(1,194)	1:64:A:LYS:HE3	1:69:A:LEU:HD21	5	0.44
(1,194)	1:64:A:LYS:HE3	1:69:A:LEU:HD22	5	0.44
(1,194)	1:64:A:LYS:HE3	1:69:A:LEU:HD23	5	0.44
(1,139)	1:83:A:ARG:HG2	1:154:A:GLU:HA	12	0.44
(1,139)	1:83:A:ARG:HG3	1:154:A:GLU:HA	12	0.44
(1,111)	1:88:A:LEU:HA	1:150:A:TRP:HZ2	2	0.44
(1,110)	1:71:A:ARG:HD2	1:72:A:ILE:H	5	0.44
(1,110)	1:71:A:ARG:HD3	1:72:A:ILE:H	5	0.44
(1,110)	1:71:A:ARG:HD2	1:72:A:ILE:H	16	0.44
(1,110)	1:71:A:ARG:HD3	1:72:A:ILE:H	16	0.44
(1,104)	1:70:A:ASN:HD22	1:71:A:ARG:HD2	7	0.44
(1,104)	1:70:A:ASN:HD22	1:71:A:ARG:HD3	7	0.44
(1,90)	1:87:A:PHE:HE1	1:98:A:ALA:H	13	0.44
(1,90)	1:87:A:PHE:HE2	1:98:A:ALA:H	13	0.44
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG21	12	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG22	12	0.44
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG23	12	0.44
(1,44)	1:43:A:ILE:HG21	1:48:A:LEU:H	5	0.44
(1,44)	1:43:A:ILE:HG22	1:48:A:LEU:H	5	0.44
(1,44)	1:43:A:ILE:HG23	1:48:A:LEU:H	5	0.44
(1,40)	1:74:A:ASN:HA	1:98:A:ALA:HA	16	0.44
(1,7)	1:97:A:HIS:HA	1:150:A:TRP:HZ3	19	0.44
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG11	3	0.43
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG12	3	0.43
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG13	3	0.43
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG21	3	0.43
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG22	3	0.43
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG23	3	0.43
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD11	1	0.43
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD12	1	0.43
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD13	1	0.43
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD21	1	0.43
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD22	1	0.43
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD23	1	0.43
(1,996)	1:138:A:GLY:H	1:140:A:THR:HG21	15	0.43
(1,996)	1:138:A:GLY:H	1:140:A:THR:HG22	15	0.43
(1,996)	1:138:A:GLY:H	1:140:A:THR:HG23	15	0.43
(1,971)	1:60:A:ALA:HA	1:65:A:ASP:HB3	8	0.43
(1,959)	1:79:A:GLN:HB2	1:111:A:ALA:HA	1	0.43
(1,959)	1:79:A:GLN:HB2	1:111:A:ALA:HA	10	0.43
(1,930)	1:94:A:ARG:HG2	1:96:A:ALA:HB1	18	0.43
(1,930)	1:94:A:ARG:HG2	1:96:A:ALA:HB2	18	0.43
(1,930)	1:94:A:ARG:HG2	1:96:A:ALA:HB3	18	0.43
(1,930)	1:94:A:ARG:HG3	1:96:A:ALA:HB1	18	0.43
(1,930)	1:94:A:ARG:HG3	1:96:A:ALA:HB2	18	0.43
(1,930)	1:94:A:ARG:HG3	1:96:A:ALA:HB3	18	0.43
(1,849)	1:89:A:ASP:H	1:95:A:LEU:HD21	16	0.43
(1,849)	1:89:A:ASP:H	1:95:A:LEU:HD22	16	0.43
(1,849)	1:89:A:ASP:H	1:95:A:LEU:HD23	16	0.43
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB1	4	0.43
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB2	4	0.43
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB3	4	0.43
(1,790)	1:74:A:ASN:HD21	1:98:A:ALA:HB1	19	0.43
(1,790)	1:74:A:ASN:HD21	1:98:A:ALA:HB2	19	0.43
(1,790)	1:74:A:ASN:HD21	1:98:A:ALA:HB3	19	0.43
(1,752)	1:140:A:THR:HG21	1:141:A:GLU:H	8	0.43
(1,752)	1:140:A:THR:HG22	1:141:A:GLU:H	8	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,752)	1:140:A:THR:HG23	1:141:A:GLU:H	8	0.43
(1,614)	1:49:A:ILE:HG21	1:55:A:PRO:HG2	8	0.43
(1,614)	1:49:A:ILE:HG21	1:55:A:PRO:HG3	8	0.43
(1,614)	1:49:A:ILE:HG22	1:55:A:PRO:HG2	8	0.43
(1,614)	1:49:A:ILE:HG22	1:55:A:PRO:HG3	8	0.43
(1,614)	1:49:A:ILE:HG23	1:55:A:PRO:HG2	8	0.43
(1,614)	1:49:A:ILE:HG23	1:55:A:PRO:HG3	8	0.43
(1,521)	1:98:A:ALA:HA	1:103:A:LEU:H	10	0.43
(1,521)	1:98:A:ALA:HA	1:103:A:LEU:H	20	0.43
(1,455)	1:61:A:LEU:HD21	1:63:A:ARG:H	1	0.43
(1,455)	1:61:A:LEU:HD22	1:63:A:ARG:H	1	0.43
(1,455)	1:61:A:LEU:HD23	1:63:A:ARG:H	1	0.43
(1,455)	1:61:A:LEU:HD21	1:63:A:ARG:H	12	0.43
(1,455)	1:61:A:LEU:HD22	1:63:A:ARG:H	12	0.43
(1,455)	1:61:A:LEU:HD23	1:63:A:ARG:H	12	0.43
(1,447)	1:162:A:LEU:HD11	1:163:A:ARG:HH11	2	0.43
(1,447)	1:162:A:LEU:HD11	1:163:A:ARG:HH12	2	0.43
(1,447)	1:162:A:LEU:HD12	1:163:A:ARG:HH11	2	0.43
(1,447)	1:162:A:LEU:HD12	1:163:A:ARG:HH12	2	0.43
(1,447)	1:162:A:LEU:HD13	1:163:A:ARG:HH11	2	0.43
(1,447)	1:162:A:LEU:HD13	1:163:A:ARG:HH12	2	0.43
(1,447)	1:162:A:LEU:HD21	1:163:A:ARG:HH11	2	0.43
(1,447)	1:162:A:LEU:HD21	1:163:A:ARG:HH12	2	0.43
(1,447)	1:162:A:LEU:HD22	1:163:A:ARG:HH11	2	0.43
(1,447)	1:162:A:LEU:HD22	1:163:A:ARG:HH12	2	0.43
(1,447)	1:162:A:LEU:HD23	1:163:A:ARG:HH11	2	0.43
(1,447)	1:162:A:LEU:HD23	1:163:A:ARG:HH12	2	0.43
(1,432)	1:131:A:GLY:H	1:132:A:ARG:HG2	8	0.43
(1,432)	1:131:A:GLY:H	1:132:A:ARG:HG3	8	0.43
(1,394)	1:39:A:ARG:HA	1:41:A:GLN:HG3	11	0.43
(1,394)	1:39:A:ARG:HA	1:41:A:GLN:HG3	16	0.43
(1,379)	1:73:A:ALA:H	1:75:A:GLU:HG2	2	0.43
(1,379)	1:73:A:ALA:H	1:75:A:GLU:HG3	2	0.43
(1,379)	1:73:A:ALA:H	1:75:A:GLU:HG2	14	0.43
(1,379)	1:73:A:ALA:H	1:75:A:GLU:HG3	14	0.43
(1,357)	1:61:A:LEU:HD11	1:64:A:LYS:H	12	0.43
(1,357)	1:61:A:LEU:HD12	1:64:A:LYS:H	12	0.43
(1,357)	1:61:A:LEU:HD13	1:64:A:LYS:H	12	0.43
(1,354)	1:76:A:ALA:HB1	1:79:A:GLN:HE22	16	0.43
(1,354)	1:76:A:ALA:HB2	1:79:A:GLN:HE22	16	0.43
(1,354)	1:76:A:ALA:HB3	1:79:A:GLN:HE22	16	0.43
(1,335)	1:76:A:ALA:HB1	1:78:A:ASP:H	6	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,335)	1:76:A:ALA:HB2	1:78:A:ASP:H	6	0.43
(1,335)	1:76:A:ALA:HB3	1:78:A:ASP:H	6	0.43
(1,234)	1:66:A:THR:HB	1:87:A:PHE:HB2	20	0.43
(1,208)	1:97:A:HIS:HB2	1:131:A:GLY:H	12	0.43
(1,194)	1:64:A:LYS:HE2	1:69:A:LEU:HD21	9	0.43
(1,194)	1:64:A:LYS:HE2	1:69:A:LEU:HD22	9	0.43
(1,194)	1:64:A:LYS:HE2	1:69:A:LEU:HD23	9	0.43
(1,194)	1:64:A:LYS:HE3	1:69:A:LEU:HD21	9	0.43
(1,194)	1:64:A:LYS:HE3	1:69:A:LEU:HD22	9	0.43
(1,194)	1:64:A:LYS:HE3	1:69:A:LEU:HD23	9	0.43
(1,166)	1:40:A:ALA:H	1:41:A:GLN:HG3	8	0.43
(1,141)	1:97:A:HIS:HB3	1:103:A:LEU:H	14	0.43
(1,121)	1:41:A:GLN:HE21	1:42:A:LEU:HB2	15	0.43
(1,121)	1:41:A:GLN:HE21	1:42:A:LEU:HB2	16	0.43
(1,115)	1:94:A:ARG:HA	1:124:A:HIS:H	5	0.43
(1,110)	1:71:A:ARG:HD2	1:72:A:ILE:H	13	0.43
(1,110)	1:71:A:ARG:HD3	1:72:A:ILE:H	13	0.43
(1,108)	1:39:A:ARG:HD2	1:43:A:ILE:HG21	5	0.43
(1,108)	1:39:A:ARG:HD2	1:43:A:ILE:HG22	5	0.43
(1,108)	1:39:A:ARG:HD2	1:43:A:ILE:HG23	5	0.43
(1,108)	1:39:A:ARG:HD3	1:43:A:ILE:HG21	5	0.43
(1,108)	1:39:A:ARG:HD3	1:43:A:ILE:HG22	5	0.43
(1,108)	1:39:A:ARG:HD3	1:43:A:ILE:HG23	5	0.43
(1,107)	1:56:A:LEU:HD11	1:58:A:ALA:H	11	0.43
(1,107)	1:56:A:LEU:HD12	1:58:A:ALA:H	11	0.43
(1,107)	1:56:A:LEU:HD13	1:58:A:ALA:H	11	0.43
(1,107)	1:56:A:LEU:HD21	1:58:A:ALA:H	11	0.43
(1,107)	1:56:A:LEU:HD22	1:58:A:ALA:H	11	0.43
(1,107)	1:56:A:LEU:HD23	1:58:A:ALA:H	11	0.43
(1,97)	1:93:A:GLU:HB2	1:124:A:HIS:H	3	0.43
(1,97)	1:93:A:GLU:HB3	1:124:A:HIS:H	3	0.43
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG21	13	0.43
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG22	13	0.43
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG23	13	0.43
(1,83)	1:61:A:LEU:H	1:65:A:ASP:HB2	1	0.43
(1,60)	1:47:A:GLN:HE22	1:52:A:GLN:H	19	0.43
(1,47)	1:70:A:ASN:H	1:71:A:ARG:HE	16	0.43
(1,40)	1:74:A:ASN:HA	1:98:A:ALA:HA	13	0.43
(1,24)	1:69:A:LEU:HB2	1:70:A:ASN:HB3	9	0.43
(1,24)	1:69:A:LEU:HB3	1:70:A:ASN:HB3	9	0.43
(1,19)	1:87:A:PHE:HA	1:96:A:ALA:H	11	0.43
(1,1120)	1:77:A:LEU:HD11	1:98:A:ALA:H	20	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1120)	1:77:A:LEU:HD12	1:98:A:ALA:H	20	0.42
(1,1120)	1:77:A:LEU:HD13	1:98:A:ALA:H	20	0.42
(1,1120)	1:77:A:LEU:HD21	1:98:A:ALA:H	20	0.42
(1,1120)	1:77:A:LEU:HD22	1:98:A:ALA:H	20	0.42
(1,1120)	1:77:A:LEU:HD23	1:98:A:ALA:H	20	0.42
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD11	12	0.42
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD12	12	0.42
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD13	12	0.42
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD21	12	0.42
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD22	12	0.42
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD23	12	0.42
(1,1058)	1:89:A:ASP:H	1:149:A:GLY:HA2	19	0.42
(1,983)	1:80:A:PRO:HA	1:164:A:GLY:HA2	14	0.42
(1,983)	1:80:A:PRO:HA	1:164:A:GLY:HA3	14	0.42
(1,864)	1:90:A:ALA:HB1	1:149:A:GLY:H	9	0.42
(1,864)	1:90:A:ALA:HB2	1:149:A:GLY:H	9	0.42
(1,864)	1:90:A:ALA:HB3	1:149:A:GLY:H	9	0.42
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB1	3	0.42
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB2	3	0.42
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB3	3	0.42
(1,790)	1:74:A:ASN:HD21	1:98:A:ALA:HB1	8	0.42
(1,790)	1:74:A:ASN:HD21	1:98:A:ALA:HB2	8	0.42
(1,790)	1:74:A:ASN:HD21	1:98:A:ALA:HB3	8	0.42
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB1	12	0.42
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB2	12	0.42
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB3	12	0.42
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD11	1	0.42
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD12	1	0.42
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD13	1	0.42
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD21	1	0.42
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD22	1	0.42
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD23	1	0.42
(1,688)	1:93:A:GLU:HA	1:125:A:PHE:H	3	0.42
(1,632)	1:105:A:VAL:HG11	1:106:A:ALA:HA	19	0.42
(1,632)	1:105:A:VAL:HG12	1:106:A:ALA:HA	19	0.42
(1,632)	1:105:A:VAL:HG13	1:106:A:ALA:HA	19	0.42
(1,632)	1:105:A:VAL:HG21	1:106:A:ALA:HA	19	0.42
(1,632)	1:105:A:VAL:HG22	1:106:A:ALA:HA	19	0.42
(1,632)	1:105:A:VAL:HG23	1:106:A:ALA:HA	19	0.42
(1,614)	1:49:A:ILE:HG21	1:55:A:PRO:HG2	14	0.42
(1,614)	1:49:A:ILE:HG21	1:55:A:PRO:HG3	14	0.42
(1,614)	1:49:A:ILE:HG22	1:55:A:PRO:HG2	14	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,614)	1:49:A:ILE:HG22	1:55:A:PRO:HG3	14	0.42
(1,614)	1:49:A:ILE:HG23	1:55:A:PRO:HG2	14	0.42
(1,614)	1:49:A:ILE:HG23	1:55:A:PRO:HG3	14	0.42
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG21	4	0.42
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG22	4	0.42
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG23	4	0.42
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG21	4	0.42
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG22	4	0.42
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG23	4	0.42
(1,587)	1:66:A:THR:HB	1:147:A:VAL:HG21	14	0.42
(1,587)	1:66:A:THR:HB	1:147:A:VAL:HG22	14	0.42
(1,587)	1:66:A:THR:HB	1:147:A:VAL:HG23	14	0.42
(1,531)	1:111:A:ALA:HB1	1:114:A:LEU:HB2	8	0.42
(1,531)	1:111:A:ALA:HB1	1:114:A:LEU:HB3	8	0.42
(1,531)	1:111:A:ALA:HB2	1:114:A:LEU:HB2	8	0.42
(1,531)	1:111:A:ALA:HB2	1:114:A:LEU:HB3	8	0.42
(1,531)	1:111:A:ALA:HB3	1:114:A:LEU:HB2	8	0.42
(1,531)	1:111:A:ALA:HB3	1:114:A:LEU:HB3	8	0.42
(1,500)	1:43:A:ILE:HG21	1:47:A:GLN:H	17	0.42
(1,500)	1:43:A:ILE:HG22	1:47:A:GLN:H	17	0.42
(1,500)	1:43:A:ILE:HG23	1:47:A:GLN:H	17	0.42
(1,455)	1:61:A:LEU:HD21	1:63:A:ARG:H	5	0.42
(1,455)	1:61:A:LEU:HD22	1:63:A:ARG:H	5	0.42
(1,455)	1:61:A:LEU:HD23	1:63:A:ARG:H	5	0.42
(1,436)	1:90:A:ALA:HB1	1:148:A:LEU:H	17	0.42
(1,436)	1:90:A:ALA:HB2	1:148:A:LEU:H	17	0.42
(1,436)	1:90:A:ALA:HB3	1:148:A:LEU:H	17	0.42
(1,425)	1:42:A:LEU:HA	1:56:A:LEU:HG	20	0.42
(1,404)	1:50:A:ALA:H	1:51:A:GLU:HB2	17	0.42
(1,404)	1:50:A:ALA:H	1:51:A:GLU:HB3	17	0.42
(1,379)	1:73:A:ALA:H	1:75:A:GLU:HG2	17	0.42
(1,379)	1:73:A:ALA:H	1:75:A:GLU:HG3	17	0.42
(1,377)	1:66:A:THR:HG21	1:70:A:ASN:HB3	6	0.42
(1,377)	1:66:A:THR:HG22	1:70:A:ASN:HB3	6	0.42
(1,377)	1:66:A:THR:HG23	1:70:A:ASN:HB3	6	0.42
(1,377)	1:66:A:THR:HG21	1:70:A:ASN:HB3	8	0.42
(1,377)	1:66:A:THR:HG22	1:70:A:ASN:HB3	8	0.42
(1,377)	1:66:A:THR:HG23	1:70:A:ASN:HB3	8	0.42
(1,357)	1:61:A:LEU:HD11	1:64:A:LYS:H	14	0.42
(1,357)	1:61:A:LEU:HD12	1:64:A:LYS:H	14	0.42
(1,357)	1:61:A:LEU:HD13	1:64:A:LYS:H	14	0.42
(1,329)	1:45:A:ARG:HG2	1:65:A:ASP:HB2	16	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,329)	1:45:A:ARG:HG3	1:65:A:ASP:HB2	16	0.42
(1,306)	1:82:A:VAL:H	1:163:A:ARG:HH11	5	0.42
(1,306)	1:82:A:VAL:H	1:163:A:ARG:HH12	5	0.42
(1,266)	1:87:A:PHE:HD1	1:151:A:VAL:HB	18	0.42
(1,266)	1:87:A:PHE:HD2	1:151:A:VAL:HB	18	0.42
(1,247)	1:74:A:ASN:H	1:75:A:GLU:HG2	11	0.42
(1,247)	1:74:A:ASN:H	1:75:A:GLU:HG3	11	0.42
(1,226)	1:65:A:ASP:H	1:66:A:THR:HA	7	0.42
(1,166)	1:40:A:ALA:H	1:41:A:GLN:HG3	4	0.42
(1,154)	1:79:A:GLN:HE21	1:111:A:ALA:HA	19	0.42
(1,121)	1:41:A:GLN:HE21	1:42:A:LEU:HB2	20	0.42
(1,110)	1:71:A:ARG:HD2	1:72:A:ILE:H	6	0.42
(1,110)	1:71:A:ARG:HD3	1:72:A:ILE:H	6	0.42
(1,110)	1:71:A:ARG:HD2	1:72:A:ILE:H	9	0.42
(1,110)	1:71:A:ARG:HD3	1:72:A:ILE:H	9	0.42
(1,108)	1:39:A:ARG:HD2	1:43:A:ILE:HG21	20	0.42
(1,108)	1:39:A:ARG:HD2	1:43:A:ILE:HG22	20	0.42
(1,108)	1:39:A:ARG:HD2	1:43:A:ILE:HG23	20	0.42
(1,108)	1:39:A:ARG:HD3	1:43:A:ILE:HG21	20	0.42
(1,108)	1:39:A:ARG:HD3	1:43:A:ILE:HG22	20	0.42
(1,108)	1:39:A:ARG:HD3	1:43:A:ILE:HG23	20	0.42
(1,96)	1:96:A:ALA:H	1:97:A:HIS:HD2	20	0.42
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG21	9	0.42
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG22	9	0.42
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG23	9	0.42
(1,90)	1:87:A:PHE:HE1	1:98:A:ALA:H	8	0.42
(1,90)	1:87:A:PHE:HE2	1:98:A:ALA:H	8	0.42
(1,90)	1:87:A:PHE:HE1	1:98:A:ALA:H	19	0.42
(1,90)	1:87:A:PHE:HE2	1:98:A:ALA:H	19	0.42
(1,68)	1:162:A:LEU:HA	1:163:A:ARG:HH11	2	0.42
(1,68)	1:162:A:LEU:HA	1:163:A:ARG:HH12	2	0.42
(1,24)	1:69:A:LEU:HB2	1:70:A:ASN:HB3	2	0.42
(1,24)	1:69:A:LEU:HB3	1:70:A:ASN:HB3	2	0.42
(1,24)	1:69:A:LEU:HB2	1:70:A:ASN:HB3	12	0.42
(1,24)	1:69:A:LEU:HB3	1:70:A:ASN:HB3	12	0.42
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD11	14	0.41
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD12	14	0.41
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD13	14	0.41
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD21	14	0.41
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD22	14	0.41
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD23	14	0.41
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD11	14	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD12	14	0.41
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD13	14	0.41
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD21	14	0.41
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD22	14	0.41
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD23	14	0.41
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG11	17	0.41
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG12	17	0.41
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG13	17	0.41
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG21	17	0.41
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG22	17	0.41
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG23	17	0.41
(1,1115)	1:77:A:LEU:HD11	1:84:A:ALA:H	10	0.41
(1,1115)	1:77:A:LEU:HD12	1:84:A:ALA:H	10	0.41
(1,1115)	1:77:A:LEU:HD13	1:84:A:ALA:H	10	0.41
(1,1115)	1:77:A:LEU:HD21	1:84:A:ALA:H	10	0.41
(1,1115)	1:77:A:LEU:HD22	1:84:A:ALA:H	10	0.41
(1,1115)	1:77:A:LEU:HD23	1:84:A:ALA:H	10	0.41
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD11	4	0.41
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD12	4	0.41
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD13	4	0.41
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD21	4	0.41
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD22	4	0.41
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD23	4	0.41
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD11	5	0.41
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD12	5	0.41
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD13	5	0.41
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD21	5	0.41
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD22	5	0.41
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD23	5	0.41
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD11	9	0.41
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD12	9	0.41
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD13	9	0.41
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD21	9	0.41
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD22	9	0.41
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD23	9	0.41
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD11	17	0.41
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD12	17	0.41
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD13	17	0.41
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD21	17	0.41
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD22	17	0.41
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD23	17	0.41
(1,1058)	1:89:A:ASP:H	1:149:A:GLY:HA2	3	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,959)	1:79:A:GLN:HB2	1:111:A:ALA:HA	17	0.41
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB1	15	0.41
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB2	15	0.41
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB3	15	0.41
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB1	18	0.41
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB2	18	0.41
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB3	18	0.41
(1,811)	1:74:A:ASN:H	1:77:A:LEU:HB2	20	0.41
(1,811)	1:74:A:ASN:H	1:77:A:LEU:HB3	20	0.41
(1,805)	1:41:A:GLN:HE21	1:42:A:LEU:HG	15	0.41
(1,614)	1:49:A:ILE:HG21	1:55:A:PRO:HG2	13	0.41
(1,614)	1:49:A:ILE:HG21	1:55:A:PRO:HG3	13	0.41
(1,614)	1:49:A:ILE:HG22	1:55:A:PRO:HG2	13	0.41
(1,614)	1:49:A:ILE:HG22	1:55:A:PRO:HG3	13	0.41
(1,614)	1:49:A:ILE:HG23	1:55:A:PRO:HG2	13	0.41
(1,614)	1:49:A:ILE:HG23	1:55:A:PRO:HG3	13	0.41
(1,569)	1:108:A:ALA:HB1	1:109:A:GLY:H	9	0.41
(1,569)	1:108:A:ALA:HB2	1:109:A:GLY:H	9	0.41
(1,569)	1:108:A:ALA:HB3	1:109:A:GLY:H	9	0.41
(1,539)	1:70:A:ASN:HD22	1:74:A:ASN:HB2	11	0.41
(1,521)	1:98:A:ALA:HA	1:103:A:LEU:H	16	0.41
(1,477)	1:135:A:SER:HB3	1:136:A:LEU:H	3	0.41
(1,447)	1:162:A:LEU:HD11	1:163:A:ARG:HH11	10	0.41
(1,447)	1:162:A:LEU:HD11	1:163:A:ARG:HH12	10	0.41
(1,447)	1:162:A:LEU:HD12	1:163:A:ARG:HH11	10	0.41
(1,447)	1:162:A:LEU:HD12	1:163:A:ARG:HH12	10	0.41
(1,447)	1:162:A:LEU:HD13	1:163:A:ARG:HH11	10	0.41
(1,447)	1:162:A:LEU:HD13	1:163:A:ARG:HH12	10	0.41
(1,447)	1:162:A:LEU:HD21	1:163:A:ARG:HH11	10	0.41
(1,447)	1:162:A:LEU:HD21	1:163:A:ARG:HH12	10	0.41
(1,447)	1:162:A:LEU:HD22	1:163:A:ARG:HH11	10	0.41
(1,447)	1:162:A:LEU:HD22	1:163:A:ARG:HH12	10	0.41
(1,447)	1:162:A:LEU:HD23	1:163:A:ARG:HH11	10	0.41
(1,447)	1:162:A:LEU:HD23	1:163:A:ARG:HH12	10	0.41
(1,442)	1:141:A:GLU:HB2	1:145:A:GLU:H	3	0.41
(1,442)	1:141:A:GLU:HB3	1:145:A:GLU:H	3	0.41
(1,404)	1:50:A:ALA:H	1:51:A:GLU:HB2	8	0.41
(1,404)	1:50:A:ALA:H	1:51:A:GLU:HB3	8	0.41
(1,377)	1:66:A:THR:HG21	1:70:A:ASN:HB3	3	0.41
(1,377)	1:66:A:THR:HG22	1:70:A:ASN:HB3	3	0.41
(1,377)	1:66:A:THR:HG23	1:70:A:ASN:HB3	3	0.41
(1,371)	1:47:A:GLN:H	1:47:A:GLN:HE21	13	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,357)	1:61:A:LEU:HD11	1:64:A:LYS:H	10	0.41
(1,357)	1:61:A:LEU:HD12	1:64:A:LYS:H	10	0.41
(1,357)	1:61:A:LEU:HD13	1:64:A:LYS:H	10	0.41
(1,335)	1:76:A:ALA:HB1	1:78:A:ASP:H	18	0.41
(1,335)	1:76:A:ALA:HB2	1:78:A:ASP:H	18	0.41
(1,335)	1:76:A:ALA:HB3	1:78:A:ASP:H	18	0.41
(1,330)	1:163:A:ARG:HG2	1:164:A:GLY:H	12	0.41
(1,330)	1:163:A:ARG:HG3	1:164:A:GLY:H	12	0.41
(1,311)	1:98:A:ALA:H	1:152:A:GLU:HB2	5	0.41
(1,311)	1:98:A:ALA:H	1:152:A:GLU:HB3	5	0.41
(1,296)	1:80:A:PRO:HG2	1:163:A:ARG:HH11	14	0.41
(1,296)	1:80:A:PRO:HG2	1:163:A:ARG:HH12	14	0.41
(1,296)	1:80:A:PRO:HG3	1:163:A:ARG:HH11	14	0.41
(1,296)	1:80:A:PRO:HG3	1:163:A:ARG:HH12	14	0.41
(1,267)	1:43:A:ILE:HG21	1:52:A:GLN:HB2	10	0.41
(1,267)	1:43:A:ILE:HG21	1:52:A:GLN:HB3	10	0.41
(1,267)	1:43:A:ILE:HG22	1:52:A:GLN:HB2	10	0.41
(1,267)	1:43:A:ILE:HG22	1:52:A:GLN:HB3	10	0.41
(1,267)	1:43:A:ILE:HG23	1:52:A:GLN:HB2	10	0.41
(1,267)	1:43:A:ILE:HG23	1:52:A:GLN:HB3	10	0.41
(1,266)	1:87:A:PHE:HD1	1:151:A:VAL:HB	11	0.41
(1,266)	1:87:A:PHE:HD2	1:151:A:VAL:HB	11	0.41
(1,251)	1:88:A:LEU:HG	1:150:A:TRP:H	5	0.41
(1,226)	1:65:A:ASP:H	1:66:A:THR:HA	11	0.41
(1,212)	1:47:A:GLN:H	1:51:A:GLU:H	12	0.41
(1,125)	1:94:A:ARG:HH21	1:104:A:THR:HB	12	0.41
(1,125)	1:94:A:ARG:HH22	1:104:A:THR:HB	12	0.41
(1,125)	1:94:A:ARG:HH21	1:104:A:THR:HB	14	0.41
(1,125)	1:94:A:ARG:HH22	1:104:A:THR:HB	14	0.41
(1,110)	1:71:A:ARG:HD2	1:72:A:ILE:H	4	0.41
(1,110)	1:71:A:ARG:HD3	1:72:A:ILE:H	4	0.41
(1,110)	1:71:A:ARG:HD2	1:72:A:ILE:H	12	0.41
(1,110)	1:71:A:ARG:HD3	1:72:A:ILE:H	12	0.41
(1,110)	1:71:A:ARG:HD2	1:72:A:ILE:H	15	0.41
(1,110)	1:71:A:ARG:HD3	1:72:A:ILE:H	15	0.41
(1,107)	1:56:A:LEU:HD11	1:58:A:ALA:H	3	0.41
(1,107)	1:56:A:LEU:HD12	1:58:A:ALA:H	3	0.41
(1,107)	1:56:A:LEU:HD13	1:58:A:ALA:H	3	0.41
(1,107)	1:56:A:LEU:HD21	1:58:A:ALA:H	3	0.41
(1,107)	1:56:A:LEU:HD22	1:58:A:ALA:H	3	0.41
(1,107)	1:56:A:LEU:HD23	1:58:A:ALA:H	3	0.41
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG21	5	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG22	5	0.41
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG23	5	0.41
(1,73)	1:90:A:ALA:HB1	1:149:A:GLY:HA2	18	0.41
(1,73)	1:90:A:ALA:HB2	1:149:A:GLY:HA2	18	0.41
(1,73)	1:90:A:ALA:HB3	1:149:A:GLY:HA2	18	0.41
(1,70)	1:45:A:ARG:HD2	1:47:A:GLN:H	18	0.41
(1,70)	1:45:A:ARG:HD3	1:47:A:GLN:H	18	0.41
(1,47)	1:70:A:ASN:H	1:71:A:ARG:HE	3	0.41
(1,47)	1:70:A:ASN:H	1:71:A:ARG:HE	19	0.41
(1,39)	1:121:A:ASP:H	1:123:A:THR:H	18	0.41
(1,19)	1:87:A:PHE:HA	1:96:A:ALA:H	3	0.41
(1,19)	1:87:A:PHE:HA	1:96:A:ALA:H	17	0.41
(1,1188)	1:139:A:ALA:H	1:151:A:VAL:HG11	16	0.4
(1,1188)	1:139:A:ALA:H	1:151:A:VAL:HG12	16	0.4
(1,1188)	1:139:A:ALA:H	1:151:A:VAL:HG13	16	0.4
(1,1188)	1:139:A:ALA:H	1:151:A:VAL:HG21	16	0.4
(1,1188)	1:139:A:ALA:H	1:151:A:VAL:HG22	16	0.4
(1,1188)	1:139:A:ALA:H	1:151:A:VAL:HG23	16	0.4
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD11	17	0.4
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD12	17	0.4
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD13	17	0.4
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD21	17	0.4
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD22	17	0.4
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD23	17	0.4
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD11	2	0.4
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD12	2	0.4
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD13	2	0.4
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD21	2	0.4
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD22	2	0.4
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD23	2	0.4
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD11	13	0.4
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD12	13	0.4
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD13	13	0.4
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD21	13	0.4
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD22	13	0.4
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD23	13	0.4
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD11	14	0.4
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD12	14	0.4
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD13	14	0.4
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD21	14	0.4
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD22	14	0.4
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD23	14	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG11	1	0.4
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG12	1	0.4
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG13	1	0.4
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG21	1	0.4
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG22	1	0.4
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG23	1	0.4
(1,1058)	1:89:A:ASP:H	1:149:A:GLY:HA2	2	0.4
(1,1018)	1:70:A:ASN:HD22	1:71:A:ARG:HA	6	0.4
(1,1018)	1:70:A:ASN:HD22	1:71:A:ARG:HA	18	0.4
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG21	8	0.4
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG22	8	0.4
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG23	8	0.4
(1,822)	1:75:A:GLU:H	1:77:A:LEU:HB2	5	0.4
(1,822)	1:75:A:GLU:H	1:77:A:LEU:HB3	5	0.4
(1,769)	1:68:A:VAL:H	1:72:A:ILE:HD11	9	0.4
(1,769)	1:68:A:VAL:H	1:72:A:ILE:HD12	9	0.4
(1,769)	1:68:A:VAL:H	1:72:A:ILE:HD13	9	0.4
(1,733)	1:88:A:LEU:HD11	1:94:A:ARG:HA	8	0.4
(1,733)	1:88:A:LEU:HD12	1:94:A:ARG:HA	8	0.4
(1,733)	1:88:A:LEU:HD13	1:94:A:ARG:HA	8	0.4
(1,688)	1:93:A:GLU:HA	1:125:A:PHE:H	6	0.4
(1,632)	1:105:A:VAL:HG11	1:106:A:ALA:HA	9	0.4
(1,632)	1:105:A:VAL:HG12	1:106:A:ALA:HA	9	0.4
(1,632)	1:105:A:VAL:HG13	1:106:A:ALA:HA	9	0.4
(1,632)	1:105:A:VAL:HG21	1:106:A:ALA:HA	9	0.4
(1,632)	1:105:A:VAL:HG22	1:106:A:ALA:HA	9	0.4
(1,632)	1:105:A:VAL:HG23	1:106:A:ALA:HA	9	0.4
(1,614)	1:49:A:ILE:HG21	1:55:A:PRO:HG2	4	0.4
(1,614)	1:49:A:ILE:HG21	1:55:A:PRO:HG3	4	0.4
(1,614)	1:49:A:ILE:HG22	1:55:A:PRO:HG2	4	0.4
(1,614)	1:49:A:ILE:HG22	1:55:A:PRO:HG3	4	0.4
(1,614)	1:49:A:ILE:HG23	1:55:A:PRO:HG2	4	0.4
(1,614)	1:49:A:ILE:HG23	1:55:A:PRO:HG3	4	0.4
(1,614)	1:49:A:ILE:HG21	1:55:A:PRO:HG2	7	0.4
(1,614)	1:49:A:ILE:HG21	1:55:A:PRO:HG3	7	0.4
(1,614)	1:49:A:ILE:HG22	1:55:A:PRO:HG2	7	0.4
(1,614)	1:49:A:ILE:HG22	1:55:A:PRO:HG3	7	0.4
(1,614)	1:49:A:ILE:HG23	1:55:A:PRO:HG2	7	0.4
(1,614)	1:49:A:ILE:HG23	1:55:A:PRO:HG3	7	0.4
(1,592)	1:57:A:ALA:HA	1:158:A:HIS:HD2	1	0.4
(1,592)	1:57:A:ALA:HA	1:158:A:HIS:HD2	10	0.4
(1,539)	1:70:A:ASN:HD22	1:74:A:ASN:HB2	20	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB1	16	0.4
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB2	16	0.4
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB3	16	0.4
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB1	16	0.4
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB2	16	0.4
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB3	16	0.4
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB1	16	0.4
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB2	16	0.4
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB3	16	0.4
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB1	16	0.4
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB2	16	0.4
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB3	16	0.4
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB1	16	0.4
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB2	16	0.4
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB3	16	0.4
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB1	16	0.4
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB2	16	0.4
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB3	16	0.4
(1,461)	1:43:A:ILE:HD11	1:47:A:GLN:H	16	0.4
(1,461)	1:43:A:ILE:HD12	1:47:A:GLN:H	16	0.4
(1,461)	1:43:A:ILE:HD13	1:47:A:GLN:H	16	0.4
(1,455)	1:61:A:LEU:HD21	1:63:A:ARG:H	3	0.4
(1,455)	1:61:A:LEU:HD22	1:63:A:ARG:H	3	0.4
(1,455)	1:61:A:LEU:HD23	1:63:A:ARG:H	3	0.4
(1,442)	1:141:A:GLU:HB2	1:145:A:GLU:H	6	0.4
(1,442)	1:141:A:GLU:HB3	1:145:A:GLU:H	6	0.4
(1,442)	1:141:A:GLU:HB2	1:145:A:GLU:H	18	0.4
(1,442)	1:141:A:GLU:HB3	1:145:A:GLU:H	18	0.4
(1,406)	1:160:A:THR:HB	1:161:A:LEU:HB2	11	0.4
(1,406)	1:160:A:THR:HB	1:161:A:LEU:HB3	11	0.4
(1,404)	1:50:A:ALA:H	1:51:A:GLU:HB2	7	0.4
(1,404)	1:50:A:ALA:H	1:51:A:GLU:HB3	7	0.4
(1,357)	1:61:A:LEU:HD11	1:64:A:LYS:H	1	0.4
(1,357)	1:61:A:LEU:HD12	1:64:A:LYS:H	1	0.4
(1,357)	1:61:A:LEU:HD13	1:64:A:LYS:H	1	0.4
(1,357)	1:61:A:LEU:HD11	1:64:A:LYS:H	8	0.4
(1,357)	1:61:A:LEU:HD12	1:64:A:LYS:H	8	0.4
(1,357)	1:61:A:LEU:HD13	1:64:A:LYS:H	8	0.4
(1,357)	1:61:A:LEU:HD11	1:64:A:LYS:H	20	0.4
(1,357)	1:61:A:LEU:HD12	1:64:A:LYS:H	20	0.4
(1,357)	1:61:A:LEU:HD13	1:64:A:LYS:H	20	0.4
(1,322)	1:60:A:ALA:H	1:65:A:ASP:HB2	13	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,311)	1:98:A:ALA:H	1:152:A:GLU:HB2	16	0.4
(1,311)	1:98:A:ALA:H	1:152:A:GLU:HB3	16	0.4
(1,291)	1:97:A:HIS:H	1:97:A:HIS:HD2	17	0.4
(1,281)	1:115:A:SER:HA	1:116:A:MET:HA	5	0.4
(1,278)	1:47:A:GLN:H	1:52:A:GLN:HE21	8	0.4
(1,267)	1:43:A:ILE:HG21	1:52:A:GLN:HB2	11	0.4
(1,267)	1:43:A:ILE:HG21	1:52:A:GLN:HB3	11	0.4
(1,267)	1:43:A:ILE:HG22	1:52:A:GLN:HB2	11	0.4
(1,267)	1:43:A:ILE:HG22	1:52:A:GLN:HB3	11	0.4
(1,267)	1:43:A:ILE:HG23	1:52:A:GLN:HB2	11	0.4
(1,267)	1:43:A:ILE:HG23	1:52:A:GLN:HB3	11	0.4
(1,247)	1:74:A:ASN:H	1:75:A:GLU:HG2	3	0.4
(1,247)	1:74:A:ASN:H	1:75:A:GLU:HG3	3	0.4
(1,202)	1:163:A:ARG:HE	1:164:A:GLY:H	13	0.4
(1,176)	1:158:A:HIS:H	1:162:A:LEU:HD11	20	0.4
(1,176)	1:158:A:HIS:H	1:162:A:LEU:HD12	20	0.4
(1,176)	1:158:A:HIS:H	1:162:A:LEU:HD13	20	0.4
(1,176)	1:158:A:HIS:H	1:162:A:LEU:HD21	20	0.4
(1,176)	1:158:A:HIS:H	1:162:A:LEU:HD22	20	0.4
(1,176)	1:158:A:HIS:H	1:162:A:LEU:HD23	20	0.4
(1,172)	1:159:A:GLY:H	1:162:A:LEU:HD11	20	0.4
(1,172)	1:159:A:GLY:H	1:162:A:LEU:HD12	20	0.4
(1,172)	1:159:A:GLY:H	1:162:A:LEU:HD13	20	0.4
(1,172)	1:159:A:GLY:H	1:162:A:LEU:HD21	20	0.4
(1,172)	1:159:A:GLY:H	1:162:A:LEU:HD22	20	0.4
(1,172)	1:159:A:GLY:H	1:162:A:LEU:HD23	20	0.4
(1,154)	1:79:A:GLN:HE21	1:111:A:ALA:HA	1	0.4
(1,146)	1:69:A:LEU:H	1:87:A:PHE:HE1	10	0.4
(1,146)	1:69:A:LEU:H	1:87:A:PHE:HE2	10	0.4
(1,145)	1:90:A:ALA:HA	1:149:A:GLY:H	11	0.4
(1,121)	1:41:A:GLN:HE21	1:42:A:LEU:HB2	14	0.4
(1,110)	1:71:A:ARG:HD2	1:72:A:ILE:H	3	0.4
(1,110)	1:71:A:ARG:HD3	1:72:A:ILE:H	3	0.4
(1,110)	1:71:A:ARG:HD2	1:72:A:ILE:H	10	0.4
(1,110)	1:71:A:ARG:HD3	1:72:A:ILE:H	10	0.4
(1,107)	1:56:A:LEU:HD11	1:58:A:ALA:H	4	0.4
(1,107)	1:56:A:LEU:HD12	1:58:A:ALA:H	4	0.4
(1,107)	1:56:A:LEU:HD13	1:58:A:ALA:H	4	0.4
(1,107)	1:56:A:LEU:HD21	1:58:A:ALA:H	4	0.4
(1,107)	1:56:A:LEU:HD22	1:58:A:ALA:H	4	0.4
(1,107)	1:56:A:LEU:HD23	1:58:A:ALA:H	4	0.4
(1,107)	1:56:A:LEU:HD11	1:58:A:ALA:H	8	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,107)	1:56:A:LEU:HD12	1:58:A:ALA:H	8	0.4
(1,107)	1:56:A:LEU:HD13	1:58:A:ALA:H	8	0.4
(1,107)	1:56:A:LEU:HD21	1:58:A:ALA:H	8	0.4
(1,107)	1:56:A:LEU:HD22	1:58:A:ALA:H	8	0.4
(1,107)	1:56:A:LEU:HD23	1:58:A:ALA:H	8	0.4
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG21	18	0.4
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG22	18	0.4
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG23	18	0.4
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG21	2	0.4
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG22	2	0.4
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG23	2	0.4
(1,59)	1:47:A:GLN:HG2	1:52:A:GLN:HE21	12	0.4
(1,59)	1:47:A:GLN:HG3	1:52:A:GLN:HE21	12	0.4
(1,45)	1:94:A:ARG:H	1:125:A:PHE:H	13	0.4
(1,45)	1:94:A:ARG:H	1:125:A:PHE:H	16	0.4
(1,44)	1:43:A:ILE:HG21	1:48:A:LEU:H	8	0.4
(1,44)	1:43:A:ILE:HG22	1:48:A:LEU:H	8	0.4
(1,44)	1:43:A:ILE:HG23	1:48:A:LEU:H	8	0.4
(1,39)	1:121:A:ASP:H	1:123:A:THR:H	3	0.4
(1,7)	1:97:A:HIS:HA	1:150:A:TRP:HZ3	2	0.4
(1,7)	1:97:A:HIS:HA	1:150:A:TRP:HZ3	17	0.4
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD11	6	0.39
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD12	6	0.39
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD13	6	0.39
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD21	6	0.39
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD22	6	0.39
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD23	6	0.39
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD11	19	0.39
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD12	19	0.39
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD13	19	0.39
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD21	19	0.39
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD22	19	0.39
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD23	19	0.39
(1,1058)	1:89:A:ASP:H	1:149:A:GLY:HA2	14	0.39
(1,968)	1:73:A:ALA:HB1	1:75:A:GLU:HB2	20	0.39
(1,968)	1:73:A:ALA:HB1	1:75:A:GLU:HB3	20	0.39
(1,968)	1:73:A:ALA:HB2	1:75:A:GLU:HB2	20	0.39
(1,968)	1:73:A:ALA:HB2	1:75:A:GLU:HB3	20	0.39
(1,968)	1:73:A:ALA:HB3	1:75:A:GLU:HB2	20	0.39
(1,968)	1:73:A:ALA:HB3	1:75:A:GLU:HB3	20	0.39
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG21	11	0.39
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG22	11	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG23	11	0.39
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG21	19	0.39
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG22	19	0.39
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG23	19	0.39
(1,949)	1:102:A:MET:HB2	1:104:A:THR:H	12	0.39
(1,949)	1:102:A:MET:HB3	1:104:A:THR:H	12	0.39
(1,864)	1:90:A:ALA:HB1	1:149:A:GLY:H	20	0.39
(1,864)	1:90:A:ALA:HB2	1:149:A:GLY:H	20	0.39
(1,864)	1:90:A:ALA:HB3	1:149:A:GLY:H	20	0.39
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB1	6	0.39
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB2	6	0.39
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB3	6	0.39
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB1	12	0.39
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB2	12	0.39
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB3	12	0.39
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB1	16	0.39
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB2	16	0.39
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB3	16	0.39
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD11	8	0.39
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD12	8	0.39
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD13	8	0.39
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD21	8	0.39
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD22	8	0.39
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD23	8	0.39
(1,587)	1:66:A:THR:HB	1:147:A:VAL:HG21	16	0.39
(1,587)	1:66:A:THR:HB	1:147:A:VAL:HG22	16	0.39
(1,587)	1:66:A:THR:HB	1:147:A:VAL:HG23	16	0.39
(1,495)	1:93:A:GLU:HG2	1:124:A:HIS:HA	9	0.39
(1,495)	1:93:A:GLU:HG3	1:124:A:HIS:HA	9	0.39
(1,461)	1:43:A:ILE:HD11	1:47:A:GLN:H	6	0.39
(1,461)	1:43:A:ILE:HD12	1:47:A:GLN:H	6	0.39
(1,461)	1:43:A:ILE:HD13	1:47:A:GLN:H	6	0.39
(1,455)	1:61:A:LEU:HD21	1:63:A:ARG:H	13	0.39
(1,455)	1:61:A:LEU:HD22	1:63:A:ARG:H	13	0.39
(1,455)	1:61:A:LEU:HD23	1:63:A:ARG:H	13	0.39
(1,442)	1:141:A:GLU:HB2	1:145:A:GLU:H	16	0.39
(1,442)	1:141:A:GLU:HB3	1:145:A:GLU:H	16	0.39
(1,440)	1:65:A:ASP:HA	1:147:A:VAL:HG11	20	0.39
(1,440)	1:65:A:ASP:HA	1:147:A:VAL:HG12	20	0.39
(1,440)	1:65:A:ASP:HA	1:147:A:VAL:HG13	20	0.39
(1,425)	1:42:A:LEU:HA	1:56:A:LEU:HG	6	0.39
(1,425)	1:42:A:LEU:HA	1:56:A:LEU:HG	18	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,377)	1:66:A:THR:HG21	1:70:A:ASN:HB3	13	0.39
(1,377)	1:66:A:THR:HG22	1:70:A:ASN:HB3	13	0.39
(1,377)	1:66:A:THR:HG23	1:70:A:ASN:HB3	13	0.39
(1,371)	1:47:A:GLN:H	1:47:A:GLN:HE21	8	0.39
(1,301)	1:88:A:LEU:HA	1:95:A:LEU:HB2	6	0.39
(1,301)	1:88:A:LEU:HA	1:95:A:LEU:HB3	6	0.39
(1,301)	1:88:A:LEU:HA	1:95:A:LEU:HB2	11	0.39
(1,301)	1:88:A:LEU:HA	1:95:A:LEU:HB3	11	0.39
(1,296)	1:80:A:PRO:HG2	1:163:A:ARG:HH11	3	0.39
(1,296)	1:80:A:PRO:HG2	1:163:A:ARG:HH12	3	0.39
(1,296)	1:80:A:PRO:HG3	1:163:A:ARG:HH11	3	0.39
(1,296)	1:80:A:PRO:HG3	1:163:A:ARG:HH12	3	0.39
(1,278)	1:47:A:GLN:H	1:52:A:GLN:HE21	2	0.39
(1,272)	1:94:A:ARG:H	1:124:A:HIS:HA	3	0.39
(1,270)	1:82:A:VAL:H	1:155:A:LEU:HB2	5	0.39
(1,270)	1:82:A:VAL:H	1:155:A:LEU:HB3	5	0.39
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB1	19	0.39
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB2	19	0.39
(1,211)	1:84:A:ALA:H	1:98:A:ALA:HB3	19	0.39
(1,208)	1:97:A:HIS:HB2	1:131:A:GLY:H	1	0.39
(1,208)	1:97:A:HIS:HB2	1:131:A:GLY:H	20	0.39
(1,166)	1:40:A:ALA:H	1:41:A:GLN:HG3	5	0.39
(1,166)	1:40:A:ALA:H	1:41:A:GLN:HG3	15	0.39
(1,166)	1:40:A:ALA:H	1:41:A:GLN:HG3	20	0.39
(1,160)	1:97:A:HIS:HB3	1:150:A:TRP:HZ3	15	0.39
(1,154)	1:79:A:GLN:HE21	1:111:A:ALA:HA	8	0.39
(1,133)	1:65:A:ASP:HA	1:147:A:VAL:HG21	7	0.39
(1,133)	1:65:A:ASP:HA	1:147:A:VAL:HG22	7	0.39
(1,133)	1:65:A:ASP:HA	1:147:A:VAL:HG23	7	0.39
(1,121)	1:41:A:GLN:HE21	1:42:A:LEU:HB2	1	0.39
(1,115)	1:94:A:ARG:HA	1:124:A:HIS:H	11	0.39
(1,111)	1:88:A:LEU:HA	1:150:A:TRP:HZ2	6	0.39
(1,110)	1:71:A:ARG:HD2	1:72:A:ILE:H	14	0.39
(1,110)	1:71:A:ARG:HD3	1:72:A:ILE:H	14	0.39
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB1	13	0.39
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB2	13	0.39
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB3	13	0.39
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB1	13	0.39
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB2	13	0.39
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB3	13	0.39
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB1	17	0.39
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB2	17	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB3	17	0.39
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB1	17	0.39
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB2	17	0.39
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB3	17	0.39
(1,107)	1:56:A:LEU:HD11	1:58:A:ALA:H	18	0.39
(1,107)	1:56:A:LEU:HD12	1:58:A:ALA:H	18	0.39
(1,107)	1:56:A:LEU:HD13	1:58:A:ALA:H	18	0.39
(1,107)	1:56:A:LEU:HD21	1:58:A:ALA:H	18	0.39
(1,107)	1:56:A:LEU:HD22	1:58:A:ALA:H	18	0.39
(1,107)	1:56:A:LEU:HD23	1:58:A:ALA:H	18	0.39
(1,107)	1:56:A:LEU:HD11	1:58:A:ALA:H	19	0.39
(1,107)	1:56:A:LEU:HD12	1:58:A:ALA:H	19	0.39
(1,107)	1:56:A:LEU:HD13	1:58:A:ALA:H	19	0.39
(1,107)	1:56:A:LEU:HD21	1:58:A:ALA:H	19	0.39
(1,107)	1:56:A:LEU:HD22	1:58:A:ALA:H	19	0.39
(1,107)	1:56:A:LEU:HD23	1:58:A:ALA:H	19	0.39
(1,104)	1:70:A:ASN:HD22	1:71:A:ARG:HD2	3	0.39
(1,104)	1:70:A:ASN:HD22	1:71:A:ARG:HD3	3	0.39
(1,102)	1:51:A:GLU:H	1:52:A:GLN:HE21	19	0.39
(1,97)	1:93:A:GLU:HB2	1:124:A:HIS:H	13	0.39
(1,97)	1:93:A:GLU:HB3	1:124:A:HIS:H	13	0.39
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG21	11	0.39
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG22	11	0.39
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG23	11	0.39
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG21	15	0.39
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG22	15	0.39
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG23	15	0.39
(1,83)	1:61:A:LEU:H	1:65:A:ASP:HB2	10	0.39
(1,83)	1:61:A:LEU:H	1:65:A:ASP:HB2	14	0.39
(1,53)	1:87:A:PHE:HA	1:150:A:TRP:HA	7	0.39
(1,52)	1:139:A:ALA:H	1:150:A:TRP:HB3	1	0.39
(1,48)	1:65:A:ASP:HB3	1:68:A:VAL:HA	17	0.39
(1,19)	1:87:A:PHE:HA	1:96:A:ALA:H	8	0.39
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG21	2	0.38
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG22	2	0.38
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG23	2	0.38
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG21	2	0.38
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG22	2	0.38
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG23	2	0.38
(1,1182)	1:130:A:LEU:HD11	1:131:A:GLY:HA2	10	0.38
(1,1182)	1:130:A:LEU:HD11	1:131:A:GLY:HA3	10	0.38
(1,1182)	1:130:A:LEU:HD12	1:131:A:GLY:HA2	10	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1182)	1:130:A:LEU:HD12	1:131:A:GLY:HA3	10	0.38
(1,1182)	1:130:A:LEU:HD13	1:131:A:GLY:HA2	10	0.38
(1,1182)	1:130:A:LEU:HD13	1:131:A:GLY:HA3	10	0.38
(1,1182)	1:130:A:LEU:HD21	1:131:A:GLY:HA2	10	0.38
(1,1182)	1:130:A:LEU:HD21	1:131:A:GLY:HA3	10	0.38
(1,1182)	1:130:A:LEU:HD22	1:131:A:GLY:HA2	10	0.38
(1,1182)	1:130:A:LEU:HD22	1:131:A:GLY:HA3	10	0.38
(1,1182)	1:130:A:LEU:HD23	1:131:A:GLY:HA2	10	0.38
(1,1182)	1:130:A:LEU:HD23	1:131:A:GLY:HA3	10	0.38
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD11	8	0.38
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD12	8	0.38
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD13	8	0.38
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD21	8	0.38
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD22	8	0.38
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD23	8	0.38
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD11	11	0.38
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD12	11	0.38
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD13	11	0.38
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD21	11	0.38
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD22	11	0.38
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD23	11	0.38
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD11	11	0.38
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD12	11	0.38
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD13	11	0.38
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD21	11	0.38
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD22	11	0.38
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD23	11	0.38
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG11	14	0.38
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG12	14	0.38
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG13	14	0.38
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG21	14	0.38
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG22	14	0.38
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG23	14	0.38
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD11	5	0.38
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD12	5	0.38
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD13	5	0.38
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD21	5	0.38
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD22	5	0.38
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD23	5	0.38
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD11	8	0.38
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD12	8	0.38
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD13	8	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD21	8	0.38
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD22	8	0.38
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD23	8	0.38
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD11	11	0.38
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD12	11	0.38
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD13	11	0.38
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD21	11	0.38
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD22	11	0.38
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD23	11	0.38
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD11	15	0.38
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD12	15	0.38
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD13	15	0.38
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD21	15	0.38
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD22	15	0.38
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD23	15	0.38
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG11	18	0.38
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG12	18	0.38
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG13	18	0.38
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG21	18	0.38
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG22	18	0.38
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG23	18	0.38
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG11	18	0.38
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG12	18	0.38
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG13	18	0.38
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG21	18	0.38
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG22	18	0.38
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG23	18	0.38
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG11	18	0.38
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG12	18	0.38
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG13	18	0.38
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG21	18	0.38
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG22	18	0.38
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG23	18	0.38
(1,1009)	1:80:A:PRO:HB2	1:164:A:GLY:HA2	14	0.38
(1,1009)	1:80:A:PRO:HB2	1:164:A:GLY:HA3	14	0.38
(1,1009)	1:80:A:PRO:HB3	1:164:A:GLY:HA2	14	0.38
(1,1009)	1:80:A:PRO:HB3	1:164:A:GLY:HA3	14	0.38
(1,998)	1:61:A:LEU:HA	1:65:A:ASP:H	5	0.38
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB1	8	0.38
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB2	8	0.38
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB3	8	0.38
(1,882)	1:130:A:LEU:HD11	1:131:A:GLY:H	7	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,882)	1:130:A:LEU:HD12	1:131:A:GLY:H	7	0.38
(1,882)	1:130:A:LEU:HD13	1:131:A:GLY:H	7	0.38
(1,882)	1:130:A:LEU:HD21	1:131:A:GLY:H	7	0.38
(1,882)	1:130:A:LEU:HD22	1:131:A:GLY:H	7	0.38
(1,882)	1:130:A:LEU:HD23	1:131:A:GLY:H	7	0.38
(1,822)	1:75:A:GLU:H	1:77:A:LEU:HB2	3	0.38
(1,822)	1:75:A:GLU:H	1:77:A:LEU:HB3	3	0.38
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB1	9	0.38
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB2	9	0.38
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB3	9	0.38
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB1	11	0.38
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB2	11	0.38
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB3	11	0.38
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB1	13	0.38
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB2	13	0.38
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB3	13	0.38
(1,769)	1:68:A:VAL:H	1:72:A:ILE:HD11	11	0.38
(1,769)	1:68:A:VAL:H	1:72:A:ILE:HD12	11	0.38
(1,769)	1:68:A:VAL:H	1:72:A:ILE:HD13	11	0.38
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG21	8	0.38
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG22	8	0.38
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG23	8	0.38
(1,612)	1:41:A:GLN:HB2	1:42:A:LEU:H	19	0.38
(1,612)	1:41:A:GLN:HB3	1:42:A:LEU:H	19	0.38
(1,592)	1:57:A:ALA:HA	1:158:A:HIS:HD2	7	0.38
(1,535)	1:110:A:ASP:HB2	1:112:A:SER:H	3	0.38
(1,535)	1:110:A:ASP:HB3	1:112:A:SER:H	3	0.38
(1,521)	1:98:A:ALA:HA	1:103:A:LEU:H	7	0.38
(1,481)	1:43:A:ILE:HA	1:45:A:ARG:HB2	18	0.38
(1,481)	1:43:A:ILE:HA	1:45:A:ARG:HB3	18	0.38
(1,455)	1:61:A:LEU:HD21	1:63:A:ARG:H	11	0.38
(1,455)	1:61:A:LEU:HD22	1:63:A:ARG:H	11	0.38
(1,455)	1:61:A:LEU:HD23	1:63:A:ARG:H	11	0.38
(1,442)	1:141:A:GLU:HB2	1:145:A:GLU:H	9	0.38
(1,442)	1:141:A:GLU:HB3	1:145:A:GLU:H	9	0.38
(1,394)	1:39:A:ARG:HA	1:41:A:GLN:HG3	6	0.38
(1,377)	1:66:A:THR:HG21	1:70:A:ASN:HB3	5	0.38
(1,377)	1:66:A:THR:HG22	1:70:A:ASN:HB3	5	0.38
(1,377)	1:66:A:THR:HG23	1:70:A:ASN:HB3	5	0.38
(1,377)	1:66:A:THR:HG21	1:70:A:ASN:HB3	9	0.38
(1,377)	1:66:A:THR:HG22	1:70:A:ASN:HB3	9	0.38
(1,377)	1:66:A:THR:HG23	1:70:A:ASN:HB3	9	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,332)	1:47:A:GLN:H	1:53:A:LEU:H	15	0.38
(1,322)	1:60:A:ALA:H	1:65:A:ASP:HB2	20	0.38
(1,305)	1:93:A:GLU:HA	1:94:A:ARG:HD2	6	0.38
(1,305)	1:93:A:GLU:HA	1:94:A:ARG:HD3	6	0.38
(1,301)	1:88:A:LEU:HA	1:95:A:LEU:HB2	20	0.38
(1,301)	1:88:A:LEU:HA	1:95:A:LEU:HB3	20	0.38
(1,285)	1:42:A:LEU:HB3	1:44:A:GLU:H	9	0.38
(1,267)	1:43:A:ILE:HG21	1:52:A:GLN:HB2	4	0.38
(1,267)	1:43:A:ILE:HG21	1:52:A:GLN:HB3	4	0.38
(1,267)	1:43:A:ILE:HG22	1:52:A:GLN:HB2	4	0.38
(1,267)	1:43:A:ILE:HG22	1:52:A:GLN:HB3	4	0.38
(1,267)	1:43:A:ILE:HG23	1:52:A:GLN:HB2	4	0.38
(1,267)	1:43:A:ILE:HG23	1:52:A:GLN:HB3	4	0.38
(1,212)	1:47:A:GLN:H	1:51:A:GLU:H	18	0.38
(1,210)	1:70:A:ASN:HD21	1:71:A:ARG:HA	16	0.38
(1,154)	1:79:A:GLN:HE21	1:111:A:ALA:HA	18	0.38
(1,141)	1:97:A:HIS:HB3	1:103:A:LEU:H	9	0.38
(1,121)	1:41:A:GLN:HE21	1:42:A:LEU:HB2	9	0.38
(1,121)	1:41:A:GLN:HE21	1:42:A:LEU:HB2	10	0.38
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB1	7	0.38
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB2	7	0.38
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB3	7	0.38
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB1	7	0.38
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB2	7	0.38
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB3	7	0.38
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB1	14	0.38
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB2	14	0.38
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB3	14	0.38
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB1	14	0.38
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB2	14	0.38
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB3	14	0.38
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG21	12	0.38
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG22	12	0.38
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG23	12	0.38
(1,66)	1:152:A:GLU:HA	1:154:A:GLU:H	5	0.38
(1,53)	1:87:A:PHE:HA	1:150:A:TRP:HA	20	0.38
(1,44)	1:43:A:ILE:HG21	1:48:A:LEU:H	7	0.38
(1,44)	1:43:A:ILE:HG22	1:48:A:LEU:H	7	0.38
(1,44)	1:43:A:ILE:HG23	1:48:A:LEU:H	7	0.38
(1,44)	1:43:A:ILE:HG21	1:48:A:LEU:H	19	0.38
(1,44)	1:43:A:ILE:HG22	1:48:A:LEU:H	19	0.38
(1,44)	1:43:A:ILE:HG23	1:48:A:LEU:H	19	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,28)	1:146:A:ARG:HE	1:147:A:VAL:HG21	18	0.38
(1,28)	1:146:A:ARG:HE	1:147:A:VAL:HG22	18	0.38
(1,28)	1:146:A:ARG:HE	1:147:A:VAL:HG23	18	0.38
(1,24)	1:69:A:LEU:HB2	1:70:A:ASN:HB3	6	0.38
(1,24)	1:69:A:LEU:HB3	1:70:A:ASN:HB3	6	0.38
(1,24)	1:69:A:LEU:HB2	1:70:A:ASN:HB3	16	0.38
(1,24)	1:69:A:LEU:HB3	1:70:A:ASN:HB3	16	0.38
(1,19)	1:87:A:PHE:HA	1:96:A:ALA:H	10	0.38
(1,19)	1:87:A:PHE:HA	1:96:A:ALA:H	13	0.38
(1,19)	1:87:A:PHE:HA	1:96:A:ALA:H	14	0.38
(1,19)	1:87:A:PHE:HA	1:96:A:ALA:H	20	0.38
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD11	6	0.37
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD12	6	0.37
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD13	6	0.37
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD21	6	0.37
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD22	6	0.37
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD23	6	0.37
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD11	6	0.37
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD12	6	0.37
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD13	6	0.37
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD21	6	0.37
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD22	6	0.37
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD23	6	0.37
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG21	17	0.37
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG22	17	0.37
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG23	17	0.37
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG21	17	0.37
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG22	17	0.37
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG23	17	0.37
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD11	4	0.37
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD12	4	0.37
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD13	4	0.37
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD21	4	0.37
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD22	4	0.37
(1,1166)	1:90:A:ALA:HA	1:148:A:LEU:HD23	4	0.37
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD11	17	0.37
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD12	17	0.37
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD13	17	0.37
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD21	17	0.37
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD22	17	0.37
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD23	17	0.37
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD11	3	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD12	3	0.37
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD13	3	0.37
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD21	3	0.37
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD22	3	0.37
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD23	3	0.37
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG11	2	0.37
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG12	2	0.37
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG13	2	0.37
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG21	2	0.37
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG22	2	0.37
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG23	2	0.37
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG11	2	0.37
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG12	2	0.37
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG13	2	0.37
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG21	2	0.37
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG22	2	0.37
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG23	2	0.37
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG11	2	0.37
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG12	2	0.37
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG13	2	0.37
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG21	2	0.37
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG22	2	0.37
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG23	2	0.37
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG11	10	0.37
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG12	10	0.37
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG13	10	0.37
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG21	10	0.37
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG22	10	0.37
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG23	10	0.37
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG11	20	0.37
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG12	20	0.37
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG13	20	0.37
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG21	20	0.37
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG22	20	0.37
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG23	20	0.37
(1,1058)	1:89:A:ASP:H	1:149:A:GLY:HA2	15	0.37
(1,998)	1:61:A:LEU:HA	1:65:A:ASP:H	20	0.37
(1,959)	1:79:A:GLN:HB2	1:111:A:ALA:HA	2	0.37
(1,836)	1:136:A:LEU:HG	1:137:A:SER:H	14	0.37
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB1	7	0.37
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB2	7	0.37
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB3	7	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB1	14	0.37
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB2	14	0.37
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB3	14	0.37
(1,805)	1:41:A:GLN:HE21	1:42:A:LEU:HG	1	0.37
(1,803)	1:89:A:ASP:H	1:95:A:LEU:HG	19	0.37
(1,742)	1:88:A:LEU:HB2	1:93:A:GLU:HG2	2	0.37
(1,742)	1:88:A:LEU:HB2	1:93:A:GLU:HG3	2	0.37
(1,742)	1:88:A:LEU:HB3	1:93:A:GLU:HG2	2	0.37
(1,742)	1:88:A:LEU:HB3	1:93:A:GLU:HG3	2	0.37
(1,742)	1:88:A:LEU:HB2	1:93:A:GLU:HG2	16	0.37
(1,742)	1:88:A:LEU:HB2	1:93:A:GLU:HG3	16	0.37
(1,742)	1:88:A:LEU:HB3	1:93:A:GLU:HG2	16	0.37
(1,742)	1:88:A:LEU:HB3	1:93:A:GLU:HG3	16	0.37
(1,733)	1:88:A:LEU:HD11	1:94:A:ARG:HA	18	0.37
(1,733)	1:88:A:LEU:HD12	1:94:A:ARG:HA	18	0.37
(1,733)	1:88:A:LEU:HD13	1:94:A:ARG:HA	18	0.37
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG21	6	0.37
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG22	6	0.37
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG23	6	0.37
(1,657)	1:59:A:THR:HA	1:62:A:ALA:H	18	0.37
(1,612)	1:41:A:GLN:HB2	1:42:A:LEU:H	20	0.37
(1,612)	1:41:A:GLN:HB3	1:42:A:LEU:H	20	0.37
(1,588)	1:87:A:PHE:HD1	1:151:A:VAL:HG11	20	0.37
(1,588)	1:87:A:PHE:HD1	1:151:A:VAL:HG12	20	0.37
(1,588)	1:87:A:PHE:HD1	1:151:A:VAL:HG13	20	0.37
(1,588)	1:87:A:PHE:HD2	1:151:A:VAL:HG11	20	0.37
(1,588)	1:87:A:PHE:HD2	1:151:A:VAL:HG12	20	0.37
(1,588)	1:87:A:PHE:HD2	1:151:A:VAL:HG13	20	0.37
(1,568)	1:111:A:ALA:HA	1:114:A:LEU:H	6	0.37
(1,521)	1:98:A:ALA:HA	1:103:A:LEU:H	12	0.37
(1,495)	1:93:A:GLU:HG2	1:124:A:HIS:HA	10	0.37
(1,495)	1:93:A:GLU:HG3	1:124:A:HIS:HA	10	0.37
(1,440)	1:65:A:ASP:HA	1:147:A:VAL:HG11	7	0.37
(1,440)	1:65:A:ASP:HA	1:147:A:VAL:HG12	7	0.37
(1,440)	1:65:A:ASP:HA	1:147:A:VAL:HG13	7	0.37
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG21	7	0.37
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG22	7	0.37
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG23	7	0.37
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG21	7	0.37
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG22	7	0.37
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG23	7	0.37
(1,394)	1:39:A:ARG:HA	1:41:A:GLN:HG3	10	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,377)	1:66:A:THR:HG21	1:70:A:ASN:HB3	1	0.37
(1,377)	1:66:A:THR:HG22	1:70:A:ASN:HB3	1	0.37
(1,377)	1:66:A:THR:HG23	1:70:A:ASN:HB3	1	0.37
(1,375)	1:160:A:THR:H	1:162:A:LEU:HD11	13	0.37
(1,375)	1:160:A:THR:H	1:162:A:LEU:HD12	13	0.37
(1,375)	1:160:A:THR:H	1:162:A:LEU:HD13	13	0.37
(1,375)	1:160:A:THR:H	1:162:A:LEU:HD21	13	0.37
(1,375)	1:160:A:THR:H	1:162:A:LEU:HD22	13	0.37
(1,375)	1:160:A:THR:H	1:162:A:LEU:HD23	13	0.37
(1,357)	1:61:A:LEU:HD11	1:64:A:LYS:H	2	0.37
(1,357)	1:61:A:LEU:HD12	1:64:A:LYS:H	2	0.37
(1,357)	1:61:A:LEU:HD13	1:64:A:LYS:H	2	0.37
(1,357)	1:61:A:LEU:HD11	1:64:A:LYS:H	4	0.37
(1,357)	1:61:A:LEU:HD12	1:64:A:LYS:H	4	0.37
(1,357)	1:61:A:LEU:HD13	1:64:A:LYS:H	4	0.37
(1,357)	1:61:A:LEU:HD11	1:64:A:LYS:H	13	0.37
(1,357)	1:61:A:LEU:HD12	1:64:A:LYS:H	13	0.37
(1,357)	1:61:A:LEU:HD13	1:64:A:LYS:H	13	0.37
(1,332)	1:47:A:GLN:H	1:53:A:LEU:H	12	0.37
(1,329)	1:45:A:ARG:HG2	1:65:A:ASP:HB2	11	0.37
(1,329)	1:45:A:ARG:HG3	1:65:A:ASP:HB2	11	0.37
(1,322)	1:60:A:ALA:H	1:65:A:ASP:HB2	9	0.37
(1,322)	1:60:A:ALA:H	1:65:A:ASP:HB2	12	0.37
(1,305)	1:93:A:GLU:HA	1:94:A:ARG:HD2	13	0.37
(1,305)	1:93:A:GLU:HA	1:94:A:ARG:HD3	13	0.37
(1,291)	1:97:A:HIS:H	1:97:A:HIS:HD2	11	0.37
(1,278)	1:47:A:GLN:H	1:52:A:GLN:HE21	20	0.37
(1,251)	1:88:A:LEU:HG	1:150:A:TRP:H	7	0.37
(1,248)	1:61:A:LEU:HD21	1:64:A:LYS:H	7	0.37
(1,248)	1:61:A:LEU:HD22	1:64:A:LYS:H	7	0.37
(1,248)	1:61:A:LEU:HD23	1:64:A:LYS:H	7	0.37
(1,234)	1:66:A:THR:HB	1:87:A:PHE:HB2	1	0.37
(1,212)	1:47:A:GLN:H	1:51:A:GLU:H	20	0.37
(1,210)	1:70:A:ASN:HD21	1:71:A:ARG:HA	11	0.37
(1,208)	1:97:A:HIS:HB2	1:131:A:GLY:H	2	0.37
(1,202)	1:163:A:ARG:HE	1:164:A:GLY:H	5	0.37
(1,172)	1:159:A:GLY:H	1:162:A:LEU:HD11	3	0.37
(1,172)	1:159:A:GLY:H	1:162:A:LEU:HD12	3	0.37
(1,172)	1:159:A:GLY:H	1:162:A:LEU:HD13	3	0.37
(1,172)	1:159:A:GLY:H	1:162:A:LEU:HD21	3	0.37
(1,172)	1:159:A:GLY:H	1:162:A:LEU:HD22	3	0.37
(1,172)	1:159:A:GLY:H	1:162:A:LEU:HD23	3	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,129)	1:70:A:ASN:HB2	1:71:A:ARG:HE	8	0.37
(1,125)	1:94:A:ARG:HH21	1:104:A:THR:HB	15	0.37
(1,125)	1:94:A:ARG:HH22	1:104:A:THR:HB	15	0.37
(1,112)	1:88:A:LEU:HB2	1:150:A:TRP:HB3	18	0.37
(1,112)	1:88:A:LEU:HB3	1:150:A:TRP:HB3	18	0.37
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB1	15	0.37
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB2	15	0.37
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB3	15	0.37
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB1	15	0.37
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB2	15	0.37
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB3	15	0.37
(1,106)	1:75:A:GLU:H	1:78:A:ASP:H	18	0.37
(1,104)	1:70:A:ASN:HD22	1:71:A:ARG:HD2	2	0.37
(1,104)	1:70:A:ASN:HD22	1:71:A:ARG:HD3	2	0.37
(1,104)	1:70:A:ASN:HD22	1:71:A:ARG:HD2	13	0.37
(1,104)	1:70:A:ASN:HD22	1:71:A:ARG:HD3	13	0.37
(1,102)	1:51:A:GLU:H	1:52:A:GLN:HE21	8	0.37
(1,83)	1:61:A:LEU:H	1:65:A:ASP:HB2	15	0.37
(1,66)	1:152:A:GLU:HA	1:154:A:GLU:H	12	0.37
(1,47)	1:70:A:ASN:H	1:71:A:ARG:HE	8	0.37
(1,45)	1:94:A:ARG:H	1:125:A:PHE:H	6	0.37
(1,44)	1:43:A:ILE:HG21	1:48:A:LEU:H	1	0.37
(1,44)	1:43:A:ILE:HG22	1:48:A:LEU:H	1	0.37
(1,44)	1:43:A:ILE:HG23	1:48:A:LEU:H	1	0.37
(1,44)	1:43:A:ILE:HG21	1:48:A:LEU:H	6	0.37
(1,44)	1:43:A:ILE:HG22	1:48:A:LEU:H	6	0.37
(1,44)	1:43:A:ILE:HG23	1:48:A:LEU:H	6	0.37
(1,26)	1:144:A:ASP:HB2	1:145:A:GLU:HG2	10	0.37
(1,26)	1:144:A:ASP:HB2	1:145:A:GLU:HG3	10	0.37
(1,26)	1:144:A:ASP:HB3	1:145:A:GLU:HG2	10	0.37
(1,26)	1:144:A:ASP:HB3	1:145:A:GLU:HG3	10	0.37
(1,24)	1:69:A:LEU:HB2	1:70:A:ASN:HB3	4	0.37
(1,24)	1:69:A:LEU:HB3	1:70:A:ASN:HB3	4	0.37
(1,19)	1:87:A:PHE:HA	1:96:A:ALA:H	2	0.37
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG21	5	0.36
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG22	5	0.36
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG23	5	0.36
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG21	5	0.36
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG22	5	0.36
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG23	5	0.36
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG11	4	0.36
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG12	4	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG13	4	0.36
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG21	4	0.36
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG22	4	0.36
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG23	4	0.36
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG11	4	0.36
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG12	4	0.36
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG13	4	0.36
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG21	4	0.36
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG22	4	0.36
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG23	4	0.36
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG11	4	0.36
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG12	4	0.36
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG13	4	0.36
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG21	4	0.36
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG22	4	0.36
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG23	4	0.36
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG11	16	0.36
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG12	16	0.36
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG13	16	0.36
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG21	16	0.36
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG22	16	0.36
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG23	16	0.36
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG11	16	0.36
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG12	16	0.36
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG13	16	0.36
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG21	16	0.36
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG22	16	0.36
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG23	16	0.36
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG11	16	0.36
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG12	16	0.36
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG13	16	0.36
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG21	16	0.36
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG22	16	0.36
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG23	16	0.36
(1,1058)	1:89:A:ASP:H	1:149:A:GLY:HA2	9	0.36
(1,998)	1:61:A:LEU:HA	1:65:A:ASP:H	2	0.36
(1,968)	1:73:A:ALA:HB1	1:75:A:GLU:HB2	14	0.36
(1,968)	1:73:A:ALA:HB1	1:75:A:GLU:HB3	14	0.36
(1,968)	1:73:A:ALA:HB2	1:75:A:GLU:HB2	14	0.36
(1,968)	1:73:A:ALA:HB2	1:75:A:GLU:HB3	14	0.36
(1,968)	1:73:A:ALA:HB3	1:75:A:GLU:HB2	14	0.36
(1,968)	1:73:A:ALA:HB3	1:75:A:GLU:HB3	14	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,841)	1:130:A:LEU:HD11	1:132:A:ARG:H	4	0.36
(1,841)	1:130:A:LEU:HD12	1:132:A:ARG:H	4	0.36
(1,841)	1:130:A:LEU:HD13	1:132:A:ARG:H	4	0.36
(1,841)	1:130:A:LEU:HD21	1:132:A:ARG:H	4	0.36
(1,841)	1:130:A:LEU:HD22	1:132:A:ARG:H	4	0.36
(1,841)	1:130:A:LEU:HD23	1:132:A:ARG:H	4	0.36
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB1	1	0.36
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB2	1	0.36
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB3	1	0.36
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB1	19	0.36
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB2	19	0.36
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB3	19	0.36
(1,742)	1:88:A:LEU:HB2	1:93:A:GLU:HG2	19	0.36
(1,742)	1:88:A:LEU:HB2	1:93:A:GLU:HG3	19	0.36
(1,742)	1:88:A:LEU:HB3	1:93:A:GLU:HG2	19	0.36
(1,742)	1:88:A:LEU:HB3	1:93:A:GLU:HG3	19	0.36
(1,707)	1:74:A:ASN:HA	1:98:A:ALA:HB1	18	0.36
(1,707)	1:74:A:ASN:HA	1:98:A:ALA:HB2	18	0.36
(1,707)	1:74:A:ASN:HA	1:98:A:ALA:HB3	18	0.36
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG21	3	0.36
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG22	3	0.36
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG23	3	0.36
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG21	3	0.36
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG22	3	0.36
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG23	3	0.36
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG21	14	0.36
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG22	14	0.36
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG23	14	0.36
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG21	14	0.36
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG22	14	0.36
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG23	14	0.36
(1,612)	1:41:A:GLN:HB2	1:42:A:LEU:H	6	0.36
(1,612)	1:41:A:GLN:HB3	1:42:A:LEU:H	6	0.36
(1,612)	1:41:A:GLN:HB2	1:42:A:LEU:H	10	0.36
(1,612)	1:41:A:GLN:HB3	1:42:A:LEU:H	10	0.36
(1,612)	1:41:A:GLN:HB2	1:42:A:LEU:H	16	0.36
(1,612)	1:41:A:GLN:HB3	1:42:A:LEU:H	16	0.36
(1,495)	1:93:A:GLU:HG2	1:124:A:HIS:HA	6	0.36
(1,495)	1:93:A:GLU:HG3	1:124:A:HIS:HA	6	0.36
(1,461)	1:43:A:ILE:HD11	1:47:A:GLN:H	1	0.36
(1,461)	1:43:A:ILE:HD12	1:47:A:GLN:H	1	0.36
(1,461)	1:43:A:ILE:HD13	1:47:A:GLN:H	1	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,461)	1:43:A:ILE:HD11	1:47:A:GLN:H	8	0.36
(1,461)	1:43:A:ILE:HD12	1:47:A:GLN:H	8	0.36
(1,461)	1:43:A:ILE:HD13	1:47:A:GLN:H	8	0.36
(1,461)	1:43:A:ILE:HD11	1:47:A:GLN:H	13	0.36
(1,461)	1:43:A:ILE:HD12	1:47:A:GLN:H	13	0.36
(1,461)	1:43:A:ILE:HD13	1:47:A:GLN:H	13	0.36
(1,455)	1:61:A:LEU:HD21	1:63:A:ARG:H	19	0.36
(1,455)	1:61:A:LEU:HD22	1:63:A:ARG:H	19	0.36
(1,455)	1:61:A:LEU:HD23	1:63:A:ARG:H	19	0.36
(1,432)	1:131:A:GLY:H	1:132:A:ARG:HG2	9	0.36
(1,432)	1:131:A:GLY:H	1:132:A:ARG:HG3	9	0.36
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD21	16	0.36
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD22	16	0.36
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD23	16	0.36
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD21	16	0.36
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD22	16	0.36
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD23	16	0.36
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD21	16	0.36
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD22	16	0.36
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD23	16	0.36
(1,377)	1:66:A:THR:HG21	1:70:A:ASN:HB3	11	0.36
(1,377)	1:66:A:THR:HG22	1:70:A:ASN:HB3	11	0.36
(1,377)	1:66:A:THR:HG23	1:70:A:ASN:HB3	11	0.36
(1,335)	1:76:A:ALA:HB1	1:78:A:ASP:H	13	0.36
(1,335)	1:76:A:ALA:HB2	1:78:A:ASP:H	13	0.36
(1,335)	1:76:A:ALA:HB3	1:78:A:ASP:H	13	0.36
(1,332)	1:47:A:GLN:H	1:53:A:LEU:H	11	0.36
(1,305)	1:93:A:GLU:HA	1:94:A:ARG:HD2	16	0.36
(1,305)	1:93:A:GLU:HA	1:94:A:ARG:HD3	16	0.36
(1,257)	1:104:A:THR:H	1:106:A:ALA:H	11	0.36
(1,251)	1:88:A:LEU:HG	1:150:A:TRP:H	19	0.36
(1,249)	1:139:A:ALA:H	1:147:A:VAL:HG21	16	0.36
(1,249)	1:139:A:ALA:H	1:147:A:VAL:HG22	16	0.36
(1,249)	1:139:A:ALA:H	1:147:A:VAL:HG23	16	0.36
(1,248)	1:61:A:LEU:HD21	1:64:A:LYS:H	8	0.36
(1,248)	1:61:A:LEU:HD22	1:64:A:LYS:H	8	0.36
(1,248)	1:61:A:LEU:HD23	1:64:A:LYS:H	8	0.36
(1,247)	1:74:A:ASN:H	1:75:A:GLU:HG2	5	0.36
(1,247)	1:74:A:ASN:H	1:75:A:GLU:HG3	5	0.36
(1,208)	1:97:A:HIS:HB2	1:131:A:GLY:H	10	0.36
(1,166)	1:40:A:ALA:H	1:41:A:GLN:HG3	1	0.36
(1,145)	1:90:A:ALA:HA	1:149:A:GLY:H	20	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,141)	1:97:A:HIS:HB3	1:103:A:LEU:H	11	0.36
(1,112)	1:88:A:LEU:HB2	1:150:A:TRP:HB3	8	0.36
(1,112)	1:88:A:LEU:HB3	1:150:A:TRP:HB3	8	0.36
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB1	5	0.36
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB2	5	0.36
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB3	5	0.36
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB1	5	0.36
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB2	5	0.36
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB3	5	0.36
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG21	7	0.36
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG22	7	0.36
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG23	7	0.36
(1,77)	1:88:A:LEU:HD11	1:124:A:HIS:H	11	0.36
(1,77)	1:88:A:LEU:HD12	1:124:A:HIS:H	11	0.36
(1,77)	1:88:A:LEU:HD13	1:124:A:HIS:H	11	0.36
(1,66)	1:152:A:GLU:HA	1:154:A:GLU:H	16	0.36
(1,60)	1:47:A:GLN:HE22	1:52:A:GLN:H	1	0.36
(1,48)	1:65:A:ASP:HB3	1:68:A:VAL:HA	12	0.36
(1,24)	1:69:A:LEU:HB2	1:70:A:ASN:HB3	13	0.36
(1,24)	1:69:A:LEU:HB3	1:70:A:ASN:HB3	13	0.36
(1,24)	1:69:A:LEU:HB2	1:70:A:ASN:HB3	18	0.36
(1,24)	1:69:A:LEU:HB3	1:70:A:ASN:HB3	18	0.36
(1,13)	1:47:A:GLN:HE21	1:52:A:GLN:HG2	8	0.36
(1,13)	1:47:A:GLN:HE21	1:52:A:GLN:HG3	8	0.36
(1,13)	1:47:A:GLN:HE21	1:52:A:GLN:HG2	19	0.36
(1,13)	1:47:A:GLN:HE21	1:52:A:GLN:HG3	19	0.36
(1,7)	1:97:A:HIS:HA	1:150:A:TRP:HZ3	3	0.36
(1,1193)	1:148:A:LEU:HD11	1:149:A:GLY:H	3	0.35
(1,1193)	1:148:A:LEU:HD12	1:149:A:GLY:H	3	0.35
(1,1193)	1:148:A:LEU:HD13	1:149:A:GLY:H	3	0.35
(1,1193)	1:148:A:LEU:HD21	1:149:A:GLY:H	3	0.35
(1,1193)	1:148:A:LEU:HD22	1:149:A:GLY:H	3	0.35
(1,1193)	1:148:A:LEU:HD23	1:149:A:GLY:H	3	0.35
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG11	4	0.35
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG12	4	0.35
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG13	4	0.35
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG21	4	0.35
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG22	4	0.35
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG23	4	0.35
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG11	6	0.35
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG12	6	0.35
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG13	6	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG21	6	0.35
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG22	6	0.35
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG23	6	0.35
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG11	18	0.35
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG12	18	0.35
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG13	18	0.35
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG21	18	0.35
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG22	18	0.35
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG23	18	0.35
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD11	20	0.35
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD12	20	0.35
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD13	20	0.35
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD21	20	0.35
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD22	20	0.35
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD23	20	0.35
(1,1120)	1:77:A:LEU:HD11	1:98:A:ALA:H	16	0.35
(1,1120)	1:77:A:LEU:HD12	1:98:A:ALA:H	16	0.35
(1,1120)	1:77:A:LEU:HD13	1:98:A:ALA:H	16	0.35
(1,1120)	1:77:A:LEU:HD21	1:98:A:ALA:H	16	0.35
(1,1120)	1:77:A:LEU:HD22	1:98:A:ALA:H	16	0.35
(1,1120)	1:77:A:LEU:HD23	1:98:A:ALA:H	16	0.35
(1,1018)	1:70:A:ASN:HD22	1:71:A:ARG:HA	4	0.35
(1,1018)	1:70:A:ASN:HD22	1:71:A:ARG:HA	9	0.35
(1,998)	1:61:A:LEU:HA	1:65:A:ASP:H	12	0.35
(1,998)	1:61:A:LEU:HA	1:65:A:ASP:H	19	0.35
(1,996)	1:138:A:GLY:H	1:140:A:THR:HG21	16	0.35
(1,996)	1:138:A:GLY:H	1:140:A:THR:HG22	16	0.35
(1,996)	1:138:A:GLY:H	1:140:A:THR:HG23	16	0.35
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD11	2	0.35
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD12	2	0.35
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD13	2	0.35
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD21	2	0.35
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD22	2	0.35
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD23	2	0.35
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD11	2	0.35
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD12	2	0.35
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD13	2	0.35
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD21	2	0.35
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD22	2	0.35
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD23	2	0.35
(1,968)	1:73:A:ALA:HB1	1:75:A:GLU:HB2	3	0.35
(1,968)	1:73:A:ALA:HB1	1:75:A:GLU:HB3	3	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,968)	1:73:A:ALA:HB2	1:75:A:GLU:HB2	3	0.35
(1,968)	1:73:A:ALA:HB2	1:75:A:GLU:HB3	3	0.35
(1,968)	1:73:A:ALA:HB3	1:75:A:GLU:HB2	3	0.35
(1,968)	1:73:A:ALA:HB3	1:75:A:GLU:HB3	3	0.35
(1,968)	1:73:A:ALA:HB1	1:75:A:GLU:HB2	18	0.35
(1,968)	1:73:A:ALA:HB1	1:75:A:GLU:HB3	18	0.35
(1,968)	1:73:A:ALA:HB2	1:75:A:GLU:HB2	18	0.35
(1,968)	1:73:A:ALA:HB2	1:75:A:GLU:HB3	18	0.35
(1,968)	1:73:A:ALA:HB3	1:75:A:GLU:HB2	18	0.35
(1,968)	1:73:A:ALA:HB3	1:75:A:GLU:HB3	18	0.35
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG21	16	0.35
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG22	16	0.35
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG23	16	0.35
(1,959)	1:79:A:GLN:HB2	1:111:A:ALA:HA	6	0.35
(1,946)	1:136:A:LEU:HB2	1:138:A:GLY:H	13	0.35
(1,946)	1:136:A:LEU:HB3	1:138:A:GLY:H	13	0.35
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG21	10	0.35
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG22	10	0.35
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG23	10	0.35
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG21	10	0.35
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG22	10	0.35
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG23	10	0.35
(1,849)	1:89:A:ASP:H	1:95:A:LEU:HD21	3	0.35
(1,849)	1:89:A:ASP:H	1:95:A:LEU:HD22	3	0.35
(1,849)	1:89:A:ASP:H	1:95:A:LEU:HD23	3	0.35
(1,849)	1:89:A:ASP:H	1:95:A:LEU:HD21	7	0.35
(1,849)	1:89:A:ASP:H	1:95:A:LEU:HD22	7	0.35
(1,849)	1:89:A:ASP:H	1:95:A:LEU:HD23	7	0.35
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB1	8	0.35
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB2	8	0.35
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB3	8	0.35
(1,811)	1:74:A:ASN:H	1:77:A:LEU:HB2	8	0.35
(1,811)	1:74:A:ASN:H	1:77:A:LEU:HB3	8	0.35
(1,797)	1:51:A:GLU:HB2	1:52:A:GLN:HE22	20	0.35
(1,797)	1:51:A:GLU:HB3	1:52:A:GLN:HE22	20	0.35
(1,790)	1:74:A:ASN:HD21	1:98:A:ALA:HB1	20	0.35
(1,790)	1:74:A:ASN:HD21	1:98:A:ALA:HB2	20	0.35
(1,790)	1:74:A:ASN:HD21	1:98:A:ALA:HB3	20	0.35
(1,742)	1:88:A:LEU:HB2	1:93:A:GLU:HG2	6	0.35
(1,742)	1:88:A:LEU:HB2	1:93:A:GLU:HG3	6	0.35
(1,742)	1:88:A:LEU:HB3	1:93:A:GLU:HG2	6	0.35
(1,742)	1:88:A:LEU:HB3	1:93:A:GLU:HG3	6	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,614)	1:49:A:ILE:HG21	1:55:A:PRO:HG2	2	0.35
(1,614)	1:49:A:ILE:HG21	1:55:A:PRO:HG3	2	0.35
(1,614)	1:49:A:ILE:HG22	1:55:A:PRO:HG2	2	0.35
(1,614)	1:49:A:ILE:HG22	1:55:A:PRO:HG3	2	0.35
(1,614)	1:49:A:ILE:HG23	1:55:A:PRO:HG2	2	0.35
(1,614)	1:49:A:ILE:HG23	1:55:A:PRO:HG3	2	0.35
(1,614)	1:49:A:ILE:HG21	1:55:A:PRO:HG2	11	0.35
(1,614)	1:49:A:ILE:HG21	1:55:A:PRO:HG3	11	0.35
(1,614)	1:49:A:ILE:HG22	1:55:A:PRO:HG2	11	0.35
(1,614)	1:49:A:ILE:HG22	1:55:A:PRO:HG3	11	0.35
(1,614)	1:49:A:ILE:HG23	1:55:A:PRO:HG2	11	0.35
(1,614)	1:49:A:ILE:HG23	1:55:A:PRO:HG3	11	0.35
(1,612)	1:41:A:GLN:HB2	1:42:A:LEU:H	8	0.35
(1,612)	1:41:A:GLN:HB3	1:42:A:LEU:H	8	0.35
(1,612)	1:41:A:GLN:HB2	1:42:A:LEU:H	12	0.35
(1,612)	1:41:A:GLN:HB3	1:42:A:LEU:H	12	0.35
(1,608)	1:57:A:ALA:HA	1:69:A:LEU:HD11	16	0.35
(1,608)	1:57:A:ALA:HA	1:69:A:LEU:HD12	16	0.35
(1,608)	1:57:A:ALA:HA	1:69:A:LEU:HD13	16	0.35
(1,593)	1:79:A:GLN:HG3	1:111:A:ALA:HA	15	0.35
(1,531)	1:111:A:ALA:HB1	1:114:A:LEU:HB2	9	0.35
(1,531)	1:111:A:ALA:HB1	1:114:A:LEU:HB3	9	0.35
(1,531)	1:111:A:ALA:HB2	1:114:A:LEU:HB2	9	0.35
(1,531)	1:111:A:ALA:HB2	1:114:A:LEU:HB3	9	0.35
(1,531)	1:111:A:ALA:HB3	1:114:A:LEU:HB2	9	0.35
(1,531)	1:111:A:ALA:HB3	1:114:A:LEU:HB3	9	0.35
(1,455)	1:61:A:LEU:HD21	1:63:A:ARG:H	9	0.35
(1,455)	1:61:A:LEU:HD22	1:63:A:ARG:H	9	0.35
(1,455)	1:61:A:LEU:HD23	1:63:A:ARG:H	9	0.35
(1,455)	1:61:A:LEU:HD21	1:63:A:ARG:H	16	0.35
(1,455)	1:61:A:LEU:HD22	1:63:A:ARG:H	16	0.35
(1,455)	1:61:A:LEU:HD23	1:63:A:ARG:H	16	0.35
(1,404)	1:50:A:ALA:H	1:51:A:GLU:HB2	5	0.35
(1,404)	1:50:A:ALA:H	1:51:A:GLU:HB3	5	0.35
(1,394)	1:39:A:ARG:HA	1:41:A:GLN:HG3	7	0.35
(1,357)	1:61:A:LEU:HD11	1:64:A:LYS:H	19	0.35
(1,357)	1:61:A:LEU:HD12	1:64:A:LYS:H	19	0.35
(1,357)	1:61:A:LEU:HD13	1:64:A:LYS:H	19	0.35
(1,311)	1:98:A:ALA:H	1:152:A:GLU:HB2	17	0.35
(1,311)	1:98:A:ALA:H	1:152:A:GLU:HB3	17	0.35
(1,257)	1:104:A:THR:H	1:106:A:ALA:H	19	0.35
(1,251)	1:88:A:LEU:HG	1:150:A:TRP:H	16	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,247)	1:74:A:ASN:H	1:75:A:GLU:HG2	12	0.35
(1,247)	1:74:A:ASN:H	1:75:A:GLU:HG3	12	0.35
(1,234)	1:66:A:THR:HB	1:87:A:PHE:HB2	16	0.35
(1,194)	1:64:A:LYS:HE2	1:69:A:LEU:HD21	18	0.35
(1,194)	1:64:A:LYS:HE2	1:69:A:LEU:HD22	18	0.35
(1,194)	1:64:A:LYS:HE2	1:69:A:LEU:HD23	18	0.35
(1,194)	1:64:A:LYS:HE3	1:69:A:LEU:HD21	18	0.35
(1,194)	1:64:A:LYS:HE3	1:69:A:LEU:HD22	18	0.35
(1,194)	1:64:A:LYS:HE3	1:69:A:LEU:HD23	18	0.35
(1,160)	1:97:A:HIS:HB3	1:150:A:TRP:HZ3	2	0.35
(1,125)	1:94:A:ARG:HH21	1:104:A:THR:HB	13	0.35
(1,125)	1:94:A:ARG:HH22	1:104:A:THR:HB	13	0.35
(1,121)	1:41:A:GLN:HE21	1:42:A:LEU:HB2	13	0.35
(1,112)	1:88:A:LEU:HB2	1:150:A:TRP:HB3	19	0.35
(1,112)	1:88:A:LEU:HB3	1:150:A:TRP:HB3	19	0.35
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB1	3	0.35
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB2	3	0.35
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB3	3	0.35
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB1	3	0.35
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB2	3	0.35
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB3	3	0.35
(1,107)	1:56:A:LEU:HD11	1:58:A:ALA:H	7	0.35
(1,107)	1:56:A:LEU:HD12	1:58:A:ALA:H	7	0.35
(1,107)	1:56:A:LEU:HD13	1:58:A:ALA:H	7	0.35
(1,107)	1:56:A:LEU:HD21	1:58:A:ALA:H	7	0.35
(1,107)	1:56:A:LEU:HD22	1:58:A:ALA:H	7	0.35
(1,107)	1:56:A:LEU:HD23	1:58:A:ALA:H	7	0.35
(1,104)	1:70:A:ASN:HD22	1:71:A:ARG:HD2	14	0.35
(1,104)	1:70:A:ASN:HD22	1:71:A:ARG:HD3	14	0.35
(1,97)	1:93:A:GLU:HB2	1:124:A:HIS:H	5	0.35
(1,97)	1:93:A:GLU:HB3	1:124:A:HIS:H	5	0.35
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG21	8	0.35
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG22	8	0.35
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG23	8	0.35
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG21	19	0.35
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG22	19	0.35
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG23	19	0.35
(1,83)	1:61:A:LEU:H	1:65:A:ASP:HB2	3	0.35
(1,83)	1:61:A:LEU:H	1:65:A:ASP:HB2	5	0.35
(1,77)	1:88:A:LEU:HD11	1:124:A:HIS:H	8	0.35
(1,77)	1:88:A:LEU:HD12	1:124:A:HIS:H	8	0.35
(1,77)	1:88:A:LEU:HD13	1:124:A:HIS:H	8	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,70)	1:45:A:ARG:HD2	1:47:A:GLN:H	15	0.35
(1,70)	1:45:A:ARG:HD3	1:47:A:GLN:H	15	0.35
(1,53)	1:87:A:PHE:HA	1:150:A:TRP:HA	8	0.35
(1,47)	1:70:A:ASN:H	1:71:A:ARG:HE	14	0.35
(1,40)	1:74:A:ASN:HA	1:98:A:ALA:HA	14	0.35
(1,40)	1:74:A:ASN:HA	1:98:A:ALA:HA	20	0.35
(1,24)	1:69:A:LEU:HB2	1:70:A:ASN:HB3	3	0.35
(1,24)	1:69:A:LEU:HB3	1:70:A:ASN:HB3	3	0.35
(1,24)	1:69:A:LEU:HB2	1:70:A:ASN:HB3	19	0.35
(1,24)	1:69:A:LEU:HB3	1:70:A:ASN:HB3	19	0.35
(1,7)	1:97:A:HIS:HA	1:150:A:TRP:HZ3	6	0.35
(1,7)	1:97:A:HIS:HA	1:150:A:TRP:HZ3	8	0.35
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD11	7	0.34
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD12	7	0.34
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD13	7	0.34
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD21	7	0.34
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD22	7	0.34
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD23	7	0.34
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG11	1	0.34
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG12	1	0.34
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG13	1	0.34
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG21	1	0.34
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG22	1	0.34
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG23	1	0.34
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG11	1	0.34
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG12	1	0.34
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG13	1	0.34
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG21	1	0.34
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG22	1	0.34
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG23	1	0.34
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG11	1	0.34
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG12	1	0.34
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG13	1	0.34
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG21	1	0.34
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG22	1	0.34
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG23	1	0.34
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG11	8	0.34
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG12	8	0.34
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG13	8	0.34
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG21	8	0.34
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG22	8	0.34
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG23	8	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG11	8	0.34
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG12	8	0.34
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG13	8	0.34
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG21	8	0.34
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG22	8	0.34
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG23	8	0.34
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG11	8	0.34
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG12	8	0.34
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG13	8	0.34
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG21	8	0.34
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG22	8	0.34
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG23	8	0.34
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG11	17	0.34
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG12	17	0.34
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG13	17	0.34
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG21	17	0.34
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG22	17	0.34
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG23	17	0.34
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG11	17	0.34
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG12	17	0.34
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG13	17	0.34
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG21	17	0.34
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG22	17	0.34
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG23	17	0.34
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG11	17	0.34
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG12	17	0.34
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG13	17	0.34
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG21	17	0.34
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG22	17	0.34
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG23	17	0.34
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG11	12	0.34
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG12	12	0.34
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG13	12	0.34
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG21	12	0.34
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG22	12	0.34
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG23	12	0.34
(1,1058)	1:89:A:ASP:H	1:149:A:GLY:HA2	11	0.34
(1,1018)	1:70:A:ASN:HD22	1:71:A:ARG:HA	17	0.34
(1,998)	1:61:A:LEU:HA	1:65:A:ASP:H	18	0.34
(1,994)	1:45:A:ARG:HG2	1:60:A:ALA:H	9	0.34
(1,994)	1:45:A:ARG:HG3	1:60:A:ALA:H	9	0.34
(1,983)	1:80:A:PRO:HA	1:164:A:GLY:HA2	3	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,983)	1:80:A:PRO:HA	1:164:A:GLY:HA3	3	0.34
(1,968)	1:73:A:ALA:HB1	1:75:A:GLU:HB2	7	0.34
(1,968)	1:73:A:ALA:HB1	1:75:A:GLU:HB3	7	0.34
(1,968)	1:73:A:ALA:HB2	1:75:A:GLU:HB2	7	0.34
(1,968)	1:73:A:ALA:HB2	1:75:A:GLU:HB3	7	0.34
(1,968)	1:73:A:ALA:HB3	1:75:A:GLU:HB2	7	0.34
(1,968)	1:73:A:ALA:HB3	1:75:A:GLU:HB3	7	0.34
(1,968)	1:73:A:ALA:HB1	1:75:A:GLU:HB2	15	0.34
(1,968)	1:73:A:ALA:HB1	1:75:A:GLU:HB3	15	0.34
(1,968)	1:73:A:ALA:HB2	1:75:A:GLU:HB2	15	0.34
(1,968)	1:73:A:ALA:HB2	1:75:A:GLU:HB3	15	0.34
(1,968)	1:73:A:ALA:HB3	1:75:A:GLU:HB2	15	0.34
(1,968)	1:73:A:ALA:HB3	1:75:A:GLU:HB3	15	0.34
(1,949)	1:102:A:MET:HB2	1:104:A:THR:H	19	0.34
(1,949)	1:102:A:MET:HB3	1:104:A:THR:H	19	0.34
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB1	19	0.34
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB2	19	0.34
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB3	19	0.34
(1,742)	1:88:A:LEU:HB2	1:93:A:GLU:HG2	15	0.34
(1,742)	1:88:A:LEU:HB2	1:93:A:GLU:HG3	15	0.34
(1,742)	1:88:A:LEU:HB3	1:93:A:GLU:HG2	15	0.34
(1,742)	1:88:A:LEU:HB3	1:93:A:GLU:HG3	15	0.34
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD11	16	0.34
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD12	16	0.34
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD13	16	0.34
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD21	16	0.34
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD22	16	0.34
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD23	16	0.34
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD11	16	0.34
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD12	16	0.34
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD13	16	0.34
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD21	16	0.34
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD22	16	0.34
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD23	16	0.34
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD11	16	0.34
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD12	16	0.34
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD13	16	0.34
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD21	16	0.34
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD22	16	0.34
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD23	16	0.34
(1,695)	1:42:A:LEU:HA	1:56:A:LEU:HB2	17	0.34
(1,695)	1:42:A:LEU:HA	1:56:A:LEU:HB3	17	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,660)	1:57:A:ALA:HB1	1:69:A:LEU:HD21	11	0.34
(1,660)	1:57:A:ALA:HB1	1:69:A:LEU:HD22	11	0.34
(1,660)	1:57:A:ALA:HB1	1:69:A:LEU:HD23	11	0.34
(1,660)	1:57:A:ALA:HB2	1:69:A:LEU:HD21	11	0.34
(1,660)	1:57:A:ALA:HB2	1:69:A:LEU:HD22	11	0.34
(1,660)	1:57:A:ALA:HB2	1:69:A:LEU:HD23	11	0.34
(1,660)	1:57:A:ALA:HB3	1:69:A:LEU:HD21	11	0.34
(1,660)	1:57:A:ALA:HB3	1:69:A:LEU:HD22	11	0.34
(1,660)	1:57:A:ALA:HB3	1:69:A:LEU:HD23	11	0.34
(1,612)	1:41:A:GLN:HB2	1:42:A:LEU:H	4	0.34
(1,612)	1:41:A:GLN:HB3	1:42:A:LEU:H	4	0.34
(1,612)	1:41:A:GLN:HB2	1:42:A:LEU:H	11	0.34
(1,612)	1:41:A:GLN:HB3	1:42:A:LEU:H	11	0.34
(1,612)	1:41:A:GLN:HB2	1:42:A:LEU:H	14	0.34
(1,612)	1:41:A:GLN:HB3	1:42:A:LEU:H	14	0.34
(1,539)	1:70:A:ASN:HD22	1:74:A:ASN:HB2	3	0.34
(1,531)	1:111:A:ALA:HB1	1:114:A:LEU:HB2	1	0.34
(1,531)	1:111:A:ALA:HB1	1:114:A:LEU:HB3	1	0.34
(1,531)	1:111:A:ALA:HB2	1:114:A:LEU:HB2	1	0.34
(1,531)	1:111:A:ALA:HB2	1:114:A:LEU:HB3	1	0.34
(1,531)	1:111:A:ALA:HB3	1:114:A:LEU:HB2	1	0.34
(1,531)	1:111:A:ALA:HB3	1:114:A:LEU:HB3	1	0.34
(1,461)	1:43:A:ILE:HD11	1:47:A:GLN:H	14	0.34
(1,461)	1:43:A:ILE:HD12	1:47:A:GLN:H	14	0.34
(1,461)	1:43:A:ILE:HD13	1:47:A:GLN:H	14	0.34
(1,455)	1:61:A:LEU:HD21	1:63:A:ARG:H	6	0.34
(1,455)	1:61:A:LEU:HD22	1:63:A:ARG:H	6	0.34
(1,455)	1:61:A:LEU:HD23	1:63:A:ARG:H	6	0.34
(1,455)	1:61:A:LEU:HD21	1:63:A:ARG:H	15	0.34
(1,455)	1:61:A:LEU:HD22	1:63:A:ARG:H	15	0.34
(1,455)	1:61:A:LEU:HD23	1:63:A:ARG:H	15	0.34
(1,455)	1:61:A:LEU:HD21	1:63:A:ARG:H	17	0.34
(1,455)	1:61:A:LEU:HD22	1:63:A:ARG:H	17	0.34
(1,455)	1:61:A:LEU:HD23	1:63:A:ARG:H	17	0.34
(1,442)	1:141:A:GLU:HB2	1:145:A:GLU:H	2	0.34
(1,442)	1:141:A:GLU:HB3	1:145:A:GLU:H	2	0.34
(1,442)	1:141:A:GLU:HB2	1:145:A:GLU:H	4	0.34
(1,442)	1:141:A:GLU:HB3	1:145:A:GLU:H	4	0.34
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG21	16	0.34
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG22	16	0.34
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG23	16	0.34
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG21	16	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG22	16	0.34
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG23	16	0.34
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD21	1	0.34
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD22	1	0.34
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD23	1	0.34
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD21	1	0.34
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD22	1	0.34
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD23	1	0.34
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD21	1	0.34
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD22	1	0.34
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD23	1	0.34
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD21	3	0.34
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD22	3	0.34
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD23	3	0.34
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD21	3	0.34
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD22	3	0.34
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD23	3	0.34
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD21	3	0.34
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD22	3	0.34
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD23	3	0.34
(1,400)	1:94:A:ARG:HA	1:123:A:THR:HA	18	0.34
(1,379)	1:73:A:ALA:H	1:75:A:GLU:HG2	9	0.34
(1,379)	1:73:A:ALA:H	1:75:A:GLU:HG3	9	0.34
(1,335)	1:76:A:ALA:HB1	1:78:A:ASP:H	14	0.34
(1,335)	1:76:A:ALA:HB2	1:78:A:ASP:H	14	0.34
(1,335)	1:76:A:ALA:HB3	1:78:A:ASP:H	14	0.34
(1,328)	1:47:A:GLN:HE21	1:52:A:GLN:H	10	0.34
(1,311)	1:98:A:ALA:H	1:152:A:GLU:HB2	13	0.34
(1,311)	1:98:A:ALA:H	1:152:A:GLU:HB3	13	0.34
(1,311)	1:98:A:ALA:H	1:152:A:GLU:HB2	15	0.34
(1,311)	1:98:A:ALA:H	1:152:A:GLU:HB3	15	0.34
(1,270)	1:82:A:VAL:H	1:155:A:LEU:HB2	17	0.34
(1,270)	1:82:A:VAL:H	1:155:A:LEU:HB3	17	0.34
(1,267)	1:43:A:ILE:HG21	1:52:A:GLN:HB2	1	0.34
(1,267)	1:43:A:ILE:HG21	1:52:A:GLN:HB3	1	0.34
(1,267)	1:43:A:ILE:HG22	1:52:A:GLN:HB2	1	0.34
(1,267)	1:43:A:ILE:HG22	1:52:A:GLN:HB3	1	0.34
(1,267)	1:43:A:ILE:HG23	1:52:A:GLN:HB2	1	0.34
(1,267)	1:43:A:ILE:HG23	1:52:A:GLN:HB3	1	0.34
(1,251)	1:88:A:LEU:HG	1:150:A:TRP:H	13	0.34
(1,249)	1:139:A:ALA:H	1:147:A:VAL:HG21	3	0.34
(1,249)	1:139:A:ALA:H	1:147:A:VAL:HG22	3	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,249)	1:139:A:ALA:H	1:147:A:VAL:HG23	3	0.34
(1,247)	1:74:A:ASN:H	1:75:A:GLU:HG2	14	0.34
(1,247)	1:74:A:ASN:H	1:75:A:GLU:HG3	14	0.34
(1,216)	1:60:A:ALA:H	1:63:A:ARG:HD2	20	0.34
(1,216)	1:60:A:ALA:H	1:63:A:ARG:HD3	20	0.34
(1,208)	1:97:A:HIS:HB2	1:131:A:GLY:H	14	0.34
(1,194)	1:64:A:LYS:HE2	1:69:A:LEU:HD21	4	0.34
(1,194)	1:64:A:LYS:HE2	1:69:A:LEU:HD22	4	0.34
(1,194)	1:64:A:LYS:HE2	1:69:A:LEU:HD23	4	0.34
(1,194)	1:64:A:LYS:HE3	1:69:A:LEU:HD21	4	0.34
(1,194)	1:64:A:LYS:HE3	1:69:A:LEU:HD22	4	0.34
(1,194)	1:64:A:LYS:HE3	1:69:A:LEU:HD23	4	0.34
(1,154)	1:79:A:GLN:HE21	1:111:A:ALA:HA	2	0.34
(1,133)	1:65:A:ASP:HA	1:147:A:VAL:HG21	4	0.34
(1,133)	1:65:A:ASP:HA	1:147:A:VAL:HG22	4	0.34
(1,133)	1:65:A:ASP:HA	1:147:A:VAL:HG23	4	0.34
(1,125)	1:94:A:ARG:HH21	1:104:A:THR:HB	19	0.34
(1,125)	1:94:A:ARG:HH22	1:104:A:THR:HB	19	0.34
(1,121)	1:41:A:GLN:HE21	1:42:A:LEU:HB2	18	0.34
(1,119)	1:87:A:PHE:HD1	1:98:A:ALA:H	10	0.34
(1,119)	1:87:A:PHE:HD2	1:98:A:ALA:H	10	0.34
(1,112)	1:88:A:LEU:HB2	1:150:A:TRP:HB3	15	0.34
(1,112)	1:88:A:LEU:HB3	1:150:A:TRP:HB3	15	0.34
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB1	12	0.34
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB2	12	0.34
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB3	12	0.34
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB1	12	0.34
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB2	12	0.34
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB3	12	0.34
(1,107)	1:56:A:LEU:HD11	1:58:A:ALA:H	1	0.34
(1,107)	1:56:A:LEU:HD12	1:58:A:ALA:H	1	0.34
(1,107)	1:56:A:LEU:HD13	1:58:A:ALA:H	1	0.34
(1,107)	1:56:A:LEU:HD21	1:58:A:ALA:H	1	0.34
(1,107)	1:56:A:LEU:HD22	1:58:A:ALA:H	1	0.34
(1,107)	1:56:A:LEU:HD23	1:58:A:ALA:H	1	0.34
(1,102)	1:51:A:GLU:H	1:52:A:GLN:HE21	7	0.34
(1,102)	1:51:A:GLU:H	1:52:A:GLN:HE21	14	0.34
(1,83)	1:61:A:LEU:H	1:65:A:ASP:HB2	16	0.34
(1,83)	1:61:A:LEU:H	1:65:A:ASP:HB2	19	0.34
(1,53)	1:87:A:PHE:HA	1:150:A:TRP:HA	11	0.34
(1,40)	1:74:A:ASN:HA	1:98:A:ALA:HA	7	0.34
(1,28)	1:146:A:ARG:HE	1:147:A:VAL:HG21	11	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,28)	1:146:A:ARG:HE	1:147:A:VAL:HG22	11	0.34
(1,28)	1:146:A:ARG:HE	1:147:A:VAL:HG23	11	0.34
(1,24)	1:69:A:LEU:HB2	1:70:A:ASN:HB3	20	0.34
(1,24)	1:69:A:LEU:HB3	1:70:A:ASN:HB3	20	0.34
(1,19)	1:87:A:PHE:HA	1:96:A:ALA:H	18	0.34
(1,1184)	1:135:A:SER:HB2	1:136:A:LEU:H	8	0.33
(1,1184)	1:135:A:SER:HB3	1:136:A:LEU:H	8	0.33
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD11	9	0.33
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD12	9	0.33
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD13	9	0.33
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD21	9	0.33
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD22	9	0.33
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD23	9	0.33
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD11	11	0.33
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD12	11	0.33
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD13	11	0.33
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD21	11	0.33
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD22	11	0.33
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD23	11	0.33
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD11	11	0.33
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD12	11	0.33
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD13	11	0.33
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD21	11	0.33
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD22	11	0.33
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD23	11	0.33
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD11	11	0.33
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD12	11	0.33
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD13	11	0.33
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD21	11	0.33
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD22	11	0.33
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD23	11	0.33
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD11	11	0.33
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD12	11	0.33
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD13	11	0.33
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD21	11	0.33
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD22	11	0.33
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD23	11	0.33
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD11	11	0.33
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD12	11	0.33
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD13	11	0.33
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD21	11	0.33
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD22	11	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD23	11	0.33
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD11	11	0.33
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD12	11	0.33
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD13	11	0.33
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD21	11	0.33
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD22	11	0.33
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD23	11	0.33
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD11	18	0.33
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD12	18	0.33
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD13	18	0.33
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD21	18	0.33
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD22	18	0.33
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD23	18	0.33
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG11	11	0.33
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG12	11	0.33
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG13	11	0.33
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG21	11	0.33
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG22	11	0.33
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG23	11	0.33
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG11	11	0.33
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG12	11	0.33
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG13	11	0.33
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG21	11	0.33
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG22	11	0.33
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG23	11	0.33
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG11	11	0.33
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG12	11	0.33
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG13	11	0.33
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG21	11	0.33
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG22	11	0.33
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG23	11	0.33
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG11	14	0.33
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG12	14	0.33
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG13	14	0.33
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG21	14	0.33
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG22	14	0.33
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG23	14	0.33
(1,1009)	1:80:A:PRO:HB2	1:164:A:GLY:HA2	19	0.33
(1,1009)	1:80:A:PRO:HB2	1:164:A:GLY:HA3	19	0.33
(1,1009)	1:80:A:PRO:HB3	1:164:A:GLY:HA2	19	0.33
(1,1009)	1:80:A:PRO:HB3	1:164:A:GLY:HA3	19	0.33
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB1	20	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB2	20	0.33
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB3	20	0.33
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB1	20	0.33
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB2	20	0.33
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB3	20	0.33
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB1	20	0.33
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB2	20	0.33
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB3	20	0.33
(1,998)	1:61:A:LEU:HA	1:65:A:ASP:H	4	0.33
(1,996)	1:138:A:GLY:H	1:140:A:THR:HG21	20	0.33
(1,996)	1:138:A:GLY:H	1:140:A:THR:HG22	20	0.33
(1,996)	1:138:A:GLY:H	1:140:A:THR:HG23	20	0.33
(1,983)	1:80:A:PRO:HA	1:164:A:GLY:HA2	11	0.33
(1,983)	1:80:A:PRO:HA	1:164:A:GLY:HA3	11	0.33
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG21	4	0.33
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG22	4	0.33
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG23	4	0.33
(1,952)	1:89:A:ASP:HA	1:95:A:LEU:HG	12	0.33
(1,822)	1:75:A:GLU:H	1:77:A:LEU:HB2	2	0.33
(1,822)	1:75:A:GLU:H	1:77:A:LEU:HB3	2	0.33
(1,805)	1:41:A:GLN:HE21	1:42:A:LEU:HG	18	0.33
(1,742)	1:88:A:LEU:HB2	1:93:A:GLU:HG2	3	0.33
(1,742)	1:88:A:LEU:HB2	1:93:A:GLU:HG3	3	0.33
(1,742)	1:88:A:LEU:HB3	1:93:A:GLU:HG2	3	0.33
(1,742)	1:88:A:LEU:HB3	1:93:A:GLU:HG3	3	0.33
(1,707)	1:74:A:ASN:HA	1:98:A:ALA:HB1	8	0.33
(1,707)	1:74:A:ASN:HA	1:98:A:ALA:HB2	8	0.33
(1,707)	1:74:A:ASN:HA	1:98:A:ALA:HB3	8	0.33
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG21	19	0.33
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG22	19	0.33
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG23	19	0.33
(1,612)	1:41:A:GLN:HB2	1:42:A:LEU:H	2	0.33
(1,612)	1:41:A:GLN:HB3	1:42:A:LEU:H	2	0.33
(1,612)	1:41:A:GLN:HB2	1:42:A:LEU:H	7	0.33
(1,612)	1:41:A:GLN:HB3	1:42:A:LEU:H	7	0.33
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD21	16	0.33
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD22	16	0.33
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD23	16	0.33
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD21	16	0.33
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD22	16	0.33
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD23	16	0.33
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD21	16	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD22	16	0.33
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD23	16	0.33
(1,548)	1:67:A:ALA:HB1	1:68:A:VAL:HA	3	0.33
(1,548)	1:67:A:ALA:HB2	1:68:A:VAL:HA	3	0.33
(1,548)	1:67:A:ALA:HB3	1:68:A:VAL:HA	3	0.33
(1,531)	1:111:A:ALA:HB1	1:114:A:LEU:HB2	20	0.33
(1,531)	1:111:A:ALA:HB1	1:114:A:LEU:HB3	20	0.33
(1,531)	1:111:A:ALA:HB2	1:114:A:LEU:HB2	20	0.33
(1,531)	1:111:A:ALA:HB2	1:114:A:LEU:HB3	20	0.33
(1,531)	1:111:A:ALA:HB3	1:114:A:LEU:HB2	20	0.33
(1,531)	1:111:A:ALA:HB3	1:114:A:LEU:HB3	20	0.33
(1,521)	1:98:A:ALA:HA	1:103:A:LEU:H	19	0.33
(1,500)	1:43:A:ILE:HG21	1:47:A:GLN:H	9	0.33
(1,500)	1:43:A:ILE:HG22	1:47:A:GLN:H	9	0.33
(1,500)	1:43:A:ILE:HG23	1:47:A:GLN:H	9	0.33
(1,500)	1:43:A:ILE:HG21	1:47:A:GLN:H	19	0.33
(1,500)	1:43:A:ILE:HG22	1:47:A:GLN:H	19	0.33
(1,500)	1:43:A:ILE:HG23	1:47:A:GLN:H	19	0.33
(1,442)	1:141:A:GLU:HB2	1:145:A:GLU:H	10	0.33
(1,442)	1:141:A:GLU:HB3	1:145:A:GLU:H	10	0.33
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG21	10	0.33
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG22	10	0.33
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG23	10	0.33
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG21	10	0.33
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG22	10	0.33
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG23	10	0.33
(1,406)	1:160:A:THR:HB	1:161:A:LEU:HB2	3	0.33
(1,406)	1:160:A:THR:HB	1:161:A:LEU:HB3	3	0.33
(1,404)	1:50:A:ALA:H	1:51:A:GLU:HB2	3	0.33
(1,404)	1:50:A:ALA:H	1:51:A:GLU:HB3	3	0.33
(1,394)	1:39:A:ARG:HA	1:41:A:GLN:HG3	2	0.33
(1,332)	1:47:A:GLN:H	1:53:A:LEU:H	7	0.33
(1,322)	1:60:A:ALA:H	1:65:A:ASP:HB2	3	0.33
(1,322)	1:60:A:ALA:H	1:65:A:ASP:HB2	14	0.33
(1,319)	1:66:A:THR:HG21	1:71:A:ARG:H	1	0.33
(1,319)	1:66:A:THR:HG22	1:71:A:ARG:H	1	0.33
(1,319)	1:66:A:THR:HG23	1:71:A:ARG:H	1	0.33
(1,316)	1:41:A:GLN:HE21	1:42:A:LEU:H	19	0.33
(1,311)	1:98:A:ALA:H	1:152:A:GLU:HB2	1	0.33
(1,311)	1:98:A:ALA:H	1:152:A:GLU:HB3	1	0.33
(1,290)	1:106:A:ALA:HA	1:108:A:ALA:H	20	0.33
(1,281)	1:115:A:SER:HA	1:116:A:MET:HA	2	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,248)	1:61:A:LEU:HD21	1:64:A:LYS:H	10	0.33
(1,248)	1:61:A:LEU:HD22	1:64:A:LYS:H	10	0.33
(1,248)	1:61:A:LEU:HD23	1:64:A:LYS:H	10	0.33
(1,232)	1:71:A:ARG:HB2	1:73:A:ALA:H	15	0.33
(1,232)	1:71:A:ARG:HB3	1:73:A:ALA:H	15	0.33
(1,232)	1:71:A:ARG:HB2	1:73:A:ALA:H	19	0.33
(1,232)	1:71:A:ARG:HB3	1:73:A:ALA:H	19	0.33
(1,231)	1:95:A:LEU:HD21	1:96:A:ALA:H	11	0.33
(1,231)	1:95:A:LEU:HD22	1:96:A:ALA:H	11	0.33
(1,231)	1:95:A:LEU:HD23	1:96:A:ALA:H	11	0.33
(1,231)	1:95:A:LEU:HD21	1:96:A:ALA:H	14	0.33
(1,231)	1:95:A:LEU:HD22	1:96:A:ALA:H	14	0.33
(1,231)	1:95:A:LEU:HD23	1:96:A:ALA:H	14	0.33
(1,158)	1:97:A:HIS:HB3	1:131:A:GLY:H	3	0.33
(1,154)	1:79:A:GLN:HE21	1:111:A:ALA:HA	4	0.33
(1,141)	1:97:A:HIS:HB3	1:103:A:LEU:H	4	0.33
(1,121)	1:41:A:GLN:HE21	1:42:A:LEU:HB2	7	0.33
(1,112)	1:88:A:LEU:HB2	1:150:A:TRP:HB3	2	0.33
(1,112)	1:88:A:LEU:HB3	1:150:A:TRP:HB3	2	0.33
(1,85)	1:76:A:ALA:HB1	1:79:A:GLN:HE21	19	0.33
(1,85)	1:76:A:ALA:HB2	1:79:A:GLN:HE21	19	0.33
(1,85)	1:76:A:ALA:HB3	1:79:A:GLN:HE21	19	0.33
(1,48)	1:65:A:ASP:HB3	1:68:A:VAL:HA	8	0.33
(1,48)	1:65:A:ASP:HB3	1:68:A:VAL:HA	9	0.33
(1,48)	1:65:A:ASP:HB3	1:68:A:VAL:HA	13	0.33
(1,48)	1:65:A:ASP:HB3	1:68:A:VAL:HA	14	0.33
(1,27)	1:91:A:ARG:H	1:149:A:GLY:H	1	0.33
(1,19)	1:87:A:PHE:HA	1:96:A:ALA:H	4	0.33
(1,19)	1:87:A:PHE:HA	1:96:A:ALA:H	5	0.33
(1,19)	1:87:A:PHE:HA	1:96:A:ALA:H	6	0.33
(1,19)	1:87:A:PHE:HA	1:96:A:ALA:H	7	0.33
(1,19)	1:87:A:PHE:HA	1:96:A:ALA:H	19	0.33
(1,17)	1:70:A:ASN:HD21	1:74:A:ASN:HB2	2	0.33
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG21	1	0.32
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG22	1	0.32
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG23	1	0.32
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG21	1	0.32
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG22	1	0.32
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG23	1	0.32
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG21	15	0.32
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG22	15	0.32
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG23	15	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG21	15	0.32
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG22	15	0.32
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG23	15	0.32
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG11	19	0.32
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG12	19	0.32
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG13	19	0.32
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG21	19	0.32
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG22	19	0.32
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG23	19	0.32
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG11	3	0.32
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG12	3	0.32
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG13	3	0.32
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG21	3	0.32
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG22	3	0.32
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG23	3	0.32
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG11	16	0.32
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG12	16	0.32
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG13	16	0.32
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG21	16	0.32
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG22	16	0.32
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG23	16	0.32
(1,1009)	1:80:A:PRO:HB2	1:164:A:GLY:HA2	7	0.32
(1,1009)	1:80:A:PRO:HB2	1:164:A:GLY:HA3	7	0.32
(1,1009)	1:80:A:PRO:HB3	1:164:A:GLY:HA2	7	0.32
(1,1009)	1:80:A:PRO:HB3	1:164:A:GLY:HA3	7	0.32
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB1	9	0.32
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB2	9	0.32
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB3	9	0.32
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB1	9	0.32
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB2	9	0.32
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB3	9	0.32
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB1	9	0.32
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB2	9	0.32
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB3	9	0.32
(1,998)	1:61:A:LEU:HA	1:65:A:ASP:H	17	0.32
(1,994)	1:45:A:ARG:HG2	1:60:A:ALA:H	17	0.32
(1,994)	1:45:A:ARG:HG3	1:60:A:ALA:H	17	0.32
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD11	1	0.32
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD12	1	0.32
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD13	1	0.32
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD21	1	0.32
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD22	1	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD23	1	0.32
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD11	1	0.32
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD12	1	0.32
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD13	1	0.32
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD21	1	0.32
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD22	1	0.32
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD23	1	0.32
(1,968)	1:73:A:ALA:HB1	1:75:A:GLU:HB2	2	0.32
(1,968)	1:73:A:ALA:HB1	1:75:A:GLU:HB3	2	0.32
(1,968)	1:73:A:ALA:HB2	1:75:A:GLU:HB2	2	0.32
(1,968)	1:73:A:ALA:HB2	1:75:A:GLU:HB3	2	0.32
(1,968)	1:73:A:ALA:HB3	1:75:A:GLU:HB2	2	0.32
(1,968)	1:73:A:ALA:HB3	1:75:A:GLU:HB3	2	0.32
(1,927)	1:94:A:ARG:HG2	1:131:A:GLY:H	7	0.32
(1,927)	1:94:A:ARG:HG3	1:131:A:GLY:H	7	0.32
(1,849)	1:89:A:ASP:H	1:95:A:LEU:HD21	4	0.32
(1,849)	1:89:A:ASP:H	1:95:A:LEU:HD22	4	0.32
(1,849)	1:89:A:ASP:H	1:95:A:LEU:HD23	4	0.32
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB1	5	0.32
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB2	5	0.32
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB3	5	0.32
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB1	17	0.32
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB2	17	0.32
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB3	17	0.32
(1,811)	1:74:A:ASN:H	1:77:A:LEU:HB2	3	0.32
(1,811)	1:74:A:ASN:H	1:77:A:LEU:HB3	3	0.32
(1,811)	1:74:A:ASN:H	1:77:A:LEU:HB2	11	0.32
(1,811)	1:74:A:ASN:H	1:77:A:LEU:HB3	11	0.32
(1,805)	1:41:A:GLN:HE21	1:42:A:LEU:HG	7	0.32
(1,803)	1:89:A:ASP:H	1:95:A:LEU:HG	17	0.32
(1,790)	1:74:A:ASN:HD21	1:98:A:ALA:HB1	15	0.32
(1,790)	1:74:A:ASN:HD21	1:98:A:ALA:HB2	15	0.32
(1,790)	1:74:A:ASN:HD21	1:98:A:ALA:HB3	15	0.32
(1,752)	1:140:A:THR:HG21	1:141:A:GLU:H	18	0.32
(1,752)	1:140:A:THR:HG22	1:141:A:GLU:H	18	0.32
(1,752)	1:140:A:THR:HG23	1:141:A:GLU:H	18	0.32
(1,742)	1:88:A:LEU:HB2	1:93:A:GLU:HG2	13	0.32
(1,742)	1:88:A:LEU:HB2	1:93:A:GLU:HG3	13	0.32
(1,742)	1:88:A:LEU:HB3	1:93:A:GLU:HG2	13	0.32
(1,742)	1:88:A:LEU:HB3	1:93:A:GLU:HG3	13	0.32
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD11	16	0.32
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD12	16	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,685)	1:45:A:ARG:HB2	1:49:A:ILE:HD13	16	0.32
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD11	16	0.32
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD12	16	0.32
(1,685)	1:45:A:ARG:HB3	1:49:A:ILE:HD13	16	0.32
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG11	11	0.32
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG12	11	0.32
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG13	11	0.32
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG21	11	0.32
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG22	11	0.32
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG23	11	0.32
(1,612)	1:41:A:GLN:HB2	1:42:A:LEU:H	1	0.32
(1,612)	1:41:A:GLN:HB3	1:42:A:LEU:H	1	0.32
(1,612)	1:41:A:GLN:HB2	1:42:A:LEU:H	3	0.32
(1,612)	1:41:A:GLN:HB3	1:42:A:LEU:H	3	0.32
(1,612)	1:41:A:GLN:HB2	1:42:A:LEU:H	5	0.32
(1,612)	1:41:A:GLN:HB3	1:42:A:LEU:H	5	0.32
(1,612)	1:41:A:GLN:HB2	1:42:A:LEU:H	9	0.32
(1,612)	1:41:A:GLN:HB3	1:42:A:LEU:H	9	0.32
(1,612)	1:41:A:GLN:HB2	1:42:A:LEU:H	15	0.32
(1,612)	1:41:A:GLN:HB3	1:42:A:LEU:H	15	0.32
(1,612)	1:41:A:GLN:HB2	1:42:A:LEU:H	18	0.32
(1,612)	1:41:A:GLN:HB3	1:42:A:LEU:H	18	0.32
(1,548)	1:67:A:ALA:HB1	1:68:A:VAL:HA	16	0.32
(1,548)	1:67:A:ALA:HB2	1:68:A:VAL:HA	16	0.32
(1,548)	1:67:A:ALA:HB3	1:68:A:VAL:HA	16	0.32
(1,539)	1:70:A:ASN:HD22	1:74:A:ASN:HB2	16	0.32
(1,509)	1:43:A:ILE:HD11	1:53:A:LEU:H	11	0.32
(1,509)	1:43:A:ILE:HD12	1:53:A:LEU:H	11	0.32
(1,509)	1:43:A:ILE:HD13	1:53:A:LEU:H	11	0.32
(1,500)	1:43:A:ILE:HG21	1:47:A:GLN:H	1	0.32
(1,500)	1:43:A:ILE:HG22	1:47:A:GLN:H	1	0.32
(1,500)	1:43:A:ILE:HG23	1:47:A:GLN:H	1	0.32
(1,477)	1:135:A:SER:HB3	1:136:A:LEU:H	12	0.32
(1,470)	1:115:A:SER:H	1:116:A:MET:HB2	16	0.32
(1,470)	1:115:A:SER:H	1:116:A:MET:HB3	16	0.32
(1,432)	1:131:A:GLY:H	1:132:A:ARG:HG2	12	0.32
(1,432)	1:131:A:GLY:H	1:132:A:ARG:HG3	12	0.32
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD21	15	0.32
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD22	15	0.32
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD23	15	0.32
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD21	15	0.32
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD22	15	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD23	15	0.32
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD21	15	0.32
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD22	15	0.32
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD23	15	0.32
(1,400)	1:94:A:ARG:HA	1:123:A:THR:HA	6	0.32
(1,377)	1:66:A:THR:HG21	1:70:A:ASN:HB3	17	0.32
(1,377)	1:66:A:THR:HG22	1:70:A:ASN:HB3	17	0.32
(1,377)	1:66:A:THR:HG23	1:70:A:ASN:HB3	17	0.32
(1,335)	1:76:A:ALA:HB1	1:78:A:ASP:H	2	0.32
(1,335)	1:76:A:ALA:HB2	1:78:A:ASP:H	2	0.32
(1,335)	1:76:A:ALA:HB3	1:78:A:ASP:H	2	0.32
(1,335)	1:76:A:ALA:HB1	1:78:A:ASP:H	9	0.32
(1,335)	1:76:A:ALA:HB2	1:78:A:ASP:H	9	0.32
(1,335)	1:76:A:ALA:HB3	1:78:A:ASP:H	9	0.32
(1,306)	1:82:A:VAL:H	1:163:A:ARG:HH11	14	0.32
(1,306)	1:82:A:VAL:H	1:163:A:ARG:HH12	14	0.32
(1,270)	1:82:A:VAL:H	1:155:A:LEU:HB2	12	0.32
(1,270)	1:82:A:VAL:H	1:155:A:LEU:HB3	12	0.32
(1,263)	1:88:A:LEU:HB2	1:95:A:LEU:H	14	0.32
(1,263)	1:88:A:LEU:HB3	1:95:A:LEU:H	14	0.32
(1,251)	1:88:A:LEU:HG	1:150:A:TRP:H	1	0.32
(1,251)	1:88:A:LEU:HG	1:150:A:TRP:H	6	0.32
(1,247)	1:74:A:ASN:H	1:75:A:GLU:HG2	15	0.32
(1,247)	1:74:A:ASN:H	1:75:A:GLU:HG3	15	0.32
(1,232)	1:71:A:ARG:HB2	1:73:A:ALA:H	4	0.32
(1,232)	1:71:A:ARG:HB3	1:73:A:ALA:H	4	0.32
(1,232)	1:71:A:ARG:HB2	1:73:A:ALA:H	11	0.32
(1,232)	1:71:A:ARG:HB3	1:73:A:ALA:H	11	0.32
(1,231)	1:95:A:LEU:HD21	1:96:A:ALA:H	3	0.32
(1,231)	1:95:A:LEU:HD22	1:96:A:ALA:H	3	0.32
(1,231)	1:95:A:LEU:HD23	1:96:A:ALA:H	3	0.32
(1,166)	1:40:A:ALA:H	1:41:A:GLN:HG3	13	0.32
(1,160)	1:97:A:HIS:HB3	1:150:A:TRP:HZ3	13	0.32
(1,129)	1:70:A:ASN:HB2	1:71:A:ARG:HE	20	0.32
(1,121)	1:41:A:GLN:HE21	1:42:A:LEU:HB2	5	0.32
(1,112)	1:88:A:LEU:HB2	1:150:A:TRP:HB3	6	0.32
(1,112)	1:88:A:LEU:HB3	1:150:A:TRP:HB3	6	0.32
(1,110)	1:71:A:ARG:HD2	1:72:A:ILE:H	17	0.32
(1,110)	1:71:A:ARG:HD3	1:72:A:ILE:H	17	0.32
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB1	18	0.32
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB2	18	0.32
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB3	18	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB1	18	0.32
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB2	18	0.32
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB3	18	0.32
(1,107)	1:56:A:LEU:HD11	1:58:A:ALA:H	10	0.32
(1,107)	1:56:A:LEU:HD12	1:58:A:ALA:H	10	0.32
(1,107)	1:56:A:LEU:HD13	1:58:A:ALA:H	10	0.32
(1,107)	1:56:A:LEU:HD21	1:58:A:ALA:H	10	0.32
(1,107)	1:56:A:LEU:HD22	1:58:A:ALA:H	10	0.32
(1,107)	1:56:A:LEU:HD23	1:58:A:ALA:H	10	0.32
(1,104)	1:70:A:ASN:HD22	1:71:A:ARG:HD2	4	0.32
(1,104)	1:70:A:ASN:HD22	1:71:A:ARG:HD3	4	0.32
(1,102)	1:51:A:GLU:H	1:52:A:GLN:HE21	9	0.32
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG21	19	0.32
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG22	19	0.32
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG23	19	0.32
(1,78)	1:87:A:PHE:HA	1:151:A:VAL:HG11	20	0.32
(1,78)	1:87:A:PHE:HA	1:151:A:VAL:HG12	20	0.32
(1,78)	1:87:A:PHE:HA	1:151:A:VAL:HG13	20	0.32
(1,70)	1:45:A:ARG:HD2	1:47:A:GLN:H	12	0.32
(1,70)	1:45:A:ARG:HD3	1:47:A:GLN:H	12	0.32
(1,52)	1:139:A:ALA:H	1:150:A:TRP:HB3	10	0.32
(1,50)	1:150:A:TRP:HA	1:151:A:VAL:HB	9	0.32
(1,48)	1:65:A:ASP:HB3	1:68:A:VAL:HA	18	0.32
(1,44)	1:43:A:ILE:HG21	1:48:A:LEU:H	3	0.32
(1,44)	1:43:A:ILE:HG22	1:48:A:LEU:H	3	0.32
(1,44)	1:43:A:ILE:HG23	1:48:A:LEU:H	3	0.32
(1,28)	1:146:A:ARG:HE	1:147:A:VAL:HG21	7	0.32
(1,28)	1:146:A:ARG:HE	1:147:A:VAL:HG22	7	0.32
(1,28)	1:146:A:ARG:HE	1:147:A:VAL:HG23	7	0.32
(1,24)	1:69:A:LEU:HB2	1:70:A:ASN:HB3	5	0.32
(1,24)	1:69:A:LEU:HB3	1:70:A:ASN:HB3	5	0.32
(1,24)	1:69:A:LEU:HB2	1:70:A:ASN:HB3	8	0.32
(1,24)	1:69:A:LEU:HB3	1:70:A:ASN:HB3	8	0.32
(1,24)	1:69:A:LEU:HB2	1:70:A:ASN:HB3	10	0.32
(1,24)	1:69:A:LEU:HB3	1:70:A:ASN:HB3	10	0.32
(1,19)	1:87:A:PHE:HA	1:96:A:ALA:H	12	0.32
(1,19)	1:87:A:PHE:HA	1:96:A:ALA:H	15	0.32
(1,7)	1:97:A:HIS:HA	1:150:A:TRP:HZ3	12	0.32
(1,7)	1:97:A:HIS:HA	1:150:A:TRP:HZ3	20	0.32
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD11	15	0.31
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD12	15	0.31
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD13	15	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD21	15	0.31
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD22	15	0.31
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD23	15	0.31
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD11	15	0.31
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD12	15	0.31
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD13	15	0.31
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD21	15	0.31
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD22	15	0.31
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD23	15	0.31
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG21	6	0.31
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG22	6	0.31
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG23	6	0.31
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG21	6	0.31
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG22	6	0.31
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG23	6	0.31
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG21	10	0.31
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG22	10	0.31
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG23	10	0.31
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG21	10	0.31
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG22	10	0.31
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG23	10	0.31
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD11	6	0.31
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD12	6	0.31
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD13	6	0.31
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD21	6	0.31
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD22	6	0.31
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD23	6	0.31
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD11	13	0.31
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD12	13	0.31
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD13	13	0.31
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD21	13	0.31
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD22	13	0.31
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD23	13	0.31
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG11	15	0.31
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG12	15	0.31
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG13	15	0.31
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG21	15	0.31
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG22	15	0.31
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG23	15	0.31
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG11	15	0.31
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG12	15	0.31
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG13	15	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG21	15	0.31
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG22	15	0.31
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG23	15	0.31
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG11	15	0.31
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG12	15	0.31
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG13	15	0.31
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG21	15	0.31
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG22	15	0.31
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG23	15	0.31
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG11	20	0.31
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG12	20	0.31
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG13	20	0.31
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG21	20	0.31
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG22	20	0.31
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG23	20	0.31
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG11	20	0.31
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG12	20	0.31
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG13	20	0.31
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG21	20	0.31
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG22	20	0.31
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG23	20	0.31
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG11	20	0.31
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG12	20	0.31
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG13	20	0.31
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG21	20	0.31
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG22	20	0.31
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG23	20	0.31
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG11	2	0.31
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG12	2	0.31
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG13	2	0.31
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG21	2	0.31
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG22	2	0.31
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG23	2	0.31
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG11	5	0.31
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG12	5	0.31
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG13	5	0.31
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG21	5	0.31
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG22	5	0.31
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG23	5	0.31
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG11	8	0.31
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG12	8	0.31
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG13	8	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG21	8	0.31
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG22	8	0.31
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG23	8	0.31
(1,1045)	1:66:A:THR:HG21	1:147:A:VAL:HG11	3	0.31
(1,1045)	1:66:A:THR:HG21	1:147:A:VAL:HG12	3	0.31
(1,1045)	1:66:A:THR:HG21	1:147:A:VAL:HG13	3	0.31
(1,1045)	1:66:A:THR:HG22	1:147:A:VAL:HG11	3	0.31
(1,1045)	1:66:A:THR:HG22	1:147:A:VAL:HG12	3	0.31
(1,1045)	1:66:A:THR:HG22	1:147:A:VAL:HG13	3	0.31
(1,1045)	1:66:A:THR:HG23	1:147:A:VAL:HG11	3	0.31
(1,1045)	1:66:A:THR:HG23	1:147:A:VAL:HG12	3	0.31
(1,1045)	1:66:A:THR:HG23	1:147:A:VAL:HG13	3	0.31
(1,968)	1:73:A:ALA:HB1	1:75:A:GLU:HB2	10	0.31
(1,968)	1:73:A:ALA:HB1	1:75:A:GLU:HB3	10	0.31
(1,968)	1:73:A:ALA:HB2	1:75:A:GLU:HB2	10	0.31
(1,968)	1:73:A:ALA:HB2	1:75:A:GLU:HB3	10	0.31
(1,968)	1:73:A:ALA:HB3	1:75:A:GLU:HB2	10	0.31
(1,968)	1:73:A:ALA:HB3	1:75:A:GLU:HB3	10	0.31
(1,967)	1:74:A:ASN:HA	1:74:A:ASN:HD22	1	0.31
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG21	12	0.31
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG22	12	0.31
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG23	12	0.31
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG21	18	0.31
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG22	18	0.31
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG23	18	0.31
(1,959)	1:79:A:GLN:HB2	1:111:A:ALA:HA	8	0.31
(1,955)	1:43:A:ILE:HD11	1:52:A:GLN:H	9	0.31
(1,955)	1:43:A:ILE:HD12	1:52:A:GLN:H	9	0.31
(1,955)	1:43:A:ILE:HD13	1:52:A:GLN:H	9	0.31
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB1	12	0.31
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB2	12	0.31
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB3	12	0.31
(1,849)	1:89:A:ASP:H	1:95:A:LEU:HD21	8	0.31
(1,849)	1:89:A:ASP:H	1:95:A:LEU:HD22	8	0.31
(1,849)	1:89:A:ASP:H	1:95:A:LEU:HD23	8	0.31
(1,836)	1:136:A:LEU:HG	1:137:A:SER:H	18	0.31
(1,822)	1:75:A:GLU:H	1:77:A:LEU:HB2	1	0.31
(1,822)	1:75:A:GLU:H	1:77:A:LEU:HB3	1	0.31
(1,811)	1:74:A:ASN:H	1:77:A:LEU:HB2	7	0.31
(1,811)	1:74:A:ASN:H	1:77:A:LEU:HB3	7	0.31
(1,811)	1:74:A:ASN:H	1:77:A:LEU:HB2	18	0.31
(1,811)	1:74:A:ASN:H	1:77:A:LEU:HB3	18	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,811)	1:74:A:ASN:H	1:77:A:LEU:HB2	19	0.31
(1,811)	1:74:A:ASN:H	1:77:A:LEU:HB3	19	0.31
(1,790)	1:74:A:ASN:HD21	1:98:A:ALA:HB1	11	0.31
(1,790)	1:74:A:ASN:HD21	1:98:A:ALA:HB2	11	0.31
(1,790)	1:74:A:ASN:HD21	1:98:A:ALA:HB3	11	0.31
(1,769)	1:68:A:VAL:H	1:72:A:ILE:HD11	8	0.31
(1,769)	1:68:A:VAL:H	1:72:A:ILE:HD12	8	0.31
(1,769)	1:68:A:VAL:H	1:72:A:ILE:HD13	8	0.31
(1,737)	1:47:A:GLN:HE21	1:52:A:GLN:HE21	18	0.31
(1,666)	1:47:A:GLN:HB2	1:52:A:GLN:HG2	12	0.31
(1,666)	1:47:A:GLN:HB2	1:52:A:GLN:HG3	12	0.31
(1,666)	1:47:A:GLN:HB3	1:52:A:GLN:HG2	12	0.31
(1,666)	1:47:A:GLN:HB3	1:52:A:GLN:HG3	12	0.31
(1,657)	1:59:A:THR:HA	1:62:A:ALA:H	5	0.31
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG21	11	0.31
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG22	11	0.31
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG23	11	0.31
(1,612)	1:41:A:GLN:HB2	1:42:A:LEU:H	13	0.31
(1,612)	1:41:A:GLN:HB3	1:42:A:LEU:H	13	0.31
(1,547)	1:61:A:LEU:HD21	1:64:A:LYS:HA	8	0.31
(1,547)	1:61:A:LEU:HD22	1:64:A:LYS:HA	8	0.31
(1,547)	1:61:A:LEU:HD23	1:64:A:LYS:HA	8	0.31
(1,539)	1:70:A:ASN:HD22	1:74:A:ASN:HB2	13	0.31
(1,531)	1:111:A:ALA:HB1	1:114:A:LEU:HB2	16	0.31
(1,531)	1:111:A:ALA:HB1	1:114:A:LEU:HB3	16	0.31
(1,531)	1:111:A:ALA:HB2	1:114:A:LEU:HB2	16	0.31
(1,531)	1:111:A:ALA:HB2	1:114:A:LEU:HB3	16	0.31
(1,531)	1:111:A:ALA:HB3	1:114:A:LEU:HB2	16	0.31
(1,531)	1:111:A:ALA:HB3	1:114:A:LEU:HB3	16	0.31
(1,521)	1:98:A:ALA:HA	1:103:A:LEU:H	13	0.31
(1,511)	1:146:A:ARG:HE	1:147:A:VAL:HG11	7	0.31
(1,511)	1:146:A:ARG:HE	1:147:A:VAL:HG12	7	0.31
(1,511)	1:146:A:ARG:HE	1:147:A:VAL:HG13	7	0.31
(1,500)	1:43:A:ILE:HG21	1:47:A:GLN:H	13	0.31
(1,500)	1:43:A:ILE:HG22	1:47:A:GLN:H	13	0.31
(1,500)	1:43:A:ILE:HG23	1:47:A:GLN:H	13	0.31
(1,485)	1:44:A:GLU:HG2	1:45:A:ARG:HA	13	0.31
(1,485)	1:44:A:GLU:HG3	1:45:A:ARG:HA	13	0.31
(1,481)	1:43:A:ILE:HA	1:45:A:ARG:HB2	16	0.31
(1,481)	1:43:A:ILE:HA	1:45:A:ARG:HB3	16	0.31
(1,481)	1:43:A:ILE:HA	1:45:A:ARG:HB2	19	0.31
(1,481)	1:43:A:ILE:HA	1:45:A:ARG:HB3	19	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,461)	1:43:A:ILE:HD11	1:47:A:GLN:H	4	0.31
(1,461)	1:43:A:ILE:HD12	1:47:A:GLN:H	4	0.31
(1,461)	1:43:A:ILE:HD13	1:47:A:GLN:H	4	0.31
(1,461)	1:43:A:ILE:HD11	1:47:A:GLN:H	5	0.31
(1,461)	1:43:A:ILE:HD12	1:47:A:GLN:H	5	0.31
(1,461)	1:43:A:ILE:HD13	1:47:A:GLN:H	5	0.31
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD21	12	0.31
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD22	12	0.31
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD23	12	0.31
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD21	12	0.31
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD22	12	0.31
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD23	12	0.31
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD21	12	0.31
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD22	12	0.31
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD23	12	0.31
(1,425)	1:42:A:LEU:HA	1:56:A:LEU:HG	19	0.31
(1,390)	1:95:A:LEU:HA	1:120:A:LEU:HD11	17	0.31
(1,390)	1:95:A:LEU:HA	1:120:A:LEU:HD12	17	0.31
(1,390)	1:95:A:LEU:HA	1:120:A:LEU:HD13	17	0.31
(1,390)	1:95:A:LEU:HA	1:120:A:LEU:HD21	17	0.31
(1,390)	1:95:A:LEU:HA	1:120:A:LEU:HD22	17	0.31
(1,390)	1:95:A:LEU:HA	1:120:A:LEU:HD23	17	0.31
(1,379)	1:73:A:ALA:H	1:75:A:GLU:HG2	5	0.31
(1,379)	1:73:A:ALA:H	1:75:A:GLU:HG3	5	0.31
(1,366)	1:70:A:ASN:H	1:72:A:ILE:HG12	9	0.31
(1,366)	1:70:A:ASN:H	1:72:A:ILE:HG13	9	0.31
(1,335)	1:76:A:ALA:HB1	1:78:A:ASP:H	5	0.31
(1,335)	1:76:A:ALA:HB2	1:78:A:ASP:H	5	0.31
(1,335)	1:76:A:ALA:HB3	1:78:A:ASP:H	5	0.31
(1,328)	1:47:A:GLN:HE21	1:52:A:GLN:H	15	0.31
(1,301)	1:88:A:LEU:HA	1:95:A:LEU:HB2	9	0.31
(1,301)	1:88:A:LEU:HA	1:95:A:LEU:HB3	9	0.31
(1,301)	1:88:A:LEU:HA	1:95:A:LEU:HB2	17	0.31
(1,301)	1:88:A:LEU:HA	1:95:A:LEU:HB3	17	0.31
(1,278)	1:47:A:GLN:H	1:52:A:GLN:HE21	13	0.31
(1,270)	1:82:A:VAL:H	1:155:A:LEU:HB2	6	0.31
(1,270)	1:82:A:VAL:H	1:155:A:LEU:HB3	6	0.31
(1,264)	1:83:A:ARG:H	1:154:A:GLU:HB2	3	0.31
(1,264)	1:83:A:ARG:H	1:154:A:GLU:HB3	3	0.31
(1,251)	1:88:A:LEU:HG	1:150:A:TRP:H	12	0.31
(1,234)	1:66:A:THR:HB	1:87:A:PHE:HB2	15	0.31
(1,232)	1:71:A:ARG:HB2	1:73:A:ALA:H	7	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,232)	1:71:A:ARG:HB3	1:73:A:ALA:H	7	0.31
(1,232)	1:71:A:ARG:HB2	1:73:A:ALA:H	8	0.31
(1,232)	1:71:A:ARG:HB3	1:73:A:ALA:H	8	0.31
(1,232)	1:71:A:ARG:HB2	1:73:A:ALA:H	9	0.31
(1,232)	1:71:A:ARG:HB3	1:73:A:ALA:H	9	0.31
(1,232)	1:71:A:ARG:HB2	1:73:A:ALA:H	18	0.31
(1,232)	1:71:A:ARG:HB3	1:73:A:ALA:H	18	0.31
(1,141)	1:97:A:HIS:HB3	1:103:A:LEU:H	17	0.31
(1,112)	1:88:A:LEU:HB2	1:150:A:TRP:HB3	12	0.31
(1,112)	1:88:A:LEU:HB3	1:150:A:TRP:HB3	12	0.31
(1,112)	1:88:A:LEU:HB2	1:150:A:TRP:HB3	20	0.31
(1,112)	1:88:A:LEU:HB3	1:150:A:TRP:HB3	20	0.31
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG21	17	0.31
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG22	17	0.31
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG23	17	0.31
(1,90)	1:87:A:PHE:HE1	1:98:A:ALA:H	11	0.31
(1,90)	1:87:A:PHE:HE2	1:98:A:ALA:H	11	0.31
(1,73)	1:90:A:ALA:HB1	1:149:A:GLY:HA2	16	0.31
(1,73)	1:90:A:ALA:HB2	1:149:A:GLY:HA2	16	0.31
(1,73)	1:90:A:ALA:HB3	1:149:A:GLY:HA2	16	0.31
(1,51)	1:90:A:ALA:H	1:91:A:ARG:HA	19	0.31
(1,48)	1:65:A:ASP:HB3	1:68:A:VAL:HA	5	0.31
(1,48)	1:65:A:ASP:HB3	1:68:A:VAL:HA	10	0.31
(1,44)	1:43:A:ILE:HG21	1:48:A:LEU:H	4	0.31
(1,44)	1:43:A:ILE:HG22	1:48:A:LEU:H	4	0.31
(1,44)	1:43:A:ILE:HG23	1:48:A:LEU:H	4	0.31
(1,34)	1:88:A:LEU:H	1:150:A:TRP:HH2	14	0.31
(1,29)	1:87:A:PHE:HE1	1:96:A:ALA:H	16	0.31
(1,29)	1:87:A:PHE:HE2	1:96:A:ALA:H	16	0.31
(1,19)	1:87:A:PHE:HA	1:96:A:ALA:H	9	0.31
(1,17)	1:70:A:ASN:HD21	1:74:A:ASN:HB2	8	0.31
(1,1184)	1:135:A:SER:HB2	1:136:A:LEU:H	5	0.3
(1,1184)	1:135:A:SER:HB3	1:136:A:LEU:H	5	0.3
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG11	9	0.3
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG12	9	0.3
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG13	9	0.3
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG21	9	0.3
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG22	9	0.3
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG23	9	0.3
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD11	12	0.3
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD12	12	0.3
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD13	12	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD21	12	0.3
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD22	12	0.3
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD23	12	0.3
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG11	7	0.3
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG12	7	0.3
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG13	7	0.3
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG21	7	0.3
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG22	7	0.3
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG23	7	0.3
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG11	7	0.3
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG12	7	0.3
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG13	7	0.3
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG21	7	0.3
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG22	7	0.3
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG23	7	0.3
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG11	7	0.3
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG12	7	0.3
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG13	7	0.3
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG21	7	0.3
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG22	7	0.3
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG23	7	0.3
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB1	8	0.3
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB2	8	0.3
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB3	8	0.3
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB1	8	0.3
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB2	8	0.3
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB3	8	0.3
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB1	8	0.3
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB2	8	0.3
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB3	8	0.3
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB1	13	0.3
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB2	13	0.3
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB3	13	0.3
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB1	13	0.3
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB2	13	0.3
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB3	13	0.3
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB1	13	0.3
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB2	13	0.3
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB3	13	0.3
(1,998)	1:61:A:LEU:HA	1:65:A:ASP:H	6	0.3
(1,987)	1:146:A:ARG:HG2	1:147:A:VAL:HA	10	0.3
(1,987)	1:146:A:ARG:HG3	1:147:A:VAL:HA	10	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,987)	1:146:A:ARG:HG2	1:147:A:VAL:HA	18	0.3
(1,987)	1:146:A:ARG:HG3	1:147:A:VAL:HA	18	0.3
(1,968)	1:73:A:ALA:HB1	1:75:A:GLU:HB2	12	0.3
(1,968)	1:73:A:ALA:HB1	1:75:A:GLU:HB3	12	0.3
(1,968)	1:73:A:ALA:HB2	1:75:A:GLU:HB2	12	0.3
(1,968)	1:73:A:ALA:HB2	1:75:A:GLU:HB3	12	0.3
(1,968)	1:73:A:ALA:HB3	1:75:A:GLU:HB2	12	0.3
(1,968)	1:73:A:ALA:HB3	1:75:A:GLU:HB3	12	0.3
(1,959)	1:79:A:GLN:HB2	1:111:A:ALA:HA	11	0.3
(1,952)	1:89:A:ASP:HA	1:95:A:LEU:HG	2	0.3
(1,841)	1:130:A:LEU:HD11	1:132:A:ARG:H	6	0.3
(1,841)	1:130:A:LEU:HD12	1:132:A:ARG:H	6	0.3
(1,841)	1:130:A:LEU:HD13	1:132:A:ARG:H	6	0.3
(1,841)	1:130:A:LEU:HD21	1:132:A:ARG:H	6	0.3
(1,841)	1:130:A:LEU:HD22	1:132:A:ARG:H	6	0.3
(1,841)	1:130:A:LEU:HD23	1:132:A:ARG:H	6	0.3
(1,822)	1:75:A:GLU:H	1:77:A:LEU:HB2	14	0.3
(1,822)	1:75:A:GLU:H	1:77:A:LEU:HB3	14	0.3
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB1	20	0.3
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB2	20	0.3
(1,818)	1:71:A:ARG:H	1:73:A:ALA:HB3	20	0.3
(1,811)	1:74:A:ASN:H	1:77:A:LEU:HB2	12	0.3
(1,811)	1:74:A:ASN:H	1:77:A:LEU:HB3	12	0.3
(1,811)	1:74:A:ASN:H	1:77:A:LEU:HB2	15	0.3
(1,811)	1:74:A:ASN:H	1:77:A:LEU:HB3	15	0.3
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB1	13	0.3
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB2	13	0.3
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB3	13	0.3
(1,742)	1:88:A:LEU:HB2	1:93:A:GLU:HG2	7	0.3
(1,742)	1:88:A:LEU:HB2	1:93:A:GLU:HG3	7	0.3
(1,742)	1:88:A:LEU:HB3	1:93:A:GLU:HG2	7	0.3
(1,742)	1:88:A:LEU:HB3	1:93:A:GLU:HG3	7	0.3
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD11	3	0.3
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD12	3	0.3
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD13	3	0.3
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD21	3	0.3
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD22	3	0.3
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD23	3	0.3
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD11	3	0.3
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD12	3	0.3
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD13	3	0.3
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD21	3	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD22	3	0.3
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD23	3	0.3
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD11	3	0.3
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD12	3	0.3
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD13	3	0.3
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD21	3	0.3
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD22	3	0.3
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD23	3	0.3
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD11	9	0.3
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD12	9	0.3
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD13	9	0.3
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD21	9	0.3
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD22	9	0.3
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD23	9	0.3
(1,707)	1:74:A:ASN:HA	1:98:A:ALA:HB1	19	0.3
(1,707)	1:74:A:ASN:HA	1:98:A:ALA:HB2	19	0.3
(1,707)	1:74:A:ASN:HA	1:98:A:ALA:HB3	19	0.3
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG21	7	0.3
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG22	7	0.3
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG23	7	0.3
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG21	9	0.3
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG22	9	0.3
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG23	9	0.3
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG21	15	0.3
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG22	15	0.3
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG23	15	0.3
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG11	15	0.3
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG12	15	0.3
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG13	15	0.3
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG21	15	0.3
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG22	15	0.3
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG23	15	0.3
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG21	11	0.3
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG22	11	0.3
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG23	11	0.3
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG21	11	0.3
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG22	11	0.3
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG23	11	0.3
(1,568)	1:111:A:ALA:HA	1:114:A:LEU:H	13	0.3
(1,548)	1:67:A:ALA:HB1	1:68:A:VAL:HA	20	0.3
(1,548)	1:67:A:ALA:HB2	1:68:A:VAL:HA	20	0.3
(1,548)	1:67:A:ALA:HB3	1:68:A:VAL:HA	20	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,511)	1:146:A:ARG:HE	1:147:A:VAL:HG11	18	0.3
(1,511)	1:146:A:ARG:HE	1:147:A:VAL:HG12	18	0.3
(1,511)	1:146:A:ARG:HE	1:147:A:VAL:HG13	18	0.3
(1,500)	1:43:A:ILE:HG21	1:47:A:GLN:H	7	0.3
(1,500)	1:43:A:ILE:HG22	1:47:A:GLN:H	7	0.3
(1,500)	1:43:A:ILE:HG23	1:47:A:GLN:H	7	0.3
(1,495)	1:93:A:GLU:HG2	1:124:A:HIS:HA	11	0.3
(1,495)	1:93:A:GLU:HG3	1:124:A:HIS:HA	11	0.3
(1,495)	1:93:A:GLU:HG2	1:124:A:HIS:HA	14	0.3
(1,495)	1:93:A:GLU:HG3	1:124:A:HIS:HA	14	0.3
(1,495)	1:93:A:GLU:HG2	1:124:A:HIS:HA	18	0.3
(1,495)	1:93:A:GLU:HG3	1:124:A:HIS:HA	18	0.3
(1,485)	1:44:A:GLU:HG2	1:45:A:ARG:HA	15	0.3
(1,485)	1:44:A:GLU:HG3	1:45:A:ARG:HA	15	0.3
(1,481)	1:43:A:ILE:HA	1:45:A:ARG:HB2	6	0.3
(1,481)	1:43:A:ILE:HA	1:45:A:ARG:HB3	6	0.3
(1,477)	1:135:A:SER:HB3	1:136:A:LEU:H	5	0.3
(1,477)	1:135:A:SER:HB3	1:136:A:LEU:H	15	0.3
(1,461)	1:43:A:ILE:HD11	1:47:A:GLN:H	2	0.3
(1,461)	1:43:A:ILE:HD12	1:47:A:GLN:H	2	0.3
(1,461)	1:43:A:ILE:HD13	1:47:A:GLN:H	2	0.3
(1,461)	1:43:A:ILE:HD11	1:47:A:GLN:H	9	0.3
(1,461)	1:43:A:ILE:HD12	1:47:A:GLN:H	9	0.3
(1,461)	1:43:A:ILE:HD13	1:47:A:GLN:H	9	0.3
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD21	2	0.3
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD22	2	0.3
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD23	2	0.3
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD21	2	0.3
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD22	2	0.3
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD23	2	0.3
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD21	2	0.3
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD22	2	0.3
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD23	2	0.3
(1,425)	1:42:A:LEU:HA	1:56:A:LEU:HG	13	0.3
(1,404)	1:50:A:ALA:H	1:51:A:GLU:HB2	16	0.3
(1,404)	1:50:A:ALA:H	1:51:A:GLU:HB3	16	0.3
(1,400)	1:94:A:ARG:HA	1:123:A:THR:HA	14	0.3
(1,366)	1:70:A:ASN:H	1:72:A:ILE:HG12	16	0.3
(1,366)	1:70:A:ASN:H	1:72:A:ILE:HG13	16	0.3
(1,331)	1:66:A:THR:H	1:147:A:VAL:HG21	11	0.3
(1,331)	1:66:A:THR:H	1:147:A:VAL:HG22	11	0.3
(1,331)	1:66:A:THR:H	1:147:A:VAL:HG23	11	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,322)	1:60:A:ALA:H	1:65:A:ASP:HB2	15	0.3
(1,311)	1:98:A:ALA:H	1:152:A:GLU:HB2	14	0.3
(1,311)	1:98:A:ALA:H	1:152:A:GLU:HB3	14	0.3
(1,257)	1:104:A:THR:H	1:106:A:ALA:H	17	0.3
(1,249)	1:139:A:ALA:H	1:147:A:VAL:HG21	5	0.3
(1,249)	1:139:A:ALA:H	1:147:A:VAL:HG22	5	0.3
(1,249)	1:139:A:ALA:H	1:147:A:VAL:HG23	5	0.3
(1,232)	1:71:A:ARG:HB2	1:73:A:ALA:H	2	0.3
(1,232)	1:71:A:ARG:HB3	1:73:A:ALA:H	2	0.3
(1,232)	1:71:A:ARG:HB2	1:73:A:ALA:H	6	0.3
(1,232)	1:71:A:ARG:HB3	1:73:A:ALA:H	6	0.3
(1,232)	1:71:A:ARG:HB2	1:73:A:ALA:H	12	0.3
(1,232)	1:71:A:ARG:HB3	1:73:A:ALA:H	12	0.3
(1,223)	1:111:A:ALA:H	1:114:A:LEU:H	8	0.3
(1,223)	1:111:A:ALA:H	1:114:A:LEU:H	11	0.3
(1,222)	1:136:A:LEU:HD11	1:138:A:GLY:H	17	0.3
(1,222)	1:136:A:LEU:HD12	1:138:A:GLY:H	17	0.3
(1,222)	1:136:A:LEU:HD13	1:138:A:GLY:H	17	0.3
(1,222)	1:136:A:LEU:HD21	1:138:A:GLY:H	17	0.3
(1,222)	1:136:A:LEU:HD22	1:138:A:GLY:H	17	0.3
(1,222)	1:136:A:LEU:HD23	1:138:A:GLY:H	17	0.3
(1,216)	1:60:A:ALA:H	1:63:A:ARG:HD2	3	0.3
(1,216)	1:60:A:ALA:H	1:63:A:ARG:HD3	3	0.3
(1,172)	1:159:A:GLY:H	1:162:A:LEU:HD11	9	0.3
(1,172)	1:159:A:GLY:H	1:162:A:LEU:HD12	9	0.3
(1,172)	1:159:A:GLY:H	1:162:A:LEU:HD13	9	0.3
(1,172)	1:159:A:GLY:H	1:162:A:LEU:HD21	9	0.3
(1,172)	1:159:A:GLY:H	1:162:A:LEU:HD22	9	0.3
(1,172)	1:159:A:GLY:H	1:162:A:LEU:HD23	9	0.3
(1,147)	1:64:A:LYS:HD2	1:65:A:ASP:H	15	0.3
(1,147)	1:64:A:LYS:HD3	1:65:A:ASP:H	15	0.3
(1,139)	1:83:A:ARG:HG2	1:154:A:GLU:HA	9	0.3
(1,139)	1:83:A:ARG:HG3	1:154:A:GLU:HA	9	0.3
(1,133)	1:65:A:ASP:HA	1:147:A:VAL:HG21	19	0.3
(1,133)	1:65:A:ASP:HA	1:147:A:VAL:HG22	19	0.3
(1,133)	1:65:A:ASP:HA	1:147:A:VAL:HG23	19	0.3
(1,129)	1:70:A:ASN:HB2	1:71:A:ARG:HE	19	0.3
(1,114)	1:118:A:THR:H	1:119:A:GLU:HB2	14	0.3
(1,114)	1:118:A:THR:H	1:119:A:GLU:HB3	14	0.3
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB1	4	0.3
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB2	4	0.3
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB3	4	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB1	4	0.3
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB2	4	0.3
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB3	4	0.3
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB1	11	0.3
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB2	11	0.3
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB3	11	0.3
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB1	11	0.3
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB2	11	0.3
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB3	11	0.3
(1,65)	1:147:A:VAL:HG21	1:149:A:GLY:HA2	20	0.3
(1,65)	1:147:A:VAL:HG22	1:149:A:GLY:HA2	20	0.3
(1,65)	1:147:A:VAL:HG23	1:149:A:GLY:HA2	20	0.3
(1,65)	1:147:A:VAL:HG21	1:149:A:GLY:HA3	20	0.3
(1,65)	1:147:A:VAL:HG22	1:149:A:GLY:HA3	20	0.3
(1,65)	1:147:A:VAL:HG23	1:149:A:GLY:HA3	20	0.3
(1,43)	1:83:A:ARG:HA	1:155:A:LEU:HA	16	0.3
(1,28)	1:146:A:ARG:HE	1:147:A:VAL:HG21	16	0.3
(1,28)	1:146:A:ARG:HE	1:147:A:VAL:HG22	16	0.3
(1,28)	1:146:A:ARG:HE	1:147:A:VAL:HG23	16	0.3
(1,19)	1:87:A:PHE:HA	1:96:A:ALA:H	1	0.3
(1,1193)	1:148:A:LEU:HD11	1:149:A:GLY:H	6	0.29
(1,1193)	1:148:A:LEU:HD12	1:149:A:GLY:H	6	0.29
(1,1193)	1:148:A:LEU:HD13	1:149:A:GLY:H	6	0.29
(1,1193)	1:148:A:LEU:HD21	1:149:A:GLY:H	6	0.29
(1,1193)	1:148:A:LEU:HD22	1:149:A:GLY:H	6	0.29
(1,1193)	1:148:A:LEU:HD23	1:149:A:GLY:H	6	0.29
(1,1193)	1:148:A:LEU:HD11	1:149:A:GLY:H	20	0.29
(1,1193)	1:148:A:LEU:HD12	1:149:A:GLY:H	20	0.29
(1,1193)	1:148:A:LEU:HD13	1:149:A:GLY:H	20	0.29
(1,1193)	1:148:A:LEU:HD21	1:149:A:GLY:H	20	0.29
(1,1193)	1:148:A:LEU:HD22	1:149:A:GLY:H	20	0.29
(1,1193)	1:148:A:LEU:HD23	1:149:A:GLY:H	20	0.29
(1,1190)	1:146:A:ARG:HB2	1:151:A:VAL:HG11	3	0.29
(1,1190)	1:146:A:ARG:HB2	1:151:A:VAL:HG12	3	0.29
(1,1190)	1:146:A:ARG:HB2	1:151:A:VAL:HG13	3	0.29
(1,1190)	1:146:A:ARG:HB2	1:151:A:VAL:HG21	3	0.29
(1,1190)	1:146:A:ARG:HB2	1:151:A:VAL:HG22	3	0.29
(1,1190)	1:146:A:ARG:HB2	1:151:A:VAL:HG23	3	0.29
(1,1190)	1:146:A:ARG:HB3	1:151:A:VAL:HG11	3	0.29
(1,1190)	1:146:A:ARG:HB3	1:151:A:VAL:HG12	3	0.29
(1,1190)	1:146:A:ARG:HB3	1:151:A:VAL:HG13	3	0.29
(1,1190)	1:146:A:ARG:HB3	1:151:A:VAL:HG21	3	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1190)	1:146:A:ARG:HB3	1:151:A:VAL:HG22	3	0.29
(1,1190)	1:146:A:ARG:HB3	1:151:A:VAL:HG23	3	0.29
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD11	3	0.29
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD12	3	0.29
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD13	3	0.29
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD21	3	0.29
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD22	3	0.29
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD23	3	0.29
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD11	19	0.29
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD12	19	0.29
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD13	19	0.29
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD21	19	0.29
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD22	19	0.29
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD23	19	0.29
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG11	5	0.29
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG12	5	0.29
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG13	5	0.29
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG21	5	0.29
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG22	5	0.29
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG23	5	0.29
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG11	5	0.29
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG12	5	0.29
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG13	5	0.29
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG21	5	0.29
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG22	5	0.29
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG23	5	0.29
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG11	5	0.29
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG12	5	0.29
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG13	5	0.29
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG21	5	0.29
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG22	5	0.29
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG23	5	0.29
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG11	15	0.29
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG12	15	0.29
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG13	15	0.29
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG21	15	0.29
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG22	15	0.29
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG23	15	0.29
(1,998)	1:61:A:LEU:HA	1:65:A:ASP:H	13	0.29
(1,998)	1:61:A:LEU:HA	1:65:A:ASP:H	14	0.29
(1,996)	1:138:A:GLY:H	1:140:A:THR:HG21	1	0.29
(1,996)	1:138:A:GLY:H	1:140:A:THR:HG22	1	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,996)	1:138:A:GLY:H	1:140:A:THR:HG23	1	0.29
(1,987)	1:146:A:ARG:HG2	1:147:A:VAL:HA	5	0.29
(1,987)	1:146:A:ARG:HG3	1:147:A:VAL:HA	5	0.29
(1,987)	1:146:A:ARG:HG2	1:147:A:VAL:HA	13	0.29
(1,987)	1:146:A:ARG:HG3	1:147:A:VAL:HA	13	0.29
(1,987)	1:146:A:ARG:HG2	1:147:A:VAL:HA	17	0.29
(1,987)	1:146:A:ARG:HG3	1:147:A:VAL:HA	17	0.29
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD11	11	0.29
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD12	11	0.29
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD13	11	0.29
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD21	11	0.29
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD22	11	0.29
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD23	11	0.29
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD11	11	0.29
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD12	11	0.29
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD13	11	0.29
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD21	11	0.29
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD22	11	0.29
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD23	11	0.29
(1,968)	1:73:A:ALA:HB1	1:75:A:GLU:HB2	11	0.29
(1,968)	1:73:A:ALA:HB1	1:75:A:GLU:HB3	11	0.29
(1,968)	1:73:A:ALA:HB2	1:75:A:GLU:HB2	11	0.29
(1,968)	1:73:A:ALA:HB2	1:75:A:GLU:HB3	11	0.29
(1,968)	1:73:A:ALA:HB3	1:75:A:GLU:HB2	11	0.29
(1,968)	1:73:A:ALA:HB3	1:75:A:GLU:HB3	11	0.29
(1,968)	1:73:A:ALA:HB1	1:75:A:GLU:HB2	16	0.29
(1,968)	1:73:A:ALA:HB1	1:75:A:GLU:HB3	16	0.29
(1,968)	1:73:A:ALA:HB2	1:75:A:GLU:HB2	16	0.29
(1,968)	1:73:A:ALA:HB2	1:75:A:GLU:HB3	16	0.29
(1,968)	1:73:A:ALA:HB3	1:75:A:GLU:HB2	16	0.29
(1,968)	1:73:A:ALA:HB3	1:75:A:GLU:HB3	16	0.29
(1,742)	1:88:A:LEU:HB2	1:93:A:GLU:HG2	1	0.29
(1,742)	1:88:A:LEU:HB2	1:93:A:GLU:HG3	1	0.29
(1,742)	1:88:A:LEU:HB3	1:93:A:GLU:HG2	1	0.29
(1,742)	1:88:A:LEU:HB3	1:93:A:GLU:HG3	1	0.29
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG21	4	0.29
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG22	4	0.29
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG23	4	0.29
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG11	18	0.29
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG12	18	0.29
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG13	18	0.29
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG21	18	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG22	18	0.29
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG23	18	0.29
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG21	20	0.29
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG22	20	0.29
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG23	20	0.29
(1,614)	1:49:A:ILE:HG21	1:55:A:PRO:HG2	1	0.29
(1,614)	1:49:A:ILE:HG21	1:55:A:PRO:HG3	1	0.29
(1,614)	1:49:A:ILE:HG22	1:55:A:PRO:HG2	1	0.29
(1,614)	1:49:A:ILE:HG22	1:55:A:PRO:HG3	1	0.29
(1,614)	1:49:A:ILE:HG23	1:55:A:PRO:HG2	1	0.29
(1,614)	1:49:A:ILE:HG23	1:55:A:PRO:HG3	1	0.29
(1,612)	1:41:A:GLN:HB2	1:42:A:LEU:H	17	0.29
(1,612)	1:41:A:GLN:HB3	1:42:A:LEU:H	17	0.29
(1,548)	1:67:A:ALA:HB1	1:68:A:VAL:HA	6	0.29
(1,548)	1:67:A:ALA:HB2	1:68:A:VAL:HA	6	0.29
(1,548)	1:67:A:ALA:HB3	1:68:A:VAL:HA	6	0.29
(1,548)	1:67:A:ALA:HB1	1:68:A:VAL:HA	8	0.29
(1,548)	1:67:A:ALA:HB2	1:68:A:VAL:HA	8	0.29
(1,548)	1:67:A:ALA:HB3	1:68:A:VAL:HA	8	0.29
(1,548)	1:67:A:ALA:HB1	1:68:A:VAL:HA	15	0.29
(1,548)	1:67:A:ALA:HB2	1:68:A:VAL:HA	15	0.29
(1,548)	1:67:A:ALA:HB3	1:68:A:VAL:HA	15	0.29
(1,531)	1:111:A:ALA:HB1	1:114:A:LEU:HB2	3	0.29
(1,531)	1:111:A:ALA:HB1	1:114:A:LEU:HB3	3	0.29
(1,531)	1:111:A:ALA:HB2	1:114:A:LEU:HB2	3	0.29
(1,531)	1:111:A:ALA:HB2	1:114:A:LEU:HB3	3	0.29
(1,531)	1:111:A:ALA:HB3	1:114:A:LEU:HB2	3	0.29
(1,531)	1:111:A:ALA:HB3	1:114:A:LEU:HB3	3	0.29
(1,509)	1:43:A:ILE:HD11	1:53:A:LEU:H	4	0.29
(1,509)	1:43:A:ILE:HD12	1:53:A:LEU:H	4	0.29
(1,509)	1:43:A:ILE:HD13	1:53:A:LEU:H	4	0.29
(1,500)	1:43:A:ILE:HG21	1:47:A:GLN:H	10	0.29
(1,500)	1:43:A:ILE:HG22	1:47:A:GLN:H	10	0.29
(1,500)	1:43:A:ILE:HG23	1:47:A:GLN:H	10	0.29
(1,500)	1:43:A:ILE:HG21	1:47:A:GLN:H	18	0.29
(1,500)	1:43:A:ILE:HG22	1:47:A:GLN:H	18	0.29
(1,500)	1:43:A:ILE:HG23	1:47:A:GLN:H	18	0.29
(1,442)	1:141:A:GLU:HB2	1:145:A:GLU:H	14	0.29
(1,442)	1:141:A:GLU:HB3	1:145:A:GLU:H	14	0.29
(1,432)	1:131:A:GLY:H	1:132:A:ARG:HG2	7	0.29
(1,432)	1:131:A:GLY:H	1:132:A:ARG:HG3	7	0.29
(1,321)	1:65:A:ASP:HB3	1:66:A:THR:H	11	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,319)	1:66:A:THR:HG21	1:71:A:ARG:H	7	0.29
(1,319)	1:66:A:THR:HG22	1:71:A:ARG:H	7	0.29
(1,319)	1:66:A:THR:HG23	1:71:A:ARG:H	7	0.29
(1,319)	1:66:A:THR:HG21	1:71:A:ARG:H	17	0.29
(1,319)	1:66:A:THR:HG22	1:71:A:ARG:H	17	0.29
(1,319)	1:66:A:THR:HG23	1:71:A:ARG:H	17	0.29
(1,291)	1:97:A:HIS:H	1:97:A:HIS:HD2	12	0.29
(1,270)	1:82:A:VAL:H	1:155:A:LEU:HB2	13	0.29
(1,270)	1:82:A:VAL:H	1:155:A:LEU:HB3	13	0.29
(1,248)	1:61:A:LEU:HD21	1:64:A:LYS:H	1	0.29
(1,248)	1:61:A:LEU:HD22	1:64:A:LYS:H	1	0.29
(1,248)	1:61:A:LEU:HD23	1:64:A:LYS:H	1	0.29
(1,247)	1:74:A:ASN:H	1:75:A:GLU:HG2	7	0.29
(1,247)	1:74:A:ASN:H	1:75:A:GLU:HG3	7	0.29
(1,232)	1:71:A:ARG:HB2	1:73:A:ALA:H	3	0.29
(1,232)	1:71:A:ARG:HB3	1:73:A:ALA:H	3	0.29
(1,232)	1:71:A:ARG:HB2	1:73:A:ALA:H	10	0.29
(1,232)	1:71:A:ARG:HB3	1:73:A:ALA:H	10	0.29
(1,232)	1:71:A:ARG:HB2	1:73:A:ALA:H	20	0.29
(1,232)	1:71:A:ARG:HB3	1:73:A:ALA:H	20	0.29
(1,231)	1:95:A:LEU:HD21	1:96:A:ALA:H	16	0.29
(1,231)	1:95:A:LEU:HD22	1:96:A:ALA:H	16	0.29
(1,231)	1:95:A:LEU:HD23	1:96:A:ALA:H	16	0.29
(1,222)	1:136:A:LEU:HD11	1:138:A:GLY:H	11	0.29
(1,222)	1:136:A:LEU:HD12	1:138:A:GLY:H	11	0.29
(1,222)	1:136:A:LEU:HD13	1:138:A:GLY:H	11	0.29
(1,222)	1:136:A:LEU:HD21	1:138:A:GLY:H	11	0.29
(1,222)	1:136:A:LEU:HD22	1:138:A:GLY:H	11	0.29
(1,222)	1:136:A:LEU:HD23	1:138:A:GLY:H	11	0.29
(1,212)	1:47:A:GLN:H	1:51:A:GLU:H	14	0.29
(1,202)	1:163:A:ARG:HE	1:164:A:GLY:H	14	0.29
(1,202)	1:163:A:ARG:HE	1:164:A:GLY:H	17	0.29
(1,160)	1:97:A:HIS:HB3	1:150:A:TRP:HZ3	17	0.29
(1,154)	1:79:A:GLN:HE21	1:111:A:ALA:HA	3	0.29
(1,147)	1:64:A:LYS:HD2	1:65:A:ASP:H	12	0.29
(1,147)	1:64:A:LYS:HD3	1:65:A:ASP:H	12	0.29
(1,134)	1:103:A:LEU:H	1:105:A:VAL:H	18	0.29
(1,133)	1:65:A:ASP:HA	1:147:A:VAL:HG21	1	0.29
(1,133)	1:65:A:ASP:HA	1:147:A:VAL:HG22	1	0.29
(1,133)	1:65:A:ASP:HA	1:147:A:VAL:HG23	1	0.29
(1,133)	1:65:A:ASP:HA	1:147:A:VAL:HG21	5	0.29
(1,133)	1:65:A:ASP:HA	1:147:A:VAL:HG22	5	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,133)	1:65:A:ASP:HA	1:147:A:VAL:HG23	5	0.29
(1,110)	1:71:A:ARG:HD2	1:72:A:ILE:H	1	0.29
(1,110)	1:71:A:ARG:HD3	1:72:A:ILE:H	1	0.29
(1,110)	1:71:A:ARG:HD2	1:72:A:ILE:H	2	0.29
(1,110)	1:71:A:ARG:HD3	1:72:A:ILE:H	2	0.29
(1,107)	1:56:A:LEU:HD11	1:58:A:ALA:H	2	0.29
(1,107)	1:56:A:LEU:HD12	1:58:A:ALA:H	2	0.29
(1,107)	1:56:A:LEU:HD13	1:58:A:ALA:H	2	0.29
(1,107)	1:56:A:LEU:HD21	1:58:A:ALA:H	2	0.29
(1,107)	1:56:A:LEU:HD22	1:58:A:ALA:H	2	0.29
(1,107)	1:56:A:LEU:HD23	1:58:A:ALA:H	2	0.29
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG21	13	0.29
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG22	13	0.29
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG23	13	0.29
(1,83)	1:61:A:LEU:H	1:65:A:ASP:HB2	4	0.29
(1,83)	1:61:A:LEU:H	1:65:A:ASP:HB2	6	0.29
(1,83)	1:61:A:LEU:H	1:65:A:ASP:HB2	18	0.29
(1,70)	1:45:A:ARG:HD2	1:47:A:GLN:H	4	0.29
(1,70)	1:45:A:ARG:HD3	1:47:A:GLN:H	4	0.29
(1,70)	1:45:A:ARG:HD2	1:47:A:GLN:H	6	0.29
(1,70)	1:45:A:ARG:HD3	1:47:A:GLN:H	6	0.29
(1,70)	1:45:A:ARG:HD2	1:47:A:GLN:H	20	0.29
(1,70)	1:45:A:ARG:HD3	1:47:A:GLN:H	20	0.29
(1,59)	1:47:A:GLN:HG2	1:52:A:GLN:HE21	6	0.29
(1,59)	1:47:A:GLN:HG3	1:52:A:GLN:HE21	6	0.29
(1,50)	1:150:A:TRP:HA	1:151:A:VAL:HB	1	0.29
(1,48)	1:65:A:ASP:HB3	1:68:A:VAL:HA	1	0.29
(1,47)	1:70:A:ASN:H	1:71:A:ARG:HE	13	0.29
(1,47)	1:70:A:ASN:H	1:71:A:ARG:HE	18	0.29
(1,28)	1:146:A:ARG:HE	1:147:A:VAL:HG21	4	0.29
(1,28)	1:146:A:ARG:HE	1:147:A:VAL:HG22	4	0.29
(1,28)	1:146:A:ARG:HE	1:147:A:VAL:HG23	4	0.29
(1,28)	1:146:A:ARG:HE	1:147:A:VAL:HG21	14	0.29
(1,28)	1:146:A:ARG:HE	1:147:A:VAL:HG22	14	0.29
(1,28)	1:146:A:ARG:HE	1:147:A:VAL:HG23	14	0.29
(1,16)	1:56:A:LEU:HD11	1:72:A:ILE:H	10	0.29
(1,16)	1:56:A:LEU:HD12	1:72:A:ILE:H	10	0.29
(1,16)	1:56:A:LEU:HD13	1:72:A:ILE:H	10	0.29
(1,16)	1:56:A:LEU:HD21	1:72:A:ILE:H	10	0.29
(1,16)	1:56:A:LEU:HD22	1:72:A:ILE:H	10	0.29
(1,16)	1:56:A:LEU:HD23	1:72:A:ILE:H	10	0.29
(1,7)	1:97:A:HIS:HA	1:150:A:TRP:HZ3	9	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD11	5	0.28
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD12	5	0.28
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD13	5	0.28
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD21	5	0.28
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD22	5	0.28
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD23	5	0.28
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD11	5	0.28
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD12	5	0.28
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD13	5	0.28
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD21	5	0.28
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD22	5	0.28
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD23	5	0.28
(1,1176)	1:124:A:HIS:HD2	1:127:A:LEU:HD11	19	0.28
(1,1176)	1:124:A:HIS:HD2	1:127:A:LEU:HD12	19	0.28
(1,1176)	1:124:A:HIS:HD2	1:127:A:LEU:HD13	19	0.28
(1,1176)	1:124:A:HIS:HD2	1:127:A:LEU:HD21	19	0.28
(1,1176)	1:124:A:HIS:HD2	1:127:A:LEU:HD22	19	0.28
(1,1176)	1:124:A:HIS:HD2	1:127:A:LEU:HD23	19	0.28
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD11	7	0.28
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD12	7	0.28
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD13	7	0.28
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD21	7	0.28
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD22	7	0.28
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD23	7	0.28
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG11	10	0.28
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG12	10	0.28
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG13	10	0.28
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG21	10	0.28
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG22	10	0.28
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG23	10	0.28
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG11	10	0.28
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG12	10	0.28
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG13	10	0.28
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG21	10	0.28
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG22	10	0.28
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG23	10	0.28
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG11	10	0.28
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG12	10	0.28
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG13	10	0.28
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG21	10	0.28
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG22	10	0.28
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG23	10	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG11	6	0.28
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG12	6	0.28
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG13	6	0.28
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG21	6	0.28
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG22	6	0.28
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG23	6	0.28
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG11	11	0.28
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG12	11	0.28
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG13	11	0.28
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG21	11	0.28
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG22	11	0.28
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG23	11	0.28
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG11	17	0.28
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG12	17	0.28
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG13	17	0.28
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG21	17	0.28
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG22	17	0.28
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG23	17	0.28
(1,1059)	1:85:A:VAL:HG21	1:152:A:GLU:H	16	0.28
(1,1059)	1:85:A:VAL:HG22	1:152:A:GLU:H	16	0.28
(1,1059)	1:85:A:VAL:HG23	1:152:A:GLU:H	16	0.28
(1,1058)	1:89:A:ASP:H	1:149:A:GLY:HA2	20	0.28
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB1	16	0.28
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB2	16	0.28
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB3	16	0.28
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB1	16	0.28
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB2	16	0.28
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB3	16	0.28
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB1	16	0.28
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB2	16	0.28
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB3	16	0.28
(1,927)	1:94:A:ARG:HG2	1:131:A:GLY:H	6	0.28
(1,927)	1:94:A:ARG:HG3	1:131:A:GLY:H	6	0.28
(1,892)	1:67:A:ALA:H	1:146:A:ARG:HE	7	0.28
(1,811)	1:74:A:ASN:H	1:77:A:LEU:HB2	5	0.28
(1,811)	1:74:A:ASN:H	1:77:A:LEU:HB3	5	0.28
(1,811)	1:74:A:ASN:H	1:77:A:LEU:HB2	6	0.28
(1,811)	1:74:A:ASN:H	1:77:A:LEU:HB3	6	0.28
(1,811)	1:74:A:ASN:H	1:77:A:LEU:HB2	9	0.28
(1,811)	1:74:A:ASN:H	1:77:A:LEU:HB3	9	0.28
(1,811)	1:74:A:ASN:H	1:77:A:LEU:HB2	13	0.28
(1,811)	1:74:A:ASN:H	1:77:A:LEU:HB3	13	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,811)	1:74:A:ASN:H	1:77:A:LEU:HB2	17	0.28
(1,811)	1:74:A:ASN:H	1:77:A:LEU:HB3	17	0.28
(1,752)	1:140:A:THR:HG21	1:141:A:GLU:H	10	0.28
(1,752)	1:140:A:THR:HG22	1:141:A:GLU:H	10	0.28
(1,752)	1:140:A:THR:HG23	1:141:A:GLU:H	10	0.28
(1,752)	1:140:A:THR:HG21	1:141:A:GLU:H	20	0.28
(1,752)	1:140:A:THR:HG22	1:141:A:GLU:H	20	0.28
(1,752)	1:140:A:THR:HG23	1:141:A:GLU:H	20	0.28
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB1	19	0.28
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB2	19	0.28
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB3	19	0.28
(1,666)	1:47:A:GLN:HB2	1:52:A:GLN:HG2	14	0.28
(1,666)	1:47:A:GLN:HB2	1:52:A:GLN:HG3	14	0.28
(1,666)	1:47:A:GLN:HB3	1:52:A:GLN:HG2	14	0.28
(1,666)	1:47:A:GLN:HB3	1:52:A:GLN:HG3	14	0.28
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG11	2	0.28
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG12	2	0.28
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG13	2	0.28
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG21	2	0.28
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG22	2	0.28
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG23	2	0.28
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG11	4	0.28
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG12	4	0.28
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG13	4	0.28
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG21	4	0.28
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG22	4	0.28
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG23	4	0.28
(1,635)	1:82:A:VAL:HB	1:83:A:ARG:HA	14	0.28
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG21	9	0.28
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG22	9	0.28
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG23	9	0.28
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG21	9	0.28
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG22	9	0.28
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG23	9	0.28
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD21	8	0.28
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD22	8	0.28
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD23	8	0.28
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD21	8	0.28
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD22	8	0.28
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD23	8	0.28
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD21	8	0.28
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD22	8	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD23	8	0.28
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD21	11	0.28
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD22	11	0.28
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD23	11	0.28
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD21	11	0.28
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD22	11	0.28
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD23	11	0.28
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD21	11	0.28
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD22	11	0.28
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD23	11	0.28
(1,593)	1:79:A:GLN:HG3	1:111:A:ALA:HA	17	0.28
(1,548)	1:67:A:ALA:HB1	1:68:A:VAL:HA	11	0.28
(1,548)	1:67:A:ALA:HB2	1:68:A:VAL:HA	11	0.28
(1,548)	1:67:A:ALA:HB3	1:68:A:VAL:HA	11	0.28
(1,548)	1:67:A:ALA:HB1	1:68:A:VAL:HA	12	0.28
(1,548)	1:67:A:ALA:HB2	1:68:A:VAL:HA	12	0.28
(1,548)	1:67:A:ALA:HB3	1:68:A:VAL:HA	12	0.28
(1,548)	1:67:A:ALA:HB1	1:68:A:VAL:HA	18	0.28
(1,548)	1:67:A:ALA:HB2	1:68:A:VAL:HA	18	0.28
(1,548)	1:67:A:ALA:HB3	1:68:A:VAL:HA	18	0.28
(1,539)	1:70:A:ASN:HD22	1:74:A:ASN:HB2	10	0.28
(1,535)	1:110:A:ASP:HB2	1:112:A:SER:H	13	0.28
(1,535)	1:110:A:ASP:HB3	1:112:A:SER:H	13	0.28
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB1	4	0.28
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB2	4	0.28
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB3	4	0.28
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB1	4	0.28
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB2	4	0.28
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB3	4	0.28
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB1	4	0.28
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB2	4	0.28
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB3	4	0.28
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB1	4	0.28
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB2	4	0.28
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB3	4	0.28
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB1	4	0.28
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB2	4	0.28
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB3	4	0.28
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB1	4	0.28
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB2	4	0.28
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB3	4	0.28
(1,500)	1:43:A:ILE:HG21	1:47:A:GLN:H	6	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,500)	1:43:A:ILE:HG22	1:47:A:GLN:H	6	0.28
(1,500)	1:43:A:ILE:HG23	1:47:A:GLN:H	6	0.28
(1,500)	1:43:A:ILE:HG21	1:47:A:GLN:H	11	0.28
(1,500)	1:43:A:ILE:HG22	1:47:A:GLN:H	11	0.28
(1,500)	1:43:A:ILE:HG23	1:47:A:GLN:H	11	0.28
(1,461)	1:43:A:ILE:HD11	1:47:A:GLN:H	7	0.28
(1,461)	1:43:A:ILE:HD12	1:47:A:GLN:H	7	0.28
(1,461)	1:43:A:ILE:HD13	1:47:A:GLN:H	7	0.28
(1,461)	1:43:A:ILE:HD11	1:47:A:GLN:H	11	0.28
(1,461)	1:43:A:ILE:HD12	1:47:A:GLN:H	11	0.28
(1,461)	1:43:A:ILE:HD13	1:47:A:GLN:H	11	0.28
(1,455)	1:61:A:LEU:HD21	1:63:A:ARG:H	2	0.28
(1,455)	1:61:A:LEU:HD22	1:63:A:ARG:H	2	0.28
(1,455)	1:61:A:LEU:HD23	1:63:A:ARG:H	2	0.28
(1,442)	1:141:A:GLU:HB2	1:145:A:GLU:H	11	0.28
(1,442)	1:141:A:GLU:HB3	1:145:A:GLU:H	11	0.28
(1,442)	1:141:A:GLU:HB2	1:145:A:GLU:H	19	0.28
(1,442)	1:141:A:GLU:HB3	1:145:A:GLU:H	19	0.28
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG21	20	0.28
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG22	20	0.28
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG23	20	0.28
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG21	20	0.28
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG22	20	0.28
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG23	20	0.28
(1,425)	1:42:A:LEU:HA	1:56:A:LEU:HG	16	0.28
(1,394)	1:39:A:ARG:HA	1:41:A:GLN:HG3	12	0.28
(1,377)	1:66:A:THR:HG21	1:70:A:ASN:HB3	4	0.28
(1,377)	1:66:A:THR:HG22	1:70:A:ASN:HB3	4	0.28
(1,377)	1:66:A:THR:HG23	1:70:A:ASN:HB3	4	0.28
(1,377)	1:66:A:THR:HG21	1:70:A:ASN:HB3	14	0.28
(1,377)	1:66:A:THR:HG22	1:70:A:ASN:HB3	14	0.28
(1,377)	1:66:A:THR:HG23	1:70:A:ASN:HB3	14	0.28
(1,357)	1:61:A:LEU:HD11	1:64:A:LYS:H	9	0.28
(1,357)	1:61:A:LEU:HD12	1:64:A:LYS:H	9	0.28
(1,357)	1:61:A:LEU:HD13	1:64:A:LYS:H	9	0.28
(1,354)	1:76:A:ALA:HB1	1:79:A:GLN:HE22	13	0.28
(1,354)	1:76:A:ALA:HB2	1:79:A:GLN:HE22	13	0.28
(1,354)	1:76:A:ALA:HB3	1:79:A:GLN:HE22	13	0.28
(1,335)	1:76:A:ALA:HB1	1:78:A:ASP:H	4	0.28
(1,335)	1:76:A:ALA:HB2	1:78:A:ASP:H	4	0.28
(1,335)	1:76:A:ALA:HB3	1:78:A:ASP:H	4	0.28
(1,335)	1:76:A:ALA:HB1	1:78:A:ASP:H	17	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,335)	1:76:A:ALA:HB2	1:78:A:ASP:H	17	0.28
(1,335)	1:76:A:ALA:HB3	1:78:A:ASP:H	17	0.28
(1,330)	1:163:A:ARG:HG2	1:164:A:GLY:H	8	0.28
(1,330)	1:163:A:ARG:HG3	1:164:A:GLY:H	8	0.28
(1,322)	1:60:A:ALA:H	1:65:A:ASP:HB2	5	0.28
(1,316)	1:41:A:GLN:HE21	1:42:A:LEU:H	11	0.28
(1,316)	1:41:A:GLN:HE21	1:42:A:LEU:H	16	0.28
(1,285)	1:42:A:LEU:HB3	1:44:A:GLU:H	17	0.28
(1,270)	1:82:A:VAL:H	1:155:A:LEU:HB2	4	0.28
(1,270)	1:82:A:VAL:H	1:155:A:LEU:HB3	4	0.28
(1,257)	1:104:A:THR:H	1:106:A:ALA:H	9	0.28
(1,251)	1:88:A:LEU:HG	1:150:A:TRP:H	18	0.28
(1,248)	1:61:A:LEU:HD21	1:64:A:LYS:H	5	0.28
(1,248)	1:61:A:LEU:HD22	1:64:A:LYS:H	5	0.28
(1,248)	1:61:A:LEU:HD23	1:64:A:LYS:H	5	0.28
(1,248)	1:61:A:LEU:HD21	1:64:A:LYS:H	14	0.28
(1,248)	1:61:A:LEU:HD22	1:64:A:LYS:H	14	0.28
(1,248)	1:61:A:LEU:HD23	1:64:A:LYS:H	14	0.28
(1,234)	1:66:A:THR:HB	1:87:A:PHE:HB2	2	0.28
(1,232)	1:71:A:ARG:HB2	1:73:A:ALA:H	5	0.28
(1,232)	1:71:A:ARG:HB3	1:73:A:ALA:H	5	0.28
(1,232)	1:71:A:ARG:HB2	1:73:A:ALA:H	13	0.28
(1,232)	1:71:A:ARG:HB3	1:73:A:ALA:H	13	0.28
(1,210)	1:70:A:ASN:HD21	1:71:A:ARG:HA	3	0.28
(1,160)	1:97:A:HIS:HB3	1:150:A:TRP:HZ3	6	0.28
(1,147)	1:64:A:LYS:HD2	1:65:A:ASP:H	5	0.28
(1,147)	1:64:A:LYS:HD3	1:65:A:ASP:H	5	0.28
(1,147)	1:64:A:LYS:HD2	1:65:A:ASP:H	9	0.28
(1,147)	1:64:A:LYS:HD3	1:65:A:ASP:H	9	0.28
(1,146)	1:69:A:LEU:H	1:87:A:PHE:HE1	16	0.28
(1,146)	1:69:A:LEU:H	1:87:A:PHE:HE2	16	0.28
(1,133)	1:65:A:ASP:HA	1:147:A:VAL:HG21	8	0.28
(1,133)	1:65:A:ASP:HA	1:147:A:VAL:HG22	8	0.28
(1,133)	1:65:A:ASP:HA	1:147:A:VAL:HG23	8	0.28
(1,121)	1:41:A:GLN:HE21	1:42:A:LEU:HB2	3	0.28
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB1	1	0.28
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB2	1	0.28
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB3	1	0.28
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB1	1	0.28
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB2	1	0.28
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB3	1	0.28
(1,104)	1:70:A:ASN:HD22	1:71:A:ARG:HD2	9	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,104)	1:70:A:ASN:HD22	1:71:A:ARG:HD3	9	0.28
(1,104)	1:70:A:ASN:HD22	1:71:A:ARG:HD2	17	0.28
(1,104)	1:70:A:ASN:HD22	1:71:A:ARG:HD3	17	0.28
(1,86)	1:91:A:ARG:HG2	1:93:A:GLU:H	11	0.28
(1,86)	1:91:A:ARG:HG3	1:93:A:GLU:H	11	0.28
(1,82)	1:92:A:GLN:HB2	1:94:A:ARG:H	11	0.28
(1,82)	1:92:A:GLN:HB3	1:94:A:ARG:H	11	0.28
(1,70)	1:45:A:ARG:HD2	1:47:A:GLN:H	16	0.28
(1,70)	1:45:A:ARG:HD3	1:47:A:GLN:H	16	0.28
(1,53)	1:87:A:PHE:HA	1:150:A:TRP:HA	2	0.28
(1,53)	1:87:A:PHE:HA	1:150:A:TRP:HA	19	0.28
(1,51)	1:90:A:ALA:H	1:91:A:ARG:HA	16	0.28
(1,50)	1:150:A:TRP:HA	1:151:A:VAL:HB	14	0.28
(1,48)	1:65:A:ASP:HB3	1:68:A:VAL:HA	7	0.28
(1,47)	1:70:A:ASN:H	1:71:A:ARG:HE	9	0.28
(1,28)	1:146:A:ARG:HE	1:147:A:VAL:HG21	5	0.28
(1,28)	1:146:A:ARG:HE	1:147:A:VAL:HG22	5	0.28
(1,28)	1:146:A:ARG:HE	1:147:A:VAL:HG23	5	0.28
(1,28)	1:146:A:ARG:HE	1:147:A:VAL:HG21	19	0.28
(1,28)	1:146:A:ARG:HE	1:147:A:VAL:HG22	19	0.28
(1,28)	1:146:A:ARG:HE	1:147:A:VAL:HG23	19	0.28
(1,1190)	1:146:A:ARG:HB2	1:151:A:VAL:HG11	12	0.27
(1,1190)	1:146:A:ARG:HB2	1:151:A:VAL:HG12	12	0.27
(1,1190)	1:146:A:ARG:HB2	1:151:A:VAL:HG13	12	0.27
(1,1190)	1:146:A:ARG:HB2	1:151:A:VAL:HG21	12	0.27
(1,1190)	1:146:A:ARG:HB2	1:151:A:VAL:HG22	12	0.27
(1,1190)	1:146:A:ARG:HB2	1:151:A:VAL:HG23	12	0.27
(1,1190)	1:146:A:ARG:HB3	1:151:A:VAL:HG11	12	0.27
(1,1190)	1:146:A:ARG:HB3	1:151:A:VAL:HG12	12	0.27
(1,1190)	1:146:A:ARG:HB3	1:151:A:VAL:HG13	12	0.27
(1,1190)	1:146:A:ARG:HB3	1:151:A:VAL:HG21	12	0.27
(1,1190)	1:146:A:ARG:HB3	1:151:A:VAL:HG22	12	0.27
(1,1190)	1:146:A:ARG:HB3	1:151:A:VAL:HG23	12	0.27
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD11	19	0.27
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD12	19	0.27
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD13	19	0.27
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD21	19	0.27
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD22	19	0.27
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD23	19	0.27
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD11	19	0.27
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD12	19	0.27
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD13	19	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD21	19	0.27
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD22	19	0.27
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD23	19	0.27
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD11	11	0.27
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD12	11	0.27
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD13	11	0.27
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD21	11	0.27
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD22	11	0.27
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD23	11	0.27
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG11	2	0.27
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG12	2	0.27
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG13	2	0.27
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG21	2	0.27
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG22	2	0.27
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG23	2	0.27
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD11	4	0.27
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD12	4	0.27
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD13	4	0.27
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD21	4	0.27
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD22	4	0.27
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD23	4	0.27
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG11	12	0.27
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG12	12	0.27
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG13	12	0.27
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG21	12	0.27
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG22	12	0.27
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG23	12	0.27
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG11	12	0.27
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG12	12	0.27
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG13	12	0.27
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG21	12	0.27
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG22	12	0.27
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG23	12	0.27
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG11	12	0.27
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG12	12	0.27
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG13	12	0.27
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG21	12	0.27
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG22	12	0.27
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG23	12	0.27
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG11	14	0.27
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG12	14	0.27
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG13	14	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG21	14	0.27
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG22	14	0.27
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG23	14	0.27
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG11	14	0.27
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG12	14	0.27
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG13	14	0.27
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG21	14	0.27
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG22	14	0.27
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG23	14	0.27
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG11	14	0.27
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG12	14	0.27
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG13	14	0.27
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG21	14	0.27
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG22	14	0.27
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG23	14	0.27
(1,988)	1:66:A:THR:HG21	1:67:A:ALA:H	16	0.27
(1,988)	1:66:A:THR:HG22	1:67:A:ALA:H	16	0.27
(1,988)	1:66:A:THR:HG23	1:67:A:ALA:H	16	0.27
(1,968)	1:73:A:ALA:HB1	1:75:A:GLU:HB2	1	0.27
(1,968)	1:73:A:ALA:HB1	1:75:A:GLU:HB3	1	0.27
(1,968)	1:73:A:ALA:HB2	1:75:A:GLU:HB2	1	0.27
(1,968)	1:73:A:ALA:HB2	1:75:A:GLU:HB3	1	0.27
(1,968)	1:73:A:ALA:HB3	1:75:A:GLU:HB2	1	0.27
(1,968)	1:73:A:ALA:HB3	1:75:A:GLU:HB3	1	0.27
(1,965)	1:56:A:LEU:HG	1:57:A:ALA:HA	1	0.27
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB1	10	0.27
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB2	10	0.27
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB3	10	0.27
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB1	20	0.27
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB2	20	0.27
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB3	20	0.27
(1,861)	1:59:A:THR:HG21	1:62:A:ALA:H	5	0.27
(1,861)	1:59:A:THR:HG22	1:62:A:ALA:H	5	0.27
(1,861)	1:59:A:THR:HG23	1:62:A:ALA:H	5	0.27
(1,861)	1:59:A:THR:HG21	1:62:A:ALA:H	18	0.27
(1,861)	1:59:A:THR:HG22	1:62:A:ALA:H	18	0.27
(1,861)	1:59:A:THR:HG23	1:62:A:ALA:H	18	0.27
(1,793)	1:69:A:LEU:HD11	1:71:A:ARG:H	13	0.27
(1,793)	1:69:A:LEU:HD12	1:71:A:ARG:H	13	0.27
(1,793)	1:69:A:LEU:HD13	1:71:A:ARG:H	13	0.27
(1,793)	1:69:A:LEU:HD11	1:71:A:ARG:H	14	0.27
(1,793)	1:69:A:LEU:HD12	1:71:A:ARG:H	14	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,793)	1:69:A:LEU:HD13	1:71:A:ARG:H	14	0.27
(1,742)	1:88:A:LEU:HB2	1:93:A:GLU:HG2	10	0.27
(1,742)	1:88:A:LEU:HB2	1:93:A:GLU:HG3	10	0.27
(1,742)	1:88:A:LEU:HB3	1:93:A:GLU:HG2	10	0.27
(1,742)	1:88:A:LEU:HB3	1:93:A:GLU:HG3	10	0.27
(1,742)	1:88:A:LEU:HB2	1:93:A:GLU:HG2	20	0.27
(1,742)	1:88:A:LEU:HB2	1:93:A:GLU:HG3	20	0.27
(1,742)	1:88:A:LEU:HB3	1:93:A:GLU:HG2	20	0.27
(1,742)	1:88:A:LEU:HB3	1:93:A:GLU:HG3	20	0.27
(1,657)	1:59:A:THR:HA	1:62:A:ALA:H	13	0.27
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG21	3	0.27
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG22	3	0.27
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG23	3	0.27
(1,635)	1:82:A:VAL:HB	1:83:A:ARG:HA	4	0.27
(1,593)	1:79:A:GLN:HG3	1:111:A:ALA:HA	12	0.27
(1,548)	1:67:A:ALA:HB1	1:68:A:VAL:HA	19	0.27
(1,548)	1:67:A:ALA:HB2	1:68:A:VAL:HA	19	0.27
(1,548)	1:67:A:ALA:HB3	1:68:A:VAL:HA	19	0.27
(1,521)	1:98:A:ALA:HA	1:103:A:LEU:H	11	0.27
(1,521)	1:98:A:ALA:HA	1:103:A:LEU:H	14	0.27
(1,509)	1:43:A:ILE:HD11	1:53:A:LEU:H	15	0.27
(1,509)	1:43:A:ILE:HD12	1:53:A:LEU:H	15	0.27
(1,509)	1:43:A:ILE:HD13	1:53:A:LEU:H	15	0.27
(1,509)	1:43:A:ILE:HD11	1:53:A:LEU:H	16	0.27
(1,509)	1:43:A:ILE:HD12	1:53:A:LEU:H	16	0.27
(1,509)	1:43:A:ILE:HD13	1:53:A:LEU:H	16	0.27
(1,500)	1:43:A:ILE:HG21	1:47:A:GLN:H	16	0.27
(1,500)	1:43:A:ILE:HG22	1:47:A:GLN:H	16	0.27
(1,500)	1:43:A:ILE:HG23	1:47:A:GLN:H	16	0.27
(1,442)	1:141:A:GLU:HB2	1:145:A:GLU:H	13	0.27
(1,442)	1:141:A:GLU:HB3	1:145:A:GLU:H	13	0.27
(1,440)	1:65:A:ASP:HA	1:147:A:VAL:HG11	3	0.27
(1,440)	1:65:A:ASP:HA	1:147:A:VAL:HG12	3	0.27
(1,440)	1:65:A:ASP:HA	1:147:A:VAL:HG13	3	0.27
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD21	5	0.27
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD22	5	0.27
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD23	5	0.27
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD21	5	0.27
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD22	5	0.27
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD23	5	0.27
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD21	5	0.27
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD22	5	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD23	5	0.27
(1,425)	1:42:A:LEU:HA	1:56:A:LEU:HG	2	0.27
(1,394)	1:39:A:ARG:HA	1:41:A:GLN:HG3	17	0.27
(1,369)	1:44:A:GLU:HG2	1:45:A:ARG:H	15	0.27
(1,369)	1:44:A:GLU:HG3	1:45:A:ARG:H	15	0.27
(1,357)	1:61:A:LEU:HD11	1:64:A:LYS:H	11	0.27
(1,357)	1:61:A:LEU:HD12	1:64:A:LYS:H	11	0.27
(1,357)	1:61:A:LEU:HD13	1:64:A:LYS:H	11	0.27
(1,332)	1:47:A:GLN:H	1:53:A:LEU:H	6	0.27
(1,322)	1:60:A:ALA:H	1:65:A:ASP:HB2	16	0.27
(1,319)	1:66:A:THR:HG21	1:71:A:ARG:H	12	0.27
(1,319)	1:66:A:THR:HG22	1:71:A:ARG:H	12	0.27
(1,319)	1:66:A:THR:HG23	1:71:A:ARG:H	12	0.27
(1,301)	1:88:A:LEU:HA	1:95:A:LEU:HB2	1	0.27
(1,301)	1:88:A:LEU:HA	1:95:A:LEU:HB3	1	0.27
(1,291)	1:97:A:HIS:H	1:97:A:HIS:HD2	10	0.27
(1,257)	1:104:A:THR:H	1:106:A:ALA:H	15	0.27
(1,248)	1:61:A:LEU:HD21	1:64:A:LYS:H	20	0.27
(1,248)	1:61:A:LEU:HD22	1:64:A:LYS:H	20	0.27
(1,248)	1:61:A:LEU:HD23	1:64:A:LYS:H	20	0.27
(1,247)	1:74:A:ASN:H	1:75:A:GLU:HG2	19	0.27
(1,247)	1:74:A:ASN:H	1:75:A:GLU:HG3	19	0.27
(1,234)	1:66:A:THR:HB	1:87:A:PHE:HB2	5	0.27
(1,234)	1:66:A:THR:HB	1:87:A:PHE:HB2	17	0.27
(1,232)	1:71:A:ARG:HB2	1:73:A:ALA:H	14	0.27
(1,232)	1:71:A:ARG:HB3	1:73:A:ALA:H	14	0.27
(1,232)	1:71:A:ARG:HB2	1:73:A:ALA:H	17	0.27
(1,232)	1:71:A:ARG:HB3	1:73:A:ALA:H	17	0.27
(1,231)	1:95:A:LEU:HD21	1:96:A:ALA:H	9	0.27
(1,231)	1:95:A:LEU:HD22	1:96:A:ALA:H	9	0.27
(1,231)	1:95:A:LEU:HD23	1:96:A:ALA:H	9	0.27
(1,216)	1:60:A:ALA:H	1:63:A:ARG:HD2	6	0.27
(1,216)	1:60:A:ALA:H	1:63:A:ARG:HD3	6	0.27
(1,192)	1:40:A:ALA:H	1:41:A:GLN:HG2	9	0.27
(1,125)	1:94:A:ARG:HH21	1:104:A:THR:HB	11	0.27
(1,125)	1:94:A:ARG:HH22	1:104:A:THR:HB	11	0.27
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG21	2	0.27
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG22	2	0.27
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG23	2	0.27
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG21	14	0.27
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG22	14	0.27
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG23	14	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,83)	1:61:A:LEU:H	1:65:A:ASP:HB2	2	0.27
(1,83)	1:61:A:LEU:H	1:65:A:ASP:HB2	17	0.27
(1,78)	1:87:A:PHE:HA	1:151:A:VAL:HG11	5	0.27
(1,78)	1:87:A:PHE:HA	1:151:A:VAL:HG12	5	0.27
(1,78)	1:87:A:PHE:HA	1:151:A:VAL:HG13	5	0.27
(1,66)	1:152:A:GLU:HA	1:154:A:GLU:H	6	0.27
(1,66)	1:152:A:GLU:HA	1:154:A:GLU:H	9	0.27
(1,53)	1:87:A:PHE:HA	1:150:A:TRP:HA	16	0.27
(1,51)	1:90:A:ALA:H	1:91:A:ARG:HA	15	0.27
(1,50)	1:150:A:TRP:HA	1:151:A:VAL:HB	6	0.27
(1,50)	1:150:A:TRP:HA	1:151:A:VAL:HB	10	0.27
(1,47)	1:70:A:ASN:H	1:71:A:ARG:HE	6	0.27
(1,47)	1:70:A:ASN:H	1:71:A:ARG:HE	10	0.27
(1,43)	1:83:A:ARG:HA	1:155:A:LEU:HA	11	0.27
(1,26)	1:144:A:ASP:HB2	1:145:A:GLU:HG2	1	0.27
(1,26)	1:144:A:ASP:HB2	1:145:A:GLU:HG3	1	0.27
(1,26)	1:144:A:ASP:HB3	1:145:A:GLU:HG2	1	0.27
(1,26)	1:144:A:ASP:HB3	1:145:A:GLU:HG3	1	0.27
(1,24)	1:69:A:LEU:HB2	1:70:A:ASN:HB3	11	0.27
(1,24)	1:69:A:LEU:HB3	1:70:A:ASN:HB3	11	0.27
(1,19)	1:87:A:PHE:HA	1:96:A:ALA:H	16	0.27
(1,7)	1:97:A:HIS:HA	1:150:A:TRP:HZ3	5	0.27
(1,1095)	1:68:A:VAL:HG11	1:71:A:ARG:HD2	18	0.26
(1,1095)	1:68:A:VAL:HG11	1:71:A:ARG:HD3	18	0.26
(1,1095)	1:68:A:VAL:HG12	1:71:A:ARG:HD2	18	0.26
(1,1095)	1:68:A:VAL:HG12	1:71:A:ARG:HD3	18	0.26
(1,1095)	1:68:A:VAL:HG13	1:71:A:ARG:HD2	18	0.26
(1,1095)	1:68:A:VAL:HG13	1:71:A:ARG:HD3	18	0.26
(1,1095)	1:68:A:VAL:HG21	1:71:A:ARG:HD2	18	0.26
(1,1095)	1:68:A:VAL:HG21	1:71:A:ARG:HD3	18	0.26
(1,1095)	1:68:A:VAL:HG22	1:71:A:ARG:HD2	18	0.26
(1,1095)	1:68:A:VAL:HG22	1:71:A:ARG:HD3	18	0.26
(1,1095)	1:68:A:VAL:HG23	1:71:A:ARG:HD2	18	0.26
(1,1095)	1:68:A:VAL:HG23	1:71:A:ARG:HD3	18	0.26
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG11	6	0.26
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG12	6	0.26
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG13	6	0.26
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG21	6	0.26
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG22	6	0.26
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG23	6	0.26
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG11	6	0.26
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG12	6	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG13	6	0.26
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG21	6	0.26
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG22	6	0.26
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG23	6	0.26
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG11	6	0.26
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG12	6	0.26
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG13	6	0.26
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG21	6	0.26
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG22	6	0.26
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG23	6	0.26
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG11	13	0.26
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG12	13	0.26
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG13	13	0.26
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG21	13	0.26
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG22	13	0.26
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG23	13	0.26
(1,1076)	1:46:A:GLY:HA2	1:49:A:ILE:HD11	17	0.26
(1,1076)	1:46:A:GLY:HA2	1:49:A:ILE:HD12	17	0.26
(1,1076)	1:46:A:GLY:HA2	1:49:A:ILE:HD13	17	0.26
(1,1076)	1:46:A:GLY:HA3	1:49:A:ILE:HD11	17	0.26
(1,1076)	1:46:A:GLY:HA3	1:49:A:ILE:HD12	17	0.26
(1,1076)	1:46:A:GLY:HA3	1:49:A:ILE:HD13	17	0.26
(1,1017)	1:64:A:LYS:HD2	1:141:A:GLU:HB2	16	0.26
(1,1017)	1:64:A:LYS:HD2	1:141:A:GLU:HB3	16	0.26
(1,1017)	1:64:A:LYS:HD3	1:141:A:GLU:HB2	16	0.26
(1,1017)	1:64:A:LYS:HD3	1:141:A:GLU:HB3	16	0.26
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB1	7	0.26
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB2	7	0.26
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB3	7	0.26
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB1	7	0.26
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB2	7	0.26
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB3	7	0.26
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB1	7	0.26
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB2	7	0.26
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB3	7	0.26
(1,998)	1:61:A:LEU:HA	1:65:A:ASP:H	3	0.26
(1,998)	1:61:A:LEU:HA	1:65:A:ASP:H	15	0.26
(1,970)	1:138:A:GLY:HA3	1:140:A:THR:HG21	16	0.26
(1,970)	1:138:A:GLY:HA3	1:140:A:THR:HG22	16	0.26
(1,970)	1:138:A:GLY:HA3	1:140:A:THR:HG23	16	0.26
(1,968)	1:73:A:ALA:HB1	1:75:A:GLU:HB2	4	0.26
(1,968)	1:73:A:ALA:HB1	1:75:A:GLU:HB3	4	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,968)	1:73:A:ALA:HB2	1:75:A:GLU:HB2	4	0.26
(1,968)	1:73:A:ALA:HB2	1:75:A:GLU:HB3	4	0.26
(1,968)	1:73:A:ALA:HB3	1:75:A:GLU:HB2	4	0.26
(1,968)	1:73:A:ALA:HB3	1:75:A:GLU:HB3	4	0.26
(1,967)	1:74:A:ASN:HA	1:74:A:ASN:HD22	5	0.26
(1,967)	1:74:A:ASN:HA	1:74:A:ASN:HD22	15	0.26
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG21	1	0.26
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG22	1	0.26
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG23	1	0.26
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG21	5	0.26
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG22	5	0.26
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG23	5	0.26
(1,882)	1:130:A:LEU:HD11	1:131:A:GLY:H	8	0.26
(1,882)	1:130:A:LEU:HD12	1:131:A:GLY:H	8	0.26
(1,882)	1:130:A:LEU:HD13	1:131:A:GLY:H	8	0.26
(1,882)	1:130:A:LEU:HD21	1:131:A:GLY:H	8	0.26
(1,882)	1:130:A:LEU:HD22	1:131:A:GLY:H	8	0.26
(1,882)	1:130:A:LEU:HD23	1:131:A:GLY:H	8	0.26
(1,864)	1:90:A:ALA:HB1	1:149:A:GLY:H	3	0.26
(1,864)	1:90:A:ALA:HB2	1:149:A:GLY:H	3	0.26
(1,864)	1:90:A:ALA:HB3	1:149:A:GLY:H	3	0.26
(1,864)	1:90:A:ALA:HB1	1:149:A:GLY:H	18	0.26
(1,864)	1:90:A:ALA:HB2	1:149:A:GLY:H	18	0.26
(1,864)	1:90:A:ALA:HB3	1:149:A:GLY:H	18	0.26
(1,861)	1:59:A:THR:HG21	1:62:A:ALA:H	3	0.26
(1,861)	1:59:A:THR:HG22	1:62:A:ALA:H	3	0.26
(1,861)	1:59:A:THR:HG23	1:62:A:ALA:H	3	0.26
(1,861)	1:59:A:THR:HG21	1:62:A:ALA:H	6	0.26
(1,861)	1:59:A:THR:HG22	1:62:A:ALA:H	6	0.26
(1,861)	1:59:A:THR:HG23	1:62:A:ALA:H	6	0.26
(1,861)	1:59:A:THR:HG21	1:62:A:ALA:H	9	0.26
(1,861)	1:59:A:THR:HG22	1:62:A:ALA:H	9	0.26
(1,861)	1:59:A:THR:HG23	1:62:A:ALA:H	9	0.26
(1,843)	1:71:A:ARG:H	1:72:A:ILE:HG21	11	0.26
(1,843)	1:71:A:ARG:H	1:72:A:ILE:HG22	11	0.26
(1,843)	1:71:A:ARG:H	1:72:A:ILE:HG23	11	0.26
(1,811)	1:74:A:ASN:H	1:77:A:LEU:HB2	2	0.26
(1,811)	1:74:A:ASN:H	1:77:A:LEU:HB3	2	0.26
(1,811)	1:74:A:ASN:H	1:77:A:LEU:HB2	14	0.26
(1,811)	1:74:A:ASN:H	1:77:A:LEU:HB3	14	0.26
(1,797)	1:51:A:GLU:HB2	1:52:A:GLN:HE22	12	0.26
(1,797)	1:51:A:GLU:HB3	1:52:A:GLN:HE22	12	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,793)	1:69:A:LEU:HD11	1:71:A:ARG:H	3	0.26
(1,793)	1:69:A:LEU:HD12	1:71:A:ARG:H	3	0.26
(1,793)	1:69:A:LEU:HD13	1:71:A:ARG:H	3	0.26
(1,769)	1:68:A:VAL:H	1:72:A:ILE:HD11	12	0.26
(1,769)	1:68:A:VAL:H	1:72:A:ILE:HD12	12	0.26
(1,769)	1:68:A:VAL:H	1:72:A:ILE:HD13	12	0.26
(1,766)	1:59:A:THR:HA	1:62:A:ALA:HB1	18	0.26
(1,766)	1:59:A:THR:HA	1:62:A:ALA:HB2	18	0.26
(1,766)	1:59:A:THR:HA	1:62:A:ALA:HB3	18	0.26
(1,752)	1:140:A:THR:HG21	1:141:A:GLU:H	11	0.26
(1,752)	1:140:A:THR:HG22	1:141:A:GLU:H	11	0.26
(1,752)	1:140:A:THR:HG23	1:141:A:GLU:H	11	0.26
(1,733)	1:88:A:LEU:HD11	1:94:A:ARG:HA	19	0.26
(1,733)	1:88:A:LEU:HD12	1:94:A:ARG:HA	19	0.26
(1,733)	1:88:A:LEU:HD13	1:94:A:ARG:HA	19	0.26
(1,695)	1:42:A:LEU:HA	1:56:A:LEU:HB2	20	0.26
(1,695)	1:42:A:LEU:HA	1:56:A:LEU:HB3	20	0.26
(1,666)	1:47:A:GLN:HB2	1:52:A:GLN:HG2	8	0.26
(1,666)	1:47:A:GLN:HB2	1:52:A:GLN:HG3	8	0.26
(1,666)	1:47:A:GLN:HB3	1:52:A:GLN:HG2	8	0.26
(1,666)	1:47:A:GLN:HB3	1:52:A:GLN:HG3	8	0.26
(1,657)	1:59:A:THR:HA	1:62:A:ALA:H	3	0.26
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG11	6	0.26
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG12	6	0.26
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG13	6	0.26
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG21	6	0.26
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG22	6	0.26
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG23	6	0.26
(1,608)	1:57:A:ALA:HA	1:69:A:LEU:HD11	7	0.26
(1,608)	1:57:A:ALA:HA	1:69:A:LEU:HD12	7	0.26
(1,608)	1:57:A:ALA:HA	1:69:A:LEU:HD13	7	0.26
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD21	12	0.26
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD22	12	0.26
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD23	12	0.26
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD21	12	0.26
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD22	12	0.26
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD23	12	0.26
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD21	12	0.26
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD22	12	0.26
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD23	12	0.26
(1,592)	1:57:A:ALA:HA	1:158:A:HIS:HD2	15	0.26
(1,548)	1:67:A:ALA:HB1	1:68:A:VAL:HA	2	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,548)	1:67:A:ALA:HB2	1:68:A:VAL:HA	2	0.26
(1,548)	1:67:A:ALA:HB3	1:68:A:VAL:HA	2	0.26
(1,548)	1:67:A:ALA:HB1	1:68:A:VAL:HA	4	0.26
(1,548)	1:67:A:ALA:HB2	1:68:A:VAL:HA	4	0.26
(1,548)	1:67:A:ALA:HB3	1:68:A:VAL:HA	4	0.26
(1,461)	1:43:A:ILE:HD11	1:47:A:GLN:H	15	0.26
(1,461)	1:43:A:ILE:HD12	1:47:A:GLN:H	15	0.26
(1,461)	1:43:A:ILE:HD13	1:47:A:GLN:H	15	0.26
(1,447)	1:162:A:LEU:HD11	1:163:A:ARG:HH11	4	0.26
(1,447)	1:162:A:LEU:HD11	1:163:A:ARG:HH12	4	0.26
(1,447)	1:162:A:LEU:HD12	1:163:A:ARG:HH11	4	0.26
(1,447)	1:162:A:LEU:HD12	1:163:A:ARG:HH12	4	0.26
(1,447)	1:162:A:LEU:HD13	1:163:A:ARG:HH11	4	0.26
(1,447)	1:162:A:LEU:HD13	1:163:A:ARG:HH12	4	0.26
(1,447)	1:162:A:LEU:HD21	1:163:A:ARG:HH11	4	0.26
(1,447)	1:162:A:LEU:HD21	1:163:A:ARG:HH12	4	0.26
(1,447)	1:162:A:LEU:HD22	1:163:A:ARG:HH11	4	0.26
(1,447)	1:162:A:LEU:HD22	1:163:A:ARG:HH12	4	0.26
(1,447)	1:162:A:LEU:HD23	1:163:A:ARG:HH11	4	0.26
(1,447)	1:162:A:LEU:HD23	1:163:A:ARG:HH12	4	0.26
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD21	14	0.26
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD22	14	0.26
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD23	14	0.26
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD21	14	0.26
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD22	14	0.26
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD23	14	0.26
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD21	14	0.26
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD22	14	0.26
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD23	14	0.26
(1,369)	1:44:A:GLU:HG2	1:45:A:ARG:H	7	0.26
(1,369)	1:44:A:GLU:HG3	1:45:A:ARG:H	7	0.26
(1,357)	1:61:A:LEU:HD11	1:64:A:LYS:H	3	0.26
(1,357)	1:61:A:LEU:HD12	1:64:A:LYS:H	3	0.26
(1,357)	1:61:A:LEU:HD13	1:64:A:LYS:H	3	0.26
(1,322)	1:60:A:ALA:H	1:65:A:ASP:HB2	6	0.26
(1,322)	1:60:A:ALA:H	1:65:A:ASP:HB2	10	0.26
(1,319)	1:66:A:THR:HG21	1:71:A:ARG:H	2	0.26
(1,319)	1:66:A:THR:HG22	1:71:A:ARG:H	2	0.26
(1,319)	1:66:A:THR:HG23	1:71:A:ARG:H	2	0.26
(1,316)	1:41:A:GLN:HE21	1:42:A:LEU:H	20	0.26
(1,301)	1:88:A:LEU:HA	1:95:A:LEU:HB2	16	0.26
(1,301)	1:88:A:LEU:HA	1:95:A:LEU:HB3	16	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,296)	1:80:A:PRO:HG2	1:163:A:ARG:HH11	17	0.26
(1,296)	1:80:A:PRO:HG2	1:163:A:ARG:HH12	17	0.26
(1,296)	1:80:A:PRO:HG3	1:163:A:ARG:HH11	17	0.26
(1,296)	1:80:A:PRO:HG3	1:163:A:ARG:HH12	17	0.26
(1,270)	1:82:A:VAL:H	1:155:A:LEU:HB2	20	0.26
(1,270)	1:82:A:VAL:H	1:155:A:LEU:HB3	20	0.26
(1,257)	1:104:A:THR:H	1:106:A:ALA:H	1	0.26
(1,251)	1:88:A:LEU:HG	1:150:A:TRP:H	17	0.26
(1,234)	1:66:A:THR:HB	1:87:A:PHE:HB2	13	0.26
(1,232)	1:71:A:ARG:HB2	1:73:A:ALA:H	1	0.26
(1,232)	1:71:A:ARG:HB3	1:73:A:ALA:H	1	0.26
(1,216)	1:60:A:ALA:H	1:63:A:ARG:HD2	10	0.26
(1,216)	1:60:A:ALA:H	1:63:A:ARG:HD3	10	0.26
(1,216)	1:60:A:ALA:H	1:63:A:ARG:HD2	14	0.26
(1,216)	1:60:A:ALA:H	1:63:A:ARG:HD3	14	0.26
(1,210)	1:70:A:ASN:HD21	1:71:A:ARG:HA	13	0.26
(1,205)	1:119:A:GLU:HB2	1:121:A:ASP:HB2	15	0.26
(1,205)	1:119:A:GLU:HB2	1:121:A:ASP:HB3	15	0.26
(1,205)	1:119:A:GLU:HB3	1:121:A:ASP:HB2	15	0.26
(1,205)	1:119:A:GLU:HB3	1:121:A:ASP:HB3	15	0.26
(1,200)	1:49:A:ILE:HD11	1:50:A:ALA:H	13	0.26
(1,200)	1:49:A:ILE:HD12	1:50:A:ALA:H	13	0.26
(1,200)	1:49:A:ILE:HD13	1:50:A:ALA:H	13	0.26
(1,145)	1:90:A:ALA:HA	1:149:A:GLY:H	17	0.26
(1,112)	1:88:A:LEU:HB2	1:150:A:TRP:HB3	7	0.26
(1,112)	1:88:A:LEU:HB3	1:150:A:TRP:HB3	7	0.26
(1,108)	1:39:A:ARG:HD2	1:43:A:ILE:HG21	8	0.26
(1,108)	1:39:A:ARG:HD2	1:43:A:ILE:HG22	8	0.26
(1,108)	1:39:A:ARG:HD2	1:43:A:ILE:HG23	8	0.26
(1,108)	1:39:A:ARG:HD3	1:43:A:ILE:HG21	8	0.26
(1,108)	1:39:A:ARG:HD3	1:43:A:ILE:HG22	8	0.26
(1,108)	1:39:A:ARG:HD3	1:43:A:ILE:HG23	8	0.26
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG21	1	0.26
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG22	1	0.26
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG23	1	0.26
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG21	6	0.26
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG22	6	0.26
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG23	6	0.26
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG21	10	0.26
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG22	10	0.26
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG23	10	0.26
(1,70)	1:45:A:ARG:HD2	1:47:A:GLN:H	11	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,70)	1:45:A:ARG:HD3	1:47:A:GLN:H	11	0.26
(1,68)	1:162:A:LEU:HA	1:163:A:ARG:HH11	9	0.26
(1,68)	1:162:A:LEU:HA	1:163:A:ARG:HH12	9	0.26
(1,66)	1:152:A:GLU:HA	1:154:A:GLU:H	1	0.26
(1,53)	1:87:A:PHE:HA	1:150:A:TRP:HA	6	0.26
(1,47)	1:70:A:ASN:H	1:71:A:ARG:HE	4	0.26
(1,40)	1:74:A:ASN:HA	1:98:A:ALA:HA	5	0.26
(1,28)	1:146:A:ARG:HE	1:147:A:VAL:HG21	12	0.26
(1,28)	1:146:A:ARG:HE	1:147:A:VAL:HG22	12	0.26
(1,28)	1:146:A:ARG:HE	1:147:A:VAL:HG23	12	0.26
(1,24)	1:69:A:LEU:HB2	1:70:A:ASN:HB3	14	0.26
(1,24)	1:69:A:LEU:HB3	1:70:A:ASN:HB3	14	0.26
(1,7)	1:97:A:HIS:HA	1:150:A:TRP:HZ3	4	0.26
(1,7)	1:97:A:HIS:HA	1:150:A:TRP:HZ3	14	0.26
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD11	2	0.25
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD12	2	0.25
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD13	2	0.25
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD21	2	0.25
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD22	2	0.25
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD23	2	0.25
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD11	8	0.25
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD12	8	0.25
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD13	8	0.25
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD21	8	0.25
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD22	8	0.25
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD23	8	0.25
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD11	15	0.25
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD12	15	0.25
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD13	15	0.25
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD21	15	0.25
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD22	15	0.25
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD23	15	0.25
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD11	20	0.25
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD12	20	0.25
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD13	20	0.25
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD21	20	0.25
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD22	20	0.25
(1,1105)	1:74:A:ASN:H	1:77:A:LEU:HD23	20	0.25
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG11	3	0.25
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG12	3	0.25
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG13	3	0.25
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG21	3	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG22	3	0.25
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG23	3	0.25
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG11	3	0.25
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG12	3	0.25
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG13	3	0.25
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG21	3	0.25
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG22	3	0.25
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG23	3	0.25
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG11	3	0.25
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG12	3	0.25
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG13	3	0.25
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG21	3	0.25
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG22	3	0.25
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG23	3	0.25
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG11	13	0.25
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG12	13	0.25
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG13	13	0.25
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG21	13	0.25
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG22	13	0.25
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG23	13	0.25
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG11	13	0.25
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG12	13	0.25
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG13	13	0.25
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG21	13	0.25
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG22	13	0.25
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG23	13	0.25
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG11	13	0.25
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG12	13	0.25
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG13	13	0.25
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG21	13	0.25
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG22	13	0.25
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG23	13	0.25
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG11	19	0.25
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG12	19	0.25
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG13	19	0.25
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG21	19	0.25
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG22	19	0.25
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG23	19	0.25
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG11	19	0.25
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG12	19	0.25
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG13	19	0.25
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG21	19	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG22	19	0.25
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG23	19	0.25
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG11	19	0.25
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG12	19	0.25
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG13	19	0.25
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG21	19	0.25
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG22	19	0.25
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG23	19	0.25
(1,1054)	1:61:A:LEU:HB2	1:65:A:ASP:H	8	0.25
(1,1054)	1:61:A:LEU:HB3	1:65:A:ASP:H	8	0.25
(1,1045)	1:66:A:THR:HG21	1:147:A:VAL:HG11	12	0.25
(1,1045)	1:66:A:THR:HG21	1:147:A:VAL:HG12	12	0.25
(1,1045)	1:66:A:THR:HG21	1:147:A:VAL:HG13	12	0.25
(1,1045)	1:66:A:THR:HG22	1:147:A:VAL:HG11	12	0.25
(1,1045)	1:66:A:THR:HG22	1:147:A:VAL:HG12	12	0.25
(1,1045)	1:66:A:THR:HG22	1:147:A:VAL:HG13	12	0.25
(1,1045)	1:66:A:THR:HG23	1:147:A:VAL:HG11	12	0.25
(1,1045)	1:66:A:THR:HG23	1:147:A:VAL:HG12	12	0.25
(1,1045)	1:66:A:THR:HG23	1:147:A:VAL:HG13	12	0.25
(1,1018)	1:70:A:ASN:HD22	1:71:A:ARG:HA	1	0.25
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB1	1	0.25
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB2	1	0.25
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB3	1	0.25
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB1	1	0.25
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB2	1	0.25
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB3	1	0.25
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB1	1	0.25
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB2	1	0.25
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB3	1	0.25
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB1	3	0.25
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB2	3	0.25
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB3	3	0.25
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB1	3	0.25
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB2	3	0.25
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB3	3	0.25
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB1	3	0.25
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB2	3	0.25
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB3	3	0.25
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB1	17	0.25
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB2	17	0.25
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB3	17	0.25
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB1	17	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB2	17	0.25
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB3	17	0.25
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB1	17	0.25
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB2	17	0.25
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB3	17	0.25
(1,998)	1:61:A:LEU:HA	1:65:A:ASP:H	9	0.25
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD11	5	0.25
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD12	5	0.25
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD13	5	0.25
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD21	5	0.25
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD22	5	0.25
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD23	5	0.25
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD11	5	0.25
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD12	5	0.25
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD13	5	0.25
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD21	5	0.25
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD22	5	0.25
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD23	5	0.25
(1,971)	1:60:A:ALA:HA	1:65:A:ASP:HB3	5	0.25
(1,967)	1:74:A:ASN:HA	1:74:A:ASN:HD22	4	0.25
(1,965)	1:56:A:LEU:HG	1:57:A:ALA:HA	2	0.25
(1,965)	1:56:A:LEU:HG	1:57:A:ALA:HA	10	0.25
(1,959)	1:79:A:GLN:HB2	1:111:A:ALA:HA	4	0.25
(1,861)	1:59:A:THR:HG21	1:62:A:ALA:H	7	0.25
(1,861)	1:59:A:THR:HG22	1:62:A:ALA:H	7	0.25
(1,861)	1:59:A:THR:HG23	1:62:A:ALA:H	7	0.25
(1,861)	1:59:A:THR:HG21	1:62:A:ALA:H	8	0.25
(1,861)	1:59:A:THR:HG22	1:62:A:ALA:H	8	0.25
(1,861)	1:59:A:THR:HG23	1:62:A:ALA:H	8	0.25
(1,861)	1:59:A:THR:HG21	1:62:A:ALA:H	13	0.25
(1,861)	1:59:A:THR:HG22	1:62:A:ALA:H	13	0.25
(1,861)	1:59:A:THR:HG23	1:62:A:ALA:H	13	0.25
(1,861)	1:59:A:THR:HG21	1:62:A:ALA:H	15	0.25
(1,861)	1:59:A:THR:HG22	1:62:A:ALA:H	15	0.25
(1,861)	1:59:A:THR:HG23	1:62:A:ALA:H	15	0.25
(1,843)	1:71:A:ARG:H	1:72:A:ILE:HG21	3	0.25
(1,843)	1:71:A:ARG:H	1:72:A:ILE:HG22	3	0.25
(1,843)	1:71:A:ARG:H	1:72:A:ILE:HG23	3	0.25
(1,830)	1:56:A:LEU:H	1:57:A:ALA:HA	15	0.25
(1,811)	1:74:A:ASN:H	1:77:A:LEU:HB2	4	0.25
(1,811)	1:74:A:ASN:H	1:77:A:LEU:HB3	4	0.25
(1,805)	1:41:A:GLN:HE21	1:42:A:LEU:HG	3	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,793)	1:69:A:LEU:HD11	1:71:A:ARG:H	4	0.25
(1,793)	1:69:A:LEU:HD12	1:71:A:ARG:H	4	0.25
(1,793)	1:69:A:LEU:HD13	1:71:A:ARG:H	4	0.25
(1,793)	1:69:A:LEU:HD11	1:71:A:ARG:H	11	0.25
(1,793)	1:69:A:LEU:HD12	1:71:A:ARG:H	11	0.25
(1,793)	1:69:A:LEU:HD13	1:71:A:ARG:H	11	0.25
(1,790)	1:74:A:ASN:HD21	1:98:A:ALA:HB1	12	0.25
(1,790)	1:74:A:ASN:HD21	1:98:A:ALA:HB2	12	0.25
(1,790)	1:74:A:ASN:HD21	1:98:A:ALA:HB3	12	0.25
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD11	11	0.25
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD12	11	0.25
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD13	11	0.25
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD21	11	0.25
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD22	11	0.25
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD23	11	0.25
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD11	11	0.25
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD12	11	0.25
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD13	11	0.25
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD21	11	0.25
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD22	11	0.25
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD23	11	0.25
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD11	11	0.25
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD12	11	0.25
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD13	11	0.25
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD21	11	0.25
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD22	11	0.25
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD23	11	0.25
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD11	5	0.25
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD12	5	0.25
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD13	5	0.25
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD21	5	0.25
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD22	5	0.25
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD23	5	0.25
(1,657)	1:59:A:THR:HA	1:62:A:ALA:H	1	0.25
(1,657)	1:59:A:THR:HA	1:62:A:ALA:H	12	0.25
(1,657)	1:59:A:THR:HA	1:62:A:ALA:H	15	0.25
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG11	5	0.25
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG12	5	0.25
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG13	5	0.25
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG21	5	0.25
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG22	5	0.25
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG23	5	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG11	12	0.25
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG12	12	0.25
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG13	12	0.25
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG21	12	0.25
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG22	12	0.25
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG23	12	0.25
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG11	13	0.25
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG12	13	0.25
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG13	13	0.25
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG21	13	0.25
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG22	13	0.25
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG23	13	0.25
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG21	7	0.25
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG22	7	0.25
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG23	7	0.25
(1,635)	1:82:A:VAL:HB	1:83:A:ARG:HA	6	0.25
(1,635)	1:82:A:VAL:HB	1:83:A:ARG:HA	8	0.25
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG21	17	0.25
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG22	17	0.25
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG23	17	0.25
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG21	17	0.25
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG22	17	0.25
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG23	17	0.25
(1,608)	1:57:A:ALA:HA	1:69:A:LEU:HD11	20	0.25
(1,608)	1:57:A:ALA:HA	1:69:A:LEU:HD12	20	0.25
(1,608)	1:57:A:ALA:HA	1:69:A:LEU:HD13	20	0.25
(1,548)	1:67:A:ALA:HB1	1:68:A:VAL:HA	7	0.25
(1,548)	1:67:A:ALA:HB2	1:68:A:VAL:HA	7	0.25
(1,548)	1:67:A:ALA:HB3	1:68:A:VAL:HA	7	0.25
(1,548)	1:67:A:ALA:HB1	1:68:A:VAL:HA	14	0.25
(1,548)	1:67:A:ALA:HB2	1:68:A:VAL:HA	14	0.25
(1,548)	1:67:A:ALA:HB3	1:68:A:VAL:HA	14	0.25
(1,547)	1:61:A:LEU:HD21	1:64:A:LYS:HA	1	0.25
(1,547)	1:61:A:LEU:HD22	1:64:A:LYS:HA	1	0.25
(1,547)	1:61:A:LEU:HD23	1:64:A:LYS:HA	1	0.25
(1,524)	1:141:A:GLU:HA	1:141:A:GLU:HG2	20	0.25
(1,524)	1:141:A:GLU:HA	1:141:A:GLU:HG3	20	0.25
(1,521)	1:98:A:ALA:HA	1:103:A:LEU:H	9	0.25
(1,509)	1:43:A:ILE:HD11	1:53:A:LEU:H	12	0.25
(1,509)	1:43:A:ILE:HD12	1:53:A:LEU:H	12	0.25
(1,509)	1:43:A:ILE:HD13	1:53:A:LEU:H	12	0.25
(1,506)	1:60:A:ALA:HB1	1:65:A:ASP:HB2	9	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,506)	1:60:A:ALA:HB2	1:65:A:ASP:HB2	9	0.25
(1,506)	1:60:A:ALA:HB3	1:65:A:ASP:HB2	9	0.25
(1,500)	1:43:A:ILE:HG21	1:47:A:GLN:H	4	0.25
(1,500)	1:43:A:ILE:HG22	1:47:A:GLN:H	4	0.25
(1,500)	1:43:A:ILE:HG23	1:47:A:GLN:H	4	0.25
(1,481)	1:43:A:ILE:HA	1:45:A:ARG:HB2	17	0.25
(1,481)	1:43:A:ILE:HA	1:45:A:ARG:HB3	17	0.25
(1,394)	1:39:A:ARG:HA	1:41:A:GLN:HG3	3	0.25
(1,394)	1:39:A:ARG:HA	1:41:A:GLN:HG3	4	0.25
(1,394)	1:39:A:ARG:HA	1:41:A:GLN:HG3	9	0.25
(1,390)	1:95:A:LEU:HA	1:120:A:LEU:HD11	6	0.25
(1,390)	1:95:A:LEU:HA	1:120:A:LEU:HD12	6	0.25
(1,390)	1:95:A:LEU:HA	1:120:A:LEU:HD13	6	0.25
(1,390)	1:95:A:LEU:HA	1:120:A:LEU:HD21	6	0.25
(1,390)	1:95:A:LEU:HA	1:120:A:LEU:HD22	6	0.25
(1,390)	1:95:A:LEU:HA	1:120:A:LEU:HD23	6	0.25
(1,377)	1:66:A:THR:HG21	1:70:A:ASN:HB3	16	0.25
(1,377)	1:66:A:THR:HG22	1:70:A:ASN:HB3	16	0.25
(1,377)	1:66:A:THR:HG23	1:70:A:ASN:HB3	16	0.25
(1,359)	1:64:A:LYS:HB2	1:141:A:GLU:H	7	0.25
(1,359)	1:64:A:LYS:HB3	1:141:A:GLU:H	7	0.25
(1,357)	1:61:A:LEU:HD11	1:64:A:LYS:H	6	0.25
(1,357)	1:61:A:LEU:HD12	1:64:A:LYS:H	6	0.25
(1,357)	1:61:A:LEU:HD13	1:64:A:LYS:H	6	0.25
(1,357)	1:61:A:LEU:HD11	1:64:A:LYS:H	15	0.25
(1,357)	1:61:A:LEU:HD12	1:64:A:LYS:H	15	0.25
(1,357)	1:61:A:LEU:HD13	1:64:A:LYS:H	15	0.25
(1,357)	1:61:A:LEU:HD11	1:64:A:LYS:H	16	0.25
(1,357)	1:61:A:LEU:HD12	1:64:A:LYS:H	16	0.25
(1,357)	1:61:A:LEU:HD13	1:64:A:LYS:H	16	0.25
(1,354)	1:76:A:ALA:HB1	1:79:A:GLN:HE22	18	0.25
(1,354)	1:76:A:ALA:HB2	1:79:A:GLN:HE22	18	0.25
(1,354)	1:76:A:ALA:HB3	1:79:A:GLN:HE22	18	0.25
(1,335)	1:76:A:ALA:HB1	1:78:A:ASP:H	3	0.25
(1,335)	1:76:A:ALA:HB2	1:78:A:ASP:H	3	0.25
(1,335)	1:76:A:ALA:HB3	1:78:A:ASP:H	3	0.25
(1,328)	1:47:A:GLN:HE21	1:52:A:GLN:H	7	0.25
(1,322)	1:60:A:ALA:H	1:65:A:ASP:HB2	4	0.25
(1,321)	1:65:A:ASP:HB3	1:66:A:THR:H	16	0.25
(1,319)	1:66:A:THR:HG21	1:71:A:ARG:H	10	0.25
(1,319)	1:66:A:THR:HG22	1:71:A:ARG:H	10	0.25
(1,319)	1:66:A:THR:HG23	1:71:A:ARG:H	10	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,296)	1:80:A:PRO:HG2	1:163:A:ARG:HH11	19	0.25
(1,296)	1:80:A:PRO:HG2	1:163:A:ARG:HH12	19	0.25
(1,296)	1:80:A:PRO:HG3	1:163:A:ARG:HH11	19	0.25
(1,296)	1:80:A:PRO:HG3	1:163:A:ARG:HH12	19	0.25
(1,234)	1:66:A:THR:HB	1:87:A:PHE:HB2	14	0.25
(1,216)	1:60:A:ALA:H	1:63:A:ARG:HD2	12	0.25
(1,216)	1:60:A:ALA:H	1:63:A:ARG:HD3	12	0.25
(1,154)	1:79:A:GLN:HE21	1:111:A:ALA:HA	17	0.25
(1,147)	1:64:A:LYS:HD2	1:65:A:ASP:H	7	0.25
(1,147)	1:64:A:LYS:HD3	1:65:A:ASP:H	7	0.25
(1,141)	1:97:A:HIS:HB3	1:103:A:LEU:H	16	0.25
(1,133)	1:65:A:ASP:HA	1:147:A:VAL:HG21	14	0.25
(1,133)	1:65:A:ASP:HA	1:147:A:VAL:HG22	14	0.25
(1,133)	1:65:A:ASP:HA	1:147:A:VAL:HG23	14	0.25
(1,125)	1:94:A:ARG:HH21	1:104:A:THR:HB	10	0.25
(1,125)	1:94:A:ARG:HH22	1:104:A:THR:HB	10	0.25
(1,112)	1:88:A:LEU:HB2	1:150:A:TRP:HB3	13	0.25
(1,112)	1:88:A:LEU:HB3	1:150:A:TRP:HB3	13	0.25
(1,97)	1:93:A:GLU:HB2	1:124:A:HIS:H	16	0.25
(1,97)	1:93:A:GLU:HB3	1:124:A:HIS:H	16	0.25
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG21	15	0.25
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG22	15	0.25
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG23	15	0.25
(1,82)	1:92:A:GLN:HB2	1:94:A:ARG:H	14	0.25
(1,82)	1:92:A:GLN:HB3	1:94:A:ARG:H	14	0.25
(1,53)	1:87:A:PHE:HA	1:150:A:TRP:HA	12	0.25
(1,50)	1:150:A:TRP:HA	1:151:A:VAL:HB	13	0.25
(1,48)	1:65:A:ASP:HB3	1:68:A:VAL:HA	4	0.25
(1,47)	1:70:A:ASN:H	1:71:A:ARG:HE	15	0.25
(1,45)	1:94:A:ARG:H	1:125:A:PHE:H	14	0.25
(1,28)	1:146:A:ARG:HE	1:147:A:VAL:HG21	13	0.25
(1,28)	1:146:A:ARG:HE	1:147:A:VAL:HG22	13	0.25
(1,28)	1:146:A:ARG:HE	1:147:A:VAL:HG23	13	0.25
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD11	3	0.24
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD12	3	0.24
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD13	3	0.24
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD21	3	0.24
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD22	3	0.24
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD23	3	0.24
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD11	3	0.24
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD12	3	0.24
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD13	3	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD21	3	0.24
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD22	3	0.24
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD23	3	0.24
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD11	16	0.24
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD12	16	0.24
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD13	16	0.24
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD21	16	0.24
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD22	16	0.24
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD23	16	0.24
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD11	19	0.24
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD12	19	0.24
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD13	19	0.24
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD21	19	0.24
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD22	19	0.24
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD23	19	0.24
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD11	19	0.24
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD12	19	0.24
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD13	19	0.24
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD21	19	0.24
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD22	19	0.24
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD23	19	0.24
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD11	19	0.24
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD12	19	0.24
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD13	19	0.24
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD21	19	0.24
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD22	19	0.24
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD23	19	0.24
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD11	19	0.24
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD12	19	0.24
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD13	19	0.24
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD21	19	0.24
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD22	19	0.24
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD23	19	0.24
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD11	19	0.24
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD12	19	0.24
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD13	19	0.24
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD21	19	0.24
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD22	19	0.24
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD23	19	0.24
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD11	19	0.24
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD12	19	0.24
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD13	19	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD21	19	0.24
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD22	19	0.24
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD23	19	0.24
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG11	1	0.24
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG12	1	0.24
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG13	1	0.24
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG21	1	0.24
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG22	1	0.24
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG23	1	0.24
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG11	12	0.24
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG12	12	0.24
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG13	12	0.24
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG21	12	0.24
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG22	12	0.24
(1,1134)	1:83:A:ARG:H	1:85:A:VAL:HG23	12	0.24
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD11	9	0.24
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD12	9	0.24
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD13	9	0.24
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD21	9	0.24
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD22	9	0.24
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD23	9	0.24
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG11	18	0.24
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG12	18	0.24
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG13	18	0.24
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG21	18	0.24
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG22	18	0.24
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG23	18	0.24
(1,1054)	1:61:A:LEU:HB2	1:65:A:ASP:H	7	0.24
(1,1054)	1:61:A:LEU:HB3	1:65:A:ASP:H	7	0.24
(1,1009)	1:80:A:PRO:HB2	1:164:A:GLY:HA2	5	0.24
(1,1009)	1:80:A:PRO:HB2	1:164:A:GLY:HA3	5	0.24
(1,1009)	1:80:A:PRO:HB3	1:164:A:GLY:HA2	5	0.24
(1,1009)	1:80:A:PRO:HB3	1:164:A:GLY:HA3	5	0.24
(1,1009)	1:80:A:PRO:HB2	1:164:A:GLY:HA2	15	0.24
(1,1009)	1:80:A:PRO:HB2	1:164:A:GLY:HA3	15	0.24
(1,1009)	1:80:A:PRO:HB3	1:164:A:GLY:HA2	15	0.24
(1,1009)	1:80:A:PRO:HB3	1:164:A:GLY:HA3	15	0.24
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB1	5	0.24
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB2	5	0.24
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB3	5	0.24
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB1	5	0.24
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB2	5	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB3	5	0.24
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB1	5	0.24
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB2	5	0.24
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB3	5	0.24
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB1	11	0.24
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB2	11	0.24
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB3	11	0.24
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB1	11	0.24
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB2	11	0.24
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB3	11	0.24
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB1	11	0.24
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB2	11	0.24
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB3	11	0.24
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB1	15	0.24
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB2	15	0.24
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB3	15	0.24
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB1	15	0.24
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB2	15	0.24
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB3	15	0.24
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB1	15	0.24
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB2	15	0.24
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB3	15	0.24
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB1	18	0.24
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB2	18	0.24
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB3	18	0.24
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB1	18	0.24
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB2	18	0.24
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB3	18	0.24
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB1	18	0.24
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB2	18	0.24
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB3	18	0.24
(1,992)	1:63:A:ARG:HA	1:64:A:LYS:HB2	4	0.24
(1,992)	1:63:A:ARG:HA	1:64:A:LYS:HB3	4	0.24
(1,976)	1:137:A:SER:HA	1:140:A:THR:HG21	3	0.24
(1,976)	1:137:A:SER:HA	1:140:A:THR:HG22	3	0.24
(1,976)	1:137:A:SER:HA	1:140:A:THR:HG23	3	0.24
(1,968)	1:73:A:ALA:HB1	1:75:A:GLU:HB2	5	0.24
(1,968)	1:73:A:ALA:HB1	1:75:A:GLU:HB3	5	0.24
(1,968)	1:73:A:ALA:HB2	1:75:A:GLU:HB2	5	0.24
(1,968)	1:73:A:ALA:HB2	1:75:A:GLU:HB3	5	0.24
(1,968)	1:73:A:ALA:HB3	1:75:A:GLU:HB2	5	0.24
(1,968)	1:73:A:ALA:HB3	1:75:A:GLU:HB3	5	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,968)	1:73:A:ALA:HB1	1:75:A:GLU:HB2	17	0.24
(1,968)	1:73:A:ALA:HB1	1:75:A:GLU:HB3	17	0.24
(1,968)	1:73:A:ALA:HB2	1:75:A:GLU:HB2	17	0.24
(1,968)	1:73:A:ALA:HB2	1:75:A:GLU:HB3	17	0.24
(1,968)	1:73:A:ALA:HB3	1:75:A:GLU:HB2	17	0.24
(1,968)	1:73:A:ALA:HB3	1:75:A:GLU:HB3	17	0.24
(1,967)	1:74:A:ASN:HA	1:74:A:ASN:HD22	8	0.24
(1,967)	1:74:A:ASN:HA	1:74:A:ASN:HD22	9	0.24
(1,965)	1:56:A:LEU:HG	1:57:A:ALA:HA	7	0.24
(1,965)	1:56:A:LEU:HG	1:57:A:ALA:HA	17	0.24
(1,930)	1:94:A:ARG:HG2	1:96:A:ALA:HB1	8	0.24
(1,930)	1:94:A:ARG:HG2	1:96:A:ALA:HB2	8	0.24
(1,930)	1:94:A:ARG:HG2	1:96:A:ALA:HB3	8	0.24
(1,930)	1:94:A:ARG:HG3	1:96:A:ALA:HB1	8	0.24
(1,930)	1:94:A:ARG:HG3	1:96:A:ALA:HB2	8	0.24
(1,930)	1:94:A:ARG:HG3	1:96:A:ALA:HB3	8	0.24
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB1	15	0.24
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB2	15	0.24
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB3	15	0.24
(1,864)	1:90:A:ALA:HB1	1:149:A:GLY:H	12	0.24
(1,864)	1:90:A:ALA:HB2	1:149:A:GLY:H	12	0.24
(1,864)	1:90:A:ALA:HB3	1:149:A:GLY:H	12	0.24
(1,861)	1:59:A:THR:HG21	1:62:A:ALA:H	12	0.24
(1,861)	1:59:A:THR:HG22	1:62:A:ALA:H	12	0.24
(1,861)	1:59:A:THR:HG23	1:62:A:ALA:H	12	0.24
(1,861)	1:59:A:THR:HG21	1:62:A:ALA:H	19	0.24
(1,861)	1:59:A:THR:HG22	1:62:A:ALA:H	19	0.24
(1,861)	1:59:A:THR:HG23	1:62:A:ALA:H	19	0.24
(1,830)	1:56:A:LEU:H	1:57:A:ALA:HA	20	0.24
(1,827)	1:91:A:ARG:H	1:92:A:GLN:HA	10	0.24
(1,793)	1:69:A:LEU:HD11	1:71:A:ARG:H	2	0.24
(1,793)	1:69:A:LEU:HD12	1:71:A:ARG:H	2	0.24
(1,793)	1:69:A:LEU:HD13	1:71:A:ARG:H	2	0.24
(1,793)	1:69:A:LEU:HD11	1:71:A:ARG:H	15	0.24
(1,793)	1:69:A:LEU:HD12	1:71:A:ARG:H	15	0.24
(1,793)	1:69:A:LEU:HD13	1:71:A:ARG:H	15	0.24
(1,785)	1:67:A:ALA:HA	1:69:A:LEU:H	6	0.24
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB1	3	0.24
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB2	3	0.24
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB3	3	0.24
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD11	14	0.24
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD12	14	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD13	14	0.24
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD21	14	0.24
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD22	14	0.24
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD23	14	0.24
(1,688)	1:93:A:GLU:HA	1:125:A:PHE:H	11	0.24
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG21	2	0.24
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG22	2	0.24
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG23	2	0.24
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG21	5	0.24
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG22	5	0.24
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG23	5	0.24
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD21	6	0.24
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD22	6	0.24
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD23	6	0.24
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD21	6	0.24
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD22	6	0.24
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD23	6	0.24
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD21	6	0.24
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD22	6	0.24
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD23	6	0.24
(1,587)	1:66:A:THR:HB	1:147:A:VAL:HG21	18	0.24
(1,587)	1:66:A:THR:HB	1:147:A:VAL:HG22	18	0.24
(1,587)	1:66:A:THR:HB	1:147:A:VAL:HG23	18	0.24
(1,548)	1:67:A:ALA:HB1	1:68:A:VAL:HA	13	0.24
(1,548)	1:67:A:ALA:HB2	1:68:A:VAL:HA	13	0.24
(1,548)	1:67:A:ALA:HB3	1:68:A:VAL:HA	13	0.24
(1,547)	1:61:A:LEU:HD21	1:64:A:LYS:HA	10	0.24
(1,547)	1:61:A:LEU:HD22	1:64:A:LYS:HA	10	0.24
(1,547)	1:61:A:LEU:HD23	1:64:A:LYS:HA	10	0.24
(1,521)	1:98:A:ALA:HA	1:103:A:LEU:H	17	0.24
(1,509)	1:43:A:ILE:HD11	1:53:A:LEU:H	7	0.24
(1,509)	1:43:A:ILE:HD12	1:53:A:LEU:H	7	0.24
(1,509)	1:43:A:ILE:HD13	1:53:A:LEU:H	7	0.24
(1,503)	1:117:A:SER:HB2	1:119:A:GLU:HB2	6	0.24
(1,503)	1:117:A:SER:HB2	1:119:A:GLU:HB3	6	0.24
(1,503)	1:117:A:SER:HB3	1:119:A:GLU:HB2	6	0.24
(1,503)	1:117:A:SER:HB3	1:119:A:GLU:HB3	6	0.24
(1,500)	1:43:A:ILE:HG21	1:47:A:GLN:H	8	0.24
(1,500)	1:43:A:ILE:HG22	1:47:A:GLN:H	8	0.24
(1,500)	1:43:A:ILE:HG23	1:47:A:GLN:H	8	0.24
(1,500)	1:43:A:ILE:HG21	1:47:A:GLN:H	14	0.24
(1,500)	1:43:A:ILE:HG22	1:47:A:GLN:H	14	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,500)	1:43:A:ILE:HG23	1:47:A:GLN:H	14	0.24
(1,500)	1:43:A:ILE:HG21	1:47:A:GLN:H	20	0.24
(1,500)	1:43:A:ILE:HG22	1:47:A:GLN:H	20	0.24
(1,500)	1:43:A:ILE:HG23	1:47:A:GLN:H	20	0.24
(1,461)	1:43:A:ILE:HD11	1:47:A:GLN:H	10	0.24
(1,461)	1:43:A:ILE:HD12	1:47:A:GLN:H	10	0.24
(1,461)	1:43:A:ILE:HD13	1:47:A:GLN:H	10	0.24
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG21	12	0.24
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG22	12	0.24
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG23	12	0.24
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG21	12	0.24
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG22	12	0.24
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG23	12	0.24
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD21	17	0.24
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD22	17	0.24
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD23	17	0.24
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD21	17	0.24
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD22	17	0.24
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD23	17	0.24
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD21	17	0.24
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD22	17	0.24
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD23	17	0.24
(1,425)	1:42:A:LEU:HA	1:56:A:LEU:HG	8	0.24
(1,394)	1:39:A:ARG:HA	1:41:A:GLN:HG3	1	0.24
(1,394)	1:39:A:ARG:HA	1:41:A:GLN:HG3	14	0.24
(1,358)	1:51:A:GLU:H	1:52:A:GLN:HB2	8	0.24
(1,358)	1:51:A:GLU:H	1:52:A:GLN:HB3	8	0.24
(1,335)	1:76:A:ALA:HB1	1:78:A:ASP:H	12	0.24
(1,335)	1:76:A:ALA:HB2	1:78:A:ASP:H	12	0.24
(1,335)	1:76:A:ALA:HB3	1:78:A:ASP:H	12	0.24
(1,332)	1:47:A:GLN:H	1:53:A:LEU:H	1	0.24
(1,332)	1:47:A:GLN:H	1:53:A:LEU:H	3	0.24
(1,332)	1:47:A:GLN:H	1:53:A:LEU:H	8	0.24
(1,328)	1:47:A:GLN:HE21	1:52:A:GLN:H	6	0.24
(1,322)	1:60:A:ALA:H	1:65:A:ASP:HB2	19	0.24
(1,319)	1:66:A:THR:HG21	1:71:A:ARG:H	15	0.24
(1,319)	1:66:A:THR:HG22	1:71:A:ARG:H	15	0.24
(1,319)	1:66:A:THR:HG23	1:71:A:ARG:H	15	0.24
(1,316)	1:41:A:GLN:HE21	1:42:A:LEU:H	4	0.24
(1,316)	1:41:A:GLN:HE21	1:42:A:LEU:H	17	0.24
(1,270)	1:82:A:VAL:H	1:155:A:LEU:HB2	3	0.24
(1,270)	1:82:A:VAL:H	1:155:A:LEU:HB3	3	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,251)	1:88:A:LEU:HG	1:150:A:TRP:H	8	0.24
(1,249)	1:139:A:ALA:H	1:147:A:VAL:HG21	18	0.24
(1,249)	1:139:A:ALA:H	1:147:A:VAL:HG22	18	0.24
(1,249)	1:139:A:ALA:H	1:147:A:VAL:HG23	18	0.24
(1,216)	1:60:A:ALA:H	1:63:A:ARG:HD2	4	0.24
(1,216)	1:60:A:ALA:H	1:63:A:ARG:HD3	4	0.24
(1,192)	1:40:A:ALA:H	1:41:A:GLN:HG2	18	0.24
(1,147)	1:64:A:LYS:HD2	1:65:A:ASP:H	2	0.24
(1,147)	1:64:A:LYS:HD3	1:65:A:ASP:H	2	0.24
(1,147)	1:64:A:LYS:HD2	1:65:A:ASP:H	4	0.24
(1,147)	1:64:A:LYS:HD3	1:65:A:ASP:H	4	0.24
(1,147)	1:64:A:LYS:HD2	1:65:A:ASP:H	8	0.24
(1,147)	1:64:A:LYS:HD3	1:65:A:ASP:H	8	0.24
(1,147)	1:64:A:LYS:HD2	1:65:A:ASP:H	20	0.24
(1,147)	1:64:A:LYS:HD3	1:65:A:ASP:H	20	0.24
(1,134)	1:103:A:LEU:H	1:105:A:VAL:H	11	0.24
(1,129)	1:70:A:ASN:HB2	1:71:A:ARG:HE	2	0.24
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB1	8	0.24
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB2	8	0.24
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB3	8	0.24
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB1	8	0.24
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB2	8	0.24
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB3	8	0.24
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB1	10	0.24
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB2	10	0.24
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB3	10	0.24
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB1	10	0.24
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB2	10	0.24
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB3	10	0.24
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG21	3	0.24
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG22	3	0.24
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG23	3	0.24
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG21	17	0.24
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG22	17	0.24
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG23	17	0.24
(1,70)	1:45:A:ARG:HD2	1:47:A:GLN:H	3	0.24
(1,70)	1:45:A:ARG:HD3	1:47:A:GLN:H	3	0.24
(1,70)	1:45:A:ARG:HD2	1:47:A:GLN:H	10	0.24
(1,70)	1:45:A:ARG:HD3	1:47:A:GLN:H	10	0.24
(1,65)	1:147:A:VAL:HG21	1:149:A:GLY:HA2	3	0.24
(1,65)	1:147:A:VAL:HG22	1:149:A:GLY:HA2	3	0.24
(1,65)	1:147:A:VAL:HG23	1:149:A:GLY:HA2	3	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,65)	1:147:A:VAL:HG21	1:149:A:GLY:HA3	3	0.24
(1,65)	1:147:A:VAL:HG22	1:149:A:GLY:HA3	3	0.24
(1,65)	1:147:A:VAL:HG23	1:149:A:GLY:HA3	3	0.24
(1,53)	1:87:A:PHE:HA	1:150:A:TRP:HA	10	0.24
(1,51)	1:90:A:ALA:H	1:91:A:ARG:HA	2	0.24
(1,48)	1:65:A:ASP:HB3	1:68:A:VAL:HA	19	0.24
(1,45)	1:94:A:ARG:H	1:125:A:PHE:H	2	0.24
(1,43)	1:83:A:ARG:HA	1:155:A:LEU:HA	8	0.24
(1,24)	1:69:A:LEU:HB2	1:70:A:ASN:HB3	17	0.24
(1,24)	1:69:A:LEU:HB3	1:70:A:ASN:HB3	17	0.24
(1,1182)	1:130:A:LEU:HD11	1:131:A:GLY:HA2	9	0.23
(1,1182)	1:130:A:LEU:HD11	1:131:A:GLY:HA3	9	0.23
(1,1182)	1:130:A:LEU:HD12	1:131:A:GLY:HA2	9	0.23
(1,1182)	1:130:A:LEU:HD12	1:131:A:GLY:HA3	9	0.23
(1,1182)	1:130:A:LEU:HD13	1:131:A:GLY:HA2	9	0.23
(1,1182)	1:130:A:LEU:HD13	1:131:A:GLY:HA3	9	0.23
(1,1182)	1:130:A:LEU:HD21	1:131:A:GLY:HA2	9	0.23
(1,1182)	1:130:A:LEU:HD21	1:131:A:GLY:HA3	9	0.23
(1,1182)	1:130:A:LEU:HD22	1:131:A:GLY:HA2	9	0.23
(1,1182)	1:130:A:LEU:HD22	1:131:A:GLY:HA3	9	0.23
(1,1182)	1:130:A:LEU:HD23	1:131:A:GLY:HA2	9	0.23
(1,1182)	1:130:A:LEU:HD23	1:131:A:GLY:HA3	9	0.23
(1,1172)	1:95:A:LEU:HD11	1:96:A:ALA:H	2	0.23
(1,1172)	1:95:A:LEU:HD12	1:96:A:ALA:H	2	0.23
(1,1172)	1:95:A:LEU:HD13	1:96:A:ALA:H	2	0.23
(1,1172)	1:95:A:LEU:HD21	1:96:A:ALA:H	2	0.23
(1,1172)	1:95:A:LEU:HD22	1:96:A:ALA:H	2	0.23
(1,1172)	1:95:A:LEU:HD23	1:96:A:ALA:H	2	0.23
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD11	18	0.23
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD12	18	0.23
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD13	18	0.23
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD21	18	0.23
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD22	18	0.23
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD23	18	0.23
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG11	19	0.23
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG12	19	0.23
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG13	19	0.23
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG21	19	0.23
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG22	19	0.23
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG23	19	0.23
(1,1056)	1:83:A:ARG:HD2	1:154:A:GLU:HB2	14	0.23
(1,1056)	1:83:A:ARG:HD2	1:154:A:GLU:HB3	14	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1056)	1:83:A:ARG:HD3	1:154:A:GLU:HB2	14	0.23
(1,1056)	1:83:A:ARG:HD3	1:154:A:GLU:HB3	14	0.23
(1,1022)	1:71:A:ARG:HB2	1:72:A:ILE:HA	11	0.23
(1,1022)	1:71:A:ARG:HB3	1:72:A:ILE:HA	11	0.23
(1,1018)	1:70:A:ASN:HD22	1:71:A:ARG:HA	2	0.23
(1,996)	1:138:A:GLY:H	1:140:A:THR:HG21	14	0.23
(1,996)	1:138:A:GLY:H	1:140:A:THR:HG22	14	0.23
(1,996)	1:138:A:GLY:H	1:140:A:THR:HG23	14	0.23
(1,988)	1:66:A:THR:HG21	1:67:A:ALA:H	14	0.23
(1,988)	1:66:A:THR:HG22	1:67:A:ALA:H	14	0.23
(1,988)	1:66:A:THR:HG23	1:67:A:ALA:H	14	0.23
(1,970)	1:138:A:GLY:HA3	1:140:A:THR:HG21	1	0.23
(1,970)	1:138:A:GLY:HA3	1:140:A:THR:HG22	1	0.23
(1,970)	1:138:A:GLY:HA3	1:140:A:THR:HG23	1	0.23
(1,967)	1:74:A:ASN:HA	1:74:A:ASN:HD22	2	0.23
(1,967)	1:74:A:ASN:HA	1:74:A:ASN:HD22	13	0.23
(1,967)	1:74:A:ASN:HA	1:74:A:ASN:HD22	20	0.23
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG21	13	0.23
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG22	13	0.23
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG23	13	0.23
(1,953)	1:71:A:ARG:HD2	1:120:A:LEU:HD11	16	0.23
(1,953)	1:71:A:ARG:HD2	1:120:A:LEU:HD12	16	0.23
(1,953)	1:71:A:ARG:HD2	1:120:A:LEU:HD13	16	0.23
(1,953)	1:71:A:ARG:HD2	1:120:A:LEU:HD21	16	0.23
(1,953)	1:71:A:ARG:HD2	1:120:A:LEU:HD22	16	0.23
(1,953)	1:71:A:ARG:HD2	1:120:A:LEU:HD23	16	0.23
(1,953)	1:71:A:ARG:HD3	1:120:A:LEU:HD11	16	0.23
(1,953)	1:71:A:ARG:HD3	1:120:A:LEU:HD12	16	0.23
(1,953)	1:71:A:ARG:HD3	1:120:A:LEU:HD13	16	0.23
(1,953)	1:71:A:ARG:HD3	1:120:A:LEU:HD21	16	0.23
(1,953)	1:71:A:ARG:HD3	1:120:A:LEU:HD22	16	0.23
(1,953)	1:71:A:ARG:HD3	1:120:A:LEU:HD23	16	0.23
(1,861)	1:59:A:THR:HG21	1:62:A:ALA:H	1	0.23
(1,861)	1:59:A:THR:HG22	1:62:A:ALA:H	1	0.23
(1,861)	1:59:A:THR:HG23	1:62:A:ALA:H	1	0.23
(1,861)	1:59:A:THR:HG21	1:62:A:ALA:H	11	0.23
(1,861)	1:59:A:THR:HG22	1:62:A:ALA:H	11	0.23
(1,861)	1:59:A:THR:HG23	1:62:A:ALA:H	11	0.23
(1,861)	1:59:A:THR:HG21	1:62:A:ALA:H	20	0.23
(1,861)	1:59:A:THR:HG22	1:62:A:ALA:H	20	0.23
(1,861)	1:59:A:THR:HG23	1:62:A:ALA:H	20	0.23
(1,849)	1:89:A:ASP:H	1:95:A:LEU:HD21	10	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,849)	1:89:A:ASP:H	1:95:A:LEU:HD22	10	0.23
(1,849)	1:89:A:ASP:H	1:95:A:LEU:HD23	10	0.23
(1,841)	1:130:A:LEU:HD11	1:132:A:ARG:H	13	0.23
(1,841)	1:130:A:LEU:HD12	1:132:A:ARG:H	13	0.23
(1,841)	1:130:A:LEU:HD13	1:132:A:ARG:H	13	0.23
(1,841)	1:130:A:LEU:HD21	1:132:A:ARG:H	13	0.23
(1,841)	1:130:A:LEU:HD22	1:132:A:ARG:H	13	0.23
(1,841)	1:130:A:LEU:HD23	1:132:A:ARG:H	13	0.23
(1,830)	1:56:A:LEU:H	1:57:A:ALA:HA	13	0.23
(1,830)	1:56:A:LEU:H	1:57:A:ALA:HA	16	0.23
(1,790)	1:74:A:ASN:HD21	1:98:A:ALA:HB1	1	0.23
(1,790)	1:74:A:ASN:HD21	1:98:A:ALA:HB2	1	0.23
(1,790)	1:74:A:ASN:HD21	1:98:A:ALA:HB3	1	0.23
(1,785)	1:67:A:ALA:HA	1:69:A:LEU:H	15	0.23
(1,752)	1:140:A:THR:HG21	1:141:A:GLU:H	15	0.23
(1,752)	1:140:A:THR:HG22	1:141:A:GLU:H	15	0.23
(1,752)	1:140:A:THR:HG23	1:141:A:GLU:H	15	0.23
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB1	4	0.23
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB2	4	0.23
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB3	4	0.23
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB1	7	0.23
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB2	7	0.23
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB3	7	0.23
(1,695)	1:42:A:LEU:HA	1:56:A:LEU:HB2	7	0.23
(1,695)	1:42:A:LEU:HA	1:56:A:LEU:HB3	7	0.23
(1,695)	1:42:A:LEU:HA	1:56:A:LEU:HB2	11	0.23
(1,695)	1:42:A:LEU:HA	1:56:A:LEU:HB3	11	0.23
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG21	12	0.23
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG22	12	0.23
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG23	12	0.23
(1,657)	1:59:A:THR:HA	1:62:A:ALA:H	6	0.23
(1,657)	1:59:A:THR:HA	1:62:A:ALA:H	9	0.23
(1,657)	1:59:A:THR:HA	1:62:A:ALA:H	17	0.23
(1,657)	1:59:A:THR:HA	1:62:A:ALA:H	19	0.23
(1,635)	1:82:A:VAL:HB	1:83:A:ARG:HA	5	0.23
(1,635)	1:82:A:VAL:HB	1:83:A:ARG:HA	13	0.23
(1,618)	1:162:A:LEU:HB2	1:163:A:ARG:H	18	0.23
(1,618)	1:162:A:LEU:HB3	1:163:A:ARG:H	18	0.23
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD21	1	0.23
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD22	1	0.23
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD23	1	0.23
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD21	1	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD22	1	0.23
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD23	1	0.23
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD21	1	0.23
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD22	1	0.23
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD23	1	0.23
(1,547)	1:61:A:LEU:HD21	1:64:A:LYS:HA	5	0.23
(1,547)	1:61:A:LEU:HD22	1:64:A:LYS:HA	5	0.23
(1,547)	1:61:A:LEU:HD23	1:64:A:LYS:HA	5	0.23
(1,521)	1:98:A:ALA:HA	1:103:A:LEU:H	5	0.23
(1,511)	1:146:A:ARG:HE	1:147:A:VAL:HG11	5	0.23
(1,511)	1:146:A:ARG:HE	1:147:A:VAL:HG12	5	0.23
(1,511)	1:146:A:ARG:HE	1:147:A:VAL:HG13	5	0.23
(1,509)	1:43:A:ILE:HD11	1:53:A:LEU:H	17	0.23
(1,509)	1:43:A:ILE:HD12	1:53:A:LEU:H	17	0.23
(1,509)	1:43:A:ILE:HD13	1:53:A:LEU:H	17	0.23
(1,495)	1:93:A:GLU:HG2	1:124:A:HIS:HA	20	0.23
(1,495)	1:93:A:GLU:HG3	1:124:A:HIS:HA	20	0.23
(1,449)	1:93:A:GLU:HB2	1:123:A:THR:HG21	20	0.23
(1,449)	1:93:A:GLU:HB2	1:123:A:THR:HG22	20	0.23
(1,449)	1:93:A:GLU:HB2	1:123:A:THR:HG23	20	0.23
(1,449)	1:93:A:GLU:HB3	1:123:A:THR:HG21	20	0.23
(1,449)	1:93:A:GLU:HB3	1:123:A:THR:HG22	20	0.23
(1,449)	1:93:A:GLU:HB3	1:123:A:THR:HG23	20	0.23
(1,440)	1:65:A:ASP:HA	1:147:A:VAL:HG11	15	0.23
(1,440)	1:65:A:ASP:HA	1:147:A:VAL:HG12	15	0.23
(1,440)	1:65:A:ASP:HA	1:147:A:VAL:HG13	15	0.23
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG21	2	0.23
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG22	2	0.23
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG23	2	0.23
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG21	2	0.23
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG22	2	0.23
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG23	2	0.23
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG21	18	0.23
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG22	18	0.23
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG23	18	0.23
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG21	18	0.23
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG22	18	0.23
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG23	18	0.23
(1,436)	1:90:A:ALA:HB1	1:148:A:LEU:H	19	0.23
(1,436)	1:90:A:ALA:HB2	1:148:A:LEU:H	19	0.23
(1,436)	1:90:A:ALA:HB3	1:148:A:LEU:H	19	0.23
(1,425)	1:42:A:LEU:HA	1:56:A:LEU:HG	14	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,375)	1:160:A:THR:H	1:162:A:LEU:HD11	12	0.23
(1,375)	1:160:A:THR:H	1:162:A:LEU:HD12	12	0.23
(1,375)	1:160:A:THR:H	1:162:A:LEU:HD13	12	0.23
(1,375)	1:160:A:THR:H	1:162:A:LEU:HD21	12	0.23
(1,375)	1:160:A:THR:H	1:162:A:LEU:HD22	12	0.23
(1,375)	1:160:A:THR:H	1:162:A:LEU:HD23	12	0.23
(1,369)	1:44:A:GLU:HG2	1:45:A:ARG:H	13	0.23
(1,369)	1:44:A:GLU:HG3	1:45:A:ARG:H	13	0.23
(1,358)	1:51:A:GLU:H	1:52:A:GLN:HB2	5	0.23
(1,358)	1:51:A:GLU:H	1:52:A:GLN:HB3	5	0.23
(1,358)	1:51:A:GLU:H	1:52:A:GLN:HB2	6	0.23
(1,358)	1:51:A:GLU:H	1:52:A:GLN:HB3	6	0.23
(1,352)	1:74:A:ASN:HB2	1:75:A:GLU:H	19	0.23
(1,342)	1:135:A:SER:HB2	1:136:A:LEU:H	8	0.23
(1,335)	1:76:A:ALA:HB1	1:78:A:ASP:H	11	0.23
(1,335)	1:76:A:ALA:HB2	1:78:A:ASP:H	11	0.23
(1,335)	1:76:A:ALA:HB3	1:78:A:ASP:H	11	0.23
(1,316)	1:41:A:GLN:HE21	1:42:A:LEU:H	12	0.23
(1,311)	1:98:A:ALA:H	1:152:A:GLU:HB2	3	0.23
(1,311)	1:98:A:ALA:H	1:152:A:GLU:HB3	3	0.23
(1,311)	1:98:A:ALA:H	1:152:A:GLU:HB2	19	0.23
(1,311)	1:98:A:ALA:H	1:152:A:GLU:HB3	19	0.23
(1,302)	1:57:A:ALA:H	1:158:A:HIS:HD2	20	0.23
(1,291)	1:97:A:HIS:H	1:97:A:HIS:HD2	15	0.23
(1,282)	1:60:A:ALA:HB1	1:65:A:ASP:HB3	12	0.23
(1,282)	1:60:A:ALA:HB2	1:65:A:ASP:HB3	12	0.23
(1,282)	1:60:A:ALA:HB3	1:65:A:ASP:HB3	12	0.23
(1,278)	1:47:A:GLN:H	1:52:A:GLN:HE21	11	0.23
(1,278)	1:47:A:GLN:H	1:52:A:GLN:HE21	19	0.23
(1,270)	1:82:A:VAL:H	1:155:A:LEU:HB2	2	0.23
(1,270)	1:82:A:VAL:H	1:155:A:LEU:HB3	2	0.23
(1,251)	1:88:A:LEU:HG	1:150:A:TRP:H	9	0.23
(1,248)	1:61:A:LEU:HD21	1:64:A:LYS:H	12	0.23
(1,248)	1:61:A:LEU:HD22	1:64:A:LYS:H	12	0.23
(1,248)	1:61:A:LEU:HD23	1:64:A:LYS:H	12	0.23
(1,248)	1:61:A:LEU:HD21	1:64:A:LYS:H	13	0.23
(1,248)	1:61:A:LEU:HD22	1:64:A:LYS:H	13	0.23
(1,248)	1:61:A:LEU:HD23	1:64:A:LYS:H	13	0.23
(1,247)	1:74:A:ASN:H	1:75:A:GLU:HG2	20	0.23
(1,247)	1:74:A:ASN:H	1:75:A:GLU:HG3	20	0.23
(1,232)	1:71:A:ARG:HB2	1:73:A:ALA:H	16	0.23
(1,232)	1:71:A:ARG:HB3	1:73:A:ALA:H	16	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,231)	1:95:A:LEU:HD21	1:96:A:ALA:H	13	0.23
(1,231)	1:95:A:LEU:HD22	1:96:A:ALA:H	13	0.23
(1,231)	1:95:A:LEU:HD23	1:96:A:ALA:H	13	0.23
(1,216)	1:60:A:ALA:H	1:63:A:ARG:HD2	5	0.23
(1,216)	1:60:A:ALA:H	1:63:A:ARG:HD3	5	0.23
(1,160)	1:97:A:HIS:HB3	1:150:A:TRP:HZ3	9	0.23
(1,160)	1:97:A:HIS:HB3	1:150:A:TRP:HZ3	11	0.23
(1,154)	1:79:A:GLN:HE21	1:111:A:ALA:HA	11	0.23
(1,147)	1:64:A:LYS:HD2	1:65:A:ASP:H	19	0.23
(1,147)	1:64:A:LYS:HD3	1:65:A:ASP:H	19	0.23
(1,133)	1:65:A:ASP:HA	1:147:A:VAL:HG21	18	0.23
(1,133)	1:65:A:ASP:HA	1:147:A:VAL:HG22	18	0.23
(1,133)	1:65:A:ASP:HA	1:147:A:VAL:HG23	18	0.23
(1,119)	1:87:A:PHE:HD1	1:98:A:ALA:H	7	0.23
(1,119)	1:87:A:PHE:HD2	1:98:A:ALA:H	7	0.23
(1,107)	1:56:A:LEU:HD11	1:58:A:ALA:H	5	0.23
(1,107)	1:56:A:LEU:HD12	1:58:A:ALA:H	5	0.23
(1,107)	1:56:A:LEU:HD13	1:58:A:ALA:H	5	0.23
(1,107)	1:56:A:LEU:HD21	1:58:A:ALA:H	5	0.23
(1,107)	1:56:A:LEU:HD22	1:58:A:ALA:H	5	0.23
(1,107)	1:56:A:LEU:HD23	1:58:A:ALA:H	5	0.23
(1,104)	1:70:A:ASN:HD22	1:71:A:ARG:HD2	11	0.23
(1,104)	1:70:A:ASN:HD22	1:71:A:ARG:HD3	11	0.23
(1,103)	1:81:A:ASP:H	1:163:A:ARG:HH11	5	0.23
(1,103)	1:81:A:ASP:H	1:163:A:ARG:HH12	5	0.23
(1,77)	1:88:A:LEU:HD11	1:124:A:HIS:H	13	0.23
(1,77)	1:88:A:LEU:HD12	1:124:A:HIS:H	13	0.23
(1,77)	1:88:A:LEU:HD13	1:124:A:HIS:H	13	0.23
(1,70)	1:45:A:ARG:HD2	1:47:A:GLN:H	2	0.23
(1,70)	1:45:A:ARG:HD3	1:47:A:GLN:H	2	0.23
(1,70)	1:45:A:ARG:HD2	1:47:A:GLN:H	14	0.23
(1,70)	1:45:A:ARG:HD3	1:47:A:GLN:H	14	0.23
(1,53)	1:87:A:PHE:HA	1:150:A:TRP:HA	1	0.23
(1,53)	1:87:A:PHE:HA	1:150:A:TRP:HA	15	0.23
(1,51)	1:90:A:ALA:H	1:91:A:ARG:HA	1	0.23
(1,51)	1:90:A:ALA:H	1:91:A:ARG:HA	3	0.23
(1,51)	1:90:A:ALA:H	1:91:A:ARG:HA	7	0.23
(1,51)	1:90:A:ALA:H	1:91:A:ARG:HA	13	0.23
(1,50)	1:150:A:TRP:HA	1:151:A:VAL:HB	2	0.23
(1,50)	1:150:A:TRP:HA	1:151:A:VAL:HB	7	0.23
(1,48)	1:65:A:ASP:HB3	1:68:A:VAL:HA	2	0.23
(1,48)	1:65:A:ASP:HB3	1:68:A:VAL:HA	6	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,48)	1:65:A:ASP:HB3	1:68:A:VAL:HA	15	0.23
(1,47)	1:70:A:ASN:H	1:71:A:ARG:HE	5	0.23
(1,45)	1:94:A:ARG:H	1:125:A:PHE:H	10	0.23
(1,43)	1:83:A:ARG:HA	1:155:A:LEU:HA	12	0.23
(1,39)	1:121:A:ASP:H	1:123:A:THR:H	7	0.23
(1,24)	1:69:A:LEU:HB2	1:70:A:ASN:HB3	7	0.23
(1,24)	1:69:A:LEU:HB3	1:70:A:ASN:HB3	7	0.23
(1,1190)	1:146:A:ARG:HB2	1:151:A:VAL:HG11	5	0.22
(1,1190)	1:146:A:ARG:HB2	1:151:A:VAL:HG12	5	0.22
(1,1190)	1:146:A:ARG:HB2	1:151:A:VAL:HG13	5	0.22
(1,1190)	1:146:A:ARG:HB2	1:151:A:VAL:HG21	5	0.22
(1,1190)	1:146:A:ARG:HB2	1:151:A:VAL:HG22	5	0.22
(1,1190)	1:146:A:ARG:HB2	1:151:A:VAL:HG23	5	0.22
(1,1190)	1:146:A:ARG:HB3	1:151:A:VAL:HG11	5	0.22
(1,1190)	1:146:A:ARG:HB3	1:151:A:VAL:HG12	5	0.22
(1,1190)	1:146:A:ARG:HB3	1:151:A:VAL:HG13	5	0.22
(1,1190)	1:146:A:ARG:HB3	1:151:A:VAL:HG21	5	0.22
(1,1190)	1:146:A:ARG:HB3	1:151:A:VAL:HG22	5	0.22
(1,1190)	1:146:A:ARG:HB3	1:151:A:VAL:HG23	5	0.22
(1,1167)	1:90:A:ALA:HB1	1:148:A:LEU:HD11	6	0.22
(1,1167)	1:90:A:ALA:HB1	1:148:A:LEU:HD12	6	0.22
(1,1167)	1:90:A:ALA:HB1	1:148:A:LEU:HD13	6	0.22
(1,1167)	1:90:A:ALA:HB1	1:148:A:LEU:HD21	6	0.22
(1,1167)	1:90:A:ALA:HB1	1:148:A:LEU:HD22	6	0.22
(1,1167)	1:90:A:ALA:HB1	1:148:A:LEU:HD23	6	0.22
(1,1167)	1:90:A:ALA:HB2	1:148:A:LEU:HD11	6	0.22
(1,1167)	1:90:A:ALA:HB2	1:148:A:LEU:HD12	6	0.22
(1,1167)	1:90:A:ALA:HB2	1:148:A:LEU:HD13	6	0.22
(1,1167)	1:90:A:ALA:HB2	1:148:A:LEU:HD21	6	0.22
(1,1167)	1:90:A:ALA:HB2	1:148:A:LEU:HD22	6	0.22
(1,1167)	1:90:A:ALA:HB2	1:148:A:LEU:HD23	6	0.22
(1,1167)	1:90:A:ALA:HB3	1:148:A:LEU:HD11	6	0.22
(1,1167)	1:90:A:ALA:HB3	1:148:A:LEU:HD12	6	0.22
(1,1167)	1:90:A:ALA:HB3	1:148:A:LEU:HD13	6	0.22
(1,1167)	1:90:A:ALA:HB3	1:148:A:LEU:HD21	6	0.22
(1,1167)	1:90:A:ALA:HB3	1:148:A:LEU:HD22	6	0.22
(1,1167)	1:90:A:ALA:HB3	1:148:A:LEU:HD23	6	0.22
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD11	3	0.22
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD12	3	0.22
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD13	3	0.22
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD21	3	0.22
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD22	3	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD23	3	0.22
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD11	14	0.22
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD12	14	0.22
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD13	14	0.22
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD21	14	0.22
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD22	14	0.22
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD23	14	0.22
(1,1129)	1:81:A:ASP:HB2	1:162:A:LEU:HB2	18	0.22
(1,1129)	1:81:A:ASP:HB2	1:162:A:LEU:HB3	18	0.22
(1,1129)	1:81:A:ASP:HB3	1:162:A:LEU:HB2	18	0.22
(1,1129)	1:81:A:ASP:HB3	1:162:A:LEU:HB3	18	0.22
(1,1068)	1:43:A:ILE:HG21	1:46:A:GLY:HA2	17	0.22
(1,1068)	1:43:A:ILE:HG21	1:46:A:GLY:HA3	17	0.22
(1,1068)	1:43:A:ILE:HG22	1:46:A:GLY:HA2	17	0.22
(1,1068)	1:43:A:ILE:HG22	1:46:A:GLY:HA3	17	0.22
(1,1068)	1:43:A:ILE:HG23	1:46:A:GLY:HA2	17	0.22
(1,1068)	1:43:A:ILE:HG23	1:46:A:GLY:HA3	17	0.22
(1,1054)	1:61:A:LEU:HB2	1:65:A:ASP:H	10	0.22
(1,1054)	1:61:A:LEU:HB3	1:65:A:ASP:H	10	0.22
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB1	2	0.22
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB2	2	0.22
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB3	2	0.22
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB1	2	0.22
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB2	2	0.22
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB3	2	0.22
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB1	2	0.22
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB2	2	0.22
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB3	2	0.22
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB1	4	0.22
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB2	4	0.22
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB3	4	0.22
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB1	4	0.22
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB2	4	0.22
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB3	4	0.22
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB1	4	0.22
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB2	4	0.22
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB3	4	0.22
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB1	6	0.22
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB2	6	0.22
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB3	6	0.22
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB1	6	0.22
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB2	6	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB3	6	0.22
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB1	6	0.22
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB2	6	0.22
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB3	6	0.22
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB1	12	0.22
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB2	12	0.22
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB3	12	0.22
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB1	12	0.22
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB2	12	0.22
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB3	12	0.22
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB1	12	0.22
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB2	12	0.22
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB3	12	0.22
(1,987)	1:146:A:ARG:HG2	1:147:A:VAL:HA	1	0.22
(1,987)	1:146:A:ARG:HG3	1:147:A:VAL:HA	1	0.22
(1,983)	1:80:A:PRO:HA	1:164:A:GLY:HA2	15	0.22
(1,983)	1:80:A:PRO:HA	1:164:A:GLY:HA3	15	0.22
(1,970)	1:138:A:GLY:HA3	1:140:A:THR:HG21	15	0.22
(1,970)	1:138:A:GLY:HA3	1:140:A:THR:HG22	15	0.22
(1,970)	1:138:A:GLY:HA3	1:140:A:THR:HG23	15	0.22
(1,967)	1:74:A:ASN:HA	1:74:A:ASN:HD22	11	0.22
(1,967)	1:74:A:ASN:HA	1:74:A:ASN:HD22	19	0.22
(1,965)	1:56:A:LEU:HG	1:57:A:ALA:HA	4	0.22
(1,965)	1:56:A:LEU:HG	1:57:A:ALA:HA	6	0.22
(1,959)	1:79:A:GLN:HB2	1:111:A:ALA:HA	3	0.22
(1,918)	1:163:A:ARG:HA	1:164:A:GLY:H	19	0.22
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB1	18	0.22
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB2	18	0.22
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB3	18	0.22
(1,847)	1:60:A:ALA:HB1	1:68:A:VAL:H	11	0.22
(1,847)	1:60:A:ALA:HB2	1:68:A:VAL:H	11	0.22
(1,847)	1:60:A:ALA:HB3	1:68:A:VAL:H	11	0.22
(1,830)	1:56:A:LEU:H	1:57:A:ALA:HA	10	0.22
(1,830)	1:56:A:LEU:H	1:57:A:ALA:HA	14	0.22
(1,811)	1:74:A:ASN:H	1:77:A:LEU:HB2	1	0.22
(1,811)	1:74:A:ASN:H	1:77:A:LEU:HB3	1	0.22
(1,793)	1:69:A:LEU:HD11	1:71:A:ARG:H	6	0.22
(1,793)	1:69:A:LEU:HD12	1:71:A:ARG:H	6	0.22
(1,793)	1:69:A:LEU:HD13	1:71:A:ARG:H	6	0.22
(1,793)	1:69:A:LEU:HD11	1:71:A:ARG:H	18	0.22
(1,793)	1:69:A:LEU:HD12	1:71:A:ARG:H	18	0.22
(1,793)	1:69:A:LEU:HD13	1:71:A:ARG:H	18	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,742)	1:88:A:LEU:HB2	1:93:A:GLU:HG2	4	0.22
(1,742)	1:88:A:LEU:HB2	1:93:A:GLU:HG3	4	0.22
(1,742)	1:88:A:LEU:HB3	1:93:A:GLU:HG2	4	0.22
(1,742)	1:88:A:LEU:HB3	1:93:A:GLU:HG3	4	0.22
(1,733)	1:88:A:LEU:HD11	1:94:A:ARG:HA	7	0.22
(1,733)	1:88:A:LEU:HD12	1:94:A:ARG:HA	7	0.22
(1,733)	1:88:A:LEU:HD13	1:94:A:ARG:HA	7	0.22
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD11	2	0.22
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD12	2	0.22
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD13	2	0.22
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD21	2	0.22
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD22	2	0.22
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD23	2	0.22
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD11	2	0.22
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD12	2	0.22
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD13	2	0.22
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD21	2	0.22
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD22	2	0.22
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD23	2	0.22
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD11	2	0.22
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD12	2	0.22
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD13	2	0.22
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD21	2	0.22
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD22	2	0.22
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD23	2	0.22
(1,695)	1:42:A:LEU:HA	1:56:A:LEU:HB2	10	0.22
(1,695)	1:42:A:LEU:HA	1:56:A:LEU:HB3	10	0.22
(1,688)	1:93:A:GLU:HA	1:125:A:PHE:H	2	0.22
(1,688)	1:93:A:GLU:HA	1:125:A:PHE:H	12	0.22
(1,664)	1:114:A:LEU:H	1:114:A:LEU:HD11	7	0.22
(1,664)	1:114:A:LEU:H	1:114:A:LEU:HD12	7	0.22
(1,664)	1:114:A:LEU:H	1:114:A:LEU:HD13	7	0.22
(1,664)	1:114:A:LEU:H	1:114:A:LEU:HD21	7	0.22
(1,664)	1:114:A:LEU:H	1:114:A:LEU:HD22	7	0.22
(1,664)	1:114:A:LEU:H	1:114:A:LEU:HD23	7	0.22
(1,657)	1:59:A:THR:HA	1:62:A:ALA:H	7	0.22
(1,657)	1:59:A:THR:HA	1:62:A:ALA:H	8	0.22
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG21	18	0.22
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG22	18	0.22
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG23	18	0.22
(1,635)	1:82:A:VAL:HB	1:83:A:ARG:HA	16	0.22
(1,635)	1:82:A:VAL:HB	1:83:A:ARG:HA	18	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,618)	1:162:A:LEU:HB2	1:163:A:ARG:H	6	0.22
(1,618)	1:162:A:LEU:HB3	1:163:A:ARG:H	6	0.22
(1,592)	1:57:A:ALA:HA	1:158:A:HIS:HD2	5	0.22
(1,548)	1:67:A:ALA:HB1	1:68:A:VAL:HA	5	0.22
(1,548)	1:67:A:ALA:HB2	1:68:A:VAL:HA	5	0.22
(1,548)	1:67:A:ALA:HB3	1:68:A:VAL:HA	5	0.22
(1,548)	1:67:A:ALA:HB1	1:68:A:VAL:HA	10	0.22
(1,548)	1:67:A:ALA:HB2	1:68:A:VAL:HA	10	0.22
(1,548)	1:67:A:ALA:HB3	1:68:A:VAL:HA	10	0.22
(1,547)	1:61:A:LEU:HD21	1:64:A:LYS:HA	7	0.22
(1,547)	1:61:A:LEU:HD22	1:64:A:LYS:HA	7	0.22
(1,547)	1:61:A:LEU:HD23	1:64:A:LYS:HA	7	0.22
(1,547)	1:61:A:LEU:HD21	1:64:A:LYS:HA	16	0.22
(1,547)	1:61:A:LEU:HD22	1:64:A:LYS:HA	16	0.22
(1,547)	1:61:A:LEU:HD23	1:64:A:LYS:HA	16	0.22
(1,521)	1:98:A:ALA:HA	1:103:A:LEU:H	15	0.22
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB1	20	0.22
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB2	20	0.22
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB3	20	0.22
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB1	20	0.22
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB2	20	0.22
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB3	20	0.22
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB1	20	0.22
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB2	20	0.22
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB3	20	0.22
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB1	20	0.22
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB2	20	0.22
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB3	20	0.22
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB1	20	0.22
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB2	20	0.22
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB3	20	0.22
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB1	20	0.22
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB2	20	0.22
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB3	20	0.22
(1,470)	1:115:A:SER:H	1:116:A:MET:HB2	18	0.22
(1,470)	1:115:A:SER:H	1:116:A:MET:HB3	18	0.22
(1,461)	1:43:A:ILE:HD11	1:47:A:GLN:H	18	0.22
(1,461)	1:43:A:ILE:HD12	1:47:A:GLN:H	18	0.22
(1,461)	1:43:A:ILE:HD13	1:47:A:GLN:H	18	0.22
(1,448)	1:86:A:THR:HG21	1:150:A:TRP:HE3	1	0.22
(1,448)	1:86:A:THR:HG22	1:150:A:TRP:HE3	1	0.22
(1,448)	1:86:A:THR:HG23	1:150:A:TRP:HE3	1	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,442)	1:141:A:GLU:HB2	1:145:A:GLU:H	1	0.22
(1,442)	1:141:A:GLU:HB3	1:145:A:GLU:H	1	0.22
(1,442)	1:141:A:GLU:HB2	1:145:A:GLU:H	15	0.22
(1,442)	1:141:A:GLU:HB3	1:145:A:GLU:H	15	0.22
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG21	3	0.22
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG22	3	0.22
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG23	3	0.22
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG21	3	0.22
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG22	3	0.22
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG23	3	0.22
(1,436)	1:90:A:ALA:HB1	1:148:A:LEU:H	20	0.22
(1,436)	1:90:A:ALA:HB2	1:148:A:LEU:H	20	0.22
(1,436)	1:90:A:ALA:HB3	1:148:A:LEU:H	20	0.22
(1,394)	1:39:A:ARG:HA	1:41:A:GLN:HG3	18	0.22
(1,371)	1:47:A:GLN:H	1:47:A:GLN:HE21	7	0.22
(1,369)	1:44:A:GLU:HG2	1:45:A:ARG:H	3	0.22
(1,369)	1:44:A:GLU:HG3	1:45:A:ARG:H	3	0.22
(1,366)	1:70:A:ASN:H	1:72:A:ILE:HG12	8	0.22
(1,366)	1:70:A:ASN:H	1:72:A:ILE:HG13	8	0.22
(1,335)	1:76:A:ALA:HB1	1:78:A:ASP:H	7	0.22
(1,335)	1:76:A:ALA:HB2	1:78:A:ASP:H	7	0.22
(1,335)	1:76:A:ALA:HB3	1:78:A:ASP:H	7	0.22
(1,335)	1:76:A:ALA:HB1	1:78:A:ASP:H	15	0.22
(1,335)	1:76:A:ALA:HB2	1:78:A:ASP:H	15	0.22
(1,335)	1:76:A:ALA:HB3	1:78:A:ASP:H	15	0.22
(1,331)	1:66:A:THR:H	1:147:A:VAL:HG21	4	0.22
(1,331)	1:66:A:THR:H	1:147:A:VAL:HG22	4	0.22
(1,331)	1:66:A:THR:H	1:147:A:VAL:HG23	4	0.22
(1,331)	1:66:A:THR:H	1:147:A:VAL:HG21	7	0.22
(1,331)	1:66:A:THR:H	1:147:A:VAL:HG22	7	0.22
(1,331)	1:66:A:THR:H	1:147:A:VAL:HG23	7	0.22
(1,328)	1:47:A:GLN:HE21	1:52:A:GLN:H	13	0.22
(1,321)	1:65:A:ASP:HB3	1:66:A:THR:H	18	0.22
(1,319)	1:66:A:THR:HG21	1:71:A:ARG:H	11	0.22
(1,319)	1:66:A:THR:HG22	1:71:A:ARG:H	11	0.22
(1,319)	1:66:A:THR:HG23	1:71:A:ARG:H	11	0.22
(1,316)	1:41:A:GLN:HE21	1:42:A:LEU:H	6	0.22
(1,316)	1:41:A:GLN:HE21	1:42:A:LEU:H	10	0.22
(1,311)	1:98:A:ALA:H	1:152:A:GLU:HB2	7	0.22
(1,311)	1:98:A:ALA:H	1:152:A:GLU:HB3	7	0.22
(1,308)	1:45:A:ARG:H	1:47:A:GLN:H	6	0.22
(1,305)	1:93:A:GLU:HA	1:94:A:ARG:HD2	2	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,305)	1:93:A:GLU:HA	1:94:A:ARG:HD3	2	0.22
(1,296)	1:80:A:PRO:HG2	1:163:A:ARG:HH11	13	0.22
(1,296)	1:80:A:PRO:HG2	1:163:A:ARG:HH12	13	0.22
(1,296)	1:80:A:PRO:HG3	1:163:A:ARG:HH11	13	0.22
(1,296)	1:80:A:PRO:HG3	1:163:A:ARG:HH12	13	0.22
(1,270)	1:82:A:VAL:H	1:155:A:LEU:HB2	8	0.22
(1,270)	1:82:A:VAL:H	1:155:A:LEU:HB3	8	0.22
(1,257)	1:104:A:THR:H	1:106:A:ALA:H	4	0.22
(1,251)	1:88:A:LEU:HG	1:150:A:TRP:H	20	0.22
(1,248)	1:61:A:LEU:HD21	1:64:A:LYS:H	3	0.22
(1,248)	1:61:A:LEU:HD22	1:64:A:LYS:H	3	0.22
(1,248)	1:61:A:LEU:HD23	1:64:A:LYS:H	3	0.22
(1,248)	1:61:A:LEU:HD21	1:64:A:LYS:H	11	0.22
(1,248)	1:61:A:LEU:HD22	1:64:A:LYS:H	11	0.22
(1,248)	1:61:A:LEU:HD23	1:64:A:LYS:H	11	0.22
(1,248)	1:61:A:LEU:HD21	1:64:A:LYS:H	16	0.22
(1,248)	1:61:A:LEU:HD22	1:64:A:LYS:H	16	0.22
(1,248)	1:61:A:LEU:HD23	1:64:A:LYS:H	16	0.22
(1,231)	1:95:A:LEU:HD21	1:96:A:ALA:H	4	0.22
(1,231)	1:95:A:LEU:HD22	1:96:A:ALA:H	4	0.22
(1,231)	1:95:A:LEU:HD23	1:96:A:ALA:H	4	0.22
(1,208)	1:97:A:HIS:HB2	1:131:A:GLY:H	13	0.22
(1,205)	1:119:A:GLU:HB2	1:121:A:ASP:HB2	14	0.22
(1,205)	1:119:A:GLU:HB2	1:121:A:ASP:HB3	14	0.22
(1,205)	1:119:A:GLU:HB3	1:121:A:ASP:HB2	14	0.22
(1,205)	1:119:A:GLU:HB3	1:121:A:ASP:HB3	14	0.22
(1,185)	1:63:A:ARG:H	1:63:A:ARG:HD2	17	0.22
(1,185)	1:63:A:ARG:H	1:63:A:ARG:HD3	17	0.22
(1,147)	1:64:A:LYS:HD2	1:65:A:ASP:H	18	0.22
(1,147)	1:64:A:LYS:HD3	1:65:A:ASP:H	18	0.22
(1,136)	1:69:A:LEU:HD21	1:70:A:ASN:H	16	0.22
(1,136)	1:69:A:LEU:HD22	1:70:A:ASN:H	16	0.22
(1,136)	1:69:A:LEU:HD23	1:70:A:ASN:H	16	0.22
(1,118)	1:86:A:THR:HB	1:151:A:VAL:HA	16	0.22
(1,104)	1:70:A:ASN:HD22	1:71:A:ARG:HD2	5	0.22
(1,104)	1:70:A:ASN:HD22	1:71:A:ARG:HD3	5	0.22
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG21	8	0.22
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG22	8	0.22
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG23	8	0.22
(1,78)	1:87:A:PHE:HA	1:151:A:VAL:HG11	12	0.22
(1,78)	1:87:A:PHE:HA	1:151:A:VAL:HG12	12	0.22
(1,78)	1:87:A:PHE:HA	1:151:A:VAL:HG13	12	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,53)	1:87:A:PHE:HA	1:150:A:TRP:HA	13	0.22
(1,51)	1:90:A:ALA:H	1:91:A:ARG:HA	8	0.22
(1,45)	1:94:A:ARG:H	1:125:A:PHE:H	12	0.22
(1,38)	1:93:A:GLU:H	1:123:A:THR:HG21	20	0.22
(1,38)	1:93:A:GLU:H	1:123:A:THR:HG22	20	0.22
(1,38)	1:93:A:GLU:H	1:123:A:THR:HG23	20	0.22
(1,28)	1:146:A:ARG:HE	1:147:A:VAL:HG21	9	0.22
(1,28)	1:146:A:ARG:HE	1:147:A:VAL:HG22	9	0.22
(1,28)	1:146:A:ARG:HE	1:147:A:VAL:HG23	9	0.22
(1,24)	1:69:A:LEU:HB2	1:70:A:ASN:HB3	1	0.22
(1,24)	1:69:A:LEU:HB3	1:70:A:ASN:HB3	1	0.22
(1,16)	1:56:A:LEU:HD11	1:72:A:ILE:H	7	0.22
(1,16)	1:56:A:LEU:HD12	1:72:A:ILE:H	7	0.22
(1,16)	1:56:A:LEU:HD13	1:72:A:ILE:H	7	0.22
(1,16)	1:56:A:LEU:HD21	1:72:A:ILE:H	7	0.22
(1,16)	1:56:A:LEU:HD22	1:72:A:ILE:H	7	0.22
(1,16)	1:56:A:LEU:HD23	1:72:A:ILE:H	7	0.22
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD11	11	0.21
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD12	11	0.21
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD13	11	0.21
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD21	11	0.21
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD22	11	0.21
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD23	11	0.21
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD11	11	0.21
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD12	11	0.21
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD13	11	0.21
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD21	11	0.21
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD22	11	0.21
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD23	11	0.21
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD11	13	0.21
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD12	13	0.21
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD13	13	0.21
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD21	13	0.21
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD22	13	0.21
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD23	13	0.21
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD11	13	0.21
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD12	13	0.21
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD13	13	0.21
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD21	13	0.21
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD22	13	0.21
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD23	13	0.21
(1,1190)	1:146:A:ARG:HB2	1:151:A:VAL:HG11	15	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1190)	1:146:A:ARG:HB2	1:151:A:VAL:HG12	15	0.21
(1,1190)	1:146:A:ARG:HB2	1:151:A:VAL:HG13	15	0.21
(1,1190)	1:146:A:ARG:HB2	1:151:A:VAL:HG21	15	0.21
(1,1190)	1:146:A:ARG:HB2	1:151:A:VAL:HG22	15	0.21
(1,1190)	1:146:A:ARG:HB2	1:151:A:VAL:HG23	15	0.21
(1,1190)	1:146:A:ARG:HB3	1:151:A:VAL:HG11	15	0.21
(1,1190)	1:146:A:ARG:HB3	1:151:A:VAL:HG12	15	0.21
(1,1190)	1:146:A:ARG:HB3	1:151:A:VAL:HG13	15	0.21
(1,1190)	1:146:A:ARG:HB3	1:151:A:VAL:HG21	15	0.21
(1,1190)	1:146:A:ARG:HB3	1:151:A:VAL:HG22	15	0.21
(1,1190)	1:146:A:ARG:HB3	1:151:A:VAL:HG23	15	0.21
(1,1176)	1:124:A:HIS:HD2	1:127:A:LEU:HD11	13	0.21
(1,1176)	1:124:A:HIS:HD2	1:127:A:LEU:HD12	13	0.21
(1,1176)	1:124:A:HIS:HD2	1:127:A:LEU:HD13	13	0.21
(1,1176)	1:124:A:HIS:HD2	1:127:A:LEU:HD21	13	0.21
(1,1176)	1:124:A:HIS:HD2	1:127:A:LEU:HD22	13	0.21
(1,1176)	1:124:A:HIS:HD2	1:127:A:LEU:HD23	13	0.21
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD11	8	0.21
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD12	8	0.21
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD13	8	0.21
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD21	8	0.21
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD22	8	0.21
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD23	8	0.21
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD11	8	0.21
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD12	8	0.21
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD13	8	0.21
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD21	8	0.21
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD22	8	0.21
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD23	8	0.21
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD11	8	0.21
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD12	8	0.21
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD13	8	0.21
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD21	8	0.21
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD22	8	0.21
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD23	8	0.21
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD11	8	0.21
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD12	8	0.21
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD13	8	0.21
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD21	8	0.21
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD22	8	0.21
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD23	8	0.21
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD11	8	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD12	8	0.21
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD13	8	0.21
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD21	8	0.21
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD22	8	0.21
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD23	8	0.21
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD11	8	0.21
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD12	8	0.21
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD13	8	0.21
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD21	8	0.21
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD22	8	0.21
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD23	8	0.21
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB1	14	0.21
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB2	14	0.21
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB3	14	0.21
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB1	14	0.21
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB2	14	0.21
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB3	14	0.21
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB1	14	0.21
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB2	14	0.21
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB3	14	0.21
(1,987)	1:146:A:ARG:HG2	1:147:A:VAL:HA	3	0.21
(1,987)	1:146:A:ARG:HG3	1:147:A:VAL:HA	3	0.21
(1,987)	1:146:A:ARG:HG2	1:147:A:VAL:HA	12	0.21
(1,987)	1:146:A:ARG:HG3	1:147:A:VAL:HA	12	0.21
(1,987)	1:146:A:ARG:HG2	1:147:A:VAL:HA	14	0.21
(1,987)	1:146:A:ARG:HG3	1:147:A:VAL:HA	14	0.21
(1,983)	1:80:A:PRO:HA	1:164:A:GLY:HA2	5	0.21
(1,983)	1:80:A:PRO:HA	1:164:A:GLY:HA3	5	0.21
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD11	19	0.21
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD12	19	0.21
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD13	19	0.21
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD21	19	0.21
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD22	19	0.21
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD23	19	0.21
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD11	19	0.21
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD12	19	0.21
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD13	19	0.21
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD21	19	0.21
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD22	19	0.21
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD23	19	0.21
(1,970)	1:138:A:GLY:HA3	1:140:A:THR:HG21	13	0.21
(1,970)	1:138:A:GLY:HA3	1:140:A:THR:HG22	13	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,970)	1:138:A:GLY:HA3	1:140:A:THR:HG23	13	0.21
(1,968)	1:73:A:ALA:HB1	1:75:A:GLU:HB2	19	0.21
(1,968)	1:73:A:ALA:HB1	1:75:A:GLU:HB3	19	0.21
(1,968)	1:73:A:ALA:HB2	1:75:A:GLU:HB2	19	0.21
(1,968)	1:73:A:ALA:HB2	1:75:A:GLU:HB3	19	0.21
(1,968)	1:73:A:ALA:HB3	1:75:A:GLU:HB2	19	0.21
(1,968)	1:73:A:ALA:HB3	1:75:A:GLU:HB3	19	0.21
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG21	15	0.21
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG22	15	0.21
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG23	15	0.21
(1,949)	1:102:A:MET:HB2	1:104:A:THR:H	10	0.21
(1,949)	1:102:A:MET:HB3	1:104:A:THR:H	10	0.21
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG21	7	0.21
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG22	7	0.21
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG23	7	0.21
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG21	7	0.21
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG22	7	0.21
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG23	7	0.21
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG21	13	0.21
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG22	13	0.21
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG23	13	0.21
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG21	13	0.21
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG22	13	0.21
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG23	13	0.21
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG21	20	0.21
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG22	20	0.21
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG23	20	0.21
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG21	20	0.21
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG22	20	0.21
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG23	20	0.21
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB1	7	0.21
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB2	7	0.21
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB3	7	0.21
(1,830)	1:56:A:LEU:H	1:57:A:ALA:HA	9	0.21
(1,822)	1:75:A:GLU:H	1:77:A:LEU:HB2	20	0.21
(1,822)	1:75:A:GLU:H	1:77:A:LEU:HB3	20	0.21
(1,805)	1:41:A:GLN:HE21	1:42:A:LEU:HG	9	0.21
(1,769)	1:68:A:VAL:H	1:72:A:ILE:HD11	18	0.21
(1,769)	1:68:A:VAL:H	1:72:A:ILE:HD12	18	0.21
(1,769)	1:68:A:VAL:H	1:72:A:ILE:HD13	18	0.21
(1,769)	1:68:A:VAL:H	1:72:A:ILE:HD11	19	0.21
(1,769)	1:68:A:VAL:H	1:72:A:ILE:HD12	19	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,769)	1:68:A:VAL:H	1:72:A:ILE:HD13	19	0.21
(1,752)	1:140:A:THR:HG21	1:141:A:GLU:H	13	0.21
(1,752)	1:140:A:THR:HG22	1:141:A:GLU:H	13	0.21
(1,752)	1:140:A:THR:HG23	1:141:A:GLU:H	13	0.21
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB1	20	0.21
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB2	20	0.21
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB3	20	0.21
(1,733)	1:88:A:LEU:HD11	1:94:A:ARG:HA	4	0.21
(1,733)	1:88:A:LEU:HD12	1:94:A:ARG:HA	4	0.21
(1,733)	1:88:A:LEU:HD13	1:94:A:ARG:HA	4	0.21
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD11	15	0.21
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD12	15	0.21
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD13	15	0.21
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD21	15	0.21
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD22	15	0.21
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD23	15	0.21
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD11	15	0.21
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD12	15	0.21
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD13	15	0.21
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD21	15	0.21
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD22	15	0.21
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD23	15	0.21
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD11	15	0.21
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD12	15	0.21
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD13	15	0.21
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD21	15	0.21
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD22	15	0.21
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD23	15	0.21
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD11	19	0.21
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD12	19	0.21
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD13	19	0.21
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD21	19	0.21
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD22	19	0.21
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD23	19	0.21
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD11	19	0.21
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD12	19	0.21
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD13	19	0.21
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD21	19	0.21
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD22	19	0.21
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD23	19	0.21
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD11	19	0.21
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD12	19	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD13	19	0.21
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD21	19	0.21
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD22	19	0.21
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD23	19	0.21
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD11	17	0.21
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD12	17	0.21
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD13	17	0.21
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD21	17	0.21
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD22	17	0.21
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD23	17	0.21
(1,665)	1:101:A:SER:HA	1:102:A:MET:HG2	1	0.21
(1,665)	1:101:A:SER:HA	1:102:A:MET:HG3	1	0.21
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG11	7	0.21
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG12	7	0.21
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG13	7	0.21
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG21	7	0.21
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG22	7	0.21
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG23	7	0.21
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG11	8	0.21
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG12	8	0.21
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG13	8	0.21
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG21	8	0.21
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG22	8	0.21
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG23	8	0.21
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG11	19	0.21
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG12	19	0.21
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG13	19	0.21
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG21	19	0.21
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG22	19	0.21
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG23	19	0.21
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG21	14	0.21
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG22	14	0.21
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG23	14	0.21
(1,635)	1:82:A:VAL:HB	1:83:A:ARG:HA	1	0.21
(1,616)	1:38:A:MET:HA	1:42:A:LEU:HB2	5	0.21
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD21	18	0.21
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD22	18	0.21
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD23	18	0.21
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD21	18	0.21
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD22	18	0.21
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD23	18	0.21
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD21	18	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD22	18	0.21
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD23	18	0.21
(1,592)	1:57:A:ALA:HA	1:158:A:HIS:HD2	2	0.21
(1,592)	1:57:A:ALA:HA	1:158:A:HIS:HD2	3	0.21
(1,548)	1:67:A:ALA:HB1	1:68:A:VAL:HA	9	0.21
(1,548)	1:67:A:ALA:HB2	1:68:A:VAL:HA	9	0.21
(1,548)	1:67:A:ALA:HB3	1:68:A:VAL:HA	9	0.21
(1,534)	1:84:A:ALA:HB1	1:132:A:ARG:HE	16	0.21
(1,534)	1:84:A:ALA:HB2	1:132:A:ARG:HE	16	0.21
(1,534)	1:84:A:ALA:HB3	1:132:A:ARG:HE	16	0.21
(1,511)	1:146:A:ARG:HE	1:147:A:VAL:HG11	11	0.21
(1,511)	1:146:A:ARG:HE	1:147:A:VAL:HG12	11	0.21
(1,511)	1:146:A:ARG:HE	1:147:A:VAL:HG13	11	0.21
(1,509)	1:43:A:ILE:HD11	1:53:A:LEU:H	10	0.21
(1,509)	1:43:A:ILE:HD12	1:53:A:LEU:H	10	0.21
(1,509)	1:43:A:ILE:HD13	1:53:A:LEU:H	10	0.21
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB1	11	0.21
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB2	11	0.21
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB3	11	0.21
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB1	11	0.21
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB2	11	0.21
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB3	11	0.21
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB1	11	0.21
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB2	11	0.21
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB3	11	0.21
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB1	11	0.21
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB2	11	0.21
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB3	11	0.21
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB1	11	0.21
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB2	11	0.21
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB3	11	0.21
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB1	11	0.21
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB2	11	0.21
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB3	11	0.21
(1,485)	1:44:A:GLU:HG2	1:45:A:ARG:HA	7	0.21
(1,485)	1:44:A:GLU:HG3	1:45:A:ARG:HA	7	0.21
(1,446)	1:41:A:GLN:HG3	1:42:A:LEU:HA	17	0.21
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG21	6	0.21
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG22	6	0.21
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG23	6	0.21
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG21	6	0.21
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG22	6	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG23	6	0.21
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG21	14	0.21
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG22	14	0.21
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG23	14	0.21
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG21	14	0.21
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG22	14	0.21
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG23	14	0.21
(1,424)	1:70:A:ASN:HA	1:74:A:ASN:HD21	20	0.21
(1,394)	1:39:A:ARG:HA	1:41:A:GLN:HG3	8	0.21
(1,371)	1:47:A:GLN:H	1:47:A:GLN:HE21	1	0.21
(1,369)	1:44:A:GLU:HG2	1:45:A:ARG:H	11	0.21
(1,369)	1:44:A:GLU:HG3	1:45:A:ARG:H	11	0.21
(1,335)	1:76:A:ALA:HB1	1:78:A:ASP:H	19	0.21
(1,335)	1:76:A:ALA:HB2	1:78:A:ASP:H	19	0.21
(1,335)	1:76:A:ALA:HB3	1:78:A:ASP:H	19	0.21
(1,316)	1:41:A:GLN:HE21	1:42:A:LEU:H	2	0.21
(1,316)	1:41:A:GLN:HE21	1:42:A:LEU:H	7	0.21
(1,316)	1:41:A:GLN:HE21	1:42:A:LEU:H	8	0.21
(1,309)	1:146:A:ARG:HD2	1:147:A:VAL:H	18	0.21
(1,309)	1:146:A:ARG:HD3	1:147:A:VAL:H	18	0.21
(1,281)	1:115:A:SER:HA	1:116:A:MET:HA	18	0.21
(1,272)	1:94:A:ARG:H	1:124:A:HIS:HA	19	0.21
(1,231)	1:95:A:LEU:HD21	1:96:A:ALA:H	2	0.21
(1,231)	1:95:A:LEU:HD22	1:96:A:ALA:H	2	0.21
(1,231)	1:95:A:LEU:HD23	1:96:A:ALA:H	2	0.21
(1,216)	1:60:A:ALA:H	1:63:A:ARG:HD2	17	0.21
(1,216)	1:60:A:ALA:H	1:63:A:ARG:HD3	17	0.21
(1,214)	1:98:A:ALA:H	1:103:A:LEU:H	6	0.21
(1,214)	1:98:A:ALA:H	1:103:A:LEU:H	8	0.21
(1,208)	1:97:A:HIS:HB2	1:131:A:GLY:H	15	0.21
(1,194)	1:64:A:LYS:HE2	1:69:A:LEU:HD21	7	0.21
(1,194)	1:64:A:LYS:HE2	1:69:A:LEU:HD22	7	0.21
(1,194)	1:64:A:LYS:HE2	1:69:A:LEU:HD23	7	0.21
(1,194)	1:64:A:LYS:HE3	1:69:A:LEU:HD21	7	0.21
(1,194)	1:64:A:LYS:HE3	1:69:A:LEU:HD22	7	0.21
(1,194)	1:64:A:LYS:HE3	1:69:A:LEU:HD23	7	0.21
(1,185)	1:63:A:ARG:H	1:63:A:ARG:HD2	4	0.21
(1,185)	1:63:A:ARG:H	1:63:A:ARG:HD3	4	0.21
(1,160)	1:97:A:HIS:HB3	1:150:A:TRP:HZ3	19	0.21
(1,148)	1:75:A:GLU:HG2	1:76:A:ALA:HB1	20	0.21
(1,148)	1:75:A:GLU:HG2	1:76:A:ALA:HB2	20	0.21
(1,148)	1:75:A:GLU:HG2	1:76:A:ALA:HB3	20	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,148)	1:75:A:GLU:HG3	1:76:A:ALA:HB1	20	0.21
(1,148)	1:75:A:GLU:HG3	1:76:A:ALA:HB2	20	0.21
(1,148)	1:75:A:GLU:HG3	1:76:A:ALA:HB3	20	0.21
(1,147)	1:64:A:LYS:HD2	1:65:A:ASP:H	1	0.21
(1,147)	1:64:A:LYS:HD3	1:65:A:ASP:H	1	0.21
(1,147)	1:64:A:LYS:HD2	1:65:A:ASP:H	17	0.21
(1,147)	1:64:A:LYS:HD3	1:65:A:ASP:H	17	0.21
(1,134)	1:103:A:LEU:H	1:105:A:VAL:H	6	0.21
(1,134)	1:103:A:LEU:H	1:105:A:VAL:H	12	0.21
(1,134)	1:103:A:LEU:H	1:105:A:VAL:H	20	0.21
(1,125)	1:94:A:ARG:HH21	1:104:A:THR:HB	9	0.21
(1,125)	1:94:A:ARG:HH22	1:104:A:THR:HB	9	0.21
(1,112)	1:88:A:LEU:HB2	1:150:A:TRP:HB3	5	0.21
(1,112)	1:88:A:LEU:HB3	1:150:A:TRP:HB3	5	0.21
(1,112)	1:88:A:LEU:HB2	1:150:A:TRP:HB3	17	0.21
(1,112)	1:88:A:LEU:HB3	1:150:A:TRP:HB3	17	0.21
(1,107)	1:56:A:LEU:HD11	1:58:A:ALA:H	17	0.21
(1,107)	1:56:A:LEU:HD12	1:58:A:ALA:H	17	0.21
(1,107)	1:56:A:LEU:HD13	1:58:A:ALA:H	17	0.21
(1,107)	1:56:A:LEU:HD21	1:58:A:ALA:H	17	0.21
(1,107)	1:56:A:LEU:HD22	1:58:A:ALA:H	17	0.21
(1,107)	1:56:A:LEU:HD23	1:58:A:ALA:H	17	0.21
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG21	6	0.21
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG22	6	0.21
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG23	6	0.21
(1,73)	1:90:A:ALA:HB1	1:149:A:GLY:HA2	19	0.21
(1,73)	1:90:A:ALA:HB2	1:149:A:GLY:HA2	19	0.21
(1,73)	1:90:A:ALA:HB3	1:149:A:GLY:HA2	19	0.21
(1,53)	1:87:A:PHE:HA	1:150:A:TRP:HA	17	0.21
(1,51)	1:90:A:ALA:H	1:91:A:ARG:HA	5	0.21
(1,51)	1:90:A:ALA:H	1:91:A:ARG:HA	6	0.21
(1,43)	1:83:A:ARG:HA	1:155:A:LEU:HA	6	0.21
(1,26)	1:144:A:ASP:HB2	1:145:A:GLU:HG2	13	0.21
(1,26)	1:144:A:ASP:HB2	1:145:A:GLU:HG3	13	0.21
(1,26)	1:144:A:ASP:HB3	1:145:A:GLU:HG2	13	0.21
(1,26)	1:144:A:ASP:HB3	1:145:A:GLU:HG3	13	0.21
(1,7)	1:97:A:HIS:HA	1:150:A:TRP:HZ3	7	0.21
(1,1176)	1:124:A:HIS:HD2	1:127:A:LEU:HD11	11	0.2
(1,1176)	1:124:A:HIS:HD2	1:127:A:LEU:HD12	11	0.2
(1,1176)	1:124:A:HIS:HD2	1:127:A:LEU:HD13	11	0.2
(1,1176)	1:124:A:HIS:HD2	1:127:A:LEU:HD21	11	0.2
(1,1176)	1:124:A:HIS:HD2	1:127:A:LEU:HD22	11	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1176)	1:124:A:HIS:HD2	1:127:A:LEU:HD23	11	0.2
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD11	15	0.2
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD12	15	0.2
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD13	15	0.2
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD21	15	0.2
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD22	15	0.2
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD23	15	0.2
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD11	15	0.2
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD12	15	0.2
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD13	15	0.2
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD21	15	0.2
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD22	15	0.2
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD23	15	0.2
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD11	11	0.2
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD12	11	0.2
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD13	11	0.2
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD21	11	0.2
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD22	11	0.2
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD23	11	0.2
(1,1131)	1:81:A:ASP:HB2	1:163:A:ARG:HH11	6	0.2
(1,1131)	1:81:A:ASP:HB2	1:163:A:ARG:HH12	6	0.2
(1,1131)	1:81:A:ASP:HB3	1:163:A:ARG:HH11	6	0.2
(1,1131)	1:81:A:ASP:HB3	1:163:A:ARG:HH12	6	0.2
(1,1120)	1:77:A:LEU:HD11	1:98:A:ALA:H	5	0.2
(1,1120)	1:77:A:LEU:HD12	1:98:A:ALA:H	5	0.2
(1,1120)	1:77:A:LEU:HD13	1:98:A:ALA:H	5	0.2
(1,1120)	1:77:A:LEU:HD21	1:98:A:ALA:H	5	0.2
(1,1120)	1:77:A:LEU:HD22	1:98:A:ALA:H	5	0.2
(1,1120)	1:77:A:LEU:HD23	1:98:A:ALA:H	5	0.2
(1,1120)	1:77:A:LEU:HD11	1:98:A:ALA:H	12	0.2
(1,1120)	1:77:A:LEU:HD12	1:98:A:ALA:H	12	0.2
(1,1120)	1:77:A:LEU:HD13	1:98:A:ALA:H	12	0.2
(1,1120)	1:77:A:LEU:HD21	1:98:A:ALA:H	12	0.2
(1,1120)	1:77:A:LEU:HD22	1:98:A:ALA:H	12	0.2
(1,1120)	1:77:A:LEU:HD23	1:98:A:ALA:H	12	0.2
(1,1120)	1:77:A:LEU:HD11	1:98:A:ALA:H	14	0.2
(1,1120)	1:77:A:LEU:HD12	1:98:A:ALA:H	14	0.2
(1,1120)	1:77:A:LEU:HD13	1:98:A:ALA:H	14	0.2
(1,1120)	1:77:A:LEU:HD21	1:98:A:ALA:H	14	0.2
(1,1120)	1:77:A:LEU:HD22	1:98:A:ALA:H	14	0.2
(1,1120)	1:77:A:LEU:HD23	1:98:A:ALA:H	14	0.2
(1,1118)	1:77:A:LEU:HD11	1:87:A:PHE:HE1	10	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1118)	1:77:A:LEU:HD11	1:87:A:PHE:HE2	10	0.2
(1,1118)	1:77:A:LEU:HD12	1:87:A:PHE:HE1	10	0.2
(1,1118)	1:77:A:LEU:HD12	1:87:A:PHE:HE2	10	0.2
(1,1118)	1:77:A:LEU:HD13	1:87:A:PHE:HE1	10	0.2
(1,1118)	1:77:A:LEU:HD13	1:87:A:PHE:HE2	10	0.2
(1,1118)	1:77:A:LEU:HD21	1:87:A:PHE:HE1	10	0.2
(1,1118)	1:77:A:LEU:HD21	1:87:A:PHE:HE2	10	0.2
(1,1118)	1:77:A:LEU:HD22	1:87:A:PHE:HE1	10	0.2
(1,1118)	1:77:A:LEU:HD22	1:87:A:PHE:HE2	10	0.2
(1,1118)	1:77:A:LEU:HD23	1:87:A:PHE:HE1	10	0.2
(1,1118)	1:77:A:LEU:HD23	1:87:A:PHE:HE2	10	0.2
(1,1058)	1:89:A:ASP:H	1:149:A:GLY:HA2	12	0.2
(1,1054)	1:61:A:LEU:HB2	1:65:A:ASP:H	1	0.2
(1,1054)	1:61:A:LEU:HB3	1:65:A:ASP:H	1	0.2
(1,998)	1:61:A:LEU:HA	1:65:A:ASP:H	16	0.2
(1,988)	1:66:A:THR:HG21	1:67:A:ALA:H	4	0.2
(1,988)	1:66:A:THR:HG22	1:67:A:ALA:H	4	0.2
(1,988)	1:66:A:THR:HG23	1:67:A:ALA:H	4	0.2
(1,987)	1:146:A:ARG:HG2	1:147:A:VAL:HA	19	0.2
(1,987)	1:146:A:ARG:HG3	1:147:A:VAL:HA	19	0.2
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD11	20	0.2
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD12	20	0.2
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD13	20	0.2
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD21	20	0.2
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD22	20	0.2
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD23	20	0.2
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD11	20	0.2
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD12	20	0.2
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD13	20	0.2
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD21	20	0.2
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD22	20	0.2
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD23	20	0.2
(1,972)	1:86:A:THR:HG21	1:87:A:PHE:HA	1	0.2
(1,972)	1:86:A:THR:HG22	1:87:A:PHE:HA	1	0.2
(1,972)	1:86:A:THR:HG23	1:87:A:PHE:HA	1	0.2
(1,965)	1:56:A:LEU:HG	1:57:A:ALA:HA	3	0.2
(1,959)	1:79:A:GLN:HB2	1:111:A:ALA:HA	15	0.2
(1,861)	1:59:A:THR:HG21	1:62:A:ALA:H	2	0.2
(1,861)	1:59:A:THR:HG22	1:62:A:ALA:H	2	0.2
(1,861)	1:59:A:THR:HG23	1:62:A:ALA:H	2	0.2
(1,861)	1:59:A:THR:HG21	1:62:A:ALA:H	4	0.2
(1,861)	1:59:A:THR:HG22	1:62:A:ALA:H	4	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,861)	1:59:A:THR:HG23	1:62:A:ALA:H	4	0.2
(1,861)	1:59:A:THR:HG21	1:62:A:ALA:H	10	0.2
(1,861)	1:59:A:THR:HG22	1:62:A:ALA:H	10	0.2
(1,861)	1:59:A:THR:HG23	1:62:A:ALA:H	10	0.2
(1,861)	1:59:A:THR:HG21	1:62:A:ALA:H	14	0.2
(1,861)	1:59:A:THR:HG22	1:62:A:ALA:H	14	0.2
(1,861)	1:59:A:THR:HG23	1:62:A:ALA:H	14	0.2
(1,822)	1:75:A:GLU:H	1:77:A:LEU:HB2	9	0.2
(1,822)	1:75:A:GLU:H	1:77:A:LEU:HB3	9	0.2
(1,793)	1:69:A:LEU:HD11	1:71:A:ARG:H	12	0.2
(1,793)	1:69:A:LEU:HD12	1:71:A:ARG:H	12	0.2
(1,793)	1:69:A:LEU:HD13	1:71:A:ARG:H	12	0.2
(1,767)	1:89:A:ASP:H	1:93:A:GLU:HG2	20	0.2
(1,767)	1:89:A:ASP:H	1:93:A:GLU:HG3	20	0.2
(1,752)	1:140:A:THR:HG21	1:141:A:GLU:H	14	0.2
(1,752)	1:140:A:THR:HG22	1:141:A:GLU:H	14	0.2
(1,752)	1:140:A:THR:HG23	1:141:A:GLU:H	14	0.2
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB1	9	0.2
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB2	9	0.2
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB3	9	0.2
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD11	4	0.2
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD12	4	0.2
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD13	4	0.2
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD21	4	0.2
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD22	4	0.2
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD23	4	0.2
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD11	4	0.2
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD12	4	0.2
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD13	4	0.2
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD21	4	0.2
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD22	4	0.2
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD23	4	0.2
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD11	4	0.2
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD12	4	0.2
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD13	4	0.2
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD21	4	0.2
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD22	4	0.2
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD23	4	0.2
(1,706)	1:118:A:THR:HA	1:118:A:THR:HG21	10	0.2
(1,706)	1:118:A:THR:HA	1:118:A:THR:HG22	10	0.2
(1,706)	1:118:A:THR:HA	1:118:A:THR:HG23	10	0.2
(1,699)	1:90:A:ALA:HB1	1:147:A:VAL:HB	9	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,699)	1:90:A:ALA:HB2	1:147:A:VAL:HB	9	0.2
(1,699)	1:90:A:ALA:HB3	1:147:A:VAL:HB	9	0.2
(1,695)	1:42:A:LEU:HA	1:56:A:LEU:HB2	15	0.2
(1,695)	1:42:A:LEU:HA	1:56:A:LEU:HB3	15	0.2
(1,666)	1:47:A:GLN:HB2	1:52:A:GLN:HG2	16	0.2
(1,666)	1:47:A:GLN:HB2	1:52:A:GLN:HG3	16	0.2
(1,666)	1:47:A:GLN:HB3	1:52:A:GLN:HG2	16	0.2
(1,666)	1:47:A:GLN:HB3	1:52:A:GLN:HG3	16	0.2
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG11	14	0.2
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG12	14	0.2
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG13	14	0.2
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG21	14	0.2
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG22	14	0.2
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG23	14	0.2
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG21	1	0.2
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG22	1	0.2
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG23	1	0.2
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG21	12	0.2
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG22	12	0.2
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG23	12	0.2
(1,635)	1:82:A:VAL:HB	1:83:A:ARG:HA	11	0.2
(1,608)	1:57:A:ALA:HA	1:69:A:LEU:HD11	10	0.2
(1,608)	1:57:A:ALA:HA	1:69:A:LEU:HD12	10	0.2
(1,608)	1:57:A:ALA:HA	1:69:A:LEU:HD13	10	0.2
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD21	3	0.2
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD22	3	0.2
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD23	3	0.2
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD21	3	0.2
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD22	3	0.2
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD23	3	0.2
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD21	3	0.2
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD22	3	0.2
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD23	3	0.2
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD21	19	0.2
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD22	19	0.2
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD23	19	0.2
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD21	19	0.2
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD22	19	0.2
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD23	19	0.2
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD21	19	0.2
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD22	19	0.2
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD23	19	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,568)	1:111:A:ALA:HA	1:114:A:LEU:H	14	0.2
(1,568)	1:111:A:ALA:HA	1:114:A:LEU:H	17	0.2
(1,548)	1:67:A:ALA:HB1	1:68:A:VAL:HA	17	0.2
(1,548)	1:67:A:ALA:HB2	1:68:A:VAL:HA	17	0.2
(1,548)	1:67:A:ALA:HB3	1:68:A:VAL:HA	17	0.2
(1,547)	1:61:A:LEU:HD21	1:64:A:LYS:HA	18	0.2
(1,547)	1:61:A:LEU:HD22	1:64:A:LYS:HA	18	0.2
(1,547)	1:61:A:LEU:HD23	1:64:A:LYS:HA	18	0.2
(1,531)	1:111:A:ALA:HB1	1:114:A:LEU:HB2	12	0.2
(1,531)	1:111:A:ALA:HB1	1:114:A:LEU:HB3	12	0.2
(1,531)	1:111:A:ALA:HB2	1:114:A:LEU:HB2	12	0.2
(1,531)	1:111:A:ALA:HB2	1:114:A:LEU:HB3	12	0.2
(1,531)	1:111:A:ALA:HB3	1:114:A:LEU:HB2	12	0.2
(1,531)	1:111:A:ALA:HB3	1:114:A:LEU:HB3	12	0.2
(1,511)	1:146:A:ARG:HE	1:147:A:VAL:HG11	13	0.2
(1,511)	1:146:A:ARG:HE	1:147:A:VAL:HG12	13	0.2
(1,511)	1:146:A:ARG:HE	1:147:A:VAL:HG13	13	0.2
(1,511)	1:146:A:ARG:HE	1:147:A:VAL:HG11	19	0.2
(1,511)	1:146:A:ARG:HE	1:147:A:VAL:HG12	19	0.2
(1,511)	1:146:A:ARG:HE	1:147:A:VAL:HG13	19	0.2
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB1	12	0.2
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB2	12	0.2
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB3	12	0.2
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB1	12	0.2
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB2	12	0.2
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB3	12	0.2
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB1	12	0.2
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB2	12	0.2
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB3	12	0.2
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB1	12	0.2
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB2	12	0.2
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB3	12	0.2
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB1	12	0.2
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB2	12	0.2
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB3	12	0.2
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB1	12	0.2
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB2	12	0.2
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB3	12	0.2
(1,500)	1:43:A:ILE:HG21	1:47:A:GLN:H	3	0.2
(1,500)	1:43:A:ILE:HG22	1:47:A:GLN:H	3	0.2
(1,500)	1:43:A:ILE:HG23	1:47:A:GLN:H	3	0.2
(1,482)	1:43:A:ILE:HG21	1:44:A:GLU:H	15	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,482)	1:43:A:ILE:HG22	1:44:A:GLU:H	15	0.2
(1,482)	1:43:A:ILE:HG23	1:44:A:GLU:H	15	0.2
(1,461)	1:43:A:ILE:HD11	1:47:A:GLN:H	12	0.2
(1,461)	1:43:A:ILE:HD12	1:47:A:GLN:H	12	0.2
(1,461)	1:43:A:ILE:HD13	1:47:A:GLN:H	12	0.2
(1,442)	1:141:A:GLU:HB2	1:145:A:GLU:H	5	0.2
(1,442)	1:141:A:GLU:HB3	1:145:A:GLU:H	5	0.2
(1,442)	1:141:A:GLU:HB2	1:145:A:GLU:H	8	0.2
(1,442)	1:141:A:GLU:HB3	1:145:A:GLU:H	8	0.2
(1,440)	1:65:A:ASP:HA	1:147:A:VAL:HG11	6	0.2
(1,440)	1:65:A:ASP:HA	1:147:A:VAL:HG12	6	0.2
(1,440)	1:65:A:ASP:HA	1:147:A:VAL:HG13	6	0.2
(1,440)	1:65:A:ASP:HA	1:147:A:VAL:HG11	8	0.2
(1,440)	1:65:A:ASP:HA	1:147:A:VAL:HG12	8	0.2
(1,440)	1:65:A:ASP:HA	1:147:A:VAL:HG13	8	0.2
(1,436)	1:90:A:ALA:HB1	1:148:A:LEU:H	8	0.2
(1,436)	1:90:A:ALA:HB2	1:148:A:LEU:H	8	0.2
(1,436)	1:90:A:ALA:HB3	1:148:A:LEU:H	8	0.2
(1,432)	1:131:A:GLY:H	1:132:A:ARG:HG2	3	0.2
(1,432)	1:131:A:GLY:H	1:132:A:ARG:HG3	3	0.2
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD21	13	0.2
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD22	13	0.2
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD23	13	0.2
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD21	13	0.2
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD22	13	0.2
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD23	13	0.2
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD21	13	0.2
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD22	13	0.2
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD23	13	0.2
(1,394)	1:39:A:ARG:HA	1:41:A:GLN:HG3	20	0.2
(1,358)	1:51:A:GLU:H	1:52:A:GLN:HB2	3	0.2
(1,358)	1:51:A:GLU:H	1:52:A:GLN:HB3	3	0.2
(1,335)	1:76:A:ALA:HB1	1:78:A:ASP:H	8	0.2
(1,335)	1:76:A:ALA:HB2	1:78:A:ASP:H	8	0.2
(1,335)	1:76:A:ALA:HB3	1:78:A:ASP:H	8	0.2
(1,331)	1:66:A:THR:H	1:147:A:VAL:HG21	5	0.2
(1,331)	1:66:A:THR:H	1:147:A:VAL:HG22	5	0.2
(1,331)	1:66:A:THR:H	1:147:A:VAL:HG23	5	0.2
(1,331)	1:66:A:THR:H	1:147:A:VAL:HG21	14	0.2
(1,331)	1:66:A:THR:H	1:147:A:VAL:HG22	14	0.2
(1,331)	1:66:A:THR:H	1:147:A:VAL:HG23	14	0.2
(1,331)	1:66:A:THR:H	1:147:A:VAL:HG21	19	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,331)	1:66:A:THR:H	1:147:A:VAL:HG22	19	0.2
(1,331)	1:66:A:THR:H	1:147:A:VAL:HG23	19	0.2
(1,328)	1:47:A:GLN:HE21	1:52:A:GLN:H	20	0.2
(1,321)	1:65:A:ASP:HB3	1:66:A:THR:H	9	0.2
(1,319)	1:66:A:THR:HG21	1:71:A:ARG:H	3	0.2
(1,319)	1:66:A:THR:HG22	1:71:A:ARG:H	3	0.2
(1,319)	1:66:A:THR:HG23	1:71:A:ARG:H	3	0.2
(1,319)	1:66:A:THR:HG21	1:71:A:ARG:H	5	0.2
(1,319)	1:66:A:THR:HG22	1:71:A:ARG:H	5	0.2
(1,319)	1:66:A:THR:HG23	1:71:A:ARG:H	5	0.2
(1,316)	1:41:A:GLN:HE21	1:42:A:LEU:H	14	0.2
(1,296)	1:80:A:PRO:HG2	1:163:A:ARG:HH11	9	0.2
(1,296)	1:80:A:PRO:HG2	1:163:A:ARG:HH12	9	0.2
(1,296)	1:80:A:PRO:HG3	1:163:A:ARG:HH11	9	0.2
(1,296)	1:80:A:PRO:HG3	1:163:A:ARG:HH12	9	0.2
(1,251)	1:88:A:LEU:HG	1:150:A:TRP:H	4	0.2
(1,251)	1:88:A:LEU:HG	1:150:A:TRP:H	10	0.2
(1,231)	1:95:A:LEU:HD21	1:96:A:ALA:H	5	0.2
(1,231)	1:95:A:LEU:HD22	1:96:A:ALA:H	5	0.2
(1,231)	1:95:A:LEU:HD23	1:96:A:ALA:H	5	0.2
(1,227)	1:82:A:VAL:HA	1:84:A:ALA:H	20	0.2
(1,193)	1:76:A:ALA:HA	1:79:A:GLN:HE22	16	0.2
(1,185)	1:63:A:ARG:H	1:63:A:ARG:HD2	14	0.2
(1,185)	1:63:A:ARG:H	1:63:A:ARG:HD3	14	0.2
(1,160)	1:97:A:HIS:HB3	1:150:A:TRP:HZ3	12	0.2
(1,147)	1:64:A:LYS:HD2	1:65:A:ASP:H	6	0.2
(1,147)	1:64:A:LYS:HD3	1:65:A:ASP:H	6	0.2
(1,133)	1:65:A:ASP:HA	1:147:A:VAL:HG21	13	0.2
(1,133)	1:65:A:ASP:HA	1:147:A:VAL:HG22	13	0.2
(1,133)	1:65:A:ASP:HA	1:147:A:VAL:HG23	13	0.2
(1,122)	1:94:A:ARG:HG2	1:124:A:HIS:H	5	0.2
(1,122)	1:94:A:ARG:HG3	1:124:A:HIS:H	5	0.2
(1,115)	1:94:A:ARG:HA	1:124:A:HIS:H	18	0.2
(1,97)	1:93:A:GLU:HB2	1:124:A:HIS:H	8	0.2
(1,97)	1:93:A:GLU:HB3	1:124:A:HIS:H	8	0.2
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG21	20	0.2
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG22	20	0.2
(1,92)	1:66:A:THR:HA	1:147:A:VAL:HG23	20	0.2
(1,86)	1:91:A:ARG:HG2	1:93:A:GLU:H	1	0.2
(1,86)	1:91:A:ARG:HG3	1:93:A:GLU:H	1	0.2
(1,77)	1:88:A:LEU:HD11	1:124:A:HIS:H	3	0.2
(1,77)	1:88:A:LEU:HD12	1:124:A:HIS:H	3	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,77)	1:88:A:LEU:HD13	1:124:A:HIS:H	3	0.2
(1,70)	1:45:A:ARG:HD2	1:47:A:GLN:H	5	0.2
(1,70)	1:45:A:ARG:HD3	1:47:A:GLN:H	5	0.2
(1,70)	1:45:A:ARG:HD2	1:47:A:GLN:H	8	0.2
(1,70)	1:45:A:ARG:HD3	1:47:A:GLN:H	8	0.2
(1,51)	1:90:A:ALA:H	1:91:A:ARG:HA	4	0.2
(1,50)	1:150:A:TRP:HA	1:151:A:VAL:HB	4	0.2
(1,50)	1:150:A:TRP:HA	1:151:A:VAL:HB	12	0.2
(1,48)	1:65:A:ASP:HB3	1:68:A:VAL:HA	3	0.2
(1,47)	1:70:A:ASN:H	1:71:A:ARG:HE	12	0.2
(1,29)	1:87:A:PHE:HE1	1:96:A:ALA:H	10	0.2
(1,29)	1:87:A:PHE:HE2	1:96:A:ALA:H	10	0.2
(1,16)	1:56:A:LEU:HD11	1:72:A:ILE:H	3	0.2
(1,16)	1:56:A:LEU:HD12	1:72:A:ILE:H	3	0.2
(1,16)	1:56:A:LEU:HD13	1:72:A:ILE:H	3	0.2
(1,16)	1:56:A:LEU:HD21	1:72:A:ILE:H	3	0.2
(1,16)	1:56:A:LEU:HD22	1:72:A:ILE:H	3	0.2
(1,16)	1:56:A:LEU:HD23	1:72:A:ILE:H	3	0.2
(1,7)	1:97:A:HIS:HA	1:150:A:TRP:HZ3	16	0.2
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG21	13	0.19
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG22	13	0.19
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG23	13	0.19
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG21	13	0.19
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG22	13	0.19
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG23	13	0.19
(1,1172)	1:95:A:LEU:HD11	1:96:A:ALA:H	11	0.19
(1,1172)	1:95:A:LEU:HD12	1:96:A:ALA:H	11	0.19
(1,1172)	1:95:A:LEU:HD13	1:96:A:ALA:H	11	0.19
(1,1172)	1:95:A:LEU:HD21	1:96:A:ALA:H	11	0.19
(1,1172)	1:95:A:LEU:HD22	1:96:A:ALA:H	11	0.19
(1,1172)	1:95:A:LEU:HD23	1:96:A:ALA:H	11	0.19
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD11	20	0.19
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD12	20	0.19
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD13	20	0.19
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD21	20	0.19
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD22	20	0.19
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD23	20	0.19
(1,1120)	1:77:A:LEU:HD11	1:98:A:ALA:H	7	0.19
(1,1120)	1:77:A:LEU:HD12	1:98:A:ALA:H	7	0.19
(1,1120)	1:77:A:LEU:HD13	1:98:A:ALA:H	7	0.19
(1,1120)	1:77:A:LEU:HD21	1:98:A:ALA:H	7	0.19
(1,1120)	1:77:A:LEU:HD22	1:98:A:ALA:H	7	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1120)	1:77:A:LEU:HD23	1:98:A:ALA:H	7	0.19
(1,1120)	1:77:A:LEU:HD11	1:98:A:ALA:H	15	0.19
(1,1120)	1:77:A:LEU:HD12	1:98:A:ALA:H	15	0.19
(1,1120)	1:77:A:LEU:HD13	1:98:A:ALA:H	15	0.19
(1,1120)	1:77:A:LEU:HD21	1:98:A:ALA:H	15	0.19
(1,1120)	1:77:A:LEU:HD22	1:98:A:ALA:H	15	0.19
(1,1120)	1:77:A:LEU:HD23	1:98:A:ALA:H	15	0.19
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG11	10	0.19
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG12	10	0.19
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG13	10	0.19
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG21	10	0.19
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG22	10	0.19
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG23	10	0.19
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG11	4	0.19
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG12	4	0.19
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG13	4	0.19
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG21	4	0.19
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG22	4	0.19
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG23	4	0.19
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG11	9	0.19
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG12	9	0.19
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG13	9	0.19
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG21	9	0.19
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG22	9	0.19
(1,1081)	1:61:A:LEU:HA	1:68:A:VAL:HG23	9	0.19
(1,1058)	1:89:A:ASP:H	1:149:A:GLY:HA2	17	0.19
(1,1009)	1:80:A:PRO:HB2	1:164:A:GLY:HA2	16	0.19
(1,1009)	1:80:A:PRO:HB2	1:164:A:GLY:HA3	16	0.19
(1,1009)	1:80:A:PRO:HB3	1:164:A:GLY:HA2	16	0.19
(1,1009)	1:80:A:PRO:HB3	1:164:A:GLY:HA3	16	0.19
(1,1007)	1:95:A:LEU:HB2	1:120:A:LEU:HD11	6	0.19
(1,1007)	1:95:A:LEU:HB2	1:120:A:LEU:HD12	6	0.19
(1,1007)	1:95:A:LEU:HB2	1:120:A:LEU:HD13	6	0.19
(1,1007)	1:95:A:LEU:HB2	1:120:A:LEU:HD21	6	0.19
(1,1007)	1:95:A:LEU:HB2	1:120:A:LEU:HD22	6	0.19
(1,1007)	1:95:A:LEU:HB2	1:120:A:LEU:HD23	6	0.19
(1,1007)	1:95:A:LEU:HB3	1:120:A:LEU:HD11	6	0.19
(1,1007)	1:95:A:LEU:HB3	1:120:A:LEU:HD12	6	0.19
(1,1007)	1:95:A:LEU:HB3	1:120:A:LEU:HD13	6	0.19
(1,1007)	1:95:A:LEU:HB3	1:120:A:LEU:HD21	6	0.19
(1,1007)	1:95:A:LEU:HB3	1:120:A:LEU:HD22	6	0.19
(1,1007)	1:95:A:LEU:HB3	1:120:A:LEU:HD23	6	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD11	4	0.19
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD12	4	0.19
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD13	4	0.19
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD21	4	0.19
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD22	4	0.19
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD23	4	0.19
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD11	4	0.19
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD12	4	0.19
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD13	4	0.19
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD21	4	0.19
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD22	4	0.19
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD23	4	0.19
(1,973)	1:119:A:GLU:HB2	1:122:A:THR:H	20	0.19
(1,973)	1:119:A:GLU:HB3	1:122:A:THR:H	20	0.19
(1,970)	1:138:A:GLY:HA3	1:140:A:THR:HG21	7	0.19
(1,970)	1:138:A:GLY:HA3	1:140:A:THR:HG22	7	0.19
(1,970)	1:138:A:GLY:HA3	1:140:A:THR:HG23	7	0.19
(1,968)	1:73:A:ALA:HB1	1:75:A:GLU:HB2	6	0.19
(1,968)	1:73:A:ALA:HB1	1:75:A:GLU:HB3	6	0.19
(1,968)	1:73:A:ALA:HB2	1:75:A:GLU:HB2	6	0.19
(1,968)	1:73:A:ALA:HB2	1:75:A:GLU:HB3	6	0.19
(1,968)	1:73:A:ALA:HB3	1:75:A:GLU:HB2	6	0.19
(1,968)	1:73:A:ALA:HB3	1:75:A:GLU:HB3	6	0.19
(1,968)	1:73:A:ALA:HB1	1:75:A:GLU:HB2	8	0.19
(1,968)	1:73:A:ALA:HB1	1:75:A:GLU:HB3	8	0.19
(1,968)	1:73:A:ALA:HB2	1:75:A:GLU:HB2	8	0.19
(1,968)	1:73:A:ALA:HB2	1:75:A:GLU:HB3	8	0.19
(1,968)	1:73:A:ALA:HB3	1:75:A:GLU:HB2	8	0.19
(1,968)	1:73:A:ALA:HB3	1:75:A:GLU:HB3	8	0.19
(1,968)	1:73:A:ALA:HB1	1:75:A:GLU:HB2	13	0.19
(1,968)	1:73:A:ALA:HB1	1:75:A:GLU:HB3	13	0.19
(1,968)	1:73:A:ALA:HB2	1:75:A:GLU:HB2	13	0.19
(1,968)	1:73:A:ALA:HB2	1:75:A:GLU:HB3	13	0.19
(1,968)	1:73:A:ALA:HB3	1:75:A:GLU:HB2	13	0.19
(1,968)	1:73:A:ALA:HB3	1:75:A:GLU:HB3	13	0.19
(1,967)	1:74:A:ASN:HA	1:74:A:ASN:HD22	17	0.19
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG21	2	0.19
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG22	2	0.19
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG23	2	0.19
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG21	19	0.19
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG22	19	0.19
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG23	19	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG21	19	0.19
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG22	19	0.19
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG23	19	0.19
(1,927)	1:94:A:ARG:HG2	1:131:A:GLY:H	2	0.19
(1,927)	1:94:A:ARG:HG3	1:131:A:GLY:H	2	0.19
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB1	6	0.19
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB2	6	0.19
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB3	6	0.19
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB1	16	0.19
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB2	16	0.19
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB3	16	0.19
(1,864)	1:90:A:ALA:HB1	1:149:A:GLY:H	8	0.19
(1,864)	1:90:A:ALA:HB2	1:149:A:GLY:H	8	0.19
(1,864)	1:90:A:ALA:HB3	1:149:A:GLY:H	8	0.19
(1,861)	1:59:A:THR:HG21	1:62:A:ALA:H	16	0.19
(1,861)	1:59:A:THR:HG22	1:62:A:ALA:H	16	0.19
(1,861)	1:59:A:THR:HG23	1:62:A:ALA:H	16	0.19
(1,856)	1:73:A:ALA:H	1:77:A:LEU:HB2	5	0.19
(1,856)	1:73:A:ALA:H	1:77:A:LEU:HB3	5	0.19
(1,849)	1:89:A:ASP:H	1:95:A:LEU:HD21	14	0.19
(1,849)	1:89:A:ASP:H	1:95:A:LEU:HD22	14	0.19
(1,849)	1:89:A:ASP:H	1:95:A:LEU:HD23	14	0.19
(1,835)	1:90:A:ALA:H	1:147:A:VAL:HG11	9	0.19
(1,835)	1:90:A:ALA:H	1:147:A:VAL:HG12	9	0.19
(1,835)	1:90:A:ALA:H	1:147:A:VAL:HG13	9	0.19
(1,831)	1:138:A:GLY:H	1:139:A:ALA:H	11	0.19
(1,830)	1:56:A:LEU:H	1:57:A:ALA:HA	5	0.19
(1,830)	1:56:A:LEU:H	1:57:A:ALA:HA	6	0.19
(1,830)	1:56:A:LEU:H	1:57:A:ALA:HA	7	0.19
(1,830)	1:56:A:LEU:H	1:57:A:ALA:HA	12	0.19
(1,822)	1:75:A:GLU:H	1:77:A:LEU:HB2	17	0.19
(1,822)	1:75:A:GLU:H	1:77:A:LEU:HB3	17	0.19
(1,793)	1:69:A:LEU:HD11	1:71:A:ARG:H	5	0.19
(1,793)	1:69:A:LEU:HD12	1:71:A:ARG:H	5	0.19
(1,793)	1:69:A:LEU:HD13	1:71:A:ARG:H	5	0.19
(1,793)	1:69:A:LEU:HD11	1:71:A:ARG:H	9	0.19
(1,793)	1:69:A:LEU:HD12	1:71:A:ARG:H	9	0.19
(1,793)	1:69:A:LEU:HD13	1:71:A:ARG:H	9	0.19
(1,790)	1:74:A:ASN:HD21	1:98:A:ALA:HB1	18	0.19
(1,790)	1:74:A:ASN:HD21	1:98:A:ALA:HB2	18	0.19
(1,790)	1:74:A:ASN:HD21	1:98:A:ALA:HB3	18	0.19
(1,785)	1:67:A:ALA:HA	1:69:A:LEU:H	12	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,785)	1:67:A:ALA:HA	1:69:A:LEU:H	20	0.19
(1,769)	1:68:A:VAL:H	1:72:A:ILE:HD11	3	0.19
(1,769)	1:68:A:VAL:H	1:72:A:ILE:HD12	3	0.19
(1,769)	1:68:A:VAL:H	1:72:A:ILE:HD13	3	0.19
(1,766)	1:59:A:THR:HA	1:62:A:ALA:HB1	17	0.19
(1,766)	1:59:A:THR:HA	1:62:A:ALA:HB2	17	0.19
(1,766)	1:59:A:THR:HA	1:62:A:ALA:HB3	17	0.19
(1,749)	1:138:A:GLY:HA2	1:140:A:THR:HG21	15	0.19
(1,749)	1:138:A:GLY:HA2	1:140:A:THR:HG22	15	0.19
(1,749)	1:138:A:GLY:HA2	1:140:A:THR:HG23	15	0.19
(1,742)	1:88:A:LEU:HB2	1:93:A:GLU:HG2	8	0.19
(1,742)	1:88:A:LEU:HB2	1:93:A:GLU:HG3	8	0.19
(1,742)	1:88:A:LEU:HB3	1:93:A:GLU:HG2	8	0.19
(1,742)	1:88:A:LEU:HB3	1:93:A:GLU:HG3	8	0.19
(1,742)	1:88:A:LEU:HB2	1:93:A:GLU:HG2	9	0.19
(1,742)	1:88:A:LEU:HB2	1:93:A:GLU:HG3	9	0.19
(1,742)	1:88:A:LEU:HB3	1:93:A:GLU:HG2	9	0.19
(1,742)	1:88:A:LEU:HB3	1:93:A:GLU:HG3	9	0.19
(1,737)	1:47:A:GLN:HE21	1:52:A:GLN:HE21	3	0.19
(1,733)	1:88:A:LEU:HD11	1:94:A:ARG:HA	10	0.19
(1,733)	1:88:A:LEU:HD12	1:94:A:ARG:HA	10	0.19
(1,733)	1:88:A:LEU:HD13	1:94:A:ARG:HA	10	0.19
(1,733)	1:88:A:LEU:HD11	1:94:A:ARG:HA	11	0.19
(1,733)	1:88:A:LEU:HD12	1:94:A:ARG:HA	11	0.19
(1,733)	1:88:A:LEU:HD13	1:94:A:ARG:HA	11	0.19
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD11	17	0.19
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD12	17	0.19
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD13	17	0.19
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD21	17	0.19
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD22	17	0.19
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD23	17	0.19
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD11	17	0.19
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD12	17	0.19
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD13	17	0.19
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD21	17	0.19
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD22	17	0.19
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD23	17	0.19
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD11	17	0.19
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD12	17	0.19
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD13	17	0.19
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD21	17	0.19
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD22	17	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD23	17	0.19
(1,687)	1:66:A:THR:HG21	1:147:A:VAL:HG21	16	0.19
(1,687)	1:66:A:THR:HG21	1:147:A:VAL:HG22	16	0.19
(1,687)	1:66:A:THR:HG21	1:147:A:VAL:HG23	16	0.19
(1,687)	1:66:A:THR:HG22	1:147:A:VAL:HG21	16	0.19
(1,687)	1:66:A:THR:HG22	1:147:A:VAL:HG22	16	0.19
(1,687)	1:66:A:THR:HG22	1:147:A:VAL:HG23	16	0.19
(1,687)	1:66:A:THR:HG23	1:147:A:VAL:HG21	16	0.19
(1,687)	1:66:A:THR:HG23	1:147:A:VAL:HG22	16	0.19
(1,687)	1:66:A:THR:HG23	1:147:A:VAL:HG23	16	0.19
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG21	16	0.19
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG22	16	0.19
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG23	16	0.19
(1,666)	1:47:A:GLN:HB2	1:52:A:GLN:HG2	5	0.19
(1,666)	1:47:A:GLN:HB2	1:52:A:GLN:HG3	5	0.19
(1,666)	1:47:A:GLN:HB3	1:52:A:GLN:HG2	5	0.19
(1,666)	1:47:A:GLN:HB3	1:52:A:GLN:HG3	5	0.19
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG11	3	0.19
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG12	3	0.19
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG13	3	0.19
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG21	3	0.19
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG22	3	0.19
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG23	3	0.19
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG21	6	0.19
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG22	6	0.19
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG23	6	0.19
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG21	17	0.19
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG22	17	0.19
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG23	17	0.19
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG21	19	0.19
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG22	19	0.19
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG23	19	0.19
(1,635)	1:82:A:VAL:HB	1:83:A:ARG:HA	10	0.19
(1,635)	1:82:A:VAL:HB	1:83:A:ARG:HA	17	0.19
(1,632)	1:105:A:VAL:HG11	1:106:A:ALA:HA	16	0.19
(1,632)	1:105:A:VAL:HG12	1:106:A:ALA:HA	16	0.19
(1,632)	1:105:A:VAL:HG13	1:106:A:ALA:HA	16	0.19
(1,632)	1:105:A:VAL:HG21	1:106:A:ALA:HA	16	0.19
(1,632)	1:105:A:VAL:HG22	1:106:A:ALA:HA	16	0.19
(1,632)	1:105:A:VAL:HG23	1:106:A:ALA:HA	16	0.19
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD21	15	0.19
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD22	15	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD23	15	0.19
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD21	15	0.19
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD22	15	0.19
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD23	15	0.19
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD21	15	0.19
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD22	15	0.19
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD23	15	0.19
(1,561)	1:162:A:LEU:HA	1:162:A:LEU:HD11	14	0.19
(1,561)	1:162:A:LEU:HA	1:162:A:LEU:HD12	14	0.19
(1,561)	1:162:A:LEU:HA	1:162:A:LEU:HD13	14	0.19
(1,561)	1:162:A:LEU:HA	1:162:A:LEU:HD21	14	0.19
(1,561)	1:162:A:LEU:HA	1:162:A:LEU:HD22	14	0.19
(1,561)	1:162:A:LEU:HA	1:162:A:LEU:HD23	14	0.19
(1,548)	1:67:A:ALA:HB1	1:68:A:VAL:HA	1	0.19
(1,548)	1:67:A:ALA:HB2	1:68:A:VAL:HA	1	0.19
(1,548)	1:67:A:ALA:HB3	1:68:A:VAL:HA	1	0.19
(1,543)	1:139:A:ALA:H	1:140:A:THR:HB	2	0.19
(1,539)	1:70:A:ASN:HD22	1:74:A:ASN:HB2	1	0.19
(1,509)	1:43:A:ILE:HD11	1:53:A:LEU:H	1	0.19
(1,509)	1:43:A:ILE:HD12	1:53:A:LEU:H	1	0.19
(1,509)	1:43:A:ILE:HD13	1:53:A:LEU:H	1	0.19
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB1	7	0.19
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB2	7	0.19
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB3	7	0.19
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB1	7	0.19
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB2	7	0.19
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB3	7	0.19
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB1	7	0.19
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB2	7	0.19
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB3	7	0.19
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB1	7	0.19
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB2	7	0.19
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB3	7	0.19
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB1	7	0.19
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB2	7	0.19
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB3	7	0.19
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB1	7	0.19
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB2	7	0.19
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB3	7	0.19
(1,500)	1:43:A:ILE:HG21	1:47:A:GLN:H	12	0.19
(1,500)	1:43:A:ILE:HG22	1:47:A:GLN:H	12	0.19
(1,500)	1:43:A:ILE:HG23	1:47:A:GLN:H	12	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,485)	1:44:A:GLU:HG2	1:45:A:ARG:HA	3	0.19
(1,485)	1:44:A:GLU:HG3	1:45:A:ARG:HA	3	0.19
(1,455)	1:61:A:LEU:HD21	1:63:A:ARG:H	4	0.19
(1,455)	1:61:A:LEU:HD22	1:63:A:ARG:H	4	0.19
(1,455)	1:61:A:LEU:HD23	1:63:A:ARG:H	4	0.19
(1,440)	1:65:A:ASP:HA	1:147:A:VAL:HG11	12	0.19
(1,440)	1:65:A:ASP:HA	1:147:A:VAL:HG12	12	0.19
(1,440)	1:65:A:ASP:HA	1:147:A:VAL:HG13	12	0.19
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG21	15	0.19
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG22	15	0.19
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG23	15	0.19
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG21	15	0.19
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG22	15	0.19
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG23	15	0.19
(1,432)	1:131:A:GLY:H	1:132:A:ARG:HG2	6	0.19
(1,432)	1:131:A:GLY:H	1:132:A:ARG:HG3	6	0.19
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD21	6	0.19
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD22	6	0.19
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD23	6	0.19
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD21	6	0.19
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD22	6	0.19
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD23	6	0.19
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD21	6	0.19
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD22	6	0.19
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD23	6	0.19
(1,424)	1:70:A:ASN:HA	1:74:A:ASN:HD21	8	0.19
(1,404)	1:50:A:ALA:H	1:51:A:GLU:HB2	10	0.19
(1,404)	1:50:A:ALA:H	1:51:A:GLU:HB3	10	0.19
(1,404)	1:50:A:ALA:H	1:51:A:GLU:HB2	19	0.19
(1,404)	1:50:A:ALA:H	1:51:A:GLU:HB3	19	0.19
(1,332)	1:47:A:GLN:H	1:53:A:LEU:H	4	0.19
(1,331)	1:66:A:THR:H	1:147:A:VAL:HG21	8	0.19
(1,331)	1:66:A:THR:H	1:147:A:VAL:HG22	8	0.19
(1,331)	1:66:A:THR:H	1:147:A:VAL:HG23	8	0.19
(1,321)	1:65:A:ASP:HB3	1:66:A:THR:H	3	0.19
(1,321)	1:65:A:ASP:HB3	1:66:A:THR:H	15	0.19
(1,319)	1:66:A:THR:HG21	1:71:A:ARG:H	14	0.19
(1,319)	1:66:A:THR:HG22	1:71:A:ARG:H	14	0.19
(1,319)	1:66:A:THR:HG23	1:71:A:ARG:H	14	0.19
(1,316)	1:41:A:GLN:HE21	1:42:A:LEU:H	5	0.19
(1,291)	1:97:A:HIS:H	1:97:A:HIS:HD2	7	0.19
(1,278)	1:47:A:GLN:H	1:52:A:GLN:HE21	4	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,272)	1:94:A:ARG:H	1:124:A:HIS:HA	9	0.19
(1,271)	1:94:A:ARG:H	1:94:A:ARG:HG2	17	0.19
(1,271)	1:94:A:ARG:H	1:94:A:ARG:HG3	17	0.19
(1,270)	1:82:A:VAL:H	1:155:A:LEU:HB2	9	0.19
(1,270)	1:82:A:VAL:H	1:155:A:LEU:HB3	9	0.19
(1,270)	1:82:A:VAL:H	1:155:A:LEU:HB2	15	0.19
(1,270)	1:82:A:VAL:H	1:155:A:LEU:HB3	15	0.19
(1,248)	1:61:A:LEU:HD21	1:64:A:LYS:H	19	0.19
(1,248)	1:61:A:LEU:HD22	1:64:A:LYS:H	19	0.19
(1,248)	1:61:A:LEU:HD23	1:64:A:LYS:H	19	0.19
(1,205)	1:119:A:GLU:HB2	1:121:A:ASP:HB2	9	0.19
(1,205)	1:119:A:GLU:HB2	1:121:A:ASP:HB3	9	0.19
(1,205)	1:119:A:GLU:HB3	1:121:A:ASP:HB2	9	0.19
(1,205)	1:119:A:GLU:HB3	1:121:A:ASP:HB3	9	0.19
(1,185)	1:63:A:ARG:H	1:63:A:ARG:HD2	10	0.19
(1,185)	1:63:A:ARG:H	1:63:A:ARG:HD3	10	0.19
(1,154)	1:79:A:GLN:HE21	1:111:A:ALA:HA	6	0.19
(1,152)	1:49:A:ILE:HG21	1:50:A:ALA:HA	11	0.19
(1,152)	1:49:A:ILE:HG22	1:50:A:ALA:HA	11	0.19
(1,152)	1:49:A:ILE:HG23	1:50:A:ALA:HA	11	0.19
(1,147)	1:64:A:LYS:HD2	1:65:A:ASP:H	10	0.19
(1,147)	1:64:A:LYS:HD3	1:65:A:ASP:H	10	0.19
(1,145)	1:90:A:ALA:HA	1:149:A:GLY:H	9	0.19
(1,134)	1:103:A:LEU:H	1:105:A:VAL:H	16	0.19
(1,125)	1:94:A:ARG:HH21	1:104:A:THR:HB	17	0.19
(1,125)	1:94:A:ARG:HH22	1:104:A:THR:HB	17	0.19
(1,115)	1:94:A:ARG:HA	1:124:A:HIS:H	7	0.19
(1,115)	1:94:A:ARG:HA	1:124:A:HIS:H	10	0.19
(1,115)	1:94:A:ARG:HA	1:124:A:HIS:H	16	0.19
(1,115)	1:94:A:ARG:HA	1:124:A:HIS:H	20	0.19
(1,112)	1:88:A:LEU:HB2	1:150:A:TRP:HB3	9	0.19
(1,112)	1:88:A:LEU:HB3	1:150:A:TRP:HB3	9	0.19
(1,105)	1:87:A:PHE:HB3	1:151:A:VAL:HA	7	0.19
(1,105)	1:87:A:PHE:HB3	1:151:A:VAL:HA	20	0.19
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG21	1	0.19
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG22	1	0.19
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG23	1	0.19
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG21	3	0.19
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG22	3	0.19
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG23	3	0.19
(1,77)	1:88:A:LEU:HD11	1:124:A:HIS:H	18	0.19
(1,77)	1:88:A:LEU:HD12	1:124:A:HIS:H	18	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,77)	1:88:A:LEU:HD13	1:124:A:HIS:H	18	0.19
(1,68)	1:162:A:LEU:HA	1:163:A:ARG:HH11	7	0.19
(1,68)	1:162:A:LEU:HA	1:163:A:ARG:HH12	7	0.19
(1,60)	1:47:A:GLN:HE22	1:52:A:GLN:H	8	0.19
(1,57)	1:69:A:LEU:H	1:70:A:ASN:HB2	1	0.19
(1,53)	1:87:A:PHE:HA	1:150:A:TRP:HA	3	0.19
(1,53)	1:87:A:PHE:HA	1:150:A:TRP:HA	5	0.19
(1,50)	1:150:A:TRP:HA	1:151:A:VAL:HB	15	0.19
(1,47)	1:70:A:ASN:H	1:71:A:ARG:HE	17	0.19
(1,43)	1:83:A:ARG:HA	1:155:A:LEU:HA	15	0.19
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD11	9	0.18
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD12	9	0.18
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD13	9	0.18
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD21	9	0.18
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD22	9	0.18
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD23	9	0.18
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD11	9	0.18
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD12	9	0.18
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD13	9	0.18
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD21	9	0.18
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD22	9	0.18
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD23	9	0.18
(1,1193)	1:148:A:LEU:HD11	1:149:A:GLY:H	8	0.18
(1,1193)	1:148:A:LEU:HD12	1:149:A:GLY:H	8	0.18
(1,1193)	1:148:A:LEU:HD13	1:149:A:GLY:H	8	0.18
(1,1193)	1:148:A:LEU:HD21	1:149:A:GLY:H	8	0.18
(1,1193)	1:148:A:LEU:HD22	1:149:A:GLY:H	8	0.18
(1,1193)	1:148:A:LEU:HD23	1:149:A:GLY:H	8	0.18
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD11	5	0.18
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD12	5	0.18
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD13	5	0.18
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD21	5	0.18
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD22	5	0.18
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD23	5	0.18
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD11	5	0.18
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD12	5	0.18
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD13	5	0.18
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD21	5	0.18
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD22	5	0.18
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD23	5	0.18
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD11	8	0.18
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD12	8	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD13	8	0.18
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD21	8	0.18
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD22	8	0.18
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD23	8	0.18
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD11	8	0.18
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD12	8	0.18
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD13	8	0.18
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD21	8	0.18
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD22	8	0.18
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD23	8	0.18
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD11	9	0.18
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD12	9	0.18
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD13	9	0.18
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD21	9	0.18
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD22	9	0.18
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD23	9	0.18
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD11	9	0.18
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD12	9	0.18
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD13	9	0.18
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD21	9	0.18
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD22	9	0.18
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD23	9	0.18
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD11	13	0.18
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD12	13	0.18
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD13	13	0.18
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD21	13	0.18
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD22	13	0.18
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD23	13	0.18
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD11	13	0.18
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD12	13	0.18
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD13	13	0.18
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD21	13	0.18
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD22	13	0.18
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD23	13	0.18
(1,1120)	1:77:A:LEU:HD11	1:98:A:ALA:H	10	0.18
(1,1120)	1:77:A:LEU:HD12	1:98:A:ALA:H	10	0.18
(1,1120)	1:77:A:LEU:HD13	1:98:A:ALA:H	10	0.18
(1,1120)	1:77:A:LEU:HD21	1:98:A:ALA:H	10	0.18
(1,1120)	1:77:A:LEU:HD22	1:98:A:ALA:H	10	0.18
(1,1120)	1:77:A:LEU:HD23	1:98:A:ALA:H	10	0.18
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG11	20	0.18
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG12	20	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG13	20	0.18
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG21	20	0.18
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG22	20	0.18
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG23	20	0.18
(1,1022)	1:71:A:ARG:HB2	1:72:A:ILE:HA	3	0.18
(1,1022)	1:71:A:ARG:HB3	1:72:A:ILE:HA	3	0.18
(1,1022)	1:71:A:ARG:HB2	1:72:A:ILE:HA	14	0.18
(1,1022)	1:71:A:ARG:HB3	1:72:A:ILE:HA	14	0.18
(1,988)	1:66:A:THR:HG21	1:67:A:ALA:H	9	0.18
(1,988)	1:66:A:THR:HG22	1:67:A:ALA:H	9	0.18
(1,988)	1:66:A:THR:HG23	1:67:A:ALA:H	9	0.18
(1,988)	1:66:A:THR:HG21	1:67:A:ALA:H	12	0.18
(1,988)	1:66:A:THR:HG22	1:67:A:ALA:H	12	0.18
(1,988)	1:66:A:THR:HG23	1:67:A:ALA:H	12	0.18
(1,971)	1:60:A:ALA:HA	1:65:A:ASP:HB3	4	0.18
(1,971)	1:60:A:ALA:HA	1:65:A:ASP:HB3	6	0.18
(1,971)	1:60:A:ALA:HA	1:65:A:ASP:HB3	14	0.18
(1,968)	1:73:A:ALA:HB1	1:75:A:GLU:HB2	9	0.18
(1,968)	1:73:A:ALA:HB1	1:75:A:GLU:HB3	9	0.18
(1,968)	1:73:A:ALA:HB2	1:75:A:GLU:HB2	9	0.18
(1,968)	1:73:A:ALA:HB2	1:75:A:GLU:HB3	9	0.18
(1,968)	1:73:A:ALA:HB3	1:75:A:GLU:HB2	9	0.18
(1,968)	1:73:A:ALA:HB3	1:75:A:GLU:HB3	9	0.18
(1,965)	1:56:A:LEU:HG	1:57:A:ALA:HA	5	0.18
(1,958)	1:85:A:VAL:HG11	1:152:A:GLU:H	11	0.18
(1,958)	1:85:A:VAL:HG12	1:152:A:GLU:H	11	0.18
(1,958)	1:85:A:VAL:HG13	1:152:A:GLU:H	11	0.18
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB1	3	0.18
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB2	3	0.18
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB3	3	0.18
(1,843)	1:71:A:ARG:H	1:72:A:ILE:HG21	7	0.18
(1,843)	1:71:A:ARG:H	1:72:A:ILE:HG22	7	0.18
(1,843)	1:71:A:ARG:H	1:72:A:ILE:HG23	7	0.18
(1,843)	1:71:A:ARG:H	1:72:A:ILE:HG21	14	0.18
(1,843)	1:71:A:ARG:H	1:72:A:ILE:HG22	14	0.18
(1,843)	1:71:A:ARG:H	1:72:A:ILE:HG23	14	0.18
(1,830)	1:56:A:LEU:H	1:57:A:ALA:HA	2	0.18
(1,827)	1:91:A:ARG:H	1:92:A:GLN:HA	15	0.18
(1,803)	1:89:A:ASP:H	1:95:A:LEU:HG	1	0.18
(1,793)	1:69:A:LEU:HD11	1:71:A:ARG:H	19	0.18
(1,793)	1:69:A:LEU:HD12	1:71:A:ARG:H	19	0.18
(1,793)	1:69:A:LEU:HD13	1:71:A:ARG:H	19	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,790)	1:74:A:ASN:HD21	1:98:A:ALA:HB1	2	0.18
(1,790)	1:74:A:ASN:HD21	1:98:A:ALA:HB2	2	0.18
(1,790)	1:74:A:ASN:HD21	1:98:A:ALA:HB3	2	0.18
(1,766)	1:59:A:THR:HA	1:62:A:ALA:HB1	15	0.18
(1,766)	1:59:A:THR:HA	1:62:A:ALA:HB2	15	0.18
(1,766)	1:59:A:THR:HA	1:62:A:ALA:HB3	15	0.18
(1,752)	1:140:A:THR:HG21	1:141:A:GLU:H	12	0.18
(1,752)	1:140:A:THR:HG22	1:141:A:GLU:H	12	0.18
(1,752)	1:140:A:THR:HG23	1:141:A:GLU:H	12	0.18
(1,728)	1:61:A:LEU:HA	1:61:A:LEU:HD11	18	0.18
(1,728)	1:61:A:LEU:HA	1:61:A:LEU:HD12	18	0.18
(1,728)	1:61:A:LEU:HA	1:61:A:LEU:HD13	18	0.18
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD11	7	0.18
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD12	7	0.18
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD13	7	0.18
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD21	7	0.18
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD22	7	0.18
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD23	7	0.18
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD11	7	0.18
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD12	7	0.18
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD13	7	0.18
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD21	7	0.18
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD22	7	0.18
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD23	7	0.18
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD11	7	0.18
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD12	7	0.18
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD13	7	0.18
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD21	7	0.18
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD22	7	0.18
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD23	7	0.18
(1,632)	1:105:A:VAL:HG11	1:106:A:ALA:HA	3	0.18
(1,632)	1:105:A:VAL:HG12	1:106:A:ALA:HA	3	0.18
(1,632)	1:105:A:VAL:HG13	1:106:A:ALA:HA	3	0.18
(1,632)	1:105:A:VAL:HG21	1:106:A:ALA:HA	3	0.18
(1,632)	1:105:A:VAL:HG22	1:106:A:ALA:HA	3	0.18
(1,632)	1:105:A:VAL:HG23	1:106:A:ALA:HA	3	0.18
(1,594)	1:139:A:ALA:HA	1:145:A:GLU:HG2	17	0.18
(1,594)	1:139:A:ALA:HA	1:145:A:GLU:HG3	17	0.18
(1,593)	1:79:A:GLN:HG3	1:111:A:ALA:HA	7	0.18
(1,568)	1:111:A:ALA:HA	1:114:A:LEU:H	15	0.18
(1,521)	1:98:A:ALA:HA	1:103:A:LEU:H	2	0.18
(1,511)	1:146:A:ARG:HE	1:147:A:VAL:HG11	16	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,511)	1:146:A:ARG:HE	1:147:A:VAL:HG12	16	0.18
(1,511)	1:146:A:ARG:HE	1:147:A:VAL:HG13	16	0.18
(1,506)	1:60:A:ALA:HB1	1:65:A:ASP:HB2	16	0.18
(1,506)	1:60:A:ALA:HB2	1:65:A:ASP:HB2	16	0.18
(1,506)	1:60:A:ALA:HB3	1:65:A:ASP:HB2	16	0.18
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB1	15	0.18
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB2	15	0.18
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB3	15	0.18
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB1	15	0.18
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB2	15	0.18
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB3	15	0.18
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB1	15	0.18
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB2	15	0.18
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB3	15	0.18
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB1	15	0.18
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB2	15	0.18
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB3	15	0.18
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB1	15	0.18
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB2	15	0.18
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB3	15	0.18
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB1	15	0.18
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB2	15	0.18
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB3	15	0.18
(1,500)	1:43:A:ILE:HG21	1:47:A:GLN:H	5	0.18
(1,500)	1:43:A:ILE:HG22	1:47:A:GLN:H	5	0.18
(1,500)	1:43:A:ILE:HG23	1:47:A:GLN:H	5	0.18
(1,485)	1:44:A:GLU:HG2	1:45:A:ARG:HA	11	0.18
(1,485)	1:44:A:GLU:HG3	1:45:A:ARG:HA	11	0.18
(1,482)	1:43:A:ILE:HG21	1:44:A:GLU:H	13	0.18
(1,482)	1:43:A:ILE:HG22	1:44:A:GLU:H	13	0.18
(1,482)	1:43:A:ILE:HG23	1:44:A:GLU:H	13	0.18
(1,481)	1:43:A:ILE:HA	1:45:A:ARG:HB2	9	0.18
(1,481)	1:43:A:ILE:HA	1:45:A:ARG:HB3	9	0.18
(1,442)	1:141:A:GLU:HB2	1:145:A:GLU:H	7	0.18
(1,442)	1:141:A:GLU:HB3	1:145:A:GLU:H	7	0.18
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG21	13	0.18
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG22	13	0.18
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG23	13	0.18
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG21	13	0.18
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG22	13	0.18
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG23	13	0.18
(1,436)	1:90:A:ALA:HB1	1:148:A:LEU:H	15	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,436)	1:90:A:ALA:HB2	1:148:A:LEU:H	15	0.18
(1,436)	1:90:A:ALA:HB3	1:148:A:LEU:H	15	0.18
(1,432)	1:131:A:GLY:H	1:132:A:ARG:HG2	1	0.18
(1,432)	1:131:A:GLY:H	1:132:A:ARG:HG3	1	0.18
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD21	8	0.18
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD22	8	0.18
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD23	8	0.18
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD21	8	0.18
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD22	8	0.18
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD23	8	0.18
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD21	8	0.18
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD22	8	0.18
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD23	8	0.18
(1,369)	1:44:A:GLU:HG2	1:45:A:ARG:H	5	0.18
(1,369)	1:44:A:GLU:HG3	1:45:A:ARG:H	5	0.18
(1,369)	1:44:A:GLU:HG2	1:45:A:ARG:H	12	0.18
(1,369)	1:44:A:GLU:HG3	1:45:A:ARG:H	12	0.18
(1,322)	1:60:A:ALA:H	1:65:A:ASP:HB2	1	0.18
(1,322)	1:60:A:ALA:H	1:65:A:ASP:HB2	17	0.18
(1,319)	1:66:A:THR:HG21	1:71:A:ARG:H	13	0.18
(1,319)	1:66:A:THR:HG22	1:71:A:ARG:H	13	0.18
(1,319)	1:66:A:THR:HG23	1:71:A:ARG:H	13	0.18
(1,319)	1:66:A:THR:HG21	1:71:A:ARG:H	20	0.18
(1,319)	1:66:A:THR:HG22	1:71:A:ARG:H	20	0.18
(1,319)	1:66:A:THR:HG23	1:71:A:ARG:H	20	0.18
(1,316)	1:41:A:GLN:HE21	1:42:A:LEU:H	15	0.18
(1,248)	1:61:A:LEU:HD21	1:64:A:LYS:H	9	0.18
(1,248)	1:61:A:LEU:HD22	1:64:A:LYS:H	9	0.18
(1,248)	1:61:A:LEU:HD23	1:64:A:LYS:H	9	0.18
(1,248)	1:61:A:LEU:HD21	1:64:A:LYS:H	15	0.18
(1,248)	1:61:A:LEU:HD22	1:64:A:LYS:H	15	0.18
(1,248)	1:61:A:LEU:HD23	1:64:A:LYS:H	15	0.18
(1,234)	1:66:A:THR:HB	1:87:A:PHE:HB2	18	0.18
(1,192)	1:40:A:ALA:H	1:41:A:GLN:HG2	3	0.18
(1,192)	1:40:A:ALA:H	1:41:A:GLN:HG2	6	0.18
(1,164)	1:58:A:ALA:HA	1:62:A:ALA:H	17	0.18
(1,160)	1:97:A:HIS:HB3	1:150:A:TRP:HZ3	8	0.18
(1,147)	1:64:A:LYS:HD2	1:65:A:ASP:H	3	0.18
(1,147)	1:64:A:LYS:HD3	1:65:A:ASP:H	3	0.18
(1,136)	1:69:A:LEU:HD21	1:70:A:ASN:H	7	0.18
(1,136)	1:69:A:LEU:HD22	1:70:A:ASN:H	7	0.18
(1,136)	1:69:A:LEU:HD23	1:70:A:ASN:H	7	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,133)	1:65:A:ASP:HA	1:147:A:VAL:HG21	9	0.18
(1,133)	1:65:A:ASP:HA	1:147:A:VAL:HG22	9	0.18
(1,133)	1:65:A:ASP:HA	1:147:A:VAL:HG23	9	0.18
(1,129)	1:70:A:ASN:HB2	1:71:A:ARG:HE	18	0.18
(1,118)	1:86:A:THR:HB	1:151:A:VAL:HA	11	0.18
(1,98)	1:79:A:GLN:H	1:81:A:ASP:H	4	0.18
(1,98)	1:79:A:GLN:H	1:81:A:ASP:H	14	0.18
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG21	5	0.18
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG22	5	0.18
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG23	5	0.18
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG21	11	0.18
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG22	11	0.18
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG23	11	0.18
(1,53)	1:87:A:PHE:HA	1:150:A:TRP:HA	9	0.18
(1,53)	1:87:A:PHE:HA	1:150:A:TRP:HA	18	0.18
(1,51)	1:90:A:ALA:H	1:91:A:ARG:HA	10	0.18
(1,7)	1:97:A:HIS:HA	1:150:A:TRP:HZ3	1	0.18
(1,3)	1:68:A:VAL:H	1:69:A:LEU:HD21	7	0.18
(1,3)	1:68:A:VAL:H	1:69:A:LEU:HD22	7	0.18
(1,3)	1:68:A:VAL:H	1:69:A:LEU:HD23	7	0.18
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD11	4	0.17
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD12	4	0.17
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD13	4	0.17
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD21	4	0.17
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD22	4	0.17
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD23	4	0.17
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD11	4	0.17
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD12	4	0.17
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD13	4	0.17
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD21	4	0.17
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD22	4	0.17
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD23	4	0.17
(1,1194)	1:150:A:TRP:HA	1:151:A:VAL:HG11	8	0.17
(1,1194)	1:150:A:TRP:HA	1:151:A:VAL:HG12	8	0.17
(1,1194)	1:150:A:TRP:HA	1:151:A:VAL:HG13	8	0.17
(1,1194)	1:150:A:TRP:HA	1:151:A:VAL:HG21	8	0.17
(1,1194)	1:150:A:TRP:HA	1:151:A:VAL:HG22	8	0.17
(1,1194)	1:150:A:TRP:HA	1:151:A:VAL:HG23	8	0.17
(1,1193)	1:148:A:LEU:HD11	1:149:A:GLY:H	11	0.17
(1,1193)	1:148:A:LEU:HD12	1:149:A:GLY:H	11	0.17
(1,1193)	1:148:A:LEU:HD13	1:149:A:GLY:H	11	0.17
(1,1193)	1:148:A:LEU:HD21	1:149:A:GLY:H	11	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1193)	1:148:A:LEU:HD22	1:149:A:GLY:H	11	0.17
(1,1193)	1:148:A:LEU:HD23	1:149:A:GLY:H	11	0.17
(1,1172)	1:95:A:LEU:HD11	1:96:A:ALA:H	1	0.17
(1,1172)	1:95:A:LEU:HD12	1:96:A:ALA:H	1	0.17
(1,1172)	1:95:A:LEU:HD13	1:96:A:ALA:H	1	0.17
(1,1172)	1:95:A:LEU:HD21	1:96:A:ALA:H	1	0.17
(1,1172)	1:95:A:LEU:HD22	1:96:A:ALA:H	1	0.17
(1,1172)	1:95:A:LEU:HD23	1:96:A:ALA:H	1	0.17
(1,1172)	1:95:A:LEU:HD11	1:96:A:ALA:H	15	0.17
(1,1172)	1:95:A:LEU:HD12	1:96:A:ALA:H	15	0.17
(1,1172)	1:95:A:LEU:HD13	1:96:A:ALA:H	15	0.17
(1,1172)	1:95:A:LEU:HD21	1:96:A:ALA:H	15	0.17
(1,1172)	1:95:A:LEU:HD22	1:96:A:ALA:H	15	0.17
(1,1172)	1:95:A:LEU:HD23	1:96:A:ALA:H	15	0.17
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD11	17	0.17
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD12	17	0.17
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD13	17	0.17
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD21	17	0.17
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD22	17	0.17
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD23	17	0.17
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD11	17	0.17
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD12	17	0.17
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD13	17	0.17
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD21	17	0.17
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD22	17	0.17
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD23	17	0.17
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD11	20	0.17
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD12	20	0.17
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD13	20	0.17
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD21	20	0.17
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD22	20	0.17
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD23	20	0.17
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD11	20	0.17
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD12	20	0.17
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD13	20	0.17
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD21	20	0.17
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD22	20	0.17
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD23	20	0.17
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD11	18	0.17
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD12	18	0.17
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD13	18	0.17
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD21	18	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD22	18	0.17
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD23	18	0.17
(1,1129)	1:81:A:ASP:HB2	1:162:A:LEU:HB2	15	0.17
(1,1129)	1:81:A:ASP:HB2	1:162:A:LEU:HB3	15	0.17
(1,1129)	1:81:A:ASP:HB3	1:162:A:LEU:HB2	15	0.17
(1,1129)	1:81:A:ASP:HB3	1:162:A:LEU:HB3	15	0.17
(1,1098)	1:69:A:LEU:HG	1:85:A:VAL:HG11	16	0.17
(1,1098)	1:69:A:LEU:HG	1:85:A:VAL:HG12	16	0.17
(1,1098)	1:69:A:LEU:HG	1:85:A:VAL:HG13	16	0.17
(1,1098)	1:69:A:LEU:HG	1:85:A:VAL:HG21	16	0.17
(1,1098)	1:69:A:LEU:HG	1:85:A:VAL:HG22	16	0.17
(1,1098)	1:69:A:LEU:HG	1:85:A:VAL:HG23	16	0.17
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG11	9	0.17
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG12	9	0.17
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG13	9	0.17
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG21	9	0.17
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG22	9	0.17
(1,1082)	1:61:A:LEU:HD21	1:68:A:VAL:HG23	9	0.17
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG11	9	0.17
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG12	9	0.17
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG13	9	0.17
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG21	9	0.17
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG22	9	0.17
(1,1082)	1:61:A:LEU:HD22	1:68:A:VAL:HG23	9	0.17
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG11	9	0.17
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG12	9	0.17
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG13	9	0.17
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG21	9	0.17
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG22	9	0.17
(1,1082)	1:61:A:LEU:HD23	1:68:A:VAL:HG23	9	0.17
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG11	15	0.17
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG12	15	0.17
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG13	15	0.17
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG21	15	0.17
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG22	15	0.17
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG23	15	0.17
(1,1022)	1:71:A:ARG:HB2	1:72:A:ILE:HA	1	0.17
(1,1022)	1:71:A:ARG:HB3	1:72:A:ILE:HA	1	0.17
(1,1022)	1:71:A:ARG:HB2	1:72:A:ILE:HA	5	0.17
(1,1022)	1:71:A:ARG:HB3	1:72:A:ILE:HA	5	0.17
(1,1022)	1:71:A:ARG:HB2	1:72:A:ILE:HA	16	0.17
(1,1022)	1:71:A:ARG:HB3	1:72:A:ILE:HA	16	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1018)	1:70:A:ASN:HD22	1:71:A:ARG:HA	5	0.17
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB1	19	0.17
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB2	19	0.17
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB3	19	0.17
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB1	19	0.17
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB2	19	0.17
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB3	19	0.17
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB1	19	0.17
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB2	19	0.17
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB3	19	0.17
(1,986)	1:136:A:LEU:HB2	1:137:A:SER:HA	13	0.17
(1,986)	1:136:A:LEU:HB3	1:137:A:SER:HA	13	0.17
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD11	18	0.17
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD12	18	0.17
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD13	18	0.17
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD21	18	0.17
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD22	18	0.17
(1,975)	1:41:A:GLN:HB2	1:56:A:LEU:HD23	18	0.17
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD11	18	0.17
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD12	18	0.17
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD13	18	0.17
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD21	18	0.17
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD22	18	0.17
(1,975)	1:41:A:GLN:HB3	1:56:A:LEU:HD23	18	0.17
(1,971)	1:60:A:ALA:HA	1:65:A:ASP:HB3	10	0.17
(1,970)	1:138:A:GLY:HA3	1:140:A:THR:HG21	4	0.17
(1,970)	1:138:A:GLY:HA3	1:140:A:THR:HG22	4	0.17
(1,970)	1:138:A:GLY:HA3	1:140:A:THR:HG23	4	0.17
(1,958)	1:85:A:VAL:HG11	1:152:A:GLU:H	12	0.17
(1,958)	1:85:A:VAL:HG12	1:152:A:GLU:H	12	0.17
(1,958)	1:85:A:VAL:HG13	1:152:A:GLU:H	12	0.17
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB1	11	0.17
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB2	11	0.17
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB3	11	0.17
(1,868)	1:81:A:ASP:H	1:164:A:GLY:HA2	8	0.17
(1,868)	1:81:A:ASP:H	1:164:A:GLY:HA3	8	0.17
(1,861)	1:59:A:THR:HG21	1:62:A:ALA:H	17	0.17
(1,861)	1:59:A:THR:HG22	1:62:A:ALA:H	17	0.17
(1,861)	1:59:A:THR:HG23	1:62:A:ALA:H	17	0.17
(1,856)	1:73:A:ALA:H	1:77:A:LEU:HB2	4	0.17
(1,856)	1:73:A:ALA:H	1:77:A:LEU:HB3	4	0.17
(1,856)	1:73:A:ALA:H	1:77:A:LEU:HB2	6	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,856)	1:73:A:ALA:H	1:77:A:LEU:HB3	6	0.17
(1,856)	1:73:A:ALA:H	1:77:A:LEU:HB2	13	0.17
(1,856)	1:73:A:ALA:H	1:77:A:LEU:HB3	13	0.17
(1,849)	1:89:A:ASP:H	1:95:A:LEU:HD21	5	0.17
(1,849)	1:89:A:ASP:H	1:95:A:LEU:HD22	5	0.17
(1,849)	1:89:A:ASP:H	1:95:A:LEU:HD23	5	0.17
(1,849)	1:89:A:ASP:H	1:95:A:LEU:HD21	13	0.17
(1,849)	1:89:A:ASP:H	1:95:A:LEU:HD22	13	0.17
(1,849)	1:89:A:ASP:H	1:95:A:LEU:HD23	13	0.17
(1,843)	1:71:A:ARG:H	1:72:A:ILE:HG21	1	0.17
(1,843)	1:71:A:ARG:H	1:72:A:ILE:HG22	1	0.17
(1,843)	1:71:A:ARG:H	1:72:A:ILE:HG23	1	0.17
(1,831)	1:138:A:GLY:H	1:139:A:ALA:H	20	0.17
(1,830)	1:56:A:LEU:H	1:57:A:ALA:HA	4	0.17
(1,830)	1:56:A:LEU:H	1:57:A:ALA:HA	19	0.17
(1,793)	1:69:A:LEU:HD11	1:71:A:ARG:H	17	0.17
(1,793)	1:69:A:LEU:HD12	1:71:A:ARG:H	17	0.17
(1,793)	1:69:A:LEU:HD13	1:71:A:ARG:H	17	0.17
(1,785)	1:67:A:ALA:HA	1:69:A:LEU:H	8	0.17
(1,784)	1:147:A:VAL:H	1:149:A:GLY:H	9	0.17
(1,761)	1:148:A:LEU:HA	1:148:A:LEU:HG	4	0.17
(1,737)	1:47:A:GLN:HE21	1:52:A:GLN:HE21	2	0.17
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD11	13	0.17
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD12	13	0.17
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD13	13	0.17
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD21	13	0.17
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD22	13	0.17
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD23	13	0.17
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD11	13	0.17
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD12	13	0.17
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD13	13	0.17
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD21	13	0.17
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD22	13	0.17
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD23	13	0.17
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD11	13	0.17
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD12	13	0.17
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD13	13	0.17
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD21	13	0.17
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD22	13	0.17
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD23	13	0.17
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD11	20	0.17
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD12	20	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD13	20	0.17
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD21	20	0.17
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD22	20	0.17
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD23	20	0.17
(1,706)	1:118:A:THR:HA	1:118:A:THR:HG21	1	0.17
(1,706)	1:118:A:THR:HA	1:118:A:THR:HG22	1	0.17
(1,706)	1:118:A:THR:HA	1:118:A:THR:HG23	1	0.17
(1,706)	1:118:A:THR:HA	1:118:A:THR:HG21	13	0.17
(1,706)	1:118:A:THR:HA	1:118:A:THR:HG22	13	0.17
(1,706)	1:118:A:THR:HA	1:118:A:THR:HG23	13	0.17
(1,681)	1:106:A:ALA:HA	1:107:A:PRO:HG2	20	0.17
(1,681)	1:106:A:ALA:HA	1:107:A:PRO:HG3	20	0.17
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG21	18	0.17
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG22	18	0.17
(1,678)	1:94:A:ARG:HA	1:123:A:THR:HG23	18	0.17
(1,660)	1:57:A:ALA:HB1	1:69:A:LEU:HD21	3	0.17
(1,660)	1:57:A:ALA:HB1	1:69:A:LEU:HD22	3	0.17
(1,660)	1:57:A:ALA:HB1	1:69:A:LEU:HD23	3	0.17
(1,660)	1:57:A:ALA:HB2	1:69:A:LEU:HD21	3	0.17
(1,660)	1:57:A:ALA:HB2	1:69:A:LEU:HD22	3	0.17
(1,660)	1:57:A:ALA:HB2	1:69:A:LEU:HD23	3	0.17
(1,660)	1:57:A:ALA:HB3	1:69:A:LEU:HD21	3	0.17
(1,660)	1:57:A:ALA:HB3	1:69:A:LEU:HD22	3	0.17
(1,660)	1:57:A:ALA:HB3	1:69:A:LEU:HD23	3	0.17
(1,660)	1:57:A:ALA:HB1	1:69:A:LEU:HD21	8	0.17
(1,660)	1:57:A:ALA:HB1	1:69:A:LEU:HD22	8	0.17
(1,660)	1:57:A:ALA:HB1	1:69:A:LEU:HD23	8	0.17
(1,660)	1:57:A:ALA:HB2	1:69:A:LEU:HD21	8	0.17
(1,660)	1:57:A:ALA:HB2	1:69:A:LEU:HD22	8	0.17
(1,660)	1:57:A:ALA:HB2	1:69:A:LEU:HD23	8	0.17
(1,660)	1:57:A:ALA:HB3	1:69:A:LEU:HD21	8	0.17
(1,660)	1:57:A:ALA:HB3	1:69:A:LEU:HD22	8	0.17
(1,660)	1:57:A:ALA:HB3	1:69:A:LEU:HD23	8	0.17
(1,657)	1:59:A:THR:HA	1:62:A:ALA:H	2	0.17
(1,649)	1:86:A:THR:HB	1:152:A:GLU:HB2	1	0.17
(1,649)	1:86:A:THR:HB	1:152:A:GLU:HB3	1	0.17
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG11	1	0.17
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG12	1	0.17
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG13	1	0.17
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG21	1	0.17
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG22	1	0.17
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG23	1	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG21	2	0.17
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG22	2	0.17
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG23	2	0.17
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG21	4	0.17
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG22	4	0.17
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG23	4	0.17
(1,614)	1:49:A:ILE:HG21	1:55:A:PRO:HG2	19	0.17
(1,614)	1:49:A:ILE:HG21	1:55:A:PRO:HG3	19	0.17
(1,614)	1:49:A:ILE:HG22	1:55:A:PRO:HG2	19	0.17
(1,614)	1:49:A:ILE:HG22	1:55:A:PRO:HG3	19	0.17
(1,614)	1:49:A:ILE:HG23	1:55:A:PRO:HG2	19	0.17
(1,614)	1:49:A:ILE:HG23	1:55:A:PRO:HG3	19	0.17
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG21	1	0.17
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG22	1	0.17
(1,613)	1:95:A:LEU:HB2	1:147:A:VAL:HG23	1	0.17
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG21	1	0.17
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG22	1	0.17
(1,613)	1:95:A:LEU:HB3	1:147:A:VAL:HG23	1	0.17
(1,599)	1:88:A:LEU:HB2	1:150:A:TRP:HH2	14	0.17
(1,599)	1:88:A:LEU:HB3	1:150:A:TRP:HH2	14	0.17
(1,582)	1:90:A:ALA:H	1:148:A:LEU:HB2	20	0.17
(1,582)	1:90:A:ALA:H	1:148:A:LEU:HB3	20	0.17
(1,547)	1:61:A:LEU:HD21	1:64:A:LYS:HA	14	0.17
(1,547)	1:61:A:LEU:HD22	1:64:A:LYS:HA	14	0.17
(1,547)	1:61:A:LEU:HD23	1:64:A:LYS:HA	14	0.17
(1,486)	1:72:A:ILE:H	1:72:A:ILE:HD11	9	0.17
(1,486)	1:72:A:ILE:H	1:72:A:ILE:HD12	9	0.17
(1,486)	1:72:A:ILE:H	1:72:A:ILE:HD13	9	0.17
(1,481)	1:43:A:ILE:HA	1:45:A:ARG:HB2	1	0.17
(1,481)	1:43:A:ILE:HA	1:45:A:ARG:HB3	1	0.17
(1,477)	1:135:A:SER:HB3	1:136:A:LEU:H	8	0.17
(1,455)	1:61:A:LEU:HD21	1:63:A:ARG:H	18	0.17
(1,455)	1:61:A:LEU:HD22	1:63:A:ARG:H	18	0.17
(1,455)	1:61:A:LEU:HD23	1:63:A:ARG:H	18	0.17
(1,448)	1:86:A:THR:HG21	1:150:A:TRP:HE3	5	0.17
(1,448)	1:86:A:THR:HG22	1:150:A:TRP:HE3	5	0.17
(1,448)	1:86:A:THR:HG23	1:150:A:TRP:HE3	5	0.17
(1,448)	1:86:A:THR:HG21	1:150:A:TRP:HE3	13	0.17
(1,448)	1:86:A:THR:HG22	1:150:A:TRP:HE3	13	0.17
(1,448)	1:86:A:THR:HG23	1:150:A:TRP:HE3	13	0.17
(1,436)	1:90:A:ALA:HB1	1:148:A:LEU:H	6	0.17
(1,436)	1:90:A:ALA:HB2	1:148:A:LEU:H	6	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,436)	1:90:A:ALA:HB3	1:148:A:LEU:H	6	0.17
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD21	11	0.17
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD22	11	0.17
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD23	11	0.17
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD21	11	0.17
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD22	11	0.17
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD23	11	0.17
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD21	11	0.17
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD22	11	0.17
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD23	11	0.17
(1,375)	1:160:A:THR:H	1:162:A:LEU:HD11	20	0.17
(1,375)	1:160:A:THR:H	1:162:A:LEU:HD12	20	0.17
(1,375)	1:160:A:THR:H	1:162:A:LEU:HD13	20	0.17
(1,375)	1:160:A:THR:H	1:162:A:LEU:HD21	20	0.17
(1,375)	1:160:A:THR:H	1:162:A:LEU:HD22	20	0.17
(1,375)	1:160:A:THR:H	1:162:A:LEU:HD23	20	0.17
(1,371)	1:47:A:GLN:H	1:47:A:GLN:HE21	17	0.17
(1,332)	1:47:A:GLN:H	1:53:A:LEU:H	19	0.17
(1,321)	1:65:A:ASP:HB3	1:66:A:THR:H	13	0.17
(1,316)	1:41:A:GLN:HE21	1:42:A:LEU:H	1	0.17
(1,311)	1:98:A:ALA:H	1:152:A:GLU:HB2	6	0.17
(1,311)	1:98:A:ALA:H	1:152:A:GLU:HB3	6	0.17
(1,305)	1:93:A:GLU:HA	1:94:A:ARG:HD2	7	0.17
(1,305)	1:93:A:GLU:HA	1:94:A:ARG:HD3	7	0.17
(1,270)	1:82:A:VAL:H	1:155:A:LEU:HB2	18	0.17
(1,270)	1:82:A:VAL:H	1:155:A:LEU:HB3	18	0.17
(1,264)	1:83:A:ARG:H	1:154:A:GLU:HB2	7	0.17
(1,264)	1:83:A:ARG:H	1:154:A:GLU:HB3	7	0.17
(1,216)	1:60:A:ALA:H	1:63:A:ARG:HD2	16	0.17
(1,216)	1:60:A:ALA:H	1:63:A:ARG:HD3	16	0.17
(1,185)	1:63:A:ARG:H	1:63:A:ARG:HD2	5	0.17
(1,185)	1:63:A:ARG:H	1:63:A:ARG:HD3	5	0.17
(1,160)	1:97:A:HIS:HB3	1:150:A:TRP:HZ3	20	0.17
(1,152)	1:49:A:ILE:HG21	1:50:A:ALA:HA	19	0.17
(1,152)	1:49:A:ILE:HG22	1:50:A:ALA:HA	19	0.17
(1,152)	1:49:A:ILE:HG23	1:50:A:ALA:HA	19	0.17
(1,147)	1:64:A:LYS:HD2	1:65:A:ASP:H	13	0.17
(1,147)	1:64:A:LYS:HD3	1:65:A:ASP:H	13	0.17
(1,115)	1:94:A:ARG:HA	1:124:A:HIS:H	4	0.17
(1,112)	1:88:A:LEU:HB2	1:150:A:TRP:HB3	1	0.17
(1,112)	1:88:A:LEU:HB3	1:150:A:TRP:HB3	1	0.17
(1,98)	1:79:A:GLN:H	1:81:A:ASP:H	11	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,97)	1:93:A:GLU:HB2	1:124:A:HIS:H	1	0.17
(1,97)	1:93:A:GLU:HB3	1:124:A:HIS:H	1	0.17
(1,90)	1:87:A:PHE:HE1	1:98:A:ALA:H	20	0.17
(1,90)	1:87:A:PHE:HE2	1:98:A:ALA:H	20	0.17
(1,82)	1:92:A:GLN:HB2	1:94:A:ARG:H	1	0.17
(1,82)	1:92:A:GLN:HB3	1:94:A:ARG:H	1	0.17
(1,78)	1:87:A:PHE:HA	1:151:A:VAL:HG11	3	0.17
(1,78)	1:87:A:PHE:HA	1:151:A:VAL:HG12	3	0.17
(1,78)	1:87:A:PHE:HA	1:151:A:VAL:HG13	3	0.17
(1,70)	1:45:A:ARG:HD2	1:47:A:GLN:H	7	0.17
(1,70)	1:45:A:ARG:HD3	1:47:A:GLN:H	7	0.17
(1,60)	1:47:A:GLN:HE22	1:52:A:GLN:H	2	0.17
(1,53)	1:87:A:PHE:HA	1:150:A:TRP:HA	14	0.17
(1,50)	1:150:A:TRP:HA	1:151:A:VAL:HB	17	0.17
(1,48)	1:65:A:ASP:HB3	1:68:A:VAL:HA	20	0.17
(1,1193)	1:148:A:LEU:HD11	1:149:A:GLY:H	17	0.16
(1,1193)	1:148:A:LEU:HD12	1:149:A:GLY:H	17	0.16
(1,1193)	1:148:A:LEU:HD13	1:149:A:GLY:H	17	0.16
(1,1193)	1:148:A:LEU:HD21	1:149:A:GLY:H	17	0.16
(1,1193)	1:148:A:LEU:HD22	1:149:A:GLY:H	17	0.16
(1,1193)	1:148:A:LEU:HD23	1:149:A:GLY:H	17	0.16
(1,1172)	1:95:A:LEU:HD11	1:96:A:ALA:H	9	0.16
(1,1172)	1:95:A:LEU:HD12	1:96:A:ALA:H	9	0.16
(1,1172)	1:95:A:LEU:HD13	1:96:A:ALA:H	9	0.16
(1,1172)	1:95:A:LEU:HD21	1:96:A:ALA:H	9	0.16
(1,1172)	1:95:A:LEU:HD22	1:96:A:ALA:H	9	0.16
(1,1172)	1:95:A:LEU:HD23	1:96:A:ALA:H	9	0.16
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD11	3	0.16
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD12	3	0.16
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD13	3	0.16
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD21	3	0.16
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD22	3	0.16
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD23	3	0.16
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD11	3	0.16
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD12	3	0.16
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD13	3	0.16
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD21	3	0.16
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD22	3	0.16
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD23	3	0.16
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD11	14	0.16
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD12	14	0.16
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD13	14	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD21	14	0.16
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD22	14	0.16
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD23	14	0.16
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD11	14	0.16
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD12	14	0.16
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD13	14	0.16
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD21	14	0.16
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD22	14	0.16
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD23	14	0.16
(1,1120)	1:77:A:LEU:HD11	1:98:A:ALA:H	6	0.16
(1,1120)	1:77:A:LEU:HD12	1:98:A:ALA:H	6	0.16
(1,1120)	1:77:A:LEU:HD13	1:98:A:ALA:H	6	0.16
(1,1120)	1:77:A:LEU:HD21	1:98:A:ALA:H	6	0.16
(1,1120)	1:77:A:LEU:HD22	1:98:A:ALA:H	6	0.16
(1,1120)	1:77:A:LEU:HD23	1:98:A:ALA:H	6	0.16
(1,1120)	1:77:A:LEU:HD11	1:98:A:ALA:H	9	0.16
(1,1120)	1:77:A:LEU:HD12	1:98:A:ALA:H	9	0.16
(1,1120)	1:77:A:LEU:HD13	1:98:A:ALA:H	9	0.16
(1,1120)	1:77:A:LEU:HD21	1:98:A:ALA:H	9	0.16
(1,1120)	1:77:A:LEU:HD22	1:98:A:ALA:H	9	0.16
(1,1120)	1:77:A:LEU:HD23	1:98:A:ALA:H	9	0.16
(1,1118)	1:77:A:LEU:HD11	1:87:A:PHE:HE1	16	0.16
(1,1118)	1:77:A:LEU:HD11	1:87:A:PHE:HE2	16	0.16
(1,1118)	1:77:A:LEU:HD12	1:87:A:PHE:HE1	16	0.16
(1,1118)	1:77:A:LEU:HD12	1:87:A:PHE:HE2	16	0.16
(1,1118)	1:77:A:LEU:HD13	1:87:A:PHE:HE1	16	0.16
(1,1118)	1:77:A:LEU:HD13	1:87:A:PHE:HE2	16	0.16
(1,1118)	1:77:A:LEU:HD21	1:87:A:PHE:HE1	16	0.16
(1,1118)	1:77:A:LEU:HD21	1:87:A:PHE:HE2	16	0.16
(1,1118)	1:77:A:LEU:HD22	1:87:A:PHE:HE1	16	0.16
(1,1118)	1:77:A:LEU:HD22	1:87:A:PHE:HE2	16	0.16
(1,1118)	1:77:A:LEU:HD23	1:87:A:PHE:HE1	16	0.16
(1,1118)	1:77:A:LEU:HD23	1:87:A:PHE:HE2	16	0.16
(1,1061)	1:89:A:ASP:H	1:149:A:GLY:HA3	8	0.16
(1,1061)	1:89:A:ASP:H	1:149:A:GLY:HA3	10	0.16
(1,1022)	1:71:A:ARG:HB2	1:72:A:ILE:HA	9	0.16
(1,1022)	1:71:A:ARG:HB3	1:72:A:ILE:HA	9	0.16
(1,1022)	1:71:A:ARG:HB2	1:72:A:ILE:HA	13	0.16
(1,1022)	1:71:A:ARG:HB3	1:72:A:ILE:HA	13	0.16
(1,1022)	1:71:A:ARG:HB2	1:72:A:ILE:HA	18	0.16
(1,1022)	1:71:A:ARG:HB3	1:72:A:ILE:HA	18	0.16
(1,1022)	1:71:A:ARG:HB2	1:72:A:ILE:HA	20	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1022)	1:71:A:ARG:HB3	1:72:A:ILE:HA	20	0.16
(1,1019)	1:47:A:GLN:HB2	1:48:A:LEU:H	11	0.16
(1,1019)	1:47:A:GLN:HB3	1:48:A:LEU:H	11	0.16
(1,988)	1:66:A:THR:HG21	1:67:A:ALA:H	3	0.16
(1,988)	1:66:A:THR:HG22	1:67:A:ALA:H	3	0.16
(1,988)	1:66:A:THR:HG23	1:67:A:ALA:H	3	0.16
(1,988)	1:66:A:THR:HG21	1:67:A:ALA:H	13	0.16
(1,988)	1:66:A:THR:HG22	1:67:A:ALA:H	13	0.16
(1,988)	1:66:A:THR:HG23	1:67:A:ALA:H	13	0.16
(1,983)	1:80:A:PRO:HA	1:164:A:GLY:HA2	9	0.16
(1,983)	1:80:A:PRO:HA	1:164:A:GLY:HA3	9	0.16
(1,983)	1:80:A:PRO:HA	1:164:A:GLY:HA2	19	0.16
(1,983)	1:80:A:PRO:HA	1:164:A:GLY:HA3	19	0.16
(1,967)	1:74:A:ASN:HA	1:74:A:ASN:HD22	3	0.16
(1,967)	1:74:A:ASN:HA	1:74:A:ASN:HD22	14	0.16
(1,967)	1:74:A:ASN:HA	1:74:A:ASN:HD22	16	0.16
(1,864)	1:90:A:ALA:HB1	1:149:A:GLY:H	16	0.16
(1,864)	1:90:A:ALA:HB2	1:149:A:GLY:H	16	0.16
(1,864)	1:90:A:ALA:HB3	1:149:A:GLY:H	16	0.16
(1,856)	1:73:A:ALA:H	1:77:A:LEU:HB2	8	0.16
(1,856)	1:73:A:ALA:H	1:77:A:LEU:HB3	8	0.16
(1,856)	1:73:A:ALA:H	1:77:A:LEU:HB2	15	0.16
(1,856)	1:73:A:ALA:H	1:77:A:LEU:HB3	15	0.16
(1,856)	1:73:A:ALA:H	1:77:A:LEU:HB2	17	0.16
(1,856)	1:73:A:ALA:H	1:77:A:LEU:HB3	17	0.16
(1,856)	1:73:A:ALA:H	1:77:A:LEU:HB2	19	0.16
(1,856)	1:73:A:ALA:H	1:77:A:LEU:HB3	19	0.16
(1,847)	1:60:A:ALA:HB1	1:68:A:VAL:H	12	0.16
(1,847)	1:60:A:ALA:HB2	1:68:A:VAL:H	12	0.16
(1,847)	1:60:A:ALA:HB3	1:68:A:VAL:H	12	0.16
(1,830)	1:56:A:LEU:H	1:57:A:ALA:HA	11	0.16
(1,829)	1:89:A:ASP:H	1:95:A:LEU:HD11	1	0.16
(1,829)	1:89:A:ASP:H	1:95:A:LEU:HD12	1	0.16
(1,829)	1:89:A:ASP:H	1:95:A:LEU:HD13	1	0.16
(1,821)	1:95:A:LEU:HG	1:96:A:ALA:H	17	0.16
(1,816)	1:51:A:GLU:HB2	1:52:A:GLN:HE21	6	0.16
(1,816)	1:51:A:GLU:HB3	1:52:A:GLN:HE21	6	0.16
(1,790)	1:74:A:ASN:HD21	1:98:A:ALA:HB1	3	0.16
(1,790)	1:74:A:ASN:HD21	1:98:A:ALA:HB2	3	0.16
(1,790)	1:74:A:ASN:HD21	1:98:A:ALA:HB3	3	0.16
(1,785)	1:67:A:ALA:HA	1:69:A:LEU:H	3	0.16
(1,785)	1:67:A:ALA:HA	1:69:A:LEU:H	18	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,785)	1:67:A:ALA:HA	1:69:A:LEU:H	19	0.16
(1,784)	1:147:A:VAL:H	1:149:A:GLY:H	1	0.16
(1,769)	1:68:A:VAL:H	1:72:A:ILE:HD11	16	0.16
(1,769)	1:68:A:VAL:H	1:72:A:ILE:HD12	16	0.16
(1,769)	1:68:A:VAL:H	1:72:A:ILE:HD13	16	0.16
(1,767)	1:89:A:ASP:H	1:93:A:GLU:HG2	17	0.16
(1,767)	1:89:A:ASP:H	1:93:A:GLU:HG3	17	0.16
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD11	6	0.16
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD12	6	0.16
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD13	6	0.16
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD21	6	0.16
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD22	6	0.16
(1,718)	1:160:A:THR:HB	1:161:A:LEU:HD23	6	0.16
(1,713)	1:120:A:LEU:HA	1:120:A:LEU:HD11	6	0.16
(1,713)	1:120:A:LEU:HA	1:120:A:LEU:HD12	6	0.16
(1,713)	1:120:A:LEU:HA	1:120:A:LEU:HD13	6	0.16
(1,713)	1:120:A:LEU:HA	1:120:A:LEU:HD21	6	0.16
(1,713)	1:120:A:LEU:HA	1:120:A:LEU:HD22	6	0.16
(1,713)	1:120:A:LEU:HA	1:120:A:LEU:HD23	6	0.16
(1,707)	1:74:A:ASN:HA	1:98:A:ALA:HB1	3	0.16
(1,707)	1:74:A:ASN:HA	1:98:A:ALA:HB2	3	0.16
(1,707)	1:74:A:ASN:HA	1:98:A:ALA:HB3	3	0.16
(1,706)	1:118:A:THR:HA	1:118:A:THR:HG21	12	0.16
(1,706)	1:118:A:THR:HA	1:118:A:THR:HG22	12	0.16
(1,706)	1:118:A:THR:HA	1:118:A:THR:HG23	12	0.16
(1,699)	1:90:A:ALA:HB1	1:147:A:VAL:HB	17	0.16
(1,699)	1:90:A:ALA:HB2	1:147:A:VAL:HB	17	0.16
(1,699)	1:90:A:ALA:HB3	1:147:A:VAL:HB	17	0.16
(1,688)	1:93:A:GLU:HA	1:125:A:PHE:H	15	0.16
(1,657)	1:59:A:THR:HA	1:62:A:ALA:H	14	0.16
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG21	8	0.16
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG22	8	0.16
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG23	8	0.16
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG21	10	0.16
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG22	10	0.16
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG23	10	0.16
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG21	15	0.16
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG22	15	0.16
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG23	15	0.16
(1,635)	1:82:A:VAL:HB	1:83:A:ARG:HA	3	0.16
(1,635)	1:82:A:VAL:HB	1:83:A:ARG:HA	15	0.16
(1,616)	1:38:A:MET:HA	1:42:A:LEU:HB2	7	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,616)	1:38:A:MET:HA	1:42:A:LEU:HB2	20	0.16
(1,592)	1:57:A:ALA:HA	1:158:A:HIS:HD2	13	0.16
(1,521)	1:98:A:ALA:HA	1:103:A:LEU:H	1	0.16
(1,512)	1:56:A:LEU:H	1:56:A:LEU:HG	20	0.16
(1,510)	1:148:A:LEU:HG	1:149:A:GLY:H	17	0.16
(1,486)	1:72:A:ILE:H	1:72:A:ILE:HD11	11	0.16
(1,486)	1:72:A:ILE:H	1:72:A:ILE:HD12	11	0.16
(1,486)	1:72:A:ILE:H	1:72:A:ILE:HD13	11	0.16
(1,485)	1:44:A:GLU:HG2	1:45:A:ARG:HA	5	0.16
(1,485)	1:44:A:GLU:HG3	1:45:A:ARG:HA	5	0.16
(1,481)	1:43:A:ILE:HA	1:45:A:ARG:HB2	7	0.16
(1,481)	1:43:A:ILE:HA	1:45:A:ARG:HB3	7	0.16
(1,446)	1:41:A:GLN:HG3	1:42:A:LEU:HA	19	0.16
(1,440)	1:65:A:ASP:HA	1:147:A:VAL:HG11	1	0.16
(1,440)	1:65:A:ASP:HA	1:147:A:VAL:HG12	1	0.16
(1,440)	1:65:A:ASP:HA	1:147:A:VAL:HG13	1	0.16
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG21	5	0.16
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG22	5	0.16
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG23	5	0.16
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG21	5	0.16
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG22	5	0.16
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG23	5	0.16
(1,432)	1:131:A:GLY:H	1:132:A:ARG:HG2	16	0.16
(1,432)	1:131:A:GLY:H	1:132:A:ARG:HG3	16	0.16
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD21	19	0.16
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD22	19	0.16
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD23	19	0.16
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD21	19	0.16
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD22	19	0.16
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD23	19	0.16
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD21	19	0.16
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD22	19	0.16
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD23	19	0.16
(1,404)	1:50:A:ALA:H	1:51:A:GLU:HB2	1	0.16
(1,404)	1:50:A:ALA:H	1:51:A:GLU:HB3	1	0.16
(1,400)	1:94:A:ARG:HA	1:123:A:THR:HA	8	0.16
(1,369)	1:44:A:GLU:HG2	1:45:A:ARG:H	14	0.16
(1,369)	1:44:A:GLU:HG3	1:45:A:ARG:H	14	0.16
(1,369)	1:44:A:GLU:HG2	1:45:A:ARG:H	20	0.16
(1,369)	1:44:A:GLU:HG3	1:45:A:ARG:H	20	0.16
(1,366)	1:70:A:ASN:H	1:72:A:ILE:HG12	12	0.16
(1,366)	1:70:A:ASN:H	1:72:A:ILE:HG13	12	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,366)	1:70:A:ASN:H	1:72:A:ILE:HG12	13	0.16
(1,366)	1:70:A:ASN:H	1:72:A:ILE:HG13	13	0.16
(1,366)	1:70:A:ASN:H	1:72:A:ILE:HG12	20	0.16
(1,366)	1:70:A:ASN:H	1:72:A:ILE:HG13	20	0.16
(1,335)	1:76:A:ALA:HB1	1:78:A:ASP:H	1	0.16
(1,335)	1:76:A:ALA:HB2	1:78:A:ASP:H	1	0.16
(1,335)	1:76:A:ALA:HB3	1:78:A:ASP:H	1	0.16
(1,335)	1:76:A:ALA:HB1	1:78:A:ASP:H	20	0.16
(1,335)	1:76:A:ALA:HB2	1:78:A:ASP:H	20	0.16
(1,335)	1:76:A:ALA:HB3	1:78:A:ASP:H	20	0.16
(1,331)	1:66:A:THR:H	1:147:A:VAL:HG21	13	0.16
(1,331)	1:66:A:THR:H	1:147:A:VAL:HG22	13	0.16
(1,331)	1:66:A:THR:H	1:147:A:VAL:HG23	13	0.16
(1,328)	1:47:A:GLN:HE21	1:52:A:GLN:H	11	0.16
(1,322)	1:60:A:ALA:H	1:65:A:ASP:HB2	2	0.16
(1,322)	1:60:A:ALA:H	1:65:A:ASP:HB2	8	0.16
(1,316)	1:41:A:GLN:HE21	1:42:A:LEU:H	18	0.16
(1,309)	1:146:A:ARG:HD2	1:147:A:VAL:H	5	0.16
(1,309)	1:146:A:ARG:HD3	1:147:A:VAL:H	5	0.16
(1,309)	1:146:A:ARG:HD2	1:147:A:VAL:H	19	0.16
(1,309)	1:146:A:ARG:HD3	1:147:A:VAL:H	19	0.16
(1,304)	1:83:A:ARG:HA	1:84:A:ALA:HB1	12	0.16
(1,304)	1:83:A:ARG:HA	1:84:A:ALA:HB2	12	0.16
(1,304)	1:83:A:ARG:HA	1:84:A:ALA:HB3	12	0.16
(1,291)	1:97:A:HIS:H	1:97:A:HIS:HD2	16	0.16
(1,282)	1:60:A:ALA:HB1	1:65:A:ASP:HB3	8	0.16
(1,282)	1:60:A:ALA:HB2	1:65:A:ASP:HB3	8	0.16
(1,282)	1:60:A:ALA:HB3	1:65:A:ASP:HB3	8	0.16
(1,281)	1:115:A:SER:HA	1:116:A:MET:HA	10	0.16
(1,281)	1:115:A:SER:HA	1:116:A:MET:HA	13	0.16
(1,270)	1:82:A:VAL:H	1:155:A:LEU:HB2	11	0.16
(1,270)	1:82:A:VAL:H	1:155:A:LEU:HB3	11	0.16
(1,248)	1:61:A:LEU:HD21	1:64:A:LYS:H	6	0.16
(1,248)	1:61:A:LEU:HD22	1:64:A:LYS:H	6	0.16
(1,248)	1:61:A:LEU:HD23	1:64:A:LYS:H	6	0.16
(1,208)	1:97:A:HIS:HB2	1:131:A:GLY:H	9	0.16
(1,192)	1:40:A:ALA:H	1:41:A:GLN:HG2	16	0.16
(1,185)	1:63:A:ARG:H	1:63:A:ARG:HD2	3	0.16
(1,185)	1:63:A:ARG:H	1:63:A:ARG:HD3	3	0.16
(1,185)	1:63:A:ARG:H	1:63:A:ARG:HD2	6	0.16
(1,185)	1:63:A:ARG:H	1:63:A:ARG:HD3	6	0.16
(1,185)	1:63:A:ARG:H	1:63:A:ARG:HD2	12	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,185)	1:63:A:ARG:H	1:63:A:ARG:HD3	12	0.16
(1,185)	1:63:A:ARG:H	1:63:A:ARG:HD2	20	0.16
(1,185)	1:63:A:ARG:H	1:63:A:ARG:HD3	20	0.16
(1,160)	1:97:A:HIS:HB3	1:150:A:TRP:HZ3	5	0.16
(1,139)	1:83:A:ARG:HG2	1:154:A:GLU:HA	20	0.16
(1,139)	1:83:A:ARG:HG3	1:154:A:GLU:HA	20	0.16
(1,136)	1:69:A:LEU:HD21	1:70:A:ASN:H	20	0.16
(1,136)	1:69:A:LEU:HD22	1:70:A:ASN:H	20	0.16
(1,136)	1:69:A:LEU:HD23	1:70:A:ASN:H	20	0.16
(1,134)	1:103:A:LEU:H	1:105:A:VAL:H	7	0.16
(1,134)	1:103:A:LEU:H	1:105:A:VAL:H	9	0.16
(1,112)	1:88:A:LEU:HB2	1:150:A:TRP:HB3	4	0.16
(1,112)	1:88:A:LEU:HB3	1:150:A:TRP:HB3	4	0.16
(1,104)	1:70:A:ASN:HD22	1:71:A:ARG:HD2	1	0.16
(1,104)	1:70:A:ASN:HD22	1:71:A:ARG:HD3	1	0.16
(1,103)	1:81:A:ASP:H	1:163:A:ARG:HH11	19	0.16
(1,103)	1:81:A:ASP:H	1:163:A:ARG:HH12	19	0.16
(1,77)	1:88:A:LEU:HD11	1:124:A:HIS:H	4	0.16
(1,77)	1:88:A:LEU:HD12	1:124:A:HIS:H	4	0.16
(1,77)	1:88:A:LEU:HD13	1:124:A:HIS:H	4	0.16
(1,77)	1:88:A:LEU:HD11	1:124:A:HIS:H	9	0.16
(1,77)	1:88:A:LEU:HD12	1:124:A:HIS:H	9	0.16
(1,77)	1:88:A:LEU:HD13	1:124:A:HIS:H	9	0.16
(1,65)	1:147:A:VAL:HG21	1:149:A:GLY:HA2	6	0.16
(1,65)	1:147:A:VAL:HG22	1:149:A:GLY:HA2	6	0.16
(1,65)	1:147:A:VAL:HG23	1:149:A:GLY:HA2	6	0.16
(1,65)	1:147:A:VAL:HG21	1:149:A:GLY:HA3	6	0.16
(1,65)	1:147:A:VAL:HG22	1:149:A:GLY:HA3	6	0.16
(1,65)	1:147:A:VAL:HG23	1:149:A:GLY:HA3	6	0.16
(1,65)	1:147:A:VAL:HG21	1:149:A:GLY:HA2	15	0.16
(1,65)	1:147:A:VAL:HG22	1:149:A:GLY:HA2	15	0.16
(1,65)	1:147:A:VAL:HG23	1:149:A:GLY:HA2	15	0.16
(1,65)	1:147:A:VAL:HG21	1:149:A:GLY:HA3	15	0.16
(1,65)	1:147:A:VAL:HG22	1:149:A:GLY:HA3	15	0.16
(1,65)	1:147:A:VAL:HG23	1:149:A:GLY:HA3	15	0.16
(1,53)	1:87:A:PHE:HA	1:150:A:TRP:HA	4	0.16
(1,51)	1:90:A:ALA:H	1:91:A:ARG:HA	18	0.16
(1,45)	1:94:A:ARG:H	1:125:A:PHE:H	15	0.16
(1,30)	1:97:A:HIS:H	1:98:A:ALA:HA	18	0.16
(1,17)	1:70:A:ASN:HD21	1:74:A:ASN:HB2	20	0.16
(1,16)	1:56:A:LEU:HD11	1:72:A:ILE:H	11	0.16
(1,16)	1:56:A:LEU:HD12	1:72:A:ILE:H	11	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,16)	1:56:A:LEU:HD13	1:72:A:ILE:H	11	0.16
(1,16)	1:56:A:LEU:HD21	1:72:A:ILE:H	11	0.16
(1,16)	1:56:A:LEU:HD22	1:72:A:ILE:H	11	0.16
(1,16)	1:56:A:LEU:HD23	1:72:A:ILE:H	11	0.16
(1,1120)	1:77:A:LEU:HD11	1:98:A:ALA:H	4	0.15
(1,1120)	1:77:A:LEU:HD12	1:98:A:ALA:H	4	0.15
(1,1120)	1:77:A:LEU:HD13	1:98:A:ALA:H	4	0.15
(1,1120)	1:77:A:LEU:HD21	1:98:A:ALA:H	4	0.15
(1,1120)	1:77:A:LEU:HD22	1:98:A:ALA:H	4	0.15
(1,1120)	1:77:A:LEU:HD23	1:98:A:ALA:H	4	0.15
(1,1095)	1:68:A:VAL:HG11	1:71:A:ARG:HD2	9	0.15
(1,1095)	1:68:A:VAL:HG11	1:71:A:ARG:HD3	9	0.15
(1,1095)	1:68:A:VAL:HG12	1:71:A:ARG:HD2	9	0.15
(1,1095)	1:68:A:VAL:HG12	1:71:A:ARG:HD3	9	0.15
(1,1095)	1:68:A:VAL:HG13	1:71:A:ARG:HD2	9	0.15
(1,1095)	1:68:A:VAL:HG13	1:71:A:ARG:HD3	9	0.15
(1,1095)	1:68:A:VAL:HG21	1:71:A:ARG:HD2	9	0.15
(1,1095)	1:68:A:VAL:HG21	1:71:A:ARG:HD3	9	0.15
(1,1095)	1:68:A:VAL:HG22	1:71:A:ARG:HD2	9	0.15
(1,1095)	1:68:A:VAL:HG22	1:71:A:ARG:HD3	9	0.15
(1,1095)	1:68:A:VAL:HG23	1:71:A:ARG:HD2	9	0.15
(1,1095)	1:68:A:VAL:HG23	1:71:A:ARG:HD3	9	0.15
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG11	15	0.15
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG12	15	0.15
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG13	15	0.15
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG21	15	0.15
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG22	15	0.15
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG23	15	0.15
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG11	16	0.15
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG12	16	0.15
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG13	16	0.15
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG21	16	0.15
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG22	16	0.15
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG23	16	0.15
(1,1054)	1:61:A:LEU:HB2	1:65:A:ASP:H	5	0.15
(1,1054)	1:61:A:LEU:HB3	1:65:A:ASP:H	5	0.15
(1,1022)	1:71:A:ARG:HB2	1:72:A:ILE:HA	4	0.15
(1,1022)	1:71:A:ARG:HB3	1:72:A:ILE:HA	4	0.15
(1,1022)	1:71:A:ARG:HB2	1:72:A:ILE:HA	7	0.15
(1,1022)	1:71:A:ARG:HB3	1:72:A:ILE:HA	7	0.15
(1,1022)	1:71:A:ARG:HB2	1:72:A:ILE:HA	8	0.15
(1,1022)	1:71:A:ARG:HB3	1:72:A:ILE:HA	8	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1022)	1:71:A:ARG:HB2	1:72:A:ILE:HA	17	0.15
(1,1022)	1:71:A:ARG:HB3	1:72:A:ILE:HA	17	0.15
(1,1017)	1:64:A:LYS:HD2	1:141:A:GLU:HB2	2	0.15
(1,1017)	1:64:A:LYS:HD2	1:141:A:GLU:HB3	2	0.15
(1,1017)	1:64:A:LYS:HD3	1:141:A:GLU:HB2	2	0.15
(1,1017)	1:64:A:LYS:HD3	1:141:A:GLU:HB3	2	0.15
(1,1017)	1:64:A:LYS:HD2	1:141:A:GLU:HB2	17	0.15
(1,1017)	1:64:A:LYS:HD2	1:141:A:GLU:HB3	17	0.15
(1,1017)	1:64:A:LYS:HD3	1:141:A:GLU:HB2	17	0.15
(1,1017)	1:64:A:LYS:HD3	1:141:A:GLU:HB3	17	0.15
(1,988)	1:66:A:THR:HG21	1:67:A:ALA:H	18	0.15
(1,988)	1:66:A:THR:HG22	1:67:A:ALA:H	18	0.15
(1,988)	1:66:A:THR:HG23	1:67:A:ALA:H	18	0.15
(1,983)	1:80:A:PRO:HA	1:164:A:GLY:HA2	16	0.15
(1,983)	1:80:A:PRO:HA	1:164:A:GLY:HA3	16	0.15
(1,983)	1:80:A:PRO:HA	1:164:A:GLY:HA2	20	0.15
(1,983)	1:80:A:PRO:HA	1:164:A:GLY:HA3	20	0.15
(1,973)	1:119:A:GLU:HB2	1:122:A:THR:H	12	0.15
(1,973)	1:119:A:GLU:HB3	1:122:A:THR:H	12	0.15
(1,967)	1:74:A:ASN:HA	1:74:A:ASN:HD22	12	0.15
(1,965)	1:56:A:LEU:HG	1:57:A:ALA:HA	18	0.15
(1,965)	1:56:A:LEU:HG	1:57:A:ALA:HA	19	0.15
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG21	7	0.15
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG22	7	0.15
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG23	7	0.15
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG21	20	0.15
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG22	20	0.15
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG23	20	0.15
(1,958)	1:85:A:VAL:HG11	1:152:A:GLU:H	5	0.15
(1,958)	1:85:A:VAL:HG12	1:152:A:GLU:H	5	0.15
(1,958)	1:85:A:VAL:HG13	1:152:A:GLU:H	5	0.15
(1,945)	1:146:A:ARG:H	1:146:A:ARG:HG2	13	0.15
(1,945)	1:146:A:ARG:H	1:146:A:ARG:HG3	13	0.15
(1,927)	1:94:A:ARG:HG2	1:131:A:GLY:H	8	0.15
(1,927)	1:94:A:ARG:HG3	1:131:A:GLY:H	8	0.15
(1,876)	1:64:A:LYS:H	1:64:A:LYS:HD2	14	0.15
(1,876)	1:64:A:LYS:H	1:64:A:LYS:HD3	14	0.15
(1,856)	1:73:A:ALA:H	1:77:A:LEU:HB2	2	0.15
(1,856)	1:73:A:ALA:H	1:77:A:LEU:HB3	2	0.15
(1,856)	1:73:A:ALA:H	1:77:A:LEU:HB2	9	0.15
(1,856)	1:73:A:ALA:H	1:77:A:LEU:HB3	9	0.15
(1,847)	1:60:A:ALA:HB1	1:68:A:VAL:H	9	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,847)	1:60:A:ALA:HB2	1:68:A:VAL:H	9	0.15
(1,847)	1:60:A:ALA:HB3	1:68:A:VAL:H	9	0.15
(1,843)	1:71:A:ARG:H	1:72:A:ILE:HG21	4	0.15
(1,843)	1:71:A:ARG:H	1:72:A:ILE:HG22	4	0.15
(1,843)	1:71:A:ARG:H	1:72:A:ILE:HG23	4	0.15
(1,843)	1:71:A:ARG:H	1:72:A:ILE:HG21	17	0.15
(1,843)	1:71:A:ARG:H	1:72:A:ILE:HG22	17	0.15
(1,843)	1:71:A:ARG:H	1:72:A:ILE:HG23	17	0.15
(1,830)	1:56:A:LEU:H	1:57:A:ALA:HA	3	0.15
(1,830)	1:56:A:LEU:H	1:57:A:ALA:HA	18	0.15
(1,810)	1:76:A:ALA:HB1	1:79:A:GLN:H	20	0.15
(1,810)	1:76:A:ALA:HB2	1:79:A:GLN:H	20	0.15
(1,810)	1:76:A:ALA:HB3	1:79:A:GLN:H	20	0.15
(1,793)	1:69:A:LEU:HD11	1:71:A:ARG:H	1	0.15
(1,793)	1:69:A:LEU:HD12	1:71:A:ARG:H	1	0.15
(1,793)	1:69:A:LEU:HD13	1:71:A:ARG:H	1	0.15
(1,790)	1:74:A:ASN:HD21	1:98:A:ALA:HB1	13	0.15
(1,790)	1:74:A:ASN:HD21	1:98:A:ALA:HB2	13	0.15
(1,790)	1:74:A:ASN:HD21	1:98:A:ALA:HB3	13	0.15
(1,785)	1:67:A:ALA:HA	1:69:A:LEU:H	2	0.15
(1,785)	1:67:A:ALA:HA	1:69:A:LEU:H	4	0.15
(1,779)	1:88:A:LEU:HA	1:96:A:ALA:H	20	0.15
(1,766)	1:59:A:THR:HA	1:62:A:ALA:HB1	13	0.15
(1,766)	1:59:A:THR:HA	1:62:A:ALA:HB2	13	0.15
(1,766)	1:59:A:THR:HA	1:62:A:ALA:HB3	13	0.15
(1,766)	1:59:A:THR:HA	1:62:A:ALA:HB1	19	0.15
(1,766)	1:59:A:THR:HA	1:62:A:ALA:HB2	19	0.15
(1,766)	1:59:A:THR:HA	1:62:A:ALA:HB3	19	0.15
(1,761)	1:148:A:LEU:HA	1:148:A:LEU:HG	20	0.15
(1,752)	1:140:A:THR:HG21	1:141:A:GLU:H	3	0.15
(1,752)	1:140:A:THR:HG22	1:141:A:GLU:H	3	0.15
(1,752)	1:140:A:THR:HG23	1:141:A:GLU:H	3	0.15
(1,737)	1:47:A:GLN:HE21	1:52:A:GLN:HE21	8	0.15
(1,695)	1:42:A:LEU:HA	1:56:A:LEU:HB2	12	0.15
(1,695)	1:42:A:LEU:HA	1:56:A:LEU:HB3	12	0.15
(1,660)	1:57:A:ALA:HB1	1:69:A:LEU:HD21	9	0.15
(1,660)	1:57:A:ALA:HB1	1:69:A:LEU:HD22	9	0.15
(1,660)	1:57:A:ALA:HB1	1:69:A:LEU:HD23	9	0.15
(1,660)	1:57:A:ALA:HB2	1:69:A:LEU:HD21	9	0.15
(1,660)	1:57:A:ALA:HB2	1:69:A:LEU:HD22	9	0.15
(1,660)	1:57:A:ALA:HB2	1:69:A:LEU:HD23	9	0.15
(1,660)	1:57:A:ALA:HB3	1:69:A:LEU:HD21	9	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,660)	1:57:A:ALA:HB3	1:69:A:LEU:HD22	9	0.15
(1,660)	1:57:A:ALA:HB3	1:69:A:LEU:HD23	9	0.15
(1,660)	1:57:A:ALA:HB1	1:69:A:LEU:HD21	18	0.15
(1,660)	1:57:A:ALA:HB1	1:69:A:LEU:HD22	18	0.15
(1,660)	1:57:A:ALA:HB1	1:69:A:LEU:HD23	18	0.15
(1,660)	1:57:A:ALA:HB2	1:69:A:LEU:HD21	18	0.15
(1,660)	1:57:A:ALA:HB2	1:69:A:LEU:HD22	18	0.15
(1,660)	1:57:A:ALA:HB2	1:69:A:LEU:HD23	18	0.15
(1,660)	1:57:A:ALA:HB3	1:69:A:LEU:HD21	18	0.15
(1,660)	1:57:A:ALA:HB3	1:69:A:LEU:HD22	18	0.15
(1,660)	1:57:A:ALA:HB3	1:69:A:LEU:HD23	18	0.15
(1,657)	1:59:A:THR:HA	1:62:A:ALA:H	16	0.15
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG11	9	0.15
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG12	9	0.15
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG13	9	0.15
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG21	9	0.15
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG22	9	0.15
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG23	9	0.15
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG11	17	0.15
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG12	17	0.15
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG13	17	0.15
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG21	17	0.15
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG22	17	0.15
(1,639)	1:78:A:ASP:H	1:82:A:VAL:HG23	17	0.15
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG21	9	0.15
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG22	9	0.15
(1,638)	1:71:A:ARG:HE	1:72:A:ILE:HG23	9	0.15
(1,635)	1:82:A:VAL:HB	1:83:A:ARG:HA	7	0.15
(1,632)	1:105:A:VAL:HG11	1:106:A:ALA:HA	1	0.15
(1,632)	1:105:A:VAL:HG12	1:106:A:ALA:HA	1	0.15
(1,632)	1:105:A:VAL:HG13	1:106:A:ALA:HA	1	0.15
(1,632)	1:105:A:VAL:HG21	1:106:A:ALA:HA	1	0.15
(1,632)	1:105:A:VAL:HG22	1:106:A:ALA:HA	1	0.15
(1,632)	1:105:A:VAL:HG23	1:106:A:ALA:HA	1	0.15
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD21	14	0.15
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD22	14	0.15
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD23	14	0.15
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD21	14	0.15
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD22	14	0.15
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD23	14	0.15
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD21	14	0.15
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD22	14	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD23	14	0.15
(1,593)	1:79:A:GLN:HG3	1:111:A:ALA:HA	3	0.15
(1,592)	1:57:A:ALA:HA	1:158:A:HIS:HD2	17	0.15
(1,547)	1:61:A:LEU:HD21	1:64:A:LYS:HA	13	0.15
(1,547)	1:61:A:LEU:HD22	1:64:A:LYS:HA	13	0.15
(1,547)	1:61:A:LEU:HD23	1:64:A:LYS:HA	13	0.15
(1,509)	1:43:A:ILE:HD11	1:53:A:LEU:H	18	0.15
(1,509)	1:43:A:ILE:HD12	1:53:A:LEU:H	18	0.15
(1,509)	1:43:A:ILE:HD13	1:53:A:LEU:H	18	0.15
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB1	5	0.15
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB2	5	0.15
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB3	5	0.15
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB1	5	0.15
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB2	5	0.15
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB3	5	0.15
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB1	5	0.15
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB2	5	0.15
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB3	5	0.15
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB1	5	0.15
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB2	5	0.15
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB3	5	0.15
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB1	5	0.15
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB2	5	0.15
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB3	5	0.15
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB1	5	0.15
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB2	5	0.15
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB3	5	0.15
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB1	14	0.15
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB2	14	0.15
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB3	14	0.15
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB1	14	0.15
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB2	14	0.15
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB3	14	0.15
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB1	14	0.15
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB2	14	0.15
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB3	14	0.15
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB1	14	0.15
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB2	14	0.15
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB3	14	0.15
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB1	14	0.15
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB2	14	0.15
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB3	14	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB1	14	0.15
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB2	14	0.15
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB3	14	0.15
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB1	17	0.15
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB2	17	0.15
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB3	17	0.15
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB1	17	0.15
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB2	17	0.15
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB3	17	0.15
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB1	17	0.15
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB2	17	0.15
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB3	17	0.15
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB1	17	0.15
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB2	17	0.15
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB3	17	0.15
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB1	17	0.15
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB2	17	0.15
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB3	17	0.15
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB1	17	0.15
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB2	17	0.15
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB3	17	0.15
(1,485)	1:44:A:GLU:HG2	1:45:A:ARG:HA	2	0.15
(1,485)	1:44:A:GLU:HG3	1:45:A:ARG:HA	2	0.15
(1,485)	1:44:A:GLU:HG2	1:45:A:ARG:HA	12	0.15
(1,485)	1:44:A:GLU:HG3	1:45:A:ARG:HA	12	0.15
(1,481)	1:43:A:ILE:HA	1:45:A:ARG:HB2	4	0.15
(1,481)	1:43:A:ILE:HA	1:45:A:ARG:HB3	4	0.15
(1,481)	1:43:A:ILE:HA	1:45:A:ARG:HB2	11	0.15
(1,481)	1:43:A:ILE:HA	1:45:A:ARG:HB3	11	0.15
(1,461)	1:43:A:ILE:HD11	1:47:A:GLN:H	20	0.15
(1,461)	1:43:A:ILE:HD12	1:47:A:GLN:H	20	0.15
(1,461)	1:43:A:ILE:HD13	1:47:A:GLN:H	20	0.15
(1,448)	1:86:A:THR:HG21	1:150:A:TRP:HE3	12	0.15
(1,448)	1:86:A:THR:HG22	1:150:A:TRP:HE3	12	0.15
(1,448)	1:86:A:THR:HG23	1:150:A:TRP:HE3	12	0.15
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG21	4	0.15
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG22	4	0.15
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG23	4	0.15
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG21	4	0.15
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG22	4	0.15
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG23	4	0.15
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG21	8	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG22	8	0.15
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG23	8	0.15
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG21	8	0.15
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG22	8	0.15
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG23	8	0.15
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG21	11	0.15
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG22	11	0.15
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG23	11	0.15
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG21	11	0.15
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG22	11	0.15
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG23	11	0.15
(1,436)	1:90:A:ALA:HB1	1:148:A:LEU:H	3	0.15
(1,436)	1:90:A:ALA:HB2	1:148:A:LEU:H	3	0.15
(1,436)	1:90:A:ALA:HB3	1:148:A:LEU:H	3	0.15
(1,436)	1:90:A:ALA:HB1	1:148:A:LEU:H	4	0.15
(1,436)	1:90:A:ALA:HB2	1:148:A:LEU:H	4	0.15
(1,436)	1:90:A:ALA:HB3	1:148:A:LEU:H	4	0.15
(1,436)	1:90:A:ALA:HB1	1:148:A:LEU:H	12	0.15
(1,436)	1:90:A:ALA:HB2	1:148:A:LEU:H	12	0.15
(1,436)	1:90:A:ALA:HB3	1:148:A:LEU:H	12	0.15
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD21	4	0.15
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD22	4	0.15
(1,430)	1:68:A:VAL:HG21	1:69:A:LEU:HD23	4	0.15
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD21	4	0.15
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD22	4	0.15
(1,430)	1:68:A:VAL:HG22	1:69:A:LEU:HD23	4	0.15
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD21	4	0.15
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD22	4	0.15
(1,430)	1:68:A:VAL:HG23	1:69:A:LEU:HD23	4	0.15
(1,406)	1:160:A:THR:HB	1:161:A:LEU:HB2	15	0.15
(1,406)	1:160:A:THR:HB	1:161:A:LEU:HB3	15	0.15
(1,369)	1:44:A:GLU:HG2	1:45:A:ARG:H	4	0.15
(1,369)	1:44:A:GLU:HG3	1:45:A:ARG:H	4	0.15
(1,359)	1:64:A:LYS:HB2	1:141:A:GLU:H	8	0.15
(1,359)	1:64:A:LYS:HB3	1:141:A:GLU:H	8	0.15
(1,358)	1:51:A:GLU:H	1:52:A:GLN:HB2	16	0.15
(1,358)	1:51:A:GLU:H	1:52:A:GLN:HB3	16	0.15
(1,331)	1:66:A:THR:H	1:147:A:VAL:HG21	18	0.15
(1,331)	1:66:A:THR:H	1:147:A:VAL:HG22	18	0.15
(1,331)	1:66:A:THR:H	1:147:A:VAL:HG23	18	0.15
(1,329)	1:45:A:ARG:HG2	1:65:A:ASP:HB2	15	0.15
(1,329)	1:45:A:ARG:HG3	1:65:A:ASP:HB2	15	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,319)	1:66:A:THR:HG21	1:71:A:ARG:H	18	0.15
(1,319)	1:66:A:THR:HG22	1:71:A:ARG:H	18	0.15
(1,319)	1:66:A:THR:HG23	1:71:A:ARG:H	18	0.15
(1,316)	1:41:A:GLN:HE21	1:42:A:LEU:H	9	0.15
(1,309)	1:146:A:ARG:HD2	1:147:A:VAL:H	11	0.15
(1,309)	1:146:A:ARG:HD3	1:147:A:VAL:H	11	0.15
(1,291)	1:97:A:HIS:H	1:97:A:HIS:HD2	8	0.15
(1,278)	1:47:A:GLN:H	1:52:A:GLN:HE21	14	0.15
(1,270)	1:82:A:VAL:H	1:155:A:LEU:HB2	19	0.15
(1,270)	1:82:A:VAL:H	1:155:A:LEU:HB3	19	0.15
(1,257)	1:104:A:THR:H	1:106:A:ALA:H	14	0.15
(1,257)	1:104:A:THR:H	1:106:A:ALA:H	16	0.15
(1,248)	1:61:A:LEU:HD21	1:64:A:LYS:H	17	0.15
(1,248)	1:61:A:LEU:HD22	1:64:A:LYS:H	17	0.15
(1,248)	1:61:A:LEU:HD23	1:64:A:LYS:H	17	0.15
(1,217)	1:66:A:THR:HA	1:87:A:PHE:HE1	7	0.15
(1,217)	1:66:A:THR:HA	1:87:A:PHE:HE2	7	0.15
(1,212)	1:47:A:GLN:H	1:51:A:GLU:H	13	0.15
(1,208)	1:97:A:HIS:HB2	1:131:A:GLY:H	11	0.15
(1,194)	1:64:A:LYS:HE2	1:69:A:LEU:HD21	3	0.15
(1,194)	1:64:A:LYS:HE2	1:69:A:LEU:HD22	3	0.15
(1,194)	1:64:A:LYS:HE2	1:69:A:LEU:HD23	3	0.15
(1,194)	1:64:A:LYS:HE3	1:69:A:LEU:HD21	3	0.15
(1,194)	1:64:A:LYS:HE3	1:69:A:LEU:HD22	3	0.15
(1,194)	1:64:A:LYS:HE3	1:69:A:LEU:HD23	3	0.15
(1,192)	1:40:A:ALA:H	1:41:A:GLN:HG2	12	0.15
(1,192)	1:40:A:ALA:H	1:41:A:GLN:HG2	19	0.15
(1,182)	1:69:A:LEU:HD11	1:70:A:ASN:H	9	0.15
(1,182)	1:69:A:LEU:HD12	1:70:A:ASN:H	9	0.15
(1,182)	1:69:A:LEU:HD13	1:70:A:ASN:H	9	0.15
(1,182)	1:69:A:LEU:HD11	1:70:A:ASN:H	13	0.15
(1,182)	1:69:A:LEU:HD12	1:70:A:ASN:H	13	0.15
(1,182)	1:69:A:LEU:HD13	1:70:A:ASN:H	13	0.15
(1,156)	1:88:A:LEU:HG	1:89:A:ASP:HB2	9	0.15
(1,156)	1:88:A:LEU:HG	1:89:A:ASP:HB3	9	0.15
(1,147)	1:64:A:LYS:HD2	1:65:A:ASP:H	14	0.15
(1,147)	1:64:A:LYS:HD3	1:65:A:ASP:H	14	0.15
(1,136)	1:69:A:LEU:HD21	1:70:A:ASN:H	10	0.15
(1,136)	1:69:A:LEU:HD22	1:70:A:ASN:H	10	0.15
(1,136)	1:69:A:LEU:HD23	1:70:A:ASN:H	10	0.15
(1,133)	1:65:A:ASP:HA	1:147:A:VAL:HG21	10	0.15
(1,133)	1:65:A:ASP:HA	1:147:A:VAL:HG22	10	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,133)	1:65:A:ASP:HA	1:147:A:VAL:HG23	10	0.15
(1,129)	1:70:A:ASN:HB2	1:71:A:ARG:HE	6	0.15
(1,114)	1:118:A:THR:H	1:119:A:GLU:HB2	7	0.15
(1,114)	1:118:A:THR:H	1:119:A:GLU:HB3	7	0.15
(1,111)	1:88:A:LEU:HA	1:150:A:TRP:HZ2	5	0.15
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB1	19	0.15
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB2	19	0.15
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB3	19	0.15
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB1	19	0.15
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB2	19	0.15
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB3	19	0.15
(1,108)	1:39:A:ARG:HD2	1:43:A:ILE:HG21	12	0.15
(1,108)	1:39:A:ARG:HD2	1:43:A:ILE:HG22	12	0.15
(1,108)	1:39:A:ARG:HD2	1:43:A:ILE:HG23	12	0.15
(1,108)	1:39:A:ARG:HD3	1:43:A:ILE:HG21	12	0.15
(1,108)	1:39:A:ARG:HD3	1:43:A:ILE:HG22	12	0.15
(1,108)	1:39:A:ARG:HD3	1:43:A:ILE:HG23	12	0.15
(1,102)	1:51:A:GLU:H	1:52:A:GLN:HE21	11	0.15
(1,50)	1:150:A:TRP:HA	1:151:A:VAL:HB	5	0.15
(1,43)	1:83:A:ARG:HA	1:155:A:LEU:HA	5	0.15
(1,38)	1:93:A:GLU:H	1:123:A:THR:HG21	10	0.15
(1,38)	1:93:A:GLU:H	1:123:A:THR:HG22	10	0.15
(1,38)	1:93:A:GLU:H	1:123:A:THR:HG23	10	0.15
(1,34)	1:88:A:LEU:H	1:150:A:TRP:HH2	9	0.15
(1,1193)	1:148:A:LEU:HD11	1:149:A:GLY:H	12	0.14
(1,1193)	1:148:A:LEU:HD12	1:149:A:GLY:H	12	0.14
(1,1193)	1:148:A:LEU:HD13	1:149:A:GLY:H	12	0.14
(1,1193)	1:148:A:LEU:HD21	1:149:A:GLY:H	12	0.14
(1,1193)	1:148:A:LEU:HD22	1:149:A:GLY:H	12	0.14
(1,1193)	1:148:A:LEU:HD23	1:149:A:GLY:H	12	0.14
(1,1176)	1:124:A:HIS:HD2	1:127:A:LEU:HD11	15	0.14
(1,1176)	1:124:A:HIS:HD2	1:127:A:LEU:HD12	15	0.14
(1,1176)	1:124:A:HIS:HD2	1:127:A:LEU:HD13	15	0.14
(1,1176)	1:124:A:HIS:HD2	1:127:A:LEU:HD21	15	0.14
(1,1176)	1:124:A:HIS:HD2	1:127:A:LEU:HD22	15	0.14
(1,1176)	1:124:A:HIS:HD2	1:127:A:LEU:HD23	15	0.14
(1,1172)	1:95:A:LEU:HD11	1:96:A:ALA:H	16	0.14
(1,1172)	1:95:A:LEU:HD12	1:96:A:ALA:H	16	0.14
(1,1172)	1:95:A:LEU:HD13	1:96:A:ALA:H	16	0.14
(1,1172)	1:95:A:LEU:HD21	1:96:A:ALA:H	16	0.14
(1,1172)	1:95:A:LEU:HD22	1:96:A:ALA:H	16	0.14
(1,1172)	1:95:A:LEU:HD23	1:96:A:ALA:H	16	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD11	2	0.14
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD12	2	0.14
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD13	2	0.14
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD21	2	0.14
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD22	2	0.14
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD23	2	0.14
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD11	2	0.14
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD12	2	0.14
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD13	2	0.14
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD21	2	0.14
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD22	2	0.14
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD23	2	0.14
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD11	4	0.14
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD12	4	0.14
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD13	4	0.14
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD21	4	0.14
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD22	4	0.14
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD23	4	0.14
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD11	4	0.14
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD12	4	0.14
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD13	4	0.14
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD21	4	0.14
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD22	4	0.14
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD23	4	0.14
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD11	4	0.14
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD12	4	0.14
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD13	4	0.14
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD21	4	0.14
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD22	4	0.14
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD23	4	0.14
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD11	14	0.14
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD12	14	0.14
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD13	14	0.14
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD21	14	0.14
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD22	14	0.14
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD23	14	0.14
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD11	13	0.14
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD12	13	0.14
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD13	13	0.14
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD21	13	0.14
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD22	13	0.14
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD23	13	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD11	13	0.14
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD12	13	0.14
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD13	13	0.14
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD21	13	0.14
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD22	13	0.14
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD23	13	0.14
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD11	13	0.14
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD12	13	0.14
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD13	13	0.14
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD21	13	0.14
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD22	13	0.14
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD23	13	0.14
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD11	13	0.14
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD12	13	0.14
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD13	13	0.14
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD21	13	0.14
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD22	13	0.14
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD23	13	0.14
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD11	13	0.14
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD12	13	0.14
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD13	13	0.14
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD21	13	0.14
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD22	13	0.14
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD23	13	0.14
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD11	13	0.14
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD12	13	0.14
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD13	13	0.14
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD21	13	0.14
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD22	13	0.14
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD23	13	0.14
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD11	1	0.14
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD12	1	0.14
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD13	1	0.14
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD21	1	0.14
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD22	1	0.14
(1,1133)	1:82:A:VAL:HB	1:155:A:LEU:HD23	1	0.14
(1,1129)	1:81:A:ASP:HB2	1:162:A:LEU:HB2	7	0.14
(1,1129)	1:81:A:ASP:HB2	1:162:A:LEU:HB3	7	0.14
(1,1129)	1:81:A:ASP:HB3	1:162:A:LEU:HB2	7	0.14
(1,1129)	1:81:A:ASP:HB3	1:162:A:LEU:HB3	7	0.14
(1,1095)	1:68:A:VAL:HG11	1:71:A:ARG:HD2	19	0.14
(1,1095)	1:68:A:VAL:HG11	1:71:A:ARG:HD3	19	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1095)	1:68:A:VAL:HG12	1:71:A:ARG:HD2	19	0.14
(1,1095)	1:68:A:VAL:HG12	1:71:A:ARG:HD3	19	0.14
(1,1095)	1:68:A:VAL:HG13	1:71:A:ARG:HD2	19	0.14
(1,1095)	1:68:A:VAL:HG13	1:71:A:ARG:HD3	19	0.14
(1,1095)	1:68:A:VAL:HG21	1:71:A:ARG:HD2	19	0.14
(1,1095)	1:68:A:VAL:HG21	1:71:A:ARG:HD3	19	0.14
(1,1095)	1:68:A:VAL:HG22	1:71:A:ARG:HD2	19	0.14
(1,1095)	1:68:A:VAL:HG22	1:71:A:ARG:HD3	19	0.14
(1,1095)	1:68:A:VAL:HG23	1:71:A:ARG:HD2	19	0.14
(1,1095)	1:68:A:VAL:HG23	1:71:A:ARG:HD3	19	0.14
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG11	2	0.14
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG12	2	0.14
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG13	2	0.14
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG21	2	0.14
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG22	2	0.14
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG23	2	0.14
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG11	4	0.14
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG12	4	0.14
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG13	4	0.14
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG21	4	0.14
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG22	4	0.14
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG23	4	0.14
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG11	5	0.14
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG12	5	0.14
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG13	5	0.14
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG21	5	0.14
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG22	5	0.14
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG23	5	0.14
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG11	6	0.14
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG12	6	0.14
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG13	6	0.14
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG21	6	0.14
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG22	6	0.14
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG23	6	0.14
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG11	14	0.14
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG12	14	0.14
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG13	14	0.14
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG21	14	0.14
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG22	14	0.14
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG23	14	0.14
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG11	16	0.14
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG12	16	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG13	16	0.14
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG21	16	0.14
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG22	16	0.14
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG23	16	0.14
(1,1061)	1:89:A:ASP:H	1:149:A:GLY:HA3	6	0.14
(1,1045)	1:66:A:THR:HG21	1:147:A:VAL:HG11	16	0.14
(1,1045)	1:66:A:THR:HG21	1:147:A:VAL:HG12	16	0.14
(1,1045)	1:66:A:THR:HG21	1:147:A:VAL:HG13	16	0.14
(1,1045)	1:66:A:THR:HG22	1:147:A:VAL:HG11	16	0.14
(1,1045)	1:66:A:THR:HG22	1:147:A:VAL:HG12	16	0.14
(1,1045)	1:66:A:THR:HG22	1:147:A:VAL:HG13	16	0.14
(1,1045)	1:66:A:THR:HG23	1:147:A:VAL:HG11	16	0.14
(1,1045)	1:66:A:THR:HG23	1:147:A:VAL:HG12	16	0.14
(1,1045)	1:66:A:THR:HG23	1:147:A:VAL:HG13	16	0.14
(1,1022)	1:71:A:ARG:HB2	1:72:A:ILE:HA	19	0.14
(1,1022)	1:71:A:ARG:HB3	1:72:A:ILE:HA	19	0.14
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB1	10	0.14
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB2	10	0.14
(1,1004)	1:72:A:ILE:HD11	1:73:A:ALA:HB3	10	0.14
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB1	10	0.14
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB2	10	0.14
(1,1004)	1:72:A:ILE:HD12	1:73:A:ALA:HB3	10	0.14
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB1	10	0.14
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB2	10	0.14
(1,1004)	1:72:A:ILE:HD13	1:73:A:ALA:HB3	10	0.14
(1,988)	1:66:A:THR:HG21	1:67:A:ALA:H	5	0.14
(1,988)	1:66:A:THR:HG22	1:67:A:ALA:H	5	0.14
(1,988)	1:66:A:THR:HG23	1:67:A:ALA:H	5	0.14
(1,988)	1:66:A:THR:HG21	1:67:A:ALA:H	11	0.14
(1,988)	1:66:A:THR:HG22	1:67:A:ALA:H	11	0.14
(1,988)	1:66:A:THR:HG23	1:67:A:ALA:H	11	0.14
(1,987)	1:146:A:ARG:HG2	1:147:A:VAL:HA	7	0.14
(1,987)	1:146:A:ARG:HG3	1:147:A:VAL:HA	7	0.14
(1,987)	1:146:A:ARG:HG2	1:147:A:VAL:HA	11	0.14
(1,987)	1:146:A:ARG:HG3	1:147:A:VAL:HA	11	0.14
(1,987)	1:146:A:ARG:HG2	1:147:A:VAL:HA	15	0.14
(1,987)	1:146:A:ARG:HG3	1:147:A:VAL:HA	15	0.14
(1,987)	1:146:A:ARG:HG2	1:147:A:VAL:HA	20	0.14
(1,987)	1:146:A:ARG:HG3	1:147:A:VAL:HA	20	0.14
(1,983)	1:80:A:PRO:HA	1:164:A:GLY:HA2	4	0.14
(1,983)	1:80:A:PRO:HA	1:164:A:GLY:HA3	4	0.14
(1,983)	1:80:A:PRO:HA	1:164:A:GLY:HA2	10	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,983)	1:80:A:PRO:HA	1:164:A:GLY:HA3	10	0.14
(1,967)	1:74:A:ASN:HA	1:74:A:ASN:HD22	7	0.14
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG21	10	0.14
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG22	10	0.14
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG23	10	0.14
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG21	14	0.14
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG22	14	0.14
(1,961)	1:42:A:LEU:HA	1:72:A:ILE:HG23	14	0.14
(1,949)	1:102:A:MET:HB2	1:104:A:THR:H	11	0.14
(1,949)	1:102:A:MET:HB3	1:104:A:THR:H	11	0.14
(1,946)	1:136:A:LEU:HB2	1:138:A:GLY:H	7	0.14
(1,946)	1:136:A:LEU:HB3	1:138:A:GLY:H	7	0.14
(1,945)	1:146:A:ARG:H	1:146:A:ARG:HG2	5	0.14
(1,945)	1:146:A:ARG:H	1:146:A:ARG:HG3	5	0.14
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG21	8	0.14
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG22	8	0.14
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG23	8	0.14
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG21	8	0.14
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG22	8	0.14
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG23	8	0.14
(1,867)	1:65:A:ASP:H	1:69:A:LEU:HB2	1	0.14
(1,867)	1:65:A:ASP:H	1:69:A:LEU:HB3	1	0.14
(1,856)	1:73:A:ALA:H	1:77:A:LEU:HB2	3	0.14
(1,856)	1:73:A:ALA:H	1:77:A:LEU:HB3	3	0.14
(1,856)	1:73:A:ALA:H	1:77:A:LEU:HB2	11	0.14
(1,856)	1:73:A:ALA:H	1:77:A:LEU:HB3	11	0.14
(1,856)	1:73:A:ALA:H	1:77:A:LEU:HB2	12	0.14
(1,856)	1:73:A:ALA:H	1:77:A:LEU:HB3	12	0.14
(1,856)	1:73:A:ALA:H	1:77:A:LEU:HB2	18	0.14
(1,856)	1:73:A:ALA:H	1:77:A:LEU:HB3	18	0.14
(1,856)	1:73:A:ALA:H	1:77:A:LEU:HB2	20	0.14
(1,856)	1:73:A:ALA:H	1:77:A:LEU:HB3	20	0.14
(1,843)	1:71:A:ARG:H	1:72:A:ILE:HG21	5	0.14
(1,843)	1:71:A:ARG:H	1:72:A:ILE:HG22	5	0.14
(1,843)	1:71:A:ARG:H	1:72:A:ILE:HG23	5	0.14
(1,831)	1:138:A:GLY:H	1:139:A:ALA:H	18	0.14
(1,822)	1:75:A:GLU:H	1:77:A:LEU:HB2	4	0.14
(1,822)	1:75:A:GLU:H	1:77:A:LEU:HB3	4	0.14
(1,810)	1:76:A:ALA:HB1	1:79:A:GLN:H	10	0.14
(1,810)	1:76:A:ALA:HB2	1:79:A:GLN:H	10	0.14
(1,810)	1:76:A:ALA:HB3	1:79:A:GLN:H	10	0.14
(1,797)	1:51:A:GLU:HB2	1:52:A:GLN:HE22	13	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,797)	1:51:A:GLU:HB3	1:52:A:GLN:HE22	13	0.14
(1,785)	1:67:A:ALA:HA	1:69:A:LEU:H	16	0.14
(1,784)	1:147:A:VAL:H	1:149:A:GLY:H	13	0.14
(1,779)	1:88:A:LEU:HA	1:96:A:ALA:H	11	0.14
(1,733)	1:88:A:LEU:HD11	1:94:A:ARG:HA	3	0.14
(1,733)	1:88:A:LEU:HD12	1:94:A:ARG:HA	3	0.14
(1,733)	1:88:A:LEU:HD13	1:94:A:ARG:HA	3	0.14
(1,733)	1:88:A:LEU:HD11	1:94:A:ARG:HA	20	0.14
(1,733)	1:88:A:LEU:HD12	1:94:A:ARG:HA	20	0.14
(1,733)	1:88:A:LEU:HD13	1:94:A:ARG:HA	20	0.14
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD11	9	0.14
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD12	9	0.14
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD13	9	0.14
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD21	9	0.14
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD22	9	0.14
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD23	9	0.14
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD11	9	0.14
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD12	9	0.14
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD13	9	0.14
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD21	9	0.14
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD22	9	0.14
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD23	9	0.14
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD11	9	0.14
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD12	9	0.14
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD13	9	0.14
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD21	9	0.14
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD22	9	0.14
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD23	9	0.14
(1,699)	1:90:A:ALA:HB1	1:147:A:VAL:HB	11	0.14
(1,699)	1:90:A:ALA:HB2	1:147:A:VAL:HB	11	0.14
(1,699)	1:90:A:ALA:HB3	1:147:A:VAL:HB	11	0.14
(1,660)	1:57:A:ALA:HB1	1:69:A:LEU:HD21	19	0.14
(1,660)	1:57:A:ALA:HB1	1:69:A:LEU:HD22	19	0.14
(1,660)	1:57:A:ALA:HB1	1:69:A:LEU:HD23	19	0.14
(1,660)	1:57:A:ALA:HB2	1:69:A:LEU:HD21	19	0.14
(1,660)	1:57:A:ALA:HB2	1:69:A:LEU:HD22	19	0.14
(1,660)	1:57:A:ALA:HB2	1:69:A:LEU:HD23	19	0.14
(1,660)	1:57:A:ALA:HB3	1:69:A:LEU:HD21	19	0.14
(1,660)	1:57:A:ALA:HB3	1:69:A:LEU:HD22	19	0.14
(1,660)	1:57:A:ALA:HB3	1:69:A:LEU:HD23	19	0.14
(1,657)	1:59:A:THR:HA	1:62:A:ALA:H	11	0.14
(1,632)	1:105:A:VAL:HG11	1:106:A:ALA:HA	4	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,632)	1:105:A:VAL:HG12	1:106:A:ALA:HA	4	0.14
(1,632)	1:105:A:VAL:HG13	1:106:A:ALA:HA	4	0.14
(1,632)	1:105:A:VAL:HG21	1:106:A:ALA:HA	4	0.14
(1,632)	1:105:A:VAL:HG22	1:106:A:ALA:HA	4	0.14
(1,632)	1:105:A:VAL:HG23	1:106:A:ALA:HA	4	0.14
(1,632)	1:105:A:VAL:HG11	1:106:A:ALA:HA	11	0.14
(1,632)	1:105:A:VAL:HG12	1:106:A:ALA:HA	11	0.14
(1,632)	1:105:A:VAL:HG13	1:106:A:ALA:HA	11	0.14
(1,632)	1:105:A:VAL:HG21	1:106:A:ALA:HA	11	0.14
(1,632)	1:105:A:VAL:HG22	1:106:A:ALA:HA	11	0.14
(1,632)	1:105:A:VAL:HG23	1:106:A:ALA:HA	11	0.14
(1,632)	1:105:A:VAL:HG11	1:106:A:ALA:HA	15	0.14
(1,632)	1:105:A:VAL:HG12	1:106:A:ALA:HA	15	0.14
(1,632)	1:105:A:VAL:HG13	1:106:A:ALA:HA	15	0.14
(1,632)	1:105:A:VAL:HG21	1:106:A:ALA:HA	15	0.14
(1,632)	1:105:A:VAL:HG22	1:106:A:ALA:HA	15	0.14
(1,632)	1:105:A:VAL:HG23	1:106:A:ALA:HA	15	0.14
(1,632)	1:105:A:VAL:HG11	1:106:A:ALA:HA	17	0.14
(1,632)	1:105:A:VAL:HG12	1:106:A:ALA:HA	17	0.14
(1,632)	1:105:A:VAL:HG13	1:106:A:ALA:HA	17	0.14
(1,632)	1:105:A:VAL:HG21	1:106:A:ALA:HA	17	0.14
(1,632)	1:105:A:VAL:HG22	1:106:A:ALA:HA	17	0.14
(1,632)	1:105:A:VAL:HG23	1:106:A:ALA:HA	17	0.14
(1,616)	1:38:A:MET:HA	1:42:A:LEU:HB2	4	0.14
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD21	2	0.14
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD22	2	0.14
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD23	2	0.14
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD21	2	0.14
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD22	2	0.14
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD23	2	0.14
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD21	2	0.14
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD22	2	0.14
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD23	2	0.14
(1,594)	1:139:A:ALA:HA	1:145:A:GLU:HG2	13	0.14
(1,594)	1:139:A:ALA:HA	1:145:A:GLU:HG3	13	0.14
(1,593)	1:79:A:GLN:HG3	1:111:A:ALA:HA	2	0.14
(1,587)	1:66:A:THR:HB	1:147:A:VAL:HG21	4	0.14
(1,587)	1:66:A:THR:HB	1:147:A:VAL:HG22	4	0.14
(1,587)	1:66:A:THR:HB	1:147:A:VAL:HG23	4	0.14
(1,568)	1:111:A:ALA:HA	1:114:A:LEU:H	8	0.14
(1,535)	1:110:A:ASP:HB2	1:112:A:SER:H	4	0.14
(1,535)	1:110:A:ASP:HB3	1:112:A:SER:H	4	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,511)	1:146:A:ARG:HE	1:147:A:VAL:HG11	10	0.14
(1,511)	1:146:A:ARG:HE	1:147:A:VAL:HG12	10	0.14
(1,511)	1:146:A:ARG:HE	1:147:A:VAL:HG13	10	0.14
(1,510)	1:148:A:LEU:HG	1:149:A:GLY:H	3	0.14
(1,510)	1:148:A:LEU:HG	1:149:A:GLY:H	20	0.14
(1,509)	1:43:A:ILE:HD11	1:53:A:LEU:H	6	0.14
(1,509)	1:43:A:ILE:HD12	1:53:A:LEU:H	6	0.14
(1,509)	1:43:A:ILE:HD13	1:53:A:LEU:H	6	0.14
(1,506)	1:60:A:ALA:HB1	1:65:A:ASP:HB2	13	0.14
(1,506)	1:60:A:ALA:HB2	1:65:A:ASP:HB2	13	0.14
(1,506)	1:60:A:ALA:HB3	1:65:A:ASP:HB2	13	0.14
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB1	10	0.14
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB2	10	0.14
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB3	10	0.14
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB1	10	0.14
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB2	10	0.14
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB3	10	0.14
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB1	10	0.14
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB2	10	0.14
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB3	10	0.14
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB1	10	0.14
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB2	10	0.14
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB3	10	0.14
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB1	10	0.14
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB2	10	0.14
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB3	10	0.14
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB1	10	0.14
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB2	10	0.14
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB3	10	0.14
(1,470)	1:115:A:SER:H	1:116:A:MET:HB2	9	0.14
(1,470)	1:115:A:SER:H	1:116:A:MET:HB3	9	0.14
(1,461)	1:43:A:ILE:HD11	1:47:A:GLN:H	3	0.14
(1,461)	1:43:A:ILE:HD12	1:47:A:GLN:H	3	0.14
(1,461)	1:43:A:ILE:HD13	1:47:A:GLN:H	3	0.14
(1,447)	1:162:A:LEU:HD11	1:163:A:ARG:HH11	12	0.14
(1,447)	1:162:A:LEU:HD11	1:163:A:ARG:HH12	12	0.14
(1,447)	1:162:A:LEU:HD12	1:163:A:ARG:HH11	12	0.14
(1,447)	1:162:A:LEU:HD12	1:163:A:ARG:HH12	12	0.14
(1,447)	1:162:A:LEU:HD13	1:163:A:ARG:HH11	12	0.14
(1,447)	1:162:A:LEU:HD13	1:163:A:ARG:HH12	12	0.14
(1,447)	1:162:A:LEU:HD21	1:163:A:ARG:HH11	12	0.14
(1,447)	1:162:A:LEU:HD21	1:163:A:ARG:HH12	12	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,447)	1:162:A:LEU:HD22	1:163:A:ARG:HH11	12	0.14
(1,447)	1:162:A:LEU:HD22	1:163:A:ARG:HH12	12	0.14
(1,447)	1:162:A:LEU:HD23	1:163:A:ARG:HH11	12	0.14
(1,447)	1:162:A:LEU:HD23	1:163:A:ARG:HH12	12	0.14
(1,446)	1:41:A:GLN:HG3	1:42:A:LEU:HA	9	0.14
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG21	19	0.14
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG22	19	0.14
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG23	19	0.14
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG21	19	0.14
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG22	19	0.14
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG23	19	0.14
(1,411)	1:74:A:ASN:HD22	1:96:A:ALA:H	9	0.14
(1,406)	1:160:A:THR:HB	1:161:A:LEU:HB2	13	0.14
(1,406)	1:160:A:THR:HB	1:161:A:LEU:HB3	13	0.14
(1,366)	1:70:A:ASN:H	1:72:A:ILE:HG12	15	0.14
(1,366)	1:70:A:ASN:H	1:72:A:ILE:HG13	15	0.14
(1,366)	1:70:A:ASN:H	1:72:A:ILE:HG12	19	0.14
(1,366)	1:70:A:ASN:H	1:72:A:ILE:HG13	19	0.14
(1,332)	1:47:A:GLN:H	1:53:A:LEU:H	10	0.14
(1,321)	1:65:A:ASP:HB3	1:66:A:THR:H	20	0.14
(1,319)	1:66:A:THR:HG21	1:71:A:ARG:H	8	0.14
(1,319)	1:66:A:THR:HG22	1:71:A:ARG:H	8	0.14
(1,319)	1:66:A:THR:HG23	1:71:A:ARG:H	8	0.14
(1,319)	1:66:A:THR:HG21	1:71:A:ARG:H	9	0.14
(1,319)	1:66:A:THR:HG22	1:71:A:ARG:H	9	0.14
(1,319)	1:66:A:THR:HG23	1:71:A:ARG:H	9	0.14
(1,319)	1:66:A:THR:HG21	1:71:A:ARG:H	19	0.14
(1,319)	1:66:A:THR:HG22	1:71:A:ARG:H	19	0.14
(1,319)	1:66:A:THR:HG23	1:71:A:ARG:H	19	0.14
(1,310)	1:51:A:GLU:HB2	1:52:A:GLN:H	13	0.14
(1,310)	1:51:A:GLU:HB3	1:52:A:GLN:H	13	0.14
(1,309)	1:146:A:ARG:HD2	1:147:A:VAL:H	10	0.14
(1,309)	1:146:A:ARG:HD3	1:147:A:VAL:H	10	0.14
(1,309)	1:146:A:ARG:HD2	1:147:A:VAL:H	13	0.14
(1,309)	1:146:A:ARG:HD3	1:147:A:VAL:H	13	0.14
(1,304)	1:83:A:ARG:HA	1:84:A:ALA:HB1	5	0.14
(1,304)	1:83:A:ARG:HA	1:84:A:ALA:HB2	5	0.14
(1,304)	1:83:A:ARG:HA	1:84:A:ALA:HB3	5	0.14
(1,304)	1:83:A:ARG:HA	1:84:A:ALA:HB1	6	0.14
(1,304)	1:83:A:ARG:HA	1:84:A:ALA:HB2	6	0.14
(1,304)	1:83:A:ARG:HA	1:84:A:ALA:HB3	6	0.14
(1,302)	1:57:A:ALA:H	1:158:A:HIS:HD2	16	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,300)	1:83:A:ARG:HA	1:83:A:ARG:HD2	1	0.14
(1,300)	1:83:A:ARG:HA	1:83:A:ARG:HD3	1	0.14
(1,291)	1:97:A:HIS:H	1:97:A:HIS:HD2	13	0.14
(1,286)	1:85:A:VAL:H	1:98:A:ALA:HB1	8	0.14
(1,286)	1:85:A:VAL:H	1:98:A:ALA:HB2	8	0.14
(1,286)	1:85:A:VAL:H	1:98:A:ALA:HB3	8	0.14
(1,281)	1:115:A:SER:HA	1:116:A:MET:HA	3	0.14
(1,254)	1:82:A:VAL:HG11	1:154:A:GLU:HA	3	0.14
(1,254)	1:82:A:VAL:HG12	1:154:A:GLU:HA	3	0.14
(1,254)	1:82:A:VAL:HG13	1:154:A:GLU:HA	3	0.14
(1,254)	1:82:A:VAL:HG21	1:154:A:GLU:HA	3	0.14
(1,254)	1:82:A:VAL:HG22	1:154:A:GLU:HA	3	0.14
(1,254)	1:82:A:VAL:HG23	1:154:A:GLU:HA	3	0.14
(1,235)	1:132:A:ARG:H	1:132:A:ARG:HD2	13	0.14
(1,235)	1:132:A:ARG:H	1:132:A:ARG:HD3	13	0.14
(1,234)	1:66:A:THR:HB	1:87:A:PHE:HB2	4	0.14
(1,230)	1:123:A:THR:H	1:123:A:THR:HG21	5	0.14
(1,230)	1:123:A:THR:H	1:123:A:THR:HG22	5	0.14
(1,230)	1:123:A:THR:H	1:123:A:THR:HG23	5	0.14
(1,192)	1:40:A:ALA:H	1:41:A:GLN:HG2	2	0.14
(1,192)	1:40:A:ALA:H	1:41:A:GLN:HG2	14	0.14
(1,160)	1:97:A:HIS:HB3	1:150:A:TRP:HZ3	1	0.14
(1,156)	1:88:A:LEU:HG	1:89:A:ASP:HB2	11	0.14
(1,156)	1:88:A:LEU:HG	1:89:A:ASP:HB3	11	0.14
(1,156)	1:88:A:LEU:HG	1:89:A:ASP:HB2	12	0.14
(1,156)	1:88:A:LEU:HG	1:89:A:ASP:HB3	12	0.14
(1,152)	1:49:A:ILE:HG21	1:50:A:ALA:HA	9	0.14
(1,152)	1:49:A:ILE:HG22	1:50:A:ALA:HA	9	0.14
(1,152)	1:49:A:ILE:HG23	1:50:A:ALA:HA	9	0.14
(1,148)	1:75:A:GLU:HG2	1:76:A:ALA:HB1	8	0.14
(1,148)	1:75:A:GLU:HG2	1:76:A:ALA:HB2	8	0.14
(1,148)	1:75:A:GLU:HG2	1:76:A:ALA:HB3	8	0.14
(1,148)	1:75:A:GLU:HG3	1:76:A:ALA:HB1	8	0.14
(1,148)	1:75:A:GLU:HG3	1:76:A:ALA:HB2	8	0.14
(1,148)	1:75:A:GLU:HG3	1:76:A:ALA:HB3	8	0.14
(1,134)	1:103:A:LEU:H	1:105:A:VAL:H	15	0.14
(1,116)	1:90:A:ALA:H	1:93:A:GLU:H	9	0.14
(1,116)	1:90:A:ALA:H	1:93:A:GLU:H	15	0.14
(1,102)	1:51:A:GLU:H	1:52:A:GLN:HE21	4	0.14
(1,98)	1:79:A:GLN:H	1:81:A:ASP:H	6	0.14
(1,97)	1:93:A:GLU:HB2	1:124:A:HIS:H	2	0.14
(1,97)	1:93:A:GLU:HB3	1:124:A:HIS:H	2	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,97)	1:93:A:GLU:HB2	1:124:A:HIS:H	4	0.14
(1,97)	1:93:A:GLU:HB3	1:124:A:HIS:H	4	0.14
(1,97)	1:93:A:GLU:HB2	1:124:A:HIS:H	7	0.14
(1,97)	1:93:A:GLU:HB3	1:124:A:HIS:H	7	0.14
(1,97)	1:93:A:GLU:HB2	1:124:A:HIS:H	20	0.14
(1,97)	1:93:A:GLU:HB3	1:124:A:HIS:H	20	0.14
(1,85)	1:76:A:ALA:HB1	1:79:A:GLN:HE21	13	0.14
(1,85)	1:76:A:ALA:HB2	1:79:A:GLN:HE21	13	0.14
(1,85)	1:76:A:ALA:HB3	1:79:A:GLN:HE21	13	0.14
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG21	4	0.14
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG22	4	0.14
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG23	4	0.14
(1,77)	1:88:A:LEU:HD11	1:124:A:HIS:H	10	0.14
(1,77)	1:88:A:LEU:HD12	1:124:A:HIS:H	10	0.14
(1,77)	1:88:A:LEU:HD13	1:124:A:HIS:H	10	0.14
(1,66)	1:152:A:GLU:HA	1:154:A:GLU:H	4	0.14
(1,52)	1:139:A:ALA:H	1:150:A:TRP:HB3	4	0.14
(1,31)	1:86:A:THR:HB	1:97:A:HIS:HB3	2	0.14
(1,31)	1:86:A:THR:HB	1:97:A:HIS:HB3	15	0.14
(1,30)	1:97:A:HIS:H	1:98:A:ALA:HA	4	0.14
(1,30)	1:97:A:HIS:H	1:98:A:ALA:HA	15	0.14
(1,16)	1:56:A:LEU:HD11	1:72:A:ILE:H	1	0.14
(1,16)	1:56:A:LEU:HD12	1:72:A:ILE:H	1	0.14
(1,16)	1:56:A:LEU:HD13	1:72:A:ILE:H	1	0.14
(1,16)	1:56:A:LEU:HD21	1:72:A:ILE:H	1	0.14
(1,16)	1:56:A:LEU:HD22	1:72:A:ILE:H	1	0.14
(1,16)	1:56:A:LEU:HD23	1:72:A:ILE:H	1	0.14
(1,3)	1:68:A:VAL:H	1:69:A:LEU:HD21	10	0.14
(1,3)	1:68:A:VAL:H	1:69:A:LEU:HD22	10	0.14
(1,3)	1:68:A:VAL:H	1:69:A:LEU:HD23	10	0.14
(1,1172)	1:95:A:LEU:HD11	1:96:A:ALA:H	3	0.13
(1,1172)	1:95:A:LEU:HD12	1:96:A:ALA:H	3	0.13
(1,1172)	1:95:A:LEU:HD13	1:96:A:ALA:H	3	0.13
(1,1172)	1:95:A:LEU:HD21	1:96:A:ALA:H	3	0.13
(1,1172)	1:95:A:LEU:HD22	1:96:A:ALA:H	3	0.13
(1,1172)	1:95:A:LEU:HD23	1:96:A:ALA:H	3	0.13
(1,1172)	1:95:A:LEU:HD11	1:96:A:ALA:H	14	0.13
(1,1172)	1:95:A:LEU:HD12	1:96:A:ALA:H	14	0.13
(1,1172)	1:95:A:LEU:HD13	1:96:A:ALA:H	14	0.13
(1,1172)	1:95:A:LEU:HD21	1:96:A:ALA:H	14	0.13
(1,1172)	1:95:A:LEU:HD22	1:96:A:ALA:H	14	0.13
(1,1172)	1:95:A:LEU:HD23	1:96:A:ALA:H	14	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD11	6	0.13
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD12	6	0.13
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD13	6	0.13
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD21	6	0.13
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD22	6	0.13
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD23	6	0.13
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD11	6	0.13
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD12	6	0.13
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD13	6	0.13
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD21	6	0.13
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD22	6	0.13
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD23	6	0.13
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD11	17	0.13
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD12	17	0.13
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD13	17	0.13
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD21	17	0.13
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD22	17	0.13
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD23	17	0.13
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD11	1	0.13
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD12	1	0.13
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD13	1	0.13
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD21	1	0.13
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD22	1	0.13
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD23	1	0.13
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD11	1	0.13
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD12	1	0.13
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD13	1	0.13
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD21	1	0.13
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD22	1	0.13
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD23	1	0.13
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD11	1	0.13
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD12	1	0.13
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD13	1	0.13
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD21	1	0.13
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD22	1	0.13
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD23	1	0.13
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD11	1	0.13
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD12	1	0.13
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD13	1	0.13
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD21	1	0.13
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD22	1	0.13
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD23	1	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD11	1	0.13
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD12	1	0.13
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD13	1	0.13
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD21	1	0.13
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD22	1	0.13
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD23	1	0.13
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD11	1	0.13
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD12	1	0.13
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD13	1	0.13
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD21	1	0.13
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD22	1	0.13
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD23	1	0.13
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD11	15	0.13
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD12	15	0.13
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD13	15	0.13
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD21	15	0.13
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD22	15	0.13
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD23	15	0.13
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD11	15	0.13
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD12	15	0.13
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD13	15	0.13
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD21	15	0.13
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD22	15	0.13
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD23	15	0.13
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD11	15	0.13
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD12	15	0.13
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD13	15	0.13
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD21	15	0.13
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD22	15	0.13
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD23	15	0.13
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD11	15	0.13
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD12	15	0.13
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD13	15	0.13
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD21	15	0.13
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD22	15	0.13
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD23	15	0.13
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD11	15	0.13
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD12	15	0.13
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD13	15	0.13
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD21	15	0.13
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD22	15	0.13
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD23	15	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD11	15	0.13
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD12	15	0.13
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD13	15	0.13
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD21	15	0.13
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD22	15	0.13
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD23	15	0.13
(1,1120)	1:77:A:LEU:HD11	1:98:A:ALA:H	17	0.13
(1,1120)	1:77:A:LEU:HD12	1:98:A:ALA:H	17	0.13
(1,1120)	1:77:A:LEU:HD13	1:98:A:ALA:H	17	0.13
(1,1120)	1:77:A:LEU:HD21	1:98:A:ALA:H	17	0.13
(1,1120)	1:77:A:LEU:HD22	1:98:A:ALA:H	17	0.13
(1,1120)	1:77:A:LEU:HD23	1:98:A:ALA:H	17	0.13
(1,1101)	1:72:A:ILE:H	1:77:A:LEU:HD11	4	0.13
(1,1101)	1:72:A:ILE:H	1:77:A:LEU:HD12	4	0.13
(1,1101)	1:72:A:ILE:H	1:77:A:LEU:HD13	4	0.13
(1,1101)	1:72:A:ILE:H	1:77:A:LEU:HD21	4	0.13
(1,1101)	1:72:A:ILE:H	1:77:A:LEU:HD22	4	0.13
(1,1101)	1:72:A:ILE:H	1:77:A:LEU:HD23	4	0.13
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG11	5	0.13
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG12	5	0.13
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG13	5	0.13
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG21	5	0.13
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG22	5	0.13
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG23	5	0.13
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG11	7	0.13
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG12	7	0.13
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG13	7	0.13
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG21	7	0.13
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG22	7	0.13
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG23	7	0.13
(1,1054)	1:61:A:LEU:HB2	1:65:A:ASP:H	20	0.13
(1,1054)	1:61:A:LEU:HB3	1:65:A:ASP:H	20	0.13
(1,1031)	1:61:A:LEU:HB2	1:155:A:LEU:HD11	16	0.13
(1,1031)	1:61:A:LEU:HB2	1:155:A:LEU:HD12	16	0.13
(1,1031)	1:61:A:LEU:HB2	1:155:A:LEU:HD13	16	0.13
(1,1031)	1:61:A:LEU:HB3	1:155:A:LEU:HD11	16	0.13
(1,1031)	1:61:A:LEU:HB3	1:155:A:LEU:HD12	16	0.13
(1,1031)	1:61:A:LEU:HB3	1:155:A:LEU:HD13	16	0.13
(1,1022)	1:71:A:ARG:HB2	1:72:A:ILE:HA	6	0.13
(1,1022)	1:71:A:ARG:HB3	1:72:A:ILE:HA	6	0.13
(1,1020)	1:45:A:ARG:HA	1:45:A:ARG:HD2	9	0.13
(1,1020)	1:45:A:ARG:HA	1:45:A:ARG:HD3	9	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1017)	1:64:A:LYS:HD2	1:141:A:GLU:HB2	6	0.13
(1,1017)	1:64:A:LYS:HD2	1:141:A:GLU:HB3	6	0.13
(1,1017)	1:64:A:LYS:HD3	1:141:A:GLU:HB2	6	0.13
(1,1017)	1:64:A:LYS:HD3	1:141:A:GLU:HB3	6	0.13
(1,1017)	1:64:A:LYS:HD2	1:141:A:GLU:HB2	10	0.13
(1,1017)	1:64:A:LYS:HD2	1:141:A:GLU:HB3	10	0.13
(1,1017)	1:64:A:LYS:HD3	1:141:A:GLU:HB2	10	0.13
(1,1017)	1:64:A:LYS:HD3	1:141:A:GLU:HB3	10	0.13
(1,1009)	1:80:A:PRO:HB2	1:164:A:GLY:HA2	20	0.13
(1,1009)	1:80:A:PRO:HB2	1:164:A:GLY:HA3	20	0.13
(1,1009)	1:80:A:PRO:HB3	1:164:A:GLY:HA2	20	0.13
(1,1009)	1:80:A:PRO:HB3	1:164:A:GLY:HA3	20	0.13
(1,988)	1:66:A:THR:HG21	1:67:A:ALA:H	15	0.13
(1,988)	1:66:A:THR:HG22	1:67:A:ALA:H	15	0.13
(1,988)	1:66:A:THR:HG23	1:67:A:ALA:H	15	0.13
(1,987)	1:146:A:ARG:HG2	1:147:A:VAL:HA	16	0.13
(1,987)	1:146:A:ARG:HG3	1:147:A:VAL:HA	16	0.13
(1,973)	1:119:A:GLU:HB2	1:122:A:THR:H	15	0.13
(1,973)	1:119:A:GLU:HB3	1:122:A:THR:H	15	0.13
(1,970)	1:138:A:GLY:HA3	1:140:A:THR:HG21	5	0.13
(1,970)	1:138:A:GLY:HA3	1:140:A:THR:HG22	5	0.13
(1,970)	1:138:A:GLY:HA3	1:140:A:THR:HG23	5	0.13
(1,967)	1:74:A:ASN:HA	1:74:A:ASN:HD22	10	0.13
(1,949)	1:102:A:MET:HB2	1:104:A:THR:H	15	0.13
(1,949)	1:102:A:MET:HB3	1:104:A:THR:H	15	0.13
(1,945)	1:146:A:ARG:H	1:146:A:ARG:HG2	1	0.13
(1,945)	1:146:A:ARG:H	1:146:A:ARG:HG3	1	0.13
(1,945)	1:146:A:ARG:H	1:146:A:ARG:HG2	10	0.13
(1,945)	1:146:A:ARG:H	1:146:A:ARG:HG3	10	0.13
(1,945)	1:146:A:ARG:H	1:146:A:ARG:HG2	11	0.13
(1,945)	1:146:A:ARG:H	1:146:A:ARG:HG3	11	0.13
(1,945)	1:146:A:ARG:H	1:146:A:ARG:HG2	19	0.13
(1,945)	1:146:A:ARG:H	1:146:A:ARG:HG3	19	0.13
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG21	2	0.13
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG22	2	0.13
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG23	2	0.13
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG21	2	0.13
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG22	2	0.13
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG23	2	0.13
(1,882)	1:130:A:LEU:HD11	1:131:A:GLY:H	12	0.13
(1,882)	1:130:A:LEU:HD12	1:131:A:GLY:H	12	0.13
(1,882)	1:130:A:LEU:HD13	1:131:A:GLY:H	12	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,882)	1:130:A:LEU:HD21	1:131:A:GLY:H	12	0.13
(1,882)	1:130:A:LEU:HD22	1:131:A:GLY:H	12	0.13
(1,882)	1:130:A:LEU:HD23	1:131:A:GLY:H	12	0.13
(1,876)	1:64:A:LYS:H	1:64:A:LYS:HD2	11	0.13
(1,876)	1:64:A:LYS:H	1:64:A:LYS:HD3	11	0.13
(1,867)	1:65:A:ASP:H	1:69:A:LEU:HB2	5	0.13
(1,867)	1:65:A:ASP:H	1:69:A:LEU:HB3	5	0.13
(1,867)	1:65:A:ASP:H	1:69:A:LEU:HB2	7	0.13
(1,867)	1:65:A:ASP:H	1:69:A:LEU:HB3	7	0.13
(1,856)	1:73:A:ALA:H	1:77:A:LEU:HB2	1	0.13
(1,856)	1:73:A:ALA:H	1:77:A:LEU:HB3	1	0.13
(1,856)	1:73:A:ALA:H	1:77:A:LEU:HB2	7	0.13
(1,856)	1:73:A:ALA:H	1:77:A:LEU:HB3	7	0.13
(1,836)	1:136:A:LEU:HG	1:137:A:SER:H	3	0.13
(1,836)	1:136:A:LEU:HG	1:137:A:SER:H	11	0.13
(1,834)	1:45:A:ARG:HG2	1:46:A:GLY:H	17	0.13
(1,834)	1:45:A:ARG:HG3	1:46:A:GLY:H	17	0.13
(1,827)	1:91:A:ARG:H	1:92:A:GLN:HA	7	0.13
(1,827)	1:91:A:ARG:H	1:92:A:GLN:HA	14	0.13
(1,827)	1:91:A:ARG:H	1:92:A:GLN:HA	16	0.13
(1,801)	1:84:A:ALA:HA	1:102:A:MET:H	20	0.13
(1,785)	1:67:A:ALA:HA	1:69:A:LEU:H	14	0.13
(1,784)	1:147:A:VAL:H	1:149:A:GLY:H	10	0.13
(1,779)	1:88:A:LEU:HA	1:96:A:ALA:H	18	0.13
(1,769)	1:68:A:VAL:H	1:72:A:ILE:HD11	5	0.13
(1,769)	1:68:A:VAL:H	1:72:A:ILE:HD12	5	0.13
(1,769)	1:68:A:VAL:H	1:72:A:ILE:HD13	5	0.13
(1,769)	1:68:A:VAL:H	1:72:A:ILE:HD11	7	0.13
(1,769)	1:68:A:VAL:H	1:72:A:ILE:HD12	7	0.13
(1,769)	1:68:A:VAL:H	1:72:A:ILE:HD13	7	0.13
(1,766)	1:59:A:THR:HA	1:62:A:ALA:HB1	5	0.13
(1,766)	1:59:A:THR:HA	1:62:A:ALA:HB2	5	0.13
(1,766)	1:59:A:THR:HA	1:62:A:ALA:HB3	5	0.13
(1,761)	1:148:A:LEU:HA	1:148:A:LEU:HG	17	0.13
(1,752)	1:140:A:THR:HG21	1:141:A:GLU:H	16	0.13
(1,752)	1:140:A:THR:HG22	1:141:A:GLU:H	16	0.13
(1,752)	1:140:A:THR:HG23	1:141:A:GLU:H	16	0.13
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB1	17	0.13
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB2	17	0.13
(1,751)	1:66:A:THR:HB	1:139:A:ALA:HB3	17	0.13
(1,737)	1:47:A:GLN:HE21	1:52:A:GLN:HE21	5	0.13
(1,728)	1:61:A:LEU:HA	1:61:A:LEU:HD11	4	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,728)	1:61:A:LEU:HA	1:61:A:LEU:HD12	4	0.13
(1,728)	1:61:A:LEU:HA	1:61:A:LEU:HD13	4	0.13
(1,722)	1:56:A:LEU:HG	1:57:A:ALA:HB1	1	0.13
(1,722)	1:56:A:LEU:HG	1:57:A:ALA:HB2	1	0.13
(1,722)	1:56:A:LEU:HG	1:57:A:ALA:HB3	1	0.13
(1,657)	1:59:A:THR:HA	1:62:A:ALA:H	4	0.13
(1,635)	1:82:A:VAL:HB	1:83:A:ARG:HA	2	0.13
(1,616)	1:38:A:MET:HA	1:42:A:LEU:HB2	16	0.13
(1,616)	1:38:A:MET:HA	1:42:A:LEU:HB2	17	0.13
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD21	4	0.13
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD22	4	0.13
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD23	4	0.13
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD21	4	0.13
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD22	4	0.13
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD23	4	0.13
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD21	4	0.13
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD22	4	0.13
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD23	4	0.13
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD21	5	0.13
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD22	5	0.13
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD23	5	0.13
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD21	5	0.13
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD22	5	0.13
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD23	5	0.13
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD21	5	0.13
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD22	5	0.13
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD23	5	0.13
(1,562)	1:70:A:ASN:HD22	1:71:A:ARG:HG2	10	0.13
(1,562)	1:70:A:ASN:HD22	1:71:A:ARG:HG3	10	0.13
(1,561)	1:162:A:LEU:HA	1:162:A:LEU:HD11	11	0.13
(1,561)	1:162:A:LEU:HA	1:162:A:LEU:HD12	11	0.13
(1,561)	1:162:A:LEU:HA	1:162:A:LEU:HD13	11	0.13
(1,561)	1:162:A:LEU:HA	1:162:A:LEU:HD21	11	0.13
(1,561)	1:162:A:LEU:HA	1:162:A:LEU:HD22	11	0.13
(1,561)	1:162:A:LEU:HA	1:162:A:LEU:HD23	11	0.13
(1,547)	1:61:A:LEU:HD21	1:64:A:LYS:HA	4	0.13
(1,547)	1:61:A:LEU:HD22	1:64:A:LYS:HA	4	0.13
(1,547)	1:61:A:LEU:HD23	1:64:A:LYS:HA	4	0.13
(1,506)	1:60:A:ALA:HB1	1:65:A:ASP:HB2	20	0.13
(1,506)	1:60:A:ALA:HB2	1:65:A:ASP:HB2	20	0.13
(1,506)	1:60:A:ALA:HB3	1:65:A:ASP:HB2	20	0.13
(1,500)	1:43:A:ILE:HG21	1:47:A:GLN:H	2	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,500)	1:43:A:ILE:HG22	1:47:A:GLN:H	2	0.13
(1,500)	1:43:A:ILE:HG23	1:47:A:GLN:H	2	0.13
(1,486)	1:72:A:ILE:H	1:72:A:ILE:HD11	8	0.13
(1,486)	1:72:A:ILE:H	1:72:A:ILE:HD12	8	0.13
(1,486)	1:72:A:ILE:H	1:72:A:ILE:HD13	8	0.13
(1,486)	1:72:A:ILE:H	1:72:A:ILE:HD11	16	0.13
(1,486)	1:72:A:ILE:H	1:72:A:ILE:HD12	16	0.13
(1,486)	1:72:A:ILE:H	1:72:A:ILE:HD13	16	0.13
(1,485)	1:44:A:GLU:HG2	1:45:A:ARG:HA	14	0.13
(1,485)	1:44:A:GLU:HG3	1:45:A:ARG:HA	14	0.13
(1,485)	1:44:A:GLU:HG2	1:45:A:ARG:HA	20	0.13
(1,485)	1:44:A:GLU:HG3	1:45:A:ARG:HA	20	0.13
(1,481)	1:43:A:ILE:HA	1:45:A:ARG:HB2	8	0.13
(1,481)	1:43:A:ILE:HA	1:45:A:ARG:HB3	8	0.13
(1,448)	1:86:A:THR:HG21	1:150:A:TRP:HE3	6	0.13
(1,448)	1:86:A:THR:HG22	1:150:A:TRP:HE3	6	0.13
(1,448)	1:86:A:THR:HG23	1:150:A:TRP:HE3	6	0.13
(1,448)	1:86:A:THR:HG21	1:150:A:TRP:HE3	9	0.13
(1,448)	1:86:A:THR:HG22	1:150:A:TRP:HE3	9	0.13
(1,448)	1:86:A:THR:HG23	1:150:A:TRP:HE3	9	0.13
(1,448)	1:86:A:THR:HG21	1:150:A:TRP:HE3	15	0.13
(1,448)	1:86:A:THR:HG22	1:150:A:TRP:HE3	15	0.13
(1,448)	1:86:A:THR:HG23	1:150:A:TRP:HE3	15	0.13
(1,446)	1:41:A:GLN:HG3	1:42:A:LEU:HA	20	0.13
(1,440)	1:65:A:ASP:HA	1:147:A:VAL:HG11	10	0.13
(1,440)	1:65:A:ASP:HA	1:147:A:VAL:HG12	10	0.13
(1,440)	1:65:A:ASP:HA	1:147:A:VAL:HG13	10	0.13
(1,436)	1:90:A:ALA:HB1	1:148:A:LEU:H	18	0.13
(1,436)	1:90:A:ALA:HB2	1:148:A:LEU:H	18	0.13
(1,436)	1:90:A:ALA:HB3	1:148:A:LEU:H	18	0.13
(1,432)	1:131:A:GLY:H	1:132:A:ARG:HG2	10	0.13
(1,432)	1:131:A:GLY:H	1:132:A:ARG:HG3	10	0.13
(1,404)	1:50:A:ALA:H	1:51:A:GLU:HB2	4	0.13
(1,404)	1:50:A:ALA:H	1:51:A:GLU:HB3	4	0.13
(1,404)	1:50:A:ALA:H	1:51:A:GLU:HB2	9	0.13
(1,404)	1:50:A:ALA:H	1:51:A:GLU:HB3	9	0.13
(1,371)	1:47:A:GLN:H	1:47:A:GLN:HE21	10	0.13
(1,369)	1:44:A:GLU:HG2	1:45:A:ARG:H	2	0.13
(1,369)	1:44:A:GLU:HG3	1:45:A:ARG:H	2	0.13
(1,331)	1:66:A:THR:H	1:147:A:VAL:HG21	1	0.13
(1,331)	1:66:A:THR:H	1:147:A:VAL:HG22	1	0.13
(1,331)	1:66:A:THR:H	1:147:A:VAL:HG23	1	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,321)	1:65:A:ASP:HB3	1:66:A:THR:H	2	0.13
(1,310)	1:51:A:GLU:HB2	1:52:A:GLN:H	15	0.13
(1,310)	1:51:A:GLU:HB3	1:52:A:GLN:H	15	0.13
(1,309)	1:146:A:ARG:HD2	1:147:A:VAL:H	1	0.13
(1,309)	1:146:A:ARG:HD3	1:147:A:VAL:H	1	0.13
(1,305)	1:93:A:GLU:HA	1:94:A:ARG:HD2	14	0.13
(1,305)	1:93:A:GLU:HA	1:94:A:ARG:HD3	14	0.13
(1,304)	1:83:A:ARG:HA	1:84:A:ALA:HB1	15	0.13
(1,304)	1:83:A:ARG:HA	1:84:A:ALA:HB2	15	0.13
(1,304)	1:83:A:ARG:HA	1:84:A:ALA:HB3	15	0.13
(1,272)	1:94:A:ARG:H	1:124:A:HIS:HA	7	0.13
(1,271)	1:94:A:ARG:H	1:94:A:ARG:HG2	5	0.13
(1,271)	1:94:A:ARG:H	1:94:A:ARG:HG3	5	0.13
(1,270)	1:82:A:VAL:H	1:155:A:LEU:HB2	14	0.13
(1,270)	1:82:A:VAL:H	1:155:A:LEU:HB3	14	0.13
(1,257)	1:104:A:THR:H	1:106:A:ALA:H	18	0.13
(1,247)	1:74:A:ASN:H	1:75:A:GLU:HG2	10	0.13
(1,247)	1:74:A:ASN:H	1:75:A:GLU:HG3	10	0.13
(1,235)	1:132:A:ARG:H	1:132:A:ARG:HD2	1	0.13
(1,235)	1:132:A:ARG:H	1:132:A:ARG:HD3	1	0.13
(1,214)	1:98:A:ALA:H	1:103:A:LEU:H	7	0.13
(1,207)	1:82:A:VAL:HG11	1:98:A:ALA:H	20	0.13
(1,207)	1:82:A:VAL:HG12	1:98:A:ALA:H	20	0.13
(1,207)	1:82:A:VAL:HG13	1:98:A:ALA:H	20	0.13
(1,207)	1:82:A:VAL:HG21	1:98:A:ALA:H	20	0.13
(1,207)	1:82:A:VAL:HG22	1:98:A:ALA:H	20	0.13
(1,207)	1:82:A:VAL:HG23	1:98:A:ALA:H	20	0.13
(1,196)	1:93:A:GLU:HA	1:94:A:ARG:HB2	18	0.13
(1,196)	1:93:A:GLU:HA	1:94:A:ARG:HB3	18	0.13
(1,182)	1:69:A:LEU:HD11	1:70:A:ASN:H	4	0.13
(1,182)	1:69:A:LEU:HD12	1:70:A:ASN:H	4	0.13
(1,182)	1:69:A:LEU:HD13	1:70:A:ASN:H	4	0.13
(1,182)	1:69:A:LEU:HD11	1:70:A:ASN:H	15	0.13
(1,182)	1:69:A:LEU:HD12	1:70:A:ASN:H	15	0.13
(1,182)	1:69:A:LEU:HD13	1:70:A:ASN:H	15	0.13
(1,156)	1:88:A:LEU:HG	1:89:A:ASP:HB2	17	0.13
(1,156)	1:88:A:LEU:HG	1:89:A:ASP:HB3	17	0.13
(1,156)	1:88:A:LEU:HG	1:89:A:ASP:HB2	18	0.13
(1,156)	1:88:A:LEU:HG	1:89:A:ASP:HB3	18	0.13
(1,152)	1:49:A:ILE:HG21	1:50:A:ALA:HA	13	0.13
(1,152)	1:49:A:ILE:HG22	1:50:A:ALA:HA	13	0.13
(1,152)	1:49:A:ILE:HG23	1:50:A:ALA:HA	13	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,148)	1:75:A:GLU:HG2	1:76:A:ALA:HB1	12	0.13
(1,148)	1:75:A:GLU:HG2	1:76:A:ALA:HB2	12	0.13
(1,148)	1:75:A:GLU:HG2	1:76:A:ALA:HB3	12	0.13
(1,148)	1:75:A:GLU:HG3	1:76:A:ALA:HB1	12	0.13
(1,148)	1:75:A:GLU:HG3	1:76:A:ALA:HB2	12	0.13
(1,148)	1:75:A:GLU:HG3	1:76:A:ALA:HB3	12	0.13
(1,148)	1:75:A:GLU:HG2	1:76:A:ALA:HB1	15	0.13
(1,148)	1:75:A:GLU:HG2	1:76:A:ALA:HB2	15	0.13
(1,148)	1:75:A:GLU:HG2	1:76:A:ALA:HB3	15	0.13
(1,148)	1:75:A:GLU:HG3	1:76:A:ALA:HB1	15	0.13
(1,148)	1:75:A:GLU:HG3	1:76:A:ALA:HB2	15	0.13
(1,148)	1:75:A:GLU:HG3	1:76:A:ALA:HB3	15	0.13
(1,148)	1:75:A:GLU:HG2	1:76:A:ALA:HB1	19	0.13
(1,148)	1:75:A:GLU:HG2	1:76:A:ALA:HB2	19	0.13
(1,148)	1:75:A:GLU:HG2	1:76:A:ALA:HB3	19	0.13
(1,148)	1:75:A:GLU:HG3	1:76:A:ALA:HB1	19	0.13
(1,148)	1:75:A:GLU:HG3	1:76:A:ALA:HB2	19	0.13
(1,148)	1:75:A:GLU:HG3	1:76:A:ALA:HB3	19	0.13
(1,145)	1:90:A:ALA:HA	1:149:A:GLY:H	3	0.13
(1,136)	1:69:A:LEU:HD21	1:70:A:ASN:H	1	0.13
(1,136)	1:69:A:LEU:HD22	1:70:A:ASN:H	1	0.13
(1,136)	1:69:A:LEU:HD23	1:70:A:ASN:H	1	0.13
(1,134)	1:103:A:LEU:H	1:105:A:VAL:H	2	0.13
(1,134)	1:103:A:LEU:H	1:105:A:VAL:H	5	0.13
(1,126)	1:68:A:VAL:HG21	1:70:A:ASN:H	7	0.13
(1,126)	1:68:A:VAL:HG22	1:70:A:ASN:H	7	0.13
(1,126)	1:68:A:VAL:HG23	1:70:A:ASN:H	7	0.13
(1,97)	1:93:A:GLU:HB2	1:124:A:HIS:H	19	0.13
(1,97)	1:93:A:GLU:HB3	1:124:A:HIS:H	19	0.13
(1,95)	1:81:A:ASP:HB2	1:163:A:ARG:HH11	18	0.13
(1,95)	1:81:A:ASP:HB2	1:163:A:ARG:HH12	18	0.13
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG21	18	0.13
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG22	18	0.13
(1,84)	1:87:A:PHE:HB2	1:147:A:VAL:HG23	18	0.13
(1,70)	1:45:A:ARG:HD2	1:47:A:GLN:H	1	0.13
(1,70)	1:45:A:ARG:HD3	1:47:A:GLN:H	1	0.13
(1,70)	1:45:A:ARG:HD2	1:47:A:GLN:H	19	0.13
(1,70)	1:45:A:ARG:HD3	1:47:A:GLN:H	19	0.13
(1,66)	1:152:A:GLU:HA	1:154:A:GLU:H	14	0.13
(1,65)	1:147:A:VAL:HG21	1:149:A:GLY:HA2	1	0.13
(1,65)	1:147:A:VAL:HG22	1:149:A:GLY:HA2	1	0.13
(1,65)	1:147:A:VAL:HG23	1:149:A:GLY:HA2	1	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,65)	1:147:A:VAL:HG21	1:149:A:GLY:HA3	1	0.13
(1,65)	1:147:A:VAL:HG22	1:149:A:GLY:HA3	1	0.13
(1,65)	1:147:A:VAL:HG23	1:149:A:GLY:HA3	1	0.13
(1,65)	1:147:A:VAL:HG21	1:149:A:GLY:HA2	10	0.13
(1,65)	1:147:A:VAL:HG22	1:149:A:GLY:HA2	10	0.13
(1,65)	1:147:A:VAL:HG23	1:149:A:GLY:HA2	10	0.13
(1,65)	1:147:A:VAL:HG21	1:149:A:GLY:HA3	10	0.13
(1,65)	1:147:A:VAL:HG22	1:149:A:GLY:HA3	10	0.13
(1,65)	1:147:A:VAL:HG23	1:149:A:GLY:HA3	10	0.13
(1,51)	1:90:A:ALA:H	1:91:A:ARG:HA	11	0.13
(1,51)	1:90:A:ALA:H	1:91:A:ARG:HA	14	0.13
(1,31)	1:86:A:THR:HB	1:97:A:HIS:HB3	17	0.13
(1,30)	1:97:A:HIS:H	1:98:A:ALA:HA	11	0.13
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD11	2	0.12
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD12	2	0.12
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD13	2	0.12
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD21	2	0.12
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD22	2	0.12
(1,1208)	1:157:A:HIS:HB2	1:162:A:LEU:HD23	2	0.12
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD11	2	0.12
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD12	2	0.12
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD13	2	0.12
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD21	2	0.12
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD22	2	0.12
(1,1208)	1:157:A:HIS:HB3	1:162:A:LEU:HD23	2	0.12
(1,1193)	1:148:A:LEU:HD11	1:149:A:GLY:H	4	0.12
(1,1193)	1:148:A:LEU:HD12	1:149:A:GLY:H	4	0.12
(1,1193)	1:148:A:LEU:HD13	1:149:A:GLY:H	4	0.12
(1,1193)	1:148:A:LEU:HD21	1:149:A:GLY:H	4	0.12
(1,1193)	1:148:A:LEU:HD22	1:149:A:GLY:H	4	0.12
(1,1193)	1:148:A:LEU:HD23	1:149:A:GLY:H	4	0.12
(1,1190)	1:146:A:ARG:HB2	1:151:A:VAL:HG11	7	0.12
(1,1190)	1:146:A:ARG:HB2	1:151:A:VAL:HG12	7	0.12
(1,1190)	1:146:A:ARG:HB2	1:151:A:VAL:HG13	7	0.12
(1,1190)	1:146:A:ARG:HB2	1:151:A:VAL:HG21	7	0.12
(1,1190)	1:146:A:ARG:HB2	1:151:A:VAL:HG22	7	0.12
(1,1190)	1:146:A:ARG:HB2	1:151:A:VAL:HG23	7	0.12
(1,1190)	1:146:A:ARG:HB3	1:151:A:VAL:HG11	7	0.12
(1,1190)	1:146:A:ARG:HB3	1:151:A:VAL:HG12	7	0.12
(1,1190)	1:146:A:ARG:HB3	1:151:A:VAL:HG13	7	0.12
(1,1190)	1:146:A:ARG:HB3	1:151:A:VAL:HG21	7	0.12
(1,1190)	1:146:A:ARG:HB3	1:151:A:VAL:HG22	7	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1190)	1:146:A:ARG:HB3	1:151:A:VAL:HG23	7	0.12
(1,1172)	1:95:A:LEU:HD11	1:96:A:ALA:H	12	0.12
(1,1172)	1:95:A:LEU:HD12	1:96:A:ALA:H	12	0.12
(1,1172)	1:95:A:LEU:HD13	1:96:A:ALA:H	12	0.12
(1,1172)	1:95:A:LEU:HD21	1:96:A:ALA:H	12	0.12
(1,1172)	1:95:A:LEU:HD22	1:96:A:ALA:H	12	0.12
(1,1172)	1:95:A:LEU:HD23	1:96:A:ALA:H	12	0.12
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD11	2	0.12
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD12	2	0.12
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD13	2	0.12
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD21	2	0.12
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD22	2	0.12
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD23	2	0.12
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD11	2	0.12
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD12	2	0.12
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD13	2	0.12
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD21	2	0.12
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD22	2	0.12
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD23	2	0.12
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD11	2	0.12
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD12	2	0.12
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD13	2	0.12
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD21	2	0.12
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD22	2	0.12
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD23	2	0.12
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD11	2	0.12
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD12	2	0.12
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD13	2	0.12
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD21	2	0.12
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD22	2	0.12
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD23	2	0.12
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD11	2	0.12
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD12	2	0.12
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD13	2	0.12
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD21	2	0.12
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD22	2	0.12
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD23	2	0.12
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD11	2	0.12
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD12	2	0.12
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD13	2	0.12
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD21	2	0.12
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD22	2	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD23	2	0.12
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD11	9	0.12
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD12	9	0.12
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD13	9	0.12
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD21	9	0.12
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD22	9	0.12
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD23	9	0.12
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD11	9	0.12
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD12	9	0.12
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD13	9	0.12
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD21	9	0.12
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD22	9	0.12
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD23	9	0.12
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD11	9	0.12
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD12	9	0.12
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD13	9	0.12
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD21	9	0.12
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD22	9	0.12
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD23	9	0.12
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD11	9	0.12
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD12	9	0.12
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD13	9	0.12
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD21	9	0.12
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD22	9	0.12
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD23	9	0.12
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD11	9	0.12
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD12	9	0.12
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD13	9	0.12
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD21	9	0.12
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD22	9	0.12
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD23	9	0.12
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD11	9	0.12
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD12	9	0.12
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD13	9	0.12
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD21	9	0.12
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD22	9	0.12
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD23	9	0.12
(1,1120)	1:77:A:LEU:HD11	1:98:A:ALA:H	1	0.12
(1,1120)	1:77:A:LEU:HD12	1:98:A:ALA:H	1	0.12
(1,1120)	1:77:A:LEU:HD13	1:98:A:ALA:H	1	0.12
(1,1120)	1:77:A:LEU:HD21	1:98:A:ALA:H	1	0.12
(1,1120)	1:77:A:LEU:HD22	1:98:A:ALA:H	1	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1120)	1:77:A:LEU:HD23	1:98:A:ALA:H	1	0.12
(1,1101)	1:72:A:ILE:H	1:77:A:LEU:HD11	2	0.12
(1,1101)	1:72:A:ILE:H	1:77:A:LEU:HD12	2	0.12
(1,1101)	1:72:A:ILE:H	1:77:A:LEU:HD13	2	0.12
(1,1101)	1:72:A:ILE:H	1:77:A:LEU:HD21	2	0.12
(1,1101)	1:72:A:ILE:H	1:77:A:LEU:HD22	2	0.12
(1,1101)	1:72:A:ILE:H	1:77:A:LEU:HD23	2	0.12
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG11	3	0.12
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG12	3	0.12
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG13	3	0.12
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG21	3	0.12
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG22	3	0.12
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG23	3	0.12
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG11	12	0.12
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG12	12	0.12
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG13	12	0.12
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG21	12	0.12
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG22	12	0.12
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG23	12	0.12
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG11	19	0.12
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG12	19	0.12
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG13	19	0.12
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG21	19	0.12
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG22	19	0.12
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG23	19	0.12
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG11	2	0.12
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG12	2	0.12
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG13	2	0.12
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG21	2	0.12
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG22	2	0.12
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG23	2	0.12
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG11	3	0.12
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG12	3	0.12
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG13	3	0.12
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG21	3	0.12
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG22	3	0.12
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG23	3	0.12
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG11	12	0.12
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG12	12	0.12
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG13	12	0.12
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG21	12	0.12
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG22	12	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG23	12	0.12
(1,1054)	1:61:A:LEU:HB2	1:65:A:ASP:H	12	0.12
(1,1054)	1:61:A:LEU:HB3	1:65:A:ASP:H	12	0.12
(1,1022)	1:71:A:ARG:HB2	1:72:A:ILE:HA	2	0.12
(1,1022)	1:71:A:ARG:HB3	1:72:A:ILE:HA	2	0.12
(1,1022)	1:71:A:ARG:HB2	1:72:A:ILE:HA	12	0.12
(1,1022)	1:71:A:ARG:HB3	1:72:A:ILE:HA	12	0.12
(1,1005)	1:142:A:PRO:HA	1:148:A:LEU:HG	12	0.12
(1,973)	1:119:A:GLU:HB2	1:122:A:THR:H	3	0.12
(1,973)	1:119:A:GLU:HB3	1:122:A:THR:H	3	0.12
(1,970)	1:138:A:GLY:HA3	1:140:A:THR:HG21	14	0.12
(1,970)	1:138:A:GLY:HA3	1:140:A:THR:HG22	14	0.12
(1,970)	1:138:A:GLY:HA3	1:140:A:THR:HG23	14	0.12
(1,965)	1:56:A:LEU:HG	1:57:A:ALA:HA	8	0.12
(1,945)	1:146:A:ARG:H	1:146:A:ARG:HG2	15	0.12
(1,945)	1:146:A:ARG:H	1:146:A:ARG:HG3	15	0.12
(1,945)	1:146:A:ARG:H	1:146:A:ARG:HG2	17	0.12
(1,945)	1:146:A:ARG:H	1:146:A:ARG:HG3	17	0.12
(1,945)	1:146:A:ARG:H	1:146:A:ARG:HG2	20	0.12
(1,945)	1:146:A:ARG:H	1:146:A:ARG:HG3	20	0.12
(1,930)	1:94:A:ARG:HG2	1:96:A:ALA:HB1	3	0.12
(1,930)	1:94:A:ARG:HG2	1:96:A:ALA:HB2	3	0.12
(1,930)	1:94:A:ARG:HG2	1:96:A:ALA:HB3	3	0.12
(1,930)	1:94:A:ARG:HG3	1:96:A:ALA:HB1	3	0.12
(1,930)	1:94:A:ARG:HG3	1:96:A:ALA:HB2	3	0.12
(1,930)	1:94:A:ARG:HG3	1:96:A:ALA:HB3	3	0.12
(1,867)	1:65:A:ASP:H	1:69:A:LEU:HB2	8	0.12
(1,867)	1:65:A:ASP:H	1:69:A:LEU:HB3	8	0.12
(1,864)	1:90:A:ALA:HB1	1:149:A:GLY:H	4	0.12
(1,864)	1:90:A:ALA:HB2	1:149:A:GLY:H	4	0.12
(1,864)	1:90:A:ALA:HB3	1:149:A:GLY:H	4	0.12
(1,856)	1:73:A:ALA:H	1:77:A:LEU:HB2	14	0.12
(1,856)	1:73:A:ALA:H	1:77:A:LEU:HB3	14	0.12
(1,843)	1:71:A:ARG:H	1:72:A:ILE:HG21	2	0.12
(1,843)	1:71:A:ARG:H	1:72:A:ILE:HG22	2	0.12
(1,843)	1:71:A:ARG:H	1:72:A:ILE:HG23	2	0.12
(1,836)	1:136:A:LEU:HG	1:137:A:SER:H	15	0.12
(1,830)	1:56:A:LEU:H	1:57:A:ALA:HA	1	0.12
(1,830)	1:56:A:LEU:H	1:57:A:ALA:HA	8	0.12
(1,827)	1:91:A:ARG:H	1:92:A:GLN:HA	1	0.12
(1,827)	1:91:A:ARG:H	1:92:A:GLN:HA	2	0.12
(1,822)	1:75:A:GLU:H	1:77:A:LEU:HB2	8	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,822)	1:75:A:GLU:H	1:77:A:LEU:HB3	8	0.12
(1,793)	1:69:A:LEU:HD11	1:71:A:ARG:H	8	0.12
(1,793)	1:69:A:LEU:HD12	1:71:A:ARG:H	8	0.12
(1,793)	1:69:A:LEU:HD13	1:71:A:ARG:H	8	0.12
(1,785)	1:67:A:ALA:HA	1:69:A:LEU:H	9	0.12
(1,769)	1:68:A:VAL:H	1:72:A:ILE:HD11	10	0.12
(1,769)	1:68:A:VAL:H	1:72:A:ILE:HD12	10	0.12
(1,769)	1:68:A:VAL:H	1:72:A:ILE:HD13	10	0.12
(1,749)	1:138:A:GLY:HA2	1:140:A:THR:HG21	16	0.12
(1,749)	1:138:A:GLY:HA2	1:140:A:THR:HG22	16	0.12
(1,749)	1:138:A:GLY:HA2	1:140:A:THR:HG23	16	0.12
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD11	8	0.12
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD12	8	0.12
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD13	8	0.12
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD21	8	0.12
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD22	8	0.12
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD23	8	0.12
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD11	8	0.12
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD12	8	0.12
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD13	8	0.12
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD21	8	0.12
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD22	8	0.12
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD23	8	0.12
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD11	8	0.12
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD12	8	0.12
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD13	8	0.12
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD21	8	0.12
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD22	8	0.12
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD23	8	0.12
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD11	12	0.12
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD12	12	0.12
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD13	12	0.12
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD21	12	0.12
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD22	12	0.12
(1,724)	1:86:A:THR:HG21	1:103:A:LEU:HD23	12	0.12
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD11	12	0.12
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD12	12	0.12
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD13	12	0.12
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD21	12	0.12
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD22	12	0.12
(1,724)	1:86:A:THR:HG22	1:103:A:LEU:HD23	12	0.12
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD11	12	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD12	12	0.12
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD13	12	0.12
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD21	12	0.12
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD22	12	0.12
(1,724)	1:86:A:THR:HG23	1:103:A:LEU:HD23	12	0.12
(1,703)	1:60:A:ALA:H	1:60:A:ALA:HA	6	0.12
(1,616)	1:38:A:MET:HA	1:42:A:LEU:HB2	1	0.12
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD21	9	0.12
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD22	9	0.12
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD23	9	0.12
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD21	9	0.12
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD22	9	0.12
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD23	9	0.12
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD21	9	0.12
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD22	9	0.12
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD23	9	0.12
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD21	13	0.12
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD22	13	0.12
(1,607)	1:67:A:ALA:HB1	1:69:A:LEU:HD23	13	0.12
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD21	13	0.12
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD22	13	0.12
(1,607)	1:67:A:ALA:HB2	1:69:A:LEU:HD23	13	0.12
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD21	13	0.12
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD22	13	0.12
(1,607)	1:67:A:ALA:HB3	1:69:A:LEU:HD23	13	0.12
(1,606)	1:66:A:THR:HG21	1:96:A:ALA:H	11	0.12
(1,606)	1:66:A:THR:HG22	1:96:A:ALA:H	11	0.12
(1,606)	1:66:A:THR:HG23	1:96:A:ALA:H	11	0.12
(1,547)	1:61:A:LEU:HD21	1:64:A:LYS:HA	2	0.12
(1,547)	1:61:A:LEU:HD22	1:64:A:LYS:HA	2	0.12
(1,547)	1:61:A:LEU:HD23	1:64:A:LYS:HA	2	0.12
(1,547)	1:61:A:LEU:HD21	1:64:A:LYS:HA	11	0.12
(1,547)	1:61:A:LEU:HD22	1:64:A:LYS:HA	11	0.12
(1,547)	1:61:A:LEU:HD23	1:64:A:LYS:HA	11	0.12
(1,547)	1:61:A:LEU:HD21	1:64:A:LYS:HA	15	0.12
(1,547)	1:61:A:LEU:HD22	1:64:A:LYS:HA	15	0.12
(1,547)	1:61:A:LEU:HD23	1:64:A:LYS:HA	15	0.12
(1,547)	1:61:A:LEU:HD21	1:64:A:LYS:HA	19	0.12
(1,547)	1:61:A:LEU:HD22	1:64:A:LYS:HA	19	0.12
(1,547)	1:61:A:LEU:HD23	1:64:A:LYS:HA	19	0.12
(1,531)	1:111:A:ALA:HB1	1:114:A:LEU:HB2	10	0.12
(1,531)	1:111:A:ALA:HB1	1:114:A:LEU:HB3	10	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,531)	1:111:A:ALA:HB2	1:114:A:LEU:HB2	10	0.12
(1,531)	1:111:A:ALA:HB2	1:114:A:LEU:HB3	10	0.12
(1,531)	1:111:A:ALA:HB3	1:114:A:LEU:HB2	10	0.12
(1,531)	1:111:A:ALA:HB3	1:114:A:LEU:HB3	10	0.12
(1,521)	1:98:A:ALA:HA	1:103:A:LEU:H	4	0.12
(1,511)	1:146:A:ARG:HE	1:147:A:VAL:HG11	1	0.12
(1,511)	1:146:A:ARG:HE	1:147:A:VAL:HG12	1	0.12
(1,511)	1:146:A:ARG:HE	1:147:A:VAL:HG13	1	0.12
(1,511)	1:146:A:ARG:HE	1:147:A:VAL:HG11	4	0.12
(1,511)	1:146:A:ARG:HE	1:147:A:VAL:HG12	4	0.12
(1,511)	1:146:A:ARG:HE	1:147:A:VAL:HG13	4	0.12
(1,511)	1:146:A:ARG:HE	1:147:A:VAL:HG11	14	0.12
(1,511)	1:146:A:ARG:HE	1:147:A:VAL:HG12	14	0.12
(1,511)	1:146:A:ARG:HE	1:147:A:VAL:HG13	14	0.12
(1,510)	1:148:A:LEU:HG	1:149:A:GLY:H	4	0.12
(1,485)	1:44:A:GLU:HG2	1:45:A:ARG:HA	4	0.12
(1,485)	1:44:A:GLU:HG3	1:45:A:ARG:HA	4	0.12
(1,448)	1:86:A:THR:HG21	1:150:A:TRP:HE3	2	0.12
(1,448)	1:86:A:THR:HG22	1:150:A:TRP:HE3	2	0.12
(1,448)	1:86:A:THR:HG23	1:150:A:TRP:HE3	2	0.12
(1,446)	1:41:A:GLN:HG3	1:42:A:LEU:HA	11	0.12
(1,440)	1:65:A:ASP:HA	1:147:A:VAL:HG11	2	0.12
(1,440)	1:65:A:ASP:HA	1:147:A:VAL:HG12	2	0.12
(1,440)	1:65:A:ASP:HA	1:147:A:VAL:HG13	2	0.12
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG21	17	0.12
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG22	17	0.12
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG23	17	0.12
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG21	17	0.12
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG22	17	0.12
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG23	17	0.12
(1,432)	1:131:A:GLY:H	1:132:A:ARG:HG2	5	0.12
(1,432)	1:131:A:GLY:H	1:132:A:ARG:HG3	5	0.12
(1,432)	1:131:A:GLY:H	1:132:A:ARG:HG2	14	0.12
(1,432)	1:131:A:GLY:H	1:132:A:ARG:HG3	14	0.12
(1,366)	1:70:A:ASN:H	1:72:A:ILE:HG12	7	0.12
(1,366)	1:70:A:ASN:H	1:72:A:ILE:HG13	7	0.12
(1,366)	1:70:A:ASN:H	1:72:A:ILE:HG12	11	0.12
(1,366)	1:70:A:ASN:H	1:72:A:ILE:HG13	11	0.12
(1,366)	1:70:A:ASN:H	1:72:A:ILE:HG12	17	0.12
(1,366)	1:70:A:ASN:H	1:72:A:ILE:HG13	17	0.12
(1,358)	1:51:A:GLU:H	1:52:A:GLN:HB2	20	0.12
(1,358)	1:51:A:GLU:H	1:52:A:GLN:HB3	20	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,342)	1:135:A:SER:HB2	1:136:A:LEU:H	6	0.12
(1,322)	1:60:A:ALA:H	1:65:A:ASP:HB2	18	0.12
(1,321)	1:65:A:ASP:HB3	1:66:A:THR:H	1	0.12
(1,321)	1:65:A:ASP:HB3	1:66:A:THR:H	7	0.12
(1,319)	1:66:A:THR:HG21	1:71:A:ARG:H	6	0.12
(1,319)	1:66:A:THR:HG22	1:71:A:ARG:H	6	0.12
(1,319)	1:66:A:THR:HG23	1:71:A:ARG:H	6	0.12
(1,310)	1:51:A:GLU:HB2	1:52:A:GLN:H	12	0.12
(1,310)	1:51:A:GLU:HB3	1:52:A:GLN:H	12	0.12
(1,309)	1:146:A:ARG:HD2	1:147:A:VAL:H	17	0.12
(1,309)	1:146:A:ARG:HD3	1:147:A:VAL:H	17	0.12
(1,304)	1:83:A:ARG:HA	1:84:A:ALA:HB1	11	0.12
(1,304)	1:83:A:ARG:HA	1:84:A:ALA:HB2	11	0.12
(1,304)	1:83:A:ARG:HA	1:84:A:ALA:HB3	11	0.12
(1,304)	1:83:A:ARG:HA	1:84:A:ALA:HB1	14	0.12
(1,304)	1:83:A:ARG:HA	1:84:A:ALA:HB2	14	0.12
(1,304)	1:83:A:ARG:HA	1:84:A:ALA:HB3	14	0.12
(1,285)	1:42:A:LEU:HB3	1:44:A:GLU:H	11	0.12
(1,281)	1:115:A:SER:HA	1:116:A:MET:HA	4	0.12
(1,281)	1:115:A:SER:HA	1:116:A:MET:HA	16	0.12
(1,278)	1:47:A:GLN:H	1:52:A:GLN:HE21	1	0.12
(1,278)	1:47:A:GLN:H	1:52:A:GLN:HE21	17	0.12
(1,271)	1:94:A:ARG:H	1:94:A:ARG:HG2	2	0.12
(1,271)	1:94:A:ARG:H	1:94:A:ARG:HG3	2	0.12
(1,264)	1:83:A:ARG:H	1:154:A:GLU:HB2	17	0.12
(1,264)	1:83:A:ARG:H	1:154:A:GLU:HB3	17	0.12
(1,257)	1:104:A:THR:H	1:106:A:ALA:H	10	0.12
(1,254)	1:82:A:VAL:HG11	1:154:A:GLU:HA	17	0.12
(1,254)	1:82:A:VAL:HG12	1:154:A:GLU:HA	17	0.12
(1,254)	1:82:A:VAL:HG13	1:154:A:GLU:HA	17	0.12
(1,254)	1:82:A:VAL:HG21	1:154:A:GLU:HA	17	0.12
(1,254)	1:82:A:VAL:HG22	1:154:A:GLU:HA	17	0.12
(1,254)	1:82:A:VAL:HG23	1:154:A:GLU:HA	17	0.12
(1,249)	1:139:A:ALA:H	1:147:A:VAL:HG21	7	0.12
(1,249)	1:139:A:ALA:H	1:147:A:VAL:HG22	7	0.12
(1,249)	1:139:A:ALA:H	1:147:A:VAL:HG23	7	0.12
(1,248)	1:61:A:LEU:HD21	1:64:A:LYS:H	2	0.12
(1,248)	1:61:A:LEU:HD22	1:64:A:LYS:H	2	0.12
(1,248)	1:61:A:LEU:HD23	1:64:A:LYS:H	2	0.12
(1,234)	1:66:A:THR:HB	1:87:A:PHE:HB2	6	0.12
(1,231)	1:95:A:LEU:HD21	1:96:A:ALA:H	18	0.12
(1,231)	1:95:A:LEU:HD22	1:96:A:ALA:H	18	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,231)	1:95:A:LEU:HD23	1:96:A:ALA:H	18	0.12
(1,217)	1:66:A:THR:HA	1:87:A:PHE:HE1	20	0.12
(1,217)	1:66:A:THR:HA	1:87:A:PHE:HE2	20	0.12
(1,207)	1:82:A:VAL:HG11	1:98:A:ALA:H	12	0.12
(1,207)	1:82:A:VAL:HG12	1:98:A:ALA:H	12	0.12
(1,207)	1:82:A:VAL:HG13	1:98:A:ALA:H	12	0.12
(1,207)	1:82:A:VAL:HG21	1:98:A:ALA:H	12	0.12
(1,207)	1:82:A:VAL:HG22	1:98:A:ALA:H	12	0.12
(1,207)	1:82:A:VAL:HG23	1:98:A:ALA:H	12	0.12
(1,207)	1:82:A:VAL:HG11	1:98:A:ALA:H	17	0.12
(1,207)	1:82:A:VAL:HG12	1:98:A:ALA:H	17	0.12
(1,207)	1:82:A:VAL:HG13	1:98:A:ALA:H	17	0.12
(1,207)	1:82:A:VAL:HG21	1:98:A:ALA:H	17	0.12
(1,207)	1:82:A:VAL:HG22	1:98:A:ALA:H	17	0.12
(1,207)	1:82:A:VAL:HG23	1:98:A:ALA:H	17	0.12
(1,200)	1:49:A:ILE:HD11	1:50:A:ALA:H	11	0.12
(1,200)	1:49:A:ILE:HD12	1:50:A:ALA:H	11	0.12
(1,200)	1:49:A:ILE:HD13	1:50:A:ALA:H	11	0.12
(1,195)	1:88:A:LEU:H	1:150:A:TRP:HA	20	0.12
(1,193)	1:76:A:ALA:HA	1:79:A:GLN:HE22	15	0.12
(1,192)	1:40:A:ALA:H	1:41:A:GLN:HG2	11	0.12
(1,192)	1:40:A:ALA:H	1:41:A:GLN:HG2	15	0.12
(1,185)	1:63:A:ARG:H	1:63:A:ARG:HD2	19	0.12
(1,185)	1:63:A:ARG:H	1:63:A:ARG:HD3	19	0.12
(1,182)	1:69:A:LEU:HD11	1:70:A:ASN:H	2	0.12
(1,182)	1:69:A:LEU:HD12	1:70:A:ASN:H	2	0.12
(1,182)	1:69:A:LEU:HD13	1:70:A:ASN:H	2	0.12
(1,179)	1:49:A:ILE:HG21	1:54:A:ALA:HA	5	0.12
(1,179)	1:49:A:ILE:HG22	1:54:A:ALA:HA	5	0.12
(1,179)	1:49:A:ILE:HG23	1:54:A:ALA:HA	5	0.12
(1,179)	1:49:A:ILE:HG21	1:54:A:ALA:HA	13	0.12
(1,179)	1:49:A:ILE:HG22	1:54:A:ALA:HA	13	0.12
(1,179)	1:49:A:ILE:HG23	1:54:A:ALA:HA	13	0.12
(1,158)	1:97:A:HIS:HB3	1:131:A:GLY:H	20	0.12
(1,134)	1:103:A:LEU:H	1:105:A:VAL:H	13	0.12
(1,134)	1:103:A:LEU:H	1:105:A:VAL:H	19	0.12
(1,119)	1:87:A:PHE:HD1	1:98:A:ALA:H	16	0.12
(1,119)	1:87:A:PHE:HD2	1:98:A:ALA:H	16	0.12
(1,116)	1:90:A:ALA:H	1:93:A:GLU:H	19	0.12
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB1	6	0.12
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB2	6	0.12
(1,109)	1:44:A:GLU:HG2	1:60:A:ALA:HB3	6	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB1	6	0.12
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB2	6	0.12
(1,109)	1:44:A:GLU:HG3	1:60:A:ALA:HB3	6	0.12
(1,102)	1:51:A:GLU:H	1:52:A:GLN:HE21	3	0.12
(1,98)	1:79:A:GLN:H	1:81:A:ASP:H	7	0.12
(1,98)	1:79:A:GLN:H	1:81:A:ASP:H	16	0.12
(1,85)	1:76:A:ALA:HB1	1:79:A:GLN:HE21	18	0.12
(1,85)	1:76:A:ALA:HB2	1:79:A:GLN:HE21	18	0.12
(1,85)	1:76:A:ALA:HB3	1:79:A:GLN:HE21	18	0.12
(1,77)	1:88:A:LEU:HD11	1:124:A:HIS:H	19	0.12
(1,77)	1:88:A:LEU:HD12	1:124:A:HIS:H	19	0.12
(1,77)	1:88:A:LEU:HD13	1:124:A:HIS:H	19	0.12
(1,47)	1:70:A:ASN:H	1:71:A:ARG:HE	1	0.12
(1,47)	1:70:A:ASN:H	1:71:A:ARG:HE	2	0.12
(1,44)	1:43:A:ILE:HG21	1:48:A:LEU:H	14	0.12
(1,44)	1:43:A:ILE:HG22	1:48:A:LEU:H	14	0.12
(1,44)	1:43:A:ILE:HG23	1:48:A:LEU:H	14	0.12
(1,42)	1:124:A:HIS:HD2	1:127:A:LEU:HB2	13	0.12
(1,42)	1:124:A:HIS:HD2	1:127:A:LEU:HB3	13	0.12
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG21	4	0.11
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG22	4	0.11
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG23	4	0.11
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG21	4	0.11
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG22	4	0.11
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG23	4	0.11
(1,1184)	1:135:A:SER:HB2	1:136:A:LEU:H	18	0.11
(1,1184)	1:135:A:SER:HB3	1:136:A:LEU:H	18	0.11
(1,1182)	1:130:A:LEU:HD11	1:131:A:GLY:HA2	7	0.11
(1,1182)	1:130:A:LEU:HD11	1:131:A:GLY:HA3	7	0.11
(1,1182)	1:130:A:LEU:HD12	1:131:A:GLY:HA2	7	0.11
(1,1182)	1:130:A:LEU:HD12	1:131:A:GLY:HA3	7	0.11
(1,1182)	1:130:A:LEU:HD13	1:131:A:GLY:HA2	7	0.11
(1,1182)	1:130:A:LEU:HD13	1:131:A:GLY:HA3	7	0.11
(1,1182)	1:130:A:LEU:HD21	1:131:A:GLY:HA2	7	0.11
(1,1182)	1:130:A:LEU:HD21	1:131:A:GLY:HA3	7	0.11
(1,1182)	1:130:A:LEU:HD22	1:131:A:GLY:HA2	7	0.11
(1,1182)	1:130:A:LEU:HD22	1:131:A:GLY:HA3	7	0.11
(1,1182)	1:130:A:LEU:HD23	1:131:A:GLY:HA2	7	0.11
(1,1182)	1:130:A:LEU:HD23	1:131:A:GLY:HA3	7	0.11
(1,1158)	1:87:A:PHE:HZ	1:155:A:LEU:HD11	11	0.11
(1,1158)	1:87:A:PHE:HZ	1:155:A:LEU:HD12	11	0.11
(1,1158)	1:87:A:PHE:HZ	1:155:A:LEU:HD13	11	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1158)	1:87:A:PHE:HZ	1:155:A:LEU:HD21	11	0.11
(1,1158)	1:87:A:PHE:HZ	1:155:A:LEU:HD22	11	0.11
(1,1158)	1:87:A:PHE:HZ	1:155:A:LEU:HD23	11	0.11
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD11	1	0.11
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD12	1	0.11
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD13	1	0.11
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD21	1	0.11
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD22	1	0.11
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD23	1	0.11
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD11	1	0.11
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD12	1	0.11
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD13	1	0.11
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD21	1	0.11
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD22	1	0.11
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD23	1	0.11
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD11	18	0.11
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD12	18	0.11
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD13	18	0.11
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD21	18	0.11
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD22	18	0.11
(1,1156)	1:87:A:PHE:HE1	1:155:A:LEU:HD23	18	0.11
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD11	18	0.11
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD12	18	0.11
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD13	18	0.11
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD21	18	0.11
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD22	18	0.11
(1,1156)	1:87:A:PHE:HE2	1:155:A:LEU:HD23	18	0.11
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD11	15	0.11
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD12	15	0.11
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD13	15	0.11
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD21	15	0.11
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD22	15	0.11
(1,1150)	1:87:A:PHE:HA	1:95:A:LEU:HD23	15	0.11
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD11	5	0.11
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD12	5	0.11
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD13	5	0.11
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD21	5	0.11
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD22	5	0.11
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD23	5	0.11
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD11	5	0.11
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD12	5	0.11
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD13	5	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD21	5	0.11
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD22	5	0.11
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD23	5	0.11
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD11	5	0.11
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD12	5	0.11
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD13	5	0.11
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD21	5	0.11
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD22	5	0.11
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD23	5	0.11
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD11	5	0.11
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD12	5	0.11
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD13	5	0.11
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD21	5	0.11
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD22	5	0.11
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD23	5	0.11
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD11	5	0.11
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD12	5	0.11
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD13	5	0.11
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD21	5	0.11
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD22	5	0.11
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD23	5	0.11
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD11	5	0.11
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD12	5	0.11
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD13	5	0.11
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD21	5	0.11
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD22	5	0.11
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD23	5	0.11
(1,1120)	1:77:A:LEU:HD11	1:98:A:ALA:H	2	0.11
(1,1120)	1:77:A:LEU:HD12	1:98:A:ALA:H	2	0.11
(1,1120)	1:77:A:LEU:HD13	1:98:A:ALA:H	2	0.11
(1,1120)	1:77:A:LEU:HD21	1:98:A:ALA:H	2	0.11
(1,1120)	1:77:A:LEU:HD22	1:98:A:ALA:H	2	0.11
(1,1120)	1:77:A:LEU:HD23	1:98:A:ALA:H	2	0.11
(1,1120)	1:77:A:LEU:HD11	1:98:A:ALA:H	18	0.11
(1,1120)	1:77:A:LEU:HD12	1:98:A:ALA:H	18	0.11
(1,1120)	1:77:A:LEU:HD13	1:98:A:ALA:H	18	0.11
(1,1120)	1:77:A:LEU:HD21	1:98:A:ALA:H	18	0.11
(1,1120)	1:77:A:LEU:HD22	1:98:A:ALA:H	18	0.11
(1,1120)	1:77:A:LEU:HD23	1:98:A:ALA:H	18	0.11
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG11	14	0.11
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG12	14	0.11
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG13	14	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG21	14	0.11
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG22	14	0.11
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG23	14	0.11
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG11	17	0.11
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG12	17	0.11
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG13	17	0.11
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG21	17	0.11
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG22	17	0.11
(1,1087)	1:67:A:ALA:H	1:68:A:VAL:HG23	17	0.11
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG11	13	0.11
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG12	13	0.11
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG13	13	0.11
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG21	13	0.11
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG22	13	0.11
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG23	13	0.11
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG11	17	0.11
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG12	17	0.11
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG13	17	0.11
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG21	17	0.11
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG22	17	0.11
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG23	17	0.11
(1,1061)	1:89:A:ASP:H	1:149:A:GLY:HA3	5	0.11
(1,1061)	1:89:A:ASP:H	1:149:A:GLY:HA3	7	0.11
(1,1022)	1:71:A:ARG:HB2	1:72:A:ILE:HA	15	0.11
(1,1022)	1:71:A:ARG:HB3	1:72:A:ILE:HA	15	0.11
(1,1017)	1:64:A:LYS:HD2	1:141:A:GLU:HB2	18	0.11
(1,1017)	1:64:A:LYS:HD2	1:141:A:GLU:HB3	18	0.11
(1,1017)	1:64:A:LYS:HD3	1:141:A:GLU:HB2	18	0.11
(1,1017)	1:64:A:LYS:HD3	1:141:A:GLU:HB3	18	0.11
(1,1016)	1:61:A:LEU:HB2	1:64:A:LYS:HD2	4	0.11
(1,1016)	1:61:A:LEU:HB2	1:64:A:LYS:HD3	4	0.11
(1,1016)	1:61:A:LEU:HB3	1:64:A:LYS:HD2	4	0.11
(1,1016)	1:61:A:LEU:HB3	1:64:A:LYS:HD3	4	0.11
(1,988)	1:66:A:THR:HG21	1:67:A:ALA:H	6	0.11
(1,988)	1:66:A:THR:HG22	1:67:A:ALA:H	6	0.11
(1,988)	1:66:A:THR:HG23	1:67:A:ALA:H	6	0.11
(1,987)	1:146:A:ARG:HG2	1:147:A:VAL:HA	6	0.11
(1,987)	1:146:A:ARG:HG3	1:147:A:VAL:HA	6	0.11
(1,965)	1:56:A:LEU:HG	1:57:A:ALA:HA	11	0.11
(1,946)	1:136:A:LEU:HB2	1:138:A:GLY:H	9	0.11
(1,946)	1:136:A:LEU:HB3	1:138:A:GLY:H	9	0.11
(1,945)	1:146:A:ARG:H	1:146:A:ARG:HG2	9	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,945)	1:146:A:ARG:H	1:146:A:ARG:HG3	9	0.11
(1,945)	1:146:A:ARG:H	1:146:A:ARG:HG2	14	0.11
(1,945)	1:146:A:ARG:H	1:146:A:ARG:HG3	14	0.11
(1,945)	1:146:A:ARG:H	1:146:A:ARG:HG2	18	0.11
(1,945)	1:146:A:ARG:H	1:146:A:ARG:HG3	18	0.11
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG21	4	0.11
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG22	4	0.11
(1,939)	1:94:A:ARG:HD2	1:123:A:THR:HG23	4	0.11
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG21	4	0.11
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG22	4	0.11
(1,939)	1:94:A:ARG:HD3	1:123:A:THR:HG23	4	0.11
(1,930)	1:94:A:ARG:HG2	1:96:A:ALA:HB1	20	0.11
(1,930)	1:94:A:ARG:HG2	1:96:A:ALA:HB2	20	0.11
(1,930)	1:94:A:ARG:HG2	1:96:A:ALA:HB3	20	0.11
(1,930)	1:94:A:ARG:HG3	1:96:A:ALA:HB1	20	0.11
(1,930)	1:94:A:ARG:HG3	1:96:A:ALA:HB2	20	0.11
(1,930)	1:94:A:ARG:HG3	1:96:A:ALA:HB3	20	0.11
(1,915)	1:80:A:PRO:HA	1:81:A:ASP:H	9	0.11
(1,892)	1:67:A:ALA:H	1:146:A:ARG:HE	11	0.11
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB1	2	0.11
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB2	2	0.11
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB3	2	0.11
(1,876)	1:64:A:LYS:H	1:64:A:LYS:HD2	1	0.11
(1,876)	1:64:A:LYS:H	1:64:A:LYS:HD3	1	0.11
(1,876)	1:64:A:LYS:H	1:64:A:LYS:HD2	5	0.11
(1,876)	1:64:A:LYS:H	1:64:A:LYS:HD3	5	0.11
(1,867)	1:65:A:ASP:H	1:69:A:LEU:HB2	10	0.11
(1,867)	1:65:A:ASP:H	1:69:A:LEU:HB3	10	0.11
(1,843)	1:71:A:ARG:H	1:72:A:ILE:HG21	10	0.11
(1,843)	1:71:A:ARG:H	1:72:A:ILE:HG22	10	0.11
(1,843)	1:71:A:ARG:H	1:72:A:ILE:HG23	10	0.11
(1,843)	1:71:A:ARG:H	1:72:A:ILE:HG21	13	0.11
(1,843)	1:71:A:ARG:H	1:72:A:ILE:HG22	13	0.11
(1,843)	1:71:A:ARG:H	1:72:A:ILE:HG23	13	0.11
(1,843)	1:71:A:ARG:H	1:72:A:ILE:HG21	20	0.11
(1,843)	1:71:A:ARG:H	1:72:A:ILE:HG22	20	0.11
(1,843)	1:71:A:ARG:H	1:72:A:ILE:HG23	20	0.11
(1,827)	1:91:A:ARG:H	1:92:A:GLN:HA	3	0.11
(1,827)	1:91:A:ARG:H	1:92:A:GLN:HA	4	0.11
(1,827)	1:91:A:ARG:H	1:92:A:GLN:HA	6	0.11
(1,822)	1:75:A:GLU:H	1:77:A:LEU:HB2	12	0.11
(1,822)	1:75:A:GLU:H	1:77:A:LEU:HB3	12	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,790)	1:74:A:ASN:HD21	1:98:A:ALA:HB1	4	0.11
(1,790)	1:74:A:ASN:HD21	1:98:A:ALA:HB2	4	0.11
(1,790)	1:74:A:ASN:HD21	1:98:A:ALA:HB3	4	0.11
(1,785)	1:67:A:ALA:HA	1:69:A:LEU:H	10	0.11
(1,784)	1:147:A:VAL:H	1:149:A:GLY:H	14	0.11
(1,784)	1:147:A:VAL:H	1:149:A:GLY:H	19	0.11
(1,769)	1:68:A:VAL:H	1:72:A:ILE:HD11	1	0.11
(1,769)	1:68:A:VAL:H	1:72:A:ILE:HD12	1	0.11
(1,769)	1:68:A:VAL:H	1:72:A:ILE:HD13	1	0.11
(1,769)	1:68:A:VAL:H	1:72:A:ILE:HD11	6	0.11
(1,769)	1:68:A:VAL:H	1:72:A:ILE:HD12	6	0.11
(1,769)	1:68:A:VAL:H	1:72:A:ILE:HD13	6	0.11
(1,767)	1:89:A:ASP:H	1:93:A:GLU:HG2	12	0.11
(1,767)	1:89:A:ASP:H	1:93:A:GLU:HG3	12	0.11
(1,766)	1:59:A:THR:HA	1:62:A:ALA:HB1	7	0.11
(1,766)	1:59:A:THR:HA	1:62:A:ALA:HB2	7	0.11
(1,766)	1:59:A:THR:HA	1:62:A:ALA:HB3	7	0.11
(1,742)	1:88:A:LEU:HB2	1:93:A:GLU:HG2	11	0.11
(1,742)	1:88:A:LEU:HB2	1:93:A:GLU:HG3	11	0.11
(1,742)	1:88:A:LEU:HB3	1:93:A:GLU:HG2	11	0.11
(1,742)	1:88:A:LEU:HB3	1:93:A:GLU:HG3	11	0.11
(1,722)	1:56:A:LEU:HG	1:57:A:ALA:HB1	10	0.11
(1,722)	1:56:A:LEU:HG	1:57:A:ALA:HB2	10	0.11
(1,722)	1:56:A:LEU:HG	1:57:A:ALA:HB3	10	0.11
(1,703)	1:60:A:ALA:H	1:60:A:ALA:HA	20	0.11
(1,657)	1:59:A:THR:HA	1:62:A:ALA:H	20	0.11
(1,618)	1:162:A:LEU:HB2	1:163:A:ARG:H	7	0.11
(1,618)	1:162:A:LEU:HB3	1:163:A:ARG:H	7	0.11
(1,616)	1:38:A:MET:HA	1:42:A:LEU:HB2	2	0.11
(1,616)	1:38:A:MET:HA	1:42:A:LEU:HB2	3	0.11
(1,616)	1:38:A:MET:HA	1:42:A:LEU:HB2	10	0.11
(1,616)	1:38:A:MET:HA	1:42:A:LEU:HB2	14	0.11
(1,598)	1:48:A:LEU:HA	1:49:A:ILE:H	10	0.11
(1,569)	1:108:A:ALA:HB1	1:109:A:GLY:H	12	0.11
(1,569)	1:108:A:ALA:HB2	1:109:A:GLY:H	12	0.11
(1,569)	1:108:A:ALA:HB3	1:109:A:GLY:H	12	0.11
(1,543)	1:139:A:ALA:H	1:140:A:THR:HB	15	0.11
(1,510)	1:148:A:LEU:HG	1:149:A:GLY:H	6	0.11
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB1	6	0.11
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB2	6	0.11
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB3	6	0.11
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB1	6	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB2	6	0.11
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB3	6	0.11
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB1	6	0.11
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB2	6	0.11
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB3	6	0.11
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB1	6	0.11
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB2	6	0.11
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB3	6	0.11
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB1	6	0.11
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB2	6	0.11
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB3	6	0.11
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB1	6	0.11
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB2	6	0.11
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB3	6	0.11
(1,482)	1:43:A:ILE:HG21	1:44:A:GLU:H	6	0.11
(1,482)	1:43:A:ILE:HG22	1:44:A:GLU:H	6	0.11
(1,482)	1:43:A:ILE:HG23	1:44:A:GLU:H	6	0.11
(1,481)	1:43:A:ILE:HA	1:45:A:ARG:HB2	10	0.11
(1,481)	1:43:A:ILE:HA	1:45:A:ARG:HB3	10	0.11
(1,470)	1:115:A:SER:H	1:116:A:MET:HB2	6	0.11
(1,470)	1:115:A:SER:H	1:116:A:MET:HB3	6	0.11
(1,450)	1:45:A:ARG:H	1:45:A:ARG:HG2	7	0.11
(1,450)	1:45:A:ARG:H	1:45:A:ARG:HG3	7	0.11
(1,448)	1:86:A:THR:HG21	1:150:A:TRP:HE3	14	0.11
(1,448)	1:86:A:THR:HG22	1:150:A:TRP:HE3	14	0.11
(1,448)	1:86:A:THR:HG23	1:150:A:TRP:HE3	14	0.11
(1,440)	1:65:A:ASP:HA	1:147:A:VAL:HG11	11	0.11
(1,440)	1:65:A:ASP:HA	1:147:A:VAL:HG12	11	0.11
(1,440)	1:65:A:ASP:HA	1:147:A:VAL:HG13	11	0.11
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG21	9	0.11
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG22	9	0.11
(1,439)	1:87:A:PHE:HE1	1:147:A:VAL:HG23	9	0.11
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG21	9	0.11
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG22	9	0.11
(1,439)	1:87:A:PHE:HE2	1:147:A:VAL:HG23	9	0.11
(1,410)	1:104:A:THR:HA	1:106:A:ALA:H	19	0.11
(1,394)	1:39:A:ARG:HA	1:41:A:GLN:HG3	5	0.11
(1,366)	1:70:A:ASN:H	1:72:A:ILE:HG12	4	0.11
(1,366)	1:70:A:ASN:H	1:72:A:ILE:HG13	4	0.11
(1,366)	1:70:A:ASN:H	1:72:A:ILE:HG12	10	0.11
(1,366)	1:70:A:ASN:H	1:72:A:ILE:HG13	10	0.11
(1,366)	1:70:A:ASN:H	1:72:A:ILE:HG12	18	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,366)	1:70:A:ASN:H	1:72:A:ILE:HG13	18	0.11
(1,352)	1:74:A:ASN:HB2	1:75:A:GLU:H	10	0.11
(1,335)	1:76:A:ALA:HB1	1:78:A:ASP:H	16	0.11
(1,335)	1:76:A:ALA:HB2	1:78:A:ASP:H	16	0.11
(1,335)	1:76:A:ALA:HB3	1:78:A:ASP:H	16	0.11
(1,331)	1:66:A:THR:H	1:147:A:VAL:HG21	9	0.11
(1,331)	1:66:A:THR:H	1:147:A:VAL:HG22	9	0.11
(1,331)	1:66:A:THR:H	1:147:A:VAL:HG23	9	0.11
(1,328)	1:47:A:GLN:HE21	1:52:A:GLN:H	14	0.11
(1,321)	1:65:A:ASP:HB3	1:66:A:THR:H	6	0.11
(1,321)	1:65:A:ASP:HB3	1:66:A:THR:H	19	0.11
(1,310)	1:51:A:GLU:HB2	1:52:A:GLN:H	6	0.11
(1,310)	1:51:A:GLU:HB3	1:52:A:GLN:H	6	0.11
(1,310)	1:51:A:GLU:HB2	1:52:A:GLN:H	20	0.11
(1,310)	1:51:A:GLU:HB3	1:52:A:GLN:H	20	0.11
(1,305)	1:93:A:GLU:HA	1:94:A:ARG:HD2	9	0.11
(1,305)	1:93:A:GLU:HA	1:94:A:ARG:HD3	9	0.11
(1,304)	1:83:A:ARG:HA	1:84:A:ALA:HB1	2	0.11
(1,304)	1:83:A:ARG:HA	1:84:A:ALA:HB2	2	0.11
(1,304)	1:83:A:ARG:HA	1:84:A:ALA:HB3	2	0.11
(1,304)	1:83:A:ARG:HA	1:84:A:ALA:HB1	9	0.11
(1,304)	1:83:A:ARG:HA	1:84:A:ALA:HB2	9	0.11
(1,304)	1:83:A:ARG:HA	1:84:A:ALA:HB3	9	0.11
(1,291)	1:97:A:HIS:H	1:97:A:HIS:HD2	6	0.11
(1,291)	1:97:A:HIS:H	1:97:A:HIS:HD2	19	0.11
(1,286)	1:85:A:VAL:H	1:98:A:ALA:HB1	1	0.11
(1,286)	1:85:A:VAL:H	1:98:A:ALA:HB2	1	0.11
(1,286)	1:85:A:VAL:H	1:98:A:ALA:HB3	1	0.11
(1,286)	1:85:A:VAL:H	1:98:A:ALA:HB1	18	0.11
(1,286)	1:85:A:VAL:H	1:98:A:ALA:HB2	18	0.11
(1,286)	1:85:A:VAL:H	1:98:A:ALA:HB3	18	0.11
(1,286)	1:85:A:VAL:H	1:98:A:ALA:HB1	19	0.11
(1,286)	1:85:A:VAL:H	1:98:A:ALA:HB2	19	0.11
(1,286)	1:85:A:VAL:H	1:98:A:ALA:HB3	19	0.11
(1,281)	1:115:A:SER:HA	1:116:A:MET:HA	12	0.11
(1,272)	1:94:A:ARG:H	1:124:A:HIS:HA	16	0.11
(1,240)	1:145:A:GLU:H	1:145:A:GLU:HG2	10	0.11
(1,240)	1:145:A:GLU:H	1:145:A:GLU:HG3	10	0.11
(1,234)	1:66:A:THR:HB	1:87:A:PHE:HB2	3	0.11
(1,231)	1:95:A:LEU:HD21	1:96:A:ALA:H	6	0.11
(1,231)	1:95:A:LEU:HD22	1:96:A:ALA:H	6	0.11
(1,231)	1:95:A:LEU:HD23	1:96:A:ALA:H	6	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,231)	1:95:A:LEU:HD21	1:96:A:ALA:H	20	0.11
(1,231)	1:95:A:LEU:HD22	1:96:A:ALA:H	20	0.11
(1,231)	1:95:A:LEU:HD23	1:96:A:ALA:H	20	0.11
(1,207)	1:82:A:VAL:HG11	1:98:A:ALA:H	4	0.11
(1,207)	1:82:A:VAL:HG12	1:98:A:ALA:H	4	0.11
(1,207)	1:82:A:VAL:HG13	1:98:A:ALA:H	4	0.11
(1,207)	1:82:A:VAL:HG21	1:98:A:ALA:H	4	0.11
(1,207)	1:82:A:VAL:HG22	1:98:A:ALA:H	4	0.11
(1,207)	1:82:A:VAL:HG23	1:98:A:ALA:H	4	0.11
(1,182)	1:69:A:LEU:HD11	1:70:A:ASN:H	5	0.11
(1,182)	1:69:A:LEU:HD12	1:70:A:ASN:H	5	0.11
(1,182)	1:69:A:LEU:HD13	1:70:A:ASN:H	5	0.11
(1,182)	1:69:A:LEU:HD11	1:70:A:ASN:H	18	0.11
(1,182)	1:69:A:LEU:HD12	1:70:A:ASN:H	18	0.11
(1,182)	1:69:A:LEU:HD13	1:70:A:ASN:H	18	0.11
(1,179)	1:49:A:ILE:HG21	1:54:A:ALA:HA	20	0.11
(1,179)	1:49:A:ILE:HG22	1:54:A:ALA:HA	20	0.11
(1,179)	1:49:A:ILE:HG23	1:54:A:ALA:HA	20	0.11
(1,164)	1:58:A:ALA:HA	1:62:A:ALA:H	16	0.11
(1,160)	1:97:A:HIS:HB3	1:150:A:TRP:HZ3	4	0.11
(1,160)	1:97:A:HIS:HB3	1:150:A:TRP:HZ3	14	0.11
(1,156)	1:88:A:LEU:HG	1:89:A:ASP:HB2	20	0.11
(1,156)	1:88:A:LEU:HG	1:89:A:ASP:HB3	20	0.11
(1,134)	1:103:A:LEU:H	1:105:A:VAL:H	8	0.11
(1,133)	1:65:A:ASP:HA	1:147:A:VAL:HG21	12	0.11
(1,133)	1:65:A:ASP:HA	1:147:A:VAL:HG22	12	0.11
(1,133)	1:65:A:ASP:HA	1:147:A:VAL:HG23	12	0.11
(1,126)	1:68:A:VAL:HG21	1:70:A:ASN:H	20	0.11
(1,126)	1:68:A:VAL:HG22	1:70:A:ASN:H	20	0.11
(1,126)	1:68:A:VAL:HG23	1:70:A:ASN:H	20	0.11
(1,125)	1:94:A:ARG:HH21	1:104:A:THR:HB	4	0.11
(1,125)	1:94:A:ARG:HH22	1:104:A:THR:HB	4	0.11
(1,115)	1:94:A:ARG:HA	1:124:A:HIS:H	17	0.11
(1,115)	1:94:A:ARG:HA	1:124:A:HIS:H	19	0.11
(1,106)	1:75:A:GLU:H	1:78:A:ASP:H	5	0.11
(1,102)	1:51:A:GLU:H	1:52:A:GLN:HE21	1	0.11
(1,86)	1:91:A:ARG:HG2	1:93:A:GLU:H	18	0.11
(1,86)	1:91:A:ARG:HG3	1:93:A:GLU:H	18	0.11
(1,82)	1:92:A:GLN:HB2	1:94:A:ARG:H	17	0.11
(1,82)	1:92:A:GLN:HB3	1:94:A:ARG:H	17	0.11
(1,73)	1:90:A:ALA:HB1	1:149:A:GLY:HA2	10	0.11
(1,73)	1:90:A:ALA:HB2	1:149:A:GLY:HA2	10	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,73)	1:90:A:ALA:HB3	1:149:A:GLY:HA2	10	0.11
(1,66)	1:152:A:GLU:HA	1:154:A:GLU:H	3	0.11
(1,60)	1:47:A:GLN:HE22	1:52:A:GLN:H	16	0.11
(1,57)	1:69:A:LEU:H	1:70:A:ASN:HB2	14	0.11
(1,51)	1:90:A:ALA:H	1:91:A:ARG:HA	12	0.11
(1,44)	1:43:A:ILE:HG21	1:48:A:LEU:H	12	0.11
(1,44)	1:43:A:ILE:HG22	1:48:A:LEU:H	12	0.11
(1,44)	1:43:A:ILE:HG23	1:48:A:LEU:H	12	0.11
(1,30)	1:97:A:HIS:H	1:98:A:ALA:HA	12	0.11
(1,30)	1:97:A:HIS:H	1:98:A:ALA:HA	13	0.11
(1,30)	1:97:A:HIS:H	1:98:A:ALA:HA	17	0.11
(1,29)	1:87:A:PHE:HE1	1:96:A:ALA:H	7	0.11
(1,29)	1:87:A:PHE:HE2	1:96:A:ALA:H	7	0.11
(1,28)	1:146:A:ARG:HE	1:147:A:VAL:HG21	1	0.11
(1,28)	1:146:A:ARG:HE	1:147:A:VAL:HG22	1	0.11
(1,28)	1:146:A:ARG:HE	1:147:A:VAL:HG23	1	0.11
(1,16)	1:56:A:LEU:HD11	1:72:A:ILE:H	2	0.11
(1,16)	1:56:A:LEU:HD12	1:72:A:ILE:H	2	0.11
(1,16)	1:56:A:LEU:HD13	1:72:A:ILE:H	2	0.11
(1,16)	1:56:A:LEU:HD21	1:72:A:ILE:H	2	0.11
(1,16)	1:56:A:LEU:HD22	1:72:A:ILE:H	2	0.11
(1,16)	1:56:A:LEU:HD23	1:72:A:ILE:H	2	0.11
(1,16)	1:56:A:LEU:HD11	1:72:A:ILE:H	20	0.11
(1,16)	1:56:A:LEU:HD12	1:72:A:ILE:H	20	0.11
(1,16)	1:56:A:LEU:HD13	1:72:A:ILE:H	20	0.11
(1,16)	1:56:A:LEU:HD21	1:72:A:ILE:H	20	0.11
(1,16)	1:56:A:LEU:HD22	1:72:A:ILE:H	20	0.11
(1,16)	1:56:A:LEU:HD23	1:72:A:ILE:H	20	0.11
(1,7)	1:97:A:HIS:HA	1:150:A:TRP:HZ3	10	0.11
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG21	14	0.1
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG22	14	0.1
(1,1187)	1:138:A:GLY:HA2	1:147:A:VAL:HG23	14	0.1
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG21	14	0.1
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG22	14	0.1
(1,1187)	1:138:A:GLY:HA3	1:147:A:VAL:HG23	14	0.1
(1,1172)	1:95:A:LEU:HD11	1:96:A:ALA:H	17	0.1
(1,1172)	1:95:A:LEU:HD12	1:96:A:ALA:H	17	0.1
(1,1172)	1:95:A:LEU:HD13	1:96:A:ALA:H	17	0.1
(1,1172)	1:95:A:LEU:HD21	1:96:A:ALA:H	17	0.1
(1,1172)	1:95:A:LEU:HD22	1:96:A:ALA:H	17	0.1
(1,1172)	1:95:A:LEU:HD23	1:96:A:ALA:H	17	0.1
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD11	3	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD12	3	0.1
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD13	3	0.1
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD21	3	0.1
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD22	3	0.1
(1,1146)	1:85:A:VAL:HG11	1:155:A:LEU:HD23	3	0.1
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD11	3	0.1
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD12	3	0.1
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD13	3	0.1
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD21	3	0.1
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD22	3	0.1
(1,1146)	1:85:A:VAL:HG12	1:155:A:LEU:HD23	3	0.1
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD11	3	0.1
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD12	3	0.1
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD13	3	0.1
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD21	3	0.1
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD22	3	0.1
(1,1146)	1:85:A:VAL:HG13	1:155:A:LEU:HD23	3	0.1
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD11	3	0.1
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD12	3	0.1
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD13	3	0.1
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD21	3	0.1
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD22	3	0.1
(1,1146)	1:85:A:VAL:HG21	1:155:A:LEU:HD23	3	0.1
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD11	3	0.1
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD12	3	0.1
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD13	3	0.1
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD21	3	0.1
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD22	3	0.1
(1,1146)	1:85:A:VAL:HG22	1:155:A:LEU:HD23	3	0.1
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD11	3	0.1
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD12	3	0.1
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD13	3	0.1
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD21	3	0.1
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD22	3	0.1
(1,1146)	1:85:A:VAL:HG23	1:155:A:LEU:HD23	3	0.1
(1,1120)	1:77:A:LEU:HD11	1:98:A:ALA:H	3	0.1
(1,1120)	1:77:A:LEU:HD12	1:98:A:ALA:H	3	0.1
(1,1120)	1:77:A:LEU:HD13	1:98:A:ALA:H	3	0.1
(1,1120)	1:77:A:LEU:HD21	1:98:A:ALA:H	3	0.1
(1,1120)	1:77:A:LEU:HD22	1:98:A:ALA:H	3	0.1
(1,1120)	1:77:A:LEU:HD23	1:98:A:ALA:H	3	0.1
(1,1120)	1:77:A:LEU:HD11	1:98:A:ALA:H	13	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1120)	1:77:A:LEU:HD12	1:98:A:ALA:H	13	0.1
(1,1120)	1:77:A:LEU:HD13	1:98:A:ALA:H	13	0.1
(1,1120)	1:77:A:LEU:HD21	1:98:A:ALA:H	13	0.1
(1,1120)	1:77:A:LEU:HD22	1:98:A:ALA:H	13	0.1
(1,1120)	1:77:A:LEU:HD23	1:98:A:ALA:H	13	0.1
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG11	4	0.1
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG12	4	0.1
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG13	4	0.1
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG21	4	0.1
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG22	4	0.1
(1,1080)	1:60:A:ALA:HA	1:68:A:VAL:HG23	4	0.1
(1,1054)	1:61:A:LEU:HB2	1:65:A:ASP:H	2	0.1
(1,1054)	1:61:A:LEU:HB3	1:65:A:ASP:H	2	0.1
(1,1054)	1:61:A:LEU:HB2	1:65:A:ASP:H	4	0.1
(1,1054)	1:61:A:LEU:HB3	1:65:A:ASP:H	4	0.1
(1,998)	1:61:A:LEU:HA	1:65:A:ASP:H	11	0.1
(1,988)	1:66:A:THR:HG21	1:67:A:ALA:H	2	0.1
(1,988)	1:66:A:THR:HG22	1:67:A:ALA:H	2	0.1
(1,988)	1:66:A:THR:HG23	1:67:A:ALA:H	2	0.1
(1,972)	1:86:A:THR:HG21	1:87:A:PHE:HA	10	0.1
(1,972)	1:86:A:THR:HG22	1:87:A:PHE:HA	10	0.1
(1,972)	1:86:A:THR:HG23	1:87:A:PHE:HA	10	0.1
(1,945)	1:146:A:ARG:H	1:146:A:ARG:HG2	7	0.1
(1,945)	1:146:A:ARG:H	1:146:A:ARG:HG3	7	0.1
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB1	4	0.1
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB2	4	0.1
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB3	4	0.1
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB1	5	0.1
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB2	5	0.1
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB3	5	0.1
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB1	9	0.1
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB2	9	0.1
(1,885)	1:70:A:ASN:H	1:96:A:ALA:HB3	9	0.1
(1,867)	1:65:A:ASP:H	1:69:A:LEU:HB2	15	0.1
(1,867)	1:65:A:ASP:H	1:69:A:LEU:HB3	15	0.1
(1,843)	1:71:A:ARG:H	1:72:A:ILE:HG21	18	0.1
(1,843)	1:71:A:ARG:H	1:72:A:ILE:HG22	18	0.1
(1,843)	1:71:A:ARG:H	1:72:A:ILE:HG23	18	0.1
(1,835)	1:90:A:ALA:H	1:147:A:VAL:HG11	11	0.1
(1,835)	1:90:A:ALA:H	1:147:A:VAL:HG12	11	0.1
(1,835)	1:90:A:ALA:H	1:147:A:VAL:HG13	11	0.1
(1,827)	1:91:A:ARG:H	1:92:A:GLN:HA	5	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,803)	1:89:A:ASP:H	1:95:A:LEU:HG	11	0.1
(1,785)	1:67:A:ALA:HA	1:69:A:LEU:H	13	0.1
(1,784)	1:147:A:VAL:H	1:149:A:GLY:H	2	0.1
(1,766)	1:59:A:THR:HA	1:62:A:ALA:HB1	3	0.1
(1,766)	1:59:A:THR:HA	1:62:A:ALA:HB2	3	0.1
(1,766)	1:59:A:THR:HA	1:62:A:ALA:HB3	3	0.1
(1,755)	1:141:A:GLU:HB2	1:145:A:GLU:HG2	1	0.1
(1,755)	1:141:A:GLU:HB2	1:145:A:GLU:HG3	1	0.1
(1,755)	1:141:A:GLU:HB3	1:145:A:GLU:HG2	1	0.1
(1,755)	1:141:A:GLU:HB3	1:145:A:GLU:HG3	1	0.1
(1,752)	1:140:A:THR:HG21	1:141:A:GLU:H	9	0.1
(1,752)	1:140:A:THR:HG22	1:141:A:GLU:H	9	0.1
(1,752)	1:140:A:THR:HG23	1:141:A:GLU:H	9	0.1
(1,749)	1:138:A:GLY:HA2	1:140:A:THR:HG21	20	0.1
(1,749)	1:138:A:GLY:HA2	1:140:A:THR:HG22	20	0.1
(1,749)	1:138:A:GLY:HA2	1:140:A:THR:HG23	20	0.1
(1,722)	1:56:A:LEU:HG	1:57:A:ALA:HB1	3	0.1
(1,722)	1:56:A:LEU:HG	1:57:A:ALA:HB2	3	0.1
(1,722)	1:56:A:LEU:HG	1:57:A:ALA:HB3	3	0.1
(1,703)	1:60:A:ALA:H	1:60:A:ALA:HA	3	0.1
(1,703)	1:60:A:ALA:H	1:60:A:ALA:HA	11	0.1
(1,630)	1:86:A:THR:HG21	1:94:A:ARG:HG2	16	0.1
(1,630)	1:86:A:THR:HG21	1:94:A:ARG:HG3	16	0.1
(1,630)	1:86:A:THR:HG22	1:94:A:ARG:HG2	16	0.1
(1,630)	1:86:A:THR:HG22	1:94:A:ARG:HG3	16	0.1
(1,630)	1:86:A:THR:HG23	1:94:A:ARG:HG2	16	0.1
(1,630)	1:86:A:THR:HG23	1:94:A:ARG:HG3	16	0.1
(1,594)	1:139:A:ALA:HA	1:145:A:GLU:HG2	3	0.1
(1,594)	1:139:A:ALA:HA	1:145:A:GLU:HG3	3	0.1
(1,547)	1:61:A:LEU:HD21	1:64:A:LYS:HA	3	0.1
(1,547)	1:61:A:LEU:HD22	1:64:A:LYS:HA	3	0.1
(1,547)	1:61:A:LEU:HD23	1:64:A:LYS:HA	3	0.1
(1,547)	1:61:A:LEU:HD21	1:64:A:LYS:HA	9	0.1
(1,547)	1:61:A:LEU:HD22	1:64:A:LYS:HA	9	0.1
(1,547)	1:61:A:LEU:HD23	1:64:A:LYS:HA	9	0.1
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB1	9	0.1
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB2	9	0.1
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB3	9	0.1
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB1	9	0.1
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB2	9	0.1
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB3	9	0.1
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB1	9	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB2	9	0.1
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB3	9	0.1
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB1	9	0.1
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB2	9	0.1
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB3	9	0.1
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB1	9	0.1
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB2	9	0.1
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB3	9	0.1
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB1	9	0.1
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB2	9	0.1
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB3	9	0.1
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB1	13	0.1
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB2	13	0.1
(1,505)	1:82:A:VAL:HG11	1:98:A:ALA:HB3	13	0.1
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB1	13	0.1
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB2	13	0.1
(1,505)	1:82:A:VAL:HG12	1:98:A:ALA:HB3	13	0.1
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB1	13	0.1
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB2	13	0.1
(1,505)	1:82:A:VAL:HG13	1:98:A:ALA:HB3	13	0.1
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB1	13	0.1
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB2	13	0.1
(1,505)	1:82:A:VAL:HG21	1:98:A:ALA:HB3	13	0.1
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB1	13	0.1
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB2	13	0.1
(1,505)	1:82:A:VAL:HG22	1:98:A:ALA:HB3	13	0.1
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB1	13	0.1
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB2	13	0.1
(1,505)	1:82:A:VAL:HG23	1:98:A:ALA:HB3	13	0.1
(1,501)	1:87:A:PHE:HA	1:87:A:PHE:HE1	5	0.1
(1,501)	1:87:A:PHE:HA	1:87:A:PHE:HE2	5	0.1
(1,482)	1:43:A:ILE:HG21	1:44:A:GLU:H	14	0.1
(1,482)	1:43:A:ILE:HG22	1:44:A:GLU:H	14	0.1
(1,482)	1:43:A:ILE:HG23	1:44:A:GLU:H	14	0.1
(1,481)	1:43:A:ILE:HA	1:45:A:ARG:HB2	5	0.1
(1,481)	1:43:A:ILE:HA	1:45:A:ARG:HB3	5	0.1
(1,464)	1:61:A:LEU:HD11	1:62:A:ALA:H	7	0.1
(1,464)	1:61:A:LEU:HD12	1:62:A:ALA:H	7	0.1
(1,464)	1:61:A:LEU:HD13	1:62:A:ALA:H	7	0.1
(1,436)	1:90:A:ALA:HB1	1:148:A:LEU:H	1	0.1
(1,436)	1:90:A:ALA:HB2	1:148:A:LEU:H	1	0.1
(1,436)	1:90:A:ALA:HB3	1:148:A:LEU:H	1	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,436)	1:90:A:ALA:HB1	1:148:A:LEU:H	2	0.1
(1,436)	1:90:A:ALA:HB2	1:148:A:LEU:H	2	0.1
(1,436)	1:90:A:ALA:HB3	1:148:A:LEU:H	2	0.1
(1,423)	1:61:A:LEU:HD11	1:64:A:LYS:HE2	18	0.1
(1,423)	1:61:A:LEU:HD11	1:64:A:LYS:HE3	18	0.1
(1,423)	1:61:A:LEU:HD12	1:64:A:LYS:HE2	18	0.1
(1,423)	1:61:A:LEU:HD12	1:64:A:LYS:HE3	18	0.1
(1,423)	1:61:A:LEU:HD13	1:64:A:LYS:HE2	18	0.1
(1,423)	1:61:A:LEU:HD13	1:64:A:LYS:HE3	18	0.1
(1,410)	1:104:A:THR:HA	1:106:A:ALA:H	10	0.1
(1,321)	1:65:A:ASP:HB3	1:66:A:THR:H	14	0.1
(1,316)	1:41:A:GLN:HE21	1:42:A:LEU:H	13	0.1
(1,309)	1:146:A:ARG:HD2	1:147:A:VAL:H	14	0.1
(1,309)	1:146:A:ARG:HD3	1:147:A:VAL:H	14	0.1
(1,281)	1:115:A:SER:HA	1:116:A:MET:HA	20	0.1
(1,272)	1:94:A:ARG:H	1:124:A:HIS:HA	2	0.1
(1,207)	1:82:A:VAL:HG11	1:98:A:ALA:H	5	0.1
(1,207)	1:82:A:VAL:HG12	1:98:A:ALA:H	5	0.1
(1,207)	1:82:A:VAL:HG13	1:98:A:ALA:H	5	0.1
(1,207)	1:82:A:VAL:HG21	1:98:A:ALA:H	5	0.1
(1,207)	1:82:A:VAL:HG22	1:98:A:ALA:H	5	0.1
(1,207)	1:82:A:VAL:HG23	1:98:A:ALA:H	5	0.1
(1,182)	1:69:A:LEU:HD11	1:70:A:ASN:H	3	0.1
(1,182)	1:69:A:LEU:HD12	1:70:A:ASN:H	3	0.1
(1,182)	1:69:A:LEU:HD13	1:70:A:ASN:H	3	0.1
(1,158)	1:97:A:HIS:HB3	1:131:A:GLY:H	19	0.1
(1,136)	1:69:A:LEU:HD21	1:70:A:ASN:H	2	0.1
(1,136)	1:69:A:LEU:HD22	1:70:A:ASN:H	2	0.1
(1,136)	1:69:A:LEU:HD23	1:70:A:ASN:H	2	0.1
(1,136)	1:69:A:LEU:HD21	1:70:A:ASN:H	3	0.1
(1,136)	1:69:A:LEU:HD22	1:70:A:ASN:H	3	0.1
(1,136)	1:69:A:LEU:HD23	1:70:A:ASN:H	3	0.1
(1,136)	1:69:A:LEU:HD21	1:70:A:ASN:H	9	0.1
(1,136)	1:69:A:LEU:HD22	1:70:A:ASN:H	9	0.1
(1,136)	1:69:A:LEU:HD23	1:70:A:ASN:H	9	0.1
(1,134)	1:103:A:LEU:H	1:105:A:VAL:H	3	0.1
(1,129)	1:70:A:ASN:HB2	1:71:A:ARG:HE	10	0.1
(1,115)	1:94:A:ARG:HA	1:124:A:HIS:H	8	0.1
(1,114)	1:118:A:THR:H	1:119:A:GLU:HB2	8	0.1
(1,114)	1:118:A:THR:H	1:119:A:GLU:HB3	8	0.1
(1,86)	1:91:A:ARG:HG2	1:93:A:GLU:H	14	0.1
(1,86)	1:91:A:ARG:HG3	1:93:A:GLU:H	14	0.1

*Continued on next page...*

*Continued from previous page...*

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,65)	1:147:A:VAL:HG21	1:149:A:GLY:HA2	2	0.1
(1,65)	1:147:A:VAL:HG22	1:149:A:GLY:HA2	2	0.1
(1,65)	1:147:A:VAL:HG23	1:149:A:GLY:HA2	2	0.1
(1,65)	1:147:A:VAL:HG21	1:149:A:GLY:HA3	2	0.1
(1,65)	1:147:A:VAL:HG22	1:149:A:GLY:HA3	2	0.1
(1,65)	1:147:A:VAL:HG23	1:149:A:GLY:HA3	2	0.1
(1,60)	1:47:A:GLN:HE22	1:52:A:GLN:H	18	0.1
(1,57)	1:69:A:LEU:H	1:70:A:ASN:HB2	17	0.1
(1,45)	1:94:A:ARG:H	1:125:A:PHE:H	4	0.1
(1,30)	1:97:A:HIS:H	1:98:A:ALA:HA	1	0.1
(1,30)	1:97:A:HIS:H	1:98:A:ALA:HA	2	0.1
(1,30)	1:97:A:HIS:H	1:98:A:ALA:HA	5	0.1
(1,30)	1:97:A:HIS:H	1:98:A:ALA:HA	9	0.1
(1,30)	1:97:A:HIS:H	1:98:A:ALA:HA	14	0.1
(1,26)	1:144:A:ASP:HB2	1:145:A:GLU:HG2	11	0.1
(1,26)	1:144:A:ASP:HB2	1:145:A:GLU:HG3	11	0.1
(1,26)	1:144:A:ASP:HB3	1:145:A:GLU:HG2	11	0.1
(1,26)	1:144:A:ASP:HB3	1:145:A:GLU:HG3	11	0.1

## 10 Dihedral-angle violation analysis ⓘ

No dihedral-angle restraints found