



# Full wwPDB NMR Structure Validation Report ⓘ

Dec 24, 2024 – 10:55 PM EST

PDB ID : 2MOU  
BMRB ID : 19952  
Title : Solution structure of StAR-related lipid transfer domain protein 6 (STARD6)  
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Deposited on : 2014-05-05

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4.02b-467  
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)  
wwPDB-RCI : v\_1n\_11\_5\_13\_A (Berjanski et al., 2005)  
PANAV : Wang et al. (2010)  
wwPDB-ShiftChecker : v1.2  
BMRB Restraints Analysis : v1.2  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.40

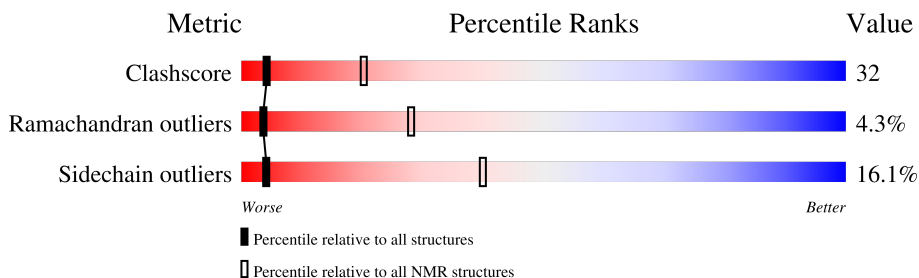
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*SOLUTION NMR*

The overall completeness of chemical shifts assignment is 84%.

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



Metric	Whole archive (#Entries)	NMR archive (#Entries)
Clashscore	210492	14027
Ramachandran outliers	207382	12486
Sidechain outliers	206894	12463

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

Mol	Chain	Length	Quality of chain
1	A	220	

## 2 Ensemble composition and analysis

This entry contains 20 models. Model 1 is the overall representative, medoid model (most similar to other models).

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

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:2-A:38, A:46-A:99, A:106-A:174, A:183-A:205 (183)	0.74	1

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

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

The models can be grouped into 3 clusters and 5 single-model clusters were found.

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

### 3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 3512 atoms, of which 1751 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called StAR-related lipid transfer protein 6.

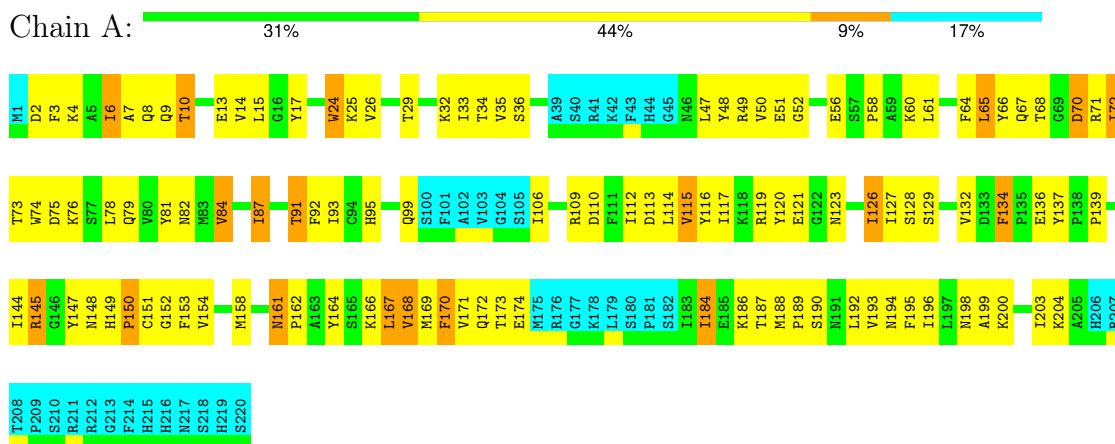
Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	A	220	3512	1115	1751	309	327	10	0

## 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.

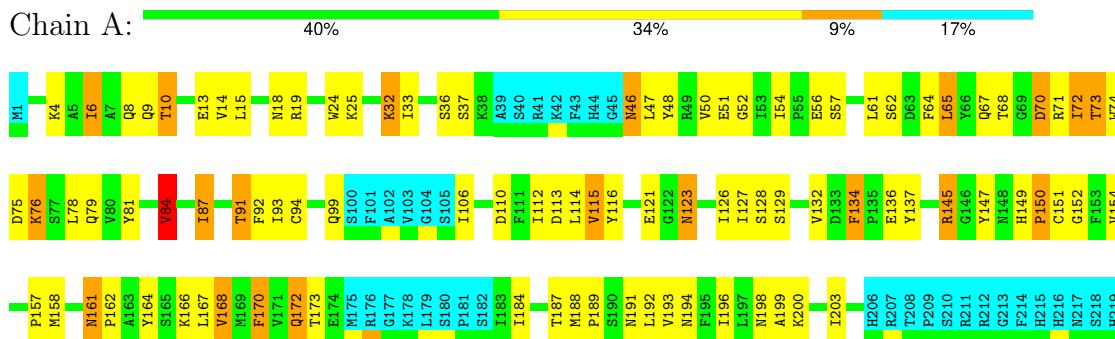
- Molecule 1: StAR-related lipid transfer protein 6



Colouring as in section 4.1 above.

#### 4.2.1 Score per residue for model 1 (medoid)

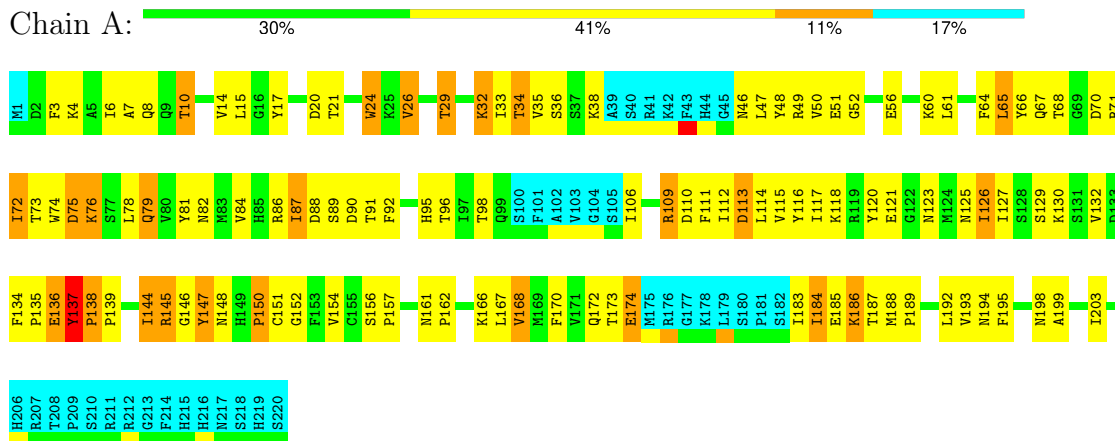
- Molecule 1: StAR-related lipid transfer protein 6



S220

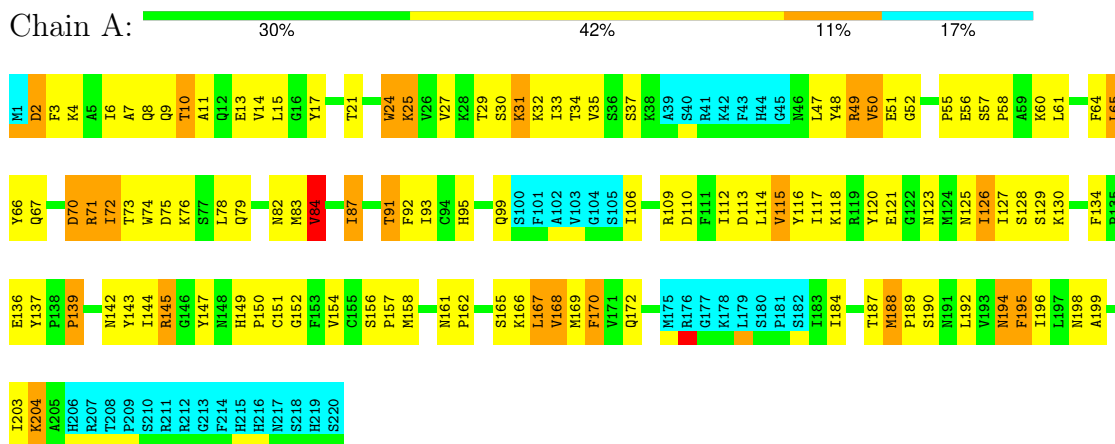
#### 4.2.2 Score per residue for model 2

- Molecule 1: StAR-related lipid transfer protein 6



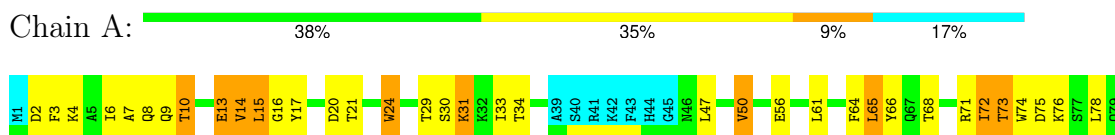
#### 4.2.3 Score per residue for model 3

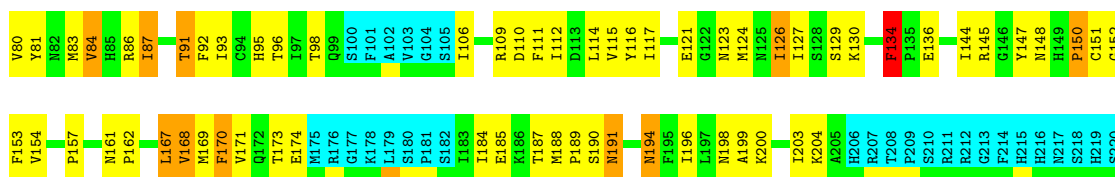
- Molecule 1: StAR-related lipid transfer protein 6



#### 4.2.4 Score per residue for model 4

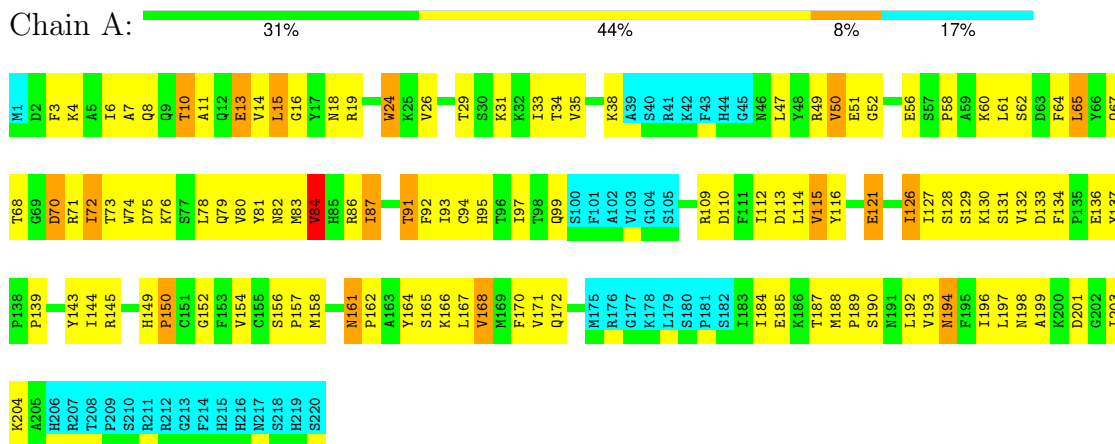
- Molecule 1: StAR-related lipid transfer protein 6





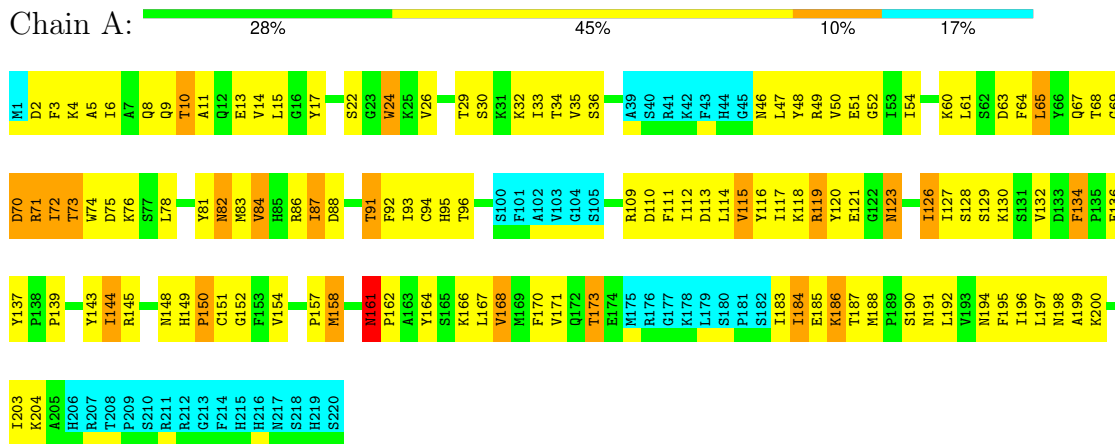
#### 4.2.5 Score per residue for model 5

- Molecule 1: StAR-related lipid transfer protein 6



#### 4.2.6 Score per residue for model 6

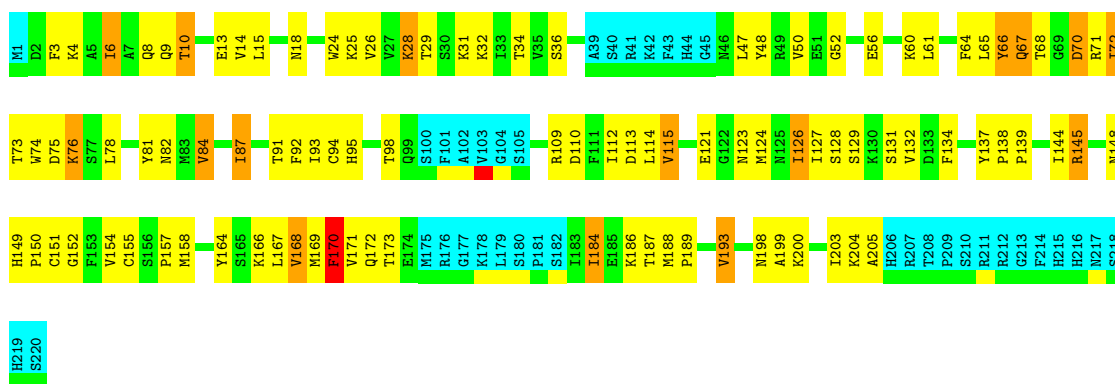
- Molecule 1: StAR-related lipid transfer protein 6



#### 4.2.7 Score per residue for model 7

- Molecule 1: StAR-related lipid transfer protein 6

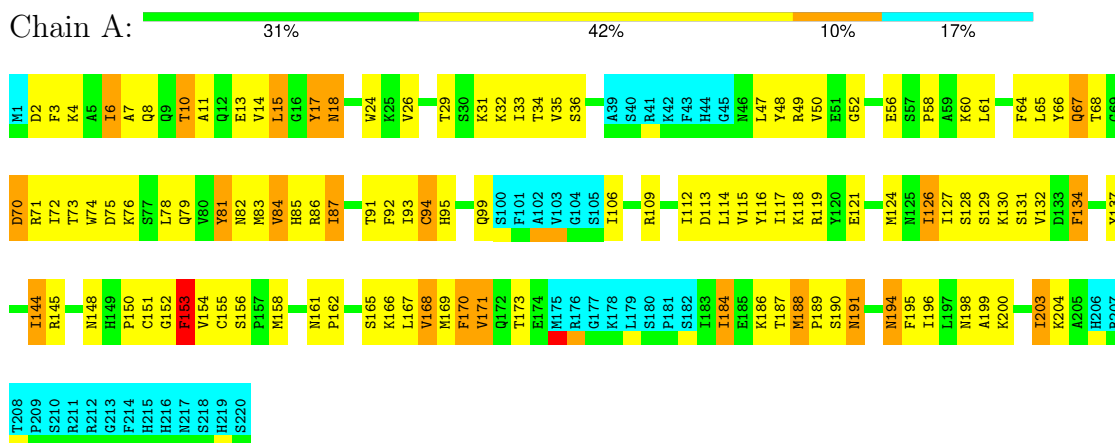






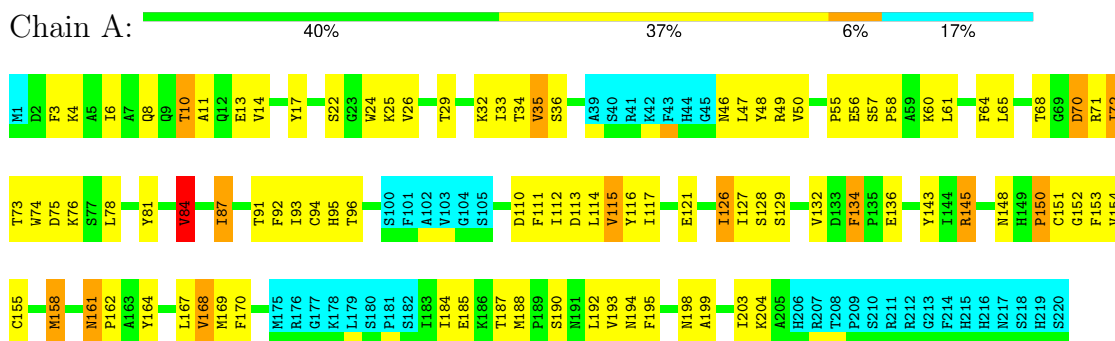
### 4.2.10 Score per residue for model 10

- Molecule 1: StAR-related lipid transfer protein 6



### 4.2.11 Score per residue for model 11

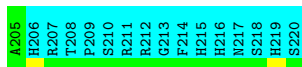
- Molecule 1: StAR-related lipid transfer protein 6



### 4.2.12 Score per residue for model 12

- Molecule 1: StAR-related lipid transfer protein 6

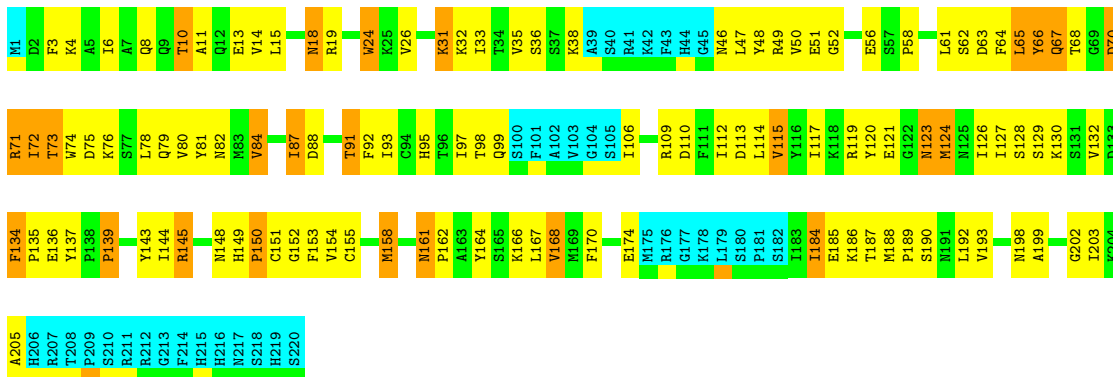




#### 4.2.13 Score per residue for model 13

- Molecule 1: StAR-related lipid transfer protein 6

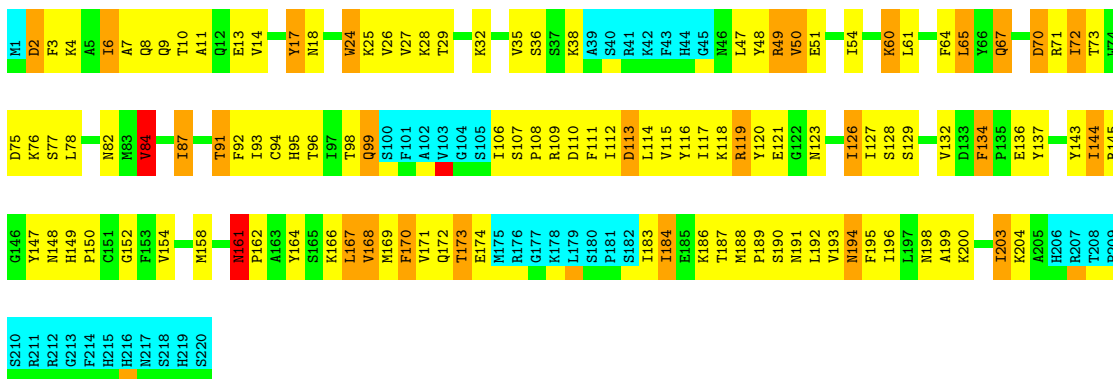
Chain A: 30% 41% 11% 17%



#### 4.2.14 Score per residue for model 14

- Molecule 1: StAR-related lipid transfer protein 6

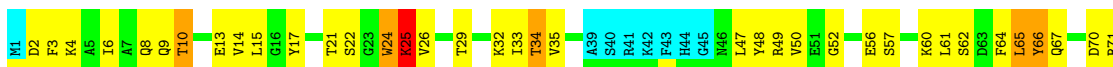
Chain A: 30% 41% 12% 17%

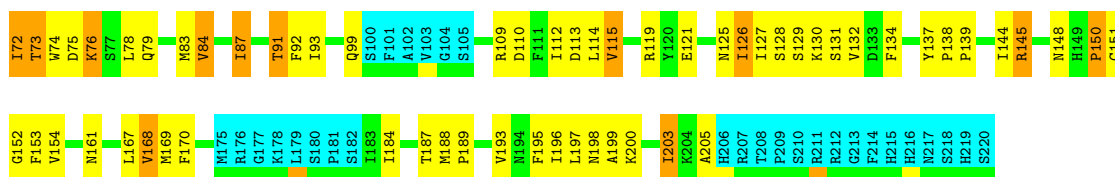


#### 4.2.15 Score per residue for model 15

- Molecule 1: StAR-related lipid transfer protein 6

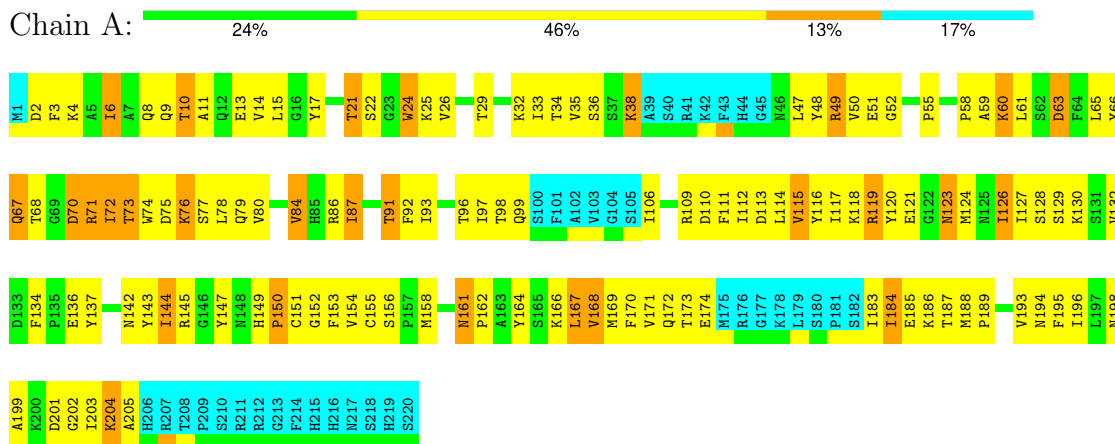
Chain A: 39% 36% 8% 17%





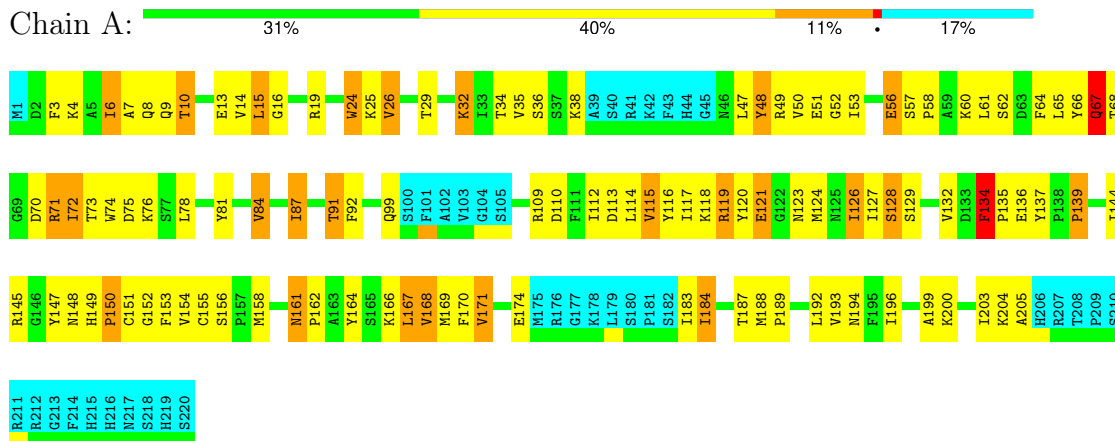
#### 4.2.16 Score per residue for model 16

- Molecule 1: StAR-related lipid transfer protein 6



#### 4.2.17 Score per residue for model 17

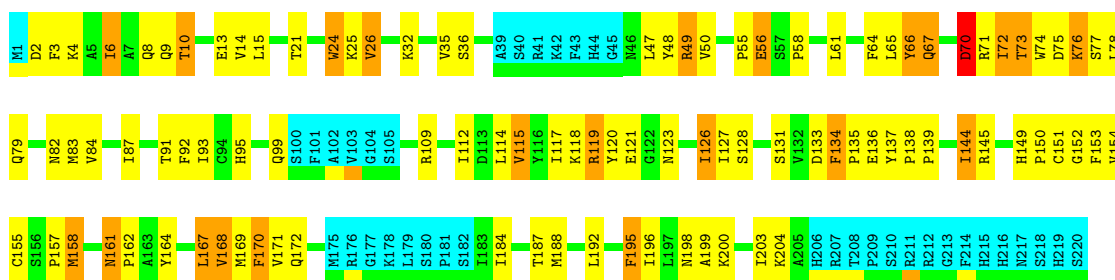
- Molecule 1: StAR-related lipid transfer protein 6



#### 4.2.18 Score per residue for model 18

- Molecule 1: StAR-related lipid transfer protein 6

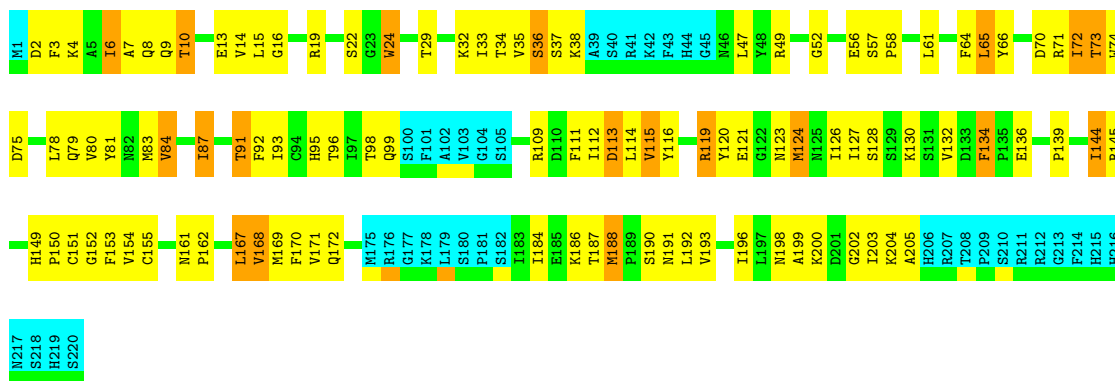




#### 4.2.19 Score per residue for model 19

- Molecule 1: StAR-related lipid transfer protein 6

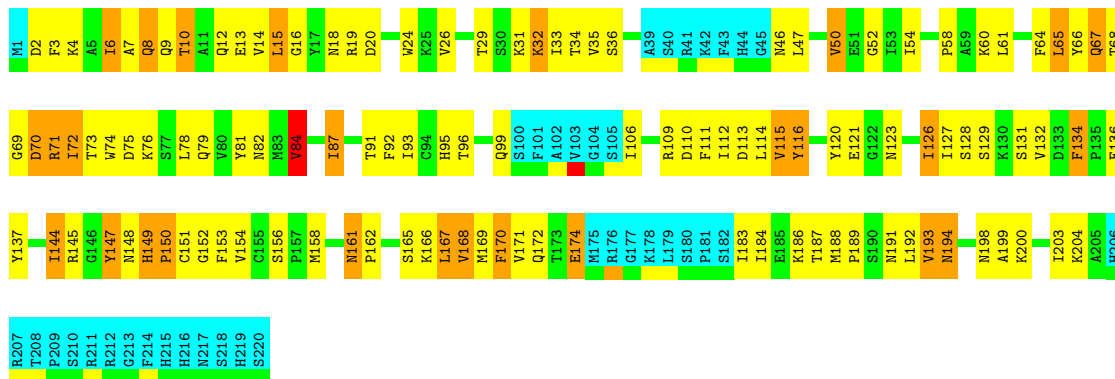
Chain A: 35% 40% 9% 17%



#### 4.2.20 Score per residue for model 20

- Molecule 1: StAR-related lipid transfer protein 6

Chain A: 30% 40% 12% 17%



## 5 Refinement protocol and experimental data overview

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

Of the 1000 calculated structures, 20 were deposited, based on the following criterion: *Lowest energy, restraint violations and Ramachandran parameters*.

The authors did not provide any information on software used for structure solution, optimization or 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	2434
Number of shifts mapped to atoms	2434
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	84%

## 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	0.50±0.03	0±1/1505 ( 0.0± 0.0%)	0.56±0.01	0±0/2041 ( 0.0± 0.0%)
All	All	0.50	4/30100 ( 0.0%)	0.56	0/40820 ( 0.0%)

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	0.4±0.6
All	All	0	8

All unique bond 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(Å)	Ideal(Å)	Models	
								Worst	Total
1	A	137	TYR	CE2-CZ	-8.06	1.28	1.38	2	1
1	A	137	TYR	CE1-CZ	7.59	1.48	1.38	2	1
1	A	153	PHE	CE1-CZ	5.70	1.48	1.37	10	1
1	A	134	PHE	CE2-CZ	5.68	1.48	1.37	17	1

There are no bond-angle outliers.

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	134	PHE	Sidechain	4
1	A	137	TYR	Sidechain	2
1	A	170	PHE	Sidechain	1
1	A	48	TYR	Sidechain	1

## 6.2 Too-close contacts

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	1470	1464	1461	94±20
All	All	29400	29280	29220	1875

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 32.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:56:GLU:HG3	1:A:203:ILE:HG12	1.10	1.23	2	1
1:A:72:ILE:HG22	1:A:78:LEU:HD13	0.99	1.34	17	15
1:A:147:TYR:HB2	1:A:174:GLU:HB3	0.95	1.39	12	2
1:A:112:ILE:HG12	1:A:145:ARG:HD2	0.94	1.38	3	3
1:A:184:ILE:HA	1:A:187:THR:HG22	0.92	1.42	13	20
1:A:61:LEU:HD23	1:A:203:ILE:HD13	0.92	1.41	13	19
1:A:147:TYR:HB3	1:A:174:GLU:HB3	0.89	1.42	8	4
1:A:117:ILE:HG12	1:A:127:ILE:HG22	0.87	1.46	10	9
1:A:114:LEU:HD23	1:A:130:LYS:HE2	0.86	1.46	3	2
1:A:171:VAL:HB	1:A:192:LEU:HD21	0.83	1.48	14	3
1:A:24:TRP:HB3	1:A:38:LYS:HB3	0.82	1.50	16	2
1:A:68:THR:HB	1:A:81:TYR:CD2	0.81	2.10	8	2
1:A:24:TRP:HA	1:A:38:LYS:HB3	0.81	1.50	12	2
1:A:17:TYR:CE1	1:A:49:ARG:HG3	0.81	2.11	10	2
1:A:25:LYS:HE3	1:A:25:LYS:HA	0.81	1.53	3	1
1:A:60:LYS:HE3	1:A:60:LYS:HA	0.81	1.50	16	3
1:A:139:PRO:HB3	1:A:145:ARG:HD3	0.80	1.53	17	2
1:A:3:PHE:HA	1:A:6:ILE:HD12	0.80	1.54	12	5
1:A:47:LEU:HD12	1:A:172:GLN:HB2	0.80	1.52	5	2
1:A:116:TYR:CE2	1:A:128:SER:HB3	0.80	2.12	20	1
1:A:68:THR:HA	1:A:71:ARG:NH2	0.79	1.92	6	1
1:A:110:ASP:HB2	1:A:143:TYR:HB3	0.79	1.53	14	8
1:A:74:TRP:CZ3	1:A:198:ASN:HB3	0.79	2.13	8	3
1:A:33:ILE:HG22	1:A:52:GLY:HA3	0.78	1.56	5	11
1:A:3:PHE:HA	1:A:6:ILE:HD11	0.78	1.54	20	8
1:A:74:TRP:HZ3	1:A:198:ASN:HB3	0.77	1.37	8	2
1:A:188:MET:HB2	1:A:189:PRO:HD3	0.77	1.54	13	12

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:14:VAL:HG23	1:A:170:PHE:CE2	0.77	2.14	19	6
1:A:56:GLU:HG3	1:A:203:ILE:HG13	0.77	1.57	17	1
1:A:24:TRP:HB3	1:A:38:LYS:HB2	0.76	1.58	5	3
1:A:7:ALA:HB1	1:A:116:TYR:HB2	0.76	1.57	4	8
1:A:14:VAL:HG23	1:A:170:PHE:HD1	0.76	1.38	8	1
1:A:35:VAL:HG11	1:A:192:LEU:HD13	0.76	1.58	5	3
1:A:35:VAL:HG22	1:A:50:VAL:HG13	0.76	1.56	20	2
1:A:26:VAL:HG21	1:A:29:THR:HG23	0.75	1.56	12	3
1:A:134:PHE:CE2	1:A:136:GLU:HB3	0.75	2.16	14	9
1:A:156:SER:HB2	1:A:166:LYS:HB3	0.75	1.59	20	5
1:A:147:TYR:HB3	1:A:174:GLU:HG3	0.74	1.59	2	1
1:A:71:ARG:HA	1:A:74:TRP:CZ2	0.74	2.17	15	10
1:A:29:THR:HG22	1:A:34:THR:HA	0.74	1.59	20	10
1:A:71:ARG:O	1:A:75:ASP:HB2	0.74	1.83	16	16
1:A:79:GLN:HG2	1:A:99:GLN:HG3	0.74	1.60	13	6
1:A:199:ALA:O	1:A:203:ILE:HB	0.74	1.82	10	20
1:A:21:THR:HB	1:A:24:TRP:CZ2	0.74	2.17	16	2
1:A:74:TRP:HZ3	1:A:198:ASN:HB2	0.73	1.42	2	4
1:A:112:ILE:HG13	1:A:137:TYR:HA	0.73	1.59	12	3
1:A:110:ASP:O	1:A:145:ARG:HA	0.73	1.83	1	16
1:A:86:ARG:HG2	1:A:92:PHE:HD2	0.72	1.44	6	3
1:A:14:VAL:HG23	1:A:170:PHE:CD1	0.72	2.18	8	1
1:A:35:VAL:HG22	1:A:50:VAL:HG12	0.72	1.61	16	2
1:A:113:ASP:HB3	1:A:129:SER:HB3	0.71	1.60	17	7
1:A:96:THR:HB	1:A:111:PHE:HB3	0.71	1.62	2	3
1:A:82:ASN:HB2	1:A:95:HIS:HB3	0.71	1.62	5	7
1:A:71:ARG:HA	1:A:74:TRP:CE2	0.71	2.20	19	10
1:A:33:ILE:HD12	1:A:193:VAL:HB	0.71	1.62	2	5
1:A:71:ARG:HH21	1:A:81:TYR:HB3	0.70	1.44	6	1
1:A:60:LYS:HE2	1:A:63:ASP:HB3	0.70	1.61	12	1
1:A:14:VAL:HG21	1:A:152:GLY:N	0.70	2.01	17	16
1:A:64:PHE:HD2	1:A:74:TRP:CZ2	0.70	2.04	8	5
1:A:83:MET:SD	1:A:86:ARG:HD3	0.70	2.27	9	4
1:A:82:ASN:HB3	1:A:95:HIS:HB3	0.70	1.64	2	2
1:A:117:ILE:HG13	1:A:127:ILE:HG22	0.69	1.63	2	4
1:A:21:THR:HB	1:A:24:TRP:CH2	0.69	2.23	3	1
1:A:126:ILE:HB	1:A:154:VAL:HG12	0.69	1.65	5	15
1:A:94:CYS:O	1:A:112:ILE:HA	0.69	1.88	10	5
1:A:51:GLU:HG3	1:A:166:LYS:HD2	0.69	1.63	2	8
1:A:64:PHE:O	1:A:71:ARG:HB3	0.68	1.89	17	5
1:A:56:GLU:HG2	1:A:203:ILE:HG13	0.68	1.64	12	6

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:197:LEU:HD12	1:A:198:ASN:N	0.68	2.04	8	2
1:A:10:THR:HG21	1:A:130:LYS:NZ	0.68	2.03	2	3
1:A:24:TRP:HZ3	1:A:49:ARG:HD3	0.68	1.49	8	2
1:A:116:TYR:HE2	1:A:118:LYS:HD3	0.68	1.49	2	1
1:A:48:TYR:HB3	1:A:192:LEU:HD11	0.67	1.65	8	1
1:A:130:LYS:HE2	1:A:150:PRO:HG3	0.67	1.64	5	3
1:A:109:ARG:CZ	1:A:146:GLY:HA2	0.67	2.19	2	1
1:A:49:ARG:CD	1:A:170:PHE:HB3	0.67	2.20	19	1
1:A:190:SER:O	1:A:194:ASN:HB2	0.67	1.88	9	7
1:A:112:ILE:CG1	1:A:145:ARG:HD2	0.67	2.20	12	2
1:A:116:TYR:CE2	1:A:118:LYS:HD3	0.67	2.25	2	1
1:A:68:THR:HB	1:A:81:TYR:CD1	0.67	2.25	5	5
1:A:68:THR:HB	1:A:81:TYR:HB3	0.67	1.67	10	1
1:A:61:LEU:HA	1:A:64:PHE:CD1	0.66	2.25	8	6
1:A:152:GLY:O	1:A:169:MET:HG3	0.66	1.90	11	9
1:A:56:GLU:HG3	1:A:203:ILE:CG1	0.66	2.11	2	2
1:A:32:LYS:HA	1:A:32:LYS:HE2	0.66	1.67	8	1
1:A:72:ILE:HG22	1:A:78:LEU:HB3	0.66	1.67	10	1
1:A:127:ILE:HG13	1:A:127:ILE:O	0.66	1.89	8	18
1:A:61:LEU:O	1:A:65:LEU:HD12	0.66	1.91	14	10
1:A:33:ILE:HG21	1:A:196:ILE:HG21	0.66	1.65	5	4
1:A:75:ASP:HB3	1:A:78:LEU:HB2	0.66	1.67	8	13
1:A:47:LEU:HD21	1:A:170:PHE:CD1	0.66	2.26	10	3
1:A:47:LEU:HD11	1:A:170:PHE:HE2	0.66	1.51	8	1
1:A:183:ILE:HA	1:A:186:LYS:HE2	0.65	1.65	6	1
1:A:137:TYR:HE1	1:A:145:ARG:HG3	0.65	1.51	2	1
1:A:116:TYR:HE2	1:A:118:LYS:HE2	0.65	1.50	12	1
1:A:24:TRP:CZ3	1:A:49:ARG:HD3	0.65	2.26	12	4
1:A:80:VAL:HB	1:A:97:ILE:HD13	0.65	1.69	5	2
1:A:4:LYS:O	1:A:8:GLN:HB3	0.65	1.90	9	2
1:A:76:LYS:HG2	1:A:198:ASN:HB3	0.65	1.67	6	1
1:A:151:CYS:HA	1:A:170:PHE:CE1	0.65	2.28	8	1
1:A:148:ASN:HB3	1:A:151:CYS:SG	0.64	2.32	11	11
1:A:71:ARG:NH2	1:A:81:TYR:HB3	0.64	2.07	6	1
1:A:14:VAL:HG21	1:A:152:GLY:HA3	0.64	1.69	10	1
1:A:113:ASP:HB3	1:A:129:SER:HB2	0.64	1.68	13	6
1:A:71:ARG:HG3	1:A:72:ILE:N	0.64	2.08	19	9
1:A:69:GLY:O	1:A:70:ASP:HB2	0.64	1.92	20	1
1:A:161:ASN:OD1	1:A:162:PRO:HD3	0.64	1.92	14	5
1:A:137:TYR:CE1	1:A:145:ARG:HG3	0.64	2.28	2	1
1:A:154:VAL:HG23	1:A:168:VAL:HG13	0.64	1.69	5	15

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:61:LEU:HD23	1:A:203:ILE:CD1	0.64	2.21	16	13
1:A:134:PHE:CZ	1:A:136:GLU:HB3	0.64	2.28	17	6
1:A:14:VAL:HG23	1:A:170:PHE:CD2	0.63	2.28	12	4
1:A:58:PRO:HD3	1:A:165:SER:HB3	0.63	1.70	20	1
1:A:195:PHE:HA	1:A:198:ASN:OD1	0.63	1.94	18	3
1:A:24:TRP:CB	1:A:38:LYS:HB2	0.63	2.22	5	3
1:A:76:LYS:HD2	1:A:198:ASN:HB3	0.63	1.69	16	1
1:A:134:PHE:O	1:A:137:TYR:HB3	0.63	1.94	2	4
1:A:70:ASP:O	1:A:73:THR:HG22	0.63	1.94	5	19
1:A:112:ILE:HG21	1:A:134:PHE:CE1	0.62	2.29	10	15
1:A:151:CYS:HB3	1:A:170:PHE:O	0.62	1.94	10	5
1:A:147:TYR:CB	1:A:174:GLU:HG3	0.62	2.24	2	1
1:A:47:LEU:HG	1:A:172:GLN:HB2	0.62	1.71	14	2
1:A:10:THR:HG21	1:A:130:LYS:HZ2	0.62	1.53	2	2
1:A:190:SER:O	1:A:194:ASN:HB3	0.62	1.93	5	3
1:A:50:VAL:HG22	1:A:169:MET:HB3	0.62	1.72	3	1
1:A:14:VAL:O	1:A:17:TYR:HD2	0.62	1.77	10	2
1:A:134:PHE:CE2	1:A:136:GLU:HG2	0.62	2.29	2	1
1:A:64:PHE:CD2	1:A:74:TRP:CZ2	0.62	2.88	8	5
1:A:35:VAL:HA	1:A:49:ARG:O	0.62	1.95	14	7
1:A:6:ILE:O	1:A:10:THR:HB	0.62	1.95	20	11
1:A:10:THR:OG1	1:A:150:PRO:HB3	0.61	1.95	5	11
1:A:49:ARG:HG3	1:A:170:PHE:CE2	0.61	2.30	13	2
1:A:14:VAL:CG2	1:A:151:CYS:HA	0.61	2.26	16	1
1:A:84:VAL:HG23	1:A:93:ILE:O	0.61	1.94	6	15
1:A:109:ARG:HG3	1:A:144:ILE:O	0.61	1.96	4	10
1:A:96:THR:HB	1:A:111:PHE:HB2	0.61	1.70	20	6
1:A:151:CYS:HB2	1:A:170:PHE:O	0.61	1.96	17	10
1:A:158:MET:HB2	1:A:164:TYR:O	0.61	1.96	16	12
1:A:80:VAL:CG1	1:A:97:ILE:HB	0.61	2.26	13	1
1:A:25:LYS:HA	1:A:25:LYS:CE	0.61	2.26	3	1
1:A:161:ASN:HB3	1:A:162:PRO:HD3	0.61	1.71	20	5
1:A:60:LYS:O	1:A:60:LYS:HE3	0.61	1.96	14	1
1:A:69:GLY:N	1:A:71:ARG:HH12	0.60	1.94	12	1
1:A:58:PRO:HD3	1:A:165:SER:HB2	0.60	1.72	5	3
1:A:32:LYS:O	1:A:52:GLY:HA2	0.60	1.96	9	7
1:A:47:LEU:HD23	1:A:48:TYR:N	0.60	2.11	1	14
1:A:161:ASN:HB3	1:A:162:PRO:CD	0.60	2.25	5	5
1:A:189:PRO:O	1:A:193:VAL:HG13	0.60	1.96	8	9
1:A:166:LYS:HG3	1:A:168:VAL:HG12	0.60	1.74	3	7
1:A:26:VAL:HA	1:A:36:SER:HA	0.60	1.73	13	13

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:194:ASN:HA	1:A:197:LEU:HG	0.60	1.74	8	1
1:A:184:ILE:HA	1:A:187:THR:CG2	0.59	2.27	6	17
1:A:170:PHE:CD1	1:A:170:PHE:C	0.59	2.76	7	1
1:A:67:GLN:HG3	1:A:94:CYS:SG	0.59	2.36	14	1
1:A:68:THR:OG1	1:A:81:TYR:HB2	0.59	1.97	13	4
1:A:114:LEU:O	1:A:129:SER:HA	0.59	1.97	11	15
1:A:188:MET:O	1:A:192:LEU:HG	0.59	1.96	3	5
1:A:200:LYS:O	1:A:204:LYS:HG2	0.59	1.97	17	1
1:A:151:CYS:SG	1:A:171:VAL:HA	0.59	2.38	18	1
1:A:71:ARG:NH1	1:A:72:ILE:HD13	0.59	2.13	6	1
1:A:3:PHE:HA	1:A:6:ILE:CD1	0.59	2.27	12	8
1:A:14:VAL:HA	1:A:17:TYR:CD2	0.59	2.33	15	7
1:A:47:LEU:HD21	1:A:170:PHE:HD1	0.59	1.57	20	2
1:A:87:ILE:HG12	1:A:91:THR:O	0.59	1.98	11	17
1:A:47:LEU:HD23	1:A:48:TYR:H	0.59	1.57	14	1
1:A:64:PHE:CE1	1:A:65:LEU:HB3	0.59	2.33	1	3
1:A:64:PHE:CE2	1:A:199:ALA:HA	0.59	2.32	18	6
1:A:71:ARG:HA	1:A:74:TRP:NE1	0.59	2.13	9	2
1:A:56:GLU:HG2	1:A:203:ILE:CG1	0.59	2.28	13	7
1:A:74:TRP:CZ3	1:A:198:ASN:HB2	0.59	2.33	18	5
1:A:193:VAL:O	1:A:197:LEU:HD23	0.58	1.98	5	1
1:A:149:HIS:HB3	1:A:172:GLN:HB3	0.58	1.75	16	2
1:A:84:VAL:HG11	1:A:137:TYR:HB2	0.58	1.75	20	2
1:A:9:GLN:O	1:A:13:GLU:HG3	0.58	1.99	1	7
1:A:154:VAL:CG2	1:A:168:VAL:HG13	0.58	2.28	12	18
1:A:58:PRO:HA	1:A:61:LEU:HD12	0.58	1.75	5	4
1:A:75:ASP:OD2	1:A:78:LEU:HG	0.58	1.97	15	2
1:A:16:GLY:HA2	1:A:19:ARG:NE	0.58	2.13	20	4
1:A:30:SER:HB3	1:A:33:ILE:HG12	0.58	1.76	6	2
1:A:55:PRO:HA	1:A:164:TYR:HA	0.58	1.75	16	1
1:A:196:ILE:O	1:A:200:LYS:HG2	0.58	1.99	4	6
1:A:72:ILE:H	1:A:72:ILE:HD13	0.58	1.59	18	13
1:A:184:ILE:CA	1:A:187:THR:HG22	0.58	2.25	13	12
1:A:112:ILE:CG2	1:A:134:PHE:HE1	0.58	2.10	17	10
1:A:75:ASP:CG	1:A:78:LEU:HB2	0.58	2.19	2	2
1:A:119:ARG:HD2	1:A:119:ARG:O	0.58	1.98	14	2
1:A:80:VAL:O	1:A:96:THR:HA	0.57	1.98	19	3
1:A:116:TYR:CE1	1:A:118:LYS:HB2	0.57	2.34	16	1
1:A:61:LEU:HA	1:A:64:PHE:CE1	0.57	2.33	20	5
1:A:47:LEU:HD11	1:A:170:PHE:CE2	0.57	2.34	8	1
1:A:48:TYR:HB3	1:A:192:LEU:CD1	0.57	2.29	8	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:61:LEU:HA	1:A:64:PHE:CD2	0.57	2.34	6	7
1:A:109:ARG:HG2	1:A:144:ILE:O	0.57	1.99	19	2
1:A:76:LYS:HG2	1:A:198:ASN:OD1	0.57	2.00	4	2
1:A:187:THR:O	1:A:191:ASN:HB2	0.57	2.00	10	4
1:A:24:TRP:CB	1:A:38:LYS:HB3	0.57	2.30	17	1
1:A:131:SER:HB3	1:A:148:ASN:N	0.57	2.15	20	1
1:A:72:ILE:HD12	1:A:81:TYR:HB3	0.57	1.76	19	3
1:A:71:ARG:O	1:A:75:ASP:HB3	0.57	2.00	2	2
1:A:7:ALA:HA	1:A:130:LYS:HE3	0.57	1.75	2	1
1:A:76:LYS:HD2	1:A:194:ASN:OD1	0.57	1.99	8	1
1:A:32:LYS:HE3	1:A:53:ILE:HB	0.57	1.77	12	1
1:A:49:ARG:HB2	1:A:170:PHE:CE1	0.57	2.35	14	1
1:A:114:LEU:CD2	1:A:130:LYS:HE2	0.56	2.30	2	1
1:A:30:SER:O	1:A:31:LYS:HG2	0.56	2.00	3	1
1:A:35:VAL:CG1	1:A:192:LEU:HD13	0.56	2.30	20	2
1:A:14:VAL:HG11	1:A:152:GLY:HA3	0.56	1.77	4	2
1:A:75:ASP:CB	1:A:78:LEU:HB2	0.56	2.31	10	4
1:A:71:ARG:NE	1:A:71:ARG:H	0.56	1.98	13	1
1:A:156:SER:HB3	1:A:166:LYS:HB3	0.56	1.78	16	3
1:A:2:ASP:O	1:A:6:ILE:HD13	0.56	2.01	20	5
1:A:17:TYR:HE1	1:A:49:ARG:HG3	0.56	1.56	10	2
1:A:3:PHE:HB2	1:A:87:ILE:HG21	0.56	1.77	6	5
1:A:112:ILE:HB	1:A:137:TYR:HD2	0.56	1.58	13	1
1:A:82:ASN:HB2	1:A:95:HIS:HD2	0.56	1.61	20	1
1:A:118:LYS:HB3	1:A:126:ILE:HG23	0.56	1.77	12	2
1:A:158:MET:HA	1:A:158:MET:CE	0.56	2.31	5	1
1:A:4:LYS:HE3	1:A:116:TYR:HE1	0.56	1.61	12	1
1:A:62:SER:OG	1:A:125:ASN:HB3	0.56	2.00	15	1
1:A:61:LEU:O	1:A:65:LEU:HD22	0.56	2.00	17	1
1:A:47:LEU:HD21	1:A:170:PHE:HB3	0.55	1.78	5	1
1:A:66:TYR:O	1:A:67:GLN:HG2	0.55	2.02	7	1
1:A:61:LEU:HD23	1:A:203:ILE:HD11	0.55	1.78	17	4
1:A:61:LEU:HA	1:A:64:PHE:CE2	0.55	2.36	12	5
1:A:195:PHE:HA	1:A:198:ASN:ND2	0.55	2.15	15	3
1:A:36:SER:OG	1:A:49:ARG:HB3	0.55	2.02	14	1
1:A:139:PRO:HA	1:A:145:ARG:NH2	0.55	2.17	12	3
1:A:187:THR:HG23	1:A:188:MET:HE2	0.55	1.76	17	1
1:A:4:LYS:O	1:A:8:GLN:HB2	0.55	2.02	15	17
1:A:167:LEU:HD12	1:A:196:ILE:HG12	0.55	1.78	14	4
1:A:16:GLY:O	1:A:20:ASP:HB2	0.55	2.01	20	2
1:A:58:PRO:HB3	1:A:155:CYS:SG	0.55	2.42	16	6

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:14:VAL:HG21	1:A:151:CYS:HA	0.55	1.77	16	1
1:A:50:VAL:HG13	1:A:169:MET:HB3	0.55	1.78	12	2
1:A:123:ASN:O	1:A:157:PRO:HD2	0.55	2.02	4	9
1:A:112:ILE:HD11	1:A:145:ARG:HH21	0.55	1.62	17	1
1:A:95:HIS:HA	1:A:112:ILE:HD13	0.55	1.79	11	7
1:A:126:ILE:HA	1:A:153:PHE:O	0.55	2.01	4	3
1:A:94:CYS:SG	1:A:115:VAL:HG11	0.54	2.41	7	3
1:A:111:PHE:CE1	1:A:113:ASP:HB2	0.54	2.37	19	1
1:A:133:ASP:HA	1:A:137:TYR:CG	0.54	2.38	18	3
1:A:110:ASP:CB	1:A:143:TYR:HB3	0.54	2.32	12	2
1:A:115:VAL:HA	1:A:128:SER:O	0.54	2.02	15	13
1:A:120:TYR:CB	1:A:123:ASN:HB3	0.54	2.33	2	7
1:A:9:GLN:O	1:A:13:GLU:HG2	0.54	2.03	8	7
1:A:54:ILE:HG12	1:A:167:LEU:HB2	0.54	1.80	14	1
1:A:65:LEU:HD22	1:A:65:LEU:O	0.54	2.03	8	8
1:A:60:LYS:HE3	1:A:64:PHE:HB3	0.54	1.80	8	3
1:A:64:PHE:HA	1:A:70:ASP:OD1	0.54	2.03	14	2
1:A:53:ILE:HG12	1:A:158:MET:SD	0.54	2.43	17	1
1:A:82:ASN:HB2	1:A:95:HIS:CD2	0.54	2.38	20	2
1:A:134:PHE:HB2	1:A:135:PRO:HD2	0.54	1.81	13	4
1:A:2:ASP:O	1:A:6:ILE:HD12	0.53	2.03	3	3
1:A:49:ARG:HD3	1:A:170:PHE:HB3	0.53	1.80	19	1
1:A:116:TYR:CD1	1:A:116:TYR:N	0.53	2.75	20	1
1:A:92:PHE:O	1:A:114:LEU:HD12	0.53	2.03	4	20
1:A:112:ILE:O	1:A:131:SER:HA	0.53	2.03	18	3
1:A:26:VAL:CG2	1:A:29:THR:HG23	0.53	2.32	11	2
1:A:47:LEU:HD11	1:A:170:PHE:CE1	0.53	2.38	12	2
1:A:35:VAL:HG22	1:A:50:VAL:CG1	0.53	2.31	20	1
1:A:126:ILE:CG1	1:A:154:VAL:HG12	0.53	2.34	3	9
1:A:4:LYS:HD2	1:A:88:ASP:CB	0.53	2.33	13	1
1:A:112:ILE:HG21	1:A:134:PHE:HE1	0.53	1.63	17	10
1:A:106:ILE:HG23	1:A:109:ARG:NH2	0.53	2.19	12	1
1:A:116:TYR:CE1	1:A:118:LYS:HE2	0.53	2.39	17	1
1:A:12:GLN:HA	1:A:15:LEU:HB3	0.53	1.79	8	2
1:A:116:TYR:CE2	1:A:118:LYS:HE2	0.53	2.36	12	1
1:A:24:TRP:CA	1:A:38:LYS:HB3	0.53	2.34	2	1
1:A:50:VAL:HB	1:A:192:LEU:HB3	0.53	1.80	6	5
1:A:47:LEU:HG	1:A:171:VAL:O	0.53	2.04	20	5
1:A:14:VAL:HA	1:A:170:PHE:HE2	0.53	1.64	20	2
1:A:66:TYR:O	1:A:67:GLN:HG3	0.53	2.03	20	2
1:A:14:VAL:O	1:A:17:TYR:CD2	0.53	2.61	10	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:10:THR:CG2	1:A:116:TYR:CZ	0.53	2.91	20	1
1:A:93:ILE:HD13	1:A:114:LEU:HB2	0.52	1.81	20	1
1:A:3:PHE:HD1	1:A:114:LEU:HD22	0.52	1.65	2	2
1:A:98:THR:HB	1:A:109:ARG:HB3	0.52	1.80	14	3
1:A:35:VAL:HG12	1:A:50:VAL:HG12	0.52	1.81	3	1
1:A:183:ILE:HA	1:A:186:LYS:CE	0.52	2.34	6	1
1:A:96:THR:O	1:A:111:PHE:HB3	0.52	2.03	19	2
1:A:16:GLY:HA2	1:A:19:ARG:HD3	0.52	1.81	17	1
1:A:15:LEU:HG	1:A:18:ASN:OD1	0.52	2.03	10	2
1:A:91:THR:HG23	1:A:116:TYR:HD2	0.52	1.65	16	2
1:A:61:LEU:HD11	1:A:165:SER:OG	0.52	2.04	20	1
1:A:109:ARG:HD2	1:A:144:ILE:HG23	0.52	1.82	2	1
1:A:11:ALA:HA	1:A:128:SER:CB	0.52	2.34	10	7
1:A:14:VAL:HG23	1:A:170:PHE:HE2	0.52	1.63	10	1
1:A:7:ALA:HB2	1:A:114:LEU:HD21	0.52	1.82	19	2
1:A:116:TYR:CE2	1:A:128:SER:CB	0.52	2.91	20	1
1:A:149:HIS:O	1:A:151:CYS:N	0.52	2.43	16	10
1:A:98:THR:HB	1:A:109:ARG:O	0.51	2.04	7	3
1:A:110:ASP:HB2	1:A:143:TYR:CB	0.51	2.31	14	1
1:A:14:VAL:HG21	1:A:152:GLY:CA	0.51	2.35	10	6
1:A:109:ARG:NE	1:A:146:GLY:HA2	0.51	2.20	2	1
1:A:139:PRO:HG3	1:A:145:ARG:HB2	0.51	1.83	17	3
1:A:112:ILE:HB	1:A:137:TYR:CD2	0.51	2.41	13	1
1:A:172:GLN:HE21	1:A:172:GLN:N	0.51	2.03	1	1
1:A:5:ALA:O	1:A:9:GLN:HG2	0.51	2.06	6	1
1:A:47:LEU:HD21	1:A:170:PHE:CD2	0.51	2.40	8	1
1:A:72:ILE:HD12	1:A:73:THR:N	0.51	2.21	10	1
1:A:49:ARG:HD3	1:A:170:PHE:CD2	0.51	2.41	3	1
1:A:27:VAL:O	1:A:28:LYS:HD2	0.51	2.05	14	1
1:A:76:LYS:HG3	1:A:198:ASN:OD1	0.51	2.06	7	2
1:A:35:VAL:HG22	1:A:50:VAL:HG23	0.51	1.83	13	4
1:A:127:ILE:CG1	1:A:153:PHE:HB3	0.51	2.35	17	2
1:A:109:ARG:HG2	1:A:144:ILE:HG23	0.51	1.82	5	4
1:A:50:VAL:CB	1:A:192:LEU:HB3	0.51	2.34	6	2
1:A:200:LYS:O	1:A:204:LYS:HG3	0.51	2.06	18	5
1:A:24:TRP:C	1:A:24:TRP:CD1	0.51	2.84	6	8
1:A:47:LEU:HD11	1:A:170:PHE:HE1	0.51	1.66	12	2
1:A:110:ASP:O	1:A:145:ARG:HD3	0.51	2.06	12	1
1:A:11:ALA:HA	1:A:128:SER:OG	0.51	2.06	13	2
1:A:120:TYR:HB3	1:A:123:ASN:HB3	0.51	1.81	12	5
1:A:196:ILE:O	1:A:199:ALA:HB3	0.51	2.06	8	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:80:VAL:HG12	1:A:97:ILE:HB	0.51	1.82	13	1
1:A:71:ARG:HD2	1:A:81:TYR:HD2	0.50	1.66	10	1
1:A:69:GLY:H	1:A:71:ARG:NH2	0.50	2.04	12	1
1:A:14:VAL:HG22	1:A:170:PHE:CD1	0.50	2.42	1	3
1:A:24:TRP:CH2	1:A:49:ARG:HD3	0.50	2.42	2	2
1:A:114:LEU:HD23	1:A:130:LYS:CE	0.50	2.36	19	2
1:A:50:VAL:HG23	1:A:169:MET:HB3	0.50	1.83	16	1
1:A:95:HIS:HA	1:A:111:PHE:O	0.50	2.05	14	5
1:A:116:TYR:CE2	1:A:118:LYS:HB2	0.50	2.41	14	3
1:A:107:SER:HB3	1:A:108:PRO:HD2	0.50	1.83	14	1
1:A:29:THR:HB	1:A:34:THR:HA	0.50	1.83	2	2
1:A:3:PHE:CA	1:A:6:ILE:HD12	0.50	2.31	12	1
1:A:149:HIS:CD2	1:A:150:PRO:HD2	0.50	2.42	16	2
1:A:50:VAL:CG2	1:A:169:MET:HB3	0.50	2.36	3	2
1:A:71:ARG:NE	1:A:78:LEU:HD11	0.50	2.21	17	1
1:A:76:LYS:N	1:A:76:LYS:HD3	0.50	2.22	1	1
1:A:158:MET:SD	1:A:166:LYS:HB2	0.50	2.47	16	7
1:A:61:LEU:HD12	1:A:155:CYS:SG	0.50	2.47	19	3
1:A:90:ASP:HB3	1:A:117:ILE:HB	0.50	1.83	2	1
1:A:202:GLY:HA2	1:A:205:ALA:HB3	0.50	1.82	16	1
1:A:112:ILE:CG2	1:A:134:PHE:CE1	0.50	2.94	17	17
1:A:126:ILE:HD12	1:A:154:VAL:HG12	0.50	1.83	12	4
1:A:24:TRP:HB2	1:A:37:SER:O	0.50	2.07	3	1
1:A:84:VAL:HG12	1:A:136:GLU:HG2	0.50	1.82	3	1
1:A:47:LEU:HD12	1:A:172:GLN:NE2	0.50	2.21	9	1
1:A:8:GLN:HG2	1:A:116:TYR:CE2	0.50	2.42	17	1
1:A:126:ILE:CB	1:A:154:VAL:HG12	0.49	2.37	5	8
1:A:3:PHE:HB3	1:A:114:LEU:HD11	0.49	1.83	6	5
1:A:10:THR:OG1	1:A:130:LYS:HE2	0.49	2.07	10	1
1:A:112:ILE:HG13	1:A:137:TYR:CD2	0.49	2.42	10	1
1:A:48:TYR:HB2	1:A:192:LEU:HD11	0.49	1.84	17	1
1:A:86:ARG:HG2	1:A:92:PHE:CD2	0.49	2.33	6	1
1:A:71:ARG:HG3	1:A:72:ILE:H	0.49	1.66	10	2
1:A:153:PHE:CZ	1:A:167:LEU:HD11	0.49	2.42	19	3
1:A:3:PHE:CD2	1:A:87:ILE:HD12	0.49	2.43	6	6
1:A:113:ASP:CB	1:A:129:SER:HB2	0.49	2.37	10	1
1:A:71:ARG:CZ	1:A:71:ARG:H	0.49	2.20	12	1
1:A:154:VAL:HG22	1:A:168:VAL:O	0.49	2.08	11	1
1:A:76:LYS:HD3	1:A:76:LYS:H	0.49	1.66	1	1
1:A:135:PRO:HB2	1:A:136:GLU:OE2	0.49	2.08	2	1
1:A:76:LYS:CG	1:A:198:ASN:HB3	0.49	2.37	6	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:37:SER:HA	1:A:47:LEU:O	0.49	2.07	19	2
1:A:24:TRP:HB3	1:A:38:LYS:CB	0.49	2.31	16	2
1:A:71:ARG:HD2	1:A:81:TYR:CD2	0.49	2.42	10	1
1:A:56:GLU:HG2	1:A:203:ILE:HG12	0.49	1.82	13	1
1:A:161:ASN:HB2	1:A:162:PRO:CD	0.49	2.38	9	3
1:A:11:ALA:HA	1:A:128:SER:HB3	0.49	1.85	6	3
1:A:61:LEU:O	1:A:64:PHE:CD1	0.48	2.66	4	4
1:A:34:THR:O	1:A:50:VAL:HA	0.48	2.09	7	3
1:A:35:VAL:CG2	1:A:193:VAL:HG13	0.48	2.38	19	2
1:A:197:LEU:HA	1:A:200:LYS:CG	0.48	2.38	6	1
1:A:197:LEU:HA	1:A:200:LYS:HG2	0.48	1.83	6	1
1:A:188:MET:O	1:A:192:LEU:HD12	0.48	2.08	18	1
1:A:4:LYS:HG2	1:A:8:GLN:HG3	0.48	1.84	17	1
1:A:56:GLU:HG3	1:A:57:SER:N	0.48	2.23	8	5
1:A:171:VAL:CB	1:A:192:LEU:HD21	0.48	2.31	14	2
1:A:195:PHE:O	1:A:198:ASN:HB2	0.48	2.08	3	3
1:A:67:GLN:HA	1:A:67:GLN:OE1	0.48	2.09	7	2
1:A:14:VAL:HA	1:A:17:TYR:HD2	0.48	1.68	16	2
1:A:65:LEU:HG	1:A:153:PHE:CE1	0.48	2.43	15	1
1:A:161:ASN:C	1:A:161:ASN:HD22	0.48	2.12	6	1
1:A:71:ARG:HD3	1:A:78:LEU:CD1	0.48	2.37	20	2
1:A:79:GLN:HG2	1:A:99:GLN:HG2	0.48	1.85	10	4
1:A:68:THR:CB	1:A:81:TYR:HB3	0.48	2.37	10	1
1:A:33:ILE:CD1	1:A:193:VAL:HB	0.48	2.37	2	3
1:A:10:THR:HA	1:A:13:GLU:HB3	0.48	1.85	5	3
1:A:91:THR:HG23	1:A:116:TYR:HD1	0.48	1.67	5	1
1:A:187:THR:HG23	1:A:188:MET:CE	0.48	2.38	8	1
1:A:119:ARG:O	1:A:119:ARG:HD3	0.48	2.09	18	4
1:A:50:VAL:O	1:A:168:VAL:HA	0.47	2.09	5	1
1:A:112:ILE:HD11	1:A:137:TYR:CD2	0.47	2.44	6	1
1:A:7:ALA:HA	1:A:10:THR:HB	0.47	1.85	17	3
1:A:74:TRP:CH2	1:A:198:ASN:HB2	0.47	2.44	18	1
1:A:50:VAL:CG1	1:A:192:LEU:HB3	0.47	2.39	14	2
1:A:124:MET:HA	1:A:155:CYS:O	0.47	2.08	10	5
1:A:91:THR:HG23	1:A:116:TYR:CD2	0.47	2.45	16	2
1:A:26:VAL:CG1	1:A:34:THR:HG22	0.47	2.39	15	2
1:A:26:VAL:HG11	1:A:34:THR:HG22	0.47	1.86	15	2
1:A:84:VAL:HG11	1:A:136:GLU:HG2	0.47	1.86	5	3
1:A:69:GLY:N	1:A:71:ARG:NH1	0.47	2.61	12	1
1:A:84:VAL:HG23	1:A:93:ILE:HB	0.47	1.87	12	1
1:A:71:ARG:HB3	1:A:71:ARG:CZ	0.47	2.39	13	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:188:MET:HB2	1:A:189:PRO:CD	0.47	2.35	20	2
1:A:72:ILE:CG2	1:A:78:LEU:HD13	0.47	2.39	19	1
1:A:191:ASN:HA	1:A:194:ASN:HB2	0.47	1.86	20	1
1:A:62:SER:HA	1:A:65:LEU:CD2	0.47	2.40	17	3
1:A:87:ILE:HD13	1:A:87:ILE:N	0.47	2.24	12	7
1:A:66:TYR:O	1:A:67:GLN:HB2	0.47	2.10	18	3
1:A:61:LEU:HA	1:A:64:PHE:HD1	0.47	1.66	8	1
1:A:147:TYR:HB3	1:A:174:GLU:CB	0.47	2.38	20	1
1:A:147:TYR:O	1:A:173:THR:HA	0.47	2.10	2	1
1:A:64:PHE:CD1	1:A:74:TRP:HZ2	0.47	2.26	12	1
1:A:74:TRP:HZ3	1:A:198:ASN:CB	0.47	2.22	20	1
1:A:49:ARG:HG2	1:A:169:MET:O	0.47	2.10	10	1
1:A:69:GLY:H	1:A:71:ARG:HH22	0.47	1.53	12	1
1:A:17:TYR:HA	1:A:20:ASP:CB	0.47	2.40	8	2
1:A:161:ASN:CB	1:A:162:PRO:CD	0.46	2.92	17	7
1:A:51:GLU:HG3	1:A:168:VAL:HB	0.46	1.87	17	1
1:A:93:ILE:HG21	1:A:134:PHE:CZ	0.46	2.44	20	1
1:A:33:ILE:HA	1:A:51:GLU:O	0.46	2.09	9	2
1:A:60:LYS:HG2	1:A:203:ILE:HG13	0.46	1.87	16	2
1:A:4:LYS:HG2	1:A:8:GLN:OE1	0.46	2.10	18	1
1:A:188:MET:HE2	1:A:188:MET:HA	0.46	1.86	6	3
1:A:151:CYS:SG	1:A:170:PHE:CE1	0.46	3.08	19	1
1:A:33:ILE:HD12	1:A:193:VAL:CB	0.46	2.37	2	1
1:A:64:PHE:HD1	1:A:74:TRP:CZ2	0.46	2.28	2	2
1:A:6:ILE:HG22	1:A:130:LYS:HE3	0.46	1.87	5	3
1:A:201:ASP:O	1:A:204:LYS:HG3	0.46	2.10	5	1
1:A:60:LYS:HA	1:A:63:ASP:HB3	0.46	1.88	6	1
1:A:109:ARG:HG3	1:A:144:ILE:HG23	0.46	1.86	10	5
1:A:8:GLN:HG2	1:A:116:TYR:CZ	0.46	2.46	1	1
1:A:51:GLU:HG3	1:A:166:LYS:CD	0.46	2.39	2	1
1:A:156:SER:H	1:A:166:LYS:HB3	0.46	1.70	17	1
1:A:50:VAL:HG22	1:A:196:ILE:HD12	0.46	1.87	9	1
1:A:80:VAL:HG13	1:A:97:ILE:HD13	0.46	1.86	13	1
1:A:186:LYS:O	1:A:190:SER:HB2	0.46	2.10	19	2
1:A:153:PHE:CE1	1:A:167:LEU:HD11	0.46	2.45	8	2
1:A:71:ARG:HG3	1:A:72:ILE:HG23	0.46	1.87	15	2
1:A:151:CYS:SG	1:A:172:GLN:N	0.46	2.89	12	2
1:A:84:VAL:HG12	1:A:136:GLU:HG3	0.46	1.87	13	1
1:A:51:GLU:CG	1:A:166:LYS:HD2	0.46	2.40	6	1
1:A:127:ILE:HG12	1:A:153:PHE:HB3	0.46	1.87	10	3
1:A:60:LYS:HE2	1:A:60:LYS:HA	0.46	1.86	12	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:67:GLN:HA	1:A:71:ARG:HD2	0.46	1.87	17	1
1:A:183:ILE:HA	1:A:186:LYS:HE3	0.46	1.88	20	2
1:A:58:PRO:HB2	1:A:125:ASN:ND2	0.46	2.26	3	1
1:A:109:ARG:HD2	1:A:147:TYR:CE2	0.46	2.46	4	1
1:A:84:VAL:CG1	1:A:136:GLU:HG2	0.46	2.41	5	2
1:A:157:PRO:HB3	1:A:161:ASN:ND2	0.46	2.25	5	1
1:A:32:LYS:NZ	1:A:32:LYS:HB2	0.46	2.26	20	1
1:A:27:VAL:HG11	1:A:48:TYR:CE2	0.46	2.46	3	1
1:A:60:LYS:HA	1:A:60:LYS:CE	0.46	2.41	3	1
1:A:82:ASN:O	1:A:95:HIS:HB3	0.46	2.11	7	1
1:A:77:SER:HA	1:A:99:GLN:HB2	0.46	1.87	14	1
1:A:79:GLN:CG	1:A:99:GLN:HG3	0.45	2.38	13	2
1:A:26:VAL:HG11	1:A:34:THR:HG23	0.45	1.86	5	3
1:A:58:PRO:HD3	1:A:165:SER:CB	0.45	2.41	5	2
1:A:69:GLY:O	1:A:70:ASP:HB3	0.45	2.10	6	1
1:A:24:TRP:HA	1:A:38:LYS:HA	0.45	1.88	8	1
1:A:17:TYR:CZ	1:A:49:ARG:HG3	0.45	2.46	10	1
1:A:91:THR:HG1	1:A:116:TYR:HD1	0.45	1.54	11	1
1:A:3:PHE:HD2	1:A:114:LEU:HD22	0.45	1.70	3	2
1:A:120:TYR:CB	1:A:123:ASN:HB2	0.45	2.41	17	3
1:A:110:ASP:HB3	1:A:145:ARG:HD2	0.45	1.88	17	1
1:A:113:ASP:CB	1:A:129:SER:HB3	0.45	2.41	20	1
1:A:30:SER:HB2	1:A:33:ILE:HG12	0.45	1.88	3	1
1:A:54:ILE:HG12	1:A:200:LYS:HD3	0.45	1.88	6	2
1:A:137:TYR:CD1	1:A:145:ARG:HG3	0.45	2.45	8	1
1:A:65:LEU:HD13	1:A:153:PHE:CD1	0.45	2.46	19	1
1:A:15:LEU:O	1:A:19:ARG:HG3	0.45	2.12	17	1
1:A:47:LEU:HD21	1:A:170:PHE:HD2	0.45	1.70	8	1
1:A:60:LYS:HB3	1:A:203:ILE:HD11	0.45	1.88	11	1
1:A:62:SER:HA	1:A:65:LEU:CD1	0.45	2.41	13	2
1:A:129:SER:HB2	1:A:151:CYS:SG	0.45	2.52	4	1
1:A:69:GLY:O	1:A:70:ASP:CB	0.45	2.64	20	1
1:A:109:ARG:HE	1:A:144:ILE:HG13	0.45	1.70	2	1
1:A:27:VAL:HG11	1:A:48:TYR:HE2	0.45	1.72	3	1
1:A:61:LEU:O	1:A:64:PHE:HD1	0.45	1.95	9	1
1:A:139:PRO:HA	1:A:145:ARG:CZ	0.45	2.42	15	1
1:A:153:PHE:CE1	1:A:167:LEU:HD21	0.45	2.47	16	2
1:A:76:LYS:HD3	1:A:77:SER:N	0.45	2.27	18	1
1:A:15:LEU:O	1:A:19:ARG:HD2	0.45	2.11	8	1
1:A:95:HIS:HD2	1:A:112:ILE:HD11	0.45	1.72	14	1
1:A:14:VAL:HG11	1:A:128:SER:CB	0.45	2.42	20	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:188:MET:CB	1:A:189:PRO:HD3	0.45	2.42	3	2
1:A:4:LYS:HD2	1:A:88:ASP:CG	0.45	2.31	6	1
1:A:116:TYR:HE1	1:A:118:LYS:HE2	0.45	1.70	17	1
1:A:61:LEU:HD11	1:A:165:SER:HB3	0.44	1.89	3	1
1:A:3:PHE:HB3	1:A:114:LEU:CD1	0.44	2.42	5	4
1:A:188:MET:HA	1:A:188:MET:CE	0.44	2.42	6	2
1:A:107:SER:OG	1:A:108:PRO:HD2	0.44	2.12	12	1
1:A:78:LEU:HD22	1:A:96:THR:HG21	0.44	1.89	19	2
1:A:77:SER:CA	1:A:99:GLN:HB2	0.44	2.42	14	1
1:A:75:ASP:CG	1:A:76:LYS:H	0.44	2.15	15	1
1:A:153:PHE:HE1	1:A:167:LEU:HD21	0.44	1.70	16	1
1:A:170:PHE:CD1	1:A:170:PHE:N	0.44	2.86	1	1
1:A:93:ILE:HG21	1:A:134:PHE:CE1	0.44	2.46	4	1
1:A:7:ALA:HB2	1:A:114:LEU:CD2	0.44	2.43	10	1
1:A:67:GLN:H	1:A:71:ARG:NH2	0.44	2.10	12	1
1:A:69:GLY:H	1:A:71:ARG:NH1	0.44	2.10	12	1
1:A:31:LYS:O	1:A:32:LYS:HB2	0.44	2.12	20	2
1:A:15:LEU:HD11	1:A:124:MET:SD	0.44	2.53	4	1
1:A:134:PHE:CD1	1:A:137:TYR:HB2	0.44	2.48	13	1
1:A:48:TYR:CE1	1:A:189:PRO:HG3	0.44	2.47	7	1
1:A:94:CYS:HB3	1:A:113:ASP:O	0.44	2.12	10	1
1:A:134:PHE:CB	1:A:135:PRO:HD2	0.44	2.42	13	1
1:A:14:VAL:HA	1:A:170:PHE:CE2	0.44	2.47	20	1
1:A:111:PHE:CZ	1:A:113:ASP:HB2	0.44	2.48	2	1
1:A:183:ILE:O	1:A:186:LYS:HG2	0.44	2.13	6	1
1:A:26:VAL:HG21	1:A:29:THR:CG2	0.44	2.41	11	2
1:A:71:ARG:H	1:A:71:ARG:CZ	0.44	2.26	13	1
1:A:59:ALA:O	1:A:63:ASP:HB2	0.44	2.13	16	1
1:A:50:VAL:HG22	1:A:169:MET:CB	0.44	2.42	3	1
1:A:119:ARG:NH1	1:A:121:GLU:HA	0.44	2.28	8	1
1:A:112:ILE:HG12	1:A:145:ARG:CD	0.44	2.36	12	1
1:A:116:TYR:HE1	1:A:118:LYS:HB2	0.44	1.67	16	1
1:A:120:TYR:HB2	1:A:123:ASN:HB3	0.44	1.88	16	1
1:A:196:ILE:O	1:A:200:LYS:HD3	0.43	2.13	1	1
1:A:3:PHE:CE1	1:A:93:ILE:HD11	0.43	2.48	18	4
1:A:74:TRP:HZ3	1:A:198:ASN:CG	0.43	2.15	15	1
1:A:118:LYS:HE3	1:A:120:TYR:CE1	0.43	2.48	18	1
1:A:24:TRP:CB	1:A:38:LYS:HG2	0.43	2.43	19	1
1:A:65:LEU:HD21	1:A:127:ILE:HG12	0.43	1.90	8	1
1:A:71:ARG:HG2	1:A:72:ILE:N	0.43	2.28	13	1
1:A:154:VAL:HG13	1:A:170:PHE:HE1	0.43	1.73	3	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:116:TYR:HE2	1:A:118:LYS:HE3	0.43	1.74	10	1
1:A:56:GLU:CD	1:A:57:SER:H	0.43	2.16	17	1
1:A:170:PHE:HD1	1:A:171:VAL:N	0.43	2.11	7	1
1:A:139:PRO:HB2	1:A:143:TYR:O	0.43	2.13	8	1
1:A:10:THR:O	1:A:14:VAL:HG12	0.43	2.12	10	1
1:A:71:ARG:O	1:A:78:LEU:HD12	0.43	2.13	12	1
1:A:148:ASN:HA	1:A:173:THR:HA	0.43	1.89	14	1
1:A:87:ILE:CG1	1:A:91:THR:HB	0.43	2.42	6	1
1:A:65:LEU:HG	1:A:153:PHE:CE2	0.43	2.49	8	1
1:A:67:GLN:HE22	1:A:115:VAL:HG21	0.43	1.73	8	1
1:A:134:PHE:HZ	1:A:136:GLU:HB3	0.43	1.66	12	2
1:A:72:ILE:HG22	1:A:78:LEU:CD1	0.43	2.24	17	1
1:A:49:ARG:HD2	1:A:170:PHE:HB3	0.43	1.87	19	1
1:A:11:ALA:O	1:A:15:LEU:HB3	0.43	2.13	5	1
1:A:24:TRP:O	1:A:25:LYS:HE2	0.43	2.13	15	1
1:A:49:ARG:HG2	1:A:170:PHE:CE2	0.43	2.49	16	1
1:A:30:SER:O	1:A:31:LYS:HB2	0.43	2.13	4	1
1:A:68:THR:HA	1:A:71:ARG:CZ	0.43	2.43	6	1
1:A:28:LYS:HD3	1:A:28:LYS:C	0.43	2.34	7	1
1:A:87:ILE:HB	1:A:91:THR:HB	0.43	1.91	6	1
1:A:161:ASN:HB2	1:A:162:PRO:HD3	0.43	1.89	11	1
1:A:61:LEU:O	1:A:65:LEU:HD23	0.43	2.13	19	1
1:A:118:LYS:HD2	1:A:120:TYR:CZ	0.43	2.48	3	1
1:A:83:MET:SD	1:A:86:ARG:HD2	0.43	2.53	6	1
1:A:83:MET:HE2	1:A:86:ARG:HG2	0.43	1.91	8	1
1:A:71:ARG:HD2	1:A:72:ILE:HG23	0.43	1.90	12	1
1:A:35:VAL:HG13	1:A:50:VAL:HG13	0.43	1.91	16	1
1:A:33:ILE:HG22	1:A:34:THR:N	0.42	2.29	4	1
1:A:149:HIS:HB3	1:A:150:PRO:HD2	0.42	1.91	12	1
1:A:98:THR:HG22	1:A:109:ARG:O	0.42	2.14	16	2
1:A:187:THR:HG23	1:A:188:MET:SD	0.42	2.54	18	2
1:A:48:TYR:CB	1:A:192:LEU:HD11	0.42	2.44	17	1
1:A:161:ASN:ND2	1:A:162:PRO:HD3	0.42	2.28	19	1
1:A:153:PHE:CZ	1:A:167:LEU:HD21	0.42	2.49	9	1
1:A:79:GLN:HB2	1:A:97:ILE:O	0.42	2.14	13	1
1:A:75:ASP:CG	1:A:76:LYS:N	0.42	2.73	15	1
1:A:201:ASP:O	1:A:204:LYS:HD3	0.42	2.13	16	1
1:A:152:GLY:O	1:A:169:MET:SD	0.42	2.77	17	1
1:A:156:SER:HB2	1:A:166:LYS:CB	0.42	2.44	17	1
1:A:171:VAL:HG13	1:A:173:THR:OG1	0.42	2.14	10	1
1:A:7:ALA:HB1	1:A:116:TYR:HB3	0.42	1.90	20	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:17:TYR:HA	1:A:20:ASP:HB3	0.42	1.91	2	2
1:A:148:ASN:OD1	1:A:173:THR:HB	0.42	2.13	2	1
1:A:113:ASP:O	1:A:115:VAL:HG12	0.42	2.14	3	3
1:A:196:ILE:HG22	1:A:197:LEU:HD22	0.42	1.91	5	1
1:A:134:PHE:CE2	1:A:136:GLU:CB	0.42	3.03	6	1
1:A:187:THR:HG23	1:A:188:MET:HE3	0.42	1.92	8	1
1:A:17:TYR:OH	1:A:168:VAL:HG23	0.42	2.14	14	1
1:A:91:THR:HG1	1:A:116:TYR:HD2	0.42	1.56	19	1
1:A:64:PHE:CD1	1:A:65:LEU:N	0.42	2.87	5	3
1:A:171:VAL:HG22	1:A:192:LEU:HD21	0.42	1.91	5	1
1:A:4:LYS:HE3	1:A:116:TYR:CE1	0.42	2.49	8	1
1:A:14:VAL:CG1	1:A:126:ILE:HD11	0.42	2.45	13	4
1:A:64:PHE:HB2	1:A:74:TRP:CZ2	0.42	2.49	17	1
1:A:67:GLN:HE22	1:A:92:PHE:HB2	0.42	1.75	20	1
1:A:186:LYS:NZ	1:A:186:LYS:HB3	0.42	2.30	6	1
1:A:54:ILE:HG12	1:A:200:LYS:HD2	0.42	1.91	8	1
1:A:66:TYR:N	1:A:71:ARG:HH12	0.42	2.12	13	1
1:A:155:CYS:HA	1:A:166:LYS:O	0.42	2.14	17	1
1:A:7:ALA:CA	1:A:130:LYS:HE3	0.42	2.44	2	1
1:A:14:VAL:CG2	1:A:170:PHE:HD1	0.42	2.20	8	1
1:A:78:LEU:HD22	1:A:96:THR:CG2	0.42	2.44	9	1
1:A:149:HIS:CG	1:A:150:PRO:HD2	0.42	2.50	16	1
1:A:173:THR:HB	1:A:188:MET:SD	0.42	2.55	16	1
1:A:56:GLU:HG3	1:A:57:SER:H	0.42	1.75	19	1
1:A:81:TYR:CE2	1:A:94:CYS:HB2	0.42	2.50	5	1
1:A:86:ARG:HD2	1:A:92:PHE:CE2	0.42	2.49	8	1
1:A:194:ASN:HA	1:A:197:LEU:CG	0.42	2.44	8	1
1:A:95:HIS:CD2	1:A:112:ILE:HD11	0.42	2.49	14	1
1:A:74:TRP:CH2	1:A:202:GLY:HA3	0.42	2.49	19	1
1:A:76:LYS:HB2	1:A:76:LYS:NZ	0.41	2.30	2	1
1:A:14:VAL:O	1:A:17:TYR:HB2	0.41	2.15	11	1
1:A:62:SER:HA	1:A:65:LEU:HD22	0.41	1.92	17	1
1:A:37:SER:HB3	1:A:46:ASN:OD1	0.41	2.15	1	1
1:A:54:ILE:CD1	1:A:199:ALA:HB1	0.41	2.45	1	1
1:A:106:ILE:CD1	1:A:183:ILE:HG22	0.41	2.45	2	1
1:A:64:PHE:CD1	1:A:74:TRP:CH2	0.41	3.08	6	1
1:A:110:ASP:OD2	1:A:145:ARG:HD2	0.41	2.15	7	2
1:A:75:ASP:HA	1:A:198:ASN:ND2	0.41	2.30	19	2
1:A:200:LYS:O	1:A:203:ILE:HG22	0.41	2.15	19	1
1:A:8:GLN:HG3	1:A:9:GLN:N	0.41	2.28	20	1
1:A:71:ARG:HD3	1:A:78:LEU:HD13	0.41	1.91	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:109:ARG:NE	1:A:144:ILE:HG13	0.41	2.31	2	1
1:A:21:THR:HG22	1:A:24:TRP:CH2	0.41	2.50	8	1
1:A:136:GLU:C	1:A:138:PRO:HD2	0.41	2.36	2	1
1:A:183:ILE:CA	1:A:186:LYS:HE2	0.41	2.42	6	1
1:A:35:VAL:HG13	1:A:50:VAL:HG23	0.41	1.92	8	1
1:A:170:PHE:CZ	1:A:172:GLN:HB2	0.41	2.50	8	1
1:A:185:GLU:O	1:A:189:PRO:HD2	0.41	2.15	13	1
1:A:65:LEU:HD13	1:A:66:TYR:N	0.41	2.30	15	1
1:A:169:MET:HG2	1:A:170:PHE:N	0.41	2.30	15	1
1:A:64:PHE:HB2	1:A:74:TRP:HZ2	0.41	1.75	10	1
1:A:3:PHE:CD1	1:A:87:ILE:HD12	0.41	2.51	12	1
1:A:116:TYR:HB3	1:A:128:SER:OG	0.41	2.15	3	1
1:A:67:GLN:HG2	1:A:81:TYR:CZ	0.41	2.51	10	1
1:A:18:ASN:ND2	1:A:168:VAL:HG21	0.41	2.31	14	1
1:A:68:THR:HB	1:A:81:TYR:CE2	0.41	2.51	6	1
1:A:67:GLN:OE1	1:A:68:THR:HB	0.41	2.15	12	1
1:A:3:PHE:HB2	1:A:87:ILE:HG13	0.41	1.92	14	1
1:A:7:ALA:HB1	1:A:116:TYR:CD1	0.41	2.50	20	1
1:A:3:PHE:O	1:A:114:LEU:HD21	0.41	2.16	4	1
1:A:157:PRO:HB3	1:A:161:ASN:OD1	0.41	2.16	6	1
1:A:70:ASP:H	1:A:71:ARG:HH12	0.41	1.57	12	1
1:A:119:ARG:NH1	1:A:121:GLU:HG2	0.41	2.31	17	1
1:A:128:SER:HA	1:A:152:GLY:HA3	0.41	1.93	20	1
1:A:144:ILE:HG12	1:A:147:TYR:HE2	0.41	1.76	12	1
1:A:134:PHE:CE2	1:A:136:GLU:CG	0.41	3.04	2	1
1:A:161:ASN:CG	1:A:162:PRO:HD3	0.41	2.37	19	2
1:A:153:PHE:CE2	1:A:167:LEU:HD21	0.41	2.51	4	1
1:A:64:PHE:HD1	1:A:74:TRP:CH2	0.41	2.34	6	1
1:A:70:ASP:H	1:A:71:ARG:NH1	0.41	2.14	12	1
1:A:24:TRP:CH2	1:A:49:ARG:HD2	0.41	2.51	14	1
1:A:47:LEU:HD12	1:A:172:GLN:OE1	0.40	2.16	7	1
1:A:148:ASN:OD1	1:A:173:THR:HG23	0.40	2.16	7	1
1:A:58:PRO:HG3	1:A:165:SER:HB3	0.40	1.92	10	1
1:A:47:LEU:CD1	1:A:172:GLN:HB2	0.40	2.45	18	1
1:A:88:ASP:CG	1:A:89:SER:H	0.40	2.20	2	1
1:A:10:THR:HA	1:A:13:GLU:OE1	0.40	2.17	7	2
1:A:10:THR:CG2	1:A:128:SER:HB3	0.40	2.46	12	1
1:A:71:ARG:HG2	1:A:78:LEU:CD1	0.40	2.46	18	1
1:A:84:VAL:CG1	1:A:137:TYR:HB2	0.40	2.44	20	1
1:A:24:TRP:C	1:A:24:TRP:CE3	0.40	2.95	3	1
1:A:94:CYS:SG	1:A:113:ASP:HB2	0.40	2.56	5	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:158:MET:N	1:A:161:ASN:HB3	0.40	2.32	10	1
1:A:117:ILE:HD12	1:A:117:ILE:N	0.40	2.31	11	1
1:A:14:VAL:HG23	1:A:170:PHE:HD2	0.40	1.74	12	1
1:A:70:ASP:O	1:A:74:TRP:CD1	0.40	2.75	12	1
1:A:130:LYS:NZ	1:A:130:LYS:HB3	0.40	2.31	13	1
1:A:117:ILE:HG12	1:A:127:ILE:CG2	0.40	2.46	14	1
1:A:193:VAL:O	1:A:197:LEU:HG	0.40	2.16	15	1
1:A:189:PRO:HA	1:A:192:LEU:HD12	0.40	1.94	20	1
1:A:21:THR:HG22	1:A:24:TRP:CZ2	0.40	2.51	4	1
1:A:79:GLN:HB3	1:A:80:VAL:HG23	0.40	1.94	12	1
1:A:72:ILE:HD13	1:A:72:ILE:H	0.40	1.76	8	1
1:A:151:CYS:HA	1:A:170:PHE:CZ	0.40	2.52	10	1
1:A:24:TRP:CD2	1:A:36:SER:HB2	0.40	2.52	19	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	183/220 (83%)	152±3 (83±2%)	23±3 (13±2%)	8±2 (4±1%)	3	28
All	All	3660/4400 (83%)	3043 (83%)	459 (13%)	158 (4%)	3	28

All 24 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	121	GLU	20
1	A	150	PRO	20
1	A	70	ASP	14
1	A	67	GLN	14
1	A	32	LYS	12
1	A	161	ASN	12
1	A	66	TYR	10
1	A	84	VAL	9
1	A	139	PRO	9

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Mol	Chain	Res	Type	Models (Total)
1	A	145	ARG	8
1	A	138	PRO	5
1	A	22	SER	4
1	A	55	PRO	3
1	A	31	LYS	3
1	A	135	PRO	3
1	A	131	SER	2
1	A	68	THR	2
1	A	2	ASP	2
1	A	21	THR	1
1	A	79	GLN	1
1	A	146	GLY	1
1	A	173	THR	1
1	A	25	LYS	1
1	A	75	ASP	1

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	168/199 (84%)	141±4 (84±2%)	27±4 (16±2%)	4	40
All	All	3360/3980 (84%)	2820 (84%)	540 (16%)	4	40

All 96 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	10	THR	20
1	A	24	TRP	20
1	A	84	VAL	20
1	A	115	VAL	20
1	A	167	LEU	20
1	A	168	VAL	20
1	A	72	ILE	19
1	A	87	ILE	19
1	A	126	ILE	19
1	A	65	LEU	18

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Mol	Chain	Res	Type	Models (Total)
1	A	15	LEU	17
1	A	132	VAL	16
1	A	76	LYS	15
1	A	91	THR	13
1	A	6	ILE	12
1	A	134	PHE	12
1	A	194	ASN	12
1	A	170	PHE	10
1	A	184	ILE	10
1	A	119	ARG	10
1	A	25	LYS	9
1	A	73	THR	9
1	A	71	ARG	9
1	A	144	ILE	8
1	A	18	ASN	7
1	A	50	VAL	7
1	A	145	ARG	6
1	A	29	THR	5
1	A	113	ASP	5
1	A	49	ARG	5
1	A	188	MET	5
1	A	191	ASN	5
1	A	158	MET	5
1	A	60	LYS	5
1	A	203	ILE	5
1	A	36	SER	4
1	A	123	ASN	4
1	A	26	VAL	4
1	A	83	MET	4
1	A	13	GLU	4
1	A	173	THR	4
1	A	171	VAL	4
1	A	124	MET	4
1	A	19	ARG	3
1	A	67	GLN	3
1	A	172	GLN	3
1	A	137	TYR	3
1	A	147	TYR	3
1	A	31	LYS	3
1	A	195	PHE	3
1	A	56	GLU	3
1	A	28	LYS	3

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Mol	Chain	Res	Type	Models (Total)
1	A	46	ASN	2
1	A	34	THR	2
1	A	125	ASN	2
1	A	174	GLU	2
1	A	185	GLU	2
1	A	186	LYS	2
1	A	2	ASP	2
1	A	142	ASN	2
1	A	204	LYS	2
1	A	66	TYR	2
1	A	22	SER	2
1	A	161	ASN	2
1	A	193	VAL	2
1	A	35	VAL	2
1	A	17	TYR	2
1	A	99	GLN	2
1	A	63	ASP	2
1	A	149	HIS	2
1	A	21	THR	2
1	A	127	ILE	2
1	A	75	ASP	1
1	A	79	GLN	1
1	A	86	ARG	1
1	A	109	ARG	1
1	A	136	GLU	1
1	A	9	GLN	1
1	A	14	VAL	1
1	A	150	PRO	1
1	A	121	GLU	1
1	A	82	ASN	1
1	A	201	ASP	1
1	A	4	LYS	1
1	A	81	TYR	1
1	A	85	HIS	1
1	A	94	CYS	1
1	A	153	PHE	1
1	A	200	LYS	1
1	A	130	LYS	1
1	A	38	LYS	1
1	A	77	SER	1
1	A	128	SER	1
1	A	70	ASP	1

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Mol	Chain	Res	Type	Models (Total)
1	A	8	GLN	1
1	A	116	TYR	1

### 6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

## 6.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

## 6.6 Ligand geometry [i](#)

There are no ligands in this entry.

## 6.7 Other polymers [i](#)

There are no such molecules in this entry.

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

There are no chain breaks in this entry.

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

The completeness of assignment taking into account all chemical shift lists is 84% for the well-defined parts and 80% for the entire structure.

### 7.1 Chemical shift list 1

File name: working\_cs.cif

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

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

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

Total number of shifts	2434
Number of shifts mapped to atoms	2434
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	13

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

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction $\pm$ precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	215	$0.17 \pm 0.07$	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	203	$0.61 \pm 0.11$	Should be checked
$^{13}\text{C}'$	198	$0.27 \pm 0.08$	None needed (< 0.5 ppm)
$^{15}\text{N}$	199	$-0.28 \pm 0.23$	None needed (< 0.5 ppm)

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

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 84%, i.e. 2123 atoms were assigned a chemical shift out of a possible 2527. 0 out of 22 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	$^1\text{H}$	$^{13}\text{C}$	$^{15}\text{N}$
Backbone	879/903 (97%)	357/364 (98%)	352/366 (96%)	170/173 (98%)
Sidechain	1174/1406 (83%)	796/913 (87%)	378/440 (86%)	0/53 (0%)

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	Total	<sup>1</sup> H	<sup>13</sup> C	<sup>15</sup> N
Aromatic	70/218 (32%)	36/104 (35%)	32/106 (30%)	2/8 (25%)
Overall	2123/2527 (84%)	1189/1381 (86%)	762/912 (84%)	172/234 (74%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 80%, i.e. 2433 atoms were assigned a chemical shift out of a possible 3028. 0 out of 24 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	<sup>1</sup> H	<sup>13</sup> C	<sup>15</sup> N
Backbone	1030/1088 (95%)	418/440 (95%)	413/440 (94%)	199/208 (96%)
Sidechain	1333/1652 (81%)	900/1072 (84%)	433/509 (85%)	0/71 (0%)
Aromatic	70/288 (24%)	36/139 (26%)	32/131 (24%)	2/18 (11%)
Overall	2433/3028 (80%)	1354/1651 (82%)	878/1080 (81%)	201/297 (68%)

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

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

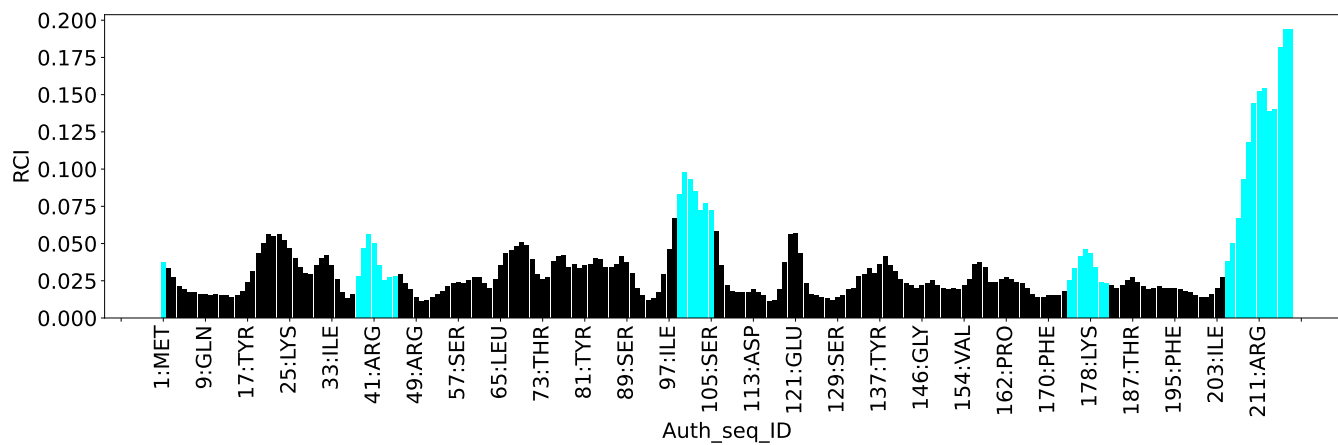
List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	147	TYR	CD1	117.77	125.84 – 139.60	-10.9
1	A	147	TYR	CD2	117.77	125.28 – 140.14	-10.1
1	A	92	PHE	CE2	119.50	124.80 – 136.72	-9.4
1	A	64	PHE	CD2	120.81	125.53 – 137.61	-8.9
1	A	64	PHE	CD1	120.81	125.33 – 137.83	-8.6
1	A	92	PHE	CE1	119.50	124.17 – 137.29	-8.6
1	A	134	PHE	CZ	118.12	121.82 – 136.66	-7.5
1	A	64	PHE	CE2	123.10	124.80 – 136.72	-6.4
1	A	3	PHE	CZ	119.94	121.82 – 136.66	-6.3
1	A	64	PHE	CE1	123.10	124.17 – 137.29	-5.8
1	A	203	ILE	HB	0.13	0.35 – 3.22	-5.8
1	A	115	VAL	HB	0.23	0.43 – 3.54	-5.6
1	A	74	TRP	CZ3	130.17	113.48 – 129.28	5.6

#### 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	4581
Intra-residue ( $ i-j =0$ )	1457
Sequential ( $ i-j =1$ )	1136
Medium range ( $ i-j >1$ and $ i-j <5$ )	664
Long range ( $ i-j \geq 5$ )	1163
Inter-chain	0
Hydrogen bond restraints	161
Disulfide bond restraints	0
Total dihedral-angle restraints	302
Number of unmapped restraints	0
Number of restraints per residue	22.2
Number of long range restraints per residue <sup>1</sup>	5.7

<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)	124.8	0.2
0.2-0.5 (Medium)	92.0	0.5
>0.5 (Large)	88.4	3.31

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

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

Bins (°)	Average number of violations per model	Max (°)
1.0-10.0 (Small)	18.9	8.36
10.0-20.0 (Medium)	None	None
>20.0 (Large)	None	None



## 9 Distance violation analysis [i](#)

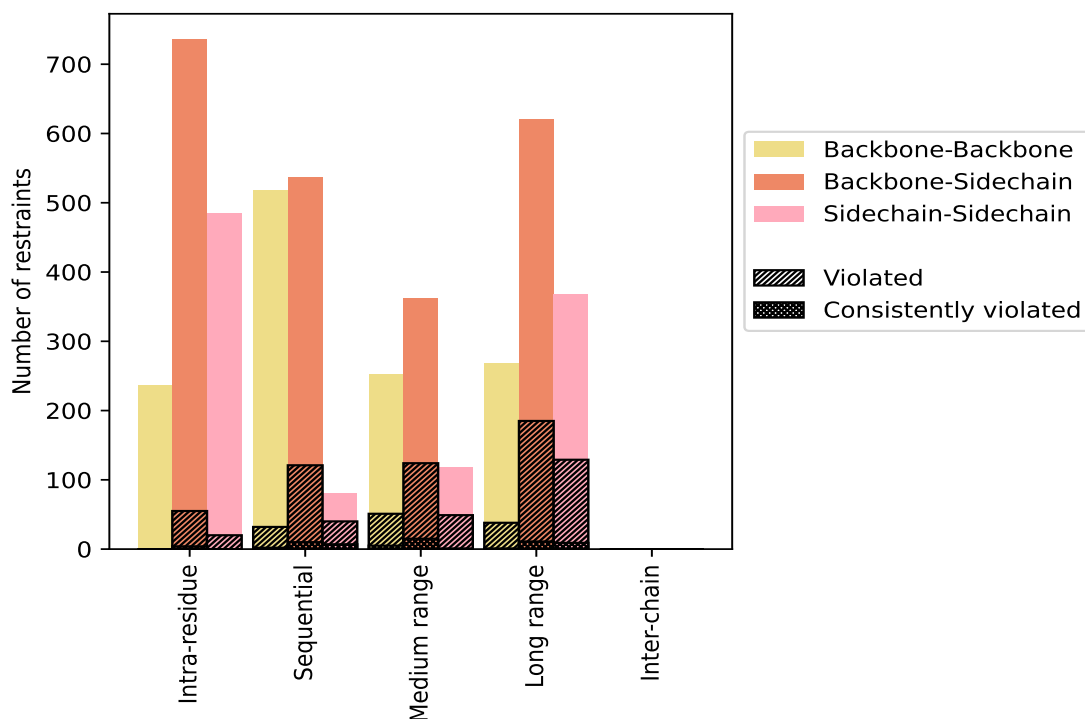
### 9.1 Summary of distance violations [i](#)

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

Restrains type	Count	% <sup>1</sup>	Violated <sup>3</sup>			Consistently Violated <sup>4</sup>		
			Count	% <sup>2</sup>	% <sup>1</sup>	Count	% <sup>2</sup>	% <sup>1</sup>
<b>Intra-residue (<math> i-j =0</math>)</b>	<b>1457</b>	<b>31.8</b>	<b>75</b>	<b>5.1</b>	<b>1.6</b>	<b>4</b>	<b>0.3</b>	<b>0.1</b>
Backbone-Backbone	237	5.2	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	736	16.1	55	7.5	1.2	4	0.5	0.1
Sidechain-Sidechain	484	10.6	20	4.1	0.4	0	0.0	0.0
<b>Sequential (<math> i-j =1</math>)</b>	<b>1136</b>	<b>24.8</b>	<b>193</b>	<b>17.0</b>	<b>4.2</b>	<b>19</b>	<b>1.7</b>	<b>0.4</b>
Backbone-Backbone	518	11.3	32	6.2	0.7	2	0.4	0.0
Backbone-Sidechain	537	11.7	121	22.5	2.6	10	1.9	0.2
Sidechain-Sidechain	81	1.8	40	49.4	0.9	7	8.6	0.2
<b>Medium range (<math> i-j &gt;1</math> &amp; <math> i-j &lt;5</math>)</b>	<b>664</b>	<b>14.5</b>	<b>220</b>	<b>33.1</b>	<b>4.8</b>	<b>21</b>	<b>3.2</b>	<b>0.5</b>
Backbone-Backbone	252	5.5	51	20.2	1.1	5	2.0	0.1
Backbone-Sidechain	294	6.4	120	40.8	2.6	15	5.1	0.3
Sidechain-Sidechain	118	2.6	49	41.5	1.1	1	0.8	0.0
<b>Long range (<math> i-j \geq 5</math>)</b>	<b>1163</b>	<b>25.4</b>	<b>344</b>	<b>29.6</b>	<b>7.5</b>	<b>21</b>	<b>1.8</b>	<b>0.5</b>
Backbone-Backbone	268	5.9	38	14.2	0.8	1	0.4	0.0
Backbone-Sidechain	527	11.5	177	33.6	3.9	11	2.1	0.2
Sidechain-Sidechain	368	8.0	129	35.1	2.8	9	2.4	0.2
<b>Inter-chain</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
<b>Hydrogen bond</b>	<b>161</b>	<b>3.5</b>	<b>12</b>	<b>7.5</b>	<b>0.3</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>4581</b>	<b>100.0</b>	<b>844</b>	<b>18.4</b>	<b>18.4</b>	<b>65</b>	<b>1.4</b>	<b>1.4</b>
Backbone-Backbone	1275	27.8	121	9.5	2.6	8	0.6	0.2
Backbone-Sidechain	2255	49.2	485	21.5	10.6	40	1.8	0.9
Sidechain-Sidechain	1051	22.9	238	22.6	5.2	17	1.6	0.4

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

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



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

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

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

Model ID	Number of violations						Mean (Å)	Max (Å)	SD <sup>6</sup> (Å)	Median (Å)
	IR <sup>1</sup>	SQ <sup>2</sup>	MR <sup>3</sup>	LR <sup>4</sup>	IC <sup>5</sup>	Total				
1	25	77	83	118	0	303	0.41	1.75	0.36	0.23
2	20	75	87	134	0	316	0.44	1.67	0.39	0.24
3	25	69	102	132	0	328	0.41	3.31	0.39	0.23
4	23	69	88	127	0	307	0.43	1.79	0.39	0.24
5	24	76	93	105	0	298	0.41	1.89	0.35	0.24
6	26	76	90	132	0	324	0.41	1.91	0.36	0.25
7	21	76	85	122	0	304	0.41	1.76	0.36	0.25
8	27	73	95	133	0	328	0.44	2.21	0.39	0.27
9	21	64	96	122	0	303	0.39	1.76	0.38	0.21
10	22	76	78	131	0	307	0.43	1.85	0.39	0.24

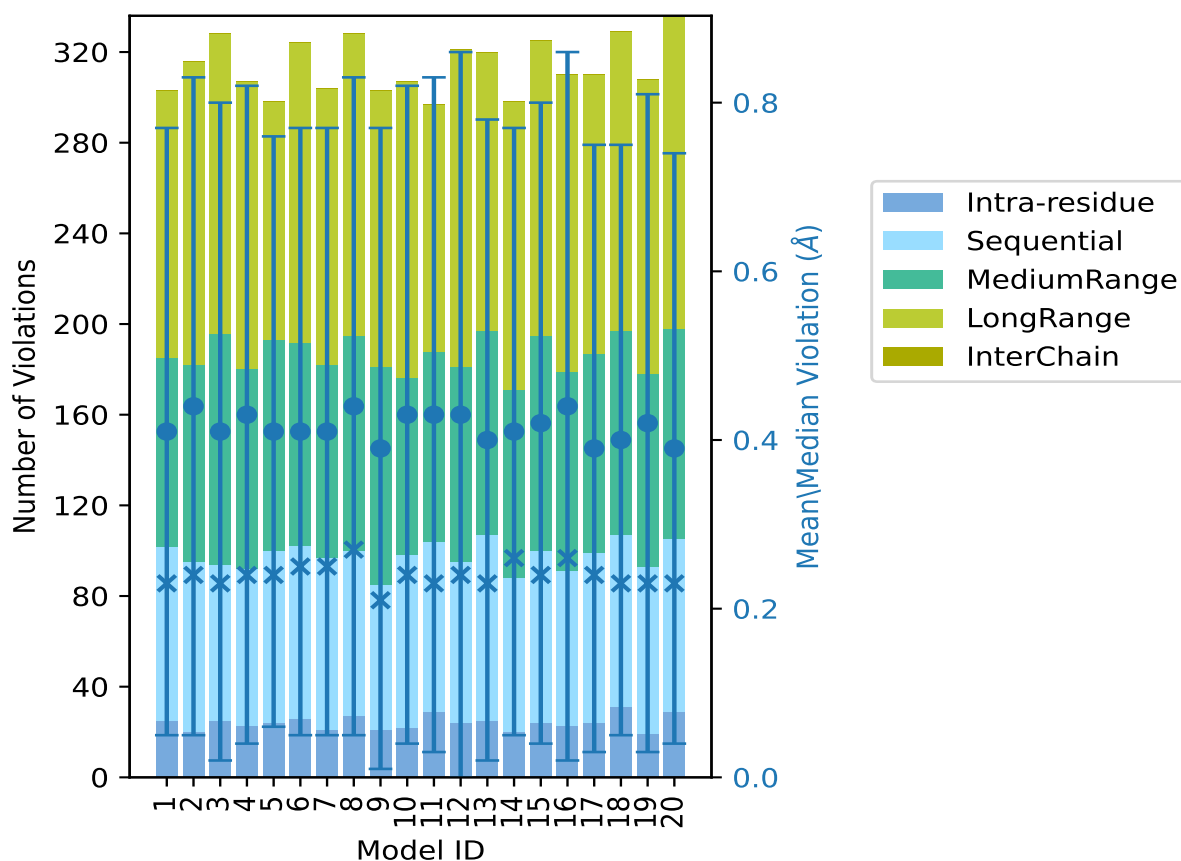
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Model ID	Number of violations						Mean (Å)	Max (Å)	SD <sup>6</sup> (Å)	Median (Å)
	IR <sup>1</sup>	SQ <sup>2</sup>	MR <sup>3</sup>	LR <sup>4</sup>	IC <sup>5</sup>	Total				
11	29	75	84	109	0	297	0.43	2.1	0.4	0.23
12	24	71	86	140	0	321	0.43	2.14	0.43	0.24
13	25	82	90	123	0	320	0.4	2.74	0.38	0.23
14	20	68	83	127	0	298	0.41	1.85	0.36	0.26
15	24	76	95	130	0	325	0.42	1.79	0.38	0.24
16	23	68	88	131	0	310	0.44	3.29	0.42	0.26
17	24	75	88	123	0	310	0.39	1.81	0.36	0.24
18	31	76	90	132	0	329	0.4	1.56	0.35	0.23
19	19	74	85	130	0	308	0.42	2.3	0.39	0.23
20	29	76	93	138	0	336	0.39	1.78	0.35	0.23

<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

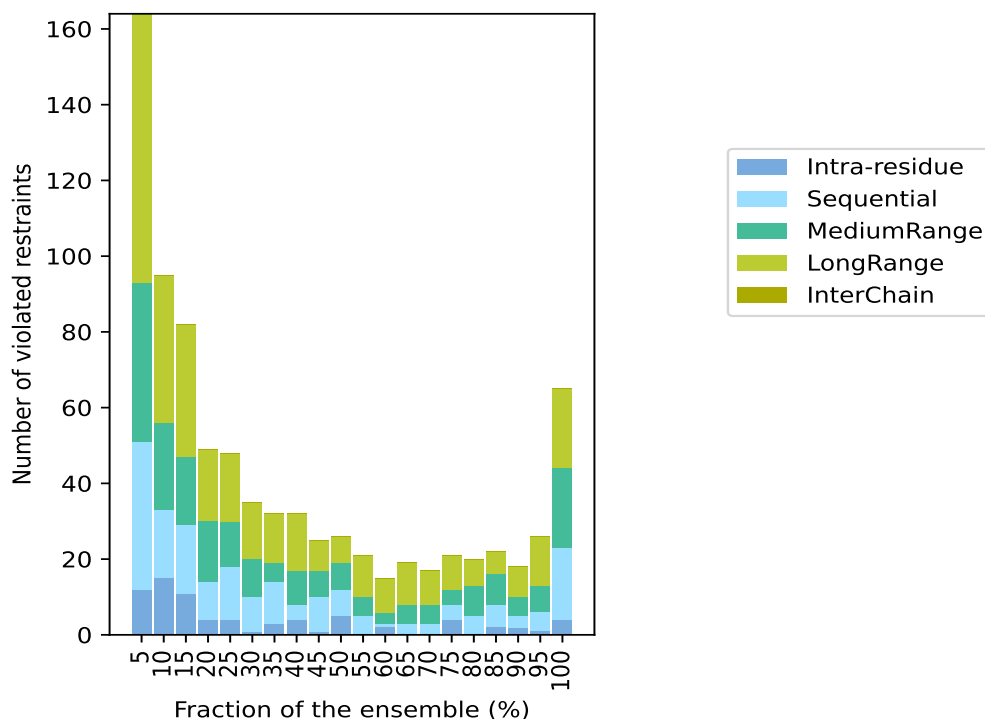
### 9.3 Distance violation statistics for the ensemble

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, 3588(IR:1382, SQ:943, MR:444, LR:819, 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>	%
12	39	42	71	0	164	1	5.0
15	18	23	39	0	95	2	10.0
11	18	18	35	0	82	3	15.0
4	10	16	19	0	49	4	20.0
4	14	12	18	0	48	5	25.0
1	9	10	15	0	35	6	30.0
3	11	5	13	0	32	7	35.0
4	4	9	15	0	32	8	40.0
1	9	7	8	0	25	9	45.0
5	7	7	7	0	26	10	50.0
0	5	5	11	0	21	11	55.0
2	1	3	9	0	15	12	60.0
0	3	5	11	0	19	13	65.0
0	3	5	9	0	17	14	70.0
4	4	4	9	0	21	15	75.0
0	5	8	7	0	20	16	80.0
2	6	8	6	0	22	17	85.0
2	3	5	8	0	18	18	90.0
1	5	7	13	0	26	19	95.0
4	19	21	21	0	65	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

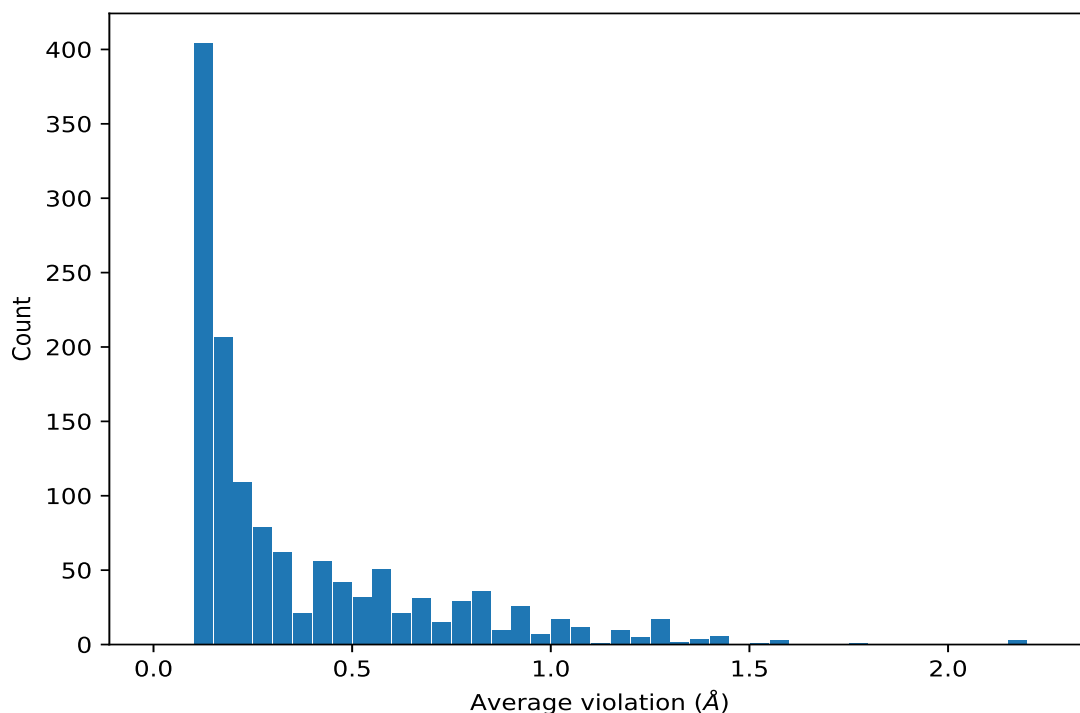
### 9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



## 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)
(1,2459)	1:134:A:PHE:H	1:112:A:ILE:HG12	20	1.26	0.14	1.28
(1,3776)	1:114:A:LEU:HB3	1:93:A:ILE:HB	20	1.23	0.13	1.19
(1,2206)	1:168:A:VAL:HG11	1:51:A:GLU:HG2	20	1.21	0.36	1.32
(1,2206)	1:168:A:VAL:HG12	1:51:A:GLU:HG2	20	1.21	0.36	1.32
(1,2206)	1:168:A:VAL:HG13	1:51:A:GLU:HG2	20	1.21	0.36	1.32
(1,3512)	1:124:A:MET:H	1:122:A:GLY:HA3	20	1.08	0.05	1.08
(1,4355)	1:29:A:THR:HB	1:33:A:ILE:HG12	20	1.06	0.19	1.09
(1,3937)	1:18:A:ASN:HB2	1:17:A:TYR:HB3	20	1.06	0.3	1.05
(1,1416)	1:179:A:LEU:HA	1:184:A:ILE:HG12	20	0.99	0.12	1.04
(1,3320)	1:5:A:ALA:HB1	1:4:A:LYS:HB2	20	0.95	0.19	0.98
(1,3320)	1:5:A:ALA:HB2	1:4:A:LYS:HB2	20	0.95	0.19	0.98
(1,3320)	1:5:A:ALA:HB3	1:4:A:LYS:HB2	20	0.95	0.19	0.98
(1,3028)	1:96:A:THR:HG21	1:72:A:ILE:HG12	20	0.95	0.28	1.04
(1,3028)	1:96:A:THR:HG22	1:72:A:ILE:HG12	20	0.95	0.28	1.04
(1,3028)	1:96:A:THR:HG23	1:72:A:ILE:HG12	20	0.95	0.28	1.04
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG21	20	0.93	0.29	1.07

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG22	20	0.93	0.29	1.07
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG23	20	0.93	0.29	1.07
(1,3064)	1:155:A:CYS:H	1:126:A:ILE:HG12	20	0.93	0.08	0.93
(1,2961)	1:156:A:SER:H	1:166:A:LYS:HD2	20	0.85	0.13	0.88
(1,2984)	1:166:A:LYS:HG2	1:51:A:GLU:HG2	20	0.85	0.35	0.87
(1,3114)	1:22:A:SER:H	1:24:A:TRP:HB2	20	0.84	0.32	0.88
(1,1923)	1:71:A:ARG:HB3	1:78:A:LEU:HG	20	0.83	0.31	0.86
(1,4350)	1:21:A:THR:HG21	1:20:A:ASP:HB2	20	0.82	0.31	0.92
(1,4350)	1:21:A:THR:HG22	1:20:A:ASP:HB2	20	0.82	0.31	0.92
(1,4350)	1:21:A:THR:HG23	1:20:A:ASP:HB2	20	0.82	0.31	0.92
(1,2843)	1:154:A:VAL:HB	1:126:A:ILE:HG12	20	0.81	0.13	0.78
(1,375)	1:112:A:ILE:HG21	1:95:A:HIS:HB3	20	0.73	0.15	0.76
(1,375)	1:112:A:ILE:HG22	1:95:A:HIS:HB3	20	0.73	0.15	0.76
(1,375)	1:112:A:ILE:HG23	1:95:A:HIS:HB3	20	0.73	0.15	0.76
(1,4107)	1:79:A:GLN:H	1:72:A:ILE:HG12	20	0.73	0.18	0.75
(1,102)	1:73:A:THR:HB	1:72:A:ILE:HG13	20	0.72	0.26	0.82
(1,4015)	1:27:A:VAL:H	1:36:A:SER:HB2	20	0.69	0.29	0.82
(1,2960)	1:132:A:VAL:H	1:133:A:ASP:HB2	20	0.68	0.58	0.32
(1,2848)	1:115:A:VAL:HG11	1:114:A:LEU:HB3	20	0.66	0.04	0.66
(1,2848)	1:115:A:VAL:HG12	1:114:A:LEU:HB3	20	0.66	0.04	0.66
(1,2848)	1:115:A:VAL:HG13	1:114:A:LEU:HB3	20	0.66	0.04	0.66
(1,1463)	1:91:A:THR:HA	1:117:A:ILE:HG12	20	0.63	0.27	0.62
(1,593)	1:84:A:VAL:H	1:86:A:ARG:HG2	20	0.6	0.51	0.26
(1,3340)	1:18:A:ASN:H	1:15:A:LEU:HB2	20	0.59	0.16	0.66
(1,3217)	1:197:A:LEU:H	1:196:A:ILE:HG12	20	0.56	0.03	0.55
(1,2624)	1:91:A:THR:H	1:87:A:ILE:HG13	20	0.54	0.11	0.53
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG11	20	0.48	0.44	0.21
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG12	20	0.48	0.44	0.21
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG13	20	0.48	0.44	0.21
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG11	20	0.41	0.21	0.31
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG12	20	0.41	0.21	0.31
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG13	20	0.41	0.21	0.31
(1,1553)	1:57:A:SER:H	1:58:A:PRO:HD3	20	0.4	0.24	0.3
(1,1826)	1:184:A:ILE:HD11	1:183:A:ILE:HG13	20	0.4	0.1	0.4
(1,1826)	1:184:A:ILE:HD12	1:183:A:ILE:HG13	20	0.4	0.1	0.4
(1,1826)	1:184:A:ILE:HD13	1:183:A:ILE:HG13	20	0.4	0.1	0.4
(1,588)	1:116:A:TYR:HA	1:115:A:VAL:HB	20	0.35	0.03	0.36
(1,4286)	1:166:A:LYS:H	1:166:A:LYS:HG2	20	0.34	0.04	0.35
(1,511)	1:73:A:THR:H	1:74:A:TRP:HB2	20	0.33	0.06	0.34
(1,40)	1:187:A:THR:H	1:184:A:ILE:H	20	0.31	0.03	0.31
(1,1135)	1:71:A:ARG:H	1:74:A:TRP:H	20	0.31	0.05	0.3
(1,3604)	1:72:A:ILE:HG21	1:73:A:THR:HA	20	0.31	0.04	0.32

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,3604)	1:72:A:ILE:HG22	1:73:A:THR:HA	20	0.31	0.04	0.32
(1,3604)	1:72:A:ILE:HG23	1:73:A:THR:HA	20	0.31	0.04	0.32
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB1	20	0.31	0.04	0.32
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB2	20	0.31	0.04	0.32
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB3	20	0.31	0.04	0.32
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD11	20	0.3	0.07	0.31
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD12	20	0.3	0.07	0.31
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD13	20	0.3	0.07	0.31
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB1	20	0.29	0.03	0.29
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB2	20	0.29	0.03	0.29
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB3	20	0.29	0.03	0.29
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD11	20	0.28	0.02	0.29
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD12	20	0.28	0.02	0.29
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD13	20	0.28	0.02	0.29
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD11	20	0.28	0.05	0.28
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD12	20	0.28	0.05	0.28
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD13	20	0.28	0.05	0.28
(1,2800)	1:203:A:ILE:HD11	1:54:A:ILE:HB	20	0.27	0.05	0.26
(1,2800)	1:203:A:ILE:HD12	1:54:A:ILE:HB	20	0.27	0.05	0.26
(1,2800)	1:203:A:ILE:HD13	1:54:A:ILE:HB	20	0.27	0.05	0.26
(1,144)	1:202:A:GLY:H	1:200:A:LYS:HB2	20	0.26	0.15	0.23
(1,2252)	1:6:A:ILE:H	1:8:A:GLN:HG3	20	0.26	0.24	0.19
(1,3733)	1:3:A:PHE:H	1:4:A:LYS:HA	20	0.26	0.03	0.26
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD11	20	0.26	0.07	0.26
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD12	20	0.26	0.07	0.26
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD13	20	0.26	0.07	0.26
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG21	20	0.25	0.06	0.26
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG22	20	0.25	0.06	0.26
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG23	20	0.25	0.06	0.26
(1,1259)	1:25:A:LYS:H	1:24:A:TRP:HE1	20	0.23	0.17	0.18
(1,2294)	1:153:A:PHE:H	1:154:A:VAL:HB	20	0.23	0.04	0.22
(1,4133)	1:28:A:LYS:H	1:37:A:SER:H	20	0.21	0.06	0.22
(1,4372)	1:206:A:HIS:H	1:203:A:ILE:H	20	0.21	0.08	0.18
(1,1908)	1:15:A:LEU:H	1:15:A:LEU:HG	20	0.21	0.02	0.21
(1,554)	1:61:A:LEU:H	1:59:A:ALA:HA	20	0.21	0.04	0.2
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD11	20	0.2	0.04	0.2
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD12	20	0.2	0.04	0.2
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD13	20	0.2	0.04	0.2
(1,2650)	1:168:A:VAL:H	1:154:A:VAL:HB	20	0.2	0.03	0.18
(1,905)	1:38:A:LYS:H	1:37:A:SER:H	20	0.2	0.03	0.2
(1,2704)	1:162:A:PRO:HA	1:162:A:PRO:HD3	20	0.19	0.03	0.19
(1,878)	1:180:A:SER:H	1:184:A:ILE:HB	20	0.19	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)
(1,2966)	1:17:A:TYR:H	1:15:A:LEU:HG	20	0.18	0.04	0.18
(1,1869)	1:65:A:LEU:H	1:64:A:PHE:HZ	20	0.18	0.03	0.18
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD21	20	0.17	0.03	0.17
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD22	20	0.17	0.03	0.17
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD23	20	0.17	0.03	0.17
(1,665)	1:167:A:LEU:H	1:54:A:ILE:HB	20	0.16	0.04	0.16
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB1	20	0.16	0.02	0.17
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB2	20	0.16	0.02	0.17
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB3	20	0.16	0.02	0.17
(1,1772)	1:157:A:PRO:HG3	1:123:A:ASN:HB2	19	1.35	0.25	1.38
(1,2479)	1:66:A:TYR:H	1:71:A:ARG:HB2	19	1.2	0.41	1.28
(1,3537)	1:28:A:LYS:H	1:28:A:LYS:HD2	19	0.76	0.69	0.24
(1,1642)	1:154:A:VAL:H	1:169:A:MET:HB3	19	0.54	0.21	0.58
(1,1997)	1:33:A:ILE:HG12	1:193:A:VAL:HA	19	0.52	0.18	0.51
(1,2439)	1:202:A:GLY:H	1:198:A:ASN:HB3	19	0.49	0.41	0.21
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD21	19	0.41	0.56	0.18
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD22	19	0.41	0.56	0.18
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD23	19	0.41	0.56	0.18
(1,3694)	1:80:A:VAL:HG21	1:79:A:GLN:HG3	19	0.35	0.59	0.16
(1,3694)	1:80:A:VAL:HG22	1:79:A:GLN:HG3	19	0.35	0.59	0.16
(1,3694)	1:80:A:VAL:HG23	1:79:A:GLN:HG3	19	0.35	0.59	0.16
(1,52)	1:14:A:VAL:HB	1:16:A:GLY:H	19	0.28	0.04	0.27
(1,2020)	1:129:A:SER:H	1:116:A:TYR:H	19	0.23	0.05	0.23
(1,3522)	1:112:A:ILE:H	1:96:A:THR:HB	19	0.23	0.06	0.24
(1,3421)	1:99:A:GLN:H	1:109:A:ARG:H	19	0.22	0.07	0.22
(1,3599)	1:131:A:SER:H	1:132:A:VAL:HA	19	0.21	0.06	0.2
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD11	19	0.2	0.03	0.21
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD12	19	0.2	0.03	0.21
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD13	19	0.2	0.03	0.21
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD11	19	0.2	0.04	0.19
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD12	19	0.2	0.04	0.19
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD13	19	0.2	0.04	0.19
(1,199)	1:10:A:THR:HG21	1:8:A:GLN:H	19	0.2	0.05	0.18
(1,199)	1:10:A:THR:HG22	1:8:A:GLN:H	19	0.2	0.05	0.18
(1,199)	1:10:A:THR:HG23	1:8:A:GLN:H	19	0.2	0.05	0.18
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB1	19	0.18	0.03	0.2
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB2	19	0.18	0.03	0.2
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB3	19	0.18	0.03	0.2
(1,4057)	1:145:A:ARG:H	1:143:A:TYR:HA	19	0.18	0.05	0.17
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG11	19	0.18	0.04	0.17
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG12	19	0.18	0.04	0.17
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG13	19	0.18	0.04	0.17

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,3749)	1:8:A:GLN:H	1:11:A:ALA:H	19	0.18	0.04	0.17
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD11	19	0.17	0.05	0.17
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD12	19	0.17	0.05	0.17
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD13	19	0.17	0.05	0.17
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD11	19	0.17	0.05	0.17
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD12	19	0.17	0.05	0.17
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD13	19	0.17	0.05	0.17
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD11	19	0.17	0.05	0.17
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD12	19	0.17	0.05	0.17
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD13	19	0.17	0.05	0.17
(1,162)	1:167:A:LEU:H	1:168:A:VAL:H	19	0.17	0.03	0.17
(1,1315)	1:37:A:SER:H	1:49:A:ARG:H	19	0.17	0.05	0.17
(1,955)	1:196:A:ILE:HD11	1:167:A:LEU:HG	19	0.16	0.03	0.16
(1,955)	1:196:A:ILE:HD12	1:167:A:LEU:HG	19	0.16	0.03	0.16
(1,955)	1:196:A:ILE:HD13	1:167:A:LEU:HG	19	0.16	0.03	0.16
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD11	19	0.16	0.03	0.15
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD12	19	0.16	0.03	0.15
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD13	19	0.16	0.03	0.15
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD11	19	0.16	0.03	0.15
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD12	19	0.16	0.03	0.15
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD13	19	0.16	0.03	0.15
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD11	19	0.16	0.03	0.15
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD12	19	0.16	0.03	0.15
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD13	19	0.16	0.03	0.15
(1,3360)	1:116:A:TYR:H	1:114:A:LEU:HG	19	0.15	0.04	0.14
(1,4308)	1:70:A:ASP:H	1:71:A:ARG:HB2	18	1.07	0.17	1.08
(1,2892)	1:60:A:LYS:HB3	1:60:A:LYS:HD3	18	0.66	0.25	0.64
(1,3531)	1:88:A:ASP:H	1:86:A:ARG:HB2	18	0.6	0.23	0.6
(1,736)	1:61:A:LEU:HG	1:56:A:GLU:HG2	18	0.59	0.45	0.64
(1,1179)	1:160:A:GLU:H	1:158:A:MET:HG2	18	0.49	0.15	0.49
(1,118)	1:25:A:LYS:H	1:25:A:LYS:HG3	18	0.49	0.31	0.3
(1,1516)	1:168:A:VAL:HG21	1:51:A:GLU:HG2	18	0.46	0.27	0.36
(1,1516)	1:168:A:VAL:HG22	1:51:A:GLU:HG2	18	0.46	0.27	0.36
(1,1516)	1:168:A:VAL:HG23	1:51:A:GLU:HG2	18	0.46	0.27	0.36
(1,3110)	1:72:A:ILE:HA	1:71:A:ARG:HB3	18	0.46	0.07	0.45
(1,1054)	1:114:A:LEU:H	1:131:A:SER:HB2	18	0.4	0.14	0.42
(1,664)	1:140:A:SER:H	1:139:A:PRO:HG3	18	0.39	0.1	0.39
(1,539)	1:206:A:HIS:H	1:202:A:GLY:HA3	18	0.3	0.25	0.18
(1,3732)	1:153:A:PHE:H	1:14:A:VAL:HB	18	0.25	0.06	0.24
(1,3486)	1:36:A:SER:HA	1:24:A:TRP:HA	18	0.23	0.05	0.24
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB1	18	0.2	0.03	0.2
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB2	18	0.2	0.03	0.2

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB3	18	0.2	0.03	0.2
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD11	18	0.18	0.04	0.19
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD12	18	0.18	0.04	0.19
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD13	18	0.18	0.04	0.19
(1,1804)	1:165:A:SER:H	1:55:A:PRO:HD3	18	0.18	0.03	0.18
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB1	18	0.18	0.03	0.18
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB2	18	0.18	0.03	0.18
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB3	18	0.18	0.03	0.18
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG11	18	0.17	0.04	0.16
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG12	18	0.17	0.04	0.16
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG13	18	0.17	0.04	0.16
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG11	18	0.17	0.04	0.16
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG12	18	0.17	0.04	0.16
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG13	18	0.17	0.04	0.16
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG11	18	0.17	0.04	0.16
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG12	18	0.17	0.04	0.16
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG13	18	0.17	0.04	0.16
(1,3567)	1:35:A:VAL:HG21	1:37:A:SER:H	17	1.25	0.3	1.31
(1,3567)	1:35:A:VAL:HG22	1:37:A:SER:H	17	1.25	0.3	1.31
(1,3567)	1:35:A:VAL:HG23	1:37:A:SER:H	17	1.25	0.3	1.31
(1,691)	1:71:A:ARG:HB2	1:68:A:THR:H	17	0.94	0.43	1.05
(1,4220)	1:77:A:SER:HB3	1:78:A:LEU:HG	17	0.93	0.3	0.99
(1,2825)	1:68:A:THR:H	1:71:A:ARG:HB2	17	0.84	0.43	0.95
(1,4028)	1:72:A:ILE:HG13	1:70:A:ASP:H	17	0.67	0.25	0.56
(1,3525)	1:68:A:THR:HG21	1:69:A:GLY:HA3	17	0.63	0.38	0.83
(1,3525)	1:68:A:THR:HG22	1:69:A:GLY:HA3	17	0.63	0.38	0.83
(1,3525)	1:68:A:THR:HG23	1:69:A:GLY:HA3	17	0.63	0.38	0.83
(1,4229)	1:74:A:TRP:H	1:75:A:ASP:HB3	17	0.63	0.13	0.65
(1,227)	1:168:A:VAL:HG21	1:166:A:LYS:HE3	17	0.56	0.17	0.63
(1,227)	1:168:A:VAL:HG22	1:166:A:LYS:HE3	17	0.56	0.17	0.63
(1,227)	1:168:A:VAL:HG23	1:166:A:LYS:HE3	17	0.56	0.17	0.63
(1,983)	1:86:A:ARG:HD3	1:86:A:ARG:HB2	17	0.53	0.21	0.61
(1,949)	1:151:A:CYS:H	1:149:A:HIS:HB2	17	0.52	0.37	0.34
(1,2351)	1:80:A:VAL:H	1:81:A:TYR:HB3	17	0.5	0.37	0.47
(1,2161)	1:73:A:THR:H	1:72:A:ILE:HG13	17	0.5	0.12	0.54
(1,2285)	1:86:A:ARG:HD3	1:86:A:ARG:HA	17	0.5	0.15	0.54
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD21	17	0.29	0.12	0.28
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD22	17	0.29	0.12	0.28
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD23	17	0.29	0.12	0.28
(1,1481)	1:132:A:VAL:HG11	1:130:A:LYS:H	17	0.24	0.07	0.23
(1,1481)	1:132:A:VAL:HG12	1:130:A:LYS:H	17	0.24	0.07	0.23
(1,1481)	1:132:A:VAL:HG13	1:130:A:LYS:H	17	0.24	0.07	0.23

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,4325)	1:203:A:ILE:HG21	1:61:A:LEU:H	17	0.23	0.06	0.24
(1,4325)	1:203:A:ILE:HG22	1:61:A:LEU:H	17	0.23	0.06	0.24
(1,4325)	1:203:A:ILE:HG23	1:61:A:LEU:H	17	0.23	0.06	0.24
(1,1716)	1:134:A:PHE:H	1:112:A:ILE:HB	17	0.22	0.06	0.22
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG21	17	0.21	0.07	0.23
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG22	17	0.21	0.07	0.23
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG23	17	0.21	0.07	0.23
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG21	17	0.19	0.04	0.2
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG22	17	0.19	0.04	0.2
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG23	17	0.19	0.04	0.2
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG21	17	0.19	0.04	0.2
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG22	17	0.19	0.04	0.2
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG23	17	0.19	0.04	0.2
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG21	17	0.19	0.04	0.2
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG22	17	0.19	0.04	0.2
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG23	17	0.19	0.04	0.2
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD21	17	0.15	0.03	0.14
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD22	17	0.15	0.03	0.14
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD23	17	0.15	0.03	0.14
(1,2762)	1:197:A:LEU:H	1:200:A:LYS:H	17	0.14	0.03	0.13
(1,4150)	1:121:A:GLU:H	1:122:A:GLY:H	17	0.13	0.02	0.13
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG11	16	0.94	0.24	0.98
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG12	16	0.94	0.24	0.98
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG13	16	0.94	0.24	0.98
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG11	16	0.84	0.18	0.78
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG12	16	0.84	0.18	0.78
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG13	16	0.84	0.18	0.78
(1,2796)	1:203:A:ILE:HD11	1:63:A:ASP:HB2	16	0.78	0.27	0.74
(1,2796)	1:203:A:ILE:HD12	1:63:A:ASP:HB2	16	0.78	0.27	0.74
(1,2796)	1:203:A:ILE:HD13	1:63:A:ASP:HB2	16	0.78	0.27	0.74
(1,3598)	1:24:A:TRP:HH2	1:36:A:SER:HB3	16	0.57	0.26	0.62
(1,379)	1:69:A:GLY:HA2	1:72:A:ILE:H	16	0.45	0.32	0.32
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG11	16	0.36	0.48	0.14
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG12	16	0.36	0.48	0.14
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG13	16	0.36	0.48	0.14
(1,1033)	1:144:A:ILE:H	1:109:A:ARG:HD3	16	0.35	0.27	0.22
(1,3566)	1:134:A:PHE:HB3	1:132:A:VAL:HB	16	0.23	0.06	0.24
(1,2972)	1:122:A:GLY:H	1:121:A:GLU:HB2	16	0.23	0.02	0.23
(1,4358)	1:71:A:ARG:H	1:74:A:TRP:HD1	16	0.21	0.07	0.2
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB1	16	0.21	0.05	0.2
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB2	16	0.21	0.05	0.2
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB3	16	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)
(1,2144)	1:170:A:PHE:H	1:169:A:MET:H	16	0.18	0.04	0.2
(1,2520)	1:27:A:VAL:H	1:28:A:LYS:HA	16	0.18	0.03	0.18
(1,567)	1:156:A:SER:H	1:166:A:LYS:HA	16	0.17	0.04	0.16
(1,3358)	1:15:A:LEU:HD11	1:12:A:GLN:H	16	0.17	0.04	0.18
(1,3358)	1:15:A:LEU:HD12	1:12:A:GLN:H	16	0.17	0.04	0.18
(1,3358)	1:15:A:LEU:HD13	1:12:A:GLN:H	16	0.17	0.04	0.18
(1,4176)	1:34:A:THR:HG21	1:33:A:ILE:HA	16	0.17	0.06	0.16
(1,4176)	1:34:A:THR:HG22	1:33:A:ILE:HA	16	0.17	0.06	0.16
(1,4176)	1:34:A:THR:HG23	1:33:A:ILE:HA	16	0.17	0.06	0.16
(1,3096)	1:61:A:LEU:HG	1:57:A:SER:HA	16	0.17	0.04	0.16
(1,923)	1:196:A:ILE:HG21	1:193:A:VAL:HB	16	0.16	0.03	0.16
(1,923)	1:196:A:ILE:HG22	1:193:A:VAL:HB	16	0.16	0.03	0.16
(1,923)	1:196:A:ILE:HG23	1:193:A:VAL:HB	16	0.16	0.03	0.16
(1,879)	1:121:A:GLU:H	1:119:A:ARG:H	16	0.15	0.03	0.16
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB1	16	0.13	0.02	0.12
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB2	16	0.13	0.02	0.12
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB3	16	0.13	0.02	0.12
(1,4354)	1:167:A:LEU:H	1:156:A:SER:HB3	15	1.44	0.1	1.43
(1,2897)	1:203:A:ILE:HG21	1:206:A:HIS:HB3	15	0.97	0.47	1.22
(1,2897)	1:203:A:ILE:HG22	1:206:A:HIS:HB3	15	0.97	0.47	1.22
(1,2897)	1:203:A:ILE:HG23	1:206:A:HIS:HB3	15	0.97	0.47	1.22
(1,1489)	1:175:A:MET:H	1:109:A:ARG:HD3	15	0.78	0.37	0.86
(1,3759)	1:48:A:TYR:H	1:170:A:PHE:HB3	15	0.78	0.72	0.37
(1,1066)	1:144:A:ILE:HA	1:109:A:ARG:HG2	15	0.72	0.41	0.84
(1,42)	1:46:A:ASN:HB2	1:45:A:GLY:H	15	0.57	0.37	0.33
(1,741)	1:147:A:TYR:H	1:144:A:ILE:HG12	15	0.56	0.42	0.73
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG21	15	0.43	0.15	0.46
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG22	15	0.43	0.15	0.46
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG23	15	0.43	0.15	0.46
(1,4067)	1:168:A:VAL:HG21	1:51:A:GLU:HB3	15	0.43	0.15	0.45
(1,4067)	1:168:A:VAL:HG22	1:51:A:GLU:HB3	15	0.43	0.15	0.45
(1,4067)	1:168:A:VAL:HG23	1:51:A:GLU:HB3	15	0.43	0.15	0.45
(1,4070)	1:42:A:LYS:HD3	1:42:A:LYS:HB3	15	0.41	0.32	0.26
(1,60)	1:76:A:LYS:HE2	1:76:A:LYS:HD2	15	0.28	0.02	0.28
(1,2287)	1:43:A:PHE:H	1:41:A:ARG:HB3	15	0.28	0.17	0.22
(1,1400)	1:136:A:GLU:HG2	1:136:A:GLU:H	15	0.28	0.03	0.29
(1,3108)	1:204:A:LYS:HA	1:204:A:LYS:HD3	15	0.27	0.22	0.13
(1,3045)	1:136:A:GLU:H	1:137:A:TYR:HB2	15	0.26	0.09	0.25
(1,858)	1:101:A:PHE:H	1:102:A:ALA:H	15	0.23	0.1	0.2
(1,3091)	1:124:A:MET:H	1:119:A:ARG:HA	15	0.18	0.06	0.18
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG21	15	0.17	0.04	0.18
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG22	15	0.17	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)
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG23	15	0.17	0.04	0.18
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG11	15	0.17	0.05	0.15
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG12	15	0.17	0.05	0.15
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG13	15	0.17	0.05	0.15
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG11	15	0.17	0.05	0.15
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG12	15	0.17	0.05	0.15
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG13	15	0.17	0.05	0.15
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG11	15	0.17	0.05	0.15
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG12	15	0.17	0.05	0.15
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG13	15	0.17	0.05	0.15
(1,3260)	1:201:A:ASP:H	1:199:A:ALA:HA	15	0.14	0.04	0.14
(1,4046)	1:183:A:ILE:H	1:184:A:ILE:HB	15	0.14	0.03	0.13
(1,2747)	1:91:A:THR:HG21	1:4:A:LYS:HD3	14	0.76	0.28	0.86
(1,2747)	1:91:A:THR:HG22	1:4:A:LYS:HD3	14	0.76	0.28	0.86
(1,2747)	1:91:A:THR:HG23	1:4:A:LYS:HD3	14	0.76	0.28	0.86
(1,3896)	1:130:A:LYS:H	1:148:A:ASN:HB3	14	0.74	0.3	0.66
(1,1994)	1:176:A:ARG:H	1:109:A:ARG:HD3	14	0.73	0.47	0.78
(1,3342)	1:180:A:SER:HB3	1:183:A:ILE:HG13	14	0.54	0.26	0.51
(1,2332)	1:78:A:LEU:H	1:76:A:LYS:HB2	14	0.31	0.07	0.32
(1,3572)	1:184:A:ILE:H	1:186:A:LYS:HE3	14	0.31	0.24	0.15
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG21	14	0.23	0.19	0.16
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG22	14	0.23	0.19	0.16
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG23	14	0.23	0.19	0.16
(1,3701)	1:180:A:SER:H	1:179:A:LEU:H	14	0.19	0.04	0.2
(1,647)	1:37:A:SER:H	1:25:A:LYS:HB2	14	0.18	0.04	0.18
(1,4259)	1:140:A:SER:H	1:141:A:SER:HA	14	0.16	0.04	0.16
(1,2471)	1:154:A:VAL:HG11	1:124:A:MET:HB3	14	0.15	0.03	0.15
(1,2471)	1:154:A:VAL:HG12	1:124:A:MET:HB3	14	0.15	0.03	0.15
(1,2471)	1:154:A:VAL:HG13	1:124:A:MET:HB3	14	0.15	0.03	0.15
(1,3793)	1:137:A:TYR:H	1:134:A:PHE:HZ	14	0.15	0.04	0.15
(1,2649)	1:54:A:ILE:HG13	1:200:A:LYS:H	14	0.15	0.02	0.15
(1,154)	1:197:A:LEU:HD11	1:198:A:ASN:H	14	0.15	0.06	0.13
(1,154)	1:197:A:LEU:HD12	1:198:A:ASN:H	14	0.15	0.06	0.13
(1,154)	1:197:A:LEU:HD13	1:198:A:ASN:H	14	0.15	0.06	0.13
(1,2545)	1:84:A:VAL:H	1:95:A:HIS:HA	14	0.14	0.02	0.15
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB1	14	0.14	0.03	0.14
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB2	14	0.14	0.03	0.14
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB3	14	0.14	0.03	0.14
(1,1174)	1:126:A:ILE:HD11	1:152:A:GLY:H	14	0.13	0.02	0.12
(1,1174)	1:126:A:ILE:HD12	1:152:A:GLY:H	14	0.13	0.02	0.12
(1,1174)	1:126:A:ILE:HD13	1:152:A:GLY:H	14	0.13	0.02	0.12
(1,2676)	1:206:A:HIS:HA	1:60:A:LYS:HD2	13	1.38	0.44	1.42

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,2366)	1:22:A:SER:H	1:38:A:LYS:HD2	13	1.0	0.4	1.01
(1,2052)	1:109:A:ARG:HB3	1:144:A:ILE:HG13	13	0.81	0.16	0.86
(1,474)	1:144:A:ILE:HG21	1:109:A:ARG:HB3	13	0.48	0.16	0.41
(1,474)	1:144:A:ILE:HG22	1:109:A:ARG:HB3	13	0.48	0.16	0.41
(1,474)	1:144:A:ILE:HG23	1:109:A:ARG:HB3	13	0.48	0.16	0.41
(1,2839)	1:143:A:TYR:HB2	1:139:A:PRO:HB3	13	0.42	0.18	0.4
(1,2572)	1:151:A:CYS:H	1:152:A:GLY:HA3	13	0.3	0.09	0.28
(1,855)	1:192:A:LEU:H	1:50:A:VAL:HG11	13	0.23	0.2	0.14
(1,855)	1:192:A:LEU:H	1:50:A:VAL:HG12	13	0.23	0.2	0.14
(1,855)	1:192:A:LEU:H	1:50:A:VAL:HG13	13	0.23	0.2	0.14
(1,2777)	1:73:A:THR:HG21	1:202:A:GLY:HA2	13	0.2	0.06	0.22
(1,2777)	1:73:A:THR:HG22	1:202:A:GLY:HA2	13	0.2	0.06	0.22
(1,2777)	1:73:A:THR:HG23	1:202:A:GLY:HA2	13	0.2	0.06	0.22
(1,1580)	1:174:A:GLU:H	1:147:A:TYR:HA	13	0.19	0.06	0.2
(1,1295)	1:203:A:ILE:HG21	1:204:A:LYS:HB3	13	0.19	0.07	0.19
(1,1295)	1:203:A:ILE:HG22	1:204:A:LYS:HB3	13	0.19	0.07	0.19
(1,1295)	1:203:A:ILE:HG23	1:204:A:LYS:HB3	13	0.19	0.07	0.19
(1,4106)	1:96:A:THR:H	1:81:A:TYR:HA	13	0.19	0.05	0.19
(1,273)	1:161:A:ASN:H	1:160:A:GLU:HB2	13	0.18	0.03	0.19
(1,2030)	1:28:A:LYS:H	1:34:A:THR:HA	13	0.17	0.05	0.15
(1,3872)	1:203:A:ILE:H	1:61:A:LEU:HD21	13	0.16	0.05	0.14
(1,3872)	1:203:A:ILE:H	1:61:A:LEU:HD22	13	0.16	0.05	0.14
(1,3872)	1:203:A:ILE:H	1:61:A:LEU:HD23	13	0.16	0.05	0.14
(1,3420)	1:95:A:HIS:H	1:112:A:ILE:HG21	13	0.15	0.03	0.15
(1,3420)	1:95:A:HIS:H	1:112:A:ILE:HG22	13	0.15	0.03	0.15
(1,3420)	1:95:A:HIS:H	1:112:A:ILE:HG23	13	0.15	0.03	0.15
(1,903)	1:194:A:ASN:HA	1:196:A:ILE:H	13	0.14	0.02	0.14
(1,934)	1:184:A:ILE:H	1:187:A:THR:HG21	13	0.14	0.02	0.13
(1,934)	1:184:A:ILE:H	1:187:A:THR:HG22	13	0.14	0.02	0.13
(1,934)	1:184:A:ILE:H	1:187:A:THR:HG23	13	0.14	0.02	0.13
(1,2698)	1:132:A:VAL:H	1:130:A:LYS:H	13	0.14	0.03	0.13
(1,3573)	1:184:A:ILE:H	1:187:A:THR:H	13	0.13	0.02	0.12
(1,1343)	1:129:A:SER:HB2	1:127:A:ILE:HG13	12	0.77	0.33	0.87
(1,1589)	1:190:A:SER:HB3	1:102:A:ALA:HB1	12	0.62	0.38	0.62
(1,1589)	1:190:A:SER:HB3	1:102:A:ALA:HB2	12	0.62	0.38	0.62
(1,1589)	1:190:A:SER:HB3	1:102:A:ALA:HB3	12	0.62	0.38	0.62
(1,1171)	1:76:A:LYS:HD3	1:76:A:LYS:HA	12	0.6	0.51	0.27
(1,564)	1:173:A:THR:HA	1:171:A:VAL:HG11	12	0.54	0.33	0.6
(1,564)	1:173:A:THR:HA	1:171:A:VAL:HG12	12	0.54	0.33	0.6
(1,564)	1:173:A:THR:HA	1:171:A:VAL:HG13	12	0.54	0.33	0.6
(1,3239)	1:133:A:ASP:HB2	1:132:A:VAL:HG11	12	0.49	0.47	0.38
(1,3239)	1:133:A:ASP:HB2	1:132:A:VAL:HG12	12	0.49	0.47	0.38

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,3239)	1:133:A:ASP:HB2	1:132:A:VAL:HG13	12	0.49	0.47	0.38
(1,1768)	1:128:A:SER:H	1:152:A:GLY:HA2	12	0.49	0.21	0.52
(1,258)	1:42:A:LYS:H	1:42:A:LYS:HD2	12	0.44	0.26	0.38
(1,1252)	1:130:A:LYS:HB3	1:7:A:ALA:HA	12	0.38	0.25	0.36
(1,256)	1:144:A:ILE:H	1:109:A:ARG:HB3	12	0.33	0.13	0.35
(1,3898)	1:166:A:LYS:H	1:156:A:SER:HB3	12	0.29	0.06	0.3
(1,4087)	1:207:A:ARG:H	1:204:A:LYS:HB3	12	0.26	0.19	0.16
(1,2284)	1:34:A:THR:HG21	1:26:A:VAL:HG21	12	0.23	0.06	0.22
(1,2284)	1:34:A:THR:HG21	1:26:A:VAL:HG22	12	0.23	0.06	0.22
(1,2284)	1:34:A:THR:HG21	1:26:A:VAL:HG23	12	0.23	0.06	0.22
(1,2284)	1:34:A:THR:HG22	1:26:A:VAL:HG21	12	0.23	0.06	0.22
(1,2284)	1:34:A:THR:HG22	1:26:A:VAL:HG22	12	0.23	0.06	0.22
(1,2284)	1:34:A:THR:HG22	1:26:A:VAL:HG23	12	0.23	0.06	0.22
(1,2284)	1:34:A:THR:HG23	1:26:A:VAL:HG21	12	0.23	0.06	0.22
(1,2284)	1:34:A:THR:HG23	1:26:A:VAL:HG22	12	0.23	0.06	0.22
(1,2284)	1:34:A:THR:HG23	1:26:A:VAL:HG23	12	0.23	0.06	0.22
(1,4180)	1:81:A:TYR:H	1:68:A:THR:HA	12	0.22	0.07	0.22
(1,756)	1:26:A:VAL:HG21	1:37:A:SER:H	12	0.16	0.03	0.15
(1,756)	1:26:A:VAL:HG22	1:37:A:SER:H	12	0.16	0.03	0.15
(1,756)	1:26:A:VAL:HG23	1:37:A:SER:H	12	0.16	0.03	0.15
(1,1451)	1:114:A:LEU:HD11	1:93:A:ILE:HB	12	0.12	0.01	0.12
(1,1451)	1:114:A:LEU:HD12	1:93:A:ILE:HB	12	0.12	0.01	0.12
(1,1451)	1:114:A:LEU:HD13	1:93:A:ILE:HB	12	0.12	0.01	0.12
(1,368)	1:192:A:LEU:HG	1:171:A:VAL:HG21	11	0.89	0.54	0.97
(1,368)	1:192:A:LEU:HG	1:171:A:VAL:HG22	11	0.89	0.54	0.97
(1,368)	1:192:A:LEU:HG	1:171:A:VAL:HG23	11	0.89	0.54	0.97
(1,3034)	1:144:A:ILE:HG12	1:109:A:ARG:HG2	11	0.82	0.25	0.91
(1,3684)	1:61:A:LEU:H	1:56:A:GLU:HG2	11	0.8	0.58	0.5
(1,3202)	1:160:A:GLU:HG3	1:159:A:GLU:HA	11	0.71	0.06	0.74
(1,749)	1:105:A:SER:HB2	1:179:A:LEU:HG	11	0.64	0.59	0.39
(1,3719)	1:67:A:GLN:HA	1:71:A:ARG:HG3	11	0.54	0.35	0.4
(1,2427)	1:129:A:SER:HB3	1:152:A:GLY:HA3	11	0.54	0.3	0.41
(1,3079)	1:130:A:LYS:HB3	1:132:A:VAL:HG11	11	0.49	0.1	0.5
(1,3079)	1:130:A:LYS:HB3	1:132:A:VAL:HG12	11	0.49	0.1	0.5
(1,3079)	1:130:A:LYS:HB3	1:132:A:VAL:HG13	11	0.49	0.1	0.5
(1,2272)	1:64:A:PHE:HZ	1:65:A:LEU:HD21	11	0.45	0.13	0.51
(1,2272)	1:64:A:PHE:HZ	1:65:A:LEU:HD22	11	0.45	0.13	0.51
(1,2272)	1:64:A:PHE:HZ	1:65:A:LEU:HD23	11	0.45	0.13	0.51
(1,4113)	1:98:A:THR:HG21	1:109:A:ARG:HG3	11	0.45	0.14	0.48
(1,4113)	1:98:A:THR:HG22	1:109:A:ARG:HG3	11	0.45	0.14	0.48
(1,4113)	1:98:A:THR:HG23	1:109:A:ARG:HG3	11	0.45	0.14	0.48
(1,2404)	1:157:A:PRO:HD2	1:122:A:GLY:HA3	11	0.41	0.26	0.35

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,833)	1:60:A:LYS:HE3	1:203:A:ILE:HD11	11	0.4	0.24	0.27
(1,833)	1:60:A:LYS:HE3	1:203:A:ILE:HD12	11	0.4	0.24	0.27
(1,833)	1:60:A:LYS:HE3	1:203:A:ILE:HD13	11	0.4	0.24	0.27
(1,3173)	1:61:A:LEU:H	1:63:A:ASP:HB2	11	0.31	0.1	0.3
(1,2988)	1:137:A:TYR:H	1:135:A:PRO:HB2	11	0.28	0.05	0.28
(1,3242)	1:168:A:VAL:H	1:155:A:CYS:HB2	11	0.26	0.02	0.26
(1,3717)	1:37:A:SER:H	1:24:A:TRP:HA	11	0.15	0.03	0.14
(1,251)	1:61:A:LEU:HG	1:203:A:ILE:HG21	11	0.14	0.02	0.15
(1,251)	1:61:A:LEU:HG	1:203:A:ILE:HG22	11	0.14	0.02	0.15
(1,251)	1:61:A:LEU:HG	1:203:A:ILE:HG23	11	0.14	0.02	0.15
(1,4291)	1:91:A:THR:HG21	1:93:A:ILE:HG21	11	0.14	0.03	0.13
(1,4291)	1:91:A:THR:HG21	1:93:A:ILE:HG22	11	0.14	0.03	0.13
(1,4291)	1:91:A:THR:HG21	1:93:A:ILE:HG23	11	0.14	0.03	0.13
(1,4291)	1:91:A:THR:HG22	1:93:A:ILE:HG21	11	0.14	0.03	0.13
(1,4291)	1:91:A:THR:HG22	1:93:A:ILE:HG22	11	0.14	0.03	0.13
(1,4291)	1:91:A:THR:HG22	1:93:A:ILE:HG23	11	0.14	0.03	0.13
(1,4291)	1:91:A:THR:HG23	1:93:A:ILE:HG21	11	0.14	0.03	0.13
(1,4291)	1:91:A:THR:HG23	1:93:A:ILE:HG22	11	0.14	0.03	0.13
(1,4291)	1:91:A:THR:HG23	1:93:A:ILE:HG23	11	0.14	0.03	0.13
(1,2513)	1:60:A:LYS:H	1:61:A:LEU:HD21	11	0.13	0.02	0.13
(1,2513)	1:60:A:LYS:H	1:61:A:LEU:HD22	11	0.13	0.02	0.13
(1,2513)	1:60:A:LYS:H	1:61:A:LEU:HD23	11	0.13	0.02	0.13
(1,1082)	1:194:A:ASN:H	1:193:A:VAL:HB	11	0.13	0.02	0.14
(1,2606)	1:159:A:GLU:HA	1:158:A:MET:HB3	11	0.13	0.03	0.12
(1,320)	1:25:A:LYS:H	1:25:A:LYS:HE3	10	1.0	0.36	1.02
(1,2689)	1:105:A:SER:HB3	1:102:A:ALA:HB1	10	0.97	0.57	1.1
(1,2689)	1:105:A:SER:HB3	1:102:A:ALA:HB2	10	0.97	0.57	1.1
(1,2689)	1:105:A:SER:HB3	1:102:A:ALA:HB3	10	0.97	0.57	1.1
(1,3)	1:76:A:LYS:HE3	1:197:A:LEU:HD11	10	0.94	0.41	1.08
(1,3)	1:76:A:LYS:HE3	1:197:A:LEU:HD12	10	0.94	0.41	1.08
(1,3)	1:76:A:LYS:HE3	1:197:A:LEU:HD13	10	0.94	0.41	1.08
(1,1694)	1:137:A:TYR:HB3	1:136:A:GLU:HG3	10	0.85	0.58	0.7
(1,2640)	1:64:A:PHE:H	1:65:A:LEU:HD21	10	0.84	0.1	0.83
(1,2640)	1:64:A:PHE:H	1:65:A:LEU:HD22	10	0.84	0.1	0.83
(1,2640)	1:64:A:PHE:H	1:65:A:LEU:HD23	10	0.84	0.1	0.83
(1,2167)	1:60:A:LYS:HG3	1:61:A:LEU:HD21	10	0.8	0.5	0.8
(1,2167)	1:60:A:LYS:HG3	1:61:A:LEU:HD22	10	0.8	0.5	0.8
(1,2167)	1:60:A:LYS:HG3	1:61:A:LEU:HD23	10	0.8	0.5	0.8
(1,3778)	1:76:A:LYS:HE3	1:76:A:LYS:HG3	10	0.79	0.22	0.82
(1,1874)	1:153:A:PHE:HB2	1:65:A:LEU:HD11	10	0.66	0.25	0.64
(1,1874)	1:153:A:PHE:HB2	1:65:A:LEU:HD12	10	0.66	0.25	0.64
(1,1874)	1:153:A:PHE:HB2	1:65:A:LEU:HD13	10	0.66	0.25	0.64

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,4228)	1:170:A:PHE:H	1:171:A:VAL:HG11	10	0.62	0.31	0.62
(1,4228)	1:170:A:PHE:H	1:171:A:VAL:HG12	10	0.62	0.31	0.62
(1,4228)	1:170:A:PHE:H	1:171:A:VAL:HG13	10	0.62	0.31	0.62
(1,2525)	1:33:A:ILE:HD11	1:50:A:VAL:HG11	10	0.6	0.78	0.2
(1,2525)	1:33:A:ILE:HD11	1:50:A:VAL:HG12	10	0.6	0.78	0.2
(1,2525)	1:33:A:ILE:HD11	1:50:A:VAL:HG13	10	0.6	0.78	0.2
(1,2525)	1:33:A:ILE:HD12	1:50:A:VAL:HG11	10	0.6	0.78	0.2
(1,2525)	1:33:A:ILE:HD12	1:50:A:VAL:HG12	10	0.6	0.78	0.2
(1,2525)	1:33:A:ILE:HD12	1:50:A:VAL:HG13	10	0.6	0.78	0.2
(1,2525)	1:33:A:ILE:HD13	1:50:A:VAL:HG11	10	0.6	0.78	0.2
(1,2525)	1:33:A:ILE:HD13	1:50:A:VAL:HG12	10	0.6	0.78	0.2
(1,2525)	1:33:A:ILE:HD13	1:50:A:VAL:HG13	10	0.6	0.78	0.2
(1,1683)	1:119:A:ARG:H	1:119:A:ARG:HD2	10	0.59	0.49	0.41
(1,1310)	1:42:A:LYS:H	1:42:A:LYS:HE2	10	0.56	0.32	0.66
(1,4170)	1:144:A:ILE:H	1:109:A:ARG:HG2	10	0.5	0.32	0.46
(1,3862)	1:109:A:ARG:HG2	1:144:A:ILE:HG12	10	0.47	0.22	0.52
(1,3473)	1:1:A:MET:HA	1:4:A:LYS:HB3	10	0.43	0.35	0.28
(1,1302)	1:198:A:ASN:H	1:76:A:LYS:HG3	10	0.4	0.29	0.24
(1,958)	1:76:A:LYS:HE2	1:76:A:LYS:HG3	10	0.36	0.12	0.36
(1,268)	1:43:A:PHE:H	1:44:A:HIS:HA	10	0.26	0.21	0.15
(1,816)	1:162:A:PRO:HA	1:158:A:MET:H	10	0.17	0.04	0.16
(1,2742)	1:4:A:LYS:H	1:2:A:ASP:HA	10	0.16	0.03	0.16
(1,3589)	1:186:A:LYS:H	1:106:A:ILE:HD11	10	0.16	0.04	0.16
(1,3589)	1:186:A:LYS:H	1:106:A:ILE:HD12	10	0.16	0.04	0.16
(1,3589)	1:186:A:LYS:H	1:106:A:ILE:HD13	10	0.16	0.04	0.16
(1,1924)	1:6:A:ILE:HD11	1:5:A:ALA:HA	10	0.16	0.03	0.16
(1,1924)	1:6:A:ILE:HD12	1:5:A:ALA:HA	10	0.16	0.03	0.16
(1,1924)	1:6:A:ILE:HD13	1:5:A:ALA:HA	10	0.16	0.03	0.16
(1,857)	1:185:A:GLU:H	1:187:A:THR:HG21	10	0.15	0.03	0.14
(1,857)	1:185:A:GLU:H	1:187:A:THR:HG22	10	0.15	0.03	0.14
(1,857)	1:185:A:GLU:H	1:187:A:THR:HG23	10	0.15	0.03	0.14
(1,3026)	1:26:A:VAL:HG21	1:27:A:VAL:HA	10	0.14	0.05	0.12
(1,3026)	1:26:A:VAL:HG22	1:27:A:VAL:HA	10	0.14	0.05	0.12
(1,3026)	1:26:A:VAL:HG23	1:27:A:VAL:HA	10	0.14	0.05	0.12
(1,2003)	1:184:A:ILE:HA	1:187:A:THR:HG21	10	0.11	0.01	0.11
(1,2003)	1:184:A:ILE:HA	1:187:A:THR:HG22	10	0.11	0.01	0.11
(1,2003)	1:184:A:ILE:HA	1:187:A:THR:HG23	10	0.11	0.01	0.11
(1,4353)	1:187:A:THR:HG21	1:184:A:ILE:HA	10	0.11	0.01	0.11
(1,4353)	1:187:A:THR:HG22	1:184:A:ILE:HA	10	0.11	0.01	0.11
(1,4353)	1:187:A:THR:HG23	1:184:A:ILE:HA	10	0.11	0.01	0.11
(1,4328)	1:126:A:ILE:H	1:155:A:CYS:HB2	9	1.33	0.08	1.33
(1,2065)	1:102:A:ALA:HB1	1:105:A:SER:HB3	9	0.85	0.54	1.3

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,2065)	1:102:A:ALA:HB2	1:105:A:SER:HB3	9	0.85	0.54	1.3
(1,2065)	1:102:A:ALA:HB3	1:105:A:SER:HB3	9	0.85	0.54	1.3
(1,2629)	1:84:A:VAL:H	1:83:A:MET:HG2	9	0.68	0.19	0.72
(1,889)	1:125:A:ASN:H	1:155:A:CYS:HB2	9	0.63	0.07	0.63
(1,1405)	1:42:A:LYS:HB3	1:43:A:PHE:HB2	9	0.62	0.35	0.66
(1,335)	1:14:A:VAL:H	1:13:A:GLU:HG2	9	0.52	0.21	0.61
(1,201)	1:91:A:THR:H	1:89:A:SER:HB2	9	0.48	0.16	0.54
(1,3487)	1:184:A:ILE:H	1:185:A:GLU:HG3	9	0.4	0.14	0.42
(1,2179)	1:95:A:HIS:H	1:82:A:ASN:HB3	9	0.36	0.16	0.39
(1,666)	1:137:A:TYR:HB2	1:112:A:ILE:HG12	9	0.35	0.1	0.35
(1,3513)	1:211:A:ARG:HA	1:211:A:ARG:HD2	9	0.3	0.11	0.36
(1,1570)	1:175:A:MET:H	1:174:A:GLU:HG3	9	0.28	0.12	0.23
(1,584)	1:33:A:ILE:HG13	1:196:A:ILE:HG21	9	0.26	0.09	0.3
(1,584)	1:33:A:ILE:HG13	1:196:A:ILE:HG22	9	0.26	0.09	0.3
(1,584)	1:33:A:ILE:HG13	1:196:A:ILE:HG23	9	0.26	0.09	0.3
(1,710)	1:150:A:PRO:HB2	1:14:A:VAL:HG21	9	0.24	0.21	0.16
(1,710)	1:150:A:PRO:HB2	1:14:A:VAL:HG22	9	0.24	0.21	0.16
(1,710)	1:150:A:PRO:HB2	1:14:A:VAL:HG23	9	0.24	0.21	0.16
(1,3673)	1:65:A:LEU:H	1:66:A:TYR:HA	9	0.21	0.08	0.19
(1,3600)	1:82:A:ASN:H	1:83:A:MET:HB2	9	0.2	0.03	0.2
(1,4139)	1:18:A:ASN:H	1:17:A:TYR:HB3	9	0.19	0.05	0.19
(1,3250)	1:71:A:ARG:H	1:68:A:THR:HA	9	0.19	0.05	0.19
(1,3936)	1:183:A:ILE:H	1:179:A:LEU:HB2	9	0.17	0.04	0.16
(1,906)	1:98:A:THR:HG21	1:96:A:THR:HG21	9	0.17	0.06	0.15
(1,906)	1:98:A:THR:HG21	1:96:A:THR:HG22	9	0.17	0.06	0.15
(1,906)	1:98:A:THR:HG21	1:96:A:THR:HG23	9	0.17	0.06	0.15
(1,906)	1:98:A:THR:HG22	1:96:A:THR:HG21	9	0.17	0.06	0.15
(1,906)	1:98:A:THR:HG22	1:96:A:THR:HG22	9	0.17	0.06	0.15
(1,906)	1:98:A:THR:HG22	1:96:A:THR:HG23	9	0.17	0.06	0.15
(1,906)	1:98:A:THR:HG23	1:96:A:THR:HG21	9	0.17	0.06	0.15
(1,906)	1:98:A:THR:HG23	1:96:A:THR:HG22	9	0.17	0.06	0.15
(1,906)	1:98:A:THR:HG23	1:96:A:THR:HG23	9	0.17	0.06	0.15
(1,151)	1:129:A:SER:H	1:150:A:PRO:HA	9	0.14	0.02	0.13
(1,77)	1:199:A:ALA:HB1	1:54:A:ILE:HB	9	0.13	0.02	0.12
(1,77)	1:199:A:ALA:HB2	1:54:A:ILE:HB	9	0.13	0.02	0.12
(1,77)	1:199:A:ALA:HB3	1:54:A:ILE:HB	9	0.13	0.02	0.12
(1,240)	1:128:A:SER:H	1:126:A:ILE:HB	9	0.12	0.02	0.12
(1,3918)	1:172:A:GLN:H	1:173:A:THR:HG21	9	0.12	0.03	0.12
(1,3918)	1:172:A:GLN:H	1:173:A:THR:HG22	9	0.12	0.03	0.12
(1,3918)	1:172:A:GLN:H	1:173:A:THR:HG23	9	0.12	0.03	0.12
(2,63)	1:61:A:LEU:O	1:65:A:LEU:N	9	0.12	0.01	0.12
(2,64)	1:65:A:LEU:N	1:61:A:LEU:O	9	0.12	0.01	0.12

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1771)	1:63:A:ASP:H	1:61:A:LEU:HB2	9	0.12	0.01	0.12
(1,169)	1:76:A:LYS:HE3	1:194:A:ASN:HA	8	1.54	0.17	1.57
(1,402)	1:194:A:ASN:HA	1:76:A:LYS:HE3	8	1.14	0.17	1.17
(1,2564)	1:20:A:ASP:H	1:19:A:ARG:HG2	8	1.04	0.06	1.02
(1,4367)	1:68:A:THR:HG21	1:83:A:MET:HG3	8	0.86	0.38	0.91
(1,4367)	1:68:A:THR:HG22	1:83:A:MET:HG3	8	0.86	0.38	0.91
(1,4367)	1:68:A:THR:HG23	1:83:A:MET:HG3	8	0.86	0.38	0.91
(1,1207)	1:90:A:ASP:H	1:4:A:LYS:HE3	8	0.82	0.46	0.76
(1,1988)	1:83:A:MET:HG3	1:68:A:THR:HG21	8	0.76	0.38	0.81
(1,1988)	1:83:A:MET:HG3	1:68:A:THR:HG22	8	0.76	0.38	0.81
(1,1988)	1:83:A:MET:HG3	1:68:A:THR:HG23	8	0.76	0.38	0.81
(1,134)	1:137:A:TYR:HB3	1:134:A:PHE:HZ	8	0.73	0.09	0.76
(1,19)	1:106:A:ILE:HG21	1:109:A:ARG:HD2	8	0.6	0.35	0.66
(1,19)	1:106:A:ILE:HG22	1:109:A:ARG:HD2	8	0.6	0.35	0.66
(1,19)	1:106:A:ILE:HG23	1:109:A:ARG:HD2	8	0.6	0.35	0.66
(1,1599)	1:173:A:THR:H	1:172:A:GLN:HG3	8	0.56	0.3	0.46
(1,532)	1:194:A:ASN:HB3	1:76:A:LYS:HG3	8	0.51	0.31	0.43
(1,260)	1:145:A:ARG:HG3	1:147:A:TYR:HA	8	0.49	0.24	0.47
(1,3580)	1:137:A:TYR:HB3	1:112:A:ILE:HG12	8	0.44	0.19	0.46
(1,2766)	1:159:A:GLU:HB3	1:160:A:GLU:HG3	8	0.41	0.13	0.37
(1,1151)	1:18:A:ASN:HB2	1:49:A:ARG:HG3	8	0.34	0.3	0.16
(1,2818)	1:60:A:LYS:H	1:60:A:LYS:HD3	8	0.31	0.08	0.34
(1,1823)	1:207:A:ARG:HA	1:207:A:ARG:HG2	8	0.26	0.14	0.22
(1,2834)	1:207:A:ARG:H	1:207:A:ARG:HG3	8	0.21	0.08	0.19
(1,3463)	1:40:A:SER:H	1:45:A:GLY:HA3	8	0.19	0.11	0.14
(1,4061)	1:179:A:LEU:H	1:179:A:LEU:HD21	8	0.19	0.11	0.15
(1,4061)	1:179:A:LEU:H	1:179:A:LEU:HD22	8	0.19	0.11	0.15
(1,4061)	1:179:A:LEU:H	1:179:A:LEU:HD23	8	0.19	0.11	0.15
(1,23)	1:98:A:THR:HG21	1:110:A:ASP:H	8	0.18	0.05	0.16
(1,23)	1:98:A:THR:HG22	1:110:A:ASP:H	8	0.18	0.05	0.16
(1,23)	1:98:A:THR:HG23	1:110:A:ASP:H	8	0.18	0.05	0.16
(1,1581)	1:22:A:SER:H	1:21:A:THR:HG21	8	0.18	0.05	0.18
(1,1581)	1:22:A:SER:H	1:21:A:THR:HG22	8	0.18	0.05	0.18
(1,1581)	1:22:A:SER:H	1:21:A:THR:HG23	8	0.18	0.05	0.18
(1,1937)	1:176:A:ARG:H	1:174:A:GLU:HA	8	0.18	0.04	0.19
(1,4246)	1:144:A:ILE:H	1:110:A:ASP:HA	8	0.16	0.04	0.16
(1,1438)	1:192:A:LEU:HG	1:188:A:MET:HB3	8	0.16	0.03	0.16
(1,2739)	1:211:A:ARG:HA	1:214:A:PHE:HA	8	0.15	0.04	0.14
(1,3646)	1:54:A:ILE:HD11	1:203:A:ILE:HG21	8	0.15	0.03	0.15
(1,3646)	1:54:A:ILE:HD11	1:203:A:ILE:HG22	8	0.15	0.03	0.15
(1,3646)	1:54:A:ILE:HD11	1:203:A:ILE:HG23	8	0.15	0.03	0.15
(1,3646)	1:54:A:ILE:HD12	1:203:A:ILE:HG21	8	0.15	0.03	0.15

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,3646)	1:54:A:ILE:HD12	1:203:A:ILE:HG22	8	0.15	0.03	0.15
(1,3646)	1:54:A:ILE:HD12	1:203:A:ILE:HG23	8	0.15	0.03	0.15
(1,3646)	1:54:A:ILE:HD13	1:203:A:ILE:HG21	8	0.15	0.03	0.15
(1,3646)	1:54:A:ILE:HD13	1:203:A:ILE:HG22	8	0.15	0.03	0.15
(1,3646)	1:54:A:ILE:HD13	1:203:A:ILE:HG23	8	0.15	0.03	0.15
(1,2137)	1:198:A:ASN:H	1:196:A:ILE:HA	8	0.14	0.04	0.13
(1,4359)	1:72:A:ILE:HA	1:76:A:LYS:H	8	0.14	0.02	0.12
(1,704)	1:109:A:ARG:H	1:97:A:ILE:HG21	8	0.14	0.04	0.12
(1,704)	1:109:A:ARG:H	1:97:A:ILE:HG22	8	0.14	0.04	0.12
(1,704)	1:109:A:ARG:H	1:97:A:ILE:HG23	8	0.14	0.04	0.12
(1,2832)	1:126:A:ILE:H	1:154:A:VAL:HB	8	0.13	0.03	0.12
(1,1822)	1:56:A:GLU:H	1:53:A:ILE:HG21	8	0.12	0.01	0.12
(1,1822)	1:56:A:GLU:H	1:53:A:ILE:HG22	8	0.12	0.01	0.12
(1,1822)	1:56:A:GLU:H	1:53:A:ILE:HG23	8	0.12	0.01	0.12
(1,2370)	1:155:A:CYS:H	1:126:A:ILE:HG21	8	0.12	0.02	0.11
(1,2370)	1:155:A:CYS:H	1:126:A:ILE:HG22	8	0.12	0.02	0.11
(1,2370)	1:155:A:CYS:H	1:126:A:ILE:HG23	8	0.12	0.02	0.11
(1,1544)	1:36:A:SER:H	1:26:A:VAL:HG11	7	1.58	0.17	1.68
(1,1544)	1:36:A:SER:H	1:26:A:VAL:HG12	7	1.58	0.17	1.68
(1,1544)	1:36:A:SER:H	1:26:A:VAL:HG13	7	1.58	0.17	1.68
(1,3350)	1:24:A:TRP:HD1	1:38:A:LYS:HG3	7	1.37	0.58	1.71
(1,731)	1:46:A:ASN:HB3	1:47:A:LEU:HB3	7	1.21	0.13	1.23
(1,4383)	1:137:A:TYR:HB3	1:136:A:GLU:HB3	7	0.91	0.52	1.18
(1,359)	1:34:A:THR:HB	1:26:A:VAL:HG11	7	0.9	0.27	1.03
(1,359)	1:34:A:THR:HB	1:26:A:VAL:HG12	7	0.9	0.27	1.03
(1,359)	1:34:A:THR:HB	1:26:A:VAL:HG13	7	0.9	0.27	1.03
(1,2014)	1:18:A:ASN:HB2	1:15:A:LEU:HB2	7	0.89	0.42	1.03
(1,287)	1:26:A:VAL:H	1:25:A:LYS:HE3	7	0.86	0.37	0.79
(1,2499)	1:197:A:LEU:H	1:198:A:ASN:HB2	7	0.82	0.05	0.83
(1,1076)	1:146:A:GLY:H	1:109:A:ARG:HD3	7	0.77	0.39	0.77
(1,3900)	1:102:A:ALA:HA	1:103:A:VAL:HG21	7	0.77	0.28	0.65
(1,3900)	1:102:A:ALA:HA	1:103:A:VAL:HG22	7	0.77	0.28	0.65
(1,3900)	1:102:A:ALA:HA	1:103:A:VAL:HG23	7	0.77	0.28	0.65
(1,993)	1:60:A:LYS:HG3	1:63:A:ASP:HB2	7	0.67	0.37	0.59
(1,3344)	1:38:A:LYS:H	1:46:A:ASN:HB3	7	0.65	0.1	0.7
(1,2501)	1:37:A:SER:H	1:26:A:VAL:HG11	7	0.55	0.04	0.56
(1,2501)	1:37:A:SER:H	1:26:A:VAL:HG12	7	0.55	0.04	0.56
(1,2501)	1:37:A:SER:H	1:26:A:VAL:HG13	7	0.55	0.04	0.56
(1,195)	1:127:A:ILE:HD11	1:67:A:GLN:HG3	7	0.5	0.42	0.45
(1,195)	1:127:A:ILE:HD12	1:67:A:GLN:HG3	7	0.5	0.42	0.45
(1,195)	1:127:A:ILE:HD13	1:67:A:GLN:HG3	7	0.5	0.42	0.45
(1,1508)	1:129:A:SER:HB3	1:113:A:ASP:H	7	0.35	0.19	0.26

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,2637)	1:187:A:THR:HG21	1:175:A:MET:HG3	7	0.34	0.18	0.26
(1,2637)	1:187:A:THR:HG22	1:175:A:MET:HG3	7	0.34	0.18	0.26
(1,2637)	1:187:A:THR:HG23	1:175:A:MET:HG3	7	0.34	0.18	0.26
(1,1305)	1:160:A:GLU:H	1:159:A:GLU:HB2	7	0.33	0.1	0.33
(1,1556)	1:160:A:GLU:H	1:159:A:GLU:HB2	7	0.33	0.1	0.33
(1,792)	1:21:A:THR:H	1:22:A:SER:HB2	7	0.28	0.08	0.23
(1,1809)	1:2:A:ASP:HB2	1:5:A:ALA:HB1	7	0.25	0.11	0.2
(1,1809)	1:2:A:ASP:HB2	1:5:A:ALA:HB2	7	0.25	0.11	0.2
(1,1809)	1:2:A:ASP:HB2	1:5:A:ALA:HB3	7	0.25	0.11	0.2
(1,3623)	1:13:A:GLU:H	1:13:A:GLU:HG2	7	0.25	0.2	0.19
(1,2998)	1:28:A:LYS:H	1:26:A:VAL:HB	7	0.2	0.03	0.19
(1,1431)	1:203:A:ILE:HD11	1:60:A:LYS:HD3	7	0.18	0.05	0.16
(1,1431)	1:203:A:ILE:HD12	1:60:A:LYS:HD3	7	0.18	0.05	0.16
(1,1431)	1:203:A:ILE:HD13	1:60:A:LYS:HD3	7	0.18	0.05	0.16
(1,1253)	1:63:A:ASP:H	1:62:A:SER:HB3	7	0.17	0.04	0.16
(1,3027)	1:26:A:VAL:H	1:26:A:VAL:HG21	7	0.16	0.02	0.16
(1,3027)	1:26:A:VAL:H	1:26:A:VAL:HG22	7	0.16	0.02	0.16
(1,3027)	1:26:A:VAL:H	1:26:A:VAL:HG23	7	0.16	0.02	0.16
(1,4095)	1:162:A:PRO:HA	1:58:A:PRO:HG2	7	0.15	0.03	0.15
(1,558)	1:34:A:THR:HG21	1:26:A:VAL:H	7	0.14	0.03	0.14
(1,558)	1:34:A:THR:HG22	1:26:A:VAL:H	7	0.14	0.03	0.14
(1,558)	1:34:A:THR:HG23	1:26:A:VAL:H	7	0.14	0.03	0.14
(1,2697)	1:31:A:LYS:H	1:32:A:LYS:HA	7	0.14	0.03	0.13
(1,3683)	1:50:A:VAL:H	1:168:A:VAL:HA	7	0.13	0.03	0.12
(1,2991)	1:143:A:TYR:H	1:144:A:ILE:HG21	7	0.13	0.02	0.12
(1,2991)	1:143:A:TYR:H	1:144:A:ILE:HG22	7	0.13	0.02	0.12
(1,2991)	1:143:A:TYR:H	1:144:A:ILE:HG23	7	0.13	0.02	0.12
(1,349)	1:205:A:ALA:H	1:201:A:ASP:HA	7	0.12	0.01	0.12
(1,124)	1:53:A:ILE:H	1:53:A:ILE:HD11	7	0.12	0.01	0.12
(1,124)	1:53:A:ILE:H	1:53:A:ILE:HD12	7	0.12	0.01	0.12
(1,124)	1:53:A:ILE:H	1:53:A:ILE:HD13	7	0.12	0.01	0.12
(1,3441)	1:79:A:GLN:HB2	1:99:A:GLN:HG3	6	1.39	0.23	1.46
(1,4193)	1:24:A:TRP:HZ3	1:49:A:ARG:H	6	1.29	1.43	0.4
(1,2866)	1:147:A:TYR:H	1:176:A:ARG:HB2	6	1.05	0.4	1.02
(1,4343)	1:193:A:VAL:HG11	1:194:A:ASN:HB2	6	0.94	0.14	0.9
(1,4343)	1:193:A:VAL:HG12	1:194:A:ASN:HB2	6	0.94	0.14	0.9
(1,4343)	1:193:A:VAL:HG13	1:194:A:ASN:HB2	6	0.94	0.14	0.9
(1,4327)	1:207:A:ARG:HD2	1:207:A:ARG:HA	6	0.7	0.15	0.8
(1,3888)	1:97:A:ILE:HG21	1:99:A:GLN:HG3	6	0.67	0.26	0.72
(1,3888)	1:97:A:ILE:HG22	1:99:A:GLN:HG3	6	0.67	0.26	0.72
(1,3888)	1:97:A:ILE:HG23	1:99:A:GLN:HG3	6	0.67	0.26	0.72
(1,4166)	1:99:A:GLN:HG3	1:97:A:ILE:HG21	6	0.67	0.26	0.72

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,4166)	1:99:A:GLN:HG3	1:97:A:ILE:HG22	6	0.67	0.26	0.72
(1,4166)	1:99:A:GLN:HG3	1:97:A:ILE:HG23	6	0.67	0.26	0.72
(1,1517)	1:113:A:ASP:H	1:94:A:CYS:HB2	6	0.57	0.2	0.66
(1,599)	1:39:A:ALA:H	1:46:A:ASN:HB3	6	0.54	0.34	0.56
(1,1075)	1:12:A:GLN:H	1:118:A:LYS:HE3	6	0.5	0.52	0.34
(1,1032)	1:204:A:LYS:HA	1:207:A:ARG:HG2	6	0.48	0.26	0.48
(1,3632)	1:137:A:TYR:H	1:136:A:GLU:HG3	6	0.45	0.17	0.48
(1,3465)	1:71:A:ARG:HB2	1:65:A:LEU:HD11	6	0.39	0.24	0.3
(1,3465)	1:71:A:ARG:HB2	1:65:A:LEU:HD12	6	0.39	0.24	0.3
(1,3465)	1:71:A:ARG:HB2	1:65:A:LEU:HD13	6	0.39	0.24	0.3
(1,770)	1:53:A:ILE:HD11	1:32:A:LYS:HE2	6	0.32	0.24	0.24
(1,770)	1:53:A:ILE:HD12	1:32:A:LYS:HE2	6	0.32	0.24	0.24
(1,770)	1:53:A:ILE:HD13	1:32:A:LYS:HE2	6	0.32	0.24	0.24
(1,1353)	1:15:A:LEU:H	1:14:A:VAL:HG21	6	0.28	0.13	0.22
(1,1353)	1:15:A:LEU:H	1:14:A:VAL:HG22	6	0.28	0.13	0.22
(1,1353)	1:15:A:LEU:H	1:14:A:VAL:HG23	6	0.28	0.13	0.22
(1,4074)	1:186:A:LYS:H	1:185:A:GLU:HG3	6	0.26	0.08	0.28
(1,4362)	1:184:A:ILE:HG21	1:185:A:GLU:HG3	6	0.25	0.07	0.29
(1,4362)	1:184:A:ILE:HG22	1:185:A:GLU:HG3	6	0.25	0.07	0.29
(1,4362)	1:184:A:ILE:HG23	1:185:A:GLU:HG3	6	0.25	0.07	0.29
(1,2620)	1:188:A:MET:HB2	1:189:A:PRO:HD3	6	0.24	0.07	0.25
(1,848)	1:67:A:GLN:H	1:65:A:LEU:HD21	6	0.23	0.11	0.22
(1,848)	1:67:A:GLN:H	1:65:A:LEU:HD22	6	0.23	0.11	0.22
(1,848)	1:67:A:GLN:H	1:65:A:LEU:HD23	6	0.23	0.11	0.22
(1,71)	1:112:A:ILE:HD11	1:111:A:PHE:HB3	6	0.21	0.07	0.2
(1,71)	1:112:A:ILE:HD12	1:111:A:PHE:HB3	6	0.21	0.07	0.2
(1,71)	1:112:A:ILE:HD13	1:111:A:PHE:HB3	6	0.21	0.07	0.2
(1,3779)	1:114:A:LEU:H	1:130:A:LYS:HB3	6	0.19	0.06	0.18
(1,3082)	1:92:A:PHE:H	1:87:A:ILE:HG13	6	0.18	0.07	0.16
(1,2043)	1:65:A:LEU:HD11	1:67:A:GLN:H	6	0.17	0.05	0.16
(1,2043)	1:65:A:LEU:HD12	1:67:A:GLN:H	6	0.17	0.05	0.16
(1,2043)	1:65:A:LEU:HD13	1:67:A:GLN:H	6	0.17	0.05	0.16
(1,99)	1:7:A:ALA:HB1	1:6:A:ILE:HB	6	0.16	0.03	0.16
(1,99)	1:7:A:ALA:HB2	1:6:A:ILE:HB	6	0.16	0.03	0.16
(1,99)	1:7:A:ALA:HB3	1:6:A:ILE:HB	6	0.16	0.03	0.16
(1,1585)	1:184:A:ILE:HG21	1:188:A:MET:HE1	6	0.15	0.05	0.14
(1,1585)	1:184:A:ILE:HG21	1:188:A:MET:HE2	6	0.15	0.05	0.14
(1,1585)	1:184:A:ILE:HG21	1:188:A:MET:HE3	6	0.15	0.05	0.14
(1,1585)	1:184:A:ILE:HG22	1:188:A:MET:HE1	6	0.15	0.05	0.14
(1,1585)	1:184:A:ILE:HG22	1:188:A:MET:HE2	6	0.15	0.05	0.14
(1,1585)	1:184:A:ILE:HG22	1:188:A:MET:HE3	6	0.15	0.05	0.14
(1,1585)	1:184:A:ILE:HG23	1:188:A:MET:HE1	6	0.15	0.05	0.14

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1585)	1:184:A:ILE:HG23	1:188:A:MET:HE2	6	0.15	0.05	0.14
(1,1585)	1:184:A:ILE:HG23	1:188:A:MET:HE3	6	0.15	0.05	0.14
(1,3290)	1:77:A:SER:H	1:99:A:GLN:H	6	0.14	0.04	0.12
(1,812)	1:205:A:ALA:H	1:208:A:THR:H	6	0.14	0.03	0.12
(1,620)	1:101:A:PHE:H	1:98:A:THR:HG21	6	0.14	0.02	0.14
(1,620)	1:101:A:PHE:H	1:98:A:THR:HG22	6	0.14	0.02	0.14
(1,620)	1:101:A:PHE:H	1:98:A:THR:HG23	6	0.14	0.02	0.14
(1,2250)	1:102:A:ALA:HB1	1:183:A:ILE:HD11	6	0.13	0.03	0.12
(1,2250)	1:102:A:ALA:HB1	1:183:A:ILE:HD12	6	0.13	0.03	0.12
(1,2250)	1:102:A:ALA:HB1	1:183:A:ILE:HD13	6	0.13	0.03	0.12
(1,2250)	1:102:A:ALA:HB2	1:183:A:ILE:HD11	6	0.13	0.03	0.12
(1,2250)	1:102:A:ALA:HB2	1:183:A:ILE:HD12	6	0.13	0.03	0.12
(1,2250)	1:102:A:ALA:HB2	1:183:A:ILE:HD13	6	0.13	0.03	0.12
(1,2250)	1:102:A:ALA:HB3	1:183:A:ILE:HD11	6	0.13	0.03	0.12
(1,2250)	1:102:A:ALA:HB3	1:183:A:ILE:HD12	6	0.13	0.03	0.12
(1,2250)	1:102:A:ALA:HB3	1:183:A:ILE:HD13	6	0.13	0.03	0.12
(1,4005)	1:34:A:THR:H	1:196:A:ILE:HD11	6	0.13	0.02	0.12
(1,4005)	1:34:A:THR:H	1:196:A:ILE:HD12	6	0.13	0.02	0.12
(1,4005)	1:34:A:THR:H	1:196:A:ILE:HD13	6	0.13	0.02	0.12
(1,4245)	1:3:A:PHE:H	1:5:A:ALA:HB1	6	0.13	0.03	0.12
(1,4245)	1:3:A:PHE:H	1:5:A:ALA:HB2	6	0.13	0.03	0.12
(1,4245)	1:3:A:PHE:H	1:5:A:ALA:HB3	6	0.13	0.03	0.12
(1,4234)	1:91:A:THR:H	1:86:A:ARG:HA	6	0.13	0.02	0.13
(2,118)	1:152:A:GLY:N	1:170:A:PHE:O	6	0.13	0.01	0.13
(2,119)	1:170:A:PHE:O	1:152:A:GLY:N	6	0.13	0.01	0.13
(1,2333)	1:53:A:ILE:HG21	1:54:A:ILE:HB	6	0.13	0.02	0.12
(1,2333)	1:53:A:ILE:HG22	1:54:A:ILE:HB	6	0.13	0.02	0.12
(1,2333)	1:53:A:ILE:HG23	1:54:A:ILE:HB	6	0.13	0.02	0.12
(1,1933)	1:80:A:VAL:H	1:78:A:LEU:HD21	6	0.12	0.01	0.12
(1,1933)	1:80:A:VAL:H	1:78:A:LEU:HD22	6	0.12	0.01	0.12
(1,1933)	1:80:A:VAL:H	1:78:A:LEU:HD23	6	0.12	0.01	0.12
(1,3468)	1:26:A:VAL:HG11	1:34:A:THR:HG21	6	0.11	0.01	0.11
(1,3468)	1:26:A:VAL:HG11	1:34:A:THR:HG22	6	0.11	0.01	0.11
(1,3468)	1:26:A:VAL:HG11	1:34:A:THR:HG23	6	0.11	0.01	0.11
(1,3468)	1:26:A:VAL:HG12	1:34:A:THR:HG21	6	0.11	0.01	0.11
(1,3468)	1:26:A:VAL:HG12	1:34:A:THR:HG22	6	0.11	0.01	0.11
(1,3468)	1:26:A:VAL:HG12	1:34:A:THR:HG23	6	0.11	0.01	0.11
(1,3468)	1:26:A:VAL:HG13	1:34:A:THR:HG21	6	0.11	0.01	0.11
(1,3468)	1:26:A:VAL:HG13	1:34:A:THR:HG22	6	0.11	0.01	0.11
(1,3468)	1:26:A:VAL:HG13	1:34:A:THR:HG23	6	0.11	0.01	0.11
(1,908)	1:180:A:SER:HB2	1:183:A:ILE:HB	5	0.85	0.12	0.92
(1,4242)	1:130:A:LYS:HD2	1:10:A:THR:H	5	0.81	0.47	0.76

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,3429)	1:130:A:LYS:HE2	1:10:A:THR:HG21	5	0.78	0.48	0.73
(1,3429)	1:130:A:LYS:HE2	1:10:A:THR:HG22	5	0.78	0.48	0.73
(1,3429)	1:130:A:LYS:HE2	1:10:A:THR:HG23	5	0.78	0.48	0.73
(1,4018)	1:60:A:LYS:HB2	1:60:A:LYS:HE2	5	0.74	0.04	0.73
(1,2685)	1:177:A:GLY:H	1:176:A:ARG:HG3	5	0.67	0.38	0.83
(1,230)	1:68:A:THR:HA	1:67:A:GLN:HB3	5	0.64	0.45	0.42
(1,1166)	1:105:A:SER:HB2	1:180:A:SER:H	5	0.63	0.37	0.64
(1,527)	1:2:A:ASP:H	1:1:A:MET:HG3	5	0.63	0.41	0.51
(1,3118)	1:86:A:ARG:HA	1:83:A:MET:HG2	5	0.58	0.22	0.72
(1,10)	1:203:A:ILE:HA	1:204:A:LYS:HB2	5	0.56	0.03	0.57
(1,2009)	1:182:A:SER:HB2	1:183:A:ILE:HD11	5	0.55	0.12	0.52
(1,2009)	1:182:A:SER:HB2	1:183:A:ILE:HD12	5	0.55	0.12	0.52
(1,2009)	1:182:A:SER:HB2	1:183:A:ILE:HD13	5	0.55	0.12	0.52
(1,1747)	1:205:A:ALA:HA	1:204:A:LYS:HB3	5	0.52	0.04	0.5
(1,3011)	1:17:A:TYR:H	1:18:A:ASN:HB2	5	0.52	0.03	0.51
(1,4366)	1:83:A:MET:HG2	1:86:A:ARG:HG2	5	0.44	0.25	0.54
(1,26)	1:98:A:THR:HG21	1:99:A:GLN:HG3	5	0.42	0.29	0.31
(1,26)	1:98:A:THR:HG22	1:99:A:GLN:HG3	5	0.42	0.29	0.31
(1,26)	1:98:A:THR:HG23	1:99:A:GLN:HG3	5	0.42	0.29	0.31
(1,566)	1:36:A:SER:HB2	1:26:A:VAL:HG11	5	0.42	0.16	0.46
(1,566)	1:36:A:SER:HB2	1:26:A:VAL:HG12	5	0.42	0.16	0.46
(1,566)	1:36:A:SER:HB2	1:26:A:VAL:HG13	5	0.42	0.16	0.46
(1,3327)	1:137:A:TYR:H	1:136:A:GLU:HB3	5	0.39	0.1	0.47
(1,3258)	1:115:A:VAL:HG11	1:113:A:ASP:HB3	5	0.36	0.11	0.34
(1,3258)	1:115:A:VAL:HG12	1:113:A:ASP:HB3	5	0.36	0.11	0.34
(1,3258)	1:115:A:VAL:HG13	1:113:A:ASP:HB3	5	0.36	0.11	0.34
(1,2679)	1:67:A:GLN:H	1:68:A:THR:HA	5	0.34	0.13	0.3
(1,2909)	1:158:A:MET:HA	1:166:A:LYS:HB2	5	0.31	0.12	0.39
(1,534)	1:71:A:ARG:HD2	1:65:A:LEU:HA	5	0.29	0.22	0.2
(1,3047)	1:145:A:ARG:H	1:145:A:ARG:HD3	5	0.26	0.04	0.26
(1,1272)	1:48:A:TYR:H	1:171:A:VAL:HG21	5	0.23	0.06	0.23
(1,1272)	1:48:A:TYR:H	1:171:A:VAL:HG22	5	0.23	0.06	0.23
(1,1272)	1:48:A:TYR:H	1:171:A:VAL:HG23	5	0.23	0.06	0.23
(1,1030)	1:26:A:VAL:H	1:36:A:SER:HB2	5	0.22	0.12	0.17
(1,1130)	1:101:A:PHE:H	1:100:A:SER:HB3	5	0.21	0.07	0.16
(1,1830)	1:114:A:LEU:H	1:132:A:VAL:HA	5	0.21	0.08	0.24
(1,2770)	1:98:A:THR:H	1:109:A:ARG:HB2	5	0.2	0.13	0.13
(1,2896)	1:158:A:MET:H	1:158:A:MET:HG3	5	0.2	0.03	0.19
(1,3881)	1:123:A:ASN:HA	1:157:A:PRO:HG3	5	0.2	0.06	0.21
(1,4306)	1:102:A:ALA:HA	1:105:A:SER:H	5	0.19	0.06	0.17
(1,4340)	1:40:A:SER:H	1:43:A:PHE:H	5	0.19	0.11	0.14
(1,317)	1:160:A:GLU:H	1:160:A:GLU:HG3	5	0.18	0.07	0.15

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,3228)	1:187:A:THR:HG21	1:179:A:LEU:HD11	5	0.18	0.04	0.19
(1,3228)	1:187:A:THR:HG21	1:179:A:LEU:HD12	5	0.18	0.04	0.19
(1,3228)	1:187:A:THR:HG21	1:179:A:LEU:HD13	5	0.18	0.04	0.19
(1,3228)	1:187:A:THR:HG22	1:179:A:LEU:HD11	5	0.18	0.04	0.19
(1,3228)	1:187:A:THR:HG22	1:179:A:LEU:HD12	5	0.18	0.04	0.19
(1,3228)	1:187:A:THR:HG22	1:179:A:LEU:HD13	5	0.18	0.04	0.19
(1,3228)	1:187:A:THR:HG23	1:179:A:LEU:HD11	5	0.18	0.04	0.19
(1,3228)	1:187:A:THR:HG23	1:179:A:LEU:HD12	5	0.18	0.04	0.19
(1,3228)	1:187:A:THR:HG23	1:179:A:LEU:HD13	5	0.18	0.04	0.19
(1,1067)	1:70:A:ASP:HB3	1:73:A:THR:H	5	0.15	0.04	0.13
(1,3882)	1:112:A:ILE:HG21	1:132:A:VAL:HB	5	0.15	0.03	0.14
(1,3882)	1:112:A:ILE:HG22	1:132:A:VAL:HB	5	0.15	0.03	0.14
(1,3882)	1:112:A:ILE:HG23	1:132:A:VAL:HB	5	0.15	0.03	0.14
(1,1078)	1:199:A:ALA:HB1	1:203:A:ILE:HG21	5	0.14	0.01	0.14
(1,1078)	1:199:A:ALA:HB1	1:203:A:ILE:HG22	5	0.14	0.01	0.14
(1,1078)	1:199:A:ALA:HB1	1:203:A:ILE:HG23	5	0.14	0.01	0.14
(1,1078)	1:199:A:ALA:HB2	1:203:A:ILE:HG21	5	0.14	0.01	0.14
(1,1078)	1:199:A:ALA:HB2	1:203:A:ILE:HG22	5	0.14	0.01	0.14
(1,1078)	1:199:A:ALA:HB2	1:203:A:ILE:HG23	5	0.14	0.01	0.14
(1,1078)	1:199:A:ALA:HB3	1:203:A:ILE:HG21	5	0.14	0.01	0.14
(1,1078)	1:199:A:ALA:HB3	1:203:A:ILE:HG22	5	0.14	0.01	0.14
(1,1078)	1:199:A:ALA:HB3	1:203:A:ILE:HG23	5	0.14	0.01	0.14
(1,1471)	1:201:A:ASP:H	1:203:A:ILE:HB	5	0.14	0.01	0.14
(1,4387)	1:203:A:ILE:HD11	1:56:A:GLU:H	5	0.14	0.02	0.14
(1,4387)	1:203:A:ILE:HD12	1:56:A:GLU:H	5	0.14	0.02	0.14
(1,4387)	1:203:A:ILE:HD13	1:56:A:GLU:H	5	0.14	0.02	0.14
(1,3196)	1:36:A:SER:HA	1:24:A:TRP:HE1	5	0.13	0.03	0.13
(1,247)	1:52:A:GLY:H	1:168:A:VAL:HG21	5	0.13	0.03	0.11
(1,247)	1:52:A:GLY:H	1:168:A:VAL:HG22	5	0.13	0.03	0.11
(1,247)	1:52:A:GLY:H	1:168:A:VAL:HG23	5	0.13	0.03	0.11
(1,2658)	1:104:A:GLY:H	1:106:A:ILE:HD11	5	0.13	0.03	0.12
(1,2658)	1:104:A:GLY:H	1:106:A:ILE:HD12	5	0.13	0.03	0.12
(1,2658)	1:104:A:GLY:H	1:106:A:ILE:HD13	5	0.13	0.03	0.12
(1,142)	1:84:A:VAL:HG21	1:93:A:ILE:HG13	5	0.12	0.01	0.13
(1,142)	1:84:A:VAL:HG22	1:93:A:ILE:HG13	5	0.12	0.01	0.13
(1,142)	1:84:A:VAL:HG23	1:93:A:ILE:HG13	5	0.12	0.01	0.13
(1,685)	1:204:A:LYS:H	1:203:A:ILE:HG12	5	0.12	0.03	0.11
(1,1793)	1:184:A:ILE:HB	1:183:A:ILE:HB	5	0.12	0.02	0.12
(1,2577)	1:94:A:CYS:H	1:112:A:ILE:HD11	5	0.12	0.02	0.11
(1,2577)	1:94:A:CYS:H	1:112:A:ILE:HD12	5	0.12	0.02	0.11
(1,2577)	1:94:A:CYS:H	1:112:A:ILE:HD13	5	0.12	0.02	0.11
(1,2018)	1:48:A:TYR:H	1:49:A:ARG:HA	5	0.11	0.01	0.11

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,788)	1:208:A:THR:HG21	1:204:A:LYS:HB2	5	0.11	0.01	0.11
(1,788)	1:208:A:THR:HG22	1:204:A:LYS:HB2	5	0.11	0.01	0.11
(1,788)	1:208:A:THR:HG23	1:204:A:LYS:HB2	5	0.11	0.01	0.11
(1,3406)	1:168:A:VAL:HG11	1:166:A:LYS:HE3	5	0.11	0.0	0.11
(1,3406)	1:168:A:VAL:HG12	1:166:A:LYS:HE3	5	0.11	0.0	0.11
(1,3406)	1:168:A:VAL:HG13	1:166:A:LYS:HE3	5	0.11	0.0	0.11
(1,797)	1:192:A:LEU:H	1:194:A:ASN:HB2	4	1.34	0.71	1.68
(1,617)	1:169:A:MET:HA	1:50:A:VAL:HG11	4	1.27	0.13	1.27
(1,617)	1:169:A:MET:HA	1:50:A:VAL:HG12	4	1.27	0.13	1.27
(1,617)	1:169:A:MET:HA	1:50:A:VAL:HG13	4	1.27	0.13	1.27
(1,1932)	1:132:A:VAL:HG11	1:112:A:ILE:HG21	4	1.18	0.64	1.4
(1,1932)	1:132:A:VAL:HG11	1:112:A:ILE:HG22	4	1.18	0.64	1.4
(1,1932)	1:132:A:VAL:HG11	1:112:A:ILE:HG23	4	1.18	0.64	1.4
(1,1932)	1:132:A:VAL:HG12	1:112:A:ILE:HG21	4	1.18	0.64	1.4
(1,1932)	1:132:A:VAL:HG12	1:112:A:ILE:HG22	4	1.18	0.64	1.4
(1,1932)	1:132:A:VAL:HG12	1:112:A:ILE:HG23	4	1.18	0.64	1.4
(1,1932)	1:132:A:VAL:HG13	1:112:A:ILE:HG21	4	1.18	0.64	1.4
(1,1932)	1:132:A:VAL:HG13	1:112:A:ILE:HG22	4	1.18	0.64	1.4
(1,1932)	1:132:A:VAL:HG13	1:112:A:ILE:HG23	4	1.18	0.64	1.4
(1,92)	1:169:A:MET:HB2	1:50:A:VAL:HG11	4	1.07	0.21	1.1
(1,92)	1:169:A:MET:HB2	1:50:A:VAL:HG12	4	1.07	0.21	1.1
(1,92)	1:169:A:MET:HB2	1:50:A:VAL:HG13	4	1.07	0.21	1.1
(1,1069)	1:191:A:ASN:HA	1:192:A:LEU:HD21	4	0.83	0.16	0.9
(1,1069)	1:191:A:ASN:HA	1:192:A:LEU:HD22	4	0.83	0.16	0.9
(1,1069)	1:191:A:ASN:HA	1:192:A:LEU:HD23	4	0.83	0.16	0.9
(1,3624)	1:179:A:LEU:HA	1:106:A:ILE:HG12	4	0.82	0.55	0.84
(1,550)	1:13:A:GLU:H	1:12:A:GLN:HG2	4	0.71	0.03	0.7
(1,646)	1:42:A:LYS:H	1:172:A:GLN:HG2	4	0.68	0.15	0.69
(1,211)	1:42:A:LYS:HB2	1:40:A:SER:HB3	4	0.66	0.52	0.6
(1,3844)	1:110:A:ASP:H	1:109:A:ARG:HD3	4	0.65	0.31	0.7
(1,1845)	1:47:A:LEU:H	1:40:A:SER:HB2	4	0.64	0.3	0.52
(1,789)	1:176:A:ARG:HA	1:174:A:GLU:HG2	4	0.6	0.64	0.29
(1,4318)	1:119:A:ARG:H	1:119:A:ARG:HD2	4	0.52	0.34	0.52
(1,709)	1:167:A:LEU:HB3	1:166:A:LYS:HE2	4	0.48	0.61	0.14
(1,1898)	1:24:A:TRP:H	1:38:A:LYS:HB2	4	0.46	0.45	0.24
(1,3626)	1:77:A:SER:H	1:76:A:LYS:HD2	4	0.45	0.3	0.44
(1,851)	1:103:A:VAL:HG21	1:102:A:ALA:HB1	4	0.42	0.17	0.35
(1,851)	1:103:A:VAL:HG21	1:102:A:ALA:HB2	4	0.42	0.17	0.35
(1,851)	1:103:A:VAL:HG21	1:102:A:ALA:HB3	4	0.42	0.17	0.35
(1,851)	1:103:A:VAL:HG22	1:102:A:ALA:HB1	4	0.42	0.17	0.35
(1,851)	1:103:A:VAL:HG22	1:102:A:ALA:HB2	4	0.42	0.17	0.35
(1,851)	1:103:A:VAL:HG22	1:102:A:ALA:HB3	4	0.42	0.17	0.35

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,851)	1:103:A:VAL:HG23	1:102:A:ALA:HB1	4	0.42	0.17	0.35
(1,851)	1:103:A:VAL:HG23	1:102:A:ALA:HB2	4	0.42	0.17	0.35
(1,851)	1:103:A:VAL:HG23	1:102:A:ALA:HB3	4	0.42	0.17	0.35
(1,216)	1:76:A:LYS:H	1:76:A:LYS:HD2	4	0.39	0.22	0.34
(1,3988)	1:170:A:PHE:H	1:151:A:CYS:HB2	4	0.37	0.16	0.39
(1,365)	1:145:A:ARG:HG3	1:112:A:ILE:HG13	4	0.36	0.2	0.32
(1,3975)	1:208:A:THR:H	1:204:A:LYS:HB3	4	0.34	0.2	0.26
(1,1672)	1:79:A:GLN:HG2	1:99:A:GLN:HB2	4	0.33	0.26	0.22
(1,4002)	1:105:A:SER:HB3	1:183:A:ILE:HD11	4	0.28	0.17	0.22
(1,4002)	1:105:A:SER:HB3	1:183:A:ILE:HD12	4	0.28	0.17	0.22
(1,4002)	1:105:A:SER:HB3	1:183:A:ILE:HD13	4	0.28	0.17	0.22
(1,301)	1:6:A:ILE:HA	1:9:A:GLN:HB3	4	0.24	0.09	0.24
(1,2309)	1:129:A:SER:HB3	1:113:A:ASP:HB3	4	0.24	0.07	0.26
(1,2128)	1:66:A:TYR:H	1:71:A:ARG:H	4	0.19	0.07	0.16
(1,895)	1:71:A:ARG:H	1:69:A:GLY:HA3	4	0.18	0.04	0.18
(1,3965)	1:168:A:VAL:HG11	1:166:A:LYS:HG3	4	0.17	0.06	0.14
(1,3965)	1:168:A:VAL:HG12	1:166:A:LYS:HG3	4	0.17	0.06	0.14
(1,3965)	1:168:A:VAL:HG13	1:166:A:LYS:HG3	4	0.17	0.06	0.14
(1,327)	1:171:A:VAL:H	1:49:A:ARG:H	4	0.16	0.06	0.15
(1,4195)	1:151:A:CYS:H	1:149:A:HIS:HA	4	0.16	0.07	0.13
(1,3419)	1:203:A:ILE:HG21	1:207:A:ARG:H	4	0.15	0.04	0.16
(1,3419)	1:203:A:ILE:HG22	1:207:A:ARG:H	4	0.15	0.04	0.16
(1,3419)	1:203:A:ILE:HG23	1:207:A:ARG:H	4	0.15	0.04	0.16
(1,4171)	1:116:A:TYR:H	1:11:A:ALA:HB1	4	0.15	0.05	0.14
(1,4171)	1:116:A:TYR:H	1:11:A:ALA:HB2	4	0.15	0.05	0.14
(1,4171)	1:116:A:TYR:H	1:11:A:ALA:HB3	4	0.15	0.05	0.14
(1,3410)	1:167:A:LEU:H	1:52:A:GLY:HA2	4	0.15	0.03	0.14
(1,4256)	1:164:A:TYR:H	1:160:A:GLU:HA	4	0.14	0.02	0.14
(1,3408)	1:120:A:TYR:H	1:118:A:LYS:HA	4	0.14	0.01	0.14
(1,2107)	1:134:A:PHE:H	1:134:A:PHE:HZ	4	0.14	0.01	0.14
(1,3635)	1:196:A:ILE:HD11	1:192:A:LEU:HB3	4	0.13	0.01	0.13
(1,3635)	1:196:A:ILE:HD12	1:192:A:LEU:HB3	4	0.13	0.01	0.13
(1,3635)	1:196:A:ILE:HD13	1:192:A:LEU:HB3	4	0.13	0.01	0.13
(1,639)	1:193:A:VAL:H	1:192:A:LEU:HG	4	0.13	0.03	0.13
(1,1891)	1:66:A:TYR:H	1:62:A:SER:HA	4	0.13	0.02	0.12
(1,1123)	1:193:A:VAL:H	1:191:A:ASN:HA	4	0.13	0.02	0.12
(1,352)	1:3:A:PHE:HZ	1:3:A:PHE:H	4	0.12	0.01	0.12
(1,383)	1:173:A:THR:H	1:47:A:LEU:HG	4	0.12	0.01	0.12
(1,3828)	1:164:A:TYR:H	1:161:A:ASN:HA	4	0.12	0.01	0.12
(1,2840)	1:165:A:SER:H	1:166:A:LYS:HA	4	0.12	0.02	0.11
(1,2170)	1:130:A:LYS:H	1:115:A:VAL:HG21	4	0.12	0.0	0.12
(1,2170)	1:130:A:LYS:H	1:115:A:VAL:HG22	4	0.12	0.0	0.12

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,2170)	1:130:A:LYS:H	1:115:A:VAL:HG23	4	0.12	0.0	0.12
(1,147)	1:6:A:ILE:HD11	1:9:A:GLN:H	4	0.11	0.01	0.11
(1,147)	1:6:A:ILE:HD12	1:9:A:GLN:H	4	0.11	0.01	0.11
(1,147)	1:6:A:ILE:HD13	1:9:A:GLN:H	4	0.11	0.01	0.11
(1,798)	1:199:A:ALA:HB1	1:198:A:ASN:H	4	0.11	0.01	0.12
(1,798)	1:199:A:ALA:HB2	1:198:A:ASN:H	4	0.11	0.01	0.12
(1,798)	1:199:A:ALA:HB3	1:198:A:ASN:H	4	0.11	0.01	0.12
(1,1104)	1:115:A:VAL:HG11	1:130:A:LYS:H	4	0.11	0.0	0.11
(1,1104)	1:115:A:VAL:HG12	1:130:A:LYS:H	4	0.11	0.0	0.11
(1,1104)	1:115:A:VAL:HG13	1:130:A:LYS:H	4	0.11	0.0	0.11
(1,2461)	1:160:A:GLU:H	1:161:A:ASN:HA	4	0.11	0.01	0.11
(1,1434)	1:35:A:VAL:H	1:27:A:VAL:HG11	3	2.16	0.14	2.21
(1,1434)	1:35:A:VAL:H	1:27:A:VAL:HG12	3	2.16	0.14	2.21
(1,1434)	1:35:A:VAL:H	1:27:A:VAL:HG13	3	2.16	0.14	2.21
(1,927)	1:35:A:VAL:HB	1:27:A:VAL:HG11	3	1.44	0.23	1.59
(1,927)	1:35:A:VAL:HB	1:27:A:VAL:HG12	3	1.44	0.23	1.59
(1,927)	1:35:A:VAL:HB	1:27:A:VAL:HG13	3	1.44	0.23	1.59
(1,1980)	1:186:A:LYS:HG3	1:185:A:GLU:H	3	1.44	0.08	1.39
(1,3718)	1:132:A:VAL:HG11	1:84:A:VAL:HG21	3	1.27	0.29	1.08
(1,3718)	1:132:A:VAL:HG11	1:84:A:VAL:HG22	3	1.27	0.29	1.08
(1,3718)	1:132:A:VAL:HG11	1:84:A:VAL:HG23	3	1.27	0.29	1.08
(1,3718)	1:132:A:VAL:HG12	1:84:A:VAL:HG21	3	1.27	0.29	1.08
(1,3718)	1:132:A:VAL:HG12	1:84:A:VAL:HG22	3	1.27	0.29	1.08
(1,3718)	1:132:A:VAL:HG12	1:84:A:VAL:HG23	3	1.27	0.29	1.08
(1,3718)	1:132:A:VAL:HG13	1:84:A:VAL:HG21	3	1.27	0.29	1.08
(1,3718)	1:132:A:VAL:HG13	1:84:A:VAL:HG22	3	1.27	0.29	1.08
(1,3718)	1:132:A:VAL:HG13	1:84:A:VAL:HG23	3	1.27	0.29	1.08
(1,1865)	1:132:A:VAL:HG11	1:112:A:ILE:HG21	3	1.03	0.23	1.07
(1,1865)	1:132:A:VAL:HG11	1:112:A:ILE:HG22	3	1.03	0.23	1.07
(1,1865)	1:132:A:VAL:HG11	1:112:A:ILE:HG23	3	1.03	0.23	1.07
(1,1865)	1:132:A:VAL:HG12	1:112:A:ILE:HG21	3	1.03	0.23	1.07
(1,1865)	1:132:A:VAL:HG12	1:112:A:ILE:HG22	3	1.03	0.23	1.07
(1,1865)	1:132:A:VAL:HG12	1:112:A:ILE:HG23	3	1.03	0.23	1.07
(1,1865)	1:132:A:VAL:HG13	1:112:A:ILE:HG21	3	1.03	0.23	1.07
(1,1865)	1:132:A:VAL:HG13	1:112:A:ILE:HG22	3	1.03	0.23	1.07
(1,1865)	1:132:A:VAL:HG13	1:112:A:ILE:HG23	3	1.03	0.23	1.07
(1,4376)	1:200:A:LYS:HD3	1:54:A:ILE:H	3	1.03	0.53	1.18
(1,2145)	1:173:A:THR:HA	1:174:A:GLU:HB2	3	0.88	0.03	0.9
(1,3560)	1:198:A:ASN:H	1:194:A:ASN:HB3	3	0.87	0.08	0.92
(1,1726)	1:186:A:LYS:HB2	1:184:A:ILE:HA	3	0.85	0.05	0.83
(1,2368)	1:137:A:TYR:HB2	1:136:A:GLU:HG3	3	0.82	0.14	0.91
(1,1847)	1:186:A:LYS:HG3	1:183:A:ILE:HD11	3	0.77	0.19	0.87

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1847)	1:186:A:LYS:HG3	1:183:A:ILE:HD12	3	0.77	0.19	0.87
(1,1847)	1:186:A:LYS:HG3	1:183:A:ILE:HD13	3	0.77	0.19	0.87
(1,3735)	1:193:A:VAL:H	1:194:A:ASN:HB2	3	0.77	0.16	0.81
(1,2530)	1:28:A:LYS:H	1:27:A:VAL:HG11	3	0.75	0.07	0.79
(1,2530)	1:28:A:LYS:H	1:27:A:VAL:HG12	3	0.75	0.07	0.79
(1,2530)	1:28:A:LYS:H	1:27:A:VAL:HG13	3	0.75	0.07	0.79
(1,3655)	1:69:A:GLY:H	1:67:A:GLN:HB3	3	0.7	0.27	0.59
(1,3676)	1:197:A:LEU:HD11	1:193:A:VAL:HA	3	0.65	0.11	0.64
(1,3676)	1:197:A:LEU:HD12	1:193:A:VAL:HA	3	0.65	0.11	0.64
(1,3676)	1:197:A:LEU:HD13	1:193:A:VAL:HA	3	0.65	0.11	0.64
(1,969)	1:100:A:SER:HB3	1:101:A:PHE:HA	3	0.6	0.1	0.66
(1,1756)	1:194:A:ASN:H	1:193:A:VAL:HG11	3	0.6	0.05	0.59
(1,1756)	1:194:A:ASN:H	1:193:A:VAL:HG12	3	0.6	0.05	0.59
(1,1756)	1:194:A:ASN:H	1:193:A:VAL:HG13	3	0.6	0.05	0.59
(1,475)	1:201:A:ASP:HA	1:204:A:LYS:HD2	3	0.59	0.29	0.73
(1,1849)	1:186:A:LYS:HB2	1:106:A:ILE:HD11	3	0.59	0.32	0.52
(1,1849)	1:186:A:LYS:HB2	1:106:A:ILE:HD12	3	0.59	0.32	0.52
(1,1849)	1:186:A:LYS:HB2	1:106:A:ILE:HD13	3	0.59	0.32	0.52
(1,676)	1:130:A:LYS:HD2	1:10:A:THR:HG21	3	0.58	0.45	0.39
(1,676)	1:130:A:LYS:HD2	1:10:A:THR:HG22	3	0.58	0.45	0.39
(1,676)	1:130:A:LYS:HD2	1:10:A:THR:HG23	3	0.58	0.45	0.39
(1,2353)	1:132:A:VAL:HG21	1:130:A:LYS:HB3	3	0.56	0.25	0.42
(1,2353)	1:132:A:VAL:HG22	1:130:A:LYS:HB3	3	0.56	0.25	0.42
(1,2353)	1:132:A:VAL:HG23	1:130:A:LYS:HB3	3	0.56	0.25	0.42
(1,2895)	1:29:A:THR:H	1:28:A:LYS:HG3	3	0.52	0.21	0.53
(1,1700)	1:130:A:LYS:HB3	1:130:A:LYS:HE2	3	0.51	0.1	0.55
(1,2038)	1:186:A:LYS:HD2	1:186:A:LYS:HA	3	0.5	0.09	0.48
(1,446)	1:204:A:LYS:HB2	1:204:A:LYS:HD2	3	0.49	0.15	0.51
(1,787)	1:158:A:MET:H	1:165:A:SER:HB2	3	0.46	0.13	0.55
(1,4288)	1:186:A:LYS:HE2	1:186:A:LYS:HG3	3	0.45	0.09	0.46
(1,4224)	1:40:A:SER:HA	1:172:A:GLN:HG3	3	0.44	0.33	0.35
(1,3861)	1:54:A:ILE:HB	1:55:A:PRO:HD3	3	0.44	0.25	0.48
(1,3777)	1:60:A:LYS:HD3	1:60:A:LYS:HA	3	0.38	0.02	0.39
(1,3075)	1:192:A:LEU:H	1:193:A:VAL:HG11	3	0.35	0.14	0.31
(1,3075)	1:192:A:LEU:H	1:193:A:VAL:HG12	3	0.35	0.14	0.31
(1,3075)	1:192:A:LEU:H	1:193:A:VAL:HG13	3	0.35	0.14	0.31
(1,1790)	1:144:A:ILE:HG21	1:177:A:GLY:HA2	3	0.35	0.15	0.27
(1,1790)	1:144:A:ILE:HG22	1:177:A:GLY:HA2	3	0.35	0.15	0.27
(1,1790)	1:144:A:ILE:HG23	1:177:A:GLY:HA2	3	0.35	0.15	0.27
(1,2295)	1:186:A:LYS:H	1:186:A:LYS:HB2	3	0.32	0.1	0.34
(1,774)	1:196:A:ILE:HG21	1:197:A:LEU:HG	3	0.32	0.07	0.28
(1,774)	1:196:A:ILE:HG22	1:197:A:LEU:HG	3	0.32	0.07	0.28

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,774)	1:196:A:ILE:HG23	1:197:A:LEU:HG	3	0.32	0.07	0.28
(1,2089)	1:42:A:LYS:H	1:42:A:LYS:HG3	3	0.32	0.14	0.3
(1,4335)	1:186:A:LYS:H	1:186:A:LYS:HG3	3	0.32	0.07	0.27
(1,1211)	1:179:A:LEU:HD11	1:183:A:ILE:HG21	3	0.31	0.13	0.26
(1,1211)	1:179:A:LEU:HD11	1:183:A:ILE:HG22	3	0.31	0.13	0.26
(1,1211)	1:179:A:LEU:HD11	1:183:A:ILE:HG23	3	0.31	0.13	0.26
(1,1211)	1:179:A:LEU:HD12	1:183:A:ILE:HG21	3	0.31	0.13	0.26
(1,1211)	1:179:A:LEU:HD12	1:183:A:ILE:HG22	3	0.31	0.13	0.26
(1,1211)	1:179:A:LEU:HD12	1:183:A:ILE:HG23	3	0.31	0.13	0.26
(1,1211)	1:179:A:LEU:HD13	1:183:A:ILE:HG21	3	0.31	0.13	0.26
(1,1211)	1:179:A:LEU:HD13	1:183:A:ILE:HG22	3	0.31	0.13	0.26
(1,1211)	1:179:A:LEU:HD13	1:183:A:ILE:HG23	3	0.31	0.13	0.26
(1,3303)	1:101:A:PHE:HB3	1:106:A:ILE:HD11	3	0.29	0.14	0.34
(1,3303)	1:101:A:PHE:HB3	1:106:A:ILE:HD12	3	0.29	0.14	0.34
(1,3303)	1:101:A:PHE:HB3	1:106:A:ILE:HD13	3	0.29	0.14	0.34
(1,303)	1:170:A:PHE:HA	1:50:A:VAL:HG11	3	0.26	0.13	0.19
(1,303)	1:170:A:PHE:HA	1:50:A:VAL:HG12	3	0.26	0.13	0.19
(1,303)	1:170:A:PHE:HA	1:50:A:VAL:HG13	3	0.26	0.13	0.19
(1,3883)	1:166:A:LYS:HB3	1:51:A:GLU:HG3	3	0.25	0.19	0.14
(1,2173)	1:145:A:ARG:HG2	1:133:A:ASP:HA	3	0.21	0.05	0.18
(1,1751)	1:99:A:GLN:H	1:77:A:SER:HB2	3	0.2	0.07	0.19
(1,1239)	1:109:A:ARG:H	1:144:A:ILE:H	3	0.19	0.0	0.19
(1,3838)	1:176:A:ARG:HA	1:175:A:MET:HB2	3	0.19	0.06	0.16
(1,529)	1:28:A:LYS:H	1:35:A:VAL:HB	3	0.17	0.02	0.17
(1,4208)	1:176:A:ARG:H	1:144:A:ILE:HG21	3	0.17	0.05	0.17
(1,4208)	1:176:A:ARG:H	1:144:A:ILE:HG22	3	0.17	0.05	0.17
(1,4208)	1:176:A:ARG:H	1:144:A:ILE:HG23	3	0.17	0.05	0.17
(1,1856)	1:129:A:SER:HB3	1:114:A:LEU:H	3	0.17	0.02	0.17
(1,2688)	1:79:A:GLN:HB2	1:99:A:GLN:HA	3	0.17	0.04	0.15
(1,643)	1:81:A:TYR:H	1:72:A:ILE:HD11	3	0.16	0.07	0.12
(1,643)	1:81:A:TYR:H	1:72:A:ILE:HD12	3	0.16	0.07	0.12
(1,643)	1:81:A:TYR:H	1:72:A:ILE:HD13	3	0.16	0.07	0.12
(1,2516)	1:137:A:TYR:H	1:112:A:ILE:HD11	3	0.15	0.03	0.16
(1,2516)	1:137:A:TYR:H	1:112:A:ILE:HD12	3	0.15	0.03	0.16
(1,2516)	1:137:A:TYR:H	1:112:A:ILE:HD13	3	0.15	0.03	0.16
(1,4064)	1:77:A:SER:H	1:76:A:LYS:HG3	3	0.15	0.05	0.13
(1,2289)	1:45:A:GLY:H	1:43:A:PHE:H	3	0.15	0.02	0.14
(1,3619)	1:151:A:CYS:H	1:128:A:SER:HA	3	0.15	0.04	0.12
(1,956)	1:15:A:LEU:H	1:154:A:VAL:HG11	3	0.14	0.02	0.15
(1,956)	1:15:A:LEU:H	1:154:A:VAL:HG12	3	0.14	0.02	0.15
(1,956)	1:15:A:LEU:H	1:154:A:VAL:HG13	3	0.14	0.02	0.15
(1,1620)	1:22:A:SER:H	1:24:A:TRP:HE1	3	0.14	0.04	0.12

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,3467)	1:99:A:GLN:HA	1:79:A:GLN:HG3	3	0.14	0.01	0.15
(1,3549)	1:76:A:LYS:H	1:198:A:ASN:H	3	0.14	0.04	0.13
(1,2678)	1:205:A:ALA:HB1	1:203:A:ILE:HA	3	0.14	0.02	0.14
(1,2678)	1:205:A:ALA:HB2	1:203:A:ILE:HA	3	0.14	0.02	0.14
(1,2678)	1:205:A:ALA:HB3	1:203:A:ILE:HA	3	0.14	0.02	0.14
(1,4112)	1:40:A:SER:H	1:47:A:LEU:HA	3	0.14	0.01	0.14
(1,131)	1:84:A:VAL:HG11	1:82:A:ASN:HB2	3	0.14	0.03	0.13
(1,131)	1:84:A:VAL:HG12	1:82:A:ASN:HB2	3	0.14	0.03	0.13
(1,131)	1:84:A:VAL:HG13	1:82:A:ASN:HB2	3	0.14	0.03	0.13
(1,1139)	1:103:A:VAL:H	1:101:A:PHE:HA	3	0.14	0.01	0.13
(1,1329)	1:165:A:SER:H	1:57:A:SER:HA	3	0.13	0.01	0.13
(1,1871)	1:195:A:PHE:H	1:192:A:LEU:H	3	0.13	0.03	0.12
(1,3470)	1:132:A:VAL:HG21	1:130:A:LYS:H	3	0.13	0.02	0.12
(1,3470)	1:132:A:VAL:HG22	1:130:A:LYS:H	3	0.13	0.02	0.12
(1,3470)	1:132:A:VAL:HG23	1:130:A:LYS:H	3	0.13	0.02	0.12
(1,892)	1:26:A:VAL:HA	1:36:A:SER:HA	3	0.13	0.01	0.13
(1,1023)	1:111:A:PHE:H	1:97:A:ILE:HG21	3	0.13	0.01	0.12
(1,1023)	1:111:A:PHE:H	1:97:A:ILE:HG22	3	0.13	0.01	0.12
(1,1023)	1:111:A:PHE:H	1:97:A:ILE:HG23	3	0.13	0.01	0.12
(1,4089)	1:127:A:ILE:HD11	1:65:A:LEU:HD11	3	0.13	0.03	0.12
(1,4089)	1:127:A:ILE:HD11	1:65:A:LEU:HD12	3	0.13	0.03	0.12
(1,4089)	1:127:A:ILE:HD11	1:65:A:LEU:HD13	3	0.13	0.03	0.12
(1,4089)	1:127:A:ILE:HD12	1:65:A:LEU:HD11	3	0.13	0.03	0.12
(1,4089)	1:127:A:ILE:HD12	1:65:A:LEU:HD12	3	0.13	0.03	0.12
(1,4089)	1:127:A:ILE:HD12	1:65:A:LEU:HD13	3	0.13	0.03	0.12
(1,4089)	1:127:A:ILE:HD13	1:65:A:LEU:HD11	3	0.13	0.03	0.12
(1,4089)	1:127:A:ILE:HD13	1:65:A:LEU:HD12	3	0.13	0.03	0.12
(1,4089)	1:127:A:ILE:HD13	1:65:A:LEU:HD13	3	0.13	0.03	0.12
(1,4175)	1:91:A:THR:H	1:87:A:ILE:HB	3	0.13	0.01	0.13
(1,1293)	1:11:A:ALA:HA	1:14:A:VAL:HB	3	0.13	0.03	0.11
(1,4026)	1:86:A:ARG:HA	1:87:A:ILE:HG21	3	0.13	0.02	0.12
(1,4026)	1:86:A:ARG:HA	1:87:A:ILE:HG22	3	0.13	0.02	0.12
(1,4026)	1:86:A:ARG:HA	1:87:A:ILE:HG23	3	0.13	0.02	0.12
(1,791)	1:94:A:CYS:H	1:115:A:VAL:HG21	3	0.12	0.02	0.13
(1,791)	1:94:A:CYS:H	1:115:A:VAL:HG22	3	0.12	0.02	0.13
(1,791)	1:94:A:CYS:H	1:115:A:VAL:HG23	3	0.12	0.02	0.13
(1,1260)	1:167:A:LEU:HA	1:196:A:ILE:HD11	3	0.12	0.01	0.12
(1,1260)	1:167:A:LEU:HA	1:196:A:ILE:HD12	3	0.12	0.01	0.12
(1,1260)	1:167:A:LEU:HA	1:196:A:ILE:HD13	3	0.12	0.01	0.12
(1,1762)	1:96:A:THR:HG21	1:95:A:HIS:H	3	0.12	0.01	0.13
(1,1762)	1:96:A:THR:HG22	1:95:A:HIS:H	3	0.12	0.01	0.13
(1,1762)	1:96:A:THR:HG23	1:95:A:HIS:H	3	0.12	0.01	0.13

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,2565)	1:190:A:SER:H	1:188:A:MET:HE1	3	0.12	0.01	0.12
(1,2565)	1:190:A:SER:H	1:188:A:MET:HE2	3	0.12	0.01	0.12
(1,2565)	1:190:A:SER:H	1:188:A:MET:HE3	3	0.12	0.01	0.12
(1,2973)	1:57:A:SER:H	1:203:A:ILE:HG21	3	0.12	0.01	0.12
(1,2973)	1:57:A:SER:H	1:203:A:ILE:HG22	3	0.12	0.01	0.12
(1,2973)	1:57:A:SER:H	1:203:A:ILE:HG23	3	0.12	0.01	0.12
(1,1269)	1:14:A:VAL:H	1:15:A:LEU:HB2	3	0.12	0.0	0.12
(1,12)	1:200:A:LYS:HG2	1:200:A:LYS:HE3	3	0.12	0.0	0.12
(1,161)	1:200:A:LYS:HE3	1:200:A:LYS:HG2	3	0.12	0.0	0.12
(1,1777)	1:130:A:LYS:H	1:131:A:SER:HA	3	0.11	0.01	0.11
(1,3865)	1:133:A:ASP:H	1:132:A:VAL:HB	3	0.11	0.01	0.11
(1,2172)	1:174:A:GLU:H	1:174:A:GLU:HG2	3	0.11	0.01	0.1
(1,2642)	1:114:A:LEU:HD11	1:92:A:PHE:HB3	3	0.11	0.0	0.11
(1,2642)	1:114:A:LEU:HD12	1:92:A:PHE:HB3	3	0.11	0.0	0.11
(1,2642)	1:114:A:LEU:HD13	1:92:A:PHE:HB3	3	0.11	0.0	0.11
(1,3864)	1:6:A:ILE:H	1:8:A:GLN:HB2	2	1.77	0.01	1.77
(1,1072)	1:5:A:ALA:H	1:8:A:GLN:HG3	2	1.42	0.17	1.42
(1,4003)	1:24:A:TRP:HH2	1:49:A:ARG:HG2	2	1.09	0.9	1.09
(1,419)	1:79:A:GLN:HG3	1:80:A:VAL:HG21	2	1.08	0.96	1.08
(1,419)	1:79:A:GLN:HG3	1:80:A:VAL:HG22	2	1.08	0.96	1.08
(1,419)	1:79:A:GLN:HG3	1:80:A:VAL:HG23	2	1.08	0.96	1.08
(1,2335)	1:7:A:ALA:H	1:8:A:GLN:HG3	2	1.0	0.31	1.0
(1,1658)	1:130:A:LYS:HE3	1:6:A:ILE:HG21	2	1.0	0.1	1.0
(1,1658)	1:130:A:LYS:HE3	1:6:A:ILE:HG22	2	1.0	0.1	1.0
(1,1658)	1:130:A:LYS:HE3	1:6:A:ILE:HG23	2	1.0	0.1	1.0
(1,4086)	1:54:A:ILE:H	1:200:A:LYS:HE3	2	0.92	0.26	0.92
(1,2638)	1:176:A:ARG:H	1:174:A:GLU:HB3	2	0.84	0.11	0.84
(1,1165)	1:169:A:MET:HA	1:49:A:ARG:HG3	2	0.75	0.4	0.75
(1,1199)	1:192:A:LEU:HD11	1:50:A:VAL:HB	2	0.73	0.01	0.73
(1,1199)	1:192:A:LEU:HD12	1:50:A:VAL:HB	2	0.73	0.01	0.73
(1,1199)	1:192:A:LEU:HD13	1:50:A:VAL:HB	2	0.73	0.01	0.73
(1,3379)	1:170:A:PHE:H	1:49:A:ARG:HG3	2	0.67	0.51	0.67
(1,573)	1:24:A:TRP:HZ3	1:24:A:TRP:HB3	2	0.66	0.06	0.66
(1,1665)	1:74:A:TRP:HZ2	1:202:A:GLY:HA2	2	0.65	0.33	0.65
(1,1789)	1:7:A:ALA:HB1	1:8:A:GLN:HG3	2	0.64	0.17	0.64
(1,1789)	1:7:A:ALA:HB2	1:8:A:GLN:HG3	2	0.64	0.17	0.64
(1,1789)	1:7:A:ALA:HB3	1:8:A:GLN:HG3	2	0.64	0.17	0.64
(1,3471)	1:76:A:LYS:HD2	1:77:A:SER:H	2	0.54	0.1	0.54
(1,907)	1:200:A:LYS:HB2	1:197:A:LEU:HD21	2	0.52	0.1	0.52
(1,907)	1:200:A:LYS:HB2	1:197:A:LEU:HD22	2	0.52	0.1	0.52
(1,907)	1:200:A:LYS:HB2	1:197:A:LEU:HD23	2	0.52	0.1	0.52
(1,2469)	1:201:A:ASP:HA	1:204:A:LYS:HE2	2	0.48	0.02	0.48

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,2613)	1:198:A:ASN:HB2	1:197:A:LEU:HB2	2	0.48	0.21	0.48
(1,2847)	1:71:A:ARG:HD2	1:71:A:ARG:HB2	2	0.46	0.14	0.46
(1,80)	1:106:A:ILE:HG12	1:179:A:LEU:HG	2	0.46	0.34	0.46
(1,3561)	1:53:A:ILE:HG21	1:32:A:LYS:HE3	2	0.43	0.11	0.43
(1,3561)	1:53:A:ILE:HG22	1:32:A:LYS:HE3	2	0.43	0.11	0.43
(1,3561)	1:53:A:ILE:HG23	1:32:A:LYS:HE3	2	0.43	0.11	0.43
(1,4379)	1:130:A:LYS:HB3	1:10:A:THR:HG21	2	0.43	0.1	0.43
(1,4379)	1:130:A:LYS:HB3	1:10:A:THR:HG22	2	0.43	0.1	0.43
(1,4379)	1:130:A:LYS:HB3	1:10:A:THR:HG23	2	0.43	0.1	0.43
(1,3962)	1:56:A:GLU:H	1:56:A:GLU:HG3	2	0.41	0.09	0.41
(1,3608)	1:56:A:GLU:H	1:165:A:SER:HB3	2	0.4	0.15	0.4
(1,3692)	1:119:A:ARG:H	1:118:A:LYS:HG2	2	0.4	0.06	0.4
(1,1886)	1:76:A:LYS:HE2	1:76:A:LYS:HB2	2	0.39	0.01	0.39
(1,1412)	1:130:A:LYS:HE2	1:130:A:LYS:HG3	2	0.38	0.04	0.38
(1,3268)	1:194:A:ASN:HB2	1:193:A:VAL:H	2	0.38	0.06	0.38
(1,1361)	1:200:A:LYS:HB3	1:200:A:LYS:HD2	2	0.35	0.17	0.35
(1,281)	1:80:A:VAL:HA	1:72:A:ILE:HG12	2	0.33	0.16	0.33
(1,1278)	1:208:A:THR:H	1:207:A:ARG:HD3	2	0.33	0.07	0.33
(1,1520)	1:107:A:SER:HB2	1:144:A:ILE:HG21	2	0.33	0.08	0.33
(1,1520)	1:107:A:SER:HB2	1:144:A:ILE:HG22	2	0.33	0.08	0.33
(1,1520)	1:107:A:SER:HB2	1:144:A:ILE:HG23	2	0.33	0.08	0.33
(1,1864)	1:24:A:TRP:H	1:24:A:TRP:HE1	2	0.3	0.12	0.3
(1,334)	1:71:A:ARG:HG2	1:69:A:GLY:H	2	0.3	0.1	0.3
(1,3476)	1:200:A:LYS:HB3	1:200:A:LYS:HE3	2	0.29	0.02	0.29
(1,4346)	1:197:A:LEU:H	1:194:A:ASN:HB3	2	0.28	0.07	0.28
(1,299)	1:191:A:ASN:HB3	1:171:A:VAL:HG11	2	0.27	0.08	0.27
(1,299)	1:191:A:ASN:HB3	1:171:A:VAL:HG12	2	0.27	0.08	0.27
(1,299)	1:191:A:ASN:HB3	1:171:A:VAL:HG13	2	0.27	0.08	0.27
(1,3223)	1:175:A:MET:H	1:174:A:GLU:HB3	2	0.26	0.14	0.26
(1,517)	1:68:A:THR:H	1:67:A:GLN:HG2	2	0.24	0.04	0.24
(1,255)	1:130:A:LYS:HB3	1:114:A:LEU:HD21	2	0.24	0.01	0.24
(1,255)	1:130:A:LYS:HB3	1:114:A:LEU:HD22	2	0.24	0.01	0.24
(1,255)	1:130:A:LYS:HB3	1:114:A:LEU:HD23	2	0.24	0.01	0.24
(1,4300)	1:76:A:LYS:H	1:76:A:LYS:HE2	2	0.24	0.11	0.24
(1,2119)	1:46:A:ASN:H	1:184:A:ILE:HG21	2	0.24	0.04	0.24
(1,2119)	1:46:A:ASN:H	1:184:A:ILE:HG22	2	0.24	0.04	0.24
(1,2119)	1:46:A:ASN:H	1:184:A:ILE:HG23	2	0.24	0.04	0.24
(1,3138)	1:76:A:LYS:HE3	1:76:A:LYS:HB2	2	0.24	0.11	0.24
(1,34)	1:12:A:GLN:H	1:12:A:GLN:HG3	2	0.24	0.0	0.24
(1,104)	1:19:A:ARG:H	1:20:A:ASP:HB3	2	0.22	0.06	0.22
(1,420)	1:199:A:ALA:H	1:197:A:LEU:HB2	2	0.22	0.01	0.22
(1,1816)	1:204:A:LYS:H	1:204:A:LYS:HG3	2	0.21	0.05	0.21

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1877)	1:102:A:ALA:HB1	1:179:A:LEU:HB3	2	0.21	0.05	0.21
(1,1877)	1:102:A:ALA:HB2	1:179:A:LEU:HB3	2	0.21	0.05	0.21
(1,1877)	1:102:A:ALA:HB3	1:179:A:LEU:HB3	2	0.21	0.05	0.21
(1,133)	1:88:A:ASP:H	1:89:A:SER:HA	2	0.2	0.04	0.2
(1,637)	1:25:A:LYS:H	1:36:A:SER:HB2	2	0.2	0.09	0.2
(1,2126)	1:194:A:ASN:H	1:197:A:LEU:HG	2	0.19	0.09	0.19
(1,2904)	1:35:A:VAL:H	1:29:A:THR:HG21	2	0.18	0.03	0.18
(1,2904)	1:35:A:VAL:H	1:29:A:THR:HG22	2	0.18	0.03	0.18
(1,2904)	1:35:A:VAL:H	1:29:A:THR:HG23	2	0.18	0.03	0.18
(1,2614)	1:19:A:ARG:H	1:21:A:THR:HG21	2	0.18	0.0	0.18
(1,2614)	1:19:A:ARG:H	1:21:A:THR:HG22	2	0.18	0.0	0.18
(1,2614)	1:19:A:ARG:H	1:21:A:THR:HG23	2	0.18	0.0	0.18
(1,4324)	1:35:A:VAL:HG21	1:27:A:VAL:H	2	0.18	0.03	0.18
(1,4324)	1:35:A:VAL:HG22	1:27:A:VAL:H	2	0.18	0.03	0.18
(1,4324)	1:35:A:VAL:HG23	1:27:A:VAL:H	2	0.18	0.03	0.18
(1,1966)	1:30:A:SER:H	1:35:A:VAL:H	2	0.16	0.06	0.16
(1,3914)	1:97:A:ILE:H	1:96:A:THR:H	2	0.16	0.06	0.16
(1,541)	1:197:A:LEU:HA	1:197:A:LEU:HD21	2	0.16	0.01	0.16
(1,541)	1:197:A:LEU:HA	1:197:A:LEU:HD22	2	0.16	0.01	0.16
(1,541)	1:197:A:LEU:HA	1:197:A:LEU:HD23	2	0.16	0.01	0.16
(1,2878)	1:57:A:SER:H	1:56:A:GLU:HG3	2	0.16	0.02	0.16
(1,1958)	1:201:A:ASP:H	1:199:A:ALA:HB1	2	0.16	0.01	0.16
(1,1958)	1:201:A:ASP:H	1:199:A:ALA:HB2	2	0.16	0.01	0.16
(1,1958)	1:201:A:ASP:H	1:199:A:ALA:HB3	2	0.16	0.01	0.16
(1,2055)	1:176:A:ARG:H	1:174:A:GLU:HG2	2	0.16	0.01	0.16
(1,4148)	1:203:A:ILE:HG21	1:199:A:ALA:HA	2	0.15	0.02	0.15
(1,4148)	1:203:A:ILE:HG22	1:199:A:ALA:HA	2	0.15	0.02	0.15
(1,4148)	1:203:A:ILE:HG23	1:199:A:ALA:HA	2	0.15	0.02	0.15
(1,430)	1:60:A:LYS:H	1:63:A:ASP:HB2	2	0.15	0.04	0.15
(1,2415)	1:134:A:PHE:HZ	1:112:A:ILE:HD11	2	0.15	0.04	0.15
(1,2415)	1:134:A:PHE:HZ	1:112:A:ILE:HD12	2	0.15	0.04	0.15
(1,2415)	1:134:A:PHE:HZ	1:112:A:ILE:HD13	2	0.15	0.04	0.15
(1,3440)	1:56:A:GLU:H	1:165:A:SER:HA	2	0.15	0.04	0.15
(1,261)	1:26:A:VAL:HG11	1:36:A:SER:H	2	0.14	0.03	0.14
(1,261)	1:26:A:VAL:HG12	1:36:A:SER:H	2	0.14	0.03	0.14
(1,261)	1:26:A:VAL:HG13	1:36:A:SER:H	2	0.14	0.03	0.14
(1,1381)	1:174:A:GLU:H	1:176:A:ARG:H	2	0.14	0.02	0.14
(1,3142)	1:114:A:LEU:HD11	1:87:A:ILE:HG21	2	0.14	0.01	0.14
(1,3142)	1:114:A:LEU:HD11	1:87:A:ILE:HG22	2	0.14	0.01	0.14
(1,3142)	1:114:A:LEU:HD11	1:87:A:ILE:HG23	2	0.14	0.01	0.14
(1,3142)	1:114:A:LEU:HD12	1:87:A:ILE:HG21	2	0.14	0.01	0.14
(1,3142)	1:114:A:LEU:HD12	1:87:A:ILE:HG22	2	0.14	0.01	0.14

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,3142)	1:114:A:LEU:HD12	1:87:A:ILE:HG23	2	0.14	0.01	0.14
(1,3142)	1:114:A:LEU:HD13	1:87:A:ILE:HG21	2	0.14	0.01	0.14
(1,3142)	1:114:A:LEU:HD13	1:87:A:ILE:HG22	2	0.14	0.01	0.14
(1,3142)	1:114:A:LEU:HD13	1:87:A:ILE:HG23	2	0.14	0.01	0.14
(1,3282)	1:61:A:LEU:HD11	1:56:A:GLU:H	2	0.14	0.01	0.14
(1,3282)	1:61:A:LEU:HD12	1:56:A:GLU:H	2	0.14	0.01	0.14
(1,3282)	1:61:A:LEU:HD13	1:56:A:GLU:H	2	0.14	0.01	0.14
(1,3402)	1:66:A:TYR:H	1:65:A:LEU:HD11	2	0.14	0.01	0.14
(1,3402)	1:66:A:TYR:H	1:65:A:LEU:HD12	2	0.14	0.01	0.14
(1,3402)	1:66:A:TYR:H	1:65:A:LEU:HD13	2	0.14	0.01	0.14
(1,644)	1:96:A:THR:H	1:94:A:CYS:H	2	0.14	0.02	0.14
(1,1047)	1:203:A:ILE:HG21	1:204:A:LYS:HB2	2	0.14	0.02	0.14
(1,1047)	1:203:A:ILE:HG22	1:204:A:LYS:HB2	2	0.14	0.02	0.14
(1,1047)	1:203:A:ILE:HG23	1:204:A:LYS:HB2	2	0.14	0.02	0.14
(1,3695)	1:61:A:LEU:HD21	1:199:A:ALA:HA	2	0.14	0.02	0.14
(1,3695)	1:61:A:LEU:HD22	1:199:A:ALA:HA	2	0.14	0.02	0.14
(1,3695)	1:61:A:LEU:HD23	1:199:A:ALA:HA	2	0.14	0.02	0.14
(1,3706)	1:112:A:ILE:HD11	1:134:A:PHE:H	2	0.13	0.0	0.13
(1,3706)	1:112:A:ILE:HD12	1:134:A:PHE:H	2	0.13	0.0	0.13
(1,3706)	1:112:A:ILE:HD13	1:134:A:PHE:H	2	0.13	0.0	0.13
(1,3866)	1:5:A:ALA:HA	1:8:A:GLN:HG3	2	0.13	0.01	0.13
(1,4066)	1:151:A:CYS:H	1:10:A:THR:HG21	2	0.13	0.0	0.13
(1,4066)	1:151:A:CYS:H	1:10:A:THR:HG22	2	0.13	0.0	0.13
(1,4066)	1:151:A:CYS:H	1:10:A:THR:HG23	2	0.13	0.0	0.13
(1,4156)	1:208:A:THR:HG21	1:212:A:ARG:H	2	0.13	0.01	0.13
(1,4156)	1:208:A:THR:HG22	1:212:A:ARG:H	2	0.13	0.01	0.13
(1,4156)	1:208:A:THR:HG23	1:212:A:ARG:H	2	0.13	0.01	0.13
(1,1836)	1:81:A:TYR:H	1:72:A:ILE:HG12	2	0.12	0.01	0.12
(1,2169)	1:4:A:LYS:H	1:87:A:ILE:HD11	2	0.12	0.02	0.12
(1,2169)	1:4:A:LYS:H	1:87:A:ILE:HD12	2	0.12	0.02	0.12
(1,2169)	1:4:A:LYS:H	1:87:A:ILE:HD13	2	0.12	0.02	0.12
(1,3284)	1:26:A:VAL:H	1:25:A:LYS:HG2	2	0.12	0.01	0.12
(1,836)	1:15:A:LEU:HD11	1:126:A:ILE:HD11	2	0.12	0.0	0.12
(1,836)	1:15:A:LEU:HD11	1:126:A:ILE:HD12	2	0.12	0.0	0.12
(1,836)	1:15:A:LEU:HD11	1:126:A:ILE:HD13	2	0.12	0.0	0.12
(1,836)	1:15:A:LEU:HD12	1:126:A:ILE:HD11	2	0.12	0.0	0.12
(1,836)	1:15:A:LEU:HD12	1:126:A:ILE:HD12	2	0.12	0.0	0.12
(1,836)	1:15:A:LEU:HD12	1:126:A:ILE:HD13	2	0.12	0.0	0.12
(1,836)	1:15:A:LEU:HD13	1:126:A:ILE:HD11	2	0.12	0.0	0.12
(1,836)	1:15:A:LEU:HD13	1:126:A:ILE:HD12	2	0.12	0.0	0.12
(1,836)	1:15:A:LEU:HD13	1:126:A:ILE:HD13	2	0.12	0.0	0.12
(1,1273)	1:11:A:ALA:H	1:116:A:TYR:HB2	2	0.12	0.0	0.12

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,2099)	1:188:A:MET:HA	1:188:A:MET:HE1	2	0.12	0.01	0.12
(1,2099)	1:188:A:MET:HA	1:188:A:MET:HE2	2	0.12	0.01	0.12
(1,2099)	1:188:A:MET:HA	1:188:A:MET:HE3	2	0.12	0.01	0.12
(1,4121)	1:196:A:ILE:HD11	1:200:A:LYS:HE3	2	0.12	0.01	0.12
(1,4121)	1:196:A:ILE:HD12	1:200:A:LYS:HE3	2	0.12	0.01	0.12
(1,4121)	1:196:A:ILE:HD13	1:200:A:LYS:HE3	2	0.12	0.01	0.12
(1,1262)	1:14:A:VAL:H	1:14:A:VAL:HG21	2	0.12	0.0	0.12
(1,1262)	1:14:A:VAL:H	1:14:A:VAL:HG22	2	0.12	0.0	0.12
(1,1262)	1:14:A:VAL:H	1:14:A:VAL:HG23	2	0.12	0.0	0.12
(1,1339)	1:98:A:THR:H	1:78:A:LEU:HD21	2	0.12	0.0	0.12
(1,1339)	1:98:A:THR:H	1:78:A:LEU:HD22	2	0.12	0.0	0.12
(1,1339)	1:98:A:THR:H	1:78:A:LEU:HD23	2	0.12	0.0	0.12
(1,1448)	1:11:A:ALA:HB1	1:15:A:LEU:HD21	2	0.12	0.0	0.12
(1,1448)	1:11:A:ALA:HB1	1:15:A:LEU:HD22	2	0.12	0.0	0.12
(1,1448)	1:11:A:ALA:HB1	1:15:A:LEU:HD23	2	0.12	0.0	0.12
(1,1448)	1:11:A:ALA:HB2	1:15:A:LEU:HD21	2	0.12	0.0	0.12
(1,1448)	1:11:A:ALA:HB2	1:15:A:LEU:HD22	2	0.12	0.0	0.12
(1,1448)	1:11:A:ALA:HB2	1:15:A:LEU:HD23	2	0.12	0.0	0.12
(1,1448)	1:11:A:ALA:HB3	1:15:A:LEU:HD21	2	0.12	0.0	0.12
(1,1448)	1:11:A:ALA:HB3	1:15:A:LEU:HD22	2	0.12	0.0	0.12
(1,1448)	1:11:A:ALA:HB3	1:15:A:LEU:HD23	2	0.12	0.0	0.12
(1,2666)	1:69:A:GLY:H	1:72:A:ILE:HG21	2	0.12	0.0	0.12
(1,2666)	1:69:A:GLY:H	1:72:A:ILE:HG22	2	0.12	0.0	0.12
(1,2666)	1:69:A:GLY:H	1:72:A:ILE:HG23	2	0.12	0.0	0.12
(1,3760)	1:113:A:ASP:H	1:112:A:ILE:HD11	2	0.12	0.0	0.12
(1,3760)	1:113:A:ASP:H	1:112:A:ILE:HD12	2	0.12	0.0	0.12
(1,3760)	1:113:A:ASP:H	1:112:A:ILE:HD13	2	0.12	0.0	0.12
(1,300)	1:130:A:LYS:H	1:150:A:PRO:HA	2	0.11	0.0	0.11
(1,595)	1:37:A:SER:H	1:27:A:VAL:HB	2	0.11	0.0	0.11
(1,4117)	1:137:A:TYR:H	1:134:A:PHE:HA	2	0.11	0.01	0.11
(1,4203)	1:192:A:LEU:HD21	1:171:A:VAL:HG21	2	0.11	0.01	0.11
(1,4203)	1:192:A:LEU:HD21	1:171:A:VAL:HG22	2	0.11	0.01	0.11
(1,4203)	1:192:A:LEU:HD21	1:171:A:VAL:HG23	2	0.11	0.01	0.11
(1,4203)	1:192:A:LEU:HD22	1:171:A:VAL:HG21	2	0.11	0.01	0.11
(1,4203)	1:192:A:LEU:HD22	1:171:A:VAL:HG22	2	0.11	0.01	0.11
(1,4203)	1:192:A:LEU:HD22	1:171:A:VAL:HG23	2	0.11	0.01	0.11
(1,4203)	1:192:A:LEU:HD23	1:171:A:VAL:HG21	2	0.11	0.01	0.11
(1,4203)	1:192:A:LEU:HD23	1:171:A:VAL:HG22	2	0.11	0.01	0.11
(1,4203)	1:192:A:LEU:HD23	1:171:A:VAL:HG23	2	0.11	0.01	0.11
(1,1105)	1:167:A:LEU:H	1:156:A:SER:H	2	0.11	0.0	0.11
(1,703)	1:98:A:THR:H	1:79:A:GLN:HG3	2	0.1	0.0	0.1
(1,2281)	1:54:A:ILE:HD11	1:52:A:GLY:H	2	0.1	0.0	0.1

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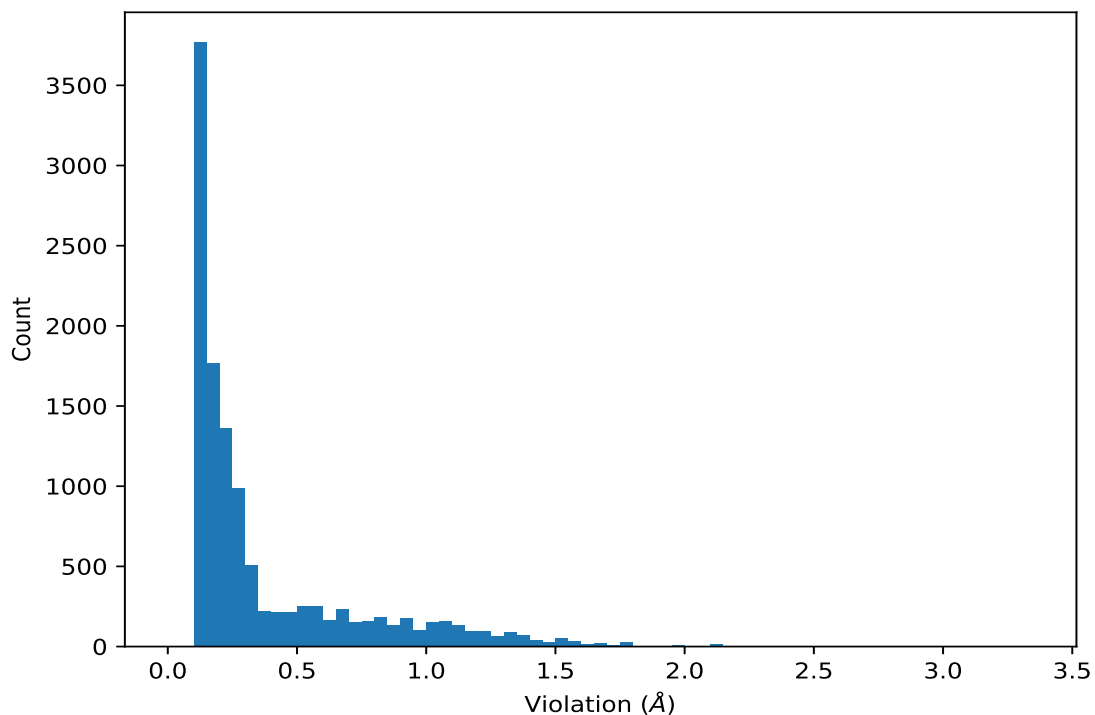
Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,2281)	1:54:A:ILE:HD12	1:52:A:GLY:H	2	0.1	0.0	0.1
(1,2281)	1:54:A:ILE:HD13	1:52:A:GLY:H	2	0.1	0.0	0.1

<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)
(1,4193)	1:24:A:TRP:HZ3	1:49:A:ARG:H	3	3.31
(1,4193)	1:24:A:TRP:HZ3	1:49:A:ARG:H	16	3.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3694)	1:80:A:VAL:HG21	1:79:A:GLN:HG3	13	2.74
(1,3694)	1:80:A:VAL:HG22	1:79:A:GLN:HG3	13	2.74
(1,3694)	1:80:A:VAL:HG23	1:79:A:GLN:HG3	13	2.74
(1,1434)	1:35:A:VAL:H	1:27:A:VAL:HG11	19	2.3
(1,1434)	1:35:A:VAL:H	1:27:A:VAL:HG12	19	2.3
(1,1434)	1:35:A:VAL:H	1:27:A:VAL:HG13	19	2.3
(1,1434)	1:35:A:VAL:H	1:27:A:VAL:HG11	8	2.21
(1,1434)	1:35:A:VAL:H	1:27:A:VAL:HG12	8	2.21
(1,1434)	1:35:A:VAL:H	1:27:A:VAL:HG13	8	2.21
(1,2525)	1:33:A:ILE:HD11	1:50:A:VAL:HG11	12	2.14
(1,2525)	1:33:A:ILE:HD11	1:50:A:VAL:HG12	12	2.14
(1,2525)	1:33:A:ILE:HD11	1:50:A:VAL:HG13	12	2.14
(1,2525)	1:33:A:ILE:HD12	1:50:A:VAL:HG11	12	2.14
(1,2525)	1:33:A:ILE:HD12	1:50:A:VAL:HG12	12	2.14
(1,2525)	1:33:A:ILE:HD12	1:50:A:VAL:HG13	12	2.14
(1,2525)	1:33:A:ILE:HD13	1:50:A:VAL:HG11	12	2.14
(1,2525)	1:33:A:ILE:HD13	1:50:A:VAL:HG12	12	2.14
(1,2525)	1:33:A:ILE:HD13	1:50:A:VAL:HG13	12	2.14
(1,2525)	1:33:A:ILE:HD11	1:50:A:VAL:HG11	11	2.1
(1,2525)	1:33:A:ILE:HD11	1:50:A:VAL:HG12	11	2.1
(1,2525)	1:33:A:ILE:HD11	1:50:A:VAL:HG13	11	2.1
(1,2525)	1:33:A:ILE:HD12	1:50:A:VAL:HG11	11	2.1
(1,2525)	1:33:A:ILE:HD12	1:50:A:VAL:HG12	11	2.1
(1,2525)	1:33:A:ILE:HD12	1:50:A:VAL:HG13	11	2.1
(1,2525)	1:33:A:ILE:HD13	1:50:A:VAL:HG11	11	2.1
(1,2525)	1:33:A:ILE:HD13	1:50:A:VAL:HG12	11	2.1
(1,2525)	1:33:A:ILE:HD13	1:50:A:VAL:HG13	11	2.1
(1,419)	1:79:A:GLN:HG3	1:80:A:VAL:HG21	13	2.04
(1,419)	1:79:A:GLN:HG3	1:80:A:VAL:HG22	13	2.04
(1,419)	1:79:A:GLN:HG3	1:80:A:VAL:HG23	13	2.04
(1,4003)	1:24:A:TRP:HH2	1:49:A:ARG:HG2	16	1.99
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD21	8	1.97
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD22	8	1.97
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD23	8	1.97
(1,1434)	1:35:A:VAL:H	1:27:A:VAL:HG11	16	1.96
(1,1434)	1:35:A:VAL:H	1:27:A:VAL:HG12	16	1.96
(1,1434)	1:35:A:VAL:H	1:27:A:VAL:HG13	16	1.96
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD21	6	1.91
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD22	6	1.91
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD23	6	1.91
(1,797)	1:192:A:LEU:H	1:194:A:ASN:HB2	5	1.89
(1,2676)	1:206:A:HIS:HA	1:60:A:LYS:HD2	14	1.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,749)	1:105:A:SER:HB2	1:179:A:LEU:HG	10	1.85
(1,3759)	1:48:A:TYR:H	1:170:A:PHE:HB3	10	1.82
(1,1207)	1:90:A:ASP:H	1:4:A:LYS:HE3	17	1.81
(1,1932)	1:132:A:VAL:HG11	1:112:A:ILE:HG21	4	1.79
(1,1932)	1:132:A:VAL:HG11	1:112:A:ILE:HG22	4	1.79
(1,1932)	1:132:A:VAL:HG11	1:112:A:ILE:HG23	4	1.79
(1,1932)	1:132:A:VAL:HG12	1:112:A:ILE:HG21	4	1.79
(1,1932)	1:132:A:VAL:HG12	1:112:A:ILE:HG22	4	1.79
(1,1932)	1:132:A:VAL:HG12	1:112:A:ILE:HG23	4	1.79
(1,1932)	1:132:A:VAL:HG13	1:112:A:ILE:HG21	4	1.79
(1,1932)	1:132:A:VAL:HG13	1:112:A:ILE:HG22	4	1.79
(1,1932)	1:132:A:VAL:HG13	1:112:A:ILE:HG23	4	1.79
(1,1694)	1:137:A:TYR:HB3	1:136:A:GLU:HG3	15	1.79
(1,169)	1:76:A:LYS:HE3	1:194:A:ASN:HA	12	1.79
(1,3864)	1:6:A:ILE:H	1:8:A:GLN:HB2	20	1.78
(1,1544)	1:36:A:SER:H	1:26:A:VAL:HG11	4	1.77
(1,1544)	1:36:A:SER:H	1:26:A:VAL:HG12	4	1.77
(1,1544)	1:36:A:SER:H	1:26:A:VAL:HG13	4	1.77
(1,797)	1:192:A:LEU:H	1:194:A:ASN:HB2	8	1.77
(1,3864)	1:6:A:ILE:H	1:8:A:GLN:HB2	9	1.76
(1,3350)	1:24:A:TRP:HD1	1:38:A:LYS:HG3	11	1.76
(1,2676)	1:206:A:HIS:HA	1:60:A:LYS:HD2	10	1.76
(1,2479)	1:66:A:TYR:H	1:71:A:ARG:HB2	7	1.76
(1,1694)	1:137:A:TYR:HB3	1:136:A:GLU:HG3	13	1.76
(1,3937)	1:18:A:ASN:HB2	1:17:A:TYR:HB3	1	1.75
(1,3537)	1:28:A:LYS:H	1:28:A:LYS:HD2	1	1.75
(1,3537)	1:28:A:LYS:H	1:28:A:LYS:HD2	4	1.75
(1,2676)	1:206:A:HIS:HA	1:60:A:LYS:HD2	16	1.75
(1,1772)	1:157:A:PRO:HG3	1:123:A:ASN:HB2	12	1.75
(1,749)	1:105:A:SER:HB2	1:179:A:LEU:HG	15	1.75
(1,3759)	1:48:A:TYR:H	1:170:A:PHE:HB3	12	1.73
(1,3537)	1:28:A:LYS:H	1:28:A:LYS:HD2	15	1.73
(1,3350)	1:24:A:TRP:HD1	1:38:A:LYS:HG3	12	1.73
(1,3759)	1:48:A:TYR:H	1:170:A:PHE:HB3	7	1.72
(1,3537)	1:28:A:LYS:H	1:28:A:LYS:HD2	9	1.72
(1,3537)	1:28:A:LYS:H	1:28:A:LYS:HD2	12	1.72
(1,691)	1:71:A:ARG:HB2	1:68:A:THR:H	12	1.72
(1,3350)	1:24:A:TRP:HD1	1:38:A:LYS:HG3	9	1.71
(1,3350)	1:24:A:TRP:HD1	1:38:A:LYS:HG3	17	1.71
(1,1544)	1:36:A:SER:H	1:26:A:VAL:HG11	12	1.71
(1,1544)	1:36:A:SER:H	1:26:A:VAL:HG12	12	1.71
(1,1544)	1:36:A:SER:H	1:26:A:VAL:HG13	12	1.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1544)	1:36:A:SER:H	1:26:A:VAL:HG11	11	1.69
(1,1544)	1:36:A:SER:H	1:26:A:VAL:HG12	11	1.69
(1,1544)	1:36:A:SER:H	1:26:A:VAL:HG13	11	1.69
(1,789)	1:176:A:ARG:HA	1:174:A:GLU:HG2	3	1.69
(1,169)	1:76:A:LYS:HE3	1:194:A:ASN:HA	9	1.69
(1,3718)	1:132:A:VAL:HG11	1:84:A:VAL:HG21	4	1.68
(1,3718)	1:132:A:VAL:HG11	1:84:A:VAL:HG22	4	1.68
(1,3718)	1:132:A:VAL:HG11	1:84:A:VAL:HG23	4	1.68
(1,3718)	1:132:A:VAL:HG12	1:84:A:VAL:HG21	4	1.68
(1,3718)	1:132:A:VAL:HG12	1:84:A:VAL:HG22	4	1.68
(1,3718)	1:132:A:VAL:HG12	1:84:A:VAL:HG23	4	1.68
(1,3718)	1:132:A:VAL:HG13	1:84:A:VAL:HG21	4	1.68
(1,3718)	1:132:A:VAL:HG13	1:84:A:VAL:HG22	4	1.68
(1,3718)	1:132:A:VAL:HG13	1:84:A:VAL:HG23	4	1.68
(1,1544)	1:36:A:SER:H	1:26:A:VAL:HG11	7	1.68
(1,1544)	1:36:A:SER:H	1:26:A:VAL:HG12	7	1.68
(1,1544)	1:36:A:SER:H	1:26:A:VAL:HG13	7	1.68
(1,169)	1:76:A:LYS:HE3	1:194:A:ASN:HA	3	1.68
(1,2866)	1:147:A:TYR:H	1:176:A:ARG:HB2	2	1.67
(1,2676)	1:206:A:HIS:HA	1:60:A:LYS:HD2	8	1.66
(1,3350)	1:24:A:TRP:HD1	1:38:A:LYS:HG3	2	1.65
(1,2676)	1:206:A:HIS:HA	1:60:A:LYS:HD2	3	1.65
(1,4354)	1:167:A:LEU:H	1:156:A:SER:HB3	17	1.64
(1,3759)	1:48:A:TYR:H	1:170:A:PHE:HB3	8	1.64
(1,3537)	1:28:A:LYS:H	1:28:A:LYS:HD2	6	1.64
(1,3684)	1:61:A:LEU:H	1:56:A:GLU:HG2	17	1.63
(1,2479)	1:66:A:TYR:H	1:71:A:ARG:HB2	10	1.63
(1,3759)	1:48:A:TYR:H	1:170:A:PHE:HB3	20	1.62
(1,2825)	1:68:A:THR:H	1:71:A:ARG:HB2	12	1.62
(1,169)	1:76:A:LYS:HE3	1:194:A:ASN:HA	10	1.62
(1,3441)	1:79:A:GLN:HB2	1:99:A:GLN:HG3	16	1.61
(1,2014)	1:18:A:ASN:HB2	1:15:A:LEU:HB2	10	1.61
(1,1075)	1:12:A:GLN:H	1:118:A:LYS:HE3	2	1.61
(1,927)	1:35:A:VAL:HB	1:27:A:VAL:HG11	19	1.61
(1,927)	1:35:A:VAL:HB	1:27:A:VAL:HG12	19	1.61
(1,927)	1:35:A:VAL:HB	1:27:A:VAL:HG13	19	1.61
(1,2479)	1:66:A:TYR:H	1:71:A:ARG:HB2	14	1.6
(1,4376)	1:200:A:LYS:HD3	1:54:A:ILE:H	8	1.59
(1,3776)	1:114:A:LEU:HB3	1:93:A:ILE:HB	20	1.59
(1,2206)	1:168:A:VAL:HG11	1:51:A:GLU:HG2	14	1.59
(1,2206)	1:168:A:VAL:HG12	1:51:A:GLU:HG2	14	1.59
(1,2206)	1:168:A:VAL:HG13	1:51:A:GLU:HG2	14	1.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2206)	1:168:A:VAL:HG11	1:51:A:GLU:HG2	16	1.59
(1,2206)	1:168:A:VAL:HG12	1:51:A:GLU:HG2	16	1.59
(1,2206)	1:168:A:VAL:HG13	1:51:A:GLU:HG2	16	1.59
(1,1072)	1:5:A:ALA:H	1:8:A:GLN:HG3	9	1.59
(1,927)	1:35:A:VAL:HB	1:27:A:VAL:HG11	8	1.59
(1,927)	1:35:A:VAL:HB	1:27:A:VAL:HG12	8	1.59
(1,927)	1:35:A:VAL:HB	1:27:A:VAL:HG13	8	1.59
(1,3441)	1:79:A:GLN:HB2	1:99:A:GLN:HG3	14	1.58
(1,2689)	1:105:A:SER:HB3	1:102:A:ALA:HB1	12	1.58
(1,2689)	1:105:A:SER:HB3	1:102:A:ALA:HB2	12	1.58
(1,2689)	1:105:A:SER:HB3	1:102:A:ALA:HB3	12	1.58
(1,1772)	1:157:A:PRO:HG3	1:123:A:ASN:HB2	19	1.58
(1,797)	1:192:A:LEU:H	1:194:A:ASN:HB2	12	1.58
(1,593)	1:84:A:VAL:H	1:86:A:ARG:HG2	2	1.58
(1,4242)	1:130:A:LYS:HD2	1:10:A:THR:H	19	1.57
(1,1932)	1:132:A:VAL:HG11	1:112:A:ILE:HG21	12	1.57
(1,1932)	1:132:A:VAL:HG11	1:112:A:ILE:HG22	12	1.57
(1,1932)	1:132:A:VAL:HG11	1:112:A:ILE:HG23	12	1.57
(1,1932)	1:132:A:VAL:HG12	1:112:A:ILE:HG21	12	1.57
(1,1932)	1:132:A:VAL:HG12	1:112:A:ILE:HG22	12	1.57
(1,1932)	1:132:A:VAL:HG12	1:112:A:ILE:HG23	12	1.57
(1,1932)	1:132:A:VAL:HG13	1:112:A:ILE:HG21	12	1.57
(1,1932)	1:132:A:VAL:HG13	1:112:A:ILE:HG22	12	1.57
(1,1932)	1:132:A:VAL:HG13	1:112:A:ILE:HG23	12	1.57
(1,1066)	1:144:A:ILE:HA	1:109:A:ARG:HG2	2	1.57
(1,3684)	1:61:A:LEU:H	1:56:A:GLU:HG2	18	1.56
(1,3567)	1:35:A:VAL:HG21	1:37:A:SER:H	12	1.56
(1,3567)	1:35:A:VAL:HG22	1:37:A:SER:H	12	1.56
(1,3567)	1:35:A:VAL:HG23	1:37:A:SER:H	12	1.56
(1,4354)	1:167:A:LEU:H	1:156:A:SER:HB3	18	1.55
(1,2366)	1:22:A:SER:H	1:38:A:LYS:HD2	12	1.55
(1,1980)	1:186:A:LYS:HG3	1:185:A:GLU:H	6	1.55
(1,4354)	1:167:A:LEU:H	1:156:A:SER:HB3	9	1.54
(1,3684)	1:61:A:LEU:H	1:56:A:GLU:HG2	4	1.54
(1,2689)	1:105:A:SER:HB3	1:102:A:ALA:HB1	16	1.54
(1,2689)	1:105:A:SER:HB3	1:102:A:ALA:HB2	16	1.54
(1,2689)	1:105:A:SER:HB3	1:102:A:ALA:HB3	16	1.54
(1,2206)	1:168:A:VAL:HG11	1:51:A:GLU:HG2	2	1.54
(1,2206)	1:168:A:VAL:HG12	1:51:A:GLU:HG2	2	1.54
(1,2206)	1:168:A:VAL:HG13	1:51:A:GLU:HG2	2	1.54
(1,4354)	1:167:A:LEU:H	1:156:A:SER:HB3	14	1.53
(1,709)	1:167:A:LEU:HB3	1:166:A:LYS:HE2	17	1.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,368)	1:192:A:LEU:HG	1:171:A:VAL:HG21	1	1.53
(1,368)	1:192:A:LEU:HG	1:171:A:VAL:HG22	1	1.53
(1,368)	1:192:A:LEU:HG	1:171:A:VAL:HG23	1	1.53
(1,2689)	1:105:A:SER:HB3	1:102:A:ALA:HB1	8	1.52
(1,2689)	1:105:A:SER:HB3	1:102:A:ALA:HB2	8	1.52
(1,2689)	1:105:A:SER:HB3	1:102:A:ALA:HB3	8	1.52
(1,1772)	1:157:A:PRO:HG3	1:123:A:ASN:HB2	2	1.52
(1,1544)	1:36:A:SER:H	1:26:A:VAL:HG11	9	1.52
(1,1544)	1:36:A:SER:H	1:26:A:VAL:HG12	9	1.52
(1,1544)	1:36:A:SER:H	1:26:A:VAL:HG13	9	1.52
(1,169)	1:76:A:LYS:HE3	1:194:A:ASN:HA	11	1.52
(1,3)	1:76:A:LYS:HE3	1:197:A:LEU:HD11	19	1.52
(1,3)	1:76:A:LYS:HE3	1:197:A:LEU:HD12	19	1.52
(1,3)	1:76:A:LYS:HE3	1:197:A:LEU:HD13	19	1.52
(1,3567)	1:35:A:VAL:HG21	1:37:A:SER:H	10	1.51
(1,3567)	1:35:A:VAL:HG22	1:37:A:SER:H	10	1.51
(1,3567)	1:35:A:VAL:HG23	1:37:A:SER:H	10	1.51
(1,2689)	1:105:A:SER:HB3	1:102:A:ALA:HB1	4	1.51
(1,2689)	1:105:A:SER:HB3	1:102:A:ALA:HB2	4	1.51
(1,2689)	1:105:A:SER:HB3	1:102:A:ALA:HB3	4	1.51
(1,2206)	1:168:A:VAL:HG11	1:51:A:GLU:HG2	15	1.51
(1,2206)	1:168:A:VAL:HG12	1:51:A:GLU:HG2	15	1.51
(1,2206)	1:168:A:VAL:HG13	1:51:A:GLU:HG2	15	1.51
(1,1772)	1:157:A:PRO:HG3	1:123:A:ASN:HB2	10	1.51
(1,593)	1:84:A:VAL:H	1:86:A:ARG:HG2	14	1.51
(1,320)	1:25:A:LYS:H	1:25:A:LYS:HE3	4	1.51
(1,4354)	1:167:A:LEU:H	1:156:A:SER:HB3	12	1.5
(1,3684)	1:61:A:LEU:H	1:56:A:GLU:HG2	2	1.5
(1,3441)	1:79:A:GLN:HB2	1:99:A:GLN:HG3	19	1.5
(1,3239)	1:133:A:ASP:HB2	1:132:A:VAL:HG11	18	1.5
(1,3239)	1:133:A:ASP:HB2	1:132:A:VAL:HG12	18	1.5
(1,3239)	1:133:A:ASP:HB2	1:132:A:VAL:HG13	18	1.5
(1,2960)	1:132:A:VAL:H	1:133:A:ASP:HB2	5	1.5
(1,2960)	1:132:A:VAL:H	1:133:A:ASP:HB2	15	1.5
(1,2960)	1:132:A:VAL:H	1:133:A:ASP:HB2	18	1.5
(1,2689)	1:105:A:SER:HB3	1:102:A:ALA:HB1	3	1.5
(1,2689)	1:105:A:SER:HB3	1:102:A:ALA:HB2	3	1.5
(1,2689)	1:105:A:SER:HB3	1:102:A:ALA:HB3	3	1.5
(1,2206)	1:168:A:VAL:HG11	1:51:A:GLU:HG2	3	1.5
(1,2206)	1:168:A:VAL:HG12	1:51:A:GLU:HG2	3	1.5
(1,2206)	1:168:A:VAL:HG13	1:51:A:GLU:HG2	3	1.5
(1,2206)	1:168:A:VAL:HG11	1:51:A:GLU:HG2	10	1.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2206)	1:168:A:VAL:HG12	1:51:A:GLU:HG2	10	1.49
(1,2206)	1:168:A:VAL:HG13	1:51:A:GLU:HG2	10	1.49
(1,1772)	1:157:A:PRO:HG3	1:123:A:ASN:HB2	3	1.49
(1,4383)	1:137:A:TYR:HB3	1:136:A:GLU:HB3	7	1.48
(1,4328)	1:126:A:ILE:H	1:155:A:CYS:HB2	16	1.48
(1,4308)	1:70:A:ASP:H	1:71:A:ARG:HB2	19	1.48
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG11	19	1.48
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG12	19	1.48
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG13	19	1.48
(1,2960)	1:132:A:VAL:H	1:133:A:ASP:HB2	16	1.48
(1,2479)	1:66:A:TYR:H	1:71:A:ARG:HB2	4	1.48
(1,2366)	1:22:A:SER:H	1:38:A:LYS:HD2	17	1.48
(1,1772)	1:157:A:PRO:HG3	1:123:A:ASN:HB2	11	1.48
(1,736)	1:61:A:LEU:HG	1:56:A:GLU:HG2	17	1.48
(1,593)	1:84:A:VAL:H	1:86:A:ARG:HG2	15	1.48
(1,4354)	1:167:A:LEU:H	1:156:A:SER:HB3	1	1.47
(1,2206)	1:168:A:VAL:HG11	1:51:A:GLU:HG2	18	1.47
(1,2206)	1:168:A:VAL:HG12	1:51:A:GLU:HG2	18	1.47
(1,2206)	1:168:A:VAL:HG13	1:51:A:GLU:HG2	18	1.47
(1,3937)	1:18:A:ASN:HB2	1:17:A:TYR:HB3	10	1.46
(1,3937)	1:18:A:ASN:HB2	1:17:A:TYR:HB3	20	1.46
(1,2960)	1:132:A:VAL:H	1:133:A:ASP:HB2	8	1.46
(1,1772)	1:157:A:PRO:HG3	1:123:A:ASN:HB2	5	1.46
(1,1683)	1:119:A:ARG:H	1:119:A:ARG:HD2	1	1.46
(1,1683)	1:119:A:ARG:H	1:119:A:ARG:HD2	11	1.46
(1,3239)	1:133:A:ASP:HB2	1:132:A:VAL:HG11	12	1.45
(1,3239)	1:133:A:ASP:HB2	1:132:A:VAL:HG12	12	1.45
(1,3239)	1:133:A:ASP:HB2	1:132:A:VAL:HG13	12	1.45
(1,2479)	1:66:A:TYR:H	1:71:A:ARG:HB2	15	1.45
(1,2459)	1:134:A:PHE:H	1:112:A:ILE:HG12	2	1.45
(1,368)	1:192:A:LEU:HG	1:171:A:VAL:HG21	7	1.45
(1,368)	1:192:A:LEU:HG	1:171:A:VAL:HG22	7	1.45
(1,368)	1:192:A:LEU:HG	1:171:A:VAL:HG23	7	1.45
(1,4354)	1:167:A:LEU:H	1:156:A:SER:HB3	19	1.44
(1,3429)	1:130:A:LYS:HE2	1:10:A:THR:HG21	12	1.44
(1,3429)	1:130:A:LYS:HE2	1:10:A:THR:HG22	12	1.44
(1,3429)	1:130:A:LYS:HE2	1:10:A:THR:HG23	12	1.44
(1,2984)	1:166:A:LYS:HG2	1:51:A:GLU:HG2	12	1.44
(1,2960)	1:132:A:VAL:H	1:133:A:ASP:HB2	12	1.44
(1,2676)	1:206:A:HIS:HA	1:60:A:LYS:HD2	11	1.44
(1,368)	1:192:A:LEU:HG	1:171:A:VAL:HG21	15	1.44
(1,368)	1:192:A:LEU:HG	1:171:A:VAL:HG22	15	1.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,368)	1:192:A:LEU:HG	1:171:A:VAL:HG23	15	1.44
(1,287)	1:26:A:VAL:H	1:25:A:LYS:HE3	4	1.44
(1,4354)	1:167:A:LEU:H	1:156:A:SER:HB3	4	1.43
(1,4354)	1:167:A:LEU:H	1:156:A:SER:HB3	20	1.43
(1,2459)	1:134:A:PHE:H	1:112:A:ILE:HG12	9	1.43
(1,2459)	1:134:A:PHE:H	1:112:A:ILE:HG12	11	1.43
(1,736)	1:61:A:LEU:HG	1:56:A:GLU:HG2	18	1.43
(1,617)	1:169:A:MET:HA	1:50:A:VAL:HG11	14	1.43
(1,617)	1:169:A:MET:HA	1:50:A:VAL:HG12	14	1.43
(1,617)	1:169:A:MET:HA	1:50:A:VAL:HG13	14	1.43
(1,4383)	1:137:A:TYR:HB3	1:136:A:GLU:HB3	15	1.42
(1,4328)	1:126:A:ILE:H	1:155:A:CYS:HB2	17	1.42
(1,3441)	1:79:A:GLN:HB2	1:99:A:GLN:HG3	10	1.42
(1,2676)	1:206:A:HIS:HA	1:60:A:LYS:HD2	13	1.42
(1,2676)	1:206:A:HIS:HA	1:60:A:LYS:HD2	20	1.42
(1,1994)	1:176:A:ARG:H	1:109:A:ARG:HD3	14	1.42
(1,4354)	1:167:A:LEU:H	1:156:A:SER:HB3	7	1.41
(1,4354)	1:167:A:LEU:H	1:156:A:SER:HB3	13	1.41
(1,2479)	1:66:A:TYR:H	1:71:A:ARG:HB2	2	1.41
(1,1772)	1:157:A:PRO:HG3	1:123:A:ASN:HB2	9	1.41
(1,1544)	1:36:A:SER:H	1:26:A:VAL:HG11	6	1.41
(1,1544)	1:36:A:SER:H	1:26:A:VAL:HG12	6	1.41
(1,1544)	1:36:A:SER:H	1:26:A:VAL:HG13	6	1.41
(1,3624)	1:179:A:LEU:HA	1:106:A:ILE:HG12	6	1.4
(1,2459)	1:134:A:PHE:H	1:112:A:ILE:HG12	5	1.4
(1,2206)	1:168:A:VAL:HG11	1:51:A:GLU:HG2	19	1.4
(1,2206)	1:168:A:VAL:HG12	1:51:A:GLU:HG2	19	1.4
(1,2206)	1:168:A:VAL:HG13	1:51:A:GLU:HG2	19	1.4
(1,195)	1:127:A:ILE:HD11	1:67:A:GLN:HG3	6	1.4
(1,195)	1:127:A:ILE:HD12	1:67:A:GLN:HG3	6	1.4
(1,195)	1:127:A:ILE:HD13	1:67:A:GLN:HG3	6	1.4
(1,4354)	1:167:A:LEU:H	1:156:A:SER:HB3	3	1.39
(1,3567)	1:35:A:VAL:HG21	1:37:A:SER:H	16	1.39
(1,3567)	1:35:A:VAL:HG22	1:37:A:SER:H	16	1.39
(1,3567)	1:35:A:VAL:HG23	1:37:A:SER:H	16	1.39
(1,2167)	1:60:A:LYS:HG3	1:61:A:LEU:HD21	1	1.39
(1,2167)	1:60:A:LYS:HG3	1:61:A:LEU:HD22	1	1.39
(1,2167)	1:60:A:LYS:HG3	1:61:A:LEU:HD23	1	1.39
(1,1980)	1:186:A:LYS:HG3	1:185:A:GLU:H	20	1.39
(1,1772)	1:157:A:PRO:HG3	1:123:A:ASN:HB2	16	1.39
(1,993)	1:60:A:LYS:HG3	1:63:A:ASP:HB2	12	1.39
(1,691)	1:71:A:ARG:HB2	1:68:A:THR:H	11	1.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,402)	1:194:A:ASN:HA	1:76:A:LYS:HE3	12	1.39
(1,4354)	1:167:A:LEU:H	1:156:A:SER:HB3	6	1.38
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG11	15	1.38
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG12	15	1.38
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG13	15	1.38
(1,3776)	1:114:A:LEU:HB3	1:93:A:ILE:HB	4	1.38
(1,3776)	1:114:A:LEU:HB3	1:93:A:ILE:HB	10	1.38
(1,2960)	1:132:A:VAL:H	1:133:A:ASP:HB2	3	1.38
(1,2479)	1:66:A:TYR:H	1:71:A:ARG:HB2	16	1.38
(1,2459)	1:134:A:PHE:H	1:112:A:ILE:HG12	10	1.38
(1,2366)	1:22:A:SER:H	1:38:A:LYS:HD2	9	1.38
(1,2065)	1:102:A:ALA:HB1	1:105:A:SER:HB3	12	1.38
(1,2065)	1:102:A:ALA:HB2	1:105:A:SER:HB3	12	1.38
(1,2065)	1:102:A:ALA:HB3	1:105:A:SER:HB3	12	1.38
(1,1980)	1:186:A:LYS:HG3	1:185:A:GLU:H	2	1.38
(1,1772)	1:157:A:PRO:HG3	1:123:A:ASN:HB2	15	1.38
(1,368)	1:192:A:LEU:HG	1:171:A:VAL:HG21	2	1.38
(1,368)	1:192:A:LEU:HG	1:171:A:VAL:HG22	2	1.38
(1,368)	1:192:A:LEU:HG	1:171:A:VAL:HG23	2	1.38
(1,368)	1:192:A:LEU:HG	1:171:A:VAL:HG21	12	1.38
(1,368)	1:192:A:LEU:HG	1:171:A:VAL:HG22	12	1.38
(1,368)	1:192:A:LEU:HG	1:171:A:VAL:HG23	12	1.38
(1,4028)	1:72:A:ILE:HG13	1:70:A:ASP:H	6	1.37
(1,3776)	1:114:A:LEU:HB3	1:93:A:ILE:HB	19	1.37
(1,2676)	1:206:A:HIS:HA	1:60:A:LYS:HD2	1	1.37
(1,2459)	1:134:A:PHE:H	1:112:A:ILE:HG12	8	1.37
(1,2366)	1:22:A:SER:H	1:38:A:LYS:HD2	2	1.37
(1,2167)	1:60:A:LYS:HG3	1:61:A:LEU:HD21	11	1.37
(1,2167)	1:60:A:LYS:HG3	1:61:A:LEU:HD22	11	1.37
(1,2167)	1:60:A:LYS:HG3	1:61:A:LEU:HD23	11	1.37
(1,688)	1:171:A:VAL:H	1:169:A:MET:HG2	17	1.37
(1,3567)	1:35:A:VAL:HG21	1:37:A:SER:H	6	1.36
(1,3567)	1:35:A:VAL:HG22	1:37:A:SER:H	6	1.36
(1,3567)	1:35:A:VAL:HG23	1:37:A:SER:H	6	1.36
(1,2459)	1:134:A:PHE:H	1:112:A:ILE:HG12	20	1.36
(1,2167)	1:60:A:LYS:HG3	1:61:A:LEU:HD21	13	1.36
(1,2167)	1:60:A:LYS:HG3	1:61:A:LEU:HD22	13	1.36
(1,2167)	1:60:A:LYS:HG3	1:61:A:LEU:HD23	13	1.36
(1,4328)	1:126:A:ILE:H	1:155:A:CYS:HB2	7	1.35
(1,4220)	1:77:A:SER:HB3	1:78:A:LEU:HG	16	1.35
(1,3567)	1:35:A:VAL:HG21	1:37:A:SER:H	5	1.35
(1,3567)	1:35:A:VAL:HG22	1:37:A:SER:H	5	1.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3567)	1:35:A:VAL:HG23	1:37:A:SER:H	5	1.35
(1,3567)	1:35:A:VAL:HG21	1:37:A:SER:H	7	1.35
(1,3567)	1:35:A:VAL:HG22	1:37:A:SER:H	7	1.35
(1,3567)	1:35:A:VAL:HG23	1:37:A:SER:H	7	1.35
(1,2366)	1:22:A:SER:H	1:38:A:LYS:HD2	1	1.35
(1,1772)	1:157:A:PRO:HG3	1:123:A:ASN:HB2	4	1.35
(1,1772)	1:157:A:PRO:HG3	1:123:A:ASN:HB2	18	1.35
(1,731)	1:46:A:ASN:HB3	1:47:A:LEU:HB3	1	1.35
(1,731)	1:46:A:ASN:HB3	1:47:A:LEU:HB3	17	1.35
(1,691)	1:71:A:ARG:HB2	1:68:A:THR:H	19	1.35
(1,230)	1:68:A:THR:HA	1:67:A:GLN:HB3	6	1.35
(1,169)	1:76:A:LYS:HE3	1:194:A:ASN:HA	19	1.35
(1,3624)	1:179:A:LEU:HA	1:106:A:ILE:HG12	2	1.34
(1,3567)	1:35:A:VAL:HG21	1:37:A:SER:H	14	1.34
(1,3567)	1:35:A:VAL:HG22	1:37:A:SER:H	14	1.34
(1,3567)	1:35:A:VAL:HG23	1:37:A:SER:H	14	1.34
(1,3567)	1:35:A:VAL:HG21	1:37:A:SER:H	18	1.34
(1,3567)	1:35:A:VAL:HG22	1:37:A:SER:H	18	1.34
(1,3567)	1:35:A:VAL:HG23	1:37:A:SER:H	18	1.34
(1,2897)	1:203:A:ILE:HG21	1:206:A:HIS:HB3	20	1.34
(1,2897)	1:203:A:ILE:HG22	1:206:A:HIS:HB3	20	1.34
(1,2897)	1:203:A:ILE:HG23	1:206:A:HIS:HB3	20	1.34
(1,2866)	1:147:A:TYR:H	1:176:A:ARG:HB2	19	1.34
(1,2676)	1:206:A:HIS:HA	1:60:A:LYS:HD2	15	1.34
(1,2459)	1:134:A:PHE:H	1:112:A:ILE:HG12	19	1.34
(1,2206)	1:168:A:VAL:HG11	1:51:A:GLU:HG2	1	1.34
(1,2206)	1:168:A:VAL:HG12	1:51:A:GLU:HG2	1	1.34
(1,2206)	1:168:A:VAL:HG13	1:51:A:GLU:HG2	1	1.34
(1,2065)	1:102:A:ALA:HB1	1:105:A:SER:HB3	16	1.34
(1,2065)	1:102:A:ALA:HB2	1:105:A:SER:HB3	16	1.34
(1,2065)	1:102:A:ALA:HB3	1:105:A:SER:HB3	16	1.34
(1,731)	1:46:A:ASN:HB3	1:47:A:LEU:HB3	11	1.34
(1,169)	1:76:A:LYS:HE3	1:194:A:ASN:HA	14	1.34
(1,4367)	1:68:A:THR:HG21	1:83:A:MET:HG3	1	1.33
(1,4367)	1:68:A:THR:HG22	1:83:A:MET:HG3	1	1.33
(1,4367)	1:68:A:THR:HG23	1:83:A:MET:HG3	1	1.33
(1,4328)	1:126:A:ILE:H	1:155:A:CYS:HB2	10	1.33
(1,4328)	1:126:A:ILE:H	1:155:A:CYS:HB2	19	1.33
(1,4170)	1:144:A:ILE:H	1:109:A:ARG:HG2	2	1.33
(1,2897)	1:203:A:ILE:HG21	1:206:A:HIS:HB3	6	1.33
(1,2897)	1:203:A:ILE:HG22	1:206:A:HIS:HB3	6	1.33
(1,2897)	1:203:A:ILE:HG23	1:206:A:HIS:HB3	6	1.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2479)	1:66:A:TYR:H	1:71:A:ARG:HB2	13	1.33
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG11	15	1.33
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG12	15	1.33
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG13	15	1.33
(1,2206)	1:168:A:VAL:HG11	1:51:A:GLU:HG2	7	1.33
(1,2206)	1:168:A:VAL:HG12	1:51:A:GLU:HG2	7	1.33
(1,2206)	1:168:A:VAL:HG13	1:51:A:GLU:HG2	7	1.33
(1,1772)	1:157:A:PRO:HG3	1:123:A:ASN:HB2	17	1.33
(1,617)	1:169:A:MET:HA	1:50:A:VAL:HG11	20	1.33
(1,617)	1:169:A:MET:HA	1:50:A:VAL:HG12	20	1.33
(1,617)	1:169:A:MET:HA	1:50:A:VAL:HG13	20	1.33
(1,320)	1:25:A:LYS:H	1:25:A:LYS:HE3	17	1.33
(1,169)	1:76:A:LYS:HE3	1:194:A:ASN:HA	6	1.33
(1,4328)	1:126:A:ILE:H	1:155:A:CYS:HB2	11	1.32
(1,4328)	1:126:A:ILE:H	1:155:A:CYS:HB2	18	1.32
(1,4220)	1:77:A:SER:HB3	1:78:A:LEU:HG	6	1.32
(1,3776)	1:114:A:LEU:HB3	1:93:A:ILE:HB	14	1.32
(1,3114)	1:22:A:SER:H	1:24:A:TRP:HB2	3	1.32
(1,2897)	1:203:A:ILE:HG21	1:206:A:HIS:HB3	7	1.32
(1,2897)	1:203:A:ILE:HG22	1:206:A:HIS:HB3	7	1.32
(1,2897)	1:203:A:ILE:HG23	1:206:A:HIS:HB3	7	1.32
(1,2459)	1:134:A:PHE:H	1:112:A:ILE:HG12	13	1.32
(1,2065)	1:102:A:ALA:HB1	1:105:A:SER:HB3	8	1.32
(1,2065)	1:102:A:ALA:HB2	1:105:A:SER:HB3	8	1.32
(1,2065)	1:102:A:ALA:HB3	1:105:A:SER:HB3	8	1.32
(1,4355)	1:29:A:THR:HB	1:33:A:ILE:HG12	4	1.31
(1,3937)	1:18:A:ASN:HB2	1:17:A:TYR:HB3	5	1.31
(1,3776)	1:114:A:LEU:HB3	1:93:A:ILE:HB	7	1.31
(1,3776)	1:114:A:LEU:HB3	1:93:A:ILE:HB	12	1.31
(1,3567)	1:35:A:VAL:HG21	1:37:A:SER:H	19	1.31
(1,3567)	1:35:A:VAL:HG22	1:37:A:SER:H	19	1.31
(1,3567)	1:35:A:VAL:HG23	1:37:A:SER:H	19	1.31
(1,2897)	1:203:A:ILE:HG21	1:206:A:HIS:HB3	3	1.31
(1,2897)	1:203:A:ILE:HG22	1:206:A:HIS:HB3	3	1.31
(1,2897)	1:203:A:ILE:HG23	1:206:A:HIS:HB3	3	1.31
(1,2479)	1:66:A:TYR:H	1:71:A:ARG:HB2	6	1.31
(1,2335)	1:7:A:ALA:H	1:8:A:GLN:HG3	9	1.31
(1,2206)	1:168:A:VAL:HG11	1:51:A:GLU:HG2	11	1.31
(1,2206)	1:168:A:VAL:HG12	1:51:A:GLU:HG2	11	1.31
(1,2206)	1:168:A:VAL:HG13	1:51:A:GLU:HG2	11	1.31
(1,2065)	1:102:A:ALA:HB1	1:105:A:SER:HB3	4	1.31
(1,2065)	1:102:A:ALA:HB2	1:105:A:SER:HB3	4	1.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2065)	1:102:A:ALA:HB3	1:105:A:SER:HB3	4	1.31
(1,4354)	1:167:A:LEU:H	1:156:A:SER:HB3	5	1.3
(1,4308)	1:70:A:ASP:H	1:71:A:ARG:HB2	12	1.3
(1,3567)	1:35:A:VAL:HG21	1:37:A:SER:H	1	1.3
(1,3567)	1:35:A:VAL:HG22	1:37:A:SER:H	1	1.3
(1,3567)	1:35:A:VAL:HG23	1:37:A:SER:H	1	1.3
(1,2897)	1:203:A:ILE:HG21	1:206:A:HIS:HB3	18	1.3
(1,2897)	1:203:A:ILE:HG22	1:206:A:HIS:HB3	18	1.3
(1,2897)	1:203:A:ILE:HG23	1:206:A:HIS:HB3	18	1.3
(1,2459)	1:134:A:PHE:H	1:112:A:ILE:HG12	14	1.3
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG11	5	1.3
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG12	5	1.3
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG13	5	1.3
(1,2206)	1:168:A:VAL:HG11	1:51:A:GLU:HG2	4	1.3
(1,2206)	1:168:A:VAL:HG12	1:51:A:GLU:HG2	4	1.3
(1,2206)	1:168:A:VAL:HG13	1:51:A:GLU:HG2	4	1.3
(1,2065)	1:102:A:ALA:HB1	1:105:A:SER:HB3	3	1.3
(1,2065)	1:102:A:ALA:HB2	1:105:A:SER:HB3	3	1.3
(1,2065)	1:102:A:ALA:HB3	1:105:A:SER:HB3	3	1.3
(1,1923)	1:71:A:ARG:HB3	1:78:A:LEU:HG	20	1.3
(1,4070)	1:42:A:LYS:HD3	1:42:A:LYS:HB3	8	1.29
(1,3896)	1:130:A:LYS:H	1:148:A:ASN:HB3	11	1.29
(1,3759)	1:48:A:TYR:H	1:170:A:PHE:HB3	18	1.29
(1,3567)	1:35:A:VAL:HG21	1:37:A:SER:H	2	1.29
(1,3567)	1:35:A:VAL:HG22	1:37:A:SER:H	2	1.29
(1,3567)	1:35:A:VAL:HG23	1:37:A:SER:H	2	1.29
(1,2897)	1:203:A:ILE:HG21	1:206:A:HIS:HB3	19	1.29
(1,2897)	1:203:A:ILE:HG22	1:206:A:HIS:HB3	19	1.29
(1,2897)	1:203:A:ILE:HG23	1:206:A:HIS:HB3	19	1.29
(1,2825)	1:68:A:THR:H	1:71:A:ARG:HB2	11	1.29
(1,2796)	1:203:A:ILE:HD11	1:63:A:ASP:HB2	15	1.29
(1,2796)	1:203:A:ILE:HD12	1:63:A:ASP:HB2	15	1.29
(1,2796)	1:203:A:ILE:HD13	1:63:A:ASP:HB2	15	1.29
(1,1994)	1:176:A:ARG:H	1:109:A:ARG:HD3	6	1.29
(1,1865)	1:132:A:VAL:HG11	1:112:A:ILE:HG21	4	1.29
(1,1865)	1:132:A:VAL:HG11	1:112:A:ILE:HG22	4	1.29
(1,1865)	1:132:A:VAL:HG11	1:112:A:ILE:HG23	4	1.29
(1,1865)	1:132:A:VAL:HG12	1:112:A:ILE:HG21	4	1.29
(1,1865)	1:132:A:VAL:HG12	1:112:A:ILE:HG22	4	1.29
(1,1865)	1:132:A:VAL:HG12	1:112:A:ILE:HG23	4	1.29
(1,1865)	1:132:A:VAL:HG13	1:112:A:ILE:HG21	4	1.29
(1,1865)	1:132:A:VAL:HG13	1:112:A:ILE:HG22	4	1.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1865)	1:132:A:VAL:HG13	1:112:A:ILE:HG23	4	1.29
(1,402)	1:194:A:ASN:HA	1:76:A:LYS:HE3	9	1.29
(1,92)	1:169:A:MET:HB2	1:50:A:VAL:HG11	20	1.29
(1,92)	1:169:A:MET:HB2	1:50:A:VAL:HG12	20	1.29
(1,92)	1:169:A:MET:HB2	1:50:A:VAL:HG13	20	1.29
(1,4383)	1:137:A:TYR:HB3	1:136:A:GLU:HB3	13	1.28
(1,4350)	1:21:A:THR:HG21	1:20:A:ASP:HB2	16	1.28
(1,4350)	1:21:A:THR:HG22	1:20:A:ASP:HB2	16	1.28
(1,4350)	1:21:A:THR:HG23	1:20:A:ASP:HB2	16	1.28
(1,3441)	1:79:A:GLN:HB2	1:99:A:GLN:HG3	8	1.28
(1,3114)	1:22:A:SER:H	1:24:A:TRP:HB2	9	1.28
(1,2479)	1:66:A:TYR:H	1:71:A:ARG:HB2	19	1.28
(1,1772)	1:157:A:PRO:HG3	1:123:A:ASN:HB2	7	1.28
(1,1544)	1:36:A:SER:H	1:26:A:VAL:HG11	13	1.28
(1,1544)	1:36:A:SER:H	1:26:A:VAL:HG12	13	1.28
(1,1544)	1:36:A:SER:H	1:26:A:VAL:HG13	13	1.28
(1,1489)	1:175:A:MET:H	1:109:A:ARG:HD3	4	1.28
(1,949)	1:151:A:CYS:H	1:149:A:HIS:HB2	5	1.28
(1,402)	1:194:A:ASN:HA	1:76:A:LYS:HE3	3	1.28
(1,211)	1:42:A:LYS:HB2	1:40:A:SER:HB3	3	1.28
(1,4355)	1:29:A:THR:HB	1:33:A:ILE:HG12	7	1.27
(1,4355)	1:29:A:THR:HB	1:33:A:ILE:HG12	9	1.27
(1,4355)	1:29:A:THR:HB	1:33:A:ILE:HG12	10	1.27
(1,4308)	1:70:A:ASP:H	1:71:A:ARG:HB2	13	1.27
(1,3937)	1:18:A:ASN:HB2	1:17:A:TYR:HB3	13	1.27
(1,2984)	1:166:A:LYS:HG2	1:51:A:GLU:HG2	11	1.27
(1,2866)	1:147:A:TYR:H	1:176:A:ARG:HB2	1	1.27
(1,2479)	1:66:A:TYR:H	1:71:A:ARG:HB2	5	1.27
(1,2479)	1:66:A:TYR:H	1:71:A:ARG:HB2	8	1.27
(1,1694)	1:137:A:TYR:HB3	1:136:A:GLU:HG3	10	1.27
(1,691)	1:71:A:ARG:HB2	1:68:A:THR:H	13	1.27
(1,2459)	1:134:A:PHE:H	1:112:A:ILE:HG12	4	1.26
(1,1772)	1:157:A:PRO:HG3	1:123:A:ASN:HB2	6	1.26
(1,1076)	1:146:A:GLY:H	1:109:A:ARG:HD3	11	1.26
(1,1072)	1:5:A:ALA:H	1:8:A:GLN:HG3	20	1.26
(1,4354)	1:167:A:LEU:H	1:156:A:SER:HB3	2	1.25
(1,4220)	1:77:A:SER:HB3	1:78:A:LEU:HG	4	1.25
(1,4220)	1:77:A:SER:HB3	1:78:A:LEU:HG	5	1.25
(1,3776)	1:114:A:LEU:HB3	1:93:A:ILE:HB	3	1.25
(1,2825)	1:68:A:THR:H	1:71:A:ARG:HB2	19	1.25
(1,2676)	1:206:A:HIS:HA	1:60:A:LYS:HD2	9	1.25
(1,2459)	1:134:A:PHE:H	1:112:A:ILE:HG12	12	1.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,593)	1:84:A:VAL:H	1:86:A:ARG:HG2	6	1.25
(1,3567)	1:35:A:VAL:HG21	1:37:A:SER:H	4	1.24
(1,3567)	1:35:A:VAL:HG22	1:37:A:SER:H	4	1.24
(1,3567)	1:35:A:VAL:HG23	1:37:A:SER:H	4	1.24
(1,3114)	1:22:A:SER:H	1:24:A:TRP:HB2	18	1.24
(1,2897)	1:203:A:ILE:HG21	1:206:A:HIS:HB3	11	1.24
(1,2897)	1:203:A:ILE:HG22	1:206:A:HIS:HB3	11	1.24
(1,2897)	1:203:A:ILE:HG23	1:206:A:HIS:HB3	11	1.24
(1,2796)	1:203:A:ILE:HD11	1:63:A:ASP:HB2	17	1.24
(1,2796)	1:203:A:ILE:HD12	1:63:A:ASP:HB2	17	1.24
(1,2796)	1:203:A:ILE:HD13	1:63:A:ASP:HB2	17	1.24
(1,2167)	1:60:A:LYS:HG3	1:61:A:LEU:HD21	4	1.24
(1,2167)	1:60:A:LYS:HG3	1:61:A:LEU:HD22	4	1.24
(1,2167)	1:60:A:LYS:HG3	1:61:A:LEU:HD23	4	1.24
(1,1932)	1:132:A:VAL:HG11	1:112:A:ILE:HG21	18	1.24
(1,1932)	1:132:A:VAL:HG11	1:112:A:ILE:HG22	18	1.24
(1,1932)	1:132:A:VAL:HG11	1:112:A:ILE:HG23	18	1.24
(1,1932)	1:132:A:VAL:HG12	1:112:A:ILE:HG21	18	1.24
(1,1932)	1:132:A:VAL:HG12	1:112:A:ILE:HG22	18	1.24
(1,1932)	1:132:A:VAL:HG12	1:112:A:ILE:HG23	18	1.24
(1,1932)	1:132:A:VAL:HG13	1:112:A:ILE:HG21	18	1.24
(1,1932)	1:132:A:VAL:HG13	1:112:A:ILE:HG22	18	1.24
(1,1932)	1:132:A:VAL:HG13	1:112:A:ILE:HG23	18	1.24
(1,1898)	1:24:A:TRP:H	1:38:A:LYS:HB2	19	1.24
(1,1171)	1:76:A:LYS:HD3	1:76:A:LYS:HA	11	1.24
(1,949)	1:151:A:CYS:H	1:149:A:HIS:HB2	16	1.24
(1,287)	1:26:A:VAL:H	1:25:A:LYS:HE3	18	1.24
(1,92)	1:169:A:MET:HB2	1:50:A:VAL:HG11	14	1.24
(1,92)	1:169:A:MET:HB2	1:50:A:VAL:HG12	14	1.24
(1,92)	1:169:A:MET:HB2	1:50:A:VAL:HG13	14	1.24
(1,3)	1:76:A:LYS:HE3	1:197:A:LEU:HD11	9	1.24
(1,3)	1:76:A:LYS:HE3	1:197:A:LEU:HD12	9	1.24
(1,3)	1:76:A:LYS:HE3	1:197:A:LEU:HD13	9	1.24
(1,4367)	1:68:A:THR:HG21	1:83:A:MET:HG3	11	1.23
(1,4367)	1:68:A:THR:HG22	1:83:A:MET:HG3	11	1.23
(1,4367)	1:68:A:THR:HG23	1:83:A:MET:HG3	11	1.23
(1,4355)	1:29:A:THR:HB	1:33:A:ILE:HG12	15	1.23
(1,4328)	1:126:A:ILE:H	1:155:A:CYS:HB2	20	1.23
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG21	11	1.23
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG22	11	1.23
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG23	11	1.23
(1,3320)	1:5:A:ALA:HB1	1:4:A:LYS:HB2	2	1.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3320)	1:5:A:ALA:HB2	1:4:A:LYS:HB2	2	1.23
(1,3320)	1:5:A:ALA:HB3	1:4:A:LYS:HB2	2	1.23
(1,2796)	1:203:A:ILE:HD11	1:63:A:ASP:HB2	8	1.23
(1,2796)	1:203:A:ILE:HD12	1:63:A:ASP:HB2	8	1.23
(1,2796)	1:203:A:ILE:HD13	1:63:A:ASP:HB2	8	1.23
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG11	9	1.23
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG12	9	1.23
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG13	9	1.23
(1,1988)	1:83:A:MET:HG3	1:68:A:THR:HG21	1	1.23
(1,1988)	1:83:A:MET:HG3	1:68:A:THR:HG22	1	1.23
(1,1988)	1:83:A:MET:HG3	1:68:A:THR:HG23	1	1.23
(1,731)	1:46:A:ASN:HB3	1:47:A:LEU:HB3	16	1.23
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG11	10	1.23
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG12	10	1.23
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG13	10	1.23
(1,4355)	1:29:A:THR:HB	1:33:A:ILE:HG12	14	1.22
(1,4328)	1:126:A:ILE:H	1:155:A:CYS:HB2	13	1.22
(1,3776)	1:114:A:LEU:HB3	1:93:A:ILE:HB	8	1.22
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG21	4	1.22
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG22	4	1.22
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG23	4	1.22
(1,3028)	1:96:A:THR:HG21	1:72:A:ILE:HG12	5	1.22
(1,3028)	1:96:A:THR:HG22	1:72:A:ILE:HG12	5	1.22
(1,3028)	1:96:A:THR:HG23	1:72:A:ILE:HG12	5	1.22
(1,2984)	1:166:A:LYS:HG2	1:51:A:GLU:HG2	15	1.22
(1,2897)	1:203:A:ILE:HG21	1:206:A:HIS:HB3	9	1.22
(1,2897)	1:203:A:ILE:HG22	1:206:A:HIS:HB3	9	1.22
(1,2897)	1:203:A:ILE:HG23	1:206:A:HIS:HB3	9	1.22
(1,2479)	1:66:A:TYR:H	1:71:A:ARG:HB2	11	1.22
(1,1772)	1:157:A:PRO:HG3	1:123:A:ASN:HB2	1	1.22
(1,1343)	1:129:A:SER:HB2	1:127:A:ILE:HG13	8	1.22
(1,1171)	1:76:A:LYS:HD3	1:76:A:LYS:HA	3	1.22
(1,691)	1:71:A:ARG:HB2	1:68:A:THR:H	20	1.22
(1,402)	1:194:A:ASN:HA	1:76:A:LYS:HE3	10	1.22
(1,4355)	1:29:A:THR:HB	1:33:A:ILE:HG12	8	1.21
(1,4350)	1:21:A:THR:HG21	1:20:A:ASP:HB2	15	1.21
(1,4350)	1:21:A:THR:HG22	1:20:A:ASP:HB2	15	1.21
(1,4350)	1:21:A:THR:HG23	1:20:A:ASP:HB2	15	1.21
(1,3567)	1:35:A:VAL:HG21	1:37:A:SER:H	20	1.21
(1,3567)	1:35:A:VAL:HG22	1:37:A:SER:H	20	1.21
(1,3567)	1:35:A:VAL:HG23	1:37:A:SER:H	20	1.21
(1,2897)	1:203:A:ILE:HG21	1:206:A:HIS:HB3	1	1.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2897)	1:203:A:ILE:HG22	1:206:A:HIS:HB3	1	1.21
(1,2897)	1:203:A:ILE:HG23	1:206:A:HIS:HB3	1	1.21
(1,2479)	1:66:A:TYR:H	1:71:A:ARG:HB2	17	1.21
(1,2459)	1:134:A:PHE:H	1:112:A:ILE:HG12	6	1.21
(1,2427)	1:129:A:SER:HB3	1:152:A:GLY:HA3	4	1.21
(1,1994)	1:176:A:ARG:H	1:109:A:ARG:HD3	18	1.21
(1,1772)	1:157:A:PRO:HG3	1:123:A:ASN:HB2	8	1.21
(1,1772)	1:157:A:PRO:HG3	1:123:A:ASN:HB2	13	1.21
(1,1076)	1:146:A:GLY:H	1:109:A:ARG:HD3	4	1.21
(1,691)	1:71:A:ARG:HB2	1:68:A:THR:H	8	1.21
(1,676)	1:130:A:LYS:HD2	1:10:A:THR:HG21	19	1.21
(1,676)	1:130:A:LYS:HD2	1:10:A:THR:HG22	19	1.21
(1,676)	1:130:A:LYS:HD2	1:10:A:THR:HG23	19	1.21
(1,3776)	1:114:A:LEU:HB3	1:93:A:ILE:HB	5	1.2
(1,3567)	1:35:A:VAL:HG21	1:37:A:SER:H	9	1.2
(1,3567)	1:35:A:VAL:HG22	1:37:A:SER:H	9	1.2
(1,3567)	1:35:A:VAL:HG23	1:37:A:SER:H	9	1.2
(1,3567)	1:35:A:VAL:HG21	1:37:A:SER:H	13	1.2
(1,3567)	1:35:A:VAL:HG22	1:37:A:SER:H	13	1.2
(1,3567)	1:35:A:VAL:HG23	1:37:A:SER:H	13	1.2
(1,3429)	1:130:A:LYS:HE2	1:10:A:THR:HG21	7	1.2
(1,3429)	1:130:A:LYS:HE2	1:10:A:THR:HG22	7	1.2
(1,3429)	1:130:A:LYS:HE2	1:10:A:THR:HG23	7	1.2
(1,3028)	1:96:A:THR:HG21	1:72:A:ILE:HG12	7	1.2
(1,3028)	1:96:A:THR:HG22	1:72:A:ILE:HG12	7	1.2
(1,3028)	1:96:A:THR:HG23	1:72:A:ILE:HG12	7	1.2
(1,2459)	1:134:A:PHE:H	1:112:A:ILE:HG12	7	1.2
(1,741)	1:147:A:TYR:H	1:144:A:ILE:HG12	15	1.2
(1,617)	1:169:A:MET:HA	1:50:A:VAL:HG11	16	1.2
(1,617)	1:169:A:MET:HA	1:50:A:VAL:HG12	16	1.2
(1,617)	1:169:A:MET:HA	1:50:A:VAL:HG13	16	1.2
(1,320)	1:25:A:LYS:H	1:25:A:LYS:HE3	13	1.2
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG11	7	1.2
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG12	7	1.2
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG13	7	1.2
(1,3)	1:76:A:LYS:HE3	1:197:A:LEU:HD11	3	1.2
(1,3)	1:76:A:LYS:HE3	1:197:A:LEU:HD12	3	1.2
(1,3)	1:76:A:LYS:HE3	1:197:A:LEU:HD13	3	1.2
(1,4355)	1:29:A:THR:HB	1:33:A:ILE:HG12	2	1.19
(1,4086)	1:54:A:ILE:H	1:200:A:LYS:HE3	10	1.19
(1,3776)	1:114:A:LEU:HB3	1:93:A:ILE:HB	1	1.19
(1,3567)	1:35:A:VAL:HG21	1:37:A:SER:H	15	1.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3567)	1:35:A:VAL:HG22	1:37:A:SER:H	15	1.19
(1,3567)	1:35:A:VAL:HG23	1:37:A:SER:H	15	1.19
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG21	6	1.19
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG22	6	1.19
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG23	6	1.19
(1,2564)	1:20:A:ASP:H	1:19:A:ARG:HG2	11	1.19
(1,1171)	1:76:A:LYS:HD3	1:76:A:LYS:HA	10	1.19
(1,1171)	1:76:A:LYS:HD3	1:76:A:LYS:HA	12	1.19
(1,575)	1:166:A:LYS:HD3	1:51:A:GLU:HG3	17	1.19
(1,359)	1:34:A:THR:HB	1:26:A:VAL:HG11	11	1.19
(1,359)	1:34:A:THR:HB	1:26:A:VAL:HG12	11	1.19
(1,359)	1:34:A:THR:HB	1:26:A:VAL:HG13	11	1.19
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG11	9	1.19
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG12	9	1.19
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG13	9	1.19
(1,4383)	1:137:A:TYR:HB3	1:136:A:GLU:HB3	2	1.18
(1,4376)	1:200:A:LYS:HD3	1:54:A:ILE:H	1	1.18
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG11	2	1.18
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG12	2	1.18
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG13	2	1.18
(1,3776)	1:114:A:LEU:HB3	1:93:A:ILE:HB	9	1.18
(1,3379)	1:170:A:PHE:H	1:49:A:ARG:HG3	16	1.18
(1,3320)	1:5:A:ALA:HB1	1:4:A:LYS:HB2	15	1.18
(1,3320)	1:5:A:ALA:HB2	1:4:A:LYS:HB2	15	1.18
(1,3320)	1:5:A:ALA:HB3	1:4:A:LYS:HB2	15	1.18
(1,3114)	1:22:A:SER:H	1:24:A:TRP:HB2	7	1.18
(1,2984)	1:166:A:LYS:HG2	1:51:A:GLU:HG2	19	1.18
(1,2897)	1:203:A:ILE:HG21	1:206:A:HIS:HB3	5	1.18
(1,2897)	1:203:A:ILE:HG22	1:206:A:HIS:HB3	5	1.18
(1,2897)	1:203:A:ILE:HG23	1:206:A:HIS:HB3	5	1.18
(1,2459)	1:134:A:PHE:H	1:112:A:ILE:HG12	17	1.18
(1,2439)	1:202:A:GLY:H	1:198:A:ASN:HB3	5	1.18
(1,2439)	1:202:A:GLY:H	1:198:A:ASN:HB3	15	1.18
(1,532)	1:194:A:ASN:HB3	1:76:A:LYS:HG3	5	1.18
(1,320)	1:25:A:LYS:H	1:25:A:LYS:HE3	9	1.18
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG11	15	1.18
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG12	15	1.18
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG13	15	1.18
(1,3)	1:76:A:LYS:HE3	1:197:A:LEU:HD11	12	1.18
(1,3)	1:76:A:LYS:HE3	1:197:A:LEU:HD12	12	1.18
(1,3)	1:76:A:LYS:HE3	1:197:A:LEU:HD13	12	1.18
(1,4355)	1:29:A:THR:HB	1:33:A:ILE:HG12	5	1.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4308)	1:70:A:ASP:H	1:71:A:ARG:HB2	20	1.17
(1,3937)	1:18:A:ASN:HB2	1:17:A:TYR:HB3	17	1.17
(1,3719)	1:67:A:GLN:HA	1:71:A:ARG:HG3	11	1.17
(1,2825)	1:68:A:THR:H	1:71:A:ARG:HB2	13	1.17
(1,2252)	1:6:A:ILE:H	1:8:A:GLN:HG3	9	1.17
(1,2206)	1:168:A:VAL:HG11	1:51:A:GLU:HG2	12	1.17
(1,2206)	1:168:A:VAL:HG12	1:51:A:GLU:HG2	12	1.17
(1,2206)	1:168:A:VAL:HG13	1:51:A:GLU:HG2	12	1.17
(1,2014)	1:18:A:ASN:HB2	1:15:A:LEU:HB2	9	1.17
(1,1923)	1:71:A:ARG:HB3	1:78:A:LEU:HG	9	1.17
(1,1489)	1:175:A:MET:H	1:109:A:ARG:HD3	7	1.17
(1,1343)	1:129:A:SER:HB2	1:127:A:ILE:HG13	2	1.17
(1,4367)	1:68:A:THR:HG21	1:83:A:MET:HG3	7	1.16
(1,4367)	1:68:A:THR:HG22	1:83:A:MET:HG3	7	1.16
(1,4367)	1:68:A:THR:HG23	1:83:A:MET:HG3	7	1.16
(1,4220)	1:77:A:SER:HB3	1:78:A:LEU:HG	14	1.16
(1,3512)	1:124:A:MET:H	1:122:A:GLY:HA3	14	1.16
(1,3320)	1:5:A:ALA:HB1	1:4:A:LYS:HB2	13	1.16
(1,3320)	1:5:A:ALA:HB2	1:4:A:LYS:HB2	13	1.16
(1,3320)	1:5:A:ALA:HB3	1:4:A:LYS:HB2	13	1.16
(1,1694)	1:137:A:TYR:HB3	1:136:A:GLU:HG3	2	1.16
(1,741)	1:147:A:TYR:H	1:144:A:ILE:HG12	7	1.16
(1,691)	1:71:A:ARG:HB2	1:68:A:THR:H	4	1.16
(1,4220)	1:77:A:SER:HB3	1:78:A:LEU:HG	13	1.15
(1,3900)	1:102:A:ALA:HA	1:103:A:VAL:HG21	17	1.15
(1,3900)	1:102:A:ALA:HA	1:103:A:VAL:HG22	17	1.15
(1,3900)	1:102:A:ALA:HA	1:103:A:VAL:HG23	17	1.15
(1,3896)	1:130:A:LYS:H	1:148:A:ASN:HB3	10	1.15
(1,3776)	1:114:A:LEU:HB3	1:93:A:ILE:HB	13	1.15
(1,3320)	1:5:A:ALA:HB1	1:4:A:LYS:HB2	8	1.15
(1,3320)	1:5:A:ALA:HB2	1:4:A:LYS:HB2	8	1.15
(1,3320)	1:5:A:ALA:HB3	1:4:A:LYS:HB2	8	1.15
(1,3028)	1:96:A:THR:HG21	1:72:A:ILE:HG12	8	1.15
(1,3028)	1:96:A:THR:HG22	1:72:A:ILE:HG12	8	1.15
(1,3028)	1:96:A:THR:HG23	1:72:A:ILE:HG12	8	1.15
(1,2984)	1:166:A:LYS:HG2	1:51:A:GLU:HG2	10	1.15
(1,2459)	1:134:A:PHE:H	1:112:A:ILE:HG12	1	1.15
(1,2459)	1:134:A:PHE:H	1:112:A:ILE:HG12	15	1.15
(1,1845)	1:47:A:LEU:H	1:40:A:SER:HB2	6	1.15
(1,1489)	1:175:A:MET:H	1:109:A:ARG:HD3	10	1.15
(1,1171)	1:76:A:LYS:HD3	1:76:A:LYS:HA	9	1.15
(1,1165)	1:169:A:MET:HA	1:49:A:ARG:HG3	16	1.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4308)	1:70:A:ASP:H	1:71:A:ARG:HB2	9	1.14
(1,3937)	1:18:A:ASN:HB2	1:17:A:TYR:HB3	6	1.14
(1,3937)	1:18:A:ASN:HB2	1:17:A:TYR:HB3	8	1.14
(1,3896)	1:130:A:LYS:H	1:148:A:ASN:HB3	1	1.14
(1,3776)	1:114:A:LEU:HB3	1:93:A:ILE:HB	2	1.14
(1,3776)	1:114:A:LEU:HB3	1:93:A:ILE:HB	15	1.14
(1,3512)	1:124:A:MET:H	1:122:A:GLY:HA3	10	1.14
(1,3512)	1:124:A:MET:H	1:122:A:GLY:HA3	18	1.14
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG21	1	1.14
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG22	1	1.14
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG23	1	1.14
(1,2439)	1:202:A:GLY:H	1:198:A:ASN:HB3	1	1.14
(1,1994)	1:176:A:ARG:H	1:109:A:ARG:HD3	4	1.14
(1,1923)	1:71:A:ARG:HB3	1:78:A:LEU:HG	11	1.14
(1,1923)	1:71:A:ARG:HB3	1:78:A:LEU:HG	17	1.14
(1,1923)	1:71:A:ARG:HB3	1:78:A:LEU:HG	19	1.14
(1,1405)	1:42:A:LYS:HB3	1:43:A:PHE:HB2	12	1.14
(1,379)	1:69:A:GLY:HA2	1:72:A:ILE:H	6	1.14
(1,3)	1:76:A:LYS:HE3	1:197:A:LEU:HD11	10	1.14
(1,3)	1:76:A:LYS:HE3	1:197:A:LEU:HD12	10	1.14
(1,3)	1:76:A:LYS:HE3	1:197:A:LEU:HD13	10	1.14
(1,4343)	1:193:A:VAL:HG11	1:194:A:ASN:HB2	15	1.13
(1,4343)	1:193:A:VAL:HG12	1:194:A:ASN:HB2	15	1.13
(1,4343)	1:193:A:VAL:HG13	1:194:A:ASN:HB2	15	1.13
(1,3776)	1:114:A:LEU:HB3	1:93:A:ILE:HB	6	1.13
(1,3512)	1:124:A:MET:H	1:122:A:GLY:HA3	19	1.13
(1,3034)	1:144:A:ILE:HG12	1:109:A:ARG:HG2	7	1.13
(1,3028)	1:96:A:THR:HG21	1:72:A:ILE:HG12	3	1.13
(1,3028)	1:96:A:THR:HG22	1:72:A:ILE:HG12	3	1.13
(1,3028)	1:96:A:THR:HG23	1:72:A:ILE:HG12	3	1.13
(1,3028)	1:96:A:THR:HG21	1:72:A:ILE:HG12	14	1.13
(1,3028)	1:96:A:THR:HG22	1:72:A:ILE:HG12	14	1.13
(1,3028)	1:96:A:THR:HG23	1:72:A:ILE:HG12	14	1.13
(1,2984)	1:166:A:LYS:HG2	1:51:A:GLU:HG2	16	1.13
(1,1988)	1:83:A:MET:HG3	1:68:A:THR:HG21	11	1.13
(1,1988)	1:83:A:MET:HG3	1:68:A:THR:HG22	11	1.13
(1,1988)	1:83:A:MET:HG3	1:68:A:THR:HG23	11	1.13
(1,731)	1:46:A:ASN:HB3	1:47:A:LEU:HB3	19	1.13
(1,527)	1:2:A:ASP:H	1:1:A:MET:HG3	15	1.13
(1,4308)	1:70:A:ASP:H	1:71:A:ARG:HB2	17	1.12
(1,4107)	1:79:A:GLN:H	1:72:A:ILE:HG12	6	1.12
(1,3776)	1:114:A:LEU:HB3	1:93:A:ILE:HB	18	1.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3512)	1:124:A:MET:H	1:122:A:GLY:HA3	15	1.12
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG21	19	1.12
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG22	19	1.12
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG23	19	1.12
(1,2825)	1:68:A:THR:H	1:71:A:ARG:HB2	20	1.12
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG11	8	1.12
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG12	8	1.12
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG13	8	1.12
(1,1489)	1:175:A:MET:H	1:109:A:ARG:HD3	8	1.12
(1,1416)	1:179:A:LEU:HA	1:184:A:ILE:HG12	16	1.12
(1,927)	1:35:A:VAL:HB	1:27:A:VAL:HG11	16	1.12
(1,927)	1:35:A:VAL:HB	1:27:A:VAL:HG12	16	1.12
(1,927)	1:35:A:VAL:HB	1:27:A:VAL:HG13	16	1.12
(1,593)	1:84:A:VAL:H	1:86:A:ARG:HG2	16	1.12
(1,402)	1:194:A:ASN:HA	1:76:A:LYS:HE3	11	1.12
(1,102)	1:73:A:THR:HB	1:72:A:ILE:HG13	5	1.12
(1,4367)	1:68:A:THR:HG21	1:83:A:MET:HG3	8	1.11
(1,4367)	1:68:A:THR:HG22	1:83:A:MET:HG3	8	1.11
(1,4367)	1:68:A:THR:HG23	1:83:A:MET:HG3	8	1.11
(1,4308)	1:70:A:ASP:H	1:71:A:ARG:HB2	15	1.11
(1,3776)	1:114:A:LEU:HB3	1:93:A:ILE:HB	11	1.11
(1,3776)	1:114:A:LEU:HB3	1:93:A:ILE:HB	17	1.11
(1,3512)	1:124:A:MET:H	1:122:A:GLY:HA3	2	1.11
(1,3512)	1:124:A:MET:H	1:122:A:GLY:HA3	17	1.11
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG21	2	1.11
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG22	2	1.11
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG23	2	1.11
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG21	5	1.11
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG22	5	1.11
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG23	5	1.11
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG21	7	1.11
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG22	7	1.11
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG23	7	1.11
(1,3320)	1:5:A:ALA:HB1	1:4:A:LYS:HB2	20	1.11
(1,3320)	1:5:A:ALA:HB2	1:4:A:LYS:HB2	20	1.11
(1,3320)	1:5:A:ALA:HB3	1:4:A:LYS:HB2	20	1.11
(1,2825)	1:68:A:THR:H	1:71:A:ARG:HB2	8	1.11
(1,2747)	1:91:A:THR:HG21	1:4:A:LYS:HD3	13	1.11
(1,2747)	1:91:A:THR:HG22	1:4:A:LYS:HD3	13	1.11
(1,2747)	1:91:A:THR:HG23	1:4:A:LYS:HD3	13	1.11
(1,2685)	1:177:A:GLY:H	1:176:A:ARG:HG3	10	1.11
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG11	15	1.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG12	15	1.11
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG13	15	1.11
(1,1994)	1:176:A:ARG:H	1:109:A:ARG:HD3	10	1.11
(1,1589)	1:190:A:SER:HB3	1:102:A:ALA:HB1	11	1.11
(1,1589)	1:190:A:SER:HB3	1:102:A:ALA:HB2	11	1.11
(1,1589)	1:190:A:SER:HB3	1:102:A:ALA:HB3	11	1.11
(1,1416)	1:179:A:LEU:HA	1:184:A:ILE:HG12	13	1.11
(1,1416)	1:179:A:LEU:HA	1:184:A:ILE:HG12	14	1.11
(1,359)	1:34:A:THR:HB	1:26:A:VAL:HG11	12	1.11
(1,359)	1:34:A:THR:HB	1:26:A:VAL:HG12	12	1.11
(1,359)	1:34:A:THR:HB	1:26:A:VAL:HG13	12	1.11
(1,320)	1:25:A:LYS:H	1:25:A:LYS:HE3	2	1.11
(1,4343)	1:193:A:VAL:HG11	1:194:A:ASN:HB2	5	1.1
(1,4343)	1:193:A:VAL:HG12	1:194:A:ASN:HB2	5	1.1
(1,4343)	1:193:A:VAL:HG13	1:194:A:ASN:HB2	5	1.1
(1,3512)	1:124:A:MET:H	1:122:A:GLY:HA3	3	1.1
(1,3034)	1:144:A:ILE:HG12	1:109:A:ARG:HG2	8	1.1
(1,3028)	1:96:A:THR:HG21	1:72:A:ILE:HG12	11	1.1
(1,3028)	1:96:A:THR:HG22	1:72:A:ILE:HG12	11	1.1
(1,3028)	1:96:A:THR:HG23	1:72:A:ILE:HG12	11	1.1
(1,2984)	1:166:A:LYS:HG2	1:51:A:GLU:HG2	4	1.1
(1,1923)	1:71:A:ARG:HB3	1:78:A:LEU:HG	12	1.1
(1,1658)	1:130:A:LYS:HE3	1:6:A:ILE:HG21	18	1.1
(1,1658)	1:130:A:LYS:HE3	1:6:A:ILE:HG22	18	1.1
(1,1658)	1:130:A:LYS:HE3	1:6:A:ILE:HG23	18	1.1
(1,949)	1:151:A:CYS:H	1:149:A:HIS:HB2	9	1.1
(1,731)	1:46:A:ASN:HB3	1:47:A:LEU:HB3	12	1.1
(1,691)	1:71:A:ARG:HB2	1:68:A:THR:H	14	1.1
(1,617)	1:169:A:MET:HA	1:50:A:VAL:HG11	5	1.1
(1,617)	1:169:A:MET:HA	1:50:A:VAL:HG12	5	1.1
(1,617)	1:169:A:MET:HA	1:50:A:VAL:HG13	5	1.1
(1,4355)	1:29:A:THR:HB	1:33:A:ILE:HG12	3	1.09
(1,4355)	1:29:A:THR:HB	1:33:A:ILE:HG12	16	1.09
(1,4308)	1:70:A:ASP:H	1:71:A:ARG:HB2	4	1.09
(1,4308)	1:70:A:ASP:H	1:71:A:ARG:HB2	5	1.09
(1,3896)	1:130:A:LYS:H	1:148:A:ASN:HB3	6	1.09
(1,3512)	1:124:A:MET:H	1:122:A:GLY:HA3	4	1.09
(1,3512)	1:124:A:MET:H	1:122:A:GLY:HA3	12	1.09
(1,3064)	1:155:A:CYS:H	1:126:A:ILE:HG12	13	1.09
(1,3034)	1:144:A:ILE:HG12	1:109:A:ARG:HG2	4	1.09
(1,3028)	1:96:A:THR:HG21	1:72:A:ILE:HG12	12	1.09
(1,3028)	1:96:A:THR:HG22	1:72:A:ILE:HG12	12	1.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3028)	1:96:A:THR:HG23	1:72:A:ILE:HG12	12	1.09
(1,3028)	1:96:A:THR:HG21	1:72:A:ILE:HG12	16	1.09
(1,3028)	1:96:A:THR:HG22	1:72:A:ILE:HG12	16	1.09
(1,3028)	1:96:A:THR:HG23	1:72:A:ILE:HG12	16	1.09
(1,2984)	1:166:A:LYS:HG2	1:51:A:GLU:HG2	18	1.09
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG11	2	1.09
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG12	2	1.09
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG13	2	1.09
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG11	19	1.09
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG12	19	1.09
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG13	19	1.09
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG11	10	1.09
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG12	10	1.09
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG13	10	1.09
(1,1994)	1:176:A:ARG:H	1:109:A:ARG:HD3	15	1.09
(1,1405)	1:42:A:LYS:HB3	1:43:A:PHE:HB2	19	1.09
(1,1166)	1:105:A:SER:HB2	1:180:A:SER:H	15	1.09
(1,527)	1:2:A:ASP:H	1:1:A:MET:HG3	18	1.09
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG11	1	1.09
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG12	1	1.09
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG13	1	1.09
(1,4355)	1:29:A:THR:HB	1:33:A:ILE:HG12	1	1.08
(1,3718)	1:132:A:VAL:HG11	1:84:A:VAL:HG21	12	1.08
(1,3718)	1:132:A:VAL:HG11	1:84:A:VAL:HG22	12	1.08
(1,3718)	1:132:A:VAL:HG11	1:84:A:VAL:HG23	12	1.08
(1,3718)	1:132:A:VAL:HG12	1:84:A:VAL:HG21	12	1.08
(1,3718)	1:132:A:VAL:HG12	1:84:A:VAL:HG22	12	1.08
(1,3718)	1:132:A:VAL:HG12	1:84:A:VAL:HG23	12	1.08
(1,3718)	1:132:A:VAL:HG13	1:84:A:VAL:HG21	12	1.08
(1,3718)	1:132:A:VAL:HG13	1:84:A:VAL:HG22	12	1.08
(1,3718)	1:132:A:VAL:HG13	1:84:A:VAL:HG23	12	1.08
(1,3655)	1:69:A:GLY:H	1:67:A:GLN:HB3	13	1.08
(1,3525)	1:68:A:THR:HG21	1:69:A:GLY:HA3	6	1.08
(1,3525)	1:68:A:THR:HG22	1:69:A:GLY:HA3	6	1.08
(1,3525)	1:68:A:THR:HG23	1:69:A:GLY:HA3	6	1.08
(1,3512)	1:124:A:MET:H	1:122:A:GLY:HA3	9	1.08
(1,3512)	1:124:A:MET:H	1:122:A:GLY:HA3	20	1.08
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG21	15	1.08
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG22	15	1.08
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG23	15	1.08
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG21	18	1.08
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG22	18	1.08

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG23	18	1.08
(1,3113)	1:168:A:VAL:H	1:166:A:LYS:HD3	17	1.08
(1,3028)	1:96:A:THR:HG21	1:72:A:ILE:HG12	4	1.08
(1,3028)	1:96:A:THR:HG22	1:72:A:ILE:HG12	4	1.08
(1,3028)	1:96:A:THR:HG23	1:72:A:ILE:HG12	4	1.08
(1,2897)	1:203:A:ILE:HG21	1:206:A:HIS:HB3	2	1.08
(1,2897)	1:203:A:ILE:HG22	1:206:A:HIS:HB3	2	1.08
(1,2897)	1:203:A:ILE:HG23	1:206:A:HIS:HB3	2	1.08
(1,2459)	1:134:A:PHE:H	1:112:A:ILE:HG12	3	1.08
(1,1589)	1:190:A:SER:HB3	1:102:A:ALA:HB1	15	1.08
(1,1589)	1:190:A:SER:HB3	1:102:A:ALA:HB2	15	1.08
(1,1589)	1:190:A:SER:HB3	1:102:A:ALA:HB3	15	1.08
(1,1416)	1:179:A:LEU:HA	1:184:A:ILE:HG12	5	1.08
(1,1416)	1:179:A:LEU:HA	1:184:A:ILE:HG12	6	1.08
(1,1207)	1:90:A:ASP:H	1:4:A:LYS:HE3	5	1.08
(1,1066)	1:144:A:ILE:HA	1:109:A:ARG:HG2	7	1.08
(1,736)	1:61:A:LEU:HG	1:56:A:GLU:HG2	14	1.08
(1,19)	1:106:A:ILE:HG21	1:109:A:ARG:HD2	19	1.08
(1,19)	1:106:A:ILE:HG22	1:109:A:ARG:HD2	19	1.08
(1,19)	1:106:A:ILE:HG23	1:109:A:ARG:HD2	19	1.08
(1,4308)	1:70:A:ASP:H	1:71:A:ARG:HB2	3	1.07
(1,4220)	1:77:A:SER:HB3	1:78:A:LEU:HG	1	1.07
(1,3937)	1:18:A:ASN:HB2	1:17:A:TYR:HB3	15	1.07
(1,3719)	1:67:A:GLN:HA	1:71:A:ARG:HG3	4	1.07
(1,3064)	1:155:A:CYS:H	1:126:A:ILE:HG12	16	1.07
(1,2984)	1:166:A:LYS:HG2	1:51:A:GLU:HG2	14	1.07
(1,2564)	1:20:A:ASP:H	1:19:A:ARG:HG2	3	1.07
(1,2366)	1:22:A:SER:H	1:38:A:LYS:HD2	11	1.07
(1,1874)	1:153:A:PHE:HB2	1:65:A:LEU:HD11	3	1.07
(1,1874)	1:153:A:PHE:HB2	1:65:A:LEU:HD12	3	1.07
(1,1874)	1:153:A:PHE:HB2	1:65:A:LEU:HD13	3	1.07
(1,1865)	1:132:A:VAL:HG11	1:112:A:ILE:HG21	12	1.07
(1,1865)	1:132:A:VAL:HG11	1:112:A:ILE:HG22	12	1.07
(1,1865)	1:132:A:VAL:HG11	1:112:A:ILE:HG23	12	1.07
(1,1865)	1:132:A:VAL:HG12	1:112:A:ILE:HG21	12	1.07
(1,1865)	1:132:A:VAL:HG12	1:112:A:ILE:HG22	12	1.07
(1,1865)	1:132:A:VAL:HG12	1:112:A:ILE:HG23	12	1.07
(1,1865)	1:132:A:VAL:HG13	1:112:A:ILE:HG21	12	1.07
(1,1865)	1:132:A:VAL:HG13	1:112:A:ILE:HG22	12	1.07
(1,1865)	1:132:A:VAL:HG13	1:112:A:ILE:HG23	12	1.07
(1,1589)	1:190:A:SER:HB3	1:102:A:ALA:HB1	19	1.07
(1,1589)	1:190:A:SER:HB3	1:102:A:ALA:HB2	19	1.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1589)	1:190:A:SER:HB3	1:102:A:ALA:HB3	19	1.07
(1,1489)	1:175:A:MET:H	1:109:A:ARG:HD3	6	1.07
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD21	5	1.07
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD22	5	1.07
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD23	5	1.07
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG11	14	1.07
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG12	14	1.07
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG13	14	1.07
(1,42)	1:46:A:ASN:HB2	1:45:A:GLY:H	11	1.07
(1,4220)	1:77:A:SER:HB3	1:78:A:LEU:HG	18	1.06
(1,3937)	1:18:A:ASN:HB2	1:17:A:TYR:HB3	2	1.06
(1,3778)	1:76:A:LYS:HE3	1:76:A:LYS:HG3	2	1.06
(1,3768)	1:183:A:ILE:H	1:185:A:GLU:HG2	16	1.06
(1,3718)	1:132:A:VAL:HG11	1:84:A:VAL:HG21	18	1.06
(1,3718)	1:132:A:VAL:HG11	1:84:A:VAL:HG22	18	1.06
(1,3718)	1:132:A:VAL:HG11	1:84:A:VAL:HG23	18	1.06
(1,3718)	1:132:A:VAL:HG12	1:84:A:VAL:HG21	18	1.06
(1,3718)	1:132:A:VAL:HG12	1:84:A:VAL:HG22	18	1.06
(1,3718)	1:132:A:VAL:HG12	1:84:A:VAL:HG23	18	1.06
(1,3718)	1:132:A:VAL:HG13	1:84:A:VAL:HG21	18	1.06
(1,3718)	1:132:A:VAL:HG13	1:84:A:VAL:HG22	18	1.06
(1,3718)	1:132:A:VAL:HG13	1:84:A:VAL:HG23	18	1.06
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG21	13	1.06
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG22	13	1.06
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG23	13	1.06
(1,2825)	1:68:A:THR:H	1:71:A:ARG:HB2	4	1.06
(1,2206)	1:168:A:VAL:HG11	1:51:A:GLU:HG2	13	1.06
(1,2206)	1:168:A:VAL:HG12	1:51:A:GLU:HG2	13	1.06
(1,2206)	1:168:A:VAL:HG13	1:51:A:GLU:HG2	13	1.06
(1,1988)	1:83:A:MET:HG3	1:68:A:THR:HG21	7	1.06
(1,1988)	1:83:A:MET:HG3	1:68:A:THR:HG22	7	1.06
(1,1988)	1:83:A:MET:HG3	1:68:A:THR:HG23	7	1.06
(1,1416)	1:179:A:LEU:HA	1:184:A:ILE:HG12	8	1.06
(1,1416)	1:179:A:LEU:HA	1:184:A:ILE:HG12	11	1.06
(1,1252)	1:130:A:LYS:HB3	1:7:A:ALA:HA	3	1.06
(1,741)	1:147:A:TYR:H	1:144:A:ILE:HG12	5	1.06
(1,375)	1:112:A:ILE:HG21	1:95:A:HIS:HB3	18	1.06
(1,375)	1:112:A:ILE:HG22	1:95:A:HIS:HB3	18	1.06
(1,375)	1:112:A:ILE:HG23	1:95:A:HIS:HB3	18	1.06
(1,211)	1:42:A:LYS:HB2	1:40:A:SER:HB3	14	1.06
(1,42)	1:46:A:ASN:HB2	1:45:A:GLY:H	19	1.06
(1,4308)	1:70:A:ASP:H	1:71:A:ARG:HB2	2	1.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3900)	1:102:A:ALA:HA	1:103:A:VAL:HG21	16	1.05
(1,3900)	1:102:A:ALA:HA	1:103:A:VAL:HG22	16	1.05
(1,3900)	1:102:A:ALA:HA	1:103:A:VAL:HG23	16	1.05
(1,3525)	1:68:A:THR:HG21	1:69:A:GLY:HA3	7	1.05
(1,3525)	1:68:A:THR:HG22	1:69:A:GLY:HA3	7	1.05
(1,3525)	1:68:A:THR:HG23	1:69:A:GLY:HA3	7	1.05
(1,3512)	1:124:A:MET:H	1:122:A:GLY:HA3	1	1.05
(1,3512)	1:124:A:MET:H	1:122:A:GLY:HA3	5	1.05
(1,3512)	1:124:A:MET:H	1:122:A:GLY:HA3	6	1.05
(1,3512)	1:124:A:MET:H	1:122:A:GLY:HA3	8	1.05
(1,3512)	1:124:A:MET:H	1:122:A:GLY:HA3	13	1.05
(1,3473)	1:1:A:MET:HA	1:4:A:LYS:HB3	9	1.05
(1,3320)	1:5:A:ALA:HB1	1:4:A:LYS:HB2	12	1.05
(1,3320)	1:5:A:ALA:HB2	1:4:A:LYS:HB2	12	1.05
(1,3320)	1:5:A:ALA:HB3	1:4:A:LYS:HB2	12	1.05
(1,3320)	1:5:A:ALA:HB1	1:4:A:LYS:HB2	18	1.05
(1,3320)	1:5:A:ALA:HB2	1:4:A:LYS:HB2	18	1.05
(1,3320)	1:5:A:ALA:HB3	1:4:A:LYS:HB2	18	1.05
(1,3114)	1:22:A:SER:H	1:24:A:TRP:HB2	20	1.05
(1,2961)	1:156:A:SER:H	1:166:A:LYS:HD2	11	1.05
(1,2564)	1:20:A:ASP:H	1:19:A:ARG:HG2	15	1.05
(1,691)	1:71:A:ARG:HB2	1:68:A:THR:H	17	1.05
(1,258)	1:42:A:LYS:H	1:42:A:LYS:HD2	3	1.05
(1,4355)	1:29:A:THR:HB	1:33:A:ILE:HG12	20	1.04
(1,4015)	1:27:A:VAL:H	1:36:A:SER:HB2	2	1.04
(1,4015)	1:27:A:VAL:H	1:36:A:SER:HB2	8	1.04
(1,3937)	1:18:A:ASN:HB2	1:17:A:TYR:HB3	9	1.04
(1,3900)	1:102:A:ALA:HA	1:103:A:VAL:HG21	10	1.04
(1,3900)	1:102:A:ALA:HA	1:103:A:VAL:HG22	10	1.04
(1,3900)	1:102:A:ALA:HA	1:103:A:VAL:HG23	10	1.04
(1,3512)	1:124:A:MET:H	1:122:A:GLY:HA3	11	1.04
(1,3320)	1:5:A:ALA:HB1	1:4:A:LYS:HB2	10	1.04
(1,3320)	1:5:A:ALA:HB2	1:4:A:LYS:HB2	10	1.04
(1,3320)	1:5:A:ALA:HB3	1:4:A:LYS:HB2	10	1.04
(1,3028)	1:96:A:THR:HG21	1:72:A:ILE:HG12	1	1.04
(1,3028)	1:96:A:THR:HG22	1:72:A:ILE:HG12	1	1.04
(1,3028)	1:96:A:THR:HG23	1:72:A:ILE:HG12	1	1.04
(1,2843)	1:154:A:VAL:HB	1:126:A:ILE:HG12	8	1.04
(1,2459)	1:134:A:PHE:H	1:112:A:ILE:HG12	16	1.04
(1,2167)	1:60:A:LYS:HG3	1:61:A:LEU:HD21	6	1.04
(1,2167)	1:60:A:LYS:HG3	1:61:A:LEU:HD22	6	1.04
(1,2167)	1:60:A:LYS:HG3	1:61:A:LEU:HD23	6	1.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2052)	1:109:A:ARG:HB3	1:144:A:ILE:HG13	8	1.04
(1,2014)	1:18:A:ASN:HB2	1:15:A:LEU:HB2	1	1.04
(1,1599)	1:173:A:THR:H	1:172:A:GLN:HG3	2	1.04
(1,1416)	1:179:A:LEU:HA	1:184:A:ILE:HG12	1	1.04
(1,1416)	1:179:A:LEU:HA	1:184:A:ILE:HG12	18	1.04
(1,1416)	1:179:A:LEU:HA	1:184:A:ILE:HG12	20	1.04
(1,359)	1:34:A:THR:HB	1:26:A:VAL:HG11	4	1.04
(1,359)	1:34:A:THR:HB	1:26:A:VAL:HG12	4	1.04
(1,359)	1:34:A:THR:HB	1:26:A:VAL:HG13	4	1.04
(1,42)	1:46:A:ASN:HB2	1:45:A:GLY:H	12	1.04
(1,4028)	1:72:A:ILE:HG13	1:70:A:ASP:H	4	1.03
(1,3844)	1:110:A:ASP:H	1:109:A:ARG:HD3	13	1.03
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG21	3	1.03
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG22	3	1.03
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG23	3	1.03
(1,3320)	1:5:A:ALA:HB1	1:4:A:LYS:HB2	6	1.03
(1,3320)	1:5:A:ALA:HB2	1:4:A:LYS:HB2	6	1.03
(1,3320)	1:5:A:ALA:HB3	1:4:A:LYS:HB2	6	1.03
(1,3064)	1:155:A:CYS:H	1:126:A:ILE:HG12	3	1.03
(1,3028)	1:96:A:THR:HG21	1:72:A:ILE:HG12	20	1.03
(1,3028)	1:96:A:THR:HG22	1:72:A:ILE:HG12	20	1.03
(1,3028)	1:96:A:THR:HG23	1:72:A:ILE:HG12	20	1.03
(1,2843)	1:154:A:VAL:HB	1:126:A:ILE:HG12	4	1.03
(1,2843)	1:154:A:VAL:HB	1:126:A:ILE:HG12	5	1.03
(1,2747)	1:91:A:THR:HG21	1:4:A:LYS:HD3	10	1.03
(1,2747)	1:91:A:THR:HG22	1:4:A:LYS:HD3	10	1.03
(1,2747)	1:91:A:THR:HG23	1:4:A:LYS:HD3	10	1.03
(1,2206)	1:168:A:VAL:HG11	1:51:A:GLU:HG2	5	1.03
(1,2206)	1:168:A:VAL:HG12	1:51:A:GLU:HG2	5	1.03
(1,2206)	1:168:A:VAL:HG13	1:51:A:GLU:HG2	5	1.03
(1,2014)	1:18:A:ASN:HB2	1:15:A:LEU:HB2	20	1.03
(1,1416)	1:179:A:LEU:HA	1:184:A:ILE:HG12	3	1.03
(1,359)	1:34:A:THR:HB	1:26:A:VAL:HG11	9	1.03
(1,359)	1:34:A:THR:HB	1:26:A:VAL:HG12	9	1.03
(1,359)	1:34:A:THR:HB	1:26:A:VAL:HG13	9	1.03
(1,3)	1:76:A:LYS:HE3	1:197:A:LEU:HD11	11	1.03
(1,3)	1:76:A:LYS:HE3	1:197:A:LEU:HD12	11	1.03
(1,3)	1:76:A:LYS:HE3	1:197:A:LEU:HD13	11	1.03
(1,4350)	1:21:A:THR:HG21	1:20:A:ASP:HB2	3	1.02
(1,4350)	1:21:A:THR:HG22	1:20:A:ASP:HB2	3	1.02
(1,4350)	1:21:A:THR:HG23	1:20:A:ASP:HB2	3	1.02
(1,4308)	1:70:A:ASP:H	1:71:A:ARG:HB2	8	1.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4308)	1:70:A:ASP:H	1:71:A:ARG:HB2	11	1.02
(1,3937)	1:18:A:ASN:HB2	1:17:A:TYR:HB3	7	1.02
(1,3778)	1:76:A:LYS:HE3	1:76:A:LYS:HG3	16	1.02
(1,3525)	1:68:A:THR:HG21	1:69:A:GLY:HA3	14	1.02
(1,3525)	1:68:A:THR:HG22	1:69:A:GLY:HA3	14	1.02
(1,3525)	1:68:A:THR:HG23	1:69:A:GLY:HA3	14	1.02
(1,3512)	1:124:A:MET:H	1:122:A:GLY:HA3	7	1.02
(1,3342)	1:180:A:SER:HB3	1:183:A:ILE:HG13	18	1.02
(1,3320)	1:5:A:ALA:HB1	1:4:A:LYS:HB2	19	1.02
(1,3320)	1:5:A:ALA:HB2	1:4:A:LYS:HB2	19	1.02
(1,3320)	1:5:A:ALA:HB3	1:4:A:LYS:HB2	19	1.02
(1,3028)	1:96:A:THR:HG21	1:72:A:ILE:HG12	2	1.02
(1,3028)	1:96:A:THR:HG22	1:72:A:ILE:HG12	2	1.02
(1,3028)	1:96:A:THR:HG23	1:72:A:ILE:HG12	2	1.02
(1,2961)	1:156:A:SER:H	1:166:A:LYS:HD2	13	1.02
(1,2843)	1:154:A:VAL:HB	1:126:A:ILE:HG12	13	1.02
(1,2564)	1:20:A:ASP:H	1:19:A:ARG:HG2	10	1.02
(1,2564)	1:20:A:ASP:H	1:19:A:ARG:HG2	18	1.02
(1,1463)	1:91:A:THR:HA	1:117:A:ILE:HG12	20	1.02
(1,1343)	1:129:A:SER:HB2	1:127:A:ILE:HG13	7	1.02
(1,742)	1:80:A:VAL:HG21	1:97:A:ILE:HG21	13	1.02
(1,742)	1:80:A:VAL:HG21	1:97:A:ILE:HG22	13	1.02
(1,742)	1:80:A:VAL:HG21	1:97:A:ILE:HG23	13	1.02
(1,742)	1:80:A:VAL:HG22	1:97:A:ILE:HG21	13	1.02
(1,742)	1:80:A:VAL:HG22	1:97:A:ILE:HG22	13	1.02
(1,742)	1:80:A:VAL:HG22	1:97:A:ILE:HG23	13	1.02
(1,742)	1:80:A:VAL:HG23	1:97:A:ILE:HG21	13	1.02
(1,742)	1:80:A:VAL:HG23	1:97:A:ILE:HG22	13	1.02
(1,742)	1:80:A:VAL:HG23	1:97:A:ILE:HG23	13	1.02
(1,691)	1:71:A:ARG:HB2	1:68:A:THR:H	5	1.02
(1,4242)	1:130:A:LYS:HD2	1:10:A:THR:H	3	1.01
(1,4228)	1:170:A:PHE:H	1:171:A:VAL:HG11	9	1.01
(1,4228)	1:170:A:PHE:H	1:171:A:VAL:HG12	9	1.01
(1,4228)	1:170:A:PHE:H	1:171:A:VAL:HG13	9	1.01
(1,4166)	1:99:A:GLN:HG3	1:97:A:ILE:HG21	16	1.01
(1,4166)	1:99:A:GLN:HG3	1:97:A:ILE:HG22	16	1.01
(1,4166)	1:99:A:GLN:HG3	1:97:A:ILE:HG23	16	1.01
(1,3888)	1:97:A:ILE:HG21	1:99:A:GLN:HG3	16	1.01
(1,3888)	1:97:A:ILE:HG22	1:99:A:GLN:HG3	16	1.01
(1,3888)	1:97:A:ILE:HG23	1:99:A:GLN:HG3	16	1.01
(1,3537)	1:28:A:LYS:H	1:28:A:LYS:HD2	7	1.01
(1,3114)	1:22:A:SER:H	1:24:A:TRP:HB2	10	1.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3028)	1:96:A:THR:HG21	1:72:A:ILE:HG12	18	1.01
(1,3028)	1:96:A:THR:HG22	1:72:A:ILE:HG12	18	1.01
(1,3028)	1:96:A:THR:HG23	1:72:A:ILE:HG12	18	1.01
(1,2747)	1:91:A:THR:HG21	1:4:A:LYS:HD3	18	1.01
(1,2747)	1:91:A:THR:HG22	1:4:A:LYS:HD3	18	1.01
(1,2747)	1:91:A:THR:HG23	1:4:A:LYS:HD3	18	1.01
(1,2564)	1:20:A:ASP:H	1:19:A:ARG:HG2	6	1.01
(1,2564)	1:20:A:ASP:H	1:19:A:ARG:HG2	16	1.01
(1,2366)	1:22:A:SER:H	1:38:A:LYS:HD2	13	1.01
(1,2206)	1:168:A:VAL:HG11	1:51:A:GLU:HG2	8	1.01
(1,2206)	1:168:A:VAL:HG12	1:51:A:GLU:HG2	8	1.01
(1,2206)	1:168:A:VAL:HG13	1:51:A:GLU:HG2	8	1.01
(1,1988)	1:83:A:MET:HG3	1:68:A:THR:HG21	8	1.01
(1,1988)	1:83:A:MET:HG3	1:68:A:THR:HG22	8	1.01
(1,1988)	1:83:A:MET:HG3	1:68:A:THR:HG23	8	1.01
(1,1849)	1:186:A:LYS:HB2	1:106:A:ILE:HD11	2	1.01
(1,1849)	1:186:A:LYS:HB2	1:106:A:ILE:HD12	2	1.01
(1,1849)	1:186:A:LYS:HB2	1:106:A:ILE:HD13	2	1.01
(1,1416)	1:179:A:LEU:HA	1:184:A:ILE:HG12	9	1.01
(1,1416)	1:179:A:LEU:HA	1:184:A:ILE:HG12	17	1.01
(1,1302)	1:198:A:ASN:H	1:76:A:LYS:HG3	8	1.01
(1,1066)	1:144:A:ILE:HA	1:109:A:ARG:HG2	20	1.01
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG11	18	1.01
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG12	18	1.01
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG13	18	1.01
(1,42)	1:46:A:ASN:HB2	1:45:A:GLY:H	18	1.01
(1,4350)	1:21:A:THR:HG21	1:20:A:ASP:HB2	12	1.0
(1,4350)	1:21:A:THR:HG22	1:20:A:ASP:HB2	12	1.0
(1,4350)	1:21:A:THR:HG23	1:20:A:ASP:HB2	12	1.0
(1,4015)	1:27:A:VAL:H	1:36:A:SER:HB2	19	1.0
(1,3776)	1:114:A:LEU:HB3	1:93:A:ILE:HB	16	1.0
(1,3531)	1:88:A:ASP:H	1:86:A:ARG:HB2	6	1.0
(1,3525)	1:68:A:THR:HG21	1:69:A:GLY:HA3	10	1.0
(1,3525)	1:68:A:THR:HG22	1:69:A:GLY:HA3	10	1.0
(1,3525)	1:68:A:THR:HG23	1:69:A:GLY:HA3	10	1.0
(1,3525)	1:68:A:THR:HG21	1:69:A:GLY:HA3	20	1.0
(1,3525)	1:68:A:THR:HG22	1:69:A:GLY:HA3	20	1.0
(1,3525)	1:68:A:THR:HG23	1:69:A:GLY:HA3	20	1.0
(1,3114)	1:22:A:SER:H	1:24:A:TRP:HB2	2	1.0
(1,2892)	1:60:A:LYS:HB3	1:60:A:LYS:HD3	3	1.0
(1,2825)	1:68:A:THR:H	1:71:A:ARG:HB2	14	1.0
(1,2439)	1:202:A:GLY:H	1:198:A:ASN:HB3	16	1.0

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2351)	1:80:A:VAL:H	1:81:A:TYR:HB3	10	1.0
(1,1923)	1:71:A:ARG:HB3	1:78:A:LEU:HG	4	1.0
(1,1900)	1:167:A:LEU:H	1:53:A:ILE:HG12	17	1.0
(1,1416)	1:179:A:LEU:HA	1:184:A:ILE:HG12	12	1.0
(1,3)	1:76:A:LYS:HE3	1:197:A:LEU:HD11	14	1.0
(1,3)	1:76:A:LYS:HE3	1:197:A:LEU:HD12	14	1.0
(1,3)	1:76:A:LYS:HE3	1:197:A:LEU:HD13	14	1.0
(1,4350)	1:21:A:THR:HG21	1:20:A:ASP:HB2	2	0.99
(1,4350)	1:21:A:THR:HG22	1:20:A:ASP:HB2	2	0.99
(1,4350)	1:21:A:THR:HG23	1:20:A:ASP:HB2	2	0.99
(1,4220)	1:77:A:SER:HB3	1:78:A:LEU:HG	12	0.99
(1,3778)	1:76:A:LYS:HE3	1:76:A:LYS:HG3	18	0.99
(1,3531)	1:88:A:ASP:H	1:86:A:ARG:HB2	11	0.99
(1,3473)	1:1:A:MET:HA	1:4:A:LYS:HB3	7	0.99
(1,2961)	1:156:A:SER:H	1:166:A:LYS:HD2	1	0.99
(1,2640)	1:64:A:PHE:H	1:65:A:LEU:HD21	8	0.99
(1,2640)	1:64:A:PHE:H	1:65:A:LEU:HD22	8	0.99
(1,2640)	1:64:A:PHE:H	1:65:A:LEU:HD23	8	0.99
(1,2640)	1:64:A:PHE:H	1:65:A:LEU:HD21	15	0.99
(1,2640)	1:64:A:PHE:H	1:65:A:LEU:HD22	15	0.99
(1,2640)	1:64:A:PHE:H	1:65:A:LEU:HD23	15	0.99
(1,2439)	1:202:A:GLY:H	1:198:A:ASN:HB3	18	0.99
(1,1997)	1:33:A:ILE:HG12	1:193:A:VAL:HA	12	0.99
(1,1463)	1:91:A:THR:HA	1:117:A:ILE:HG12	3	0.99
(1,1310)	1:42:A:LYS:H	1:42:A:LYS:HE2	15	0.99
(1,1166)	1:105:A:SER:HB2	1:180:A:SER:H	10	0.99
(1,731)	1:46:A:ASN:HB3	1:47:A:LEU:HB3	18	0.99
(1,4228)	1:170:A:PHE:H	1:171:A:VAL:HG11	11	0.98
(1,4228)	1:170:A:PHE:H	1:171:A:VAL:HG12	11	0.98
(1,4228)	1:170:A:PHE:H	1:171:A:VAL:HG13	11	0.98
(1,3937)	1:18:A:ASN:HB2	1:17:A:TYR:HB3	3	0.98
(1,3778)	1:76:A:LYS:HE3	1:76:A:LYS:HG3	17	0.98
(1,3034)	1:144:A:ILE:HG12	1:109:A:ARG:HG2	2	0.98
(1,2479)	1:66:A:TYR:H	1:71:A:ARG:HB2	3	0.98
(1,2351)	1:80:A:VAL:H	1:81:A:TYR:HB3	7	0.98
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG11	1	0.98
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG12	1	0.98
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG13	1	0.98
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG11	2	0.98
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG12	2	0.98
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG13	2	0.98
(1,2017)	1:115:A:VAL:H	1:116:A:TYR:HB2	20	0.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1665)	1:74:A:TRP:HZ2	1:202:A:GLY:HA2	15	0.98
(1,1489)	1:175:A:MET:H	1:109:A:ARG:HD3	18	0.98
(1,1416)	1:179:A:LEU:HA	1:184:A:ILE:HG12	10	0.98
(1,1076)	1:146:A:GLY:H	1:109:A:ARG:HD3	13	0.98
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG11	2	0.98
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG12	2	0.98
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG13	2	0.98
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG11	19	0.98
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG12	19	0.98
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG13	19	0.98
(1,118)	1:25:A:LYS:H	1:25:A:LYS:HG3	3	0.98
(1,26)	1:98:A:THR:HG21	1:99:A:GLN:HG3	16	0.98
(1,26)	1:98:A:THR:HG22	1:99:A:GLN:HG3	16	0.98
(1,26)	1:98:A:THR:HG23	1:99:A:GLN:HG3	16	0.98
(1,19)	1:106:A:ILE:HG21	1:109:A:ARG:HD2	4	0.98
(1,19)	1:106:A:ILE:HG22	1:109:A:ARG:HD2	4	0.98
(1,19)	1:106:A:ILE:HG23	1:109:A:ARG:HD2	4	0.98
(1,4350)	1:21:A:THR:HG21	1:20:A:ASP:HB2	8	0.97
(1,4350)	1:21:A:THR:HG22	1:20:A:ASP:HB2	8	0.97
(1,4350)	1:21:A:THR:HG23	1:20:A:ASP:HB2	8	0.97
(1,4015)	1:27:A:VAL:H	1:36:A:SER:HB2	9	0.97
(1,3512)	1:124:A:MET:H	1:122:A:GLY:HA3	16	0.97
(1,3114)	1:22:A:SER:H	1:24:A:TRP:HB2	16	0.97
(1,3064)	1:155:A:CYS:H	1:126:A:ILE:HG12	6	0.97
(1,3064)	1:155:A:CYS:H	1:126:A:ILE:HG12	11	0.97
(1,3064)	1:155:A:CYS:H	1:126:A:ILE:HG12	14	0.97
(1,3064)	1:155:A:CYS:H	1:126:A:ILE:HG12	18	0.97
(1,2961)	1:156:A:SER:H	1:166:A:LYS:HD2	7	0.97
(1,2892)	1:60:A:LYS:HB3	1:60:A:LYS:HD3	20	0.97
(1,2747)	1:91:A:THR:HG21	1:4:A:LYS:HD3	16	0.97
(1,2747)	1:91:A:THR:HG22	1:4:A:LYS:HD3	16	0.97
(1,2747)	1:91:A:THR:HG23	1:4:A:LYS:HD3	16	0.97
(1,2564)	1:20:A:ASP:H	1:19:A:ARG:HG2	17	0.97
(1,2366)	1:22:A:SER:H	1:38:A:LYS:HD2	4	0.97
(1,2052)	1:109:A:ARG:HB3	1:144:A:ILE:HG13	4	0.97
(1,368)	1:192:A:LEU:HG	1:171:A:VAL:HG21	18	0.97
(1,368)	1:192:A:LEU:HG	1:171:A:VAL:HG22	18	0.97
(1,368)	1:192:A:LEU:HG	1:171:A:VAL:HG23	18	0.97
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG11	16	0.97
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG12	16	0.97
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG13	16	0.97
(1,4350)	1:21:A:THR:HG21	1:20:A:ASP:HB2	10	0.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4350)	1:21:A:THR:HG22	1:20:A:ASP:HB2	10	0.96
(1,4350)	1:21:A:THR:HG23	1:20:A:ASP:HB2	10	0.96
(1,4028)	1:72:A:ILE:HG13	1:70:A:ASP:H	17	0.96
(1,3064)	1:155:A:CYS:H	1:126:A:ILE:HG12	17	0.96
(1,3028)	1:96:A:THR:HG21	1:72:A:ILE:HG12	15	0.96
(1,3028)	1:96:A:THR:HG22	1:72:A:ILE:HG12	15	0.96
(1,3028)	1:96:A:THR:HG23	1:72:A:ILE:HG12	15	0.96
(1,2961)	1:156:A:SER:H	1:166:A:LYS:HD2	20	0.96
(1,2892)	1:60:A:LYS:HB3	1:60:A:LYS:HD3	16	0.96
(1,2685)	1:177:A:GLY:H	1:176:A:ARG:HG3	11	0.96
(1,2459)	1:134:A:PHE:H	1:112:A:ILE:HG12	18	0.96
(1,2052)	1:109:A:ARG:HB3	1:144:A:ILE:HG13	20	0.96
(1,1923)	1:71:A:ARG:HB3	1:78:A:LEU:HG	5	0.96
(1,1416)	1:179:A:LEU:HA	1:184:A:ILE:HG12	7	0.96
(1,1069)	1:191:A:ASN:HA	1:192:A:LEU:HD21	18	0.96
(1,1069)	1:191:A:ASN:HA	1:192:A:LEU:HD22	18	0.96
(1,1069)	1:191:A:ASN:HA	1:192:A:LEU:HD23	18	0.96
(1,1066)	1:144:A:ILE:HA	1:109:A:ARG:HG2	3	0.96
(1,1035)	1:167:A:LEU:HB3	1:166:A:LYS:HD3	17	0.96
(1,908)	1:180:A:SER:HB2	1:183:A:ILE:HB	15	0.96
(1,230)	1:68:A:THR:HA	1:67:A:GLN:HB3	13	0.96
(1,92)	1:169:A:MET:HB2	1:50:A:VAL:HG11	16	0.96
(1,92)	1:169:A:MET:HB2	1:50:A:VAL:HG12	16	0.96
(1,92)	1:169:A:MET:HB2	1:50:A:VAL:HG13	16	0.96
(1,4228)	1:170:A:PHE:H	1:171:A:VAL:HG11	10	0.95
(1,4228)	1:170:A:PHE:H	1:171:A:VAL:HG12	10	0.95
(1,4228)	1:170:A:PHE:H	1:171:A:VAL:HG13	10	0.95
(1,3719)	1:67:A:GLN:HA	1:71:A:ARG:HG3	5	0.95
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG21	20	0.95
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG22	20	0.95
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG23	20	0.95
(1,3350)	1:24:A:TRP:HD1	1:38:A:LYS:HG3	19	0.95
(1,3153)	1:204:A:LYS:HB3	1:208:A:THR:HB	20	0.95
(1,2892)	1:60:A:LYS:HB3	1:60:A:LYS:HD3	9	0.95
(1,2825)	1:68:A:THR:H	1:71:A:ARG:HB2	17	0.95
(1,2638)	1:176:A:ARG:H	1:174:A:GLU:HB3	3	0.95
(1,2351)	1:80:A:VAL:H	1:81:A:TYR:HB3	1	0.95
(1,1874)	1:153:A:PHE:HB2	1:65:A:LEU:HD11	13	0.95
(1,1874)	1:153:A:PHE:HB2	1:65:A:LEU:HD12	13	0.95
(1,1874)	1:153:A:PHE:HB2	1:65:A:LEU:HD13	13	0.95
(1,1589)	1:190:A:SER:HB3	1:102:A:ALA:HB1	1	0.95
(1,1589)	1:190:A:SER:HB3	1:102:A:ALA:HB2	1	0.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1589)	1:190:A:SER:HB3	1:102:A:ALA:HB3	1	0.95
(1,908)	1:180:A:SER:HB2	1:183:A:ILE:HB	2	0.95
(1,402)	1:194:A:ASN:HA	1:76:A:LYS:HE3	19	0.95
(1,102)	1:73:A:THR:HB	1:72:A:ILE:HG13	2	0.95
(1,102)	1:73:A:THR:HB	1:72:A:ILE:HG13	12	0.95
(1,4350)	1:21:A:THR:HG21	1:20:A:ASP:HB2	11	0.94
(1,4350)	1:21:A:THR:HG22	1:20:A:ASP:HB2	11	0.94
(1,4350)	1:21:A:THR:HG23	1:20:A:ASP:HB2	11	0.94
(1,4350)	1:21:A:THR:HG21	1:20:A:ASP:HB2	20	0.94
(1,4350)	1:21:A:THR:HG22	1:20:A:ASP:HB2	20	0.94
(1,4350)	1:21:A:THR:HG23	1:20:A:ASP:HB2	20	0.94
(1,3735)	1:193:A:VAL:H	1:194:A:ASN:HB2	5	0.94
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG21	9	0.94
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG22	9	0.94
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG23	9	0.94
(1,3441)	1:79:A:GLN:HB2	1:99:A:GLN:HG3	9	0.94
(1,3320)	1:5:A:ALA:HB1	1:4:A:LYS:HB2	17	0.94
(1,3320)	1:5:A:ALA:HB2	1:4:A:LYS:HB2	17	0.94
(1,3320)	1:5:A:ALA:HB3	1:4:A:LYS:HB2	17	0.94
(1,3114)	1:22:A:SER:H	1:24:A:TRP:HB2	1	0.94
(1,3064)	1:155:A:CYS:H	1:126:A:ILE:HG12	10	0.94
(1,3034)	1:144:A:ILE:HG12	1:109:A:ARG:HG2	3	0.94
(1,3028)	1:96:A:THR:HG21	1:72:A:ILE:HG12	13	0.94
(1,3028)	1:96:A:THR:HG22	1:72:A:ILE:HG12	13	0.94
(1,3028)	1:96:A:THR:HG23	1:72:A:ILE:HG12	13	0.94
(1,2796)	1:203:A:ILE:HD11	1:63:A:ASP:HB2	12	0.94
(1,2796)	1:203:A:ILE:HD12	1:63:A:ASP:HB2	12	0.94
(1,2796)	1:203:A:ILE:HD13	1:63:A:ASP:HB2	12	0.94
(1,2747)	1:91:A:THR:HG21	1:4:A:LYS:HD3	6	0.94
(1,2747)	1:91:A:THR:HG22	1:4:A:LYS:HD3	6	0.94
(1,2747)	1:91:A:THR:HG23	1:4:A:LYS:HD3	6	0.94
(1,2404)	1:157:A:PRO:HD2	1:122:A:GLY:HA3	20	0.94
(1,2368)	1:137:A:TYR:HB2	1:136:A:GLU:HG3	15	0.94
(1,1994)	1:176:A:ARG:H	1:109:A:ARG:HD3	11	0.94
(1,1847)	1:186:A:LYS:HG3	1:183:A:ILE:HD11	6	0.94
(1,1847)	1:186:A:LYS:HG3	1:183:A:ILE:HD12	6	0.94
(1,1847)	1:186:A:LYS:HG3	1:183:A:ILE:HD13	6	0.94
(1,1516)	1:168:A:VAL:HG21	1:51:A:GLU:HG2	14	0.94
(1,1516)	1:168:A:VAL:HG22	1:51:A:GLU:HG2	14	0.94
(1,1516)	1:168:A:VAL:HG23	1:51:A:GLU:HG2	14	0.94
(1,1463)	1:91:A:THR:HA	1:117:A:ILE:HG12	4	0.94
(1,402)	1:194:A:ASN:HA	1:76:A:LYS:HE3	14	0.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,375)	1:112:A:ILE:HG21	1:95:A:HIS:HB3	12	0.94
(1,375)	1:112:A:ILE:HG22	1:95:A:HIS:HB3	12	0.94
(1,375)	1:112:A:ILE:HG23	1:95:A:HIS:HB3	12	0.94
(1,320)	1:25:A:LYS:H	1:25:A:LYS:HE3	18	0.94
(1,118)	1:25:A:LYS:H	1:25:A:LYS:HG3	11	0.94
(1,118)	1:25:A:LYS:H	1:25:A:LYS:HG3	14	0.94
(1,118)	1:25:A:LYS:H	1:25:A:LYS:HG3	17	0.94
(1,4355)	1:29:A:THR:HB	1:33:A:ILE:HG12	13	0.93
(1,4350)	1:21:A:THR:HG21	1:20:A:ASP:HB2	19	0.93
(1,4350)	1:21:A:THR:HG22	1:20:A:ASP:HB2	19	0.93
(1,4350)	1:21:A:THR:HG23	1:20:A:ASP:HB2	19	0.93
(1,3937)	1:18:A:ASN:HB2	1:17:A:TYR:HB3	16	0.93
(1,3560)	1:198:A:ASN:H	1:194:A:ASN:HB3	5	0.93
(1,3320)	1:5:A:ALA:HB1	1:4:A:LYS:HB2	7	0.93
(1,3320)	1:5:A:ALA:HB2	1:4:A:LYS:HB2	7	0.93
(1,3320)	1:5:A:ALA:HB3	1:4:A:LYS:HB2	7	0.93
(1,3064)	1:155:A:CYS:H	1:126:A:ILE:HG12	4	0.93
(1,3064)	1:155:A:CYS:H	1:126:A:ILE:HG12	7	0.93
(1,2961)	1:156:A:SER:H	1:166:A:LYS:HD2	14	0.93
(1,2640)	1:64:A:PHE:H	1:65:A:LEU:HD21	20	0.93
(1,2640)	1:64:A:PHE:H	1:65:A:LEU:HD22	20	0.93
(1,2640)	1:64:A:PHE:H	1:65:A:LEU:HD23	20	0.93
(1,1923)	1:71:A:ARG:HB3	1:78:A:LEU:HG	3	0.93
(1,1923)	1:71:A:ARG:HB3	1:78:A:LEU:HG	13	0.93
(1,1343)	1:129:A:SER:HB2	1:127:A:ILE:HG13	18	0.93
(1,564)	1:173:A:THR:HA	1:171:A:VAL:HG11	2	0.93
(1,564)	1:173:A:THR:HA	1:171:A:VAL:HG12	2	0.93
(1,564)	1:173:A:THR:HA	1:171:A:VAL:HG13	2	0.93
(1,402)	1:194:A:ASN:HA	1:76:A:LYS:HE3	6	0.93
(1,4350)	1:21:A:THR:HG21	1:20:A:ASP:HB2	4	0.92
(1,4350)	1:21:A:THR:HG22	1:20:A:ASP:HB2	4	0.92
(1,4350)	1:21:A:THR:HG23	1:20:A:ASP:HB2	4	0.92
(1,4350)	1:21:A:THR:HG21	1:20:A:ASP:HB2	7	0.92
(1,4350)	1:21:A:THR:HG22	1:20:A:ASP:HB2	7	0.92
(1,4350)	1:21:A:THR:HG23	1:20:A:ASP:HB2	7	0.92
(1,4343)	1:193:A:VAL:HG11	1:194:A:ASN:HB2	8	0.92
(1,4343)	1:193:A:VAL:HG12	1:194:A:ASN:HB2	8	0.92
(1,4343)	1:193:A:VAL:HG13	1:194:A:ASN:HB2	8	0.92
(1,4220)	1:77:A:SER:HB3	1:78:A:LEU:HG	17	0.92
(1,3560)	1:198:A:ASN:H	1:194:A:ASN:HB3	8	0.92
(1,3114)	1:22:A:SER:H	1:24:A:TRP:HB2	14	0.92
(1,2892)	1:60:A:LYS:HB3	1:60:A:LYS:HD3	14	0.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2825)	1:68:A:THR:H	1:71:A:ARG:HB2	5	0.92
(1,2796)	1:203:A:ILE:HD11	1:63:A:ASP:HB2	4	0.92
(1,2796)	1:203:A:ILE:HD12	1:63:A:ASP:HB2	4	0.92
(1,2796)	1:203:A:ILE:HD13	1:63:A:ASP:HB2	4	0.92
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG11	12	0.92
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG12	12	0.92
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG13	12	0.92
(1,1726)	1:186:A:LYS:HB2	1:184:A:ILE:HA	20	0.92
(1,1343)	1:129:A:SER:HB2	1:127:A:ILE:HG13	10	0.92
(1,1207)	1:90:A:ASP:H	1:4:A:LYS:HE3	14	0.92
(1,908)	1:180:A:SER:HB2	1:183:A:ILE:HB	16	0.92
(1,564)	1:173:A:THR:HA	1:171:A:VAL:HG11	13	0.92
(1,564)	1:173:A:THR:HA	1:171:A:VAL:HG12	13	0.92
(1,564)	1:173:A:THR:HA	1:171:A:VAL:HG13	13	0.92
(1,375)	1:112:A:ILE:HG21	1:95:A:HIS:HB3	3	0.92
(1,375)	1:112:A:ILE:HG22	1:95:A:HIS:HB3	3	0.92
(1,375)	1:112:A:ILE:HG23	1:95:A:HIS:HB3	3	0.92
(1,320)	1:25:A:LYS:H	1:25:A:LYS:HE3	5	0.92
(1,118)	1:25:A:LYS:H	1:25:A:LYS:HG3	2	0.92
(1,42)	1:46:A:ASN:HB2	1:45:A:GLY:H	17	0.92
(1,4350)	1:21:A:THR:HG21	1:20:A:ASP:HB2	1	0.91
(1,4350)	1:21:A:THR:HG22	1:20:A:ASP:HB2	1	0.91
(1,4350)	1:21:A:THR:HG23	1:20:A:ASP:HB2	1	0.91
(1,4228)	1:170:A:PHE:H	1:171:A:VAL:HG11	14	0.91
(1,4228)	1:170:A:PHE:H	1:171:A:VAL:HG12	14	0.91
(1,4228)	1:170:A:PHE:H	1:171:A:VAL:HG13	14	0.91
(1,3064)	1:155:A:CYS:H	1:126:A:ILE:HG12	9	0.91
(1,3034)	1:144:A:ILE:HG12	1:109:A:ARG:HG2	6	0.91
(1,3028)	1:96:A:THR:HG21	1:72:A:ILE:HG12	6	0.91
(1,3028)	1:96:A:THR:HG22	1:72:A:ILE:HG12	6	0.91
(1,3028)	1:96:A:THR:HG23	1:72:A:ILE:HG12	6	0.91
(1,2843)	1:154:A:VAL:HB	1:126:A:ILE:HG12	2	0.91
(1,2404)	1:157:A:PRO:HD2	1:122:A:GLY:HA3	2	0.91
(1,2368)	1:137:A:TYR:HB2	1:136:A:GLU:HG3	2	0.91
(1,2353)	1:132:A:VAL:HG21	1:130:A:LYS:HB3	18	0.91
(1,2353)	1:132:A:VAL:HG22	1:130:A:LYS:HB3	18	0.91
(1,2353)	1:132:A:VAL:HG23	1:130:A:LYS:HB3	18	0.91
(1,2052)	1:109:A:ARG:HB3	1:144:A:ILE:HG13	7	0.91
(1,1069)	1:191:A:ASN:HA	1:192:A:LEU:HD21	9	0.91
(1,1069)	1:191:A:ASN:HA	1:192:A:LEU:HD22	9	0.91
(1,1069)	1:191:A:ASN:HA	1:192:A:LEU:HD23	9	0.91
(1,599)	1:39:A:ALA:H	1:46:A:ASN:HB3	11	0.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG11	13	0.91
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG12	13	0.91
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG13	13	0.91
(1,102)	1:73:A:THR:HB	1:72:A:ILE:HG13	8	0.91
(1,4355)	1:29:A:THR:HB	1:33:A:ILE:HG12	17	0.9
(1,4355)	1:29:A:THR:HB	1:33:A:ILE:HG12	19	0.9
(1,4015)	1:27:A:VAL:H	1:36:A:SER:HB2	17	0.9
(1,3778)	1:76:A:LYS:HE3	1:76:A:LYS:HG3	5	0.9
(1,3598)	1:24:A:TRP:HH2	1:36:A:SER:HB3	18	0.9
(1,2961)	1:156:A:SER:H	1:166:A:LYS:HD2	3	0.9
(1,2961)	1:156:A:SER:H	1:166:A:LYS:HD2	16	0.9
(1,2676)	1:206:A:HIS:HA	1:60:A:LYS:HD2	17	0.9
(1,2640)	1:64:A:PHE:H	1:65:A:LEU:HD21	14	0.9
(1,2640)	1:64:A:PHE:H	1:65:A:LEU:HD22	14	0.9
(1,2640)	1:64:A:PHE:H	1:65:A:LEU:HD23	14	0.9
(1,2542)	1:50:A:VAL:H	1:169:A:MET:HG2	17	0.9
(1,2145)	1:173:A:THR:HA	1:174:A:GLU:HB2	2	0.9
(1,2145)	1:173:A:THR:HA	1:174:A:GLU:HB2	3	0.9
(1,1658)	1:130:A:LYS:HE3	1:6:A:ILE:HG21	7	0.9
(1,1658)	1:130:A:LYS:HE3	1:6:A:ILE:HG22	7	0.9
(1,1658)	1:130:A:LYS:HE3	1:6:A:ILE:HG23	7	0.9
(1,1516)	1:168:A:VAL:HG21	1:51:A:GLU:HG2	15	0.9
(1,1516)	1:168:A:VAL:HG22	1:51:A:GLU:HG2	15	0.9
(1,1516)	1:168:A:VAL:HG23	1:51:A:GLU:HG2	15	0.9
(1,1463)	1:91:A:THR:HA	1:117:A:ILE:HG12	17	0.9
(1,1343)	1:129:A:SER:HB2	1:127:A:ILE:HG13	12	0.9
(1,1069)	1:191:A:ASN:HA	1:192:A:LEU:HD21	20	0.9
(1,1069)	1:191:A:ASN:HA	1:192:A:LEU:HD22	20	0.9
(1,1069)	1:191:A:ASN:HA	1:192:A:LEU:HD23	20	0.9
(1,749)	1:105:A:SER:HB2	1:179:A:LEU:HG	6	0.9
(1,741)	1:147:A:TYR:H	1:144:A:ILE:HG12	16	0.9
(1,599)	1:39:A:ALA:H	1:46:A:ASN:HB3	1	0.9
(1,287)	1:26:A:VAL:H	1:25:A:LYS:HE3	15	0.9
(1,102)	1:73:A:THR:HB	1:72:A:ILE:HG13	3	0.9
(1,4343)	1:193:A:VAL:HG11	1:194:A:ASN:HB2	2	0.89
(1,4343)	1:193:A:VAL:HG12	1:194:A:ASN:HB2	2	0.89
(1,4343)	1:193:A:VAL:HG13	1:194:A:ASN:HB2	2	0.89
(1,4343)	1:193:A:VAL:HG11	1:194:A:ASN:HB2	19	0.89
(1,4343)	1:193:A:VAL:HG12	1:194:A:ASN:HB2	19	0.89
(1,4343)	1:193:A:VAL:HG13	1:194:A:ASN:HB2	19	0.89
(1,4308)	1:70:A:ASP:H	1:71:A:ARG:HB2	7	0.89
(1,4308)	1:70:A:ASP:H	1:71:A:ARG:HB2	14	0.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4107)	1:79:A:GLN:H	1:72:A:ILE:HG12	11	0.89
(1,3525)	1:68:A:THR:HG21	1:69:A:GLY:HA3	4	0.89
(1,3525)	1:68:A:THR:HG22	1:69:A:GLY:HA3	4	0.89
(1,3525)	1:68:A:THR:HG23	1:69:A:GLY:HA3	4	0.89
(1,3525)	1:68:A:THR:HG21	1:69:A:GLY:HA3	19	0.89
(1,3525)	1:68:A:THR:HG22	1:69:A:GLY:HA3	19	0.89
(1,3525)	1:68:A:THR:HG23	1:69:A:GLY:HA3	19	0.89
(1,3342)	1:180:A:SER:HB3	1:183:A:ILE:HG13	14	0.89
(1,2961)	1:156:A:SER:H	1:166:A:LYS:HD2	9	0.89
(1,2629)	1:84:A:VAL:H	1:83:A:MET:HG2	19	0.89
(1,2499)	1:197:A:LEU:H	1:198:A:ASN:HB2	18	0.89
(1,2351)	1:80:A:VAL:H	1:81:A:TYR:HB3	5	0.89
(1,2206)	1:168:A:VAL:HG11	1:51:A:GLU:HG2	9	0.89
(1,2206)	1:168:A:VAL:HG12	1:51:A:GLU:HG2	9	0.89
(1,2206)	1:168:A:VAL:HG13	1:51:A:GLU:HG2	9	0.89
(1,2052)	1:109:A:ARG:HB3	1:144:A:ILE:HG13	3	0.89
(1,1553)	1:57:A:SER:H	1:58:A:PRO:HD3	5	0.89
(1,1489)	1:175:A:MET:H	1:109:A:ARG:HD3	15	0.89
(1,1289)	1:80:A:VAL:HG21	1:79:A:GLN:HB3	13	0.89
(1,1289)	1:80:A:VAL:HG22	1:79:A:GLN:HB3	13	0.89
(1,1289)	1:80:A:VAL:HG23	1:79:A:GLN:HB3	13	0.89
(1,1259)	1:25:A:LYS:H	1:24:A:TRP:HE1	16	0.89
(1,949)	1:151:A:CYS:H	1:149:A:HIS:HB2	20	0.89
(1,736)	1:61:A:LEU:HG	1:56:A:GLU:HG2	9	0.89
(1,320)	1:25:A:LYS:H	1:25:A:LYS:HE3	1	0.89
(1,144)	1:202:A:GLY:H	1:200:A:LYS:HB2	14	0.89
(1,4350)	1:21:A:THR:HG21	1:20:A:ASP:HB2	9	0.88
(1,4350)	1:21:A:THR:HG22	1:20:A:ASP:HB2	9	0.88
(1,4350)	1:21:A:THR:HG23	1:20:A:ASP:HB2	9	0.88
(1,4224)	1:40:A:SER:HA	1:172:A:GLN:HG3	8	0.88
(1,3320)	1:5:A:ALA:HB1	1:4:A:LYS:HB2	4	0.88
(1,3320)	1:5:A:ALA:HB2	1:4:A:LYS:HB2	4	0.88
(1,3320)	1:5:A:ALA:HB3	1:4:A:LYS:HB2	4	0.88
(1,3320)	1:5:A:ALA:HB1	1:4:A:LYS:HB2	5	0.88
(1,3320)	1:5:A:ALA:HB2	1:4:A:LYS:HB2	5	0.88
(1,3320)	1:5:A:ALA:HB3	1:4:A:LYS:HB2	5	0.88
(1,3064)	1:155:A:CYS:H	1:126:A:ILE:HG12	15	0.88
(1,3064)	1:155:A:CYS:H	1:126:A:ILE:HG12	19	0.88
(1,2961)	1:156:A:SER:H	1:166:A:LYS:HD2	8	0.88
(1,2961)	1:156:A:SER:H	1:166:A:LYS:HD2	10	0.88
(1,2479)	1:66:A:TYR:H	1:71:A:ARG:HB2	20	0.88
(1,1874)	1:153:A:PHE:HB2	1:65:A:LEU:HD11	20	0.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1874)	1:153:A:PHE:HB2	1:65:A:LEU:HD12	20	0.88
(1,1874)	1:153:A:PHE:HB2	1:65:A:LEU:HD13	20	0.88
(1,1599)	1:173:A:THR:H	1:172:A:GLN:HG3	8	0.88
(1,1553)	1:57:A:SER:H	1:58:A:PRO:HD3	3	0.88
(1,1553)	1:57:A:SER:H	1:58:A:PRO:HD3	20	0.88
(1,1405)	1:42:A:LYS:HB3	1:43:A:PHE:HB2	3	0.88
(1,1310)	1:42:A:LYS:H	1:42:A:LYS:HE2	10	0.88
(1,691)	1:71:A:ARG:HB2	1:68:A:THR:H	2	0.88
(1,593)	1:84:A:VAL:H	1:86:A:ARG:HG2	5	0.88
(1,359)	1:34:A:THR:HB	1:26:A:VAL:HG11	7	0.88
(1,359)	1:34:A:THR:HB	1:26:A:VAL:HG12	7	0.88
(1,359)	1:34:A:THR:HB	1:26:A:VAL:HG13	7	0.88
(1,102)	1:73:A:THR:HB	1:72:A:ILE:HG13	7	0.88
(1,4355)	1:29:A:THR:HB	1:33:A:ILE:HG12	6	0.87
(1,4015)	1:27:A:VAL:H	1:36:A:SER:HB2	1	0.87
(1,3937)	1:18:A:ASN:HB2	1:17:A:TYR:HB3	4	0.87
(1,3342)	1:180:A:SER:HB3	1:183:A:ILE:HG13	12	0.87
(1,3320)	1:5:A:ALA:HB1	1:4:A:LYS:HB2	3	0.87
(1,3320)	1:5:A:ALA:HB2	1:4:A:LYS:HB2	3	0.87
(1,3320)	1:5:A:ALA:HB3	1:4:A:LYS:HB2	3	0.87
(1,3028)	1:96:A:THR:HG21	1:72:A:ILE:HG12	17	0.87
(1,3028)	1:96:A:THR:HG22	1:72:A:ILE:HG12	17	0.87
(1,3028)	1:96:A:THR:HG23	1:72:A:ILE:HG12	17	0.87
(1,2984)	1:166:A:LYS:HG2	1:51:A:GLU:HG2	2	0.87
(1,2984)	1:166:A:LYS:HG2	1:51:A:GLU:HG2	7	0.87
(1,2843)	1:154:A:VAL:HB	1:126:A:ILE:HG12	10	0.87
(1,2747)	1:91:A:THR:HG21	1:4:A:LYS:HD3	7	0.87
(1,2747)	1:91:A:THR:HG22	1:4:A:LYS:HD3	7	0.87
(1,2747)	1:91:A:THR:HG23	1:4:A:LYS:HD3	7	0.87
(1,2640)	1:64:A:PHE:H	1:65:A:LEU:HD21	13	0.87
(1,2640)	1:64:A:PHE:H	1:65:A:LEU:HD22	13	0.87
(1,2640)	1:64:A:PHE:H	1:65:A:LEU:HD23	13	0.87
(1,2629)	1:84:A:VAL:H	1:83:A:MET:HG2	11	0.87
(1,2499)	1:197:A:LEU:H	1:198:A:ASN:HB2	6	0.87
(1,2479)	1:66:A:TYR:H	1:71:A:ARG:HB2	12	0.87
(1,1847)	1:186:A:LYS:HG3	1:183:A:ILE:HD11	2	0.87
(1,1847)	1:186:A:LYS:HG3	1:183:A:ILE:HD12	2	0.87
(1,1847)	1:186:A:LYS:HG3	1:183:A:ILE:HD13	2	0.87
(1,1066)	1:144:A:ILE:HA	1:109:A:ARG:HG2	12	0.87
(1,833)	1:60:A:LYS:HE3	1:203:A:ILE:HD11	1	0.87
(1,833)	1:60:A:LYS:HE3	1:203:A:ILE:HD12	1	0.87
(1,833)	1:60:A:LYS:HE3	1:203:A:ILE:HD13	1	0.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,564)	1:173:A:THR:HA	1:171:A:VAL:HG11	15	0.87
(1,564)	1:173:A:THR:HA	1:171:A:VAL:HG12	15	0.87
(1,564)	1:173:A:THR:HA	1:171:A:VAL:HG13	15	0.87
(1,375)	1:112:A:ILE:HG21	1:95:A:HIS:HB3	13	0.87
(1,375)	1:112:A:ILE:HG22	1:95:A:HIS:HB3	13	0.87
(1,375)	1:112:A:ILE:HG23	1:95:A:HIS:HB3	13	0.87
(1,260)	1:145:A:ARG:HG3	1:147:A:TYR:HA	4	0.87
(1,102)	1:73:A:THR:HB	1:72:A:ILE:HG13	18	0.87
(1,4318)	1:119:A:ARG:H	1:119:A:ARG:HD2	1	0.86
(1,4318)	1:119:A:ARG:H	1:119:A:ARG:HD2	11	0.86
(1,4308)	1:70:A:ASP:H	1:71:A:ARG:HB2	6	0.86
(1,4308)	1:70:A:ASP:H	1:71:A:ARG:HB2	10	0.86
(1,4107)	1:79:A:GLN:H	1:72:A:ILE:HG12	4	0.86
(1,4107)	1:79:A:GLN:H	1:72:A:ILE:HG12	15	0.86
(1,4015)	1:27:A:VAL:H	1:36:A:SER:HB2	11	0.86
(1,3598)	1:24:A:TRP:HH2	1:36:A:SER:HB3	2	0.86
(1,3598)	1:24:A:TRP:HH2	1:36:A:SER:HB3	17	0.86
(1,3064)	1:155:A:CYS:H	1:126:A:ILE:HG12	8	0.86
(1,2961)	1:156:A:SER:H	1:166:A:LYS:HD2	5	0.86
(1,2961)	1:156:A:SER:H	1:166:A:LYS:HD2	12	0.86
(1,2892)	1:60:A:LYS:HB3	1:60:A:LYS:HD3	15	0.86
(1,2747)	1:91:A:THR:HG21	1:4:A:LYS:HD3	4	0.86
(1,2747)	1:91:A:THR:HG22	1:4:A:LYS:HD3	4	0.86
(1,2747)	1:91:A:THR:HG23	1:4:A:LYS:HD3	4	0.86
(1,2499)	1:197:A:LEU:H	1:198:A:ASN:HB2	2	0.86
(1,2351)	1:80:A:VAL:H	1:81:A:TYR:HB3	8	0.86
(1,2052)	1:109:A:ARG:HB3	1:144:A:ILE:HG13	2	0.86
(1,2052)	1:109:A:ARG:HB3	1:144:A:ILE:HG13	14	0.86
(1,1642)	1:154:A:VAL:H	1:169:A:MET:HB3	2	0.86
(1,1642)	1:154:A:VAL:H	1:169:A:MET:HB3	15	0.86
(1,1553)	1:57:A:SER:H	1:58:A:PRO:HD3	12	0.86
(1,1489)	1:175:A:MET:H	1:109:A:ARG:HD3	19	0.86
(1,1463)	1:91:A:THR:HA	1:117:A:ILE:HG12	5	0.86
(1,1463)	1:91:A:THR:HA	1:117:A:ILE:HG12	10	0.86
(1,1463)	1:91:A:THR:HA	1:117:A:ILE:HG12	16	0.86
(1,1066)	1:144:A:ILE:HA	1:109:A:ARG:HG2	16	0.86
(1,1033)	1:144:A:ILE:H	1:109:A:ARG:HD3	15	0.86
(1,741)	1:147:A:TYR:H	1:144:A:ILE:HG12	13	0.86
(1,564)	1:173:A:THR:HA	1:171:A:VAL:HG11	17	0.86
(1,564)	1:173:A:THR:HA	1:171:A:VAL:HG12	17	0.86
(1,564)	1:173:A:THR:HA	1:171:A:VAL:HG13	17	0.86
(1,475)	1:201:A:ASP:HA	1:204:A:LYS:HD2	15	0.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,379)	1:69:A:GLY:HA2	1:72:A:ILE:H	14	0.86
(1,102)	1:73:A:THR:HB	1:72:A:ILE:HG13	14	0.86
(1,4355)	1:29:A:THR:HB	1:33:A:ILE:HG12	12	0.85
(1,4015)	1:27:A:VAL:H	1:36:A:SER:HB2	18	0.85
(1,3537)	1:28:A:LYS:H	1:28:A:LYS:HD2	8	0.85
(1,3525)	1:68:A:THR:HG21	1:69:A:GLY:HA3	16	0.85
(1,3525)	1:68:A:THR:HG22	1:69:A:GLY:HA3	16	0.85
(1,3525)	1:68:A:THR:HG23	1:69:A:GLY:HA3	16	0.85
(1,3320)	1:5:A:ALA:HB1	1:4:A:LYS:HB2	16	0.85
(1,3320)	1:5:A:ALA:HB2	1:4:A:LYS:HB2	16	0.85
(1,3320)	1:5:A:ALA:HB3	1:4:A:LYS:HB2	16	0.85
(1,3114)	1:22:A:SER:H	1:24:A:TRP:HB2	13	0.85
(1,3064)	1:155:A:CYS:H	1:126:A:ILE:HG12	1	0.85
(1,3064)	1:155:A:CYS:H	1:126:A:ILE:HG12	5	0.85
(1,3064)	1:155:A:CYS:H	1:126:A:ILE:HG12	20	0.85
(1,2796)	1:203:A:ILE:HD11	1:63:A:ASP:HB2	10	0.85
(1,2796)	1:203:A:ILE:HD12	1:63:A:ASP:HB2	10	0.85
(1,2796)	1:203:A:ILE:HD13	1:63:A:ASP:HB2	10	0.85
(1,2747)	1:91:A:THR:HG21	1:4:A:LYS:HD3	14	0.85
(1,2747)	1:91:A:THR:HG22	1:4:A:LYS:HD3	14	0.85
(1,2747)	1:91:A:THR:HG23	1:4:A:LYS:HD3	14	0.85
(1,2351)	1:80:A:VAL:H	1:81:A:TYR:HB3	4	0.85
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG11	18	0.85
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG12	18	0.85
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG13	18	0.85
(1,1599)	1:173:A:THR:H	1:172:A:GLN:HG3	1	0.85
(1,1489)	1:175:A:MET:H	1:109:A:ARG:HD3	11	0.85
(1,1207)	1:90:A:ASP:H	1:4:A:LYS:HE3	18	0.85
(1,1151)	1:18:A:ASN:HB2	1:49:A:ARG:HG3	19	0.85
(1,1066)	1:144:A:ILE:HA	1:109:A:ARG:HG2	10	0.85
(1,993)	1:60:A:LYS:HG3	1:63:A:ASP:HB2	15	0.85
(1,646)	1:42:A:LYS:H	1:172:A:GLN:HG2	10	0.85
(1,539)	1:206:A:HIS:H	1:202:A:GLY:HA3	15	0.85
(1,4350)	1:21:A:THR:HG21	1:20:A:ASP:HB2	14	0.84
(1,4350)	1:21:A:THR:HG22	1:20:A:ASP:HB2	14	0.84
(1,4350)	1:21:A:THR:HG23	1:20:A:ASP:HB2	14	0.84
(1,4166)	1:99:A:GLN:HG3	1:97:A:ILE:HG21	8	0.84
(1,4166)	1:99:A:GLN:HG3	1:97:A:ILE:HG22	8	0.84
(1,4166)	1:99:A:GLN:HG3	1:97:A:ILE:HG23	8	0.84
(1,3888)	1:97:A:ILE:HG21	1:99:A:GLN:HG3	8	0.84
(1,3888)	1:97:A:ILE:HG22	1:99:A:GLN:HG3	8	0.84
(1,3888)	1:97:A:ILE:HG23	1:99:A:GLN:HG3	8	0.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3531)	1:88:A:ASP:H	1:86:A:ARG:HB2	13	0.84
(1,3320)	1:5:A:ALA:HB1	1:4:A:LYS:HB2	14	0.84
(1,3320)	1:5:A:ALA:HB2	1:4:A:LYS:HB2	14	0.84
(1,3320)	1:5:A:ALA:HB3	1:4:A:LYS:HB2	14	0.84
(1,3034)	1:144:A:ILE:HG12	1:109:A:ARG:HG2	14	0.84
(1,2984)	1:166:A:LYS:HG2	1:51:A:GLU:HG2	1	0.84
(1,2427)	1:129:A:SER:HB3	1:152:A:GLY:HA3	5	0.84
(1,2206)	1:168:A:VAL:HG11	1:51:A:GLU:HG2	6	0.84
(1,2206)	1:168:A:VAL:HG12	1:51:A:GLU:HG2	6	0.84
(1,2206)	1:168:A:VAL:HG13	1:51:A:GLU:HG2	6	0.84
(1,2145)	1:173:A:THR:HA	1:174:A:GLU:HB2	19	0.84
(1,1984)	1:82:A:ASN:HA	1:80:A:VAL:HG11	13	0.84
(1,1984)	1:82:A:ASN:HA	1:80:A:VAL:HG12	13	0.84
(1,1984)	1:82:A:ASN:HA	1:80:A:VAL:HG13	13	0.84
(1,1589)	1:190:A:SER:HB3	1:102:A:ALA:HB1	13	0.84
(1,1589)	1:190:A:SER:HB3	1:102:A:ALA:HB2	13	0.84
(1,1589)	1:190:A:SER:HB3	1:102:A:ALA:HB3	13	0.84
(1,1463)	1:91:A:THR:HA	1:117:A:ILE:HG12	15	0.84
(1,1416)	1:179:A:LEU:HA	1:184:A:ILE:HG12	2	0.84
(1,1343)	1:129:A:SER:HB2	1:127:A:ILE:HG13	13	0.84
(1,1151)	1:18:A:ASN:HB2	1:49:A:ARG:HG3	16	0.84
(1,1066)	1:144:A:ILE:HA	1:109:A:ARG:HG2	4	0.84
(1,993)	1:60:A:LYS:HG3	1:63:A:ASP:HB2	8	0.84
(1,599)	1:39:A:ALA:H	1:46:A:ASN:HB3	18	0.84
(1,539)	1:206:A:HIS:H	1:202:A:GLY:HA3	8	0.84
(1,375)	1:112:A:ILE:HG21	1:95:A:HIS:HB3	14	0.84
(1,375)	1:112:A:ILE:HG22	1:95:A:HIS:HB3	14	0.84
(1,375)	1:112:A:ILE:HG23	1:95:A:HIS:HB3	14	0.84
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG11	20	0.84
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG12	20	0.84
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG13	20	0.84
(1,258)	1:42:A:LYS:H	1:42:A:LYS:HD2	10	0.84
(1,19)	1:106:A:ILE:HG21	1:109:A:ARG:HD2	10	0.84
(1,19)	1:106:A:ILE:HG22	1:109:A:ARG:HD2	10	0.84
(1,19)	1:106:A:ILE:HG23	1:109:A:ARG:HD2	10	0.84
(1,4308)	1:70:A:ASP:H	1:71:A:ARG:HB2	16	0.83
(1,4107)	1:79:A:GLN:H	1:72:A:ILE:HG12	13	0.83
(1,4070)	1:42:A:LYS:HD3	1:42:A:LYS:HB3	2	0.83
(1,4028)	1:72:A:ILE:HG13	1:70:A:ASP:H	8	0.83
(1,4015)	1:27:A:VAL:H	1:36:A:SER:HB2	6	0.83
(1,4015)	1:27:A:VAL:H	1:36:A:SER:HB2	15	0.83
(1,3626)	1:77:A:SER:H	1:76:A:LYS:HD2	4	0.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3525)	1:68:A:THR:HG21	1:69:A:GLY:HA3	11	0.83
(1,3525)	1:68:A:THR:HG22	1:69:A:GLY:HA3	11	0.83
(1,3525)	1:68:A:THR:HG23	1:69:A:GLY:HA3	11	0.83
(1,3465)	1:71:A:ARG:HB2	1:65:A:LEU:HD11	17	0.83
(1,3465)	1:71:A:ARG:HB2	1:65:A:LEU:HD12	17	0.83
(1,3465)	1:71:A:ARG:HB2	1:65:A:LEU:HD13	17	0.83
(1,3114)	1:22:A:SER:H	1:24:A:TRP:HB2	15	0.83
(1,3064)	1:155:A:CYS:H	1:126:A:ILE:HG12	12	0.83
(1,2685)	1:177:A:GLY:H	1:176:A:ARG:HG3	6	0.83
(1,2629)	1:84:A:VAL:H	1:83:A:MET:HG2	1	0.83
(1,2499)	1:197:A:LEU:H	1:198:A:ASN:HB2	15	0.83
(1,1726)	1:186:A:LYS:HB2	1:184:A:ILE:HA	2	0.83
(1,1694)	1:137:A:TYR:HB3	1:136:A:GLU:HG3	3	0.83
(1,1516)	1:168:A:VAL:HG21	1:51:A:GLU:HG2	16	0.83
(1,1516)	1:168:A:VAL:HG22	1:51:A:GLU:HG2	16	0.83
(1,1516)	1:168:A:VAL:HG23	1:51:A:GLU:HG2	16	0.83
(1,770)	1:53:A:ILE:HD11	1:32:A:LYS:HE2	4	0.83
(1,770)	1:53:A:ILE:HD12	1:32:A:LYS:HE2	4	0.83
(1,770)	1:53:A:ILE:HD13	1:32:A:LYS:HE2	4	0.83
(1,741)	1:147:A:TYR:H	1:144:A:ILE:HG12	10	0.83
(1,736)	1:61:A:LEU:HG	1:56:A:GLU:HG2	2	0.83
(1,736)	1:61:A:LEU:HG	1:56:A:GLU:HG2	10	0.83
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG21	8	0.83
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG22	8	0.83
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG23	8	0.83
(1,564)	1:173:A:THR:HA	1:171:A:VAL:HG11	18	0.83
(1,564)	1:173:A:THR:HA	1:171:A:VAL:HG12	18	0.83
(1,564)	1:173:A:THR:HA	1:171:A:VAL:HG13	18	0.83
(1,102)	1:73:A:THR:HB	1:72:A:ILE:HG13	11	0.83
(1,42)	1:46:A:ASN:HB2	1:45:A:GLY:H	1	0.83
(1,4220)	1:77:A:SER:HB3	1:78:A:LEU:HG	8	0.82
(1,4107)	1:79:A:GLN:H	1:72:A:ILE:HG12	8	0.82
(1,3694)	1:80:A:VAL:HG21	1:79:A:GLN:HG3	6	0.82
(1,3694)	1:80:A:VAL:HG22	1:79:A:GLN:HG3	6	0.82
(1,3694)	1:80:A:VAL:HG23	1:79:A:GLN:HG3	6	0.82
(1,3531)	1:88:A:ASP:H	1:86:A:ARG:HB2	8	0.82
(1,3340)	1:18:A:ASN:H	1:15:A:LEU:HB2	10	0.82
(1,3064)	1:155:A:CYS:H	1:126:A:ILE:HG12	2	0.82
(1,2843)	1:154:A:VAL:HB	1:126:A:ILE:HG12	7	0.82
(1,2843)	1:154:A:VAL:HB	1:126:A:ILE:HG12	15	0.82
(1,2439)	1:202:A:GLY:H	1:198:A:ASN:HB3	2	0.82
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG11	13	0.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG12	13	0.82
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG13	13	0.82
(1,855)	1:192:A:LEU:H	1:50:A:VAL:HG11	11	0.82
(1,855)	1:192:A:LEU:H	1:50:A:VAL:HG12	11	0.82
(1,855)	1:192:A:LEU:H	1:50:A:VAL:HG13	11	0.82
(1,593)	1:84:A:VAL:H	1:86:A:ARG:HG2	1	0.82
(1,375)	1:112:A:ILE:HG21	1:95:A:HIS:HB3	17	0.82
(1,375)	1:112:A:ILE:HG22	1:95:A:HIS:HB3	17	0.82
(1,375)	1:112:A:ILE:HG23	1:95:A:HIS:HB3	17	0.82
(1,134)	1:137:A:TYR:HB3	1:134:A:PHE:HZ	17	0.82
(1,102)	1:73:A:THR:HB	1:72:A:ILE:HG13	16	0.82
(1,4327)	1:207:A:ARG:HD2	1:207:A:ARG:HA	5	0.81
(1,4327)	1:207:A:ARG:HD2	1:207:A:ARG:HA	10	0.81
(1,4327)	1:207:A:ARG:HD2	1:207:A:ARG:HA	17	0.81
(1,4107)	1:79:A:GLN:H	1:72:A:ILE:HG12	17	0.81
(1,4018)	1:60:A:LYS:HB2	1:60:A:LYS:HE2	14	0.81
(1,4015)	1:27:A:VAL:H	1:36:A:SER:HB2	5	0.81
(1,3937)	1:18:A:ASN:HB2	1:17:A:TYR:HB3	12	0.81
(1,3937)	1:18:A:ASN:HB2	1:17:A:TYR:HB3	19	0.81
(1,3735)	1:193:A:VAL:H	1:194:A:ASN:HB2	8	0.81
(1,3320)	1:5:A:ALA:HB1	1:4:A:LYS:HB2	11	0.81
(1,3320)	1:5:A:ALA:HB2	1:4:A:LYS:HB2	11	0.81
(1,3320)	1:5:A:ALA:HB3	1:4:A:LYS:HB2	11	0.81
(1,3114)	1:22:A:SER:H	1:24:A:TRP:HB2	5	0.81
(1,2530)	1:28:A:LYS:H	1:27:A:VAL:HG11	8	0.81
(1,2530)	1:28:A:LYS:H	1:27:A:VAL:HG12	8	0.81
(1,2530)	1:28:A:LYS:H	1:27:A:VAL:HG13	8	0.81
(1,2373)	1:147:A:TYR:H	1:176:A:ARG:HG3	19	0.81
(1,2052)	1:109:A:ARG:HB3	1:144:A:ILE:HG13	6	0.81
(1,1066)	1:144:A:ILE:HA	1:109:A:ARG:HG2	6	0.81
(1,710)	1:150:A:PRO:HB2	1:14:A:VAL:HG21	8	0.81
(1,710)	1:150:A:PRO:HB2	1:14:A:VAL:HG22	8	0.81
(1,710)	1:150:A:PRO:HB2	1:14:A:VAL:HG23	8	0.81
(1,375)	1:112:A:ILE:HG21	1:95:A:HIS:HB3	7	0.81
(1,375)	1:112:A:ILE:HG22	1:95:A:HIS:HB3	7	0.81
(1,375)	1:112:A:ILE:HG23	1:95:A:HIS:HB3	7	0.81
(1,102)	1:73:A:THR:HB	1:72:A:ILE:HG13	1	0.81
(1,102)	1:73:A:THR:HB	1:72:A:ILE:HG13	13	0.81
(1,4327)	1:207:A:ARG:HD2	1:207:A:ARG:HA	12	0.8
(1,2843)	1:154:A:VAL:HB	1:126:A:ILE:HG12	3	0.8
(1,2796)	1:203:A:ILE:HD11	1:63:A:ASP:HB2	6	0.8
(1,2796)	1:203:A:ILE:HD12	1:63:A:ASP:HB2	6	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2796)	1:203:A:ILE:HD13	1:63:A:ASP:HB2	6	0.8
(1,2629)	1:84:A:VAL:H	1:83:A:MET:HG2	3	0.8
(1,2499)	1:197:A:LEU:H	1:198:A:ASN:HB2	16	0.8
(1,2439)	1:202:A:GLY:H	1:198:A:ASN:HB3	6	0.8
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG11	19	0.8
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG12	19	0.8
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG13	19	0.8
(1,2287)	1:43:A:PHE:H	1:41:A:ARG:HB3	15	0.8
(1,1923)	1:71:A:ARG:HB3	1:78:A:LEU:HG	8	0.8
(1,1923)	1:71:A:ARG:HB3	1:78:A:LEU:HG	15	0.8
(1,1789)	1:7:A:ALA:HB1	1:8:A:GLN:HG3	9	0.8
(1,1789)	1:7:A:ALA:HB2	1:8:A:GLN:HG3	9	0.8
(1,1789)	1:7:A:ALA:HB3	1:8:A:GLN:HG3	9	0.8
(1,1726)	1:186:A:LYS:HB2	1:184:A:ILE:HA	6	0.8
(1,1343)	1:129:A:SER:HB2	1:127:A:ILE:HG13	3	0.8
(1,1310)	1:42:A:LYS:H	1:42:A:LYS:HE2	19	0.8
(1,268)	1:43:A:PHE:H	1:44:A:HIS:HA	7	0.8
(1,134)	1:137:A:TYR:HB3	1:134:A:PHE:HZ	5	0.8
(1,4366)	1:83:A:MET:HG2	1:86:A:ARG:HG2	1	0.79
(1,3598)	1:24:A:TRP:HH2	1:36:A:SER:HB3	6	0.79
(1,3202)	1:160:A:GLU:HG3	1:159:A:GLU:HA	15	0.79
(1,3114)	1:22:A:SER:H	1:24:A:TRP:HB2	17	0.79
(1,2961)	1:156:A:SER:H	1:166:A:LYS:HD2	2	0.79
(1,2961)	1:156:A:SER:H	1:166:A:LYS:HD2	15	0.79
(1,2892)	1:60:A:LYS:HB3	1:60:A:LYS:HD3	10	0.79
(1,2796)	1:203:A:ILE:HD11	1:63:A:ASP:HB2	20	0.79
(1,2796)	1:203:A:ILE:HD12	1:63:A:ASP:HB2	20	0.79
(1,2796)	1:203:A:ILE:HD13	1:63:A:ASP:HB2	20	0.79
(1,2640)	1:64:A:PHE:H	1:65:A:LEU:HD21	4	0.79
(1,2640)	1:64:A:PHE:H	1:65:A:LEU:HD22	4	0.79
(1,2640)	1:64:A:PHE:H	1:65:A:LEU:HD23	4	0.79
(1,2530)	1:28:A:LYS:H	1:27:A:VAL:HG11	19	0.79
(1,2530)	1:28:A:LYS:H	1:27:A:VAL:HG12	19	0.79
(1,2530)	1:28:A:LYS:H	1:27:A:VAL:HG13	19	0.79
(1,1923)	1:71:A:ARG:HB3	1:78:A:LEU:HG	16	0.79
(1,1683)	1:119:A:ARG:H	1:119:A:ARG:HD2	12	0.79
(1,1066)	1:144:A:ILE:HA	1:109:A:ARG:HG2	8	0.79
(1,1032)	1:204:A:LYS:HA	1:207:A:ARG:HG2	1	0.79
(1,646)	1:42:A:LYS:H	1:172:A:GLN:HG2	14	0.79
(1,593)	1:84:A:VAL:H	1:86:A:ARG:HG2	11	0.79
(1,379)	1:69:A:GLY:HA2	1:72:A:ILE:H	7	0.79
(1,379)	1:69:A:GLY:HA2	1:72:A:ILE:H	20	0.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,375)	1:112:A:ILE:HG21	1:95:A:HIS:HB3	5	0.79
(1,375)	1:112:A:ILE:HG22	1:95:A:HIS:HB3	5	0.79
(1,375)	1:112:A:ILE:HG23	1:95:A:HIS:HB3	5	0.79
(1,287)	1:26:A:VAL:H	1:25:A:LYS:HE3	1	0.79
(1,287)	1:26:A:VAL:H	1:25:A:LYS:HE3	9	0.79
(1,80)	1:106:A:ILE:HG12	1:179:A:LEU:HG	6	0.79
(1,4166)	1:99:A:GLN:HG3	1:97:A:ILE:HG21	14	0.78
(1,4166)	1:99:A:GLN:HG3	1:97:A:ILE:HG22	14	0.78
(1,4166)	1:99:A:GLN:HG3	1:97:A:ILE:HG23	14	0.78
(1,4107)	1:79:A:GLN:H	1:72:A:ILE:HG12	14	0.78
(1,4018)	1:60:A:LYS:HB2	1:60:A:LYS:HE2	10	0.78
(1,3888)	1:97:A:ILE:HG21	1:99:A:GLN:HG3	14	0.78
(1,3888)	1:97:A:ILE:HG22	1:99:A:GLN:HG3	14	0.78
(1,3888)	1:97:A:ILE:HG23	1:99:A:GLN:HG3	14	0.78
(1,3676)	1:197:A:LEU:HD11	1:193:A:VAL:HA	8	0.78
(1,3676)	1:197:A:LEU:HD12	1:193:A:VAL:HA	8	0.78
(1,3676)	1:197:A:LEU:HD13	1:193:A:VAL:HA	8	0.78
(1,3202)	1:160:A:GLU:HG3	1:159:A:GLU:HA	18	0.78
(1,3118)	1:86:A:ARG:HA	1:83:A:MET:HG2	1	0.78
(1,2961)	1:156:A:SER:H	1:166:A:LYS:HD2	6	0.78
(1,2843)	1:154:A:VAL:HB	1:126:A:ILE:HG12	6	0.78
(1,2843)	1:154:A:VAL:HB	1:126:A:ILE:HG12	16	0.78
(1,2825)	1:68:A:THR:H	1:71:A:ARG:HB2	2	0.78
(1,2499)	1:197:A:LEU:H	1:198:A:ASN:HB2	1	0.78
(1,2351)	1:80:A:VAL:H	1:81:A:TYR:HB3	20	0.78
(1,1768)	1:128:A:SER:H	1:152:A:GLY:HA2	3	0.78
(1,1463)	1:91:A:THR:HA	1:117:A:ILE:HG12	19	0.78
(1,1459)	1:71:A:ARG:HD2	1:67:A:GLN:H	6	0.78
(1,1416)	1:179:A:LEU:HA	1:184:A:ILE:HG12	19	0.78
(1,1032)	1:204:A:LYS:HA	1:207:A:ARG:HG2	6	0.78
(1,983)	1:86:A:ARG:HD3	1:86:A:ARG:HB2	8	0.78
(1,908)	1:180:A:SER:HB2	1:183:A:ILE:HB	5	0.78
(1,741)	1:147:A:TYR:H	1:144:A:ILE:HG12	20	0.78
(1,379)	1:69:A:GLY:HA2	1:72:A:ILE:H	19	0.78
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG11	6	0.78
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG12	6	0.78
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG13	6	0.78
(1,134)	1:137:A:TYR:HB3	1:134:A:PHE:HZ	12	0.78
(1,92)	1:169:A:MET:HB2	1:50:A:VAL:HG11	5	0.78
(1,92)	1:169:A:MET:HB2	1:50:A:VAL:HG12	5	0.78
(1,92)	1:169:A:MET:HB2	1:50:A:VAL:HG13	5	0.78
(1,4355)	1:29:A:THR:HB	1:33:A:ILE:HG12	18	0.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4015)	1:27:A:VAL:H	1:36:A:SER:HB2	7	0.77
(1,3598)	1:24:A:TRP:HH2	1:36:A:SER:HB3	9	0.77
(1,3598)	1:24:A:TRP:HH2	1:36:A:SER:HB3	19	0.77
(1,3344)	1:38:A:LYS:H	1:46:A:ASN:HB3	19	0.77
(1,3340)	1:18:A:ASN:H	1:15:A:LEU:HB2	9	0.77
(1,2895)	1:29:A:THR:H	1:28:A:LYS:HG3	10	0.77
(1,2843)	1:154:A:VAL:HB	1:126:A:ILE:HG12	20	0.77
(1,2351)	1:80:A:VAL:H	1:81:A:TYR:HB3	11	0.77
(1,1672)	1:79:A:GLN:HG2	1:99:A:GLN:HB2	6	0.77
(1,1642)	1:154:A:VAL:H	1:169:A:MET:HB3	4	0.77
(1,1076)	1:146:A:GLY:H	1:109:A:ARG:HD3	10	0.77
(1,1033)	1:144:A:ILE:H	1:109:A:ARG:HD3	18	0.77
(1,1033)	1:144:A:ILE:H	1:109:A:ARG:HD3	19	0.77
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG11	6	0.77
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG12	6	0.77
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG13	6	0.77
(1,736)	1:61:A:LEU:HG	1:56:A:GLU:HG2	4	0.77
(1,474)	1:144:A:ILE:HG21	1:109:A:ARG:HB3	2	0.77
(1,474)	1:144:A:ILE:HG22	1:109:A:ARG:HB3	2	0.77
(1,474)	1:144:A:ILE:HG23	1:109:A:ARG:HB3	2	0.77
(1,375)	1:112:A:ILE:HG21	1:95:A:HIS:HB3	9	0.77
(1,375)	1:112:A:ILE:HG22	1:95:A:HIS:HB3	9	0.77
(1,375)	1:112:A:ILE:HG23	1:95:A:HIS:HB3	9	0.77
(1,134)	1:137:A:TYR:HB3	1:134:A:PHE:HZ	18	0.77
(1,4242)	1:130:A:LYS:HD2	1:10:A:THR:H	2	0.76
(1,4229)	1:74:A:TRP:H	1:75:A:ASP:HB3	12	0.76
(1,4107)	1:79:A:GLN:H	1:72:A:ILE:HG12	3	0.76
(1,3937)	1:18:A:ASN:HB2	1:17:A:TYR:HB3	11	0.76
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG21	8	0.76
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG22	8	0.76
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG23	8	0.76
(1,3340)	1:18:A:ASN:H	1:15:A:LEU:HB2	4	0.76
(1,3118)	1:86:A:ARG:HA	1:83:A:MET:HG2	8	0.76
(1,2866)	1:147:A:TYR:H	1:176:A:ARG:HB2	5	0.76
(1,2747)	1:91:A:THR:HG21	1:4:A:LYS:HD3	3	0.76
(1,2747)	1:91:A:THR:HG22	1:4:A:LYS:HD3	3	0.76
(1,2747)	1:91:A:THR:HG23	1:4:A:LYS:HD3	3	0.76
(1,2747)	1:91:A:THR:HG21	1:4:A:LYS:HD3	11	0.76
(1,2747)	1:91:A:THR:HG22	1:4:A:LYS:HD3	11	0.76
(1,2747)	1:91:A:THR:HG23	1:4:A:LYS:HD3	11	0.76
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG11	20	0.76
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG12	20	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG13	20	0.76
(1,2052)	1:109:A:ARG:HB3	1:144:A:ILE:HG13	16	0.76
(1,1923)	1:71:A:ARG:HB3	1:78:A:LEU:HG	6	0.76
(1,1923)	1:71:A:ARG:HB3	1:78:A:LEU:HG	7	0.76
(1,1874)	1:153:A:PHE:HB2	1:65:A:LEU:HD11	1	0.76
(1,1874)	1:153:A:PHE:HB2	1:65:A:LEU:HD12	1	0.76
(1,1874)	1:153:A:PHE:HB2	1:65:A:LEU:HD13	1	0.76
(1,1768)	1:128:A:SER:H	1:152:A:GLY:HA2	18	0.76
(1,1683)	1:119:A:ARG:H	1:119:A:ARG:HD2	7	0.76
(1,1642)	1:154:A:VAL:H	1:169:A:MET:HB3	5	0.76
(1,1516)	1:168:A:VAL:HG21	1:51:A:GLU:HG2	2	0.76
(1,1516)	1:168:A:VAL:HG22	1:51:A:GLU:HG2	2	0.76
(1,1516)	1:168:A:VAL:HG23	1:51:A:GLU:HG2	2	0.76
(1,1416)	1:179:A:LEU:HA	1:184:A:ILE:HG12	4	0.76
(1,375)	1:112:A:ILE:HG21	1:95:A:HIS:HB3	10	0.76
(1,375)	1:112:A:ILE:HG22	1:95:A:HIS:HB3	10	0.76
(1,375)	1:112:A:ILE:HG23	1:95:A:HIS:HB3	10	0.76
(1,320)	1:25:A:LYS:H	1:25:A:LYS:HE3	15	0.76
(1,260)	1:145:A:ARG:HG3	1:147:A:TYR:HA	14	0.76
(1,134)	1:137:A:TYR:HB3	1:134:A:PHE:HZ	13	0.76
(1,4229)	1:74:A:TRP:H	1:75:A:ASP:HB3	17	0.75
(1,4107)	1:79:A:GLN:H	1:72:A:ILE:HG12	2	0.75
(1,4107)	1:79:A:GLN:H	1:72:A:ILE:HG12	5	0.75
(1,4028)	1:72:A:ILE:HG13	1:70:A:ASP:H	14	0.75
(1,3896)	1:130:A:LYS:H	1:148:A:ASN:HB3	8	0.75
(1,3598)	1:24:A:TRP:HH2	1:36:A:SER:HB3	11	0.75
(1,3560)	1:198:A:ASN:H	1:194:A:ASN:HB3	12	0.75
(1,3531)	1:88:A:ASP:H	1:86:A:ARG:HB2	15	0.75
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG21	17	0.75
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG22	17	0.75
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG23	17	0.75
(1,3202)	1:160:A:GLU:HG3	1:159:A:GLU:HA	4	0.75
(1,3202)	1:160:A:GLU:HG3	1:159:A:GLU:HA	8	0.75
(1,3202)	1:160:A:GLU:HG3	1:159:A:GLU:HA	20	0.75
(1,3108)	1:204:A:LYS:HA	1:204:A:LYS:HD3	20	0.75
(1,2843)	1:154:A:VAL:HB	1:126:A:ILE:HG12	14	0.75
(1,2640)	1:64:A:PHE:H	1:65:A:LEU:HD21	6	0.75
(1,2640)	1:64:A:PHE:H	1:65:A:LEU:HD22	6	0.75
(1,2640)	1:64:A:PHE:H	1:65:A:LEU:HD23	6	0.75
(1,2427)	1:129:A:SER:HB3	1:152:A:GLY:HA3	6	0.75
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG11	4	0.75
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG12	4	0.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG13	4	0.75
(1,2232)	1:71:A:ARG:HD3	1:96:A:THR:HG21	13	0.75
(1,2232)	1:71:A:ARG:HD3	1:96:A:THR:HG22	13	0.75
(1,2232)	1:71:A:ARG:HD3	1:96:A:THR:HG23	13	0.75
(1,1997)	1:33:A:ILE:HG12	1:193:A:VAL:HA	19	0.75
(1,550)	1:13:A:GLU:H	1:12:A:GLN:HG2	19	0.75
(1,375)	1:112:A:ILE:HG21	1:95:A:HIS:HB3	20	0.75
(1,375)	1:112:A:ILE:HG22	1:95:A:HIS:HB3	20	0.75
(1,375)	1:112:A:ILE:HG23	1:95:A:HIS:HB3	20	0.75
(1,4229)	1:74:A:TRP:H	1:75:A:ASP:HB3	5	0.74
(1,4028)	1:72:A:ILE:HG13	1:70:A:ASP:H	15	0.74
(1,3778)	1:76:A:LYS:HE3	1:76:A:LYS:HG3	1	0.74
(1,3580)	1:137:A:TYR:HB3	1:112:A:ILE:HG12	2	0.74
(1,3473)	1:1:A:MET:HA	1:4:A:LYS:HB3	17	0.74
(1,3340)	1:18:A:ASN:H	1:15:A:LEU:HB2	7	0.74
(1,3340)	1:18:A:ASN:H	1:15:A:LEU:HB2	15	0.74
(1,3202)	1:160:A:GLU:HG3	1:159:A:GLU:HA	16	0.74
(1,2984)	1:166:A:LYS:HG2	1:51:A:GLU:HG2	9	0.74
(1,2961)	1:156:A:SER:H	1:166:A:LYS:HD2	4	0.74
(1,2892)	1:60:A:LYS:HB3	1:60:A:LYS:HD3	17	0.74
(1,2640)	1:64:A:PHE:H	1:65:A:LEU:HD21	3	0.74
(1,2640)	1:64:A:PHE:H	1:65:A:LEU:HD22	3	0.74
(1,2640)	1:64:A:PHE:H	1:65:A:LEU:HD23	3	0.74
(1,2366)	1:22:A:SER:H	1:38:A:LYS:HD2	3	0.74
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG11	7	0.74
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG12	7	0.74
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG13	7	0.74
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG11	16	0.74
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG12	16	0.74
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG13	16	0.74
(1,2052)	1:109:A:ARG:HB3	1:144:A:ILE:HG13	12	0.74
(1,1865)	1:132:A:VAL:HG11	1:112:A:ILE:HG21	18	0.74
(1,1865)	1:132:A:VAL:HG11	1:112:A:ILE:HG22	18	0.74
(1,1865)	1:132:A:VAL:HG11	1:112:A:ILE:HG23	18	0.74
(1,1865)	1:132:A:VAL:HG12	1:112:A:ILE:HG21	18	0.74
(1,1865)	1:132:A:VAL:HG12	1:112:A:ILE:HG22	18	0.74
(1,1865)	1:132:A:VAL:HG12	1:112:A:ILE:HG23	18	0.74
(1,1865)	1:132:A:VAL:HG13	1:112:A:ILE:HG21	18	0.74
(1,1865)	1:132:A:VAL:HG13	1:112:A:ILE:HG22	18	0.74
(1,1865)	1:132:A:VAL:HG13	1:112:A:ILE:HG23	18	0.74
(1,1768)	1:128:A:SER:H	1:152:A:GLY:HA2	14	0.74
(1,1516)	1:168:A:VAL:HG21	1:51:A:GLU:HG2	1	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1516)	1:168:A:VAL:HG22	1:51:A:GLU:HG2	1	0.74
(1,1516)	1:168:A:VAL:HG23	1:51:A:GLU:HG2	1	0.74
(1,1489)	1:175:A:MET:H	1:109:A:ARG:HD3	13	0.74
(1,1199)	1:192:A:LEU:HD11	1:50:A:VAL:HB	20	0.74
(1,1199)	1:192:A:LEU:HD12	1:50:A:VAL:HB	20	0.74
(1,1199)	1:192:A:LEU:HD13	1:50:A:VAL:HB	20	0.74
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG11	9	0.74
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG12	9	0.74
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG13	9	0.74
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG11	13	0.74
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG12	13	0.74
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG13	13	0.74
(1,564)	1:173:A:THR:HA	1:171:A:VAL:HG11	8	0.74
(1,564)	1:173:A:THR:HA	1:171:A:VAL:HG12	8	0.74
(1,564)	1:173:A:THR:HA	1:171:A:VAL:HG13	8	0.74
(1,4229)	1:74:A:TRP:H	1:75:A:ASP:HB3	14	0.73
(1,4220)	1:77:A:SER:HB3	1:78:A:LEU:HG	10	0.73
(1,4070)	1:42:A:LYS:HD3	1:42:A:LYS:HB3	1	0.73
(1,4067)	1:168:A:VAL:HG21	1:51:A:GLU:HB3	1	0.73
(1,4067)	1:168:A:VAL:HG22	1:51:A:GLU:HB3	1	0.73
(1,4067)	1:168:A:VAL:HG23	1:51:A:GLU:HB3	1	0.73
(1,4018)	1:60:A:LYS:HB2	1:60:A:LYS:HE2	15	0.73
(1,3937)	1:18:A:ASN:HB2	1:17:A:TYR:HB3	18	0.73
(1,3862)	1:109:A:ARG:HG2	1:144:A:ILE:HG12	7	0.73
(1,3861)	1:54:A:ILE:HB	1:55:A:PRO:HD3	3	0.73
(1,3844)	1:110:A:ASP:H	1:109:A:ARG:HD3	11	0.73
(1,3623)	1:13:A:GLU:H	1:13:A:GLU:HG2	13	0.73
(1,3429)	1:130:A:LYS:HE2	1:10:A:THR:HG21	18	0.73
(1,3429)	1:130:A:LYS:HE2	1:10:A:THR:HG22	18	0.73
(1,3429)	1:130:A:LYS:HE2	1:10:A:THR:HG23	18	0.73
(1,3342)	1:180:A:SER:HB3	1:183:A:ILE:HG13	3	0.73
(1,3040)	1:173:A:THR:HA	1:172:A:GLN:HB3	1	0.73
(1,2961)	1:156:A:SER:H	1:166:A:LYS:HD2	18	0.73
(1,2892)	1:60:A:LYS:HB3	1:60:A:LYS:HD3	8	0.73
(1,2848)	1:115:A:VAL:HG11	1:114:A:LEU:HB3	10	0.73
(1,2848)	1:115:A:VAL:HG12	1:114:A:LEU:HB3	10	0.73
(1,2848)	1:115:A:VAL:HG13	1:114:A:LEU:HB3	10	0.73
(1,2848)	1:115:A:VAL:HG11	1:114:A:LEU:HB3	20	0.73
(1,2848)	1:115:A:VAL:HG12	1:114:A:LEU:HB3	20	0.73
(1,2848)	1:115:A:VAL:HG13	1:114:A:LEU:HB3	20	0.73
(1,2843)	1:154:A:VAL:HB	1:126:A:ILE:HG12	1	0.73
(1,2839)	1:143:A:TYR:HB2	1:139:A:PRO:HB3	4	0.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2640)	1:64:A:PHE:H	1:65:A:LEU:HD21	1	0.73
(1,2640)	1:64:A:PHE:H	1:65:A:LEU:HD22	1	0.73
(1,2640)	1:64:A:PHE:H	1:65:A:LEU:HD23	1	0.73
(1,2638)	1:176:A:ARG:H	1:174:A:GLU:HB3	2	0.73
(1,2499)	1:197:A:LEU:H	1:198:A:ASN:HB2	5	0.73
(1,1517)	1:113:A:ASP:H	1:94:A:CYS:HB2	15	0.73
(1,1310)	1:42:A:LYS:H	1:42:A:LYS:HE2	5	0.73
(1,1076)	1:146:A:GLY:H	1:109:A:ARG:HD3	15	0.73
(1,741)	1:147:A:TYR:H	1:144:A:ILE:HG12	14	0.73
(1,736)	1:61:A:LEU:HG	1:56:A:GLU:HG2	6	0.73
(1,691)	1:71:A:ARG:HB2	1:68:A:THR:H	9	0.73
(1,573)	1:24:A:TRP:HZ3	1:24:A:TRP:HB3	16	0.73
(1,475)	1:201:A:ASP:HA	1:204:A:LYS:HD2	17	0.73
(1,195)	1:127:A:ILE:HD11	1:67:A:GLN:HG3	8	0.73
(1,195)	1:127:A:ILE:HD12	1:67:A:GLN:HG3	8	0.73
(1,195)	1:127:A:ILE:HD13	1:67:A:GLN:HG3	8	0.73
(1,4343)	1:193:A:VAL:HG11	1:194:A:ASN:HB2	12	0.72
(1,4343)	1:193:A:VAL:HG12	1:194:A:ASN:HB2	12	0.72
(1,4343)	1:193:A:VAL:HG13	1:194:A:ASN:HB2	12	0.72
(1,4229)	1:74:A:TRP:H	1:75:A:ASP:HB3	8	0.72
(1,4189)	1:169:A:MET:HG3	1:153:A:PHE:H	17	0.72
(1,4107)	1:79:A:GLN:H	1:72:A:ILE:HG12	7	0.72
(1,3896)	1:130:A:LYS:H	1:148:A:ASN:HB3	7	0.72
(1,3598)	1:24:A:TRP:HH2	1:36:A:SER:HB3	1	0.72
(1,3531)	1:88:A:ASP:H	1:86:A:ARG:HB2	14	0.72
(1,3118)	1:86:A:ARG:HA	1:83:A:MET:HG2	3	0.72
(1,2866)	1:147:A:TYR:H	1:176:A:ARG:HB2	3	0.72
(1,2843)	1:154:A:VAL:HB	1:126:A:ILE:HG12	12	0.72
(1,2640)	1:64:A:PHE:H	1:65:A:LEU:HD21	2	0.72
(1,2640)	1:64:A:PHE:H	1:65:A:LEU:HD22	2	0.72
(1,2640)	1:64:A:PHE:H	1:65:A:LEU:HD23	2	0.72
(1,2629)	1:84:A:VAL:H	1:83:A:MET:HG2	8	0.72
(1,2366)	1:22:A:SER:H	1:38:A:LYS:HD2	7	0.72
(1,2366)	1:22:A:SER:H	1:38:A:LYS:HD2	19	0.72
(1,2009)	1:182:A:SER:HB2	1:183:A:ILE:HD11	11	0.72
(1,2009)	1:182:A:SER:HB2	1:183:A:ILE:HD12	11	0.72
(1,2009)	1:182:A:SER:HB2	1:183:A:ILE:HD13	11	0.72
(1,1517)	1:113:A:ASP:H	1:94:A:CYS:HB2	16	0.72
(1,1302)	1:198:A:ASN:H	1:76:A:LYS:HG3	1	0.72
(1,1199)	1:192:A:LEU:HD11	1:50:A:VAL:HB	5	0.72
(1,1199)	1:192:A:LEU:HD12	1:50:A:VAL:HB	5	0.72
(1,1199)	1:192:A:LEU:HD13	1:50:A:VAL:HB	5	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1179)	1:160:A:GLU:H	1:158:A:MET:HG2	7	0.72
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG11	11	0.72
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG12	11	0.72
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG13	11	0.72
(1,550)	1:13:A:GLU:H	1:12:A:GLN:HG2	5	0.72
(1,539)	1:206:A:HIS:H	1:202:A:GLY:HA3	12	0.72
(1,534)	1:71:A:ARG:HD2	1:65:A:LEU:HA	13	0.72
(1,474)	1:144:A:ILE:HG21	1:109:A:ARG:HB3	18	0.72
(1,474)	1:144:A:ILE:HG22	1:109:A:ARG:HB3	18	0.72
(1,474)	1:144:A:ILE:HG23	1:109:A:ARG:HB3	18	0.72
(1,227)	1:168:A:VAL:HG21	1:166:A:LYS:HE3	15	0.72
(1,227)	1:168:A:VAL:HG22	1:166:A:LYS:HE3	15	0.72
(1,227)	1:168:A:VAL:HG23	1:166:A:LYS:HE3	15	0.72
(1,102)	1:73:A:THR:HB	1:72:A:ILE:HG13	15	0.72
(1,102)	1:73:A:THR:HB	1:72:A:ILE:HG13	20	0.72
(1,42)	1:46:A:ASN:HB2	1:45:A:GLY:H	16	0.72
(1,4367)	1:68:A:THR:HG21	1:83:A:MET:HG3	19	0.71
(1,4367)	1:68:A:THR:HG22	1:83:A:MET:HG3	19	0.71
(1,4367)	1:68:A:THR:HG23	1:83:A:MET:HG3	19	0.71
(1,4229)	1:74:A:TRP:H	1:75:A:ASP:HB3	4	0.71
(1,4228)	1:170:A:PHE:H	1:171:A:VAL:HG11	16	0.71
(1,4228)	1:170:A:PHE:H	1:171:A:VAL:HG12	16	0.71
(1,4228)	1:170:A:PHE:H	1:171:A:VAL:HG13	16	0.71
(1,4018)	1:60:A:LYS:HB2	1:60:A:LYS:HE2	17	0.71
(1,3896)	1:130:A:LYS:H	1:148:A:ASN:HB3	15	0.71
(1,3344)	1:38:A:LYS:H	1:46:A:ASN:HB3	11	0.71
(1,3344)	1:38:A:LYS:H	1:46:A:ASN:HB3	12	0.71
(1,2843)	1:154:A:VAL:HB	1:126:A:ILE:HG12	17	0.71
(1,2624)	1:91:A:THR:H	1:87:A:ILE:HG13	17	0.71
(1,2427)	1:129:A:SER:HB3	1:152:A:GLY:HA3	17	0.71
(1,1642)	1:154:A:VAL:H	1:169:A:MET:HB3	9	0.71
(1,1517)	1:113:A:ASP:H	1:94:A:CYS:HB2	2	0.71
(1,1508)	1:129:A:SER:HB3	1:113:A:ASP:H	18	0.71
(1,1416)	1:179:A:LEU:HA	1:184:A:ILE:HG12	15	0.71
(1,1179)	1:160:A:GLU:H	1:158:A:MET:HG2	14	0.71
(1,1033)	1:144:A:ILE:H	1:109:A:ARG:HD3	13	0.71
(1,889)	1:125:A:ASN:H	1:155:A:CYS:HB2	20	0.71
(1,216)	1:76:A:LYS:H	1:76:A:LYS:HD2	4	0.71
(1,4107)	1:79:A:GLN:H	1:72:A:ILE:HG12	20	0.7
(1,3862)	1:109:A:ARG:HG2	1:144:A:ILE:HG12	8	0.7
(1,3344)	1:38:A:LYS:H	1:46:A:ASN:HB3	17	0.7
(1,3340)	1:18:A:ASN:H	1:15:A:LEU:HB2	1	0.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3202)	1:160:A:GLU:HG3	1:159:A:GLU:HA	3	0.7
(1,3202)	1:160:A:GLU:HG3	1:159:A:GLU:HA	7	0.7
(1,2796)	1:203:A:ILE:HD11	1:63:A:ASP:HB2	14	0.7
(1,2796)	1:203:A:ILE:HD12	1:63:A:ASP:HB2	14	0.7
(1,2796)	1:203:A:ILE:HD13	1:63:A:ASP:HB2	14	0.7
(1,2689)	1:105:A:SER:HB3	1:102:A:ALA:HB1	19	0.7
(1,2689)	1:105:A:SER:HB3	1:102:A:ALA:HB2	19	0.7
(1,2689)	1:105:A:SER:HB3	1:102:A:ALA:HB3	19	0.7
(1,2613)	1:198:A:ASN:HB2	1:197:A:LEU:HB2	6	0.7
(1,2335)	1:7:A:ALA:H	1:8:A:GLN:HG3	20	0.7
(1,1874)	1:153:A:PHE:HB2	1:65:A:LEU:HD11	6	0.7
(1,1874)	1:153:A:PHE:HB2	1:65:A:LEU:HD12	6	0.7
(1,1874)	1:153:A:PHE:HB2	1:65:A:LEU:HD13	6	0.7
(1,1489)	1:175:A:MET:H	1:109:A:ARG:HD3	14	0.7
(1,983)	1:86:A:ARG:HD3	1:86:A:ARG:HB2	4	0.7
(1,983)	1:86:A:ARG:HD3	1:86:A:ARG:HB2	10	0.7
(1,851)	1:103:A:VAL:HG21	1:102:A:ALA:HB1	16	0.7
(1,851)	1:103:A:VAL:HG21	1:102:A:ALA:HB2	16	0.7
(1,851)	1:103:A:VAL:HG21	1:102:A:ALA:HB3	16	0.7
(1,851)	1:103:A:VAL:HG22	1:102:A:ALA:HB1	16	0.7
(1,851)	1:103:A:VAL:HG22	1:102:A:ALA:HB2	16	0.7
(1,851)	1:103:A:VAL:HG22	1:102:A:ALA:HB3	16	0.7
(1,851)	1:103:A:VAL:HG23	1:102:A:ALA:HB1	16	0.7
(1,851)	1:103:A:VAL:HG23	1:102:A:ALA:HB2	16	0.7
(1,851)	1:103:A:VAL:HG23	1:102:A:ALA:HB3	16	0.7
(1,375)	1:112:A:ILE:HG21	1:95:A:HIS:HB3	1	0.7
(1,375)	1:112:A:ILE:HG22	1:95:A:HIS:HB3	1	0.7
(1,375)	1:112:A:ILE:HG23	1:95:A:HIS:HB3	1	0.7
(1,201)	1:91:A:THR:H	1:89:A:SER:HB2	2	0.7
(1,134)	1:137:A:TYR:HB3	1:134:A:PHE:HZ	7	0.7
(1,4367)	1:68:A:THR:HG21	1:83:A:MET:HG3	13	0.69
(1,4367)	1:68:A:THR:HG22	1:83:A:MET:HG3	13	0.69
(1,4367)	1:68:A:THR:HG23	1:83:A:MET:HG3	13	0.69
(1,4220)	1:77:A:SER:HB3	1:78:A:LEU:HG	15	0.69
(1,4107)	1:79:A:GLN:H	1:72:A:ILE:HG12	9	0.69
(1,4070)	1:42:A:LYS:HD3	1:42:A:LYS:HB3	4	0.69
(1,4018)	1:60:A:LYS:HB2	1:60:A:LYS:HE2	8	0.69
(1,3862)	1:109:A:ARG:HG2	1:144:A:ILE:HG12	4	0.69
(1,3572)	1:184:A:ILE:H	1:186:A:LYS:HE3	18	0.69
(1,3405)	1:79:A:GLN:HB3	1:80:A:VAL:HG21	13	0.69
(1,3405)	1:79:A:GLN:HB3	1:80:A:VAL:HG22	13	0.69
(1,3405)	1:79:A:GLN:HB3	1:80:A:VAL:HG23	13	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2843)	1:154:A:VAL:HB	1:126:A:ILE:HG12	9	0.69
(1,2624)	1:91:A:THR:H	1:87:A:ILE:HG13	7	0.69
(1,2285)	1:86:A:ARG:HD3	1:86:A:ARG:HA	12	0.69
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG21	18	0.69
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG22	18	0.69
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG23	18	0.69
(1,983)	1:86:A:ARG:HD3	1:86:A:ARG:HB2	3	0.69
(1,550)	1:13:A:GLU:H	1:12:A:GLN:HG2	15	0.69
(1,474)	1:144:A:ILE:HG21	1:109:A:ARG:HB3	19	0.69
(1,474)	1:144:A:ILE:HG22	1:109:A:ARG:HB3	19	0.69
(1,474)	1:144:A:ILE:HG23	1:109:A:ARG:HB3	19	0.69
(1,227)	1:168:A:VAL:HG21	1:166:A:LYS:HE3	5	0.69
(1,227)	1:168:A:VAL:HG22	1:166:A:LYS:HE3	5	0.69
(1,227)	1:168:A:VAL:HG23	1:166:A:LYS:HE3	5	0.69
(1,227)	1:168:A:VAL:HG21	1:166:A:LYS:HE3	20	0.69
(1,227)	1:168:A:VAL:HG22	1:166:A:LYS:HE3	20	0.69
(1,227)	1:168:A:VAL:HG23	1:166:A:LYS:HE3	20	0.69
(1,19)	1:106:A:ILE:HG21	1:109:A:ARG:HD2	7	0.69
(1,19)	1:106:A:ILE:HG22	1:109:A:ARG:HD2	7	0.69
(1,19)	1:106:A:ILE:HG23	1:109:A:ARG:HD2	7	0.69
(1,4383)	1:137:A:TYR:HB3	1:136:A:GLU:HB3	10	0.68
(1,3844)	1:110:A:ASP:H	1:109:A:ARG:HD3	15	0.68
(1,3632)	1:137:A:TYR:H	1:136:A:GLU:HG3	10	0.68
(1,2961)	1:156:A:SER:H	1:166:A:LYS:HD2	19	0.68
(1,2848)	1:115:A:VAL:HG11	1:114:A:LEU:HB3	8	0.68
(1,2848)	1:115:A:VAL:HG12	1:114:A:LEU:HB3	8	0.68
(1,2848)	1:115:A:VAL:HG13	1:114:A:LEU:HB3	8	0.68
(1,2848)	1:115:A:VAL:HG11	1:114:A:LEU:HB3	11	0.68
(1,2848)	1:115:A:VAL:HG12	1:114:A:LEU:HB3	11	0.68
(1,2848)	1:115:A:VAL:HG13	1:114:A:LEU:HB3	11	0.68
(1,2848)	1:115:A:VAL:HG11	1:114:A:LEU:HB3	17	0.68
(1,2848)	1:115:A:VAL:HG12	1:114:A:LEU:HB3	17	0.68
(1,2848)	1:115:A:VAL:HG13	1:114:A:LEU:HB3	17	0.68
(1,2843)	1:154:A:VAL:HB	1:126:A:ILE:HG12	18	0.68
(1,2525)	1:33:A:ILE:HD11	1:50:A:VAL:HG11	4	0.68
(1,2525)	1:33:A:ILE:HD11	1:50:A:VAL:HG12	4	0.68
(1,2525)	1:33:A:ILE:HD11	1:50:A:VAL:HG13	4	0.68
(1,2525)	1:33:A:ILE:HD12	1:50:A:VAL:HG11	4	0.68
(1,2525)	1:33:A:ILE:HD12	1:50:A:VAL:HG12	4	0.68
(1,2525)	1:33:A:ILE:HD12	1:50:A:VAL:HG13	4	0.68
(1,2525)	1:33:A:ILE:HD13	1:50:A:VAL:HG11	4	0.68
(1,2525)	1:33:A:ILE:HD13	1:50:A:VAL:HG12	4	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2525)	1:33:A:ILE:HD13	1:50:A:VAL:HG13	4	0.68
(1,2116)	1:54:A:ILE:HD11	1:200:A:LYS:HE3	10	0.68
(1,2116)	1:54:A:ILE:HD12	1:200:A:LYS:HE3	10	0.68
(1,2116)	1:54:A:ILE:HD13	1:200:A:LYS:HE3	10	0.68
(1,2052)	1:109:A:ARG:HB3	1:144:A:ILE:HG13	10	0.68
(1,1997)	1:33:A:ILE:HG12	1:193:A:VAL:HA	15	0.68
(1,1463)	1:91:A:THR:HA	1:117:A:ILE:HG12	1	0.68
(1,1405)	1:42:A:LYS:HB3	1:43:A:PHE:HB2	7	0.68
(1,1207)	1:90:A:ASP:H	1:4:A:LYS:HE3	11	0.68
(1,983)	1:86:A:ARG:HD3	1:86:A:ARG:HB2	18	0.68
(1,969)	1:100:A:SER:HB3	1:101:A:PHE:HA	7	0.68
(1,833)	1:60:A:LYS:HE3	1:203:A:ILE:HD11	9	0.68
(1,833)	1:60:A:LYS:HE3	1:203:A:ILE:HD12	9	0.68
(1,833)	1:60:A:LYS:HE3	1:203:A:ILE:HD13	9	0.68
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG11	7	0.68
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG12	7	0.68
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG13	7	0.68
(1,532)	1:194:A:ASN:HB3	1:76:A:LYS:HG3	1	0.68
(1,227)	1:168:A:VAL:HG21	1:166:A:LYS:HE3	1	0.68
(1,227)	1:168:A:VAL:HG22	1:166:A:LYS:HE3	1	0.68
(1,227)	1:168:A:VAL:HG23	1:166:A:LYS:HE3	1	0.68
(1,3572)	1:184:A:ILE:H	1:186:A:LYS:HE3	5	0.67
(1,3525)	1:68:A:THR:HG21	1:69:A:GLY:HA3	8	0.67
(1,3525)	1:68:A:THR:HG22	1:69:A:GLY:HA3	8	0.67
(1,3525)	1:68:A:THR:HG23	1:69:A:GLY:HA3	8	0.67
(1,3344)	1:38:A:LYS:H	1:46:A:ASN:HB3	1	0.67
(1,3340)	1:18:A:ASN:H	1:15:A:LEU:HB2	12	0.67
(1,2848)	1:115:A:VAL:HG11	1:114:A:LEU:HB3	2	0.67
(1,2848)	1:115:A:VAL:HG12	1:114:A:LEU:HB3	2	0.67
(1,2848)	1:115:A:VAL:HG13	1:114:A:LEU:HB3	2	0.67
(1,2848)	1:115:A:VAL:HG11	1:114:A:LEU:HB3	12	0.67
(1,2848)	1:115:A:VAL:HG12	1:114:A:LEU:HB3	12	0.67
(1,2848)	1:115:A:VAL:HG13	1:114:A:LEU:HB3	12	0.67
(1,2848)	1:115:A:VAL:HG11	1:114:A:LEU:HB3	19	0.67
(1,2848)	1:115:A:VAL:HG12	1:114:A:LEU:HB3	19	0.67
(1,2848)	1:115:A:VAL:HG13	1:114:A:LEU:HB3	19	0.67
(1,2796)	1:203:A:ILE:HD11	1:63:A:ASP:HB2	3	0.67
(1,2796)	1:203:A:ILE:HD12	1:63:A:ASP:HB2	3	0.67
(1,2796)	1:203:A:ILE:HD13	1:63:A:ASP:HB2	3	0.67
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG11	5	0.67
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG12	5	0.67
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG13	5	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG11	6	0.67
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG12	6	0.67
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG13	6	0.67
(1,2285)	1:86:A:ARG:HD3	1:86:A:ARG:HA	9	0.67
(1,2285)	1:86:A:ARG:HD3	1:86:A:ARG:HA	13	0.67
(1,2252)	1:6:A:ILE:H	1:8:A:GLN:HG3	20	0.67
(1,1310)	1:42:A:LYS:H	1:42:A:LYS:HE2	17	0.67
(1,889)	1:125:A:ASN:H	1:155:A:CYS:HB2	17	0.67
(1,550)	1:13:A:GLU:H	1:12:A:GLN:HG2	7	0.67
(1,382)	1:150:A:PRO:HB2	1:13:A:GLU:HB2	4	0.67
(1,375)	1:112:A:ILE:HG21	1:95:A:HIS:HB3	15	0.67
(1,375)	1:112:A:ILE:HG22	1:95:A:HIS:HB3	15	0.67
(1,375)	1:112:A:ILE:HG23	1:95:A:HIS:HB3	15	0.67
(1,335)	1:14:A:VAL:H	1:13:A:GLU:HG2	3	0.67
(1,118)	1:25:A:LYS:H	1:25:A:LYS:HG3	8	0.67
(1,4229)	1:74:A:TRP:H	1:75:A:ASP:HB3	7	0.66
(1,4229)	1:74:A:TRP:H	1:75:A:ASP:HB3	10	0.66
(1,4220)	1:77:A:SER:HB3	1:78:A:LEU:HG	7	0.66
(1,4107)	1:79:A:GLN:H	1:72:A:ILE:HG12	19	0.66
(1,4087)	1:207:A:ARG:H	1:204:A:LYS:HB3	5	0.66
(1,4086)	1:54:A:ILE:H	1:200:A:LYS:HE3	14	0.66
(1,4015)	1:27:A:VAL:H	1:36:A:SER:HB2	3	0.66
(1,4015)	1:27:A:VAL:H	1:36:A:SER:HB2	20	0.66
(1,3975)	1:208:A:THR:H	1:204:A:LYS:HB3	20	0.66
(1,3778)	1:76:A:LYS:HE3	1:76:A:LYS:HG3	15	0.66
(1,3572)	1:184:A:ILE:H	1:186:A:LYS:HE3	19	0.66
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG21	14	0.66
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG22	14	0.66
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG23	14	0.66
(1,3340)	1:18:A:ASN:H	1:15:A:LEU:HB2	6	0.66
(1,3340)	1:18:A:ASN:H	1:15:A:LEU:HB2	17	0.66
(1,3340)	1:18:A:ASN:H	1:15:A:LEU:HB2	20	0.66
(1,3108)	1:204:A:LYS:HA	1:204:A:LYS:HD3	11	0.66
(1,2984)	1:166:A:LYS:HG2	1:51:A:GLU:HG2	3	0.66
(1,2848)	1:115:A:VAL:HG11	1:114:A:LEU:HB3	5	0.66
(1,2848)	1:115:A:VAL:HG12	1:114:A:LEU:HB3	5	0.66
(1,2848)	1:115:A:VAL:HG13	1:114:A:LEU:HB3	5	0.66
(1,2848)	1:115:A:VAL:HG11	1:114:A:LEU:HB3	7	0.66
(1,2848)	1:115:A:VAL:HG12	1:114:A:LEU:HB3	7	0.66
(1,2848)	1:115:A:VAL:HG13	1:114:A:LEU:HB3	7	0.66
(1,2848)	1:115:A:VAL:HG11	1:114:A:LEU:HB3	14	0.66
(1,2848)	1:115:A:VAL:HG12	1:114:A:LEU:HB3	14	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2848)	1:115:A:VAL:HG13	1:114:A:LEU:HB3	14	0.66
(1,2629)	1:84:A:VAL:H	1:83:A:MET:HG2	18	0.66
(1,2624)	1:91:A:THR:H	1:87:A:ILE:HG13	10	0.66
(1,2530)	1:28:A:LYS:H	1:27:A:VAL:HG11	16	0.66
(1,2530)	1:28:A:LYS:H	1:27:A:VAL:HG12	16	0.66
(1,2530)	1:28:A:LYS:H	1:27:A:VAL:HG13	16	0.66
(1,2014)	1:18:A:ASN:HB2	1:15:A:LEU:HB2	4	0.66
(1,2009)	1:182:A:SER:HB2	1:183:A:ILE:HD11	9	0.66
(1,2009)	1:182:A:SER:HB2	1:183:A:ILE:HD12	9	0.66
(1,2009)	1:182:A:SER:HB2	1:183:A:ILE:HD13	9	0.66
(1,1997)	1:33:A:ILE:HG12	1:193:A:VAL:HA	14	0.66
(1,1756)	1:194:A:ASN:H	1:193:A:VAL:HG11	19	0.66
(1,1756)	1:194:A:ASN:H	1:193:A:VAL:HG12	19	0.66
(1,1756)	1:194:A:ASN:H	1:193:A:VAL:HG13	19	0.66
(1,1405)	1:42:A:LYS:HB3	1:43:A:PHE:HB2	4	0.66
(1,1310)	1:42:A:LYS:H	1:42:A:LYS:HE2	18	0.66
(1,969)	1:100:A:SER:HB3	1:101:A:PHE:HA	11	0.66
(1,889)	1:125:A:ASN:H	1:155:A:CYS:HB2	18	0.66
(1,539)	1:206:A:HIS:H	1:202:A:GLY:HA3	10	0.66
(1,446)	1:204:A:LYS:HB2	1:204:A:LYS:HD2	15	0.66
(1,365)	1:145:A:ARG:HG3	1:112:A:ILE:HG13	3	0.66
(1,359)	1:34:A:THR:HB	1:26:A:VAL:HG11	6	0.66
(1,359)	1:34:A:THR:HB	1:26:A:VAL:HG12	6	0.66
(1,359)	1:34:A:THR:HB	1:26:A:VAL:HG13	6	0.66
(1,335)	1:14:A:VAL:H	1:13:A:GLU:HG2	6	0.66
(1,227)	1:168:A:VAL:HG21	1:166:A:LYS:HE3	7	0.66
(1,227)	1:168:A:VAL:HG22	1:166:A:LYS:HE3	7	0.66
(1,227)	1:168:A:VAL:HG23	1:166:A:LYS:HE3	7	0.66
(1,227)	1:168:A:VAL:HG21	1:166:A:LYS:HE3	13	0.66
(1,227)	1:168:A:VAL:HG22	1:166:A:LYS:HE3	13	0.66
(1,227)	1:168:A:VAL:HG23	1:166:A:LYS:HE3	13	0.66
(1,4229)	1:74:A:TRP:H	1:75:A:ASP:HB3	1	0.65
(1,4170)	1:144:A:ILE:H	1:109:A:ARG:HG2	20	0.65
(1,4166)	1:99:A:GLN:HG3	1:97:A:ILE:HG21	10	0.65
(1,4166)	1:99:A:GLN:HG3	1:97:A:ILE:HG22	10	0.65
(1,4166)	1:99:A:GLN:HG3	1:97:A:ILE:HG23	10	0.65
(1,4113)	1:98:A:THR:HG21	1:109:A:ARG:HG3	7	0.65
(1,4113)	1:98:A:THR:HG22	1:109:A:ARG:HG3	7	0.65
(1,4113)	1:98:A:THR:HG23	1:109:A:ARG:HG3	7	0.65
(1,4107)	1:79:A:GLN:H	1:72:A:ILE:HG12	1	0.65
(1,3900)	1:102:A:ALA:HA	1:103:A:VAL:HG21	18	0.65
(1,3900)	1:102:A:ALA:HA	1:103:A:VAL:HG22	18	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3900)	1:102:A:ALA:HA	1:103:A:VAL:HG23	18	0.65
(1,3888)	1:97:A:ILE:HG21	1:99:A:GLN:HG3	10	0.65
(1,3888)	1:97:A:ILE:HG22	1:99:A:GLN:HG3	10	0.65
(1,3888)	1:97:A:ILE:HG23	1:99:A:GLN:HG3	10	0.65
(1,3531)	1:88:A:ASP:H	1:86:A:ARG:HB2	5	0.65
(1,3342)	1:180:A:SER:HB3	1:183:A:ILE:HG13	9	0.65
(1,3340)	1:18:A:ASN:H	1:15:A:LEU:HB2	2	0.65
(1,2848)	1:115:A:VAL:HG11	1:114:A:LEU:HB3	4	0.65
(1,2848)	1:115:A:VAL:HG12	1:114:A:LEU:HB3	4	0.65
(1,2848)	1:115:A:VAL:HG13	1:114:A:LEU:HB3	4	0.65
(1,2843)	1:154:A:VAL:HB	1:126:A:ILE:HG12	11	0.65
(1,2629)	1:84:A:VAL:H	1:83:A:MET:HG2	15	0.65
(1,2206)	1:168:A:VAL:HG11	1:51:A:GLU:HG2	20	0.65
(1,2206)	1:168:A:VAL:HG12	1:51:A:GLU:HG2	20	0.65
(1,2206)	1:168:A:VAL:HG13	1:51:A:GLU:HG2	20	0.65
(1,1642)	1:154:A:VAL:H	1:169:A:MET:HB3	13	0.65
(1,1054)	1:114:A:LEU:H	1:131:A:SER:HB2	2	0.65
(1,983)	1:86:A:ARG:HD3	1:86:A:ARG:HB2	20	0.65
(1,889)	1:125:A:ASN:H	1:155:A:CYS:HB2	19	0.65
(1,201)	1:91:A:THR:H	1:89:A:SER:HB2	3	0.65
(1,4355)	1:29:A:THR:HB	1:33:A:ILE:HG12	11	0.64
(1,4229)	1:74:A:TRP:H	1:75:A:ASP:HB3	13	0.64
(1,3694)	1:80:A:VAL:HG21	1:79:A:GLN:HG3	20	0.64
(1,3694)	1:80:A:VAL:HG22	1:79:A:GLN:HG3	20	0.64
(1,3694)	1:80:A:VAL:HG23	1:79:A:GLN:HG3	20	0.64
(1,3676)	1:197:A:LEU:HD11	1:193:A:VAL:HA	6	0.64
(1,3676)	1:197:A:LEU:HD12	1:193:A:VAL:HA	6	0.64
(1,3676)	1:197:A:LEU:HD13	1:193:A:VAL:HA	6	0.64
(1,3626)	1:77:A:SER:H	1:76:A:LYS:HD2	13	0.64
(1,3202)	1:160:A:GLU:HG3	1:159:A:GLU:HA	13	0.64
(1,3202)	1:160:A:GLU:HG3	1:159:A:GLU:HA	17	0.64
(1,3079)	1:130:A:LYS:HB3	1:132:A:VAL:HG11	11	0.64
(1,3079)	1:130:A:LYS:HB3	1:132:A:VAL:HG12	11	0.64
(1,3079)	1:130:A:LYS:HB3	1:132:A:VAL:HG13	11	0.64
(1,2848)	1:115:A:VAL:HG11	1:114:A:LEU:HB3	1	0.64
(1,2848)	1:115:A:VAL:HG12	1:114:A:LEU:HB3	1	0.64
(1,2848)	1:115:A:VAL:HG13	1:114:A:LEU:HB3	1	0.64
(1,2848)	1:115:A:VAL:HG11	1:114:A:LEU:HB3	16	0.64
(1,2848)	1:115:A:VAL:HG12	1:114:A:LEU:HB3	16	0.64
(1,2848)	1:115:A:VAL:HG13	1:114:A:LEU:HB3	16	0.64
(1,2843)	1:154:A:VAL:HB	1:126:A:ILE:HG12	19	0.64
(1,2839)	1:143:A:TYR:HB2	1:139:A:PRO:HB3	1	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2624)	1:91:A:THR:H	1:87:A:ILE:HG13	12	0.64
(1,2179)	1:95:A:HIS:H	1:82:A:ASN:HB3	10	0.64
(1,1166)	1:105:A:SER:HB2	1:180:A:SER:H	6	0.64
(1,908)	1:180:A:SER:HB2	1:183:A:ILE:HB	11	0.64
(1,736)	1:61:A:LEU:HG	1:56:A:GLU:HG2	5	0.64
(1,736)	1:61:A:LEU:HG	1:56:A:GLU:HG2	19	0.64
(1,664)	1:140:A:SER:H	1:139:A:PRO:HG3	10	0.64
(1,532)	1:194:A:ASN:HB3	1:76:A:LYS:HG3	8	0.64
(1,335)	1:14:A:VAL:H	1:13:A:GLU:HG2	1	0.64
(1,227)	1:168:A:VAL:HG21	1:166:A:LYS:HE3	8	0.64
(1,227)	1:168:A:VAL:HG22	1:166:A:LYS:HE3	8	0.64
(1,227)	1:168:A:VAL:HG23	1:166:A:LYS:HE3	8	0.64
(1,134)	1:137:A:TYR:HB3	1:134:A:PHE:HZ	15	0.64
(1,4229)	1:74:A:TRP:H	1:75:A:ASP:HB3	6	0.63
(1,4229)	1:74:A:TRP:H	1:75:A:ASP:HB3	20	0.63
(1,3572)	1:184:A:ILE:H	1:186:A:LYS:HE3	15	0.63
(1,3531)	1:88:A:ASP:H	1:86:A:ARG:HB2	16	0.63
(1,3471)	1:76:A:LYS:HD2	1:77:A:SER:H	4	0.63
(1,3340)	1:18:A:ASN:H	1:15:A:LEU:HB2	16	0.63
(1,3217)	1:197:A:LEU:H	1:196:A:ILE:HG12	2	0.63
(1,3114)	1:22:A:SER:H	1:24:A:TRP:HB2	11	0.63
(1,2848)	1:115:A:VAL:HG11	1:114:A:LEU:HB3	3	0.63
(1,2848)	1:115:A:VAL:HG12	1:114:A:LEU:HB3	3	0.63
(1,2848)	1:115:A:VAL:HG13	1:114:A:LEU:HB3	3	0.63
(1,2848)	1:115:A:VAL:HG11	1:114:A:LEU:HB3	6	0.63
(1,2848)	1:115:A:VAL:HG12	1:114:A:LEU:HB3	6	0.63
(1,2848)	1:115:A:VAL:HG13	1:114:A:LEU:HB3	6	0.63
(1,2848)	1:115:A:VAL:HG11	1:114:A:LEU:HB3	9	0.63
(1,2848)	1:115:A:VAL:HG12	1:114:A:LEU:HB3	9	0.63
(1,2848)	1:115:A:VAL:HG13	1:114:A:LEU:HB3	9	0.63
(1,2848)	1:115:A:VAL:HG11	1:114:A:LEU:HB3	13	0.63
(1,2848)	1:115:A:VAL:HG12	1:114:A:LEU:HB3	13	0.63
(1,2848)	1:115:A:VAL:HG13	1:114:A:LEU:HB3	13	0.63
(1,2848)	1:115:A:VAL:HG11	1:114:A:LEU:HB3	18	0.63
(1,2848)	1:115:A:VAL:HG12	1:114:A:LEU:HB3	18	0.63
(1,2848)	1:115:A:VAL:HG13	1:114:A:LEU:HB3	18	0.63
(1,2825)	1:68:A:THR:H	1:71:A:ARG:HB2	9	0.63
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG11	14	0.63
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG12	14	0.63
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG13	14	0.63
(1,2285)	1:86:A:ARG:HD3	1:86:A:ARG:HA	18	0.63
(1,2161)	1:73:A:THR:H	1:72:A:ILE:HG13	5	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,983)	1:86:A:ARG:HD3	1:86:A:ARG:HB2	13	0.63
(1,949)	1:151:A:CYS:H	1:149:A:HIS:HB2	4	0.63
(1,889)	1:125:A:ASN:H	1:155:A:CYS:HB2	11	0.63
(1,335)	1:14:A:VAL:H	1:13:A:GLU:HG2	7	0.63
(1,260)	1:145:A:ARG:HG3	1:147:A:TYR:HA	10	0.63
(1,227)	1:168:A:VAL:HG21	1:166:A:LYS:HE3	2	0.63
(1,227)	1:168:A:VAL:HG22	1:166:A:LYS:HE3	2	0.63
(1,227)	1:168:A:VAL:HG23	1:166:A:LYS:HE3	2	0.63
(1,227)	1:168:A:VAL:HG21	1:166:A:LYS:HE3	16	0.63
(1,227)	1:168:A:VAL:HG22	1:166:A:LYS:HE3	16	0.63
(1,227)	1:168:A:VAL:HG23	1:166:A:LYS:HE3	16	0.63
(1,19)	1:106:A:ILE:HG21	1:109:A:ARG:HD2	18	0.63
(1,19)	1:106:A:ILE:HG22	1:109:A:ARG:HD2	18	0.63
(1,19)	1:106:A:ILE:HG23	1:109:A:ARG:HD2	18	0.63
(1,4229)	1:74:A:TRP:H	1:75:A:ASP:HB3	9	0.62
(1,4067)	1:168:A:VAL:HG21	1:51:A:GLU:HB3	14	0.62
(1,4067)	1:168:A:VAL:HG22	1:51:A:GLU:HB3	14	0.62
(1,4067)	1:168:A:VAL:HG23	1:51:A:GLU:HB3	14	0.62
(1,4028)	1:72:A:ILE:HG13	1:70:A:ASP:H	5	0.62
(1,3340)	1:18:A:ASN:H	1:15:A:LEU:HB2	19	0.62
(1,2796)	1:203:A:ILE:HD11	1:63:A:ASP:HB2	18	0.62
(1,2796)	1:203:A:ILE:HD12	1:63:A:ASP:HB2	18	0.62
(1,2796)	1:203:A:ILE:HD13	1:63:A:ASP:HB2	18	0.62
(1,2637)	1:187:A:THR:HG21	1:175:A:MET:HG3	12	0.62
(1,2637)	1:187:A:THR:HG22	1:175:A:MET:HG3	12	0.62
(1,2637)	1:187:A:THR:HG23	1:175:A:MET:HG3	12	0.62
(1,2624)	1:91:A:THR:H	1:87:A:ILE:HG13	9	0.62
(1,2501)	1:37:A:SER:H	1:26:A:VAL:HG11	4	0.62
(1,2501)	1:37:A:SER:H	1:26:A:VAL:HG12	4	0.62
(1,2501)	1:37:A:SER:H	1:26:A:VAL:HG13	4	0.62
(1,2368)	1:137:A:TYR:HB2	1:136:A:GLU:HG3	13	0.62
(1,2285)	1:86:A:ARG:HD3	1:86:A:ARG:HA	20	0.62
(1,2161)	1:73:A:THR:H	1:72:A:ILE:HG13	12	0.62
(1,2161)	1:73:A:THR:H	1:72:A:ILE:HG13	16	0.62
(1,1994)	1:176:A:ARG:H	1:109:A:ARG:HD3	19	0.62
(1,1589)	1:190:A:SER:HB3	1:102:A:ALA:HB1	8	0.62
(1,1589)	1:190:A:SER:HB3	1:102:A:ALA:HB2	8	0.62
(1,1589)	1:190:A:SER:HB3	1:102:A:ALA:HB3	8	0.62
(1,1423)	1:97:A:ILE:HG21	1:80:A:VAL:HG21	13	0.62
(1,1423)	1:97:A:ILE:HG21	1:80:A:VAL:HG22	13	0.62
(1,1423)	1:97:A:ILE:HG21	1:80:A:VAL:HG23	13	0.62
(1,1423)	1:97:A:ILE:HG22	1:80:A:VAL:HG21	13	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1423)	1:97:A:ILE:HG22	1:80:A:VAL:HG22	13	0.62
(1,1423)	1:97:A:ILE:HG22	1:80:A:VAL:HG23	13	0.62
(1,1423)	1:97:A:ILE:HG23	1:80:A:VAL:HG21	13	0.62
(1,1423)	1:97:A:ILE:HG23	1:80:A:VAL:HG22	13	0.62
(1,1423)	1:97:A:ILE:HG23	1:80:A:VAL:HG23	13	0.62
(1,1179)	1:160:A:GLU:H	1:158:A:MET:HG2	2	0.62
(1,1066)	1:144:A:ILE:HA	1:109:A:ARG:HG2	14	0.62
(1,983)	1:86:A:ARG:HD3	1:86:A:ARG:HB2	11	0.62
(1,907)	1:200:A:LYS:HB2	1:197:A:LEU:HD21	8	0.62
(1,907)	1:200:A:LYS:HB2	1:197:A:LEU:HD22	8	0.62
(1,907)	1:200:A:LYS:HB2	1:197:A:LEU:HD23	8	0.62
(1,889)	1:125:A:ASN:H	1:155:A:CYS:HB2	7	0.62
(1,889)	1:125:A:ASN:H	1:155:A:CYS:HB2	10	0.62
(1,889)	1:125:A:ASN:H	1:155:A:CYS:HB2	16	0.62
(1,375)	1:112:A:ILE:HG21	1:95:A:HIS:HB3	8	0.62
(1,375)	1:112:A:ILE:HG22	1:95:A:HIS:HB3	8	0.62
(1,375)	1:112:A:ILE:HG23	1:95:A:HIS:HB3	8	0.62
(1,3)	1:76:A:LYS:HE3	1:197:A:LEU:HD11	16	0.62
(1,3)	1:76:A:LYS:HE3	1:197:A:LEU:HD12	16	0.62
(1,3)	1:76:A:LYS:HE3	1:197:A:LEU:HD13	16	0.62
(1,3896)	1:130:A:LYS:H	1:148:A:ASN:HB3	13	0.61
(1,3632)	1:137:A:TYR:H	1:136:A:GLU:HG3	15	0.61
(1,3580)	1:137:A:TYR:HB3	1:112:A:ILE:HG12	15	0.61
(1,3531)	1:88:A:ASP:H	1:86:A:ARG:HB2	18	0.61
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG21	10	0.61
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG22	10	0.61
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG23	10	0.61
(1,3202)	1:160:A:GLU:HG3	1:159:A:GLU:HA	2	0.61
(1,2766)	1:159:A:GLU:HB3	1:160:A:GLU:HG3	15	0.61
(1,2679)	1:67:A:GLN:H	1:68:A:THR:HA	6	0.61
(1,2624)	1:91:A:THR:H	1:87:A:ILE:HG13	1	0.61
(1,2624)	1:91:A:THR:H	1:87:A:ILE:HG13	5	0.61
(1,2038)	1:186:A:LYS:HD2	1:186:A:LYS:HA	6	0.61
(1,1997)	1:33:A:ILE:HG12	1:193:A:VAL:HA	7	0.61
(1,1988)	1:83:A:MET:HG3	1:68:A:THR:HG21	19	0.61
(1,1988)	1:83:A:MET:HG3	1:68:A:THR:HG22	19	0.61
(1,1988)	1:83:A:MET:HG3	1:68:A:THR:HG23	19	0.61
(1,1700)	1:130:A:LYS:HB3	1:130:A:LYS:HE2	7	0.61
(1,1589)	1:190:A:SER:HB3	1:102:A:ALA:HB1	17	0.61
(1,1589)	1:190:A:SER:HB3	1:102:A:ALA:HB2	17	0.61
(1,1589)	1:190:A:SER:HB3	1:102:A:ALA:HB3	17	0.61
(1,1516)	1:168:A:VAL:HG21	1:51:A:GLU:HG2	3	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1516)	1:168:A:VAL:HG22	1:51:A:GLU:HG2	3	0.61
(1,1516)	1:168:A:VAL:HG23	1:51:A:GLU:HG2	3	0.61
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG21	17	0.61
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG22	17	0.61
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG23	17	0.61
(1,983)	1:86:A:ARG:HD3	1:86:A:ARG:HB2	9	0.61
(1,375)	1:112:A:ILE:HG21	1:95:A:HIS:HB3	2	0.61
(1,375)	1:112:A:ILE:HG22	1:95:A:HIS:HB3	2	0.61
(1,375)	1:112:A:ILE:HG23	1:95:A:HIS:HB3	2	0.61
(1,375)	1:112:A:ILE:HG21	1:95:A:HIS:HB3	4	0.61
(1,375)	1:112:A:ILE:HG22	1:95:A:HIS:HB3	4	0.61
(1,375)	1:112:A:ILE:HG23	1:95:A:HIS:HB3	4	0.61
(1,335)	1:14:A:VAL:H	1:13:A:GLU:HG2	16	0.61
(1,335)	1:14:A:VAL:H	1:13:A:GLU:HG2	18	0.61
(1,287)	1:26:A:VAL:H	1:25:A:LYS:HE3	2	0.61
(1,227)	1:168:A:VAL:HG21	1:166:A:LYS:HE3	6	0.61
(1,227)	1:168:A:VAL:HG22	1:166:A:LYS:HE3	6	0.61
(1,227)	1:168:A:VAL:HG23	1:166:A:LYS:HE3	6	0.61
(1,4229)	1:74:A:TRP:H	1:75:A:ASP:HB3	16	0.6
(1,4107)	1:79:A:GLN:H	1:72:A:ILE:HG12	18	0.6
(1,3896)	1:130:A:LYS:H	1:148:A:ASN:HB3	5	0.6
(1,3531)	1:88:A:ASP:H	1:86:A:ARG:HB2	1	0.6
(1,3342)	1:180:A:SER:HB3	1:183:A:ILE:HG13	17	0.6
(1,3217)	1:197:A:LEU:H	1:196:A:ILE:HG12	11	0.6
(1,3079)	1:130:A:LYS:HB3	1:132:A:VAL:HG11	15	0.6
(1,3079)	1:130:A:LYS:HB3	1:132:A:VAL:HG12	15	0.6
(1,3079)	1:130:A:LYS:HB3	1:132:A:VAL:HG13	15	0.6
(1,2847)	1:71:A:ARG:HD2	1:71:A:ARG:HB2	13	0.6
(1,2766)	1:159:A:GLU:HB3	1:160:A:GLU:HG3	18	0.6
(1,2624)	1:91:A:THR:H	1:87:A:ILE:HG13	14	0.6
(1,2624)	1:91:A:THR:H	1:87:A:ILE:HG13	16	0.6
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG11	12	0.6
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG12	12	0.6
(1,2328)	1:193:A:VAL:HA	1:35:A:VAL:HG13	12	0.6
(1,2161)	1:73:A:THR:H	1:72:A:ILE:HG13	11	0.6
(1,1997)	1:33:A:ILE:HG12	1:193:A:VAL:HA	9	0.6
(1,1823)	1:207:A:ARG:HA	1:207:A:ARG:HG2	14	0.6
(1,1642)	1:154:A:VAL:H	1:169:A:MET:HB3	6	0.6
(1,1517)	1:113:A:ASP:H	1:94:A:CYS:HB2	18	0.6
(1,1207)	1:90:A:ASP:H	1:4:A:LYS:HE3	15	0.6
(1,573)	1:24:A:TRP:HZ3	1:24:A:TRP:HB3	3	0.6
(1,474)	1:144:A:ILE:HG21	1:109:A:ARG:HB3	6	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,474)	1:144:A:ILE:HG22	1:109:A:ARG:HB3	6	0.6
(1,474)	1:144:A:ILE:HG23	1:109:A:ARG:HB3	6	0.6
(1,375)	1:112:A:ILE:HG21	1:95:A:HIS:HB3	16	0.6
(1,375)	1:112:A:ILE:HG22	1:95:A:HIS:HB3	16	0.6
(1,375)	1:112:A:ILE:HG23	1:95:A:HIS:HB3	16	0.6
(1,227)	1:168:A:VAL:HG21	1:166:A:LYS:HE3	14	0.6
(1,227)	1:168:A:VAL:HG22	1:166:A:LYS:HE3	14	0.6
(1,227)	1:168:A:VAL:HG23	1:166:A:LYS:HE3	14	0.6
(1,4350)	1:21:A:THR:HG21	1:20:A:ASP:HB2	6	0.59
(1,4350)	1:21:A:THR:HG22	1:20:A:ASP:HB2	6	0.59
(1,4350)	1:21:A:THR:HG23	1:20:A:ASP:HB2	6	0.59
(1,4107)	1:79:A:GLN:H	1:72:A:ILE:HG12	12	0.59
(1,3719)	1:67:A:GLN:HA	1:71:A:ARG:HG3	7	0.59
(1,3655)	1:69:A:GLY:H	1:67:A:GLN:HB3	6	0.59
(1,3487)	1:184:A:ILE:H	1:185:A:GLU:HG3	8	0.59
(1,3344)	1:38:A:LYS:H	1:46:A:ASN:HB3	18	0.59
(1,3217)	1:197:A:LEU:H	1:196:A:ILE:HG12	16	0.59
(1,3217)	1:197:A:LEU:H	1:196:A:ILE:HG12	19	0.59
(1,3034)	1:144:A:ILE:HG12	1:109:A:ARG:HG2	12	0.59
(1,2796)	1:203:A:ILE:HD11	1:63:A:ASP:HB2	7	0.59
(1,2796)	1:203:A:ILE:HD12	1:63:A:ASP:HB2	7	0.59
(1,2796)	1:203:A:ILE:HD13	1:63:A:ASP:HB2	7	0.59
(1,2161)	1:73:A:THR:H	1:72:A:ILE:HG13	1	0.59
(1,2161)	1:73:A:THR:H	1:72:A:ILE:HG13	8	0.59
(1,1988)	1:83:A:MET:HG3	1:68:A:THR:HG21	13	0.59
(1,1988)	1:83:A:MET:HG3	1:68:A:THR:HG22	13	0.59
(1,1988)	1:83:A:MET:HG3	1:68:A:THR:HG23	13	0.59
(1,1874)	1:153:A:PHE:HB2	1:65:A:LEU:HD11	2	0.59
(1,1874)	1:153:A:PHE:HB2	1:65:A:LEU:HD12	2	0.59
(1,1874)	1:153:A:PHE:HB2	1:65:A:LEU:HD13	2	0.59
(1,1768)	1:128:A:SER:H	1:152:A:GLY:HA2	16	0.59
(1,1756)	1:194:A:ASN:H	1:193:A:VAL:HG11	15	0.59
(1,1756)	1:194:A:ASN:H	1:193:A:VAL:HG12	15	0.59
(1,1756)	1:194:A:ASN:H	1:193:A:VAL:HG13	15	0.59
(1,1642)	1:154:A:VAL:H	1:169:A:MET:HB3	3	0.59
(1,1642)	1:154:A:VAL:H	1:169:A:MET:HB3	8	0.59
(1,1179)	1:160:A:GLU:H	1:158:A:MET:HG2	5	0.59
(1,1179)	1:160:A:GLU:H	1:158:A:MET:HG2	16	0.59
(1,1179)	1:160:A:GLU:H	1:158:A:MET:HG2	19	0.59
(1,1054)	1:114:A:LEU:H	1:131:A:SER:HB2	3	0.59
(1,993)	1:60:A:LYS:HG3	1:63:A:ASP:HB2	17	0.59
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG11	4	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG12	4	0.59
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG13	4	0.59
(1,646)	1:42:A:LYS:H	1:172:A:GLN:HG2	3	0.59
(1,379)	1:69:A:GLY:HA2	1:72:A:ILE:H	16	0.59
(1,335)	1:14:A:VAL:H	1:13:A:GLU:HG2	15	0.59
(1,4015)	1:27:A:VAL:H	1:36:A:SER:HB2	16	0.58
(1,3862)	1:109:A:ARG:HG2	1:144:A:ILE:HG12	2	0.58
(1,3217)	1:197:A:LEU:H	1:196:A:ILE:HG12	20	0.58
(1,2747)	1:91:A:THR:HG21	1:4:A:LYS:HD3	1	0.58
(1,2747)	1:91:A:THR:HG22	1:4:A:LYS:HD3	1	0.58
(1,2747)	1:91:A:THR:HG23	1:4:A:LYS:HD3	1	0.58
(1,2747)	1:91:A:THR:HG21	1:4:A:LYS:HD3	12	0.58
(1,2747)	1:91:A:THR:HG22	1:4:A:LYS:HD3	12	0.58
(1,2747)	1:91:A:THR:HG23	1:4:A:LYS:HD3	12	0.58
(1,1997)	1:33:A:ILE:HG12	1:193:A:VAL:HA	11	0.58
(1,1747)	1:205:A:ALA:HA	1:204:A:LYS:HB3	16	0.58
(1,1642)	1:154:A:VAL:H	1:169:A:MET:HB3	1	0.58
(1,1589)	1:190:A:SER:HB3	1:102:A:ALA:HB1	10	0.58
(1,1589)	1:190:A:SER:HB3	1:102:A:ALA:HB2	10	0.58
(1,1589)	1:190:A:SER:HB3	1:102:A:ALA:HB3	10	0.58
(1,1343)	1:129:A:SER:HB2	1:127:A:ILE:HG13	15	0.58
(1,1302)	1:198:A:ASN:H	1:76:A:LYS:HG3	16	0.58
(1,1302)	1:198:A:ASN:H	1:76:A:LYS:HG3	20	0.58
(1,1179)	1:160:A:GLU:H	1:158:A:MET:HG2	1	0.58
(1,1179)	1:160:A:GLU:H	1:158:A:MET:HG2	12	0.58
(1,1032)	1:204:A:LYS:HA	1:207:A:ARG:HG2	13	0.58
(1,983)	1:86:A:ARG:HD3	1:86:A:ARG:HB2	12	0.58
(1,949)	1:151:A:CYS:H	1:149:A:HIS:HB2	14	0.58
(1,868)	1:200:A:LYS:HE3	1:54:A:ILE:HD11	10	0.58
(1,868)	1:200:A:LYS:HE3	1:54:A:ILE:HD12	10	0.58
(1,868)	1:200:A:LYS:HE3	1:54:A:ILE:HD13	10	0.58
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG11	12	0.58
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG12	12	0.58
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG13	12	0.58
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG11	4	0.58
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG12	4	0.58
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG13	4	0.58
(1,10)	1:203:A:ILE:HA	1:204:A:LYS:HB2	16	0.58
(1,10)	1:203:A:ILE:HA	1:204:A:LYS:HB2	20	0.58
(1,4242)	1:130:A:LYS:HD2	1:10:A:THR:H	4	0.57
(1,4113)	1:98:A:THR:HG21	1:109:A:ARG:HG3	3	0.57
(1,4113)	1:98:A:THR:HG22	1:109:A:ARG:HG3	3	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4113)	1:98:A:THR:HG23	1:109:A:ARG:HG3	3	0.57
(1,4113)	1:98:A:THR:HG21	1:109:A:ARG:HG3	12	0.57
(1,4113)	1:98:A:THR:HG22	1:109:A:ARG:HG3	12	0.57
(1,4113)	1:98:A:THR:HG23	1:109:A:ARG:HG3	12	0.57
(1,4028)	1:72:A:ILE:HG13	1:70:A:ASP:H	1	0.57
(1,3719)	1:67:A:GLN:HA	1:71:A:ARG:HG3	2	0.57
(1,3684)	1:61:A:LEU:H	1:56:A:GLU:HG2	14	0.57
(1,3531)	1:88:A:ASP:H	1:86:A:ARG:HB2	3	0.57
(1,3487)	1:184:A:ILE:H	1:185:A:GLU:HG3	11	0.57
(1,3340)	1:18:A:ASN:H	1:15:A:LEU:HB2	8	0.57
(1,3217)	1:197:A:LEU:H	1:196:A:ILE:HG12	5	0.57
(1,3217)	1:197:A:LEU:H	1:196:A:ILE:HG12	10	0.57
(1,3217)	1:197:A:LEU:H	1:196:A:ILE:HG12	15	0.57
(1,3110)	1:72:A:ILE:HA	1:71:A:ARG:HB3	9	0.57
(1,3108)	1:204:A:LYS:HA	1:204:A:LYS:HD3	5	0.57
(1,2501)	1:37:A:SER:H	1:26:A:VAL:HG11	9	0.57
(1,2501)	1:37:A:SER:H	1:26:A:VAL:HG12	9	0.57
(1,2501)	1:37:A:SER:H	1:26:A:VAL:HG13	9	0.57
(1,1923)	1:71:A:ARG:HB3	1:78:A:LEU:HG	10	0.57
(1,1683)	1:119:A:ARG:H	1:119:A:ARG:HD2	4	0.57
(1,1516)	1:168:A:VAL:HG21	1:51:A:GLU:HG2	10	0.57
(1,1516)	1:168:A:VAL:HG22	1:51:A:GLU:HG2	10	0.57
(1,1516)	1:168:A:VAL:HG23	1:51:A:GLU:HG2	10	0.57
(1,1463)	1:91:A:THR:HA	1:117:A:ILE:HG12	14	0.57
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG21	19	0.57
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG22	19	0.57
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG23	19	0.57
(1,983)	1:86:A:ARG:HD3	1:86:A:ARG:HB2	5	0.57
(1,949)	1:151:A:CYS:H	1:149:A:HIS:HB2	8	0.57
(1,474)	1:144:A:ILE:HG21	1:109:A:ARG:HB3	3	0.57
(1,474)	1:144:A:ILE:HG22	1:109:A:ARG:HB3	3	0.57
(1,474)	1:144:A:ILE:HG23	1:109:A:ARG:HB3	3	0.57
(1,227)	1:168:A:VAL:HG21	1:166:A:LYS:HE3	3	0.57
(1,227)	1:168:A:VAL:HG22	1:166:A:LYS:HE3	3	0.57
(1,227)	1:168:A:VAL:HG23	1:166:A:LYS:HE3	3	0.57
(1,227)	1:168:A:VAL:HG21	1:166:A:LYS:HE3	4	0.57
(1,227)	1:168:A:VAL:HG22	1:166:A:LYS:HE3	4	0.57
(1,227)	1:168:A:VAL:HG23	1:166:A:LYS:HE3	4	0.57
(1,10)	1:203:A:ILE:HA	1:204:A:LYS:HB2	3	0.57
(1,10)	1:203:A:ILE:HA	1:204:A:LYS:HB2	5	0.57
(1,4366)	1:83:A:MET:HG2	1:86:A:ARG:HG2	8	0.56
(1,4229)	1:74:A:TRP:H	1:75:A:ASP:HB3	19	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4107)	1:79:A:GLN:H	1:72:A:ILE:HG12	16	0.56
(1,4028)	1:72:A:ILE:HG13	1:70:A:ASP:H	12	0.56
(1,3988)	1:170:A:PHE:H	1:151:A:CYS:HB2	16	0.56
(1,3900)	1:102:A:ALA:HA	1:103:A:VAL:HG21	20	0.56
(1,3900)	1:102:A:ALA:HA	1:103:A:VAL:HG22	20	0.56
(1,3900)	1:102:A:ALA:HA	1:103:A:VAL:HG23	20	0.56
(1,3735)	1:193:A:VAL:H	1:194:A:ASN:HB2	12	0.56
(1,3525)	1:68:A:THR:HG21	1:69:A:GLY:HA3	17	0.56
(1,3525)	1:68:A:THR:HG22	1:69:A:GLY:HA3	17	0.56
(1,3525)	1:68:A:THR:HG23	1:69:A:GLY:HA3	17	0.56
(1,3465)	1:71:A:ARG:HB2	1:65:A:LEU:HD11	14	0.56
(1,3465)	1:71:A:ARG:HB2	1:65:A:LEU:HD12	14	0.56
(1,3465)	1:71:A:ARG:HB2	1:65:A:LEU:HD13	14	0.56
(1,3217)	1:197:A:LEU:H	1:196:A:ILE:HG12	12	0.56
(1,3110)	1:72:A:ILE:HA	1:71:A:ARG:HB3	6	0.56
(1,3110)	1:72:A:ILE:HA	1:71:A:ARG:HB3	16	0.56
(1,3034)	1:144:A:ILE:HG12	1:109:A:ARG:HG2	10	0.56
(1,3011)	1:17:A:TYR:H	1:18:A:ASN:HB2	20	0.56
(1,2984)	1:166:A:LYS:HG2	1:51:A:GLU:HG2	6	0.56
(1,2866)	1:147:A:TYR:H	1:176:A:ARG:HB2	16	0.56
(1,2839)	1:143:A:TYR:HB2	1:139:A:PRO:HB3	18	0.56
(1,2501)	1:37:A:SER:H	1:26:A:VAL:HG11	6	0.56
(1,2501)	1:37:A:SER:H	1:26:A:VAL:HG12	6	0.56
(1,2501)	1:37:A:SER:H	1:26:A:VAL:HG13	6	0.56
(1,2501)	1:37:A:SER:H	1:26:A:VAL:HG11	13	0.56
(1,2501)	1:37:A:SER:H	1:26:A:VAL:HG12	13	0.56
(1,2501)	1:37:A:SER:H	1:26:A:VAL:HG13	13	0.56
(1,2272)	1:64:A:PHE:HZ	1:65:A:LEU:HD21	2	0.56
(1,2272)	1:64:A:PHE:HZ	1:65:A:LEU:HD22	2	0.56
(1,2272)	1:64:A:PHE:HZ	1:65:A:LEU:HD23	2	0.56
(1,2161)	1:73:A:THR:H	1:72:A:ILE:HG13	3	0.56
(1,2161)	1:73:A:THR:H	1:72:A:ILE:HG13	13	0.56
(1,1997)	1:33:A:ILE:HG12	1:193:A:VAL:HA	10	0.56
(1,1790)	1:144:A:ILE:HG21	1:177:A:GLY:HA2	17	0.56
(1,1790)	1:144:A:ILE:HG22	1:177:A:GLY:HA2	17	0.56
(1,1790)	1:144:A:ILE:HG23	1:177:A:GLY:HA2	17	0.56
(1,1694)	1:137:A:TYR:HB3	1:136:A:GLU:HG3	7	0.56
(1,1405)	1:42:A:LYS:HB3	1:43:A:PHE:HB2	11	0.56
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG21	2	0.56
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG22	2	0.56
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG23	2	0.56
(1,1069)	1:191:A:ASN:HA	1:192:A:LEU:HD21	5	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1069)	1:191:A:ASN:HA	1:192:A:LEU:HD22	5	0.56
(1,1069)	1:191:A:ASN:HA	1:192:A:LEU:HD23	5	0.56
(1,1033)	1:144:A:ILE:H	1:109:A:ARG:HD3	11	0.56
(1,833)	1:60:A:LYS:HE3	1:203:A:ILE:HD11	3	0.56
(1,833)	1:60:A:LYS:HE3	1:203:A:ILE:HD12	3	0.56
(1,833)	1:60:A:LYS:HE3	1:203:A:ILE:HD13	3	0.56
(1,375)	1:112:A:ILE:HG21	1:95:A:HIS:HB3	6	0.56
(1,375)	1:112:A:ILE:HG22	1:95:A:HIS:HB3	6	0.56
(1,375)	1:112:A:ILE:HG23	1:95:A:HIS:HB3	6	0.56
(1,260)	1:145:A:ARG:HG3	1:147:A:TYR:HA	16	0.56
(1,4288)	1:186:A:LYS:HE2	1:186:A:LYS:HG3	20	0.55
(1,4113)	1:98:A:THR:HG21	1:109:A:ARG:HG3	8	0.55
(1,4113)	1:98:A:THR:HG22	1:109:A:ARG:HG3	8	0.55
(1,4113)	1:98:A:THR:HG23	1:109:A:ARG:HG3	8	0.55
(1,4067)	1:168:A:VAL:HG21	1:51:A:GLU:HB3	13	0.55
(1,4067)	1:168:A:VAL:HG22	1:51:A:GLU:HB3	13	0.55
(1,4067)	1:168:A:VAL:HG23	1:51:A:GLU:HB3	13	0.55
(1,4028)	1:72:A:ILE:HG13	1:70:A:ASP:H	11	0.55
(1,4002)	1:105:A:SER:HB3	1:183:A:ILE:HD11	8	0.55
(1,4002)	1:105:A:SER:HB3	1:183:A:ILE:HD12	8	0.55
(1,4002)	1:105:A:SER:HB3	1:183:A:ILE:HD13	8	0.55
(1,3896)	1:130:A:LYS:H	1:148:A:ASN:HB3	9	0.55
(1,3608)	1:56:A:GLU:H	1:165:A:SER:HB3	7	0.55
(1,3217)	1:197:A:LEU:H	1:196:A:ILE:HG12	1	0.55
(1,3217)	1:197:A:LEU:H	1:196:A:ILE:HG12	8	0.55
(1,3217)	1:197:A:LEU:H	1:196:A:ILE:HG12	13	0.55
(1,3217)	1:197:A:LEU:H	1:196:A:ILE:HG12	17	0.55
(1,3217)	1:197:A:LEU:H	1:196:A:ILE:HG12	18	0.55
(1,3079)	1:130:A:LYS:HB3	1:132:A:VAL:HG11	1	0.55
(1,3079)	1:130:A:LYS:HB3	1:132:A:VAL:HG12	1	0.55
(1,3079)	1:130:A:LYS:HB3	1:132:A:VAL:HG13	1	0.55
(1,3079)	1:130:A:LYS:HB3	1:132:A:VAL:HG11	17	0.55
(1,3079)	1:130:A:LYS:HB3	1:132:A:VAL:HG12	17	0.55
(1,3079)	1:130:A:LYS:HB3	1:132:A:VAL:HG13	17	0.55
(1,2848)	1:115:A:VAL:HG11	1:114:A:LEU:HB3	15	0.55
(1,2848)	1:115:A:VAL:HG12	1:114:A:LEU:HB3	15	0.55
(1,2848)	1:115:A:VAL:HG13	1:114:A:LEU:HB3	15	0.55
(1,2285)	1:86:A:ARG:HD3	1:86:A:ARG:HA	14	0.55
(1,2167)	1:60:A:LYS:HG3	1:61:A:LEU:HD21	7	0.55
(1,2167)	1:60:A:LYS:HG3	1:61:A:LEU:HD22	7	0.55
(1,2167)	1:60:A:LYS:HG3	1:61:A:LEU:HD23	7	0.55
(1,1826)	1:184:A:ILE:HD11	1:183:A:ILE:HG13	8	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1826)	1:184:A:ILE:HD12	1:183:A:ILE:HG13	8	0.55
(1,1826)	1:184:A:ILE:HD13	1:183:A:ILE:HG13	8	0.55
(1,1768)	1:128:A:SER:H	1:152:A:GLY:HA2	9	0.55
(1,1747)	1:205:A:ALA:HA	1:204:A:LYS:HB3	3	0.55
(1,1700)	1:130:A:LYS:HB3	1:130:A:LYS:HE2	12	0.55
(1,1252)	1:130:A:LYS:HB3	1:7:A:ALA:HA	2	0.55
(1,833)	1:60:A:LYS:HE3	1:203:A:ILE:HD11	12	0.55
(1,833)	1:60:A:LYS:HE3	1:203:A:ILE:HD12	12	0.55
(1,833)	1:60:A:LYS:HE3	1:203:A:ILE:HD13	12	0.55
(1,787)	1:158:A:MET:H	1:165:A:SER:HB2	17	0.55
(1,787)	1:158:A:MET:H	1:165:A:SER:HB2	18	0.55
(1,566)	1:36:A:SER:HB2	1:26:A:VAL:HG11	9	0.55
(1,566)	1:36:A:SER:HB2	1:26:A:VAL:HG12	9	0.55
(1,566)	1:36:A:SER:HB2	1:26:A:VAL:HG13	9	0.55
(1,201)	1:91:A:THR:H	1:89:A:SER:HB2	5	0.55
(1,201)	1:91:A:THR:H	1:89:A:SER:HB2	6	0.55
(1,134)	1:137:A:TYR:HB3	1:134:A:PHE:HZ	8	0.55
(1,102)	1:73:A:THR:HB	1:72:A:ILE:HG13	9	0.55
(1,4366)	1:83:A:MET:HG2	1:86:A:ARG:HG2	3	0.54
(1,4170)	1:144:A:ILE:H	1:109:A:ARG:HG2	12	0.54
(1,4113)	1:98:A:THR:HG21	1:109:A:ARG:HG3	18	0.54
(1,4113)	1:98:A:THR:HG22	1:109:A:ARG:HG3	18	0.54
(1,4113)	1:98:A:THR:HG23	1:109:A:ARG:HG3	18	0.54
(1,4028)	1:72:A:ILE:HG13	1:70:A:ASP:H	16	0.54
(1,4028)	1:72:A:ILE:HG13	1:70:A:ASP:H	20	0.54
(1,3862)	1:109:A:ARG:HG2	1:144:A:ILE:HG12	3	0.54
(1,3561)	1:53:A:ILE:HG21	1:32:A:LYS:HE3	13	0.54
(1,3561)	1:53:A:ILE:HG22	1:32:A:LYS:HE3	13	0.54
(1,3561)	1:53:A:ILE:HG23	1:32:A:LYS:HE3	13	0.54
(1,3217)	1:197:A:LEU:H	1:196:A:ILE:HG12	3	0.54
(1,3217)	1:197:A:LEU:H	1:196:A:ILE:HG12	7	0.54
(1,3110)	1:72:A:ILE:HA	1:71:A:ARG:HB3	11	0.54
(1,3075)	1:192:A:LEU:H	1:193:A:VAL:HG11	19	0.54
(1,3075)	1:192:A:LEU:H	1:193:A:VAL:HG12	19	0.54
(1,3075)	1:192:A:LEU:H	1:193:A:VAL:HG13	19	0.54
(1,2892)	1:60:A:LYS:HB3	1:60:A:LYS:HD3	11	0.54
(1,2892)	1:60:A:LYS:HB3	1:60:A:LYS:HD3	13	0.54
(1,2839)	1:143:A:TYR:HB2	1:139:A:PRO:HB3	3	0.54
(1,2637)	1:187:A:THR:HG21	1:175:A:MET:HG3	19	0.54
(1,2637)	1:187:A:THR:HG22	1:175:A:MET:HG3	19	0.54
(1,2637)	1:187:A:THR:HG23	1:175:A:MET:HG3	19	0.54
(1,2624)	1:91:A:THR:H	1:87:A:ILE:HG13	11	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2501)	1:37:A:SER:H	1:26:A:VAL:HG11	11	0.54
(1,2501)	1:37:A:SER:H	1:26:A:VAL:HG12	11	0.54
(1,2501)	1:37:A:SER:H	1:26:A:VAL:HG13	11	0.54
(1,2285)	1:86:A:ARG:HD3	1:86:A:ARG:HA	1	0.54
(1,2285)	1:86:A:ARG:HD3	1:86:A:ARG:HA	4	0.54
(1,2285)	1:86:A:ARG:HD3	1:86:A:ARG:HA	10	0.54
(1,2272)	1:64:A:PHE:HZ	1:65:A:LEU:HD21	1	0.54
(1,2272)	1:64:A:PHE:HZ	1:65:A:LEU:HD22	1	0.54
(1,2272)	1:64:A:PHE:HZ	1:65:A:LEU:HD23	1	0.54
(1,2272)	1:64:A:PHE:HZ	1:65:A:LEU:HD21	15	0.54
(1,2272)	1:64:A:PHE:HZ	1:65:A:LEU:HD22	15	0.54
(1,2272)	1:64:A:PHE:HZ	1:65:A:LEU:HD23	15	0.54
(1,2161)	1:73:A:THR:H	1:72:A:ILE:HG13	2	0.54
(1,1997)	1:33:A:ILE:HG12	1:193:A:VAL:HA	2	0.54
(1,1768)	1:128:A:SER:H	1:152:A:GLY:HA2	20	0.54
(1,1756)	1:194:A:ASN:H	1:193:A:VAL:HG11	2	0.54
(1,1756)	1:194:A:ASN:H	1:193:A:VAL:HG12	2	0.54
(1,1756)	1:194:A:ASN:H	1:193:A:VAL:HG13	2	0.54
(1,1517)	1:113:A:ASP:H	1:94:A:CYS:HB2	3	0.54
(1,983)	1:86:A:ARG:HD3	1:86:A:ARG:HB2	1	0.54
(1,749)	1:105:A:SER:HB2	1:179:A:LEU:HG	8	0.54
(1,201)	1:91:A:THR:H	1:89:A:SER:HB2	18	0.54
(1,118)	1:25:A:LYS:H	1:25:A:LYS:HG3	5	0.54
(1,102)	1:73:A:THR:HB	1:72:A:ILE:HG13	4	0.54
(1,102)	1:73:A:THR:HB	1:72:A:ILE:HG13	6	0.54
(1,4379)	1:130:A:LYS:HB3	1:10:A:THR:HG21	3	0.53
(1,4379)	1:130:A:LYS:HB3	1:10:A:THR:HG22	3	0.53
(1,4379)	1:130:A:LYS:HB3	1:10:A:THR:HG23	3	0.53
(1,4350)	1:21:A:THR:HG21	1:20:A:ASP:HB2	13	0.53
(1,4350)	1:21:A:THR:HG22	1:20:A:ASP:HB2	13	0.53
(1,4350)	1:21:A:THR:HG23	1:20:A:ASP:HB2	13	0.53
(1,4228)	1:170:A:PHE:H	1:171:A:VAL:HG11	17	0.53
(1,4228)	1:170:A:PHE:H	1:171:A:VAL:HG12	17	0.53
(1,4228)	1:170:A:PHE:H	1:171:A:VAL:HG13	17	0.53
(1,4166)	1:99:A:GLN:HG3	1:97:A:ILE:HG21	19	0.53
(1,4166)	1:99:A:GLN:HG3	1:97:A:ILE:HG22	19	0.53
(1,4166)	1:99:A:GLN:HG3	1:97:A:ILE:HG23	19	0.53
(1,4067)	1:168:A:VAL:HG21	1:51:A:GLU:HB3	16	0.53
(1,4067)	1:168:A:VAL:HG22	1:51:A:GLU:HB3	16	0.53
(1,4067)	1:168:A:VAL:HG23	1:51:A:GLU:HB3	16	0.53
(1,3896)	1:130:A:LYS:H	1:148:A:ASN:HB3	17	0.53
(1,3888)	1:97:A:ILE:HG21	1:99:A:GLN:HG3	19	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3888)	1:97:A:ILE:HG22	1:99:A:GLN:HG3	19	0.53
(1,3888)	1:97:A:ILE:HG23	1:99:A:GLN:HG3	19	0.53
(1,3778)	1:76:A:LYS:HE3	1:76:A:LYS:HG3	7	0.53
(1,3580)	1:137:A:TYR:HB3	1:112:A:ILE:HG12	8	0.53
(1,3531)	1:88:A:ASP:H	1:86:A:ARG:HB2	19	0.53
(1,3342)	1:180:A:SER:HB3	1:183:A:ILE:HG13	20	0.53
(1,3320)	1:5:A:ALA:HB1	1:4:A:LYS:HB2	9	0.53
(1,3320)	1:5:A:ALA:HB2	1:4:A:LYS:HB2	9	0.53
(1,3320)	1:5:A:ALA:HB3	1:4:A:LYS:HB2	9	0.53
(1,3217)	1:197:A:LEU:H	1:196:A:ILE:HG12	6	0.53
(1,3045)	1:136:A:GLU:H	1:137:A:TYR:HB2	8	0.53
(1,3034)	1:144:A:ILE:HG12	1:109:A:ARG:HG2	16	0.53
(1,3028)	1:96:A:THR:HG21	1:72:A:ILE:HG12	9	0.53
(1,3028)	1:96:A:THR:HG22	1:72:A:ILE:HG12	9	0.53
(1,3028)	1:96:A:THR:HG23	1:72:A:ILE:HG12	9	0.53
(1,3011)	1:17:A:TYR:H	1:18:A:ASN:HB2	13	0.53
(1,2895)	1:29:A:THR:H	1:28:A:LYS:HG3	7	0.53
(1,2796)	1:203:A:ILE:HD11	1:63:A:ASP:HB2	2	0.53
(1,2796)	1:203:A:ILE:HD12	1:63:A:ASP:HB2	2	0.53
(1,2796)	1:203:A:ILE:HD13	1:63:A:ASP:HB2	2	0.53
(1,2285)	1:86:A:ARG:HD3	1:86:A:ARG:HA	16	0.53
(1,2161)	1:73:A:THR:H	1:72:A:ILE:HG13	4	0.53
(1,2052)	1:109:A:ARG:HB3	1:144:A:ILE:HG13	19	0.53
(1,1845)	1:47:A:LEU:H	1:40:A:SER:HB2	15	0.53
(1,1642)	1:154:A:VAL:H	1:169:A:MET:HB3	16	0.53
(1,1570)	1:175:A:MET:H	1:174:A:GLU:HG3	1	0.53
(1,1516)	1:168:A:VAL:HG21	1:51:A:GLU:HG2	7	0.53
(1,1516)	1:168:A:VAL:HG22	1:51:A:GLU:HG2	7	0.53
(1,1516)	1:168:A:VAL:HG23	1:51:A:GLU:HG2	7	0.53
(1,1310)	1:42:A:LYS:H	1:42:A:LYS:HE2	7	0.53
(1,1054)	1:114:A:LEU:H	1:131:A:SER:HB2	4	0.53
(1,664)	1:140:A:SER:H	1:139:A:PRO:HG3	12	0.53
(1,566)	1:36:A:SER:HB2	1:26:A:VAL:HG11	6	0.53
(1,566)	1:36:A:SER:HB2	1:26:A:VAL:HG12	6	0.53
(1,566)	1:36:A:SER:HB2	1:26:A:VAL:HG13	6	0.53
(1,4087)	1:207:A:ARG:H	1:204:A:LYS:HB3	20	0.52
(1,4070)	1:42:A:LYS:HD3	1:42:A:LYS:HB3	20	0.52
(1,4067)	1:168:A:VAL:HG21	1:51:A:GLU:HB3	3	0.52
(1,4067)	1:168:A:VAL:HG22	1:51:A:GLU:HB3	3	0.52
(1,4067)	1:168:A:VAL:HG23	1:51:A:GLU:HB3	3	0.52
(1,3900)	1:102:A:ALA:HA	1:103:A:VAL:HG21	14	0.52
(1,3900)	1:102:A:ALA:HA	1:103:A:VAL:HG22	14	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3900)	1:102:A:ALA:HA	1:103:A:VAL:HG23	14	0.52
(1,3883)	1:166:A:LYS:HB3	1:51:A:GLU:HG3	17	0.52
(1,3676)	1:197:A:LEU:HD11	1:193:A:VAL:HA	5	0.52
(1,3676)	1:197:A:LEU:HD12	1:193:A:VAL:HA	5	0.52
(1,3676)	1:197:A:LEU:HD13	1:193:A:VAL:HA	5	0.52
(1,3598)	1:24:A:TRP:HH2	1:36:A:SER:HB3	5	0.52
(1,3258)	1:115:A:VAL:HG11	1:113:A:ASP:HB3	10	0.52
(1,3258)	1:115:A:VAL:HG12	1:113:A:ASP:HB3	10	0.52
(1,3258)	1:115:A:VAL:HG13	1:113:A:ASP:HB3	10	0.52
(1,3217)	1:197:A:LEU:H	1:196:A:ILE:HG12	4	0.52
(1,3217)	1:197:A:LEU:H	1:196:A:ILE:HG12	9	0.52
(1,3079)	1:130:A:LYS:HB3	1:132:A:VAL:HG11	8	0.52
(1,3079)	1:130:A:LYS:HB3	1:132:A:VAL:HG12	8	0.52
(1,3079)	1:130:A:LYS:HB3	1:132:A:VAL:HG13	8	0.52
(1,2984)	1:166:A:LYS:HG2	1:51:A:GLU:HG2	8	0.52
(1,2892)	1:60:A:LYS:HB3	1:60:A:LYS:HD3	1	0.52
(1,2624)	1:91:A:THR:H	1:87:A:ILE:HG13	3	0.52
(1,2624)	1:91:A:THR:H	1:87:A:ILE:HG13	20	0.52
(1,2501)	1:37:A:SER:H	1:26:A:VAL:HG11	7	0.52
(1,2501)	1:37:A:SER:H	1:26:A:VAL:HG12	7	0.52
(1,2501)	1:37:A:SER:H	1:26:A:VAL:HG13	7	0.52
(1,2427)	1:129:A:SER:HB3	1:152:A:GLY:HA3	11	0.52
(1,2272)	1:64:A:PHE:HZ	1:65:A:LEU:HD21	4	0.52
(1,2272)	1:64:A:PHE:HZ	1:65:A:LEU:HD22	4	0.52
(1,2272)	1:64:A:PHE:HZ	1:65:A:LEU:HD23	4	0.52
(1,2179)	1:95:A:HIS:H	1:82:A:ASN:HB3	6	0.52
(1,2009)	1:182:A:SER:HB2	1:183:A:ILE:HD11	13	0.52
(1,2009)	1:182:A:SER:HB2	1:183:A:ILE:HD12	13	0.52
(1,2009)	1:182:A:SER:HB2	1:183:A:ILE:HD13	13	0.52
(1,1849)	1:186:A:LYS:HB2	1:106:A:ILE:HD11	20	0.52
(1,1849)	1:186:A:LYS:HB2	1:106:A:ILE:HD12	20	0.52
(1,1849)	1:186:A:LYS:HB2	1:106:A:ILE:HD13	20	0.52
(1,1845)	1:47:A:LEU:H	1:40:A:SER:HB2	7	0.52
(1,1826)	1:184:A:ILE:HD11	1:183:A:ILE:HG13	4	0.52
(1,1826)	1:184:A:ILE:HD12	1:183:A:ILE:HG13	4	0.52
(1,1826)	1:184:A:ILE:HD13	1:183:A:ILE:HG13	4	0.52
(1,1361)	1:200:A:LYS:HB3	1:200:A:LYS:HD2	14	0.52
(1,1179)	1:160:A:GLU:H	1:158:A:MET:HG2	18	0.52
(1,1054)	1:114:A:LEU:H	1:131:A:SER:HB2	8	0.52
(1,958)	1:76:A:LYS:HE2	1:76:A:LYS:HG3	8	0.52
(1,833)	1:60:A:LYS:HE3	1:203:A:ILE:HD11	20	0.52
(1,833)	1:60:A:LYS:HE3	1:203:A:ILE:HD12	20	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,833)	1:60:A:LYS:HE3	1:203:A:ILE:HD13	20	0.52
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG11	12	0.52
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG12	12	0.52
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG13	12	0.52
(1,4220)	1:77:A:SER:HB3	1:78:A:LEU:HG	11	0.51
(1,3862)	1:109:A:ARG:HG2	1:144:A:ILE:HG12	6	0.51
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD21	15	0.51
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD22	15	0.51
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD23	15	0.51
(1,3487)	1:184:A:ILE:H	1:185:A:GLU:HG3	5	0.51
(1,3239)	1:133:A:ASP:HB2	1:132:A:VAL:HG11	3	0.51
(1,3239)	1:133:A:ASP:HB2	1:132:A:VAL:HG12	3	0.51
(1,3239)	1:133:A:ASP:HB2	1:132:A:VAL:HG13	3	0.51
(1,3011)	1:17:A:TYR:H	1:18:A:ASN:HB2	10	0.51
(1,2839)	1:143:A:TYR:HB2	1:139:A:PRO:HB3	7	0.51
(1,2796)	1:203:A:ILE:HD11	1:63:A:ASP:HB2	5	0.51
(1,2796)	1:203:A:ILE:HD12	1:63:A:ASP:HB2	5	0.51
(1,2796)	1:203:A:ILE:HD13	1:63:A:ASP:HB2	5	0.51
(1,2469)	1:201:A:ASP:HA	1:204:A:LYS:HE2	9	0.51
(1,2272)	1:64:A:PHE:HZ	1:65:A:LEU:HD21	3	0.51
(1,2272)	1:64:A:PHE:HZ	1:65:A:LEU:HD22	3	0.51
(1,2272)	1:64:A:PHE:HZ	1:65:A:LEU:HD23	3	0.51
(1,2272)	1:64:A:PHE:HZ	1:65:A:LEU:HD21	6	0.51
(1,2272)	1:64:A:PHE:HZ	1:65:A:LEU:HD22	6	0.51
(1,2272)	1:64:A:PHE:HZ	1:65:A:LEU:HD23	6	0.51
(1,2272)	1:64:A:PHE:HZ	1:65:A:LEU:HD21	13	0.51
(1,2272)	1:64:A:PHE:HZ	1:65:A:LEU:HD22	13	0.51
(1,2272)	1:64:A:PHE:HZ	1:65:A:LEU:HD23	13	0.51
(1,1997)	1:33:A:ILE:HG12	1:193:A:VAL:HA	13	0.51
(1,1874)	1:153:A:PHE:HB2	1:65:A:LEU:HD11	14	0.51
(1,1874)	1:153:A:PHE:HB2	1:65:A:LEU:HD12	14	0.51
(1,1874)	1:153:A:PHE:HB2	1:65:A:LEU:HD13	14	0.51
(1,1826)	1:184:A:ILE:HD11	1:183:A:ILE:HG13	9	0.51
(1,1826)	1:184:A:ILE:HD12	1:183:A:ILE:HG13	9	0.51
(1,1826)	1:184:A:ILE:HD13	1:183:A:ILE:HG13	9	0.51
(1,1826)	1:184:A:ILE:HD11	1:183:A:ILE:HG13	14	0.51
(1,1826)	1:184:A:ILE:HD12	1:183:A:ILE:HG13	14	0.51
(1,1826)	1:184:A:ILE:HD13	1:183:A:ILE:HG13	14	0.51
(1,1054)	1:114:A:LEU:H	1:131:A:SER:HB2	20	0.51
(1,664)	1:140:A:SER:H	1:139:A:PRO:HG3	11	0.51
(1,532)	1:194:A:ASN:HB3	1:76:A:LYS:HG3	16	0.51
(1,527)	1:2:A:ASP:H	1:1:A:MET:HG3	5	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,446)	1:204:A:LYS:HB2	1:204:A:LYS:HD2	17	0.51
(1,368)	1:192:A:LEU:HG	1:171:A:VAL:HG21	13	0.51
(1,368)	1:192:A:LEU:HG	1:171:A:VAL:HG22	13	0.51
(1,368)	1:192:A:LEU:HG	1:171:A:VAL:HG23	13	0.51
(1,201)	1:91:A:THR:H	1:89:A:SER:HB2	17	0.51
(1,9)	1:54:A:ILE:HG21	1:200:A:LYS:HD3	8	0.51
(1,9)	1:54:A:ILE:HG22	1:200:A:LYS:HD3	8	0.51
(1,9)	1:54:A:ILE:HG23	1:200:A:LYS:HD3	8	0.51
(1,4087)	1:207:A:ARG:H	1:204:A:LYS:HB3	11	0.5
(1,4067)	1:168:A:VAL:HG21	1:51:A:GLU:HB3	20	0.5
(1,4067)	1:168:A:VAL:HG22	1:51:A:GLU:HB3	20	0.5
(1,4067)	1:168:A:VAL:HG23	1:51:A:GLU:HB3	20	0.5
(1,4028)	1:72:A:ILE:HG13	1:70:A:ASP:H	7	0.5
(1,3962)	1:56:A:GLU:H	1:56:A:GLU:HG3	18	0.5
(1,3896)	1:130:A:LYS:H	1:148:A:ASN:HB3	20	0.5
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD21	3	0.5
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD22	3	0.5
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD23	3	0.5
(1,3684)	1:61:A:LEU:H	1:56:A:GLU:HG2	10	0.5
(1,3217)	1:197:A:LEU:H	1:196:A:ILE:HG12	14	0.5
(1,3114)	1:22:A:SER:H	1:24:A:TRP:HB2	19	0.5
(1,3079)	1:130:A:LYS:HB3	1:132:A:VAL:HG11	16	0.5
(1,3079)	1:130:A:LYS:HB3	1:132:A:VAL:HG12	16	0.5
(1,3079)	1:130:A:LYS:HB3	1:132:A:VAL:HG13	16	0.5
(1,2892)	1:60:A:LYS:HB3	1:60:A:LYS:HD3	5	0.5
(1,2839)	1:143:A:TYR:HB2	1:139:A:PRO:HB3	2	0.5
(1,2796)	1:203:A:ILE:HD11	1:63:A:ASP:HB2	11	0.5
(1,2796)	1:203:A:ILE:HD12	1:63:A:ASP:HB2	11	0.5
(1,2796)	1:203:A:ILE:HD13	1:63:A:ASP:HB2	11	0.5
(1,2624)	1:91:A:THR:H	1:87:A:ILE:HG13	4	0.5
(1,2404)	1:157:A:PRO:HD2	1:122:A:GLY:HA3	14	0.5
(1,2287)	1:43:A:PHE:H	1:41:A:ARG:HB3	19	0.5
(1,2285)	1:86:A:ARG:HD3	1:86:A:ARG:HA	5	0.5
(1,2161)	1:73:A:THR:H	1:72:A:ILE:HG13	18	0.5
(1,2065)	1:102:A:ALA:HB1	1:105:A:SER:HB3	19	0.5
(1,2065)	1:102:A:ALA:HB2	1:105:A:SER:HB3	19	0.5
(1,2065)	1:102:A:ALA:HB3	1:105:A:SER:HB3	19	0.5
(1,1847)	1:186:A:LYS:HG3	1:183:A:ILE:HD11	20	0.5
(1,1847)	1:186:A:LYS:HG3	1:183:A:ILE:HD12	20	0.5
(1,1847)	1:186:A:LYS:HG3	1:183:A:ILE:HD13	20	0.5
(1,1768)	1:128:A:SER:H	1:152:A:GLY:HA2	12	0.5
(1,1747)	1:205:A:ALA:HA	1:204:A:LYS:HB3	20	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1642)	1:154:A:VAL:H	1:169:A:MET:HB3	12	0.5
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG21	5	0.5
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG22	5	0.5
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG23	5	0.5
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG21	8	0.5
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG22	8	0.5
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG23	8	0.5
(1,1054)	1:114:A:LEU:H	1:131:A:SER:HB2	11	0.5
(1,983)	1:86:A:ARG:HD3	1:86:A:ARG:HB2	16	0.5
(1,958)	1:76:A:LYS:HE2	1:76:A:LYS:HG3	20	0.5
(1,736)	1:61:A:LEU:HG	1:56:A:GLU:HG2	12	0.5
(1,666)	1:137:A:TYR:HB2	1:112:A:ILE:HG12	19	0.5
(1,375)	1:112:A:ILE:HG21	1:95:A:HIS:HB3	19	0.5
(1,375)	1:112:A:ILE:HG22	1:95:A:HIS:HB3	19	0.5
(1,375)	1:112:A:ILE:HG23	1:95:A:HIS:HB3	19	0.5
(1,258)	1:42:A:LYS:H	1:42:A:LYS:HD2	14	0.5
(1,227)	1:168:A:VAL:HG21	1:166:A:LYS:HE3	19	0.5
(1,227)	1:168:A:VAL:HG22	1:166:A:LYS:HE3	19	0.5
(1,227)	1:168:A:VAL:HG23	1:166:A:LYS:HE3	19	0.5
(1,10)	1:203:A:ILE:HA	1:204:A:LYS:HB2	11	0.5
(1,4327)	1:207:A:ARG:HD2	1:207:A:ARG:HA	18	0.49
(1,3778)	1:76:A:LYS:HE3	1:76:A:LYS:HG3	20	0.49
(1,3342)	1:180:A:SER:HB3	1:183:A:ILE:HG13	13	0.49
(1,3110)	1:72:A:ILE:HA	1:71:A:ARG:HB3	3	0.49
(1,3110)	1:72:A:ILE:HA	1:71:A:ARG:HB3	13	0.49
(1,3108)	1:204:A:LYS:HA	1:204:A:LYS:HD3	15	0.49
(1,3011)	1:17:A:TYR:H	1:18:A:ASN:HB2	1	0.49
(1,3011)	1:17:A:TYR:H	1:18:A:ASN:HB2	5	0.49
(1,2501)	1:37:A:SER:H	1:26:A:VAL:HG11	12	0.49
(1,2501)	1:37:A:SER:H	1:26:A:VAL:HG12	12	0.49
(1,2501)	1:37:A:SER:H	1:26:A:VAL:HG13	12	0.49
(1,2167)	1:60:A:LYS:HG3	1:61:A:LEU:HD21	19	0.49
(1,2167)	1:60:A:LYS:HG3	1:61:A:LEU:HD22	19	0.49
(1,2167)	1:60:A:LYS:HG3	1:61:A:LEU:HD23	19	0.49
(1,2161)	1:73:A:THR:H	1:72:A:ILE:HG13	14	0.49
(1,2089)	1:42:A:LYS:H	1:42:A:LYS:HG3	10	0.49
(1,1874)	1:153:A:PHE:HB2	1:65:A:LEU:HD11	4	0.49
(1,1874)	1:153:A:PHE:HB2	1:65:A:LEU:HD12	4	0.49
(1,1874)	1:153:A:PHE:HB2	1:65:A:LEU:HD13	4	0.49
(1,1826)	1:184:A:ILE:HD11	1:183:A:ILE:HG13	15	0.49
(1,1826)	1:184:A:ILE:HD12	1:183:A:ILE:HG13	15	0.49
(1,1826)	1:184:A:ILE:HD13	1:183:A:ILE:HG13	15	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1747)	1:205:A:ALA:HA	1:204:A:LYS:HB3	5	0.49
(1,1747)	1:205:A:ALA:HA	1:204:A:LYS:HB3	11	0.49
(1,1556)	1:160:A:GLU:H	1:159:A:GLU:HB2	17	0.49
(1,1463)	1:91:A:THR:HA	1:117:A:ILE:HG12	8	0.49
(1,1463)	1:91:A:THR:HA	1:117:A:ILE:HG12	18	0.49
(1,1343)	1:129:A:SER:HB2	1:127:A:ILE:HG13	14	0.49
(1,1305)	1:160:A:GLU:H	1:159:A:GLU:HB2	17	0.49
(1,1211)	1:179:A:LEU:HD11	1:183:A:ILE:HG21	8	0.49
(1,1211)	1:179:A:LEU:HD11	1:183:A:ILE:HG22	8	0.49
(1,1211)	1:179:A:LEU:HD11	1:183:A:ILE:HG23	8	0.49
(1,1211)	1:179:A:LEU:HD12	1:183:A:ILE:HG21	8	0.49
(1,1211)	1:179:A:LEU:HD12	1:183:A:ILE:HG22	8	0.49
(1,1211)	1:179:A:LEU:HD12	1:183:A:ILE:HG23	8	0.49
(1,1211)	1:179:A:LEU:HD13	1:183:A:ILE:HG21	8	0.49
(1,1211)	1:179:A:LEU:HD13	1:183:A:ILE:HG22	8	0.49
(1,1211)	1:179:A:LEU:HD13	1:183:A:ILE:HG23	8	0.49
(1,1075)	1:12:A:GLN:H	1:118:A:LYS:HE3	14	0.49
(1,1075)	1:12:A:GLN:H	1:118:A:LYS:HE3	18	0.49
(1,949)	1:151:A:CYS:H	1:149:A:HIS:HB2	15	0.49
(1,646)	1:42:A:LYS:H	1:172:A:GLN:HG2	18	0.49
(1,281)	1:80:A:VAL:HA	1:72:A:ILE:HG12	17	0.49
(1,256)	1:144:A:ILE:H	1:109:A:ARG:HB3	2	0.49
(1,256)	1:144:A:ILE:H	1:109:A:ARG:HB3	3	0.49
(1,195)	1:127:A:ILE:HD11	1:67:A:GLN:HG3	12	0.49
(1,195)	1:127:A:ILE:HD12	1:67:A:GLN:HG3	12	0.49
(1,195)	1:127:A:ILE:HD13	1:67:A:GLN:HG3	12	0.49
(1,4113)	1:98:A:THR:HG21	1:109:A:ARG:HG3	4	0.48
(1,4113)	1:98:A:THR:HG22	1:109:A:ARG:HG3	4	0.48
(1,4113)	1:98:A:THR:HG23	1:109:A:ARG:HG3	4	0.48
(1,4067)	1:168:A:VAL:HG21	1:51:A:GLU:HB3	15	0.48
(1,4067)	1:168:A:VAL:HG22	1:51:A:GLU:HB3	15	0.48
(1,4067)	1:168:A:VAL:HG23	1:51:A:GLU:HB3	15	0.48
(1,3861)	1:54:A:ILE:HB	1:55:A:PRO:HD3	16	0.48
(1,3778)	1:76:A:LYS:HE3	1:76:A:LYS:HG3	8	0.48
(1,3632)	1:137:A:TYR:H	1:136:A:GLU:HG3	13	0.48
(1,3487)	1:184:A:ILE:H	1:185:A:GLU:HG3	4	0.48
(1,3342)	1:180:A:SER:HB3	1:183:A:ILE:HG13	10	0.48
(1,3327)	1:137:A:TYR:H	1:136:A:GLU:HB3	2	0.48
(1,3239)	1:133:A:ASP:HB2	1:132:A:VAL:HG11	15	0.48
(1,3239)	1:133:A:ASP:HB2	1:132:A:VAL:HG12	15	0.48
(1,3239)	1:133:A:ASP:HB2	1:132:A:VAL:HG13	15	0.48
(1,3148)	1:146:A:GLY:H	1:110:A:ASP:HB3	10	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3079)	1:130:A:LYS:HB3	1:132:A:VAL:HG11	14	0.48
(1,3079)	1:130:A:LYS:HB3	1:132:A:VAL:HG12	14	0.48
(1,3079)	1:130:A:LYS:HB3	1:132:A:VAL:HG13	14	0.48
(1,2892)	1:60:A:LYS:HB3	1:60:A:LYS:HD3	18	0.48
(1,2272)	1:64:A:PHE:HZ	1:65:A:LEU:HD21	20	0.48
(1,2272)	1:64:A:PHE:HZ	1:65:A:LEU:HD22	20	0.48
(1,2272)	1:64:A:PHE:HZ	1:65:A:LEU:HD23	20	0.48
(1,2052)	1:109:A:ARG:HB3	1:144:A:ILE:HG13	18	0.48
(1,2038)	1:186:A:LYS:HD2	1:186:A:LYS:HA	20	0.48
(1,1826)	1:184:A:ILE:HD11	1:183:A:ILE:HG13	13	0.48
(1,1826)	1:184:A:ILE:HD12	1:183:A:ILE:HG13	13	0.48
(1,1826)	1:184:A:ILE:HD13	1:183:A:ILE:HG13	13	0.48
(1,1826)	1:184:A:ILE:HD11	1:183:A:ILE:HG13	17	0.48
(1,1826)	1:184:A:ILE:HD12	1:183:A:ILE:HG13	17	0.48
(1,1826)	1:184:A:ILE:HD13	1:183:A:ILE:HG13	17	0.48
(1,1772)	1:157:A:PRO:HG3	1:123:A:ASN:HB2	20	0.48
(1,1642)	1:154:A:VAL:H	1:169:A:MET:HB3	14	0.48
(1,1508)	1:129:A:SER:HB3	1:113:A:ASP:H	12	0.48
(1,1207)	1:90:A:ASP:H	1:4:A:LYS:HE3	16	0.48
(1,958)	1:76:A:LYS:HE2	1:76:A:LYS:HG3	7	0.48
(1,666)	1:137:A:TYR:HB2	1:112:A:ILE:HG12	14	0.48
(1,258)	1:42:A:LYS:H	1:42:A:LYS:HD2	15	0.48
(1,4327)	1:207:A:ARG:HD2	1:207:A:ARG:HA	14	0.47
(1,4170)	1:144:A:ILE:H	1:109:A:ARG:HG2	3	0.47
(1,3759)	1:48:A:TYR:H	1:170:A:PHE:HB3	19	0.47
(1,3632)	1:137:A:TYR:H	1:136:A:GLU:HG3	2	0.47
(1,3580)	1:137:A:TYR:HB3	1:112:A:ILE:HG12	7	0.47
(1,3531)	1:88:A:ASP:H	1:86:A:ARG:HB2	4	0.47
(1,3327)	1:137:A:TYR:H	1:136:A:GLU:HB3	7	0.47
(1,3327)	1:137:A:TYR:H	1:136:A:GLU:HB3	15	0.47
(1,3173)	1:61:A:LEU:H	1:63:A:ASP:HB2	15	0.47
(1,3114)	1:22:A:SER:H	1:24:A:TRP:HB2	12	0.47
(1,2892)	1:60:A:LYS:HB3	1:60:A:LYS:HD3	19	0.47
(1,2624)	1:91:A:THR:H	1:87:A:ILE:HG13	2	0.47
(1,2351)	1:80:A:VAL:H	1:81:A:TYR:HB3	6	0.47
(1,2302)	1:144:A:ILE:H	1:110:A:ASP:HB2	10	0.47
(1,2296)	1:10:A:THR:HG21	1:128:A:SER:HA	20	0.47
(1,2296)	1:10:A:THR:HG22	1:128:A:SER:HA	20	0.47
(1,2296)	1:10:A:THR:HG23	1:128:A:SER:HA	20	0.47
(1,2285)	1:86:A:ARG:HD3	1:86:A:ARG:HA	8	0.47
(1,1997)	1:33:A:ILE:HG12	1:193:A:VAL:HA	1	0.47
(1,1923)	1:71:A:ARG:HB3	1:78:A:LEU:HG	2	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1789)	1:7:A:ALA:HB1	1:8:A:GLN:HG3	20	0.47
(1,1789)	1:7:A:ALA:HB2	1:8:A:GLN:HG3	20	0.47
(1,1789)	1:7:A:ALA:HB3	1:8:A:GLN:HG3	20	0.47
(1,1642)	1:154:A:VAL:H	1:169:A:MET:HB3	10	0.47
(1,1599)	1:173:A:THR:H	1:172:A:GLN:HG3	5	0.47
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG21	1	0.47
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG22	1	0.47
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG23	1	0.47
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG21	11	0.47
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG22	11	0.47
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG23	11	0.47
(1,664)	1:140:A:SER:H	1:139:A:PRO:HG3	16	0.47
(1,375)	1:112:A:ILE:HG21	1:95:A:HIS:HB3	11	0.47
(1,375)	1:112:A:ILE:HG22	1:95:A:HIS:HB3	11	0.47
(1,375)	1:112:A:ILE:HG23	1:95:A:HIS:HB3	11	0.47
(1,256)	1:144:A:ILE:H	1:109:A:ARG:HB3	6	0.47
(1,4288)	1:186:A:LYS:HE2	1:186:A:LYS:HG3	2	0.46
(1,4220)	1:77:A:SER:HB3	1:78:A:LEU:HG	3	0.46
(1,4170)	1:144:A:ILE:H	1:109:A:ARG:HG2	16	0.46
(1,4028)	1:72:A:ILE:HG13	1:70:A:ASP:H	9	0.46
(1,3896)	1:130:A:LYS:H	1:148:A:ASN:HB3	2	0.46
(1,3692)	1:119:A:ARG:H	1:118:A:LYS:HG2	5	0.46
(1,3580)	1:137:A:TYR:HB3	1:112:A:ILE:HG12	13	0.46
(1,3572)	1:184:A:ILE:H	1:186:A:LYS:HE3	3	0.46
(1,3531)	1:88:A:ASP:H	1:86:A:ARG:HB2	20	0.46
(1,3320)	1:5:A:ALA:HB1	1:4:A:LYS:HB2	1	0.46
(1,3320)	1:5:A:ALA:HB2	1:4:A:LYS:HB2	1	0.46
(1,3320)	1:5:A:ALA:HB3	1:4:A:LYS:HB2	1	0.46
(1,3114)	1:22:A:SER:H	1:24:A:TRP:HB2	6	0.46
(1,3110)	1:72:A:ILE:HA	1:71:A:ARG:HB3	2	0.46
(1,3079)	1:130:A:LYS:HB3	1:132:A:VAL:HG11	5	0.46
(1,3079)	1:130:A:LYS:HB3	1:132:A:VAL:HG12	5	0.46
(1,3079)	1:130:A:LYS:HB3	1:132:A:VAL:HG13	5	0.46
(1,2961)	1:156:A:SER:H	1:166:A:LYS:HD2	17	0.46
(1,2770)	1:98:A:THR:H	1:109:A:ARG:HB2	7	0.46
(1,2766)	1:159:A:GLU:HB3	1:160:A:GLU:HG3	16	0.46
(1,2624)	1:91:A:THR:H	1:87:A:ILE:HG13	19	0.46
(1,2469)	1:201:A:ASP:HA	1:204:A:LYS:HE2	10	0.46
(1,2285)	1:86:A:ARG:HD3	1:86:A:ARG:HA	11	0.46
(1,2009)	1:182:A:SER:HB2	1:183:A:ILE:HD11	5	0.46
(1,2009)	1:182:A:SER:HB2	1:183:A:ILE:HD12	5	0.46
(1,2009)	1:182:A:SER:HB2	1:183:A:ILE:HD13	5	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1994)	1:176:A:ARG:H	1:109:A:ARG:HD3	13	0.46
(1,1826)	1:184:A:ILE:HD11	1:183:A:ILE:HG13	5	0.46
(1,1826)	1:184:A:ILE:HD12	1:183:A:ILE:HG13	5	0.46
(1,1826)	1:184:A:ILE:HD13	1:183:A:ILE:HG13	5	0.46
(1,1599)	1:173:A:THR:H	1:172:A:GLN:HG3	3	0.46
(1,1463)	1:91:A:THR:HA	1:117:A:ILE:HG12	9	0.46
(1,1353)	1:15:A:LEU:H	1:14:A:VAL:HG21	4	0.46
(1,1353)	1:15:A:LEU:H	1:14:A:VAL:HG22	4	0.46
(1,1353)	1:15:A:LEU:H	1:14:A:VAL:HG23	4	0.46
(1,1252)	1:130:A:LYS:HB3	1:7:A:ALA:HA	9	0.46
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG21	20	0.46
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG22	20	0.46
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG23	20	0.46
(1,1179)	1:160:A:GLU:H	1:158:A:MET:HG2	15	0.46
(1,1054)	1:114:A:LEU:H	1:131:A:SER:HB2	14	0.46
(1,1030)	1:26:A:VAL:H	1:36:A:SER:HB2	2	0.46
(1,969)	1:100:A:SER:HB3	1:101:A:PHE:HA	12	0.46
(1,889)	1:125:A:ASN:H	1:155:A:CYS:HB2	13	0.46
(1,855)	1:192:A:LEU:H	1:50:A:VAL:HG11	12	0.46
(1,855)	1:192:A:LEU:H	1:50:A:VAL:HG12	12	0.46
(1,855)	1:192:A:LEU:H	1:50:A:VAL:HG13	12	0.46
(1,749)	1:105:A:SER:HB2	1:179:A:LEU:HG	1	0.46
(1,566)	1:36:A:SER:HB2	1:26:A:VAL:HG11	7	0.46
(1,566)	1:36:A:SER:HB2	1:26:A:VAL:HG12	7	0.46
(1,566)	1:36:A:SER:HB2	1:26:A:VAL:HG13	7	0.46
(1,474)	1:144:A:ILE:HG21	1:109:A:ARG:HB3	8	0.46
(1,474)	1:144:A:ILE:HG22	1:109:A:ARG:HB3	8	0.46
(1,474)	1:144:A:ILE:HG23	1:109:A:ARG:HB3	8	0.46
(1,256)	1:144:A:ILE:H	1:109:A:ARG:HB3	16	0.46
(1,216)	1:76:A:LYS:H	1:76:A:LYS:HD2	13	0.46
(1,4170)	1:144:A:ILE:H	1:109:A:ARG:HG2	7	0.45
(1,4067)	1:168:A:VAL:HG21	1:51:A:GLU:HB3	7	0.45
(1,4067)	1:168:A:VAL:HG22	1:51:A:GLU:HB3	7	0.45
(1,4067)	1:168:A:VAL:HG23	1:51:A:GLU:HB3	7	0.45
(1,4028)	1:72:A:ILE:HG13	1:70:A:ASP:H	3	0.45
(1,3988)	1:170:A:PHE:H	1:151:A:CYS:HB2	19	0.45
(1,3598)	1:24:A:TRP:HH2	1:36:A:SER:HB3	7	0.45
(1,3531)	1:88:A:ASP:H	1:86:A:ARG:HB2	10	0.45
(1,3513)	1:211:A:ARG:HA	1:211:A:ARG:HD2	10	0.45
(1,3463)	1:40:A:SER:H	1:45:A:GLY:HA3	18	0.45
(1,3173)	1:61:A:LEU:H	1:63:A:ASP:HB2	20	0.45
(1,3110)	1:72:A:ILE:HA	1:71:A:ARG:HB3	4	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3110)	1:72:A:ILE:HA	1:71:A:ARG:HB3	5	0.45
(1,3110)	1:72:A:ILE:HA	1:71:A:ARG:HB3	20	0.45
(1,2637)	1:187:A:THR:HG21	1:175:A:MET:HG3	8	0.45
(1,2637)	1:187:A:THR:HG22	1:175:A:MET:HG3	8	0.45
(1,2637)	1:187:A:THR:HG23	1:175:A:MET:HG3	8	0.45
(1,2572)	1:151:A:CYS:H	1:152:A:GLY:HA3	5	0.45
(1,2287)	1:43:A:PHE:H	1:41:A:ARG:HB3	12	0.45
(1,1642)	1:154:A:VAL:H	1:169:A:MET:HB3	20	0.45
(1,1252)	1:130:A:LYS:HB3	1:7:A:ALA:HA	16	0.45
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG21	15	0.45
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG22	15	0.45
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG23	15	0.45
(1,1179)	1:160:A:GLU:H	1:158:A:MET:HG2	11	0.45
(1,993)	1:60:A:LYS:HG3	1:63:A:ASP:HB2	10	0.45
(1,691)	1:71:A:ARG:HB2	1:68:A:THR:H	3	0.45
(1,691)	1:71:A:ARG:HB2	1:68:A:THR:H	15	0.45
(1,564)	1:173:A:THR:HA	1:171:A:VAL:HG11	6	0.45
(1,564)	1:173:A:THR:HA	1:171:A:VAL:HG12	6	0.45
(1,564)	1:173:A:THR:HA	1:171:A:VAL:HG13	6	0.45
(1,268)	1:43:A:PHE:H	1:44:A:HIS:HA	15	0.45
(1,258)	1:42:A:LYS:H	1:42:A:LYS:HD2	12	0.45
(1,227)	1:168:A:VAL:HG21	1:166:A:LYS:HE3	10	0.45
(1,227)	1:168:A:VAL:HG22	1:166:A:LYS:HE3	10	0.45
(1,227)	1:168:A:VAL:HG23	1:166:A:LYS:HE3	10	0.45
(1,195)	1:127:A:ILE:HD11	1:67:A:GLN:HG3	4	0.45
(1,195)	1:127:A:ILE:HD12	1:67:A:GLN:HG3	4	0.45
(1,195)	1:127:A:ILE:HD13	1:67:A:GLN:HG3	4	0.45
(1,4214)	1:175:A:MET:HB2	1:174:A:GLU:HG3	2	0.44
(1,3862)	1:109:A:ARG:HG2	1:144:A:ILE:HG12	14	0.44
(1,3655)	1:69:A:GLY:H	1:67:A:GLN:HB3	17	0.44
(1,3473)	1:1:A:MET:HA	1:4:A:LYS:HB3	3	0.44
(1,3471)	1:76:A:LYS:HD2	1:77:A:SER:H	13	0.44
(1,3312)	1:176:A:ARG:H	1:176:A:ARG:HG3	3	0.44
(1,3268)	1:194:A:ASN:HB2	1:193:A:VAL:H	5	0.44
(1,3258)	1:115:A:VAL:HG11	1:113:A:ASP:HB3	3	0.44
(1,3258)	1:115:A:VAL:HG12	1:113:A:ASP:HB3	3	0.44
(1,3258)	1:115:A:VAL:HG13	1:113:A:ASP:HB3	3	0.44
(1,3239)	1:133:A:ASP:HB2	1:132:A:VAL:HG11	5	0.44
(1,3239)	1:133:A:ASP:HB2	1:132:A:VAL:HG12	5	0.44
(1,3239)	1:133:A:ASP:HB2	1:132:A:VAL:HG13	5	0.44
(1,3110)	1:72:A:ILE:HA	1:71:A:ARG:HB3	17	0.44
(1,2624)	1:91:A:THR:H	1:87:A:ILE:HG13	8	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2295)	1:186:A:LYS:H	1:186:A:LYS:HB2	6	0.44
(1,2285)	1:86:A:ARG:HD3	1:86:A:ARG:HA	3	0.44
(1,2272)	1:64:A:PHE:HZ	1:65:A:LEU:HD21	14	0.44
(1,2272)	1:64:A:PHE:HZ	1:65:A:LEU:HD22	14	0.44
(1,2272)	1:64:A:PHE:HZ	1:65:A:LEU:HD23	14	0.44
(1,1809)	1:2:A:ASP:HB2	1:5:A:ALA:HB1	5	0.44
(1,1809)	1:2:A:ASP:HB2	1:5:A:ALA:HB2	5	0.44
(1,1809)	1:2:A:ASP:HB2	1:5:A:ALA:HB3	5	0.44
(1,1768)	1:128:A:SER:H	1:152:A:GLY:HA2	19	0.44
(1,1556)	1:160:A:GLU:H	1:159:A:GLU:HB2	11	0.44
(1,1508)	1:129:A:SER:HB3	1:113:A:ASP:H	19	0.44
(1,1463)	1:91:A:THR:HA	1:117:A:ILE:HG12	6	0.44
(1,1463)	1:91:A:THR:HA	1:117:A:ILE:HG12	7	0.44
(1,1353)	1:15:A:LEU:H	1:14:A:VAL:HG21	16	0.44
(1,1353)	1:15:A:LEU:H	1:14:A:VAL:HG22	16	0.44
(1,1353)	1:15:A:LEU:H	1:14:A:VAL:HG23	16	0.44
(1,1305)	1:160:A:GLU:H	1:159:A:GLU:HB2	11	0.44
(1,1259)	1:25:A:LYS:H	1:24:A:TRP:HE1	3	0.44
(1,1179)	1:160:A:GLU:H	1:158:A:MET:HG2	8	0.44
(1,1054)	1:114:A:LEU:H	1:131:A:SER:HB2	10	0.44
(1,848)	1:67:A:GLN:H	1:65:A:LEU:HD21	14	0.44
(1,848)	1:67:A:GLN:H	1:65:A:LEU:HD22	14	0.44
(1,848)	1:67:A:GLN:H	1:65:A:LEU:HD23	14	0.44
(1,566)	1:36:A:SER:HB2	1:26:A:VAL:HG11	11	0.44
(1,566)	1:36:A:SER:HB2	1:26:A:VAL:HG12	11	0.44
(1,566)	1:36:A:SER:HB2	1:26:A:VAL:HG13	11	0.44
(1,379)	1:69:A:GLY:HA2	1:72:A:ILE:H	8	0.44
(1,345)	1:186:A:LYS:HD2	1:102:A:ALA:HB1	20	0.44
(1,345)	1:186:A:LYS:HD2	1:102:A:ALA:HB2	20	0.44
(1,345)	1:186:A:LYS:HD2	1:102:A:ALA:HB3	20	0.44
(1,303)	1:170:A:PHE:HA	1:50:A:VAL:HG11	5	0.44
(1,303)	1:170:A:PHE:HA	1:50:A:VAL:HG12	5	0.44
(1,303)	1:170:A:PHE:HA	1:50:A:VAL:HG13	5	0.44
(1,3598)	1:24:A:TRP:HH2	1:36:A:SER:HB3	20	0.43
(1,3580)	1:137:A:TYR:HB3	1:112:A:ILE:HG12	5	0.43
(1,3344)	1:38:A:LYS:H	1:46:A:ASN:HB3	16	0.43
(1,3340)	1:18:A:ASN:H	1:15:A:LEU:HB2	14	0.43
(1,3110)	1:72:A:ILE:HA	1:71:A:ARG:HB3	12	0.43
(1,2909)	1:158:A:MET:HA	1:166:A:LYS:HB2	4	0.43
(1,1997)	1:33:A:ILE:HG12	1:193:A:VAL:HA	18	0.43
(1,1826)	1:184:A:ILE:HD11	1:183:A:ILE:HG13	10	0.43
(1,1826)	1:184:A:ILE:HD12	1:183:A:ILE:HG13	10	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1826)	1:184:A:ILE:HD13	1:183:A:ILE:HG13	10	0.43
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG21	3	0.43
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG22	3	0.43
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG23	3	0.43
(1,1179)	1:160:A:GLU:H	1:158:A:MET:HG2	3	0.43
(1,1179)	1:160:A:GLU:H	1:158:A:MET:HG2	9	0.43
(1,1054)	1:114:A:LEU:H	1:131:A:SER:HB2	15	0.43
(1,907)	1:200:A:LYS:HB2	1:197:A:LEU:HD21	6	0.43
(1,907)	1:200:A:LYS:HB2	1:197:A:LEU:HD22	6	0.43
(1,907)	1:200:A:LYS:HB2	1:197:A:LEU:HD23	6	0.43
(1,664)	1:140:A:SER:H	1:139:A:PRO:HG3	20	0.43
(1,588)	1:116:A:TYR:HA	1:115:A:VAL:HB	20	0.43
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG11	5	0.43
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG12	5	0.43
(1,310)	1:51:A:GLU:H	1:35:A:VAL:HG13	5	0.43
(1,258)	1:42:A:LYS:H	1:42:A:LYS:HD2	19	0.43
(1,256)	1:144:A:ILE:H	1:109:A:ARG:HB3	20	0.43
(1,201)	1:91:A:THR:H	1:89:A:SER:HB2	8	0.43
(1,4335)	1:186:A:LYS:H	1:186:A:LYS:HG3	2	0.42
(1,4229)	1:74:A:TRP:H	1:75:A:ASP:HB3	3	0.42
(1,4113)	1:98:A:THR:HG21	1:109:A:ARG:HG3	6	0.42
(1,4113)	1:98:A:THR:HG22	1:109:A:ARG:HG3	6	0.42
(1,4113)	1:98:A:THR:HG23	1:109:A:ARG:HG3	6	0.42
(1,4067)	1:168:A:VAL:HG21	1:51:A:GLU:HB3	5	0.42
(1,4067)	1:168:A:VAL:HG22	1:51:A:GLU:HB3	5	0.42
(1,4067)	1:168:A:VAL:HG23	1:51:A:GLU:HB3	5	0.42
(1,4028)	1:72:A:ILE:HG13	1:70:A:ASP:H	2	0.42
(1,4028)	1:72:A:ILE:HG13	1:70:A:ASP:H	18	0.42
(1,3900)	1:102:A:ALA:HA	1:103:A:VAL:HG21	7	0.42
(1,3900)	1:102:A:ALA:HA	1:103:A:VAL:HG22	7	0.42
(1,3900)	1:102:A:ALA:HA	1:103:A:VAL:HG23	7	0.42
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD21	9	0.42
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD22	9	0.42
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD23	9	0.42
(1,3598)	1:24:A:TRP:HH2	1:36:A:SER:HB3	8	0.42
(1,3487)	1:184:A:ILE:H	1:185:A:GLU:HG3	20	0.42
(1,3342)	1:180:A:SER:HB3	1:183:A:ILE:HG13	1	0.42
(1,3303)	1:101:A:PHE:HB3	1:106:A:ILE:HD11	2	0.42
(1,3303)	1:101:A:PHE:HB3	1:106:A:ILE:HD12	2	0.42
(1,3303)	1:101:A:PHE:HB3	1:106:A:ILE:HD13	2	0.42
(1,3173)	1:61:A:LEU:H	1:63:A:ASP:HB2	8	0.42
(1,3118)	1:86:A:ARG:HA	1:83:A:MET:HG2	18	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2689)	1:105:A:SER:HB3	1:102:A:ALA:HB1	7	0.42
(1,2689)	1:105:A:SER:HB3	1:102:A:ALA:HB2	7	0.42
(1,2689)	1:105:A:SER:HB3	1:102:A:ALA:HB3	7	0.42
(1,2572)	1:151:A:CYS:H	1:152:A:GLY:HA3	2	0.42
(1,2353)	1:132:A:VAL:HG21	1:130:A:LYS:HB3	4	0.42
(1,2353)	1:132:A:VAL:HG22	1:130:A:LYS:HB3	4	0.42
(1,2353)	1:132:A:VAL:HG23	1:130:A:LYS:HB3	4	0.42
(1,2332)	1:78:A:LEU:H	1:76:A:LYS:HB2	11	0.42
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD11	11	0.42
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD12	11	0.42
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD13	11	0.42
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD11	20	0.42
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD12	20	0.42
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD13	20	0.42
(1,2179)	1:95:A:HIS:H	1:82:A:ASN:HB3	8	0.42
(1,2161)	1:73:A:THR:H	1:72:A:ILE:HG13	7	0.42
(1,1997)	1:33:A:ILE:HG12	1:193:A:VAL:HA	17	0.42
(1,1997)	1:33:A:ILE:HG12	1:193:A:VAL:HA	20	0.42
(1,1864)	1:24:A:TRP:H	1:24:A:TRP:HE1	3	0.42
(1,1412)	1:130:A:LYS:HE2	1:130:A:LYS:HG3	8	0.42
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG21	11	0.42
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG22	11	0.42
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG23	11	0.42
(1,1179)	1:160:A:GLU:H	1:158:A:MET:HG2	13	0.42
(1,1054)	1:114:A:LEU:H	1:131:A:SER:HB2	6	0.42
(1,993)	1:60:A:LYS:HG3	1:63:A:ASP:HB2	14	0.42
(1,774)	1:196:A:ILE:HG21	1:197:A:LEU:HG	5	0.42
(1,774)	1:196:A:ILE:HG22	1:197:A:LEU:HG	5	0.42
(1,774)	1:196:A:ILE:HG23	1:197:A:LEU:HG	5	0.42
(1,666)	1:137:A:TYR:HB2	1:112:A:ILE:HG12	20	0.42
(1,511)	1:73:A:THR:H	1:74:A:TRP:HB2	1	0.42
(1,365)	1:145:A:ARG:HG3	1:112:A:ILE:HG13	12	0.42
(1,230)	1:68:A:THR:HA	1:67:A:GLN:HB3	7	0.42
(1,4286)	1:166:A:LYS:H	1:166:A:LYS:HG2	5	0.41
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD21	18	0.41
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD22	18	0.41
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD23	18	0.41
(1,3684)	1:61:A:LEU:H	1:56:A:GLU:HG2	6	0.41
(1,3342)	1:180:A:SER:HB3	1:183:A:ILE:HG13	19	0.41
(1,3110)	1:72:A:ILE:HA	1:71:A:ARG:HB3	10	0.41
(1,3079)	1:130:A:LYS:HB3	1:132:A:VAL:HG11	9	0.41
(1,3079)	1:130:A:LYS:HB3	1:132:A:VAL:HG12	9	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3079)	1:130:A:LYS:HB3	1:132:A:VAL:HG13	9	0.41
(1,2892)	1:60:A:LYS:HB3	1:60:A:LYS:HD3	2	0.41
(1,2892)	1:60:A:LYS:HB3	1:60:A:LYS:HD3	7	0.41
(1,2624)	1:91:A:THR:H	1:87:A:ILE:HG13	13	0.41
(1,2624)	1:91:A:THR:H	1:87:A:ILE:HG13	15	0.41
(1,2572)	1:151:A:CYS:H	1:152:A:GLY:HA3	8	0.41
(1,2427)	1:129:A:SER:HB3	1:152:A:GLY:HA3	20	0.41
(1,1997)	1:33:A:ILE:HG12	1:193:A:VAL:HA	6	0.41
(1,1826)	1:184:A:ILE:HD11	1:183:A:ILE:HG13	11	0.41
(1,1826)	1:184:A:ILE:HD12	1:183:A:ILE:HG13	11	0.41
(1,1826)	1:184:A:ILE:HD13	1:183:A:ILE:HG13	11	0.41
(1,1642)	1:154:A:VAL:H	1:169:A:MET:HB3	7	0.41
(1,1599)	1:173:A:THR:H	1:172:A:GLN:HG3	14	0.41
(1,1570)	1:175:A:MET:H	1:174:A:GLU:HG3	16	0.41
(1,1520)	1:107:A:SER:HB2	1:144:A:ILE:HG21	12	0.41
(1,1520)	1:107:A:SER:HB2	1:144:A:ILE:HG22	12	0.41
(1,1520)	1:107:A:SER:HB2	1:144:A:ILE:HG23	12	0.41
(1,1252)	1:130:A:LYS:HB3	1:7:A:ALA:HA	4	0.41
(1,1135)	1:71:A:ARG:H	1:74:A:TRP:H	2	0.41
(1,851)	1:103:A:VAL:HG21	1:102:A:ALA:HB1	20	0.41
(1,851)	1:103:A:VAL:HG21	1:102:A:ALA:HB2	20	0.41
(1,851)	1:103:A:VAL:HG21	1:102:A:ALA:HB3	20	0.41
(1,851)	1:103:A:VAL:HG22	1:102:A:ALA:HB1	20	0.41
(1,851)	1:103:A:VAL:HG22	1:102:A:ALA:HB2	20	0.41
(1,851)	1:103:A:VAL:HG22	1:102:A:ALA:HB3	20	0.41
(1,851)	1:103:A:VAL:HG23	1:102:A:ALA:HB1	20	0.41
(1,851)	1:103:A:VAL:HG23	1:102:A:ALA:HB2	20	0.41
(1,851)	1:103:A:VAL:HG23	1:102:A:ALA:HB3	20	0.41
(1,664)	1:140:A:SER:H	1:139:A:PRO:HG3	5	0.41
(1,664)	1:140:A:SER:H	1:139:A:PRO:HG3	6	0.41
(1,511)	1:73:A:THR:H	1:74:A:TRP:HB2	7	0.41
(1,474)	1:144:A:ILE:HG21	1:109:A:ARG:HB3	16	0.41
(1,474)	1:144:A:ILE:HG22	1:109:A:ARG:HB3	16	0.41
(1,474)	1:144:A:ILE:HG23	1:109:A:ARG:HB3	16	0.41
(1,4340)	1:40:A:SER:H	1:43:A:PHE:H	5	0.4
(1,4286)	1:166:A:LYS:H	1:166:A:LYS:HG2	6	0.4
(1,4193)	1:24:A:TRP:HZ3	1:49:A:ARG:H	8	0.4
(1,4170)	1:144:A:ILE:H	1:109:A:ARG:HG2	6	0.4
(1,3777)	1:60:A:LYS:HD3	1:60:A:LYS:HA	11	0.4
(1,3732)	1:153:A:PHE:H	1:14:A:VAL:HB	17	0.4
(1,3719)	1:67:A:GLN:HA	1:71:A:ARG:HG3	8	0.4
(1,3513)	1:211:A:ARG:HA	1:211:A:ARG:HD2	19	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3340)	1:18:A:ASN:H	1:15:A:LEU:HB2	3	0.4
(1,3223)	1:175:A:MET:H	1:174:A:GLU:HB3	2	0.4
(1,3110)	1:72:A:ILE:HA	1:71:A:ARG:HB3	19	0.4
(1,3034)	1:144:A:ILE:HG12	1:109:A:ARG:HG2	20	0.4
(1,2984)	1:166:A:LYS:HG2	1:51:A:GLU:HG2	5	0.4
(1,2960)	1:132:A:VAL:H	1:133:A:ASP:HB2	17	0.4
(1,2909)	1:158:A:MET:HA	1:166:A:LYS:HB2	10	0.4
(1,2839)	1:143:A:TYR:HB2	1:139:A:PRO:HB3	17	0.4
(1,2332)	1:78:A:LEU:H	1:76:A:LYS:HB2	5	0.4
(1,2179)	1:95:A:HIS:H	1:82:A:ASN:HB3	7	0.4
(1,2038)	1:186:A:LYS:HD2	1:186:A:LYS:HA	2	0.4
(1,1923)	1:71:A:ARG:HB3	1:78:A:LEU:HG	14	0.4
(1,1886)	1:76:A:LYS:HE2	1:76:A:LYS:HB2	4	0.4
(1,1826)	1:184:A:ILE:HD11	1:183:A:ILE:HG13	18	0.4
(1,1826)	1:184:A:ILE:HD12	1:183:A:ILE:HG13	18	0.4
(1,1826)	1:184:A:ILE:HD13	1:183:A:ILE:HG13	18	0.4
(1,1809)	1:2:A:ASP:HB2	1:5:A:ALA:HB1	19	0.4
(1,1809)	1:2:A:ASP:HB2	1:5:A:ALA:HB2	19	0.4
(1,1809)	1:2:A:ASP:HB2	1:5:A:ALA:HB3	19	0.4
(1,1481)	1:132:A:VAL:HG11	1:130:A:LYS:H	3	0.4
(1,1481)	1:132:A:VAL:HG12	1:130:A:LYS:H	3	0.4
(1,1481)	1:132:A:VAL:HG13	1:130:A:LYS:H	3	0.4
(1,1278)	1:208:A:THR:H	1:207:A:ARG:HD3	18	0.4
(1,1135)	1:71:A:ARG:H	1:74:A:TRP:H	3	0.4
(1,1054)	1:114:A:LEU:H	1:131:A:SER:HB2	5	0.4
(1,958)	1:76:A:LYS:HE2	1:76:A:LYS:HG3	1	0.4
(1,858)	1:101:A:PHE:H	1:102:A:ALA:H	20	0.4
(1,792)	1:21:A:THR:H	1:22:A:SER:HB2	8	0.4
(1,511)	1:73:A:THR:H	1:74:A:TRP:HB2	5	0.4
(1,511)	1:73:A:THR:H	1:74:A:TRP:HB2	14	0.4
(1,511)	1:73:A:THR:H	1:74:A:TRP:HB2	19	0.4
(1,26)	1:98:A:THR:HG21	1:99:A:GLN:HG3	19	0.4
(1,26)	1:98:A:THR:HG22	1:99:A:GLN:HG3	19	0.4
(1,26)	1:98:A:THR:HG23	1:99:A:GLN:HG3	19	0.4
(1,4286)	1:166:A:LYS:H	1:166:A:LYS:HG2	8	0.39
(1,4286)	1:166:A:LYS:H	1:166:A:LYS:HG2	10	0.39
(1,4286)	1:166:A:LYS:H	1:166:A:LYS:HG2	13	0.39
(1,4193)	1:24:A:TRP:HZ3	1:49:A:ARG:H	5	0.39
(1,3777)	1:60:A:LYS:HD3	1:60:A:LYS:HA	13	0.39
(1,3719)	1:67:A:GLN:HA	1:71:A:ARG:HG3	15	0.39
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD21	17	0.39
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD22	17	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD23	17	0.39
(1,3673)	1:65:A:LEU:H	1:66:A:TYR:HA	17	0.39
(1,3239)	1:133:A:ASP:HB2	1:132:A:VAL:HG11	16	0.39
(1,3239)	1:133:A:ASP:HB2	1:132:A:VAL:HG12	16	0.39
(1,3239)	1:133:A:ASP:HB2	1:132:A:VAL:HG13	16	0.39
(1,3173)	1:61:A:LEU:H	1:63:A:ASP:HB2	4	0.39
(1,3110)	1:72:A:ILE:HA	1:71:A:ARG:HB3	8	0.39
(1,3110)	1:72:A:ILE:HA	1:71:A:ARG:HB3	15	0.39
(1,3087)	1:60:A:LYS:HE3	1:60:A:LYS:HG2	1	0.39
(1,2909)	1:158:A:MET:HA	1:166:A:LYS:HB2	19	0.39
(1,2818)	1:60:A:LYS:H	1:60:A:LYS:HD3	9	0.39
(1,2624)	1:91:A:THR:H	1:87:A:ILE:HG13	18	0.39
(1,2572)	1:151:A:CYS:H	1:152:A:GLY:HA3	10	0.39
(1,2427)	1:129:A:SER:HB3	1:152:A:GLY:HA3	1	0.39
(1,2404)	1:157:A:PRO:HD2	1:122:A:GLY:HA3	12	0.39
(1,2179)	1:95:A:HIS:H	1:82:A:ASN:HB3	20	0.39
(1,2161)	1:73:A:THR:H	1:72:A:ILE:HG13	20	0.39
(1,2009)	1:182:A:SER:HB2	1:183:A:ILE:HD11	19	0.39
(1,2009)	1:182:A:SER:HB2	1:183:A:ILE:HD12	19	0.39
(1,2009)	1:182:A:SER:HB2	1:183:A:ILE:HD13	19	0.39
(1,1915)	1:149:A:HIS:H	1:172:A:GLN:HB3	1	0.39
(1,1826)	1:184:A:ILE:HD11	1:183:A:ILE:HG13	2	0.39
(1,1826)	1:184:A:ILE:HD12	1:183:A:ILE:HG13	2	0.39
(1,1826)	1:184:A:ILE:HD13	1:183:A:ILE:HG13	2	0.39
(1,1826)	1:184:A:ILE:HD11	1:183:A:ILE:HG13	19	0.39
(1,1826)	1:184:A:ILE:HD12	1:183:A:ILE:HG13	19	0.39
(1,1826)	1:184:A:ILE:HD13	1:183:A:ILE:HG13	19	0.39
(1,1135)	1:71:A:ARG:H	1:74:A:TRP:H	7	0.39
(1,1032)	1:204:A:LYS:HA	1:207:A:ARG:HG2	20	0.39
(1,958)	1:76:A:LYS:HE2	1:76:A:LYS:HG3	15	0.39
(1,749)	1:105:A:SER:HB2	1:179:A:LEU:HG	14	0.39
(1,749)	1:105:A:SER:HB2	1:179:A:LEU:HG	20	0.39
(1,676)	1:130:A:LYS:HD2	1:10:A:THR:HG21	3	0.39
(1,676)	1:130:A:LYS:HD2	1:10:A:THR:HG22	3	0.39
(1,676)	1:130:A:LYS:HD2	1:10:A:THR:HG23	3	0.39
(1,664)	1:140:A:SER:H	1:139:A:PRO:HG3	2	0.39
(1,664)	1:140:A:SER:H	1:139:A:PRO:HG3	9	0.39
(1,664)	1:140:A:SER:H	1:139:A:PRO:HG3	15	0.39
(1,511)	1:73:A:THR:H	1:74:A:TRP:HB2	17	0.39
(1,474)	1:144:A:ILE:HG21	1:109:A:ARG:HB3	4	0.39
(1,474)	1:144:A:ILE:HG22	1:109:A:ARG:HB3	4	0.39
(1,474)	1:144:A:ILE:HG23	1:109:A:ARG:HB3	4	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,334)	1:71:A:ARG:HG2	1:69:A:GLY:H	18	0.39
(1,4286)	1:166:A:LYS:H	1:166:A:LYS:HG2	7	0.38
(1,4286)	1:166:A:LYS:H	1:166:A:LYS:HG2	20	0.38
(1,4220)	1:77:A:SER:HB3	1:78:A:LEU:HG	2	0.38
(1,4180)	1:81:A:TYR:H	1:68:A:THR:HA	9	0.38
(1,4113)	1:98:A:THR:HG21	1:109:A:ARG:HG3	10	0.38
(1,4113)	1:98:A:THR:HG22	1:109:A:ARG:HG3	10	0.38
(1,4113)	1:98:A:THR:HG23	1:109:A:ARG:HG3	10	0.38
(1,4087)	1:207:A:ARG:H	1:204:A:LYS:HB3	3	0.38
(1,4061)	1:179:A:LEU:H	1:179:A:LEU:HD21	17	0.38
(1,4061)	1:179:A:LEU:H	1:179:A:LEU:HD22	17	0.38
(1,4061)	1:179:A:LEU:H	1:179:A:LEU:HD23	17	0.38
(1,3684)	1:61:A:LEU:H	1:56:A:GLU:HG2	9	0.38
(1,3513)	1:211:A:ARG:HA	1:211:A:ARG:HD2	1	0.38
(1,3421)	1:99:A:GLN:H	1:109:A:ARG:H	3	0.38
(1,3239)	1:133:A:ASP:HB2	1:132:A:VAL:HG11	8	0.38
(1,3239)	1:133:A:ASP:HB2	1:132:A:VAL:HG12	8	0.38
(1,3239)	1:133:A:ASP:HB2	1:132:A:VAL:HG13	8	0.38
(1,3028)	1:96:A:THR:HG21	1:72:A:ILE:HG12	19	0.38
(1,3028)	1:96:A:THR:HG22	1:72:A:ILE:HG12	19	0.38
(1,3028)	1:96:A:THR:HG23	1:72:A:ILE:HG12	19	0.38
(1,2984)	1:166:A:LYS:HG2	1:51:A:GLU:HG2	17	0.38
(1,2839)	1:143:A:TYR:HB2	1:139:A:PRO:HB3	5	0.38
(1,2839)	1:143:A:TYR:HB2	1:139:A:PRO:HB3	6	0.38
(1,2818)	1:60:A:LYS:H	1:60:A:LYS:HD3	1	0.38
(1,2766)	1:159:A:GLU:HB3	1:160:A:GLU:HG3	13	0.38
(1,2689)	1:105:A:SER:HB3	1:102:A:ALA:HB1	14	0.38
(1,2689)	1:105:A:SER:HB3	1:102:A:ALA:HB2	14	0.38
(1,2689)	1:105:A:SER:HB3	1:102:A:ALA:HB3	14	0.38
(1,2550)	1:45:A:GLY:H	1:43:A:PHE:HB3	12	0.38
(1,2404)	1:157:A:PRO:HD2	1:122:A:GLY:HA3	8	0.38
(1,2366)	1:22:A:SER:H	1:38:A:LYS:HD2	14	0.38
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD11	19	0.38
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD12	19	0.38
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD13	19	0.38
(1,1997)	1:33:A:ILE:HG12	1:193:A:VAL:HA	16	0.38
(1,1886)	1:76:A:LYS:HE2	1:76:A:LYS:HB2	13	0.38
(1,1826)	1:184:A:ILE:HD11	1:183:A:ILE:HG13	16	0.38
(1,1826)	1:184:A:ILE:HD12	1:183:A:ILE:HG13	16	0.38
(1,1826)	1:184:A:ILE:HD13	1:183:A:ILE:HG13	16	0.38
(1,1768)	1:128:A:SER:H	1:152:A:GLY:HA2	13	0.38
(1,1700)	1:130:A:LYS:HB3	1:130:A:LYS:HE2	20	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1694)	1:137:A:TYR:HB3	1:136:A:GLU:HG3	18	0.38
(1,1171)	1:76:A:LYS:HD3	1:76:A:LYS:HA	5	0.38
(1,1135)	1:71:A:ARG:H	1:74:A:TRP:H	5	0.38
(1,792)	1:21:A:THR:H	1:22:A:SER:HB2	1	0.38
(1,691)	1:71:A:ARG:HB2	1:68:A:THR:H	7	0.38
(1,588)	1:116:A:TYR:HA	1:115:A:VAL:HB	1	0.38
(1,588)	1:116:A:TYR:HA	1:115:A:VAL:HB	9	0.38
(1,588)	1:116:A:TYR:HA	1:115:A:VAL:HB	16	0.38
(1,511)	1:73:A:THR:H	1:74:A:TRP:HB2	9	0.38
(1,474)	1:144:A:ILE:HG21	1:109:A:ARG:HB3	20	0.38
(1,474)	1:144:A:ILE:HG22	1:109:A:ARG:HB3	20	0.38
(1,474)	1:144:A:ILE:HG23	1:109:A:ARG:HB3	20	0.38
(1,260)	1:145:A:ARG:HG3	1:147:A:TYR:HA	2	0.38
(1,256)	1:144:A:ILE:H	1:109:A:ARG:HB3	12	0.38
(1,52)	1:14:A:VAL:HB	1:16:A:GLY:H	7	0.38
(1,40)	1:187:A:THR:H	1:184:A:ILE:H	18	0.38
(1,4372)	1:206:A:HIS:H	1:203:A:ILE:H	8	0.37
(1,3759)	1:48:A:TYR:H	1:170:A:PHE:HB3	14	0.37
(1,3604)	1:72:A:ILE:HG21	1:73:A:THR:HA	11	0.37
(1,3604)	1:72:A:ILE:HG22	1:73:A:THR:HA	11	0.37
(1,3604)	1:72:A:ILE:HG23	1:73:A:THR:HA	11	0.37
(1,3604)	1:72:A:ILE:HG21	1:73:A:THR:HA	15	0.37
(1,3604)	1:72:A:ILE:HG22	1:73:A:THR:HA	15	0.37
(1,3604)	1:72:A:ILE:HG23	1:73:A:THR:HA	15	0.37
(1,3598)	1:24:A:TRP:HH2	1:36:A:SER:HB3	15	0.37
(1,3537)	1:28:A:LYS:H	1:28:A:LYS:HD2	10	0.37
(1,3513)	1:211:A:ARG:HA	1:211:A:ARG:HD2	4	0.37
(1,3340)	1:18:A:ASN:H	1:15:A:LEU:HB2	18	0.37
(1,3110)	1:72:A:ILE:HA	1:71:A:ARG:HB3	7	0.37
(1,3079)	1:130:A:LYS:HB3	1:132:A:VAL:HG11	6	0.37
(1,3079)	1:130:A:LYS:HB3	1:132:A:VAL:HG12	6	0.37
(1,3079)	1:130:A:LYS:HB3	1:132:A:VAL:HG13	6	0.37
(1,2984)	1:166:A:LYS:HG2	1:51:A:GLU:HG2	13	0.37
(1,2629)	1:84:A:VAL:H	1:83:A:MET:HG2	13	0.37
(1,2332)	1:78:A:LEU:H	1:76:A:LYS:HB2	2	0.37
(1,2332)	1:78:A:LEU:H	1:76:A:LYS:HB2	17	0.37
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD11	3	0.37
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD12	3	0.37
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD13	3	0.37
(1,2014)	1:18:A:ASN:HB2	1:15:A:LEU:HB2	5	0.37
(1,2014)	1:18:A:ASN:HB2	1:15:A:LEU:HB2	13	0.37
(1,1928)	1:8:A:GLN:H	1:8:A:GLN:HG3	9	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1716)	1:134:A:PHE:H	1:112:A:ILE:HB	2	0.37
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB1	18	0.37
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB2	18	0.37
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB3	18	0.37
(1,1516)	1:168:A:VAL:HG21	1:51:A:GLU:HG2	5	0.37
(1,1516)	1:168:A:VAL:HG22	1:51:A:GLU:HG2	5	0.37
(1,1516)	1:168:A:VAL:HG23	1:51:A:GLU:HG2	5	0.37
(1,1135)	1:71:A:ARG:H	1:74:A:TRP:H	13	0.37
(1,1054)	1:114:A:LEU:H	1:131:A:SER:HB2	17	0.37
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD11	6	0.37
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD12	6	0.37
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD13	6	0.37
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD11	9	0.37
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD12	9	0.37
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD13	9	0.37
(1,789)	1:176:A:ARG:HA	1:174:A:GLU:HG2	2	0.37
(1,664)	1:140:A:SER:H	1:139:A:PRO:HG3	4	0.37
(1,664)	1:140:A:SER:H	1:139:A:PRO:HG3	13	0.37
(1,588)	1:116:A:TYR:HA	1:115:A:VAL:HB	11	0.37
(1,588)	1:116:A:TYR:HA	1:115:A:VAL:HB	17	0.37
(1,584)	1:33:A:ILE:HG13	1:196:A:ILE:HG21	18	0.37
(1,584)	1:33:A:ILE:HG13	1:196:A:ILE:HG22	18	0.37
(1,584)	1:33:A:ILE:HG13	1:196:A:ILE:HG23	18	0.37
(1,379)	1:69:A:GLY:HA2	1:72:A:ILE:H	10	0.37
(1,359)	1:34:A:THR:HB	1:26:A:VAL:HG11	13	0.37
(1,359)	1:34:A:THR:HB	1:26:A:VAL:HG12	13	0.37
(1,359)	1:34:A:THR:HB	1:26:A:VAL:HG13	13	0.37
(1,154)	1:197:A:LEU:HD11	1:198:A:ASN:H	5	0.37
(1,154)	1:197:A:LEU:HD12	1:198:A:ASN:H	5	0.37
(1,154)	1:197:A:LEU:HD13	1:198:A:ASN:H	5	0.37
(1,40)	1:187:A:THR:H	1:184:A:ILE:H	8	0.37
(1,4358)	1:71:A:ARG:H	1:74:A:TRP:HD1	17	0.36
(1,4286)	1:166:A:LYS:H	1:166:A:LYS:HG2	3	0.36
(1,4286)	1:166:A:LYS:H	1:166:A:LYS:HG2	14	0.36
(1,4286)	1:166:A:LYS:H	1:166:A:LYS:HG2	16	0.36
(1,4170)	1:144:A:ILE:H	1:109:A:ARG:HG2	4	0.36
(1,4061)	1:179:A:LEU:H	1:179:A:LEU:HD21	8	0.36
(1,4061)	1:179:A:LEU:H	1:179:A:LEU:HD22	8	0.36
(1,4061)	1:179:A:LEU:H	1:179:A:LEU:HD23	8	0.36
(1,3898)	1:166:A:LYS:H	1:156:A:SER:HB3	7	0.36
(1,3604)	1:72:A:ILE:HG21	1:73:A:THR:HA	2	0.36
(1,3604)	1:72:A:ILE:HG22	1:73:A:THR:HA	2	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3604)	1:72:A:ILE:HG23	1:73:A:THR:HA	2	0.36
(1,3513)	1:211:A:ARG:HA	1:211:A:ARG:HD2	3	0.36
(1,3114)	1:22:A:SER:H	1:24:A:TRP:HB2	8	0.36
(1,2988)	1:137:A:TYR:H	1:135:A:PRO:HB2	4	0.36
(1,2960)	1:132:A:VAL:H	1:133:A:ASP:HB2	1	0.36
(1,2839)	1:143:A:TYR:HB2	1:139:A:PRO:HB3	16	0.36
(1,2818)	1:60:A:LYS:H	1:60:A:LYS:HD3	3	0.36
(1,2800)	1:203:A:ILE:HD11	1:54:A:ILE:HB	9	0.36
(1,2800)	1:203:A:ILE:HD12	1:54:A:ILE:HB	9	0.36
(1,2800)	1:203:A:ILE:HD13	1:54:A:ILE:HB	9	0.36
(1,2796)	1:203:A:ILE:HD11	1:63:A:ASP:HB2	1	0.36
(1,2796)	1:203:A:ILE:HD12	1:63:A:ASP:HB2	1	0.36
(1,2796)	1:203:A:ILE:HD13	1:63:A:ASP:HB2	1	0.36
(1,2766)	1:159:A:GLU:HB3	1:160:A:GLU:HG3	20	0.36
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD11	5	0.36
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD12	5	0.36
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD13	5	0.36
(1,1874)	1:153:A:PHE:HB2	1:65:A:LEU:HD11	8	0.36
(1,1874)	1:153:A:PHE:HB2	1:65:A:LEU:HD12	8	0.36
(1,1874)	1:153:A:PHE:HB2	1:65:A:LEU:HD13	8	0.36
(1,1845)	1:47:A:LEU:H	1:40:A:SER:HB2	1	0.36
(1,1826)	1:184:A:ILE:HD11	1:183:A:ILE:HG13	12	0.36
(1,1826)	1:184:A:ILE:HD12	1:183:A:ILE:HG13	12	0.36
(1,1826)	1:184:A:ILE:HD13	1:183:A:ILE:HG13	12	0.36
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB1	16	0.36
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB2	16	0.36
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB3	16	0.36
(1,1516)	1:168:A:VAL:HG21	1:51:A:GLU:HG2	13	0.36
(1,1516)	1:168:A:VAL:HG22	1:51:A:GLU:HG2	13	0.36
(1,1516)	1:168:A:VAL:HG23	1:51:A:GLU:HG2	13	0.36
(1,1489)	1:175:A:MET:H	1:109:A:ARG:HD3	2	0.36
(1,1355)	1:177:A:GLY:HA2	1:144:A:ILE:HG21	17	0.36
(1,1355)	1:177:A:GLY:HA2	1:144:A:ILE:HG22	17	0.36
(1,1355)	1:177:A:GLY:HA2	1:144:A:ILE:HG23	17	0.36
(1,1252)	1:130:A:LYS:HB3	1:7:A:ALA:HA	5	0.36
(1,858)	1:101:A:PHE:H	1:102:A:ALA:H	14	0.36
(1,792)	1:21:A:THR:H	1:22:A:SER:HB2	18	0.36
(1,588)	1:116:A:TYR:HA	1:115:A:VAL:HB	2	0.36
(1,588)	1:116:A:TYR:HA	1:115:A:VAL:HB	3	0.36
(1,588)	1:116:A:TYR:HA	1:115:A:VAL:HB	5	0.36
(1,588)	1:116:A:TYR:HA	1:115:A:VAL:HB	12	0.36
(1,588)	1:116:A:TYR:HA	1:115:A:VAL:HB	13	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,474)	1:144:A:ILE:HG21	1:109:A:ARG:HB3	12	0.36
(1,474)	1:144:A:ILE:HG22	1:109:A:ARG:HB3	12	0.36
(1,474)	1:144:A:ILE:HG23	1:109:A:ARG:HB3	12	0.36
(1,301)	1:6:A:ILE:HA	1:9:A:GLN:HB3	20	0.36
(1,118)	1:25:A:LYS:H	1:25:A:LYS:HG3	16	0.36
(1,4372)	1:206:A:HIS:H	1:203:A:ILE:H	10	0.35
(1,4367)	1:68:A:THR:HG21	1:83:A:MET:HG3	3	0.35
(1,4367)	1:68:A:THR:HG22	1:83:A:MET:HG3	3	0.35
(1,4367)	1:68:A:THR:HG23	1:83:A:MET:HG3	3	0.35
(1,4300)	1:76:A:LYS:H	1:76:A:LYS:HE2	19	0.35
(1,4224)	1:40:A:SER:HA	1:172:A:GLN:HG3	2	0.35
(1,4176)	1:34:A:THR:HG21	1:33:A:ILE:HA	4	0.35
(1,4176)	1:34:A:THR:HG22	1:33:A:ILE:HA	4	0.35
(1,4176)	1:34:A:THR:HG23	1:33:A:ILE:HA	4	0.35
(1,4074)	1:186:A:LYS:H	1:185:A:GLU:HG3	8	0.35
(1,3777)	1:60:A:LYS:HD3	1:60:A:LYS:HA	1	0.35
(1,3604)	1:72:A:ILE:HG21	1:73:A:THR:HA	8	0.35
(1,3604)	1:72:A:ILE:HG22	1:73:A:THR:HA	8	0.35
(1,3604)	1:72:A:ILE:HG23	1:73:A:THR:HA	8	0.35
(1,3531)	1:88:A:ASP:H	1:86:A:ARG:HB2	2	0.35
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG21	20	0.35
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG22	20	0.35
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG23	20	0.35
(1,3429)	1:130:A:LYS:HE2	1:10:A:THR:HG21	8	0.35
(1,3429)	1:130:A:LYS:HE2	1:10:A:THR:HG22	8	0.35
(1,3429)	1:130:A:LYS:HE2	1:10:A:THR:HG23	8	0.35
(1,3421)	1:99:A:GLN:H	1:109:A:ARG:H	1	0.35
(1,3110)	1:72:A:ILE:HA	1:71:A:ARG:HB3	14	0.35
(1,2960)	1:132:A:VAL:H	1:133:A:ASP:HB2	6	0.35
(1,2834)	1:207:A:ARG:H	1:207:A:ARG:HG3	13	0.35
(1,2825)	1:68:A:THR:H	1:71:A:ARG:HB2	3	0.35
(1,2825)	1:68:A:THR:H	1:71:A:ARG:HB2	15	0.35
(1,2427)	1:129:A:SER:HB3	1:152:A:GLY:HA3	9	0.35
(1,2404)	1:157:A:PRO:HD2	1:122:A:GLY:HA3	4	0.35
(1,2353)	1:132:A:VAL:HG21	1:130:A:LYS:HB3	12	0.35
(1,2353)	1:132:A:VAL:HG22	1:130:A:LYS:HB3	12	0.35
(1,2353)	1:132:A:VAL:HG23	1:130:A:LYS:HB3	12	0.35
(1,2332)	1:78:A:LEU:H	1:76:A:LYS:HB2	20	0.35
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD11	1	0.35
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD12	1	0.35
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD13	1	0.35
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD11	4	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD12	4	0.35
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD13	4	0.35
(1,2179)	1:95:A:HIS:H	1:82:A:ASN:HB3	14	0.35
(1,1570)	1:175:A:MET:H	1:174:A:GLU:HG3	17	0.35
(1,1556)	1:160:A:GLU:H	1:159:A:GLU:HB2	10	0.35
(1,1305)	1:160:A:GLU:H	1:159:A:GLU:HB2	10	0.35
(1,1252)	1:130:A:LYS:HB3	1:7:A:ALA:HA	15	0.35
(1,1165)	1:169:A:MET:HA	1:49:A:ARG:HG3	18	0.35
(1,1135)	1:71:A:ARG:H	1:74:A:TRP:H	6	0.35
(1,1135)	1:71:A:ARG:H	1:74:A:TRP:H	18	0.35
(1,1033)	1:144:A:ILE:H	1:109:A:ARG:HD3	2	0.35
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG11	10	0.35
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG12	10	0.35
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG13	10	0.35
(1,666)	1:137:A:TYR:HB2	1:112:A:ILE:HG12	6	0.35
(1,666)	1:137:A:TYR:HB2	1:112:A:ILE:HG12	9	0.35
(1,664)	1:140:A:SER:H	1:139:A:PRO:HG3	14	0.35
(1,588)	1:116:A:TYR:HA	1:115:A:VAL:HB	6	0.35
(1,584)	1:33:A:ILE:HG13	1:196:A:ILE:HG21	9	0.35
(1,584)	1:33:A:ILE:HG13	1:196:A:ILE:HG22	9	0.35
(1,584)	1:33:A:ILE:HG13	1:196:A:ILE:HG23	9	0.35
(1,511)	1:73:A:THR:H	1:74:A:TRP:HB2	6	0.35
(1,474)	1:144:A:ILE:HG21	1:109:A:ARG:HB3	14	0.35
(1,474)	1:144:A:ILE:HG22	1:109:A:ARG:HB3	14	0.35
(1,474)	1:144:A:ILE:HG23	1:109:A:ARG:HB3	14	0.35
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB1	4	0.35
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB2	4	0.35
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB3	4	0.35
(1,368)	1:192:A:LEU:HG	1:171:A:VAL:HG21	10	0.35
(1,368)	1:192:A:LEU:HG	1:171:A:VAL:HG22	10	0.35
(1,368)	1:192:A:LEU:HG	1:171:A:VAL:HG23	10	0.35
(1,299)	1:191:A:ASN:HB3	1:171:A:VAL:HG11	13	0.35
(1,299)	1:191:A:ASN:HB3	1:171:A:VAL:HG12	13	0.35
(1,299)	1:191:A:ASN:HB3	1:171:A:VAL:HG13	13	0.35
(1,230)	1:68:A:THR:HA	1:67:A:GLN:HB3	10	0.35
(1,40)	1:187:A:THR:H	1:184:A:ILE:H	11	0.35
(1,4372)	1:206:A:HIS:H	1:203:A:ILE:H	15	0.34
(1,4346)	1:197:A:LEU:H	1:194:A:ASN:HB3	8	0.34
(1,4325)	1:203:A:ILE:HG21	1:61:A:LEU:H	18	0.34
(1,4325)	1:203:A:ILE:HG22	1:61:A:LEU:H	18	0.34
(1,4325)	1:203:A:ILE:HG23	1:61:A:LEU:H	18	0.34
(1,4288)	1:186:A:LYS:HE2	1:186:A:LYS:HG3	6	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4286)	1:166:A:LYS:H	1:166:A:LYS:HG2	1	0.34
(1,4286)	1:166:A:LYS:H	1:166:A:LYS:HG2	2	0.34
(1,4228)	1:170:A:PHE:H	1:171:A:VAL:HG11	6	0.34
(1,4228)	1:170:A:PHE:H	1:171:A:VAL:HG12	6	0.34
(1,4228)	1:170:A:PHE:H	1:171:A:VAL:HG13	6	0.34
(1,4074)	1:186:A:LYS:H	1:185:A:GLU:HG3	11	0.34
(1,4070)	1:42:A:LYS:HD3	1:42:A:LYS:HB3	11	0.34
(1,4067)	1:168:A:VAL:HG21	1:51:A:GLU:HB3	10	0.34
(1,4067)	1:168:A:VAL:HG22	1:51:A:GLU:HB3	10	0.34
(1,4067)	1:168:A:VAL:HG23	1:51:A:GLU:HB3	10	0.34
(1,3692)	1:119:A:ARG:H	1:118:A:LYS:HG2	17	0.34
(1,3624)	1:179:A:LEU:HA	1:106:A:ILE:HG12	16	0.34
(1,3604)	1:72:A:ILE:HG21	1:73:A:THR:HA	3	0.34
(1,3604)	1:72:A:ILE:HG22	1:73:A:THR:HA	3	0.34
(1,3604)	1:72:A:ILE:HG23	1:73:A:THR:HA	3	0.34
(1,3604)	1:72:A:ILE:HG21	1:73:A:THR:HA	20	0.34
(1,3604)	1:72:A:ILE:HG22	1:73:A:THR:HA	20	0.34
(1,3604)	1:72:A:ILE:HG23	1:73:A:THR:HA	20	0.34
(1,3599)	1:131:A:SER:H	1:132:A:VAL:HA	12	0.34
(1,3522)	1:112:A:ILE:H	1:96:A:THR:HB	10	0.34
(1,3486)	1:36:A:SER:HA	1:24:A:TRP:HA	12	0.34
(1,3303)	1:101:A:PHE:HB3	1:106:A:ILE:HD11	3	0.34
(1,3303)	1:101:A:PHE:HB3	1:106:A:ILE:HD12	3	0.34
(1,3303)	1:101:A:PHE:HB3	1:106:A:ILE:HD13	3	0.34
(1,3258)	1:115:A:VAL:HG11	1:113:A:ASP:HB3	18	0.34
(1,3258)	1:115:A:VAL:HG12	1:113:A:ASP:HB3	18	0.34
(1,3258)	1:115:A:VAL:HG13	1:113:A:ASP:HB3	18	0.34
(1,3138)	1:76:A:LYS:HE3	1:76:A:LYS:HB2	4	0.34
(1,2818)	1:60:A:LYS:H	1:60:A:LYS:HD3	20	0.34
(1,2800)	1:203:A:ILE:HD11	1:54:A:ILE:HB	4	0.34
(1,2800)	1:203:A:ILE:HD12	1:54:A:ILE:HB	4	0.34
(1,2800)	1:203:A:ILE:HD13	1:54:A:ILE:HB	4	0.34
(1,2766)	1:159:A:GLU:HB3	1:160:A:GLU:HG3	7	0.34
(1,2689)	1:105:A:SER:HB3	1:102:A:ALA:HB1	1	0.34
(1,2689)	1:105:A:SER:HB3	1:102:A:ALA:HB2	1	0.34
(1,2689)	1:105:A:SER:HB3	1:102:A:ALA:HB3	1	0.34
(1,2629)	1:84:A:VAL:H	1:83:A:MET:HG2	7	0.34
(1,2572)	1:151:A:CYS:H	1:152:A:GLY:HA3	4	0.34
(1,2332)	1:78:A:LEU:H	1:76:A:LYS:HB2	18	0.34
(1,2295)	1:186:A:LYS:H	1:186:A:LYS:HB2	20	0.34
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD11	6	0.34
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD12	6	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD13	6	0.34
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD11	7	0.34
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD12	7	0.34
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD13	7	0.34
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD11	17	0.34
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD12	17	0.34
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD13	17	0.34
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD11	18	0.34
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD12	18	0.34
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD13	18	0.34
(1,1826)	1:184:A:ILE:HD11	1:183:A:ILE:HG13	20	0.34
(1,1826)	1:184:A:ILE:HD12	1:183:A:ILE:HG13	20	0.34
(1,1826)	1:184:A:ILE:HD13	1:183:A:ILE:HG13	20	0.34
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB1	6	0.34
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB2	6	0.34
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB3	6	0.34
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB1	11	0.34
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB2	11	0.34
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB3	11	0.34
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB1	12	0.34
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB2	12	0.34
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB3	12	0.34
(1,1553)	1:57:A:SER:H	1:58:A:PRO:HD3	18	0.34
(1,1412)	1:130:A:LYS:HE2	1:130:A:LYS:HG3	18	0.34
(1,1054)	1:114:A:LEU:H	1:131:A:SER:HB2	12	0.34
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD11	4	0.34
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD12	4	0.34
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD13	4	0.34
(1,958)	1:76:A:LYS:HE2	1:76:A:LYS:HG3	2	0.34
(1,949)	1:151:A:CYS:H	1:149:A:HIS:HB2	7	0.34
(1,666)	1:137:A:TYR:HB2	1:112:A:ILE:HG12	4	0.34
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD11	14	0.34
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD12	14	0.34
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD13	14	0.34
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD11	14	0.34
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD12	14	0.34
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD13	14	0.34
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD11	14	0.34
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD12	14	0.34
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD13	14	0.34
(1,588)	1:116:A:TYR:HA	1:115:A:VAL:HB	4	0.34
(1,588)	1:116:A:TYR:HA	1:115:A:VAL:HB	18	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,584)	1:33:A:ILE:HG13	1:196:A:ILE:HG21	1	0.34
(1,584)	1:33:A:ILE:HG13	1:196:A:ILE:HG22	1	0.34
(1,584)	1:33:A:ILE:HG13	1:196:A:ILE:HG23	1	0.34
(1,532)	1:194:A:ASN:HB3	1:76:A:LYS:HG3	18	0.34
(1,511)	1:73:A:THR:H	1:74:A:TRP:HB2	12	0.34
(1,511)	1:73:A:THR:H	1:74:A:TRP:HB2	15	0.34
(1,511)	1:73:A:THR:H	1:74:A:TRP:HB2	18	0.34
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB1	14	0.34
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB2	14	0.34
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB3	14	0.34
(1,258)	1:42:A:LYS:H	1:42:A:LYS:HD2	18	0.34
(1,52)	1:14:A:VAL:HB	1:16:A:GLY:H	8	0.34
(1,4379)	1:130:A:LYS:HB3	1:10:A:THR:HG21	2	0.33
(1,4379)	1:130:A:LYS:HB3	1:10:A:THR:HG22	2	0.33
(1,4379)	1:130:A:LYS:HB3	1:10:A:THR:HG23	2	0.33
(1,4372)	1:206:A:HIS:H	1:203:A:ILE:H	12	0.33
(1,4358)	1:71:A:ARG:H	1:74:A:TRP:HD1	12	0.33
(1,4286)	1:166:A:LYS:H	1:166:A:LYS:HG2	11	0.33
(1,4286)	1:166:A:LYS:H	1:166:A:LYS:HG2	12	0.33
(1,4074)	1:186:A:LYS:H	1:185:A:GLU:HG3	4	0.33
(1,4067)	1:168:A:VAL:HG21	1:51:A:GLU:HB3	2	0.33
(1,4067)	1:168:A:VAL:HG22	1:51:A:GLU:HB3	2	0.33
(1,4067)	1:168:A:VAL:HG23	1:51:A:GLU:HB3	2	0.33
(1,3988)	1:170:A:PHE:H	1:151:A:CYS:HB2	10	0.33
(1,3975)	1:208:A:THR:H	1:204:A:LYS:HB3	5	0.33
(1,3937)	1:18:A:ASN:HB2	1:17:A:TYR:HB3	14	0.33
(1,3732)	1:153:A:PHE:H	1:14:A:VAL:HB	4	0.33
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD21	7	0.33
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD22	7	0.33
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD23	7	0.33
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD21	12	0.33
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD22	12	0.33
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD23	12	0.33
(1,3604)	1:72:A:ILE:HG21	1:73:A:THR:HA	4	0.33
(1,3604)	1:72:A:ILE:HG22	1:73:A:THR:HA	4	0.33
(1,3604)	1:72:A:ILE:HG23	1:73:A:THR:HA	4	0.33
(1,3566)	1:134:A:PHE:HB3	1:132:A:VAL:HB	17	0.33
(1,3522)	1:112:A:ILE:H	1:96:A:THR:HB	9	0.33
(1,2988)	1:137:A:TYR:H	1:135:A:PRO:HB2	6	0.33
(1,2818)	1:60:A:LYS:H	1:60:A:LYS:HD3	11	0.33
(1,2800)	1:203:A:ILE:HD11	1:54:A:ILE:HB	1	0.33
(1,2800)	1:203:A:ILE:HD12	1:54:A:ILE:HB	1	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2800)	1:203:A:ILE:HD13	1:54:A:ILE:HB	1	0.33
(1,2766)	1:159:A:GLU:HB3	1:160:A:GLU:HG3	8	0.33
(1,2624)	1:91:A:THR:H	1:87:A:ILE:HG13	6	0.33
(1,2332)	1:78:A:LEU:H	1:76:A:LYS:HB2	8	0.33
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD11	4	0.33
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD12	4	0.33
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD13	4	0.33
(1,2045)	1:117:A:ILE:HD11	1:67:A:GLN:HG3	2	0.33
(1,2045)	1:117:A:ILE:HD12	1:67:A:GLN:HG3	2	0.33
(1,2045)	1:117:A:ILE:HD13	1:67:A:GLN:HG3	2	0.33
(1,1997)	1:33:A:ILE:HG12	1:193:A:VAL:HA	3	0.33
(1,1997)	1:33:A:ILE:HG12	1:193:A:VAL:HA	8	0.33
(1,1830)	1:114:A:LEU:H	1:132:A:VAL:HA	18	0.33
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB1	8	0.33
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB2	8	0.33
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB3	8	0.33
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB1	10	0.33
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB2	10	0.33
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB3	10	0.33
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB1	14	0.33
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB2	14	0.33
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB3	14	0.33
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB1	15	0.33
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB2	15	0.33
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB3	15	0.33
(1,1556)	1:160:A:GLU:H	1:159:A:GLU:HB2	1	0.33
(1,1481)	1:132:A:VAL:HG11	1:130:A:LYS:H	20	0.33
(1,1481)	1:132:A:VAL:HG12	1:130:A:LYS:H	20	0.33
(1,1481)	1:132:A:VAL:HG13	1:130:A:LYS:H	20	0.33
(1,1463)	1:91:A:THR:HA	1:117:A:ILE:HG12	13	0.33
(1,1441)	1:123:A:ASN:H	1:157:A:PRO:HB2	14	0.33
(1,1400)	1:136:A:GLU:HG2	1:136:A:GLU:H	4	0.33
(1,1305)	1:160:A:GLU:H	1:159:A:GLU:HB2	1	0.33
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB1	18	0.33
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB2	18	0.33
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB3	18	0.33
(1,1179)	1:160:A:GLU:H	1:158:A:MET:HG2	20	0.33
(1,1151)	1:18:A:ASN:HB2	1:49:A:ARG:HG3	18	0.33
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD11	13	0.33
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD12	13	0.33
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD13	13	0.33
(1,983)	1:86:A:ARG:HD3	1:86:A:ARG:HB2	14	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,858)	1:101:A:PHE:H	1:102:A:ALA:H	12	0.33
(1,664)	1:140:A:SER:H	1:139:A:PRO:HG3	3	0.33
(1,664)	1:140:A:SER:H	1:139:A:PRO:HG3	18	0.33
(1,588)	1:116:A:TYR:HA	1:115:A:VAL:HB	8	0.33
(1,588)	1:116:A:TYR:HA	1:115:A:VAL:HB	14	0.33
(1,588)	1:116:A:TYR:HA	1:115:A:VAL:HB	15	0.33
(1,588)	1:116:A:TYR:HA	1:115:A:VAL:HB	19	0.33
(1,568)	1:73:A:THR:HA	1:72:A:ILE:HG12	10	0.33
(1,511)	1:73:A:THR:H	1:74:A:TRP:HB2	20	0.33
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB1	6	0.33
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB2	6	0.33
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB3	6	0.33
(1,368)	1:192:A:LEU:HG	1:171:A:VAL:HG21	16	0.33
(1,368)	1:192:A:LEU:HG	1:171:A:VAL:HG22	16	0.33
(1,368)	1:192:A:LEU:HG	1:171:A:VAL:HG23	16	0.33
(1,258)	1:42:A:LYS:H	1:42:A:LYS:HD2	13	0.33
(1,42)	1:46:A:ASN:HB2	1:45:A:GLY:H	13	0.33
(1,40)	1:187:A:THR:H	1:184:A:ILE:H	13	0.33
(1,40)	1:187:A:THR:H	1:184:A:ILE:H	19	0.33
(1,3)	1:76:A:LYS:HE3	1:197:A:LEU:HD11	2	0.33
(1,3)	1:76:A:LYS:HE3	1:197:A:LEU:HD12	2	0.33
(1,3)	1:76:A:LYS:HE3	1:197:A:LEU:HD13	2	0.33
(1,4286)	1:166:A:LYS:H	1:166:A:LYS:HG2	4	0.32
(1,3962)	1:56:A:GLU:H	1:56:A:GLU:HG3	17	0.32
(1,3898)	1:166:A:LYS:H	1:156:A:SER:HB3	4	0.32
(1,3898)	1:166:A:LYS:H	1:156:A:SER:HB3	6	0.32
(1,3898)	1:166:A:LYS:H	1:156:A:SER:HB3	18	0.32
(1,3898)	1:166:A:LYS:H	1:156:A:SER:HB3	19	0.32
(1,3733)	1:3:A:PHE:H	1:4:A:LYS:HA	9	0.32
(1,3632)	1:137:A:TYR:H	1:136:A:GLU:HG3	3	0.32
(1,3604)	1:72:A:ILE:HG21	1:73:A:THR:HA	7	0.32
(1,3604)	1:72:A:ILE:HG22	1:73:A:THR:HA	7	0.32
(1,3604)	1:72:A:ILE:HG23	1:73:A:THR:HA	7	0.32
(1,3604)	1:72:A:ILE:HG21	1:73:A:THR:HA	13	0.32
(1,3604)	1:72:A:ILE:HG22	1:73:A:THR:HA	13	0.32
(1,3604)	1:72:A:ILE:HG23	1:73:A:THR:HA	13	0.32
(1,3604)	1:72:A:ILE:HG21	1:73:A:THR:HA	14	0.32
(1,3604)	1:72:A:ILE:HG22	1:73:A:THR:HA	14	0.32
(1,3604)	1:72:A:ILE:HG23	1:73:A:THR:HA	14	0.32
(1,3599)	1:131:A:SER:H	1:132:A:VAL:HA	20	0.32
(1,3566)	1:134:A:PHE:HB3	1:132:A:VAL:HB	5	0.32
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD11	18	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD12	18	0.32
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD13	18	0.32
(1,3561)	1:53:A:ILE:HG21	1:32:A:LYS:HE3	2	0.32
(1,3561)	1:53:A:ILE:HG22	1:32:A:LYS:HE3	2	0.32
(1,3561)	1:53:A:ILE:HG23	1:32:A:LYS:HE3	2	0.32
(1,3473)	1:1:A:MET:HA	1:4:A:LYS:HB3	6	0.32
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG21	11	0.32
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG22	11	0.32
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG23	11	0.32
(1,3340)	1:18:A:ASN:H	1:15:A:LEU:HB2	11	0.32
(1,2988)	1:137:A:TYR:H	1:135:A:PRO:HB2	14	0.32
(1,2847)	1:71:A:ARG:HD2	1:71:A:ARG:HB2	12	0.32
(1,2800)	1:203:A:ILE:HD11	1:54:A:ILE:HB	11	0.32
(1,2800)	1:203:A:ILE:HD12	1:54:A:ILE:HB	11	0.32
(1,2800)	1:203:A:ILE:HD13	1:54:A:ILE:HB	11	0.32
(1,2620)	1:188:A:MET:HB2	1:189:A:PRO:HD3	13	0.32
(1,2404)	1:157:A:PRO:HD2	1:122:A:GLY:HA3	3	0.32
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD11	6	0.32
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD12	6	0.32
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD13	6	0.32
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD11	9	0.32
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD12	9	0.32
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD13	9	0.32
(1,2020)	1:129:A:SER:H	1:116:A:TYR:H	6	0.32
(1,1994)	1:176:A:ARG:H	1:109:A:ARG:HD3	7	0.32
(1,1694)	1:137:A:TYR:HB3	1:136:A:GLU:HG3	12	0.32
(1,1665)	1:74:A:TRP:HZ2	1:202:A:GLY:HA2	8	0.32
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB1	1	0.32
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB2	1	0.32
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB3	1	0.32
(1,1553)	1:57:A:SER:H	1:58:A:PRO:HD3	1	0.32
(1,1553)	1:57:A:SER:H	1:58:A:PRO:HD3	7	0.32
(1,1553)	1:57:A:SER:H	1:58:A:PRO:HD3	19	0.32
(1,1481)	1:132:A:VAL:HG11	1:130:A:LYS:H	8	0.32
(1,1481)	1:132:A:VAL:HG12	1:130:A:LYS:H	8	0.32
(1,1481)	1:132:A:VAL:HG13	1:130:A:LYS:H	8	0.32
(1,1135)	1:71:A:ARG:H	1:74:A:TRP:H	9	0.32
(1,1054)	1:114:A:LEU:H	1:131:A:SER:HB2	16	0.32
(1,1054)	1:114:A:LEU:H	1:131:A:SER:HB2	19	0.32
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD11	14	0.32
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD12	14	0.32
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD13	14	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD11	15	0.32
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD12	15	0.32
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD13	15	0.32
(1,858)	1:101:A:PHE:H	1:102:A:ALA:H	8	0.32
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG11	2	0.32
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG12	2	0.32
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG13	2	0.32
(1,691)	1:71:A:ARG:HB2	1:68:A:THR:H	16	0.32
(1,588)	1:116:A:TYR:HA	1:115:A:VAL:HB	10	0.32
(1,258)	1:42:A:LYS:H	1:42:A:LYS:HD2	17	0.32
(1,256)	1:144:A:ILE:H	1:109:A:ARG:HB3	18	0.32
(1,199)	1:10:A:THR:HG21	1:8:A:GLN:H	19	0.32
(1,199)	1:10:A:THR:HG22	1:8:A:GLN:H	19	0.32
(1,199)	1:10:A:THR:HG23	1:8:A:GLN:H	19	0.32
(1,40)	1:187:A:THR:H	1:184:A:ILE:H	3	0.32
(1,40)	1:187:A:THR:H	1:184:A:ILE:H	5	0.32
(1,40)	1:187:A:THR:H	1:184:A:ILE:H	14	0.32
(1,40)	1:187:A:THR:H	1:184:A:ILE:H	17	0.32
(1,4376)	1:200:A:LYS:HD3	1:54:A:ILE:H	15	0.31
(1,4362)	1:184:A:ILE:HG21	1:185:A:GLU:HG3	18	0.31
(1,4362)	1:184:A:ILE:HG22	1:185:A:GLU:HG3	18	0.31
(1,4362)	1:184:A:ILE:HG23	1:185:A:GLU:HG3	18	0.31
(1,4286)	1:166:A:LYS:H	1:166:A:LYS:HG2	9	0.31
(1,4228)	1:170:A:PHE:H	1:171:A:VAL:HG11	13	0.31
(1,4228)	1:170:A:PHE:H	1:171:A:VAL:HG12	13	0.31
(1,4228)	1:170:A:PHE:H	1:171:A:VAL:HG13	13	0.31
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG21	16	0.31
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG22	16	0.31
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG23	16	0.31
(1,3898)	1:166:A:LYS:H	1:156:A:SER:HB3	14	0.31
(1,3733)	1:3:A:PHE:H	1:4:A:LYS:HA	4	0.31
(1,3732)	1:153:A:PHE:H	1:14:A:VAL:HB	14	0.31
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD21	19	0.31
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD22	19	0.31
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD23	19	0.31
(1,3684)	1:61:A:LEU:H	1:56:A:GLU:HG2	19	0.31
(1,3604)	1:72:A:ILE:HG21	1:73:A:THR:HA	5	0.31
(1,3604)	1:72:A:ILE:HG22	1:73:A:THR:HA	5	0.31
(1,3604)	1:72:A:ILE:HG23	1:73:A:THR:HA	5	0.31
(1,3604)	1:72:A:ILE:HG21	1:73:A:THR:HA	16	0.31
(1,3604)	1:72:A:ILE:HG22	1:73:A:THR:HA	16	0.31
(1,3604)	1:72:A:ILE:HG23	1:73:A:THR:HA	16	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3604)	1:72:A:ILE:HG21	1:73:A:THR:HA	18	0.31
(1,3604)	1:72:A:ILE:HG22	1:73:A:THR:HA	18	0.31
(1,3604)	1:72:A:ILE:HG23	1:73:A:THR:HA	18	0.31
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD11	9	0.31
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD12	9	0.31
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD13	9	0.31
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD11	10	0.31
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD12	10	0.31
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD13	10	0.31
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD11	11	0.31
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD12	11	0.31
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD13	11	0.31
(1,3487)	1:184:A:ILE:H	1:185:A:GLU:HG3	1	0.31
(1,3487)	1:184:A:ILE:H	1:185:A:GLU:HG3	18	0.31
(1,3486)	1:36:A:SER:HA	1:24:A:TRP:HA	3	0.31
(1,3476)	1:200:A:LYS:HB3	1:200:A:LYS:HE3	1	0.31
(1,3465)	1:71:A:ARG:HB2	1:65:A:LEU:HD11	10	0.31
(1,3465)	1:71:A:ARG:HB2	1:65:A:LEU:HD12	10	0.31
(1,3465)	1:71:A:ARG:HB2	1:65:A:LEU:HD13	10	0.31
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG21	16	0.31
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG22	16	0.31
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG23	16	0.31
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG21	9	0.31
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG22	9	0.31
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG23	9	0.31
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG21	12	0.31
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG22	12	0.31
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG23	12	0.31
(1,3340)	1:18:A:ASN:H	1:15:A:LEU:HB2	13	0.31
(1,3268)	1:194:A:ASN:HB2	1:193:A:VAL:H	8	0.31
(1,3173)	1:61:A:LEU:H	1:63:A:ASP:HB2	2	0.31
(1,3075)	1:192:A:LEU:H	1:193:A:VAL:HG11	15	0.31
(1,3075)	1:192:A:LEU:H	1:193:A:VAL:HG12	15	0.31
(1,3075)	1:192:A:LEU:H	1:193:A:VAL:HG13	15	0.31
(1,3047)	1:145:A:ARG:H	1:145:A:ARG:HD3	11	0.31
(1,3045)	1:136:A:GLU:H	1:137:A:TYR:HB2	6	0.31
(1,2839)	1:143:A:TYR:HB2	1:139:A:PRO:HB3	14	0.31
(1,2818)	1:60:A:LYS:H	1:60:A:LYS:HD3	13	0.31
(1,2800)	1:203:A:ILE:HD11	1:54:A:ILE:HB	5	0.31
(1,2800)	1:203:A:ILE:HD12	1:54:A:ILE:HB	5	0.31
(1,2800)	1:203:A:ILE:HD13	1:54:A:ILE:HB	5	0.31
(1,2620)	1:188:A:MET:HB2	1:189:A:PRO:HD3	20	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2427)	1:129:A:SER:HB3	1:152:A:GLY:HA3	10	0.31
(1,2332)	1:78:A:LEU:H	1:76:A:LYS:HB2	7	0.31
(1,2309)	1:129:A:SER:HB3	1:113:A:ASP:HB3	17	0.31
(1,2287)	1:43:A:PHE:H	1:41:A:ARG:HB3	17	0.31
(1,2284)	1:34:A:THR:HG21	1:26:A:VAL:HG21	19	0.31
(1,2284)	1:34:A:THR:HG21	1:26:A:VAL:HG22	19	0.31
(1,2284)	1:34:A:THR:HG21	1:26:A:VAL:HG23	19	0.31
(1,2284)	1:34:A:THR:HG22	1:26:A:VAL:HG21	19	0.31
(1,2284)	1:34:A:THR:HG22	1:26:A:VAL:HG22	19	0.31
(1,2284)	1:34:A:THR:HG22	1:26:A:VAL:HG23	19	0.31
(1,2284)	1:34:A:THR:HG23	1:26:A:VAL:HG21	19	0.31
(1,2284)	1:34:A:THR:HG23	1:26:A:VAL:HG22	19	0.31
(1,2284)	1:34:A:THR:HG23	1:26:A:VAL:HG23	19	0.31
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD11	8	0.31
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD12	8	0.31
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD13	8	0.31
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD11	16	0.31
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD12	16	0.31
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD13	16	0.31
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD11	18	0.31
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD12	18	0.31
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD13	18	0.31
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD11	13	0.31
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD12	13	0.31
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD13	13	0.31
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD11	17	0.31
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD12	17	0.31
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD13	17	0.31
(1,2128)	1:66:A:TYR:H	1:71:A:ARG:H	6	0.31
(1,2030)	1:28:A:LYS:H	1:34:A:THR:HA	16	0.31
(1,1826)	1:184:A:ILE:HD11	1:183:A:ILE:HG13	3	0.31
(1,1826)	1:184:A:ILE:HD12	1:183:A:ILE:HG13	3	0.31
(1,1826)	1:184:A:ILE:HD13	1:183:A:ILE:HG13	3	0.31
(1,1823)	1:207:A:ARG:HA	1:207:A:ARG:HG2	5	0.31
(1,1716)	1:134:A:PHE:H	1:112:A:ILE:HB	12	0.31
(1,1672)	1:79:A:GLN:HG2	1:99:A:GLN:HB2	20	0.31
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB1	7	0.31
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB2	7	0.31
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB3	7	0.31
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB1	9	0.31
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB2	9	0.31
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB3	9	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB1	13	0.31
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB2	13	0.31
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB3	13	0.31
(1,1553)	1:57:A:SER:H	1:58:A:PRO:HD3	15	0.31
(1,1302)	1:198:A:ASN:H	1:76:A:LYS:HG3	17	0.31
(1,1272)	1:48:A:TYR:H	1:171:A:VAL:HG21	7	0.31
(1,1272)	1:48:A:TYR:H	1:171:A:VAL:HG22	7	0.31
(1,1272)	1:48:A:TYR:H	1:171:A:VAL:HG23	7	0.31
(1,1130)	1:101:A:PHE:H	1:100:A:SER:HB3	7	0.31
(1,858)	1:101:A:PHE:H	1:102:A:ALA:H	16	0.31
(1,855)	1:192:A:LEU:H	1:50:A:VAL:HG11	4	0.31
(1,855)	1:192:A:LEU:H	1:50:A:VAL:HG12	4	0.31
(1,855)	1:192:A:LEU:H	1:50:A:VAL:HG13	4	0.31
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG11	14	0.31
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG12	14	0.31
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG13	14	0.31
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG11	15	0.31
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG12	15	0.31
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG13	15	0.31
(1,770)	1:53:A:ILE:HD11	1:32:A:LYS:HE2	17	0.31
(1,770)	1:53:A:ILE:HD12	1:32:A:LYS:HE2	17	0.31
(1,770)	1:53:A:ILE:HD13	1:32:A:LYS:HE2	17	0.31
(1,588)	1:116:A:TYR:HA	1:115:A:VAL:HB	7	0.31
(1,584)	1:33:A:ILE:HG13	1:196:A:ILE:HG21	7	0.31
(1,584)	1:33:A:ILE:HG13	1:196:A:ILE:HG22	7	0.31
(1,584)	1:33:A:ILE:HG13	1:196:A:ILE:HG23	7	0.31
(1,474)	1:144:A:ILE:HG21	1:109:A:ARG:HB3	10	0.31
(1,474)	1:144:A:ILE:HG22	1:109:A:ARG:HB3	10	0.31
(1,474)	1:144:A:ILE:HG23	1:109:A:ARG:HB3	10	0.31
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB1	3	0.31
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB2	3	0.31
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB3	3	0.31
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB1	17	0.31
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB2	17	0.31
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB3	17	0.31
(1,317)	1:160:A:GLU:H	1:160:A:GLU:HG3	16	0.31
(1,144)	1:202:A:GLY:H	1:200:A:LYS:HB2	1	0.31
(1,118)	1:25:A:LYS:H	1:25:A:LYS:HG3	15	0.31
(1,102)	1:73:A:THR:HB	1:72:A:ILE:HG13	17	0.31
(1,60)	1:76:A:LYS:HE2	1:76:A:LYS:HD2	3	0.31
(1,60)	1:76:A:LYS:HE2	1:76:A:LYS:HD2	9	0.31
(1,60)	1:76:A:LYS:HE2	1:76:A:LYS:HD2	11	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,60)	1:76:A:LYS:HE2	1:76:A:LYS:HD2	12	0.31
(1,52)	1:14:A:VAL:HB	1:16:A:GLY:H	2	0.31
(1,52)	1:14:A:VAL:HB	1:16:A:GLY:H	18	0.31
(1,42)	1:46:A:ASN:HB2	1:45:A:GLY:H	15	0.31
(1,40)	1:187:A:THR:H	1:184:A:ILE:H	4	0.31
(1,40)	1:187:A:THR:H	1:184:A:ILE:H	9	0.31
(1,40)	1:187:A:THR:H	1:184:A:ILE:H	10	0.31
(1,40)	1:187:A:THR:H	1:184:A:ILE:H	20	0.31
(1,26)	1:98:A:THR:HG21	1:99:A:GLN:HG3	10	0.31
(1,26)	1:98:A:THR:HG22	1:99:A:GLN:HG3	10	0.31
(1,26)	1:98:A:THR:HG23	1:99:A:GLN:HG3	10	0.31
(1,4362)	1:184:A:ILE:HG21	1:185:A:GLU:HG3	15	0.3
(1,4362)	1:184:A:ILE:HG22	1:185:A:GLU:HG3	15	0.3
(1,4362)	1:184:A:ILE:HG23	1:185:A:GLU:HG3	15	0.3
(1,4362)	1:184:A:ILE:HG21	1:185:A:GLU:HG3	19	0.3
(1,4362)	1:184:A:ILE:HG22	1:185:A:GLU:HG3	19	0.3
(1,4362)	1:184:A:ILE:HG23	1:185:A:GLU:HG3	19	0.3
(1,4358)	1:71:A:ARG:H	1:74:A:TRP:HD1	10	0.3
(1,4325)	1:203:A:ILE:HG21	1:61:A:LEU:H	11	0.3
(1,4325)	1:203:A:ILE:HG22	1:61:A:LEU:H	11	0.3
(1,4325)	1:203:A:ILE:HG23	1:61:A:LEU:H	11	0.3
(1,4285)	1:105:A:SER:HB2	1:183:A:ILE:HG21	16	0.3
(1,4285)	1:105:A:SER:HB2	1:183:A:ILE:HG22	16	0.3
(1,4285)	1:105:A:SER:HB2	1:183:A:ILE:HG23	16	0.3
(1,4228)	1:170:A:PHE:H	1:171:A:VAL:HG11	3	0.3
(1,4228)	1:170:A:PHE:H	1:171:A:VAL:HG12	3	0.3
(1,4228)	1:170:A:PHE:H	1:171:A:VAL:HG13	3	0.3
(1,4133)	1:28:A:LYS:H	1:37:A:SER:H	1	0.3
(1,4113)	1:98:A:THR:HG21	1:109:A:ARG:HG3	14	0.3
(1,4113)	1:98:A:THR:HG22	1:109:A:ARG:HG3	14	0.3
(1,4113)	1:98:A:THR:HG23	1:109:A:ARG:HG3	14	0.3
(1,4067)	1:168:A:VAL:HG21	1:51:A:GLU:HB3	17	0.3
(1,4067)	1:168:A:VAL:HG22	1:51:A:GLU:HB3	17	0.3
(1,4067)	1:168:A:VAL:HG23	1:51:A:GLU:HB3	17	0.3
(1,3898)	1:166:A:LYS:H	1:156:A:SER:HB3	9	0.3
(1,3898)	1:166:A:LYS:H	1:156:A:SER:HB3	12	0.3
(1,3898)	1:166:A:LYS:H	1:156:A:SER:HB3	17	0.3
(1,3732)	1:153:A:PHE:H	1:14:A:VAL:HB	3	0.3
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD11	8	0.3
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD12	8	0.3
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD13	8	0.3
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD11	16	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD12	16	0.3
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD13	16	0.3
(1,3340)	1:18:A:ASN:H	1:15:A:LEU:HB2	5	0.3
(1,3327)	1:137:A:TYR:H	1:136:A:GLU:HB3	10	0.3
(1,3258)	1:115:A:VAL:HG11	1:113:A:ASP:HB3	20	0.3
(1,3258)	1:115:A:VAL:HG12	1:113:A:ASP:HB3	20	0.3
(1,3258)	1:115:A:VAL:HG13	1:113:A:ASP:HB3	20	0.3
(1,3173)	1:61:A:LEU:H	1:63:A:ASP:HB2	6	0.3
(1,3047)	1:145:A:ARG:H	1:145:A:ARG:HD3	6	0.3
(1,3045)	1:136:A:GLU:H	1:137:A:TYR:HB2	2	0.3
(1,2988)	1:137:A:TYR:H	1:135:A:PRO:HB2	1	0.3
(1,2960)	1:132:A:VAL:H	1:133:A:ASP:HB2	9	0.3
(1,2960)	1:132:A:VAL:H	1:133:A:ASP:HB2	13	0.3
(1,2800)	1:203:A:ILE:HD11	1:54:A:ILE:HB	7	0.3
(1,2800)	1:203:A:ILE:HD12	1:54:A:ILE:HB	7	0.3
(1,2800)	1:203:A:ILE:HD13	1:54:A:ILE:HB	7	0.3
(1,2800)	1:203:A:ILE:HD11	1:54:A:ILE:HB	18	0.3
(1,2800)	1:203:A:ILE:HD12	1:54:A:ILE:HB	18	0.3
(1,2800)	1:203:A:ILE:HD13	1:54:A:ILE:HB	18	0.3
(1,2679)	1:67:A:GLN:H	1:68:A:THR:HA	7	0.3
(1,2679)	1:67:A:GLN:H	1:68:A:THR:HA	10	0.3
(1,2572)	1:151:A:CYS:H	1:152:A:GLY:HA3	15	0.3
(1,2294)	1:153:A:PHE:H	1:154:A:VAL:HB	13	0.3
(1,2294)	1:153:A:PHE:H	1:154:A:VAL:HB	17	0.3
(1,2284)	1:34:A:THR:HG21	1:26:A:VAL:HG21	3	0.3
(1,2284)	1:34:A:THR:HG21	1:26:A:VAL:HG22	3	0.3
(1,2284)	1:34:A:THR:HG21	1:26:A:VAL:HG23	3	0.3
(1,2284)	1:34:A:THR:HG22	1:26:A:VAL:HG21	3	0.3
(1,2284)	1:34:A:THR:HG22	1:26:A:VAL:HG22	3	0.3
(1,2284)	1:34:A:THR:HG22	1:26:A:VAL:HG23	3	0.3
(1,2284)	1:34:A:THR:HG23	1:26:A:VAL:HG21	3	0.3
(1,2284)	1:34:A:THR:HG23	1:26:A:VAL:HG22	3	0.3
(1,2284)	1:34:A:THR:HG23	1:26:A:VAL:HG23	3	0.3
(1,2284)	1:34:A:THR:HG21	1:26:A:VAL:HG21	17	0.3
(1,2284)	1:34:A:THR:HG21	1:26:A:VAL:HG22	17	0.3
(1,2284)	1:34:A:THR:HG21	1:26:A:VAL:HG23	17	0.3
(1,2284)	1:34:A:THR:HG22	1:26:A:VAL:HG21	17	0.3
(1,2284)	1:34:A:THR:HG22	1:26:A:VAL:HG22	17	0.3
(1,2284)	1:34:A:THR:HG22	1:26:A:VAL:HG23	17	0.3
(1,2284)	1:34:A:THR:HG23	1:26:A:VAL:HG21	17	0.3
(1,2284)	1:34:A:THR:HG23	1:26:A:VAL:HG22	17	0.3
(1,2284)	1:34:A:THR:HG23	1:26:A:VAL:HG23	17	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD11	10	0.3
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD12	10	0.3
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD13	10	0.3
(1,2161)	1:73:A:THR:H	1:72:A:ILE:HG13	15	0.3
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD11	16	0.3
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD12	16	0.3
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD13	16	0.3
(1,2089)	1:42:A:LYS:H	1:42:A:LYS:HG3	14	0.3
(1,2037)	1:107:A:SER:H	1:106:A:ILE:HG12	6	0.3
(1,2020)	1:129:A:SER:H	1:116:A:TYR:H	11	0.3
(1,1694)	1:137:A:TYR:HB3	1:136:A:GLU:HG3	5	0.3
(1,1553)	1:57:A:SER:H	1:58:A:PRO:HD3	9	0.3
(1,1553)	1:57:A:SER:H	1:58:A:PRO:HD3	17	0.3
(1,1481)	1:132:A:VAL:HG11	1:130:A:LYS:H	14	0.3
(1,1481)	1:132:A:VAL:HG12	1:130:A:LYS:H	14	0.3
(1,1481)	1:132:A:VAL:HG13	1:130:A:LYS:H	14	0.3
(1,1400)	1:136:A:GLU:HG2	1:136:A:GLU:H	1	0.3
(1,1400)	1:136:A:GLU:HG2	1:136:A:GLU:H	9	0.3
(1,1400)	1:136:A:GLU:HG2	1:136:A:GLU:H	11	0.3
(1,1400)	1:136:A:GLU:HG2	1:136:A:GLU:H	14	0.3
(1,1400)	1:136:A:GLU:HG2	1:136:A:GLU:H	18	0.3
(1,1400)	1:136:A:GLU:HG2	1:136:A:GLU:H	19	0.3
(1,1364)	1:98:A:THR:HG21	1:109:A:ARG:HB2	7	0.3
(1,1364)	1:98:A:THR:HG22	1:109:A:ARG:HB2	7	0.3
(1,1364)	1:98:A:THR:HG23	1:109:A:ARG:HB2	7	0.3
(1,1315)	1:37:A:SER:H	1:49:A:ARG:H	8	0.3
(1,1295)	1:203:A:ILE:HG21	1:204:A:LYS:HB3	17	0.3
(1,1295)	1:203:A:ILE:HG22	1:204:A:LYS:HB3	17	0.3
(1,1295)	1:203:A:ILE:HG23	1:204:A:LYS:HB3	17	0.3
(1,1135)	1:71:A:ARG:H	1:74:A:TRP:H	1	0.3
(1,1135)	1:71:A:ARG:H	1:74:A:TRP:H	14	0.3
(1,1076)	1:146:A:GLY:H	1:109:A:ARG:HD3	14	0.3
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD11	7	0.3
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD12	7	0.3
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD13	7	0.3
(1,949)	1:151:A:CYS:H	1:149:A:HIS:HB2	1	0.3
(1,858)	1:101:A:PHE:H	1:102:A:ALA:H	4	0.3
(1,637)	1:25:A:LYS:H	1:36:A:SER:HB2	6	0.3
(1,584)	1:33:A:ILE:HG13	1:196:A:ILE:HG21	10	0.3
(1,584)	1:33:A:ILE:HG13	1:196:A:ILE:HG22	10	0.3
(1,584)	1:33:A:ILE:HG13	1:196:A:ILE:HG23	10	0.3
(1,532)	1:194:A:ASN:HB3	1:76:A:LYS:HG3	2	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,511)	1:73:A:THR:H	1:74:A:TRP:HB2	8	0.3
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB1	8	0.3
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB2	8	0.3
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB3	8	0.3
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB1	13	0.3
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB2	13	0.3
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB3	13	0.3
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB1	18	0.3
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB2	18	0.3
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB3	18	0.3
(1,268)	1:43:A:PHE:H	1:44:A:HIS:HA	6	0.3
(1,144)	1:202:A:GLY:H	1:200:A:LYS:HB2	12	0.3
(1,118)	1:25:A:LYS:H	1:25:A:LYS:HG3	12	0.3
(1,118)	1:25:A:LYS:H	1:25:A:LYS:HG3	18	0.3
(1,71)	1:112:A:ILE:HD11	1:111:A:PHE:HB3	16	0.3
(1,71)	1:112:A:ILE:HD12	1:111:A:PHE:HB3	16	0.3
(1,71)	1:112:A:ILE:HD13	1:111:A:PHE:HB3	16	0.3
(1,60)	1:76:A:LYS:HE2	1:76:A:LYS:HD2	10	0.3
(1,42)	1:46:A:ASN:HB2	1:45:A:GLY:H	7	0.3
(1,40)	1:187:A:THR:H	1:184:A:ILE:H	12	0.3
(1,4286)	1:166:A:LYS:H	1:166:A:LYS:HG2	15	0.29
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG21	10	0.29
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG22	10	0.29
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG23	10	0.29
(1,4139)	1:18:A:ASN:H	1:17:A:TYR:HB3	17	0.29
(1,4133)	1:28:A:LYS:H	1:37:A:SER:H	5	0.29
(1,4133)	1:28:A:LYS:H	1:37:A:SER:H	16	0.29
(1,4057)	1:145:A:ARG:H	1:143:A:TYR:HA	17	0.29
(1,3604)	1:72:A:ILE:HG21	1:73:A:THR:HA	1	0.29
(1,3604)	1:72:A:ILE:HG22	1:73:A:THR:HA	1	0.29
(1,3604)	1:72:A:ILE:HG23	1:73:A:THR:HA	1	0.29
(1,3566)	1:134:A:PHE:HB3	1:132:A:VAL:HB	13	0.29
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD11	5	0.29
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD12	5	0.29
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD13	5	0.29
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD11	6	0.29
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD12	6	0.29
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD13	6	0.29
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD11	7	0.29
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD12	7	0.29
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD13	7	0.29
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD11	14	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD12	14	0.29
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD13	14	0.29
(1,3522)	1:112:A:ILE:H	1:96:A:THR:HB	11	0.29
(1,3465)	1:71:A:ARG:HB2	1:65:A:LEU:HD11	16	0.29
(1,3465)	1:71:A:ARG:HB2	1:65:A:LEU:HD12	16	0.29
(1,3465)	1:71:A:ARG:HB2	1:65:A:LEU:HD13	16	0.29
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG21	15	0.29
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG22	15	0.29
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG23	15	0.29
(1,3242)	1:168:A:VAL:H	1:155:A:CYS:HB2	2	0.29
(1,3242)	1:168:A:VAL:H	1:155:A:CYS:HB2	3	0.29
(1,3242)	1:168:A:VAL:H	1:155:A:CYS:HB2	8	0.29
(1,3082)	1:92:A:PHE:H	1:87:A:ILE:HG13	12	0.29
(1,2988)	1:137:A:TYR:H	1:135:A:PRO:HB2	19	0.29
(1,2800)	1:203:A:ILE:HD11	1:54:A:ILE:HB	15	0.29
(1,2800)	1:203:A:ILE:HD12	1:54:A:ILE:HB	15	0.29
(1,2800)	1:203:A:ILE:HD13	1:54:A:ILE:HB	15	0.29
(1,2800)	1:203:A:ILE:HD11	1:54:A:ILE:HB	19	0.29
(1,2800)	1:203:A:ILE:HD12	1:54:A:ILE:HB	19	0.29
(1,2800)	1:203:A:ILE:HD13	1:54:A:ILE:HB	19	0.29
(1,2777)	1:73:A:THR:HG21	1:202:A:GLY:HA2	18	0.29
(1,2777)	1:73:A:THR:HG22	1:202:A:GLY:HA2	18	0.29
(1,2777)	1:73:A:THR:HG23	1:202:A:GLY:HA2	18	0.29
(1,2332)	1:78:A:LEU:H	1:76:A:LYS:HB2	15	0.29
(1,2294)	1:153:A:PHE:H	1:154:A:VAL:HB	3	0.29
(1,2287)	1:43:A:PHE:H	1:41:A:ARG:HB3	9	0.29
(1,2284)	1:34:A:THR:HG21	1:26:A:VAL:HG21	8	0.29
(1,2284)	1:34:A:THR:HG21	1:26:A:VAL:HG22	8	0.29
(1,2284)	1:34:A:THR:HG21	1:26:A:VAL:HG23	8	0.29
(1,2284)	1:34:A:THR:HG22	1:26:A:VAL:HG21	8	0.29
(1,2284)	1:34:A:THR:HG22	1:26:A:VAL:HG22	8	0.29
(1,2284)	1:34:A:THR:HG22	1:26:A:VAL:HG23	8	0.29
(1,2284)	1:34:A:THR:HG23	1:26:A:VAL:HG21	8	0.29
(1,2284)	1:34:A:THR:HG23	1:26:A:VAL:HG22	8	0.29
(1,2284)	1:34:A:THR:HG23	1:26:A:VAL:HG23	8	0.29
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG11	8	0.29
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG12	8	0.29
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG13	8	0.29
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG11	8	0.29
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG12	8	0.29
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG13	8	0.29
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG11	8	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG12	8	0.29
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG13	8	0.29
(1,2252)	1:6:A:ILE:H	1:8:A:GLN:HG3	8	0.29
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD11	12	0.29
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD12	12	0.29
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD13	12	0.29
(1,2167)	1:60:A:LYS:HG3	1:61:A:LEU:HD21	5	0.29
(1,2167)	1:60:A:LYS:HG3	1:61:A:LEU:HD22	5	0.29
(1,2167)	1:60:A:LYS:HG3	1:61:A:LEU:HD23	5	0.29
(1,2161)	1:73:A:THR:H	1:72:A:ILE:HG13	6	0.29
(1,1826)	1:184:A:ILE:HD11	1:183:A:ILE:HG13	1	0.29
(1,1826)	1:184:A:ILE:HD12	1:183:A:ILE:HG13	1	0.29
(1,1826)	1:184:A:ILE:HD13	1:183:A:ILE:HG13	1	0.29
(1,1751)	1:99:A:GLN:H	1:77:A:SER:HB2	2	0.29
(1,1580)	1:174:A:GLU:H	1:147:A:TYR:HA	2	0.29
(1,1570)	1:175:A:MET:H	1:174:A:GLU:HG3	9	0.29
(1,1556)	1:160:A:GLU:H	1:159:A:GLU:HB2	3	0.29
(1,1553)	1:57:A:SER:H	1:58:A:PRO:HD3	2	0.29
(1,1553)	1:57:A:SER:H	1:58:A:PRO:HD3	11	0.29
(1,1516)	1:168:A:VAL:HG21	1:51:A:GLU:HG2	19	0.29
(1,1516)	1:168:A:VAL:HG22	1:51:A:GLU:HG2	19	0.29
(1,1516)	1:168:A:VAL:HG23	1:51:A:GLU:HG2	19	0.29
(1,1489)	1:175:A:MET:H	1:109:A:ARG:HD3	12	0.29
(1,1463)	1:91:A:THR:HA	1:117:A:ILE:HG12	2	0.29
(1,1400)	1:136:A:GLU:HG2	1:136:A:GLU:H	20	0.29
(1,1305)	1:160:A:GLU:H	1:159:A:GLU:HB2	3	0.29
(1,1294)	1:54:A:ILE:HG12	1:200:A:LYS:HE3	14	0.29
(1,1135)	1:71:A:ARG:H	1:74:A:TRP:H	12	0.29
(1,1135)	1:71:A:ARG:H	1:74:A:TRP:H	16	0.29
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD11	1	0.29
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD12	1	0.29
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD13	1	0.29
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD11	17	0.29
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD12	17	0.29
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD13	17	0.29
(1,906)	1:98:A:THR:HG21	1:96:A:THR:HG21	16	0.29
(1,906)	1:98:A:THR:HG21	1:96:A:THR:HG22	16	0.29
(1,906)	1:98:A:THR:HG21	1:96:A:THR:HG23	16	0.29
(1,906)	1:98:A:THR:HG22	1:96:A:THR:HG21	16	0.29
(1,906)	1:98:A:THR:HG22	1:96:A:THR:HG22	16	0.29
(1,906)	1:98:A:THR:HG22	1:96:A:THR:HG23	16	0.29
(1,906)	1:98:A:THR:HG23	1:96:A:THR:HG21	16	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,906)	1:98:A:THR:HG23	1:96:A:THR:HG22	16	0.29
(1,906)	1:98:A:THR:HG23	1:96:A:THR:HG23	16	0.29
(1,851)	1:103:A:VAL:HG21	1:102:A:ALA:HB1	14	0.29
(1,851)	1:103:A:VAL:HG21	1:102:A:ALA:HB2	14	0.29
(1,851)	1:103:A:VAL:HG21	1:102:A:ALA:HB3	14	0.29
(1,851)	1:103:A:VAL:HG22	1:102:A:ALA:HB1	14	0.29
(1,851)	1:103:A:VAL:HG22	1:102:A:ALA:HB2	14	0.29
(1,851)	1:103:A:VAL:HG22	1:102:A:ALA:HB3	14	0.29
(1,851)	1:103:A:VAL:HG23	1:102:A:ALA:HB1	14	0.29
(1,851)	1:103:A:VAL:HG23	1:102:A:ALA:HB2	14	0.29
(1,851)	1:103:A:VAL:HG23	1:102:A:ALA:HB3	14	0.29
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG11	8	0.29
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG12	8	0.29
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG13	8	0.29
(1,647)	1:37:A:SER:H	1:25:A:LYS:HB2	9	0.29
(1,584)	1:33:A:ILE:HG13	1:196:A:ILE:HG21	17	0.29
(1,584)	1:33:A:ILE:HG13	1:196:A:ILE:HG22	17	0.29
(1,584)	1:33:A:ILE:HG13	1:196:A:ILE:HG23	17	0.29
(1,534)	1:71:A:ARG:HD2	1:65:A:LEU:HA	6	0.29
(1,511)	1:73:A:THR:H	1:74:A:TRP:HB2	3	0.29
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD11	11	0.29
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD12	11	0.29
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD13	11	0.29
(1,446)	1:204:A:LYS:HB2	1:204:A:LYS:HD2	16	0.29
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB1	1	0.29
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB2	1	0.29
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB3	1	0.29
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB1	7	0.29
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB2	7	0.29
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB3	7	0.29
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB1	11	0.29
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB2	11	0.29
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB3	11	0.29
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB1	16	0.29
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB2	16	0.29
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB3	16	0.29
(1,343)	1:25:A:LYS:H	1:24:A:TRP:HD1	16	0.29
(1,301)	1:6:A:ILE:HA	1:9:A:GLN:HB3	9	0.29
(1,118)	1:25:A:LYS:H	1:25:A:LYS:HG3	1	0.29
(1,52)	1:14:A:VAL:HB	1:16:A:GLY:H	10	0.29
(1,52)	1:14:A:VAL:HB	1:16:A:GLY:H	11	0.29
(1,52)	1:14:A:VAL:HB	1:16:A:GLY:H	12	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,52)	1:14:A:VAL:HB	1:16:A:GLY:H	19	0.29
(1,40)	1:187:A:THR:H	1:184:A:ILE:H	15	0.29
(1,40)	1:187:A:THR:H	1:184:A:ILE:H	16	0.29
(1,4286)	1:166:A:LYS:H	1:166:A:LYS:HG2	17	0.28
(1,4286)	1:166:A:LYS:H	1:166:A:LYS:HG2	18	0.28
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG21	2	0.28
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG22	2	0.28
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG23	2	0.28
(1,4180)	1:81:A:TYR:H	1:68:A:THR:HA	13	0.28
(1,4133)	1:28:A:LYS:H	1:37:A:SER:H	2	0.28
(1,4070)	1:42:A:LYS:HD3	1:42:A:LYS:HB3	15	0.28
(1,4015)	1:27:A:VAL:H	1:36:A:SER:HB2	14	0.28
(1,4002)	1:105:A:SER:HB3	1:183:A:ILE:HD11	3	0.28
(1,4002)	1:105:A:SER:HB3	1:183:A:ILE:HD12	3	0.28
(1,4002)	1:105:A:SER:HB3	1:183:A:ILE:HD13	3	0.28
(1,3958)	1:167:A:LEU:H	1:51:A:GLU:HG3	17	0.28
(1,3881)	1:123:A:ASN:HA	1:157:A:PRO:HG3	12	0.28
(1,3872)	1:203:A:ILE:H	1:61:A:LEU:HD21	15	0.28
(1,3872)	1:203:A:ILE:H	1:61:A:LEU:HD22	15	0.28
(1,3872)	1:203:A:ILE:H	1:61:A:LEU:HD23	15	0.28
(1,3838)	1:176:A:ARG:HA	1:175:A:MET:HB2	18	0.28
(1,3779)	1:114:A:LEU:H	1:130:A:LYS:HB3	15	0.28
(1,3733)	1:3:A:PHE:H	1:4:A:LYS:HA	1	0.28
(1,3733)	1:3:A:PHE:H	1:4:A:LYS:HA	3	0.28
(1,3733)	1:3:A:PHE:H	1:4:A:LYS:HA	13	0.28
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD21	10	0.28
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD22	10	0.28
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD23	10	0.28
(1,3604)	1:72:A:ILE:HG21	1:73:A:THR:HA	12	0.28
(1,3604)	1:72:A:ILE:HG22	1:73:A:THR:HA	12	0.28
(1,3604)	1:72:A:ILE:HG23	1:73:A:THR:HA	12	0.28
(1,3599)	1:131:A:SER:H	1:132:A:VAL:HA	10	0.28
(1,3566)	1:134:A:PHE:HB3	1:132:A:VAL:HB	1	0.28
(1,3566)	1:134:A:PHE:HB3	1:132:A:VAL:HB	8	0.28
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD11	17	0.28
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD12	17	0.28
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD13	17	0.28
(1,3486)	1:36:A:SER:HA	1:24:A:TRP:HA	6	0.28
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG21	1	0.28
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG22	1	0.28
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG23	1	0.28
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG21	17	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG22	17	0.28
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG23	17	0.28
(1,3342)	1:180:A:SER:HB3	1:183:A:ILE:HG13	4	0.28
(1,3242)	1:168:A:VAL:H	1:155:A:CYS:HB2	1	0.28
(1,3173)	1:61:A:LEU:H	1:63:A:ASP:HB2	17	0.28
(1,3091)	1:124:A:MET:H	1:119:A:ARG:HA	4	0.28
(1,3091)	1:124:A:MET:H	1:119:A:ARG:HA	11	0.28
(1,3045)	1:136:A:GLU:H	1:137:A:TYR:HB2	11	0.28
(1,2988)	1:137:A:TYR:H	1:135:A:PRO:HB2	20	0.28
(1,2834)	1:207:A:ARG:H	1:207:A:ARG:HG3	6	0.28
(1,2834)	1:207:A:ARG:H	1:207:A:ARG:HG3	16	0.28
(1,2825)	1:68:A:THR:H	1:71:A:ARG:HB2	7	0.28
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG21	20	0.28
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG22	20	0.28
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG23	20	0.28
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG21	20	0.28
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG22	20	0.28
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG23	20	0.28
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG21	20	0.28
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG22	20	0.28
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG23	20	0.28
(1,2685)	1:177:A:GLY:H	1:176:A:ARG:HG3	15	0.28
(1,2572)	1:151:A:CYS:H	1:152:A:GLY:HA3	1	0.28
(1,2479)	1:66:A:TYR:H	1:71:A:ARG:HB2	9	0.28
(1,2427)	1:129:A:SER:HB3	1:152:A:GLY:HA3	16	0.28
(1,2294)	1:153:A:PHE:H	1:154:A:VAL:HB	14	0.28
(1,2173)	1:145:A:ARG:HG2	1:133:A:ASP:HA	6	0.28
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD11	11	0.28
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD12	11	0.28
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD13	11	0.28
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD11	20	0.28
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD12	20	0.28
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD13	20	0.28
(1,2126)	1:194:A:ASN:H	1:197:A:LEU:HG	5	0.28
(1,2043)	1:65:A:LEU:HD11	1:67:A:GLN:H	12	0.28
(1,2043)	1:65:A:LEU:HD12	1:67:A:GLN:H	12	0.28
(1,2043)	1:65:A:LEU:HD13	1:67:A:GLN:H	12	0.28
(1,2020)	1:129:A:SER:H	1:116:A:TYR:H	10	0.28
(1,2020)	1:129:A:SER:H	1:116:A:TYR:H	13	0.28
(1,2020)	1:129:A:SER:H	1:116:A:TYR:H	20	0.28
(1,1874)	1:153:A:PHE:HB2	1:65:A:LEU:HD11	15	0.28
(1,1874)	1:153:A:PHE:HB2	1:65:A:LEU:HD12	15	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1874)	1:153:A:PHE:HB2	1:65:A:LEU:HD13	15	0.28
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB1	5	0.28
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB2	5	0.28
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB3	5	0.28
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB1	17	0.28
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB2	17	0.28
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB3	17	0.28
(1,1581)	1:22:A:SER:H	1:21:A:THR:HG21	2	0.28
(1,1581)	1:22:A:SER:H	1:21:A:THR:HG22	2	0.28
(1,1581)	1:22:A:SER:H	1:21:A:THR:HG23	2	0.28
(1,1556)	1:160:A:GLU:H	1:159:A:GLU:HB2	14	0.28
(1,1516)	1:168:A:VAL:HG21	1:51:A:GLU:HG2	8	0.28
(1,1516)	1:168:A:VAL:HG22	1:51:A:GLU:HG2	8	0.28
(1,1516)	1:168:A:VAL:HG23	1:51:A:GLU:HG2	8	0.28
(1,1400)	1:136:A:GLU:HG2	1:136:A:GLU:H	16	0.28
(1,1305)	1:160:A:GLU:H	1:159:A:GLU:HB2	14	0.28
(1,1295)	1:203:A:ILE:HG21	1:204:A:LYS:HB3	12	0.28
(1,1295)	1:203:A:ILE:HG22	1:204:A:LYS:HB3	12	0.28
(1,1295)	1:203:A:ILE:HG23	1:204:A:LYS:HB3	12	0.28
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB1	3	0.28
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB2	3	0.28
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB3	3	0.28
(1,1130)	1:101:A:PHE:H	1:100:A:SER:HB3	11	0.28
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD11	3	0.28
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD12	3	0.28
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD13	3	0.28
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD11	18	0.28
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD12	18	0.28
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD13	18	0.28
(1,958)	1:76:A:LYS:HE2	1:76:A:LYS:HG3	16	0.28
(1,958)	1:76:A:LYS:HE2	1:76:A:LYS:HG3	18	0.28
(1,787)	1:158:A:MET:H	1:165:A:SER:HB2	7	0.28
(1,774)	1:196:A:ILE:HG21	1:197:A:LEU:HG	8	0.28
(1,774)	1:196:A:ILE:HG22	1:197:A:LEU:HG	8	0.28
(1,774)	1:196:A:ILE:HG23	1:197:A:LEU:HG	8	0.28
(1,664)	1:140:A:SER:H	1:139:A:PRO:HG3	7	0.28
(1,664)	1:140:A:SER:H	1:139:A:PRO:HG3	17	0.28
(1,599)	1:39:A:ALA:H	1:46:A:ASN:HB3	19	0.28
(1,593)	1:84:A:VAL:H	1:86:A:ARG:HG2	10	0.28
(1,593)	1:84:A:VAL:H	1:86:A:ARG:HG2	17	0.28
(1,517)	1:68:A:THR:H	1:67:A:GLN:HG2	6	0.28
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB1	5	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB2	5	0.28
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB3	5	0.28
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB1	10	0.28
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB2	10	0.28
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB3	10	0.28
(1,144)	1:202:A:GLY:H	1:200:A:LYS:HB2	3	0.28
(1,71)	1:112:A:ILE:HD11	1:111:A:PHE:HB3	1	0.28
(1,71)	1:112:A:ILE:HD12	1:111:A:PHE:HB3	1	0.28
(1,71)	1:112:A:ILE:HD13	1:111:A:PHE:HB3	1	0.28
(1,60)	1:76:A:LYS:HE2	1:76:A:LYS:HD2	4	0.28
(1,60)	1:76:A:LYS:HE2	1:76:A:LYS:HD2	7	0.28
(1,60)	1:76:A:LYS:HE2	1:76:A:LYS:HD2	8	0.28
(1,60)	1:76:A:LYS:HE2	1:76:A:LYS:HD2	13	0.28
(1,60)	1:76:A:LYS:HE2	1:76:A:LYS:HD2	14	0.28
(1,60)	1:76:A:LYS:HE2	1:76:A:LYS:HD2	20	0.28
(1,40)	1:187:A:THR:H	1:184:A:ILE:H	1	0.28
(1,40)	1:187:A:THR:H	1:184:A:ILE:H	2	0.28
(1,40)	1:187:A:THR:H	1:184:A:ILE:H	6	0.28
(1,4372)	1:206:A:HIS:H	1:203:A:ILE:H	14	0.27
(1,4362)	1:184:A:ILE:HG21	1:185:A:GLU:HG3	3	0.27
(1,4362)	1:184:A:ILE:HG22	1:185:A:GLU:HG3	3	0.27
(1,4362)	1:184:A:ILE:HG23	1:185:A:GLU:HG3	3	0.27
(1,4335)	1:186:A:LYS:H	1:186:A:LYS:HG3	20	0.27
(1,4325)	1:203:A:ILE:HG21	1:61:A:LEU:H	1	0.27
(1,4325)	1:203:A:ILE:HG22	1:61:A:LEU:H	1	0.27
(1,4325)	1:203:A:ILE:HG23	1:61:A:LEU:H	1	0.27
(1,4325)	1:203:A:ILE:HG21	1:61:A:LEU:H	7	0.27
(1,4325)	1:203:A:ILE:HG22	1:61:A:LEU:H	7	0.27
(1,4325)	1:203:A:ILE:HG23	1:61:A:LEU:H	7	0.27
(1,4306)	1:102:A:ALA:HA	1:105:A:SER:H	13	0.27
(1,4195)	1:151:A:CYS:H	1:149:A:HIS:HA	16	0.27
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG21	6	0.27
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG22	6	0.27
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG23	6	0.27
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG21	15	0.27
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG22	15	0.27
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG23	15	0.27
(1,4133)	1:28:A:LYS:H	1:37:A:SER:H	9	0.27
(1,4113)	1:98:A:THR:HG21	1:109:A:ARG:HG3	19	0.27
(1,4113)	1:98:A:THR:HG22	1:109:A:ARG:HG3	19	0.27
(1,4113)	1:98:A:THR:HG23	1:109:A:ARG:HG3	19	0.27
(1,4015)	1:27:A:VAL:H	1:36:A:SER:HB2	4	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3965)	1:168:A:VAL:HG11	1:166:A:LYS:HG3	3	0.27
(1,3965)	1:168:A:VAL:HG12	1:166:A:LYS:HG3	3	0.27
(1,3965)	1:168:A:VAL:HG13	1:166:A:LYS:HG3	3	0.27
(1,3779)	1:114:A:LEU:H	1:130:A:LYS:HB3	18	0.27
(1,3733)	1:3:A:PHE:H	1:4:A:LYS:HA	5	0.27
(1,3733)	1:3:A:PHE:H	1:4:A:LYS:HA	11	0.27
(1,3732)	1:153:A:PHE:H	1:14:A:VAL:HB	18	0.27
(1,3701)	1:180:A:SER:H	1:179:A:LEU:H	10	0.27
(1,3604)	1:72:A:ILE:HG21	1:73:A:THR:HA	17	0.27
(1,3604)	1:72:A:ILE:HG22	1:73:A:THR:HA	17	0.27
(1,3604)	1:72:A:ILE:HG23	1:73:A:THR:HA	17	0.27
(1,3604)	1:72:A:ILE:HG21	1:73:A:THR:HA	19	0.27
(1,3604)	1:72:A:ILE:HG22	1:73:A:THR:HA	19	0.27
(1,3604)	1:72:A:ILE:HG23	1:73:A:THR:HA	19	0.27
(1,3600)	1:82:A:ASN:H	1:83:A:MET:HB2	6	0.27
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD11	1	0.27
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD12	1	0.27
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD13	1	0.27
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD11	2	0.27
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD12	2	0.27
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD13	2	0.27
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD11	3	0.27
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD12	3	0.27
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD13	3	0.27
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD11	12	0.27
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD12	12	0.27
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD13	12	0.27
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD11	19	0.27
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD12	19	0.27
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD13	19	0.27
(1,3522)	1:112:A:ILE:H	1:96:A:THR:HB	19	0.27
(1,3476)	1:200:A:LYS:HB3	1:200:A:LYS:HE3	8	0.27
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG21	14	0.27
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG22	14	0.27
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG23	14	0.27
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG21	16	0.27
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG22	16	0.27
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG23	16	0.27
(1,3250)	1:71:A:ARG:H	1:68:A:THR:HA	13	0.27
(1,3096)	1:61:A:LEU:HG	1:57:A:SER:HA	16	0.27
(1,3082)	1:92:A:PHE:H	1:87:A:ILE:HG13	1	0.27
(1,3045)	1:136:A:GLU:H	1:137:A:TYR:HB2	16	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2988)	1:137:A:TYR:H	1:135:A:PRO:HB2	9	0.27
(1,2966)	1:17:A:TYR:H	1:15:A:LEU:HG	7	0.27
(1,2897)	1:203:A:ILE:HG21	1:206:A:HIS:HB3	16	0.27
(1,2897)	1:203:A:ILE:HG22	1:206:A:HIS:HB3	16	0.27
(1,2897)	1:203:A:ILE:HG23	1:206:A:HIS:HB3	16	0.27
(1,2800)	1:203:A:ILE:HD11	1:54:A:ILE:HB	20	0.27
(1,2800)	1:203:A:ILE:HD12	1:54:A:ILE:HB	20	0.27
(1,2800)	1:203:A:ILE:HD13	1:54:A:ILE:HB	20	0.27
(1,2747)	1:91:A:THR:HG21	1:4:A:LYS:HD3	8	0.27
(1,2747)	1:91:A:THR:HG22	1:4:A:LYS:HD3	8	0.27
(1,2747)	1:91:A:THR:HG23	1:4:A:LYS:HD3	8	0.27
(1,2650)	1:168:A:VAL:H	1:154:A:VAL:HB	7	0.27
(1,2620)	1:188:A:MET:HB2	1:189:A:PRO:HD3	2	0.27
(1,2613)	1:198:A:ASN:HB2	1:197:A:LEU:HB2	5	0.27
(1,2572)	1:151:A:CYS:H	1:152:A:GLY:HA3	6	0.27
(1,2572)	1:151:A:CYS:H	1:152:A:GLY:HA3	7	0.27
(1,2439)	1:202:A:GLY:H	1:198:A:ASN:HB3	3	0.27
(1,2332)	1:78:A:LEU:H	1:76:A:LYS:HB2	12	0.27
(1,2309)	1:129:A:SER:HB3	1:113:A:ASP:HB3	6	0.27
(1,2294)	1:153:A:PHE:H	1:154:A:VAL:HB	19	0.27
(1,2294)	1:153:A:PHE:H	1:154:A:VAL:HB	20	0.27
(1,2287)	1:43:A:PHE:H	1:41:A:ARG:HB3	8	0.27
(1,2284)	1:34:A:THR:HG21	1:26:A:VAL:HG21	18	0.27
(1,2284)	1:34:A:THR:HG21	1:26:A:VAL:HG22	18	0.27
(1,2284)	1:34:A:THR:HG21	1:26:A:VAL:HG23	18	0.27
(1,2284)	1:34:A:THR:HG22	1:26:A:VAL:HG21	18	0.27
(1,2284)	1:34:A:THR:HG22	1:26:A:VAL:HG22	18	0.27
(1,2284)	1:34:A:THR:HG22	1:26:A:VAL:HG23	18	0.27
(1,2284)	1:34:A:THR:HG23	1:26:A:VAL:HG21	18	0.27
(1,2284)	1:34:A:THR:HG23	1:26:A:VAL:HG22	18	0.27
(1,2284)	1:34:A:THR:HG23	1:26:A:VAL:HG23	18	0.27
(1,2272)	1:64:A:PHE:HZ	1:65:A:LEU:HD21	8	0.27
(1,2272)	1:64:A:PHE:HZ	1:65:A:LEU:HD22	8	0.27
(1,2272)	1:64:A:PHE:HZ	1:65:A:LEU:HD23	8	0.27
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD11	14	0.27
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD12	14	0.27
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD13	14	0.27
(1,2119)	1:46:A:ASN:H	1:184:A:ILE:HG21	6	0.27
(1,2119)	1:46:A:ASN:H	1:184:A:ILE:HG22	6	0.27
(1,2119)	1:46:A:ASN:H	1:184:A:ILE:HG23	6	0.27
(1,2020)	1:129:A:SER:H	1:116:A:TYR:H	4	0.27
(1,2020)	1:129:A:SER:H	1:116:A:TYR:H	14	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1790)	1:144:A:ILE:HG21	1:177:A:GLY:HA2	14	0.27
(1,1790)	1:144:A:ILE:HG22	1:177:A:GLY:HA2	14	0.27
(1,1790)	1:144:A:ILE:HG23	1:177:A:GLY:HA2	14	0.27
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB1	19	0.27
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB2	19	0.27
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB3	19	0.27
(1,1553)	1:57:A:SER:H	1:58:A:PRO:HD3	8	0.27
(1,1553)	1:57:A:SER:H	1:58:A:PRO:HD3	13	0.27
(1,1553)	1:57:A:SER:H	1:58:A:PRO:HD3	14	0.27
(1,1516)	1:168:A:VAL:HG21	1:51:A:GLU:HG2	4	0.27
(1,1516)	1:168:A:VAL:HG22	1:51:A:GLU:HG2	4	0.27
(1,1516)	1:168:A:VAL:HG23	1:51:A:GLU:HG2	4	0.27
(1,1481)	1:132:A:VAL:HG11	1:130:A:LYS:H	5	0.27
(1,1481)	1:132:A:VAL:HG12	1:130:A:LYS:H	5	0.27
(1,1481)	1:132:A:VAL:HG13	1:130:A:LYS:H	5	0.27
(1,1400)	1:136:A:GLU:HG2	1:136:A:GLU:H	5	0.27
(1,1400)	1:136:A:GLU:HG2	1:136:A:GLU:H	8	0.27
(1,1295)	1:203:A:ILE:HG21	1:204:A:LYS:HB3	8	0.27
(1,1295)	1:203:A:ILE:HG22	1:204:A:LYS:HB3	8	0.27
(1,1295)	1:203:A:ILE:HG23	1:204:A:LYS:HB3	8	0.27
(1,1295)	1:203:A:ILE:HG21	1:204:A:LYS:HB3	15	0.27
(1,1295)	1:203:A:ILE:HG22	1:204:A:LYS:HB3	15	0.27
(1,1295)	1:203:A:ILE:HG23	1:204:A:LYS:HB3	15	0.27
(1,1135)	1:71:A:ARG:H	1:74:A:TRP:H	4	0.27
(1,1135)	1:71:A:ARG:H	1:74:A:TRP:H	20	0.27
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD11	16	0.27
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD12	16	0.27
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD13	16	0.27
(1,905)	1:38:A:LYS:H	1:37:A:SER:H	19	0.27
(1,878)	1:180:A:SER:H	1:184:A:ILE:HB	1	0.27
(1,851)	1:103:A:VAL:HG21	1:102:A:ALA:HB1	18	0.27
(1,851)	1:103:A:VAL:HG21	1:102:A:ALA:HB2	18	0.27
(1,851)	1:103:A:VAL:HG21	1:102:A:ALA:HB3	18	0.27
(1,851)	1:103:A:VAL:HG22	1:102:A:ALA:HB1	18	0.27
(1,851)	1:103:A:VAL:HG22	1:102:A:ALA:HB2	18	0.27
(1,851)	1:103:A:VAL:HG22	1:102:A:ALA:HB3	18	0.27
(1,851)	1:103:A:VAL:HG23	1:102:A:ALA:HB1	18	0.27
(1,851)	1:103:A:VAL:HG23	1:102:A:ALA:HB2	18	0.27
(1,851)	1:103:A:VAL:HG23	1:102:A:ALA:HB3	18	0.27
(1,833)	1:60:A:LYS:HE3	1:203:A:ILE:HD11	18	0.27
(1,833)	1:60:A:LYS:HE3	1:203:A:ILE:HD12	18	0.27
(1,833)	1:60:A:LYS:HE3	1:203:A:ILE:HD13	18	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG11	19	0.27
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG12	19	0.27
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG13	19	0.27
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG21	17	0.27
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG22	17	0.27
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG23	17	0.27
(1,665)	1:167:A:LEU:H	1:54:A:ILE:HB	19	0.27
(1,567)	1:156:A:SER:H	1:166:A:LYS:HA	7	0.27
(1,554)	1:61:A:LEU:H	1:59:A:ALA:HA	11	0.27
(1,511)	1:73:A:THR:H	1:74:A:TRP:HB2	16	0.27
(1,379)	1:69:A:GLY:HA2	1:72:A:ILE:H	4	0.27
(1,379)	1:69:A:GLY:HA2	1:72:A:ILE:H	11	0.27
(1,258)	1:42:A:LYS:H	1:42:A:LYS:HD2	6	0.27
(1,199)	1:10:A:THR:HG21	1:8:A:GLN:H	10	0.27
(1,199)	1:10:A:THR:HG22	1:8:A:GLN:H	10	0.27
(1,199)	1:10:A:THR:HG23	1:8:A:GLN:H	10	0.27
(1,118)	1:25:A:LYS:H	1:25:A:LYS:HG3	19	0.27
(1,104)	1:19:A:ARG:H	1:20:A:ASP:HB3	13	0.27
(1,60)	1:76:A:LYS:HE2	1:76:A:LYS:HD2	6	0.27
(1,60)	1:76:A:LYS:HE2	1:76:A:LYS:HD2	19	0.27
(1,52)	1:14:A:VAL:HB	1:16:A:GLY:H	3	0.27
(1,52)	1:14:A:VAL:HB	1:16:A:GLY:H	13	0.27
(1,52)	1:14:A:VAL:HB	1:16:A:GLY:H	15	0.27
(1,52)	1:14:A:VAL:HB	1:16:A:GLY:H	17	0.27
(1,23)	1:98:A:THR:HG21	1:110:A:ASP:H	4	0.27
(1,23)	1:98:A:THR:HG22	1:110:A:ASP:H	4	0.27
(1,23)	1:98:A:THR:HG23	1:110:A:ASP:H	4	0.27
(1,4367)	1:68:A:THR:HG21	1:83:A:MET:HG3	15	0.26
(1,4367)	1:68:A:THR:HG22	1:83:A:MET:HG3	15	0.26
(1,4367)	1:68:A:THR:HG23	1:83:A:MET:HG3	15	0.26
(1,4335)	1:186:A:LYS:H	1:186:A:LYS:HG3	6	0.26
(1,4325)	1:203:A:ILE:HG21	1:61:A:LEU:H	6	0.26
(1,4325)	1:203:A:ILE:HG22	1:61:A:LEU:H	6	0.26
(1,4325)	1:203:A:ILE:HG23	1:61:A:LEU:H	6	0.26
(1,4325)	1:203:A:ILE:HG21	1:61:A:LEU:H	13	0.26
(1,4325)	1:203:A:ILE:HG22	1:61:A:LEU:H	13	0.26
(1,4325)	1:203:A:ILE:HG23	1:61:A:LEU:H	13	0.26
(1,4106)	1:96:A:THR:H	1:81:A:TYR:HA	16	0.26
(1,4106)	1:96:A:THR:H	1:81:A:TYR:HA	18	0.26
(1,4070)	1:42:A:LYS:HD3	1:42:A:LYS:HB3	18	0.26
(1,4015)	1:27:A:VAL:H	1:36:A:SER:HB2	10	0.26
(1,3749)	1:8:A:GLN:H	1:11:A:ALA:H	9	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3733)	1:3:A:PHE:H	1:4:A:LYS:HA	6	0.26
(1,3733)	1:3:A:PHE:H	1:4:A:LYS:HA	8	0.26
(1,3733)	1:3:A:PHE:H	1:4:A:LYS:HA	12	0.26
(1,3733)	1:3:A:PHE:H	1:4:A:LYS:HA	17	0.26
(1,3733)	1:3:A:PHE:H	1:4:A:LYS:HA	20	0.26
(1,3719)	1:67:A:GLN:HA	1:71:A:ARG:HG3	14	0.26
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD21	1	0.26
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD22	1	0.26
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD23	1	0.26
(1,3673)	1:65:A:LEU:H	1:66:A:TYR:HA	19	0.26
(1,3604)	1:72:A:ILE:HG21	1:73:A:THR:HA	6	0.26
(1,3604)	1:72:A:ILE:HG22	1:73:A:THR:HA	6	0.26
(1,3604)	1:72:A:ILE:HG23	1:73:A:THR:HA	6	0.26
(1,3599)	1:131:A:SER:H	1:132:A:VAL:HA	8	0.26
(1,3566)	1:134:A:PHE:HB3	1:132:A:VAL:HB	6	0.26
(1,3566)	1:134:A:PHE:HB3	1:132:A:VAL:HB	7	0.26
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD11	4	0.26
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD12	4	0.26
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD13	4	0.26
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD11	15	0.26
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD12	15	0.26
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD13	15	0.26
(1,3522)	1:112:A:ILE:H	1:96:A:THR:HB	7	0.26
(1,3522)	1:112:A:ILE:H	1:96:A:THR:HB	15	0.26
(1,3513)	1:211:A:ARG:HA	1:211:A:ARG:HD2	12	0.26
(1,3486)	1:36:A:SER:HA	1:24:A:TRP:HA	10	0.26
(1,3486)	1:36:A:SER:HA	1:24:A:TRP:HA	14	0.26
(1,3486)	1:36:A:SER:HA	1:24:A:TRP:HA	16	0.26
(1,3486)	1:36:A:SER:HA	1:24:A:TRP:HA	17	0.26
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG21	4	0.26
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG22	4	0.26
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG23	4	0.26
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG21	7	0.26
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG22	7	0.26
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG23	7	0.26
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG21	18	0.26
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG22	18	0.26
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG23	18	0.26
(1,3421)	1:99:A:GLN:H	1:109:A:ARG:H	7	0.26
(1,3421)	1:99:A:GLN:H	1:109:A:ARG:H	11	0.26
(1,3421)	1:99:A:GLN:H	1:109:A:ARG:H	18	0.26
(1,3421)	1:99:A:GLN:H	1:109:A:ARG:H	20	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3242)	1:168:A:VAL:H	1:155:A:CYS:HB2	4	0.26
(1,3242)	1:168:A:VAL:H	1:155:A:CYS:HB2	12	0.26
(1,3079)	1:130:A:LYS:HB3	1:132:A:VAL:HG11	13	0.26
(1,3079)	1:130:A:LYS:HB3	1:132:A:VAL:HG12	13	0.26
(1,3079)	1:130:A:LYS:HB3	1:132:A:VAL:HG13	13	0.26
(1,3047)	1:145:A:ARG:H	1:145:A:ARG:HD3	20	0.26
(1,3045)	1:136:A:GLU:H	1:137:A:TYR:HB2	10	0.26
(1,2960)	1:132:A:VAL:H	1:133:A:ASP:HB2	7	0.26
(1,2896)	1:158:A:MET:H	1:158:A:MET:HG3	6	0.26
(1,2777)	1:73:A:THR:HG21	1:202:A:GLY:HA2	19	0.26
(1,2777)	1:73:A:THR:HG22	1:202:A:GLY:HA2	19	0.26
(1,2777)	1:73:A:THR:HG23	1:202:A:GLY:HA2	19	0.26
(1,2777)	1:73:A:THR:HG21	1:202:A:GLY:HA2	20	0.26
(1,2777)	1:73:A:THR:HG22	1:202:A:GLY:HA2	20	0.26
(1,2777)	1:73:A:THR:HG23	1:202:A:GLY:HA2	20	0.26
(1,2679)	1:67:A:GLN:H	1:68:A:THR:HA	19	0.26
(1,2637)	1:187:A:THR:HG21	1:175:A:MET:HG3	4	0.26
(1,2637)	1:187:A:THR:HG22	1:175:A:MET:HG3	4	0.26
(1,2637)	1:187:A:THR:HG23	1:175:A:MET:HG3	4	0.26
(1,2366)	1:22:A:SER:H	1:38:A:LYS:HD2	10	0.26
(1,2161)	1:73:A:THR:H	1:72:A:ILE:HG13	9	0.26
(1,1908)	1:15:A:LEU:H	1:15:A:LEU:HG	14	0.26
(1,1877)	1:102:A:ALA:HB1	1:179:A:LEU:HB3	6	0.26
(1,1877)	1:102:A:ALA:HB2	1:179:A:LEU:HB3	6	0.26
(1,1877)	1:102:A:ALA:HB3	1:179:A:LEU:HB3	6	0.26
(1,1816)	1:204:A:LYS:H	1:204:A:LYS:HG3	16	0.26
(1,1716)	1:134:A:PHE:H	1:112:A:ILE:HB	5	0.26
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB1	20	0.26
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB2	20	0.26
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB3	20	0.26
(1,1580)	1:174:A:GLU:H	1:147:A:TYR:HA	20	0.26
(1,1553)	1:57:A:SER:H	1:58:A:PRO:HD3	4	0.26
(1,1553)	1:57:A:SER:H	1:58:A:PRO:HD3	16	0.26
(1,1508)	1:129:A:SER:HB3	1:113:A:ASP:H	3	0.26
(1,1508)	1:129:A:SER:HB3	1:113:A:ASP:H	13	0.26
(1,1502)	1:139:A:PRO:HB3	1:144:A:ILE:HA	2	0.26
(1,1481)	1:132:A:VAL:HG11	1:130:A:LYS:H	7	0.26
(1,1481)	1:132:A:VAL:HG12	1:130:A:LYS:H	7	0.26
(1,1481)	1:132:A:VAL:HG13	1:130:A:LYS:H	7	0.26
(1,1431)	1:203:A:ILE:HD11	1:60:A:LYS:HD3	10	0.26
(1,1431)	1:203:A:ILE:HD12	1:60:A:LYS:HD3	10	0.26
(1,1431)	1:203:A:ILE:HD13	1:60:A:LYS:HD3	10	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1400)	1:136:A:GLU:HG2	1:136:A:GLU:H	12	0.26
(1,1353)	1:15:A:LEU:H	1:14:A:VAL:HG21	11	0.26
(1,1353)	1:15:A:LEU:H	1:14:A:VAL:HG22	11	0.26
(1,1353)	1:15:A:LEU:H	1:14:A:VAL:HG23	11	0.26
(1,1278)	1:208:A:THR:H	1:207:A:ARG:HD3	3	0.26
(1,1272)	1:48:A:TYR:H	1:171:A:VAL:HG21	14	0.26
(1,1272)	1:48:A:TYR:H	1:171:A:VAL:HG22	14	0.26
(1,1272)	1:48:A:TYR:H	1:171:A:VAL:HG23	14	0.26
(1,1252)	1:130:A:LYS:HB3	1:7:A:ALA:HA	6	0.26
(1,1211)	1:179:A:LEU:HD11	1:183:A:ILE:HG21	13	0.26
(1,1211)	1:179:A:LEU:HD11	1:183:A:ILE:HG22	13	0.26
(1,1211)	1:179:A:LEU:HD11	1:183:A:ILE:HG23	13	0.26
(1,1211)	1:179:A:LEU:HD12	1:183:A:ILE:HG21	13	0.26
(1,1211)	1:179:A:LEU:HD12	1:183:A:ILE:HG22	13	0.26
(1,1211)	1:179:A:LEU:HD12	1:183:A:ILE:HG23	13	0.26
(1,1211)	1:179:A:LEU:HD13	1:183:A:ILE:HG21	13	0.26
(1,1211)	1:179:A:LEU:HD13	1:183:A:ILE:HG22	13	0.26
(1,1211)	1:179:A:LEU:HD13	1:183:A:ILE:HG23	13	0.26
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG21	7	0.26
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG22	7	0.26
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG23	7	0.26
(1,1166)	1:105:A:SER:HB2	1:180:A:SER:H	18	0.26
(1,1135)	1:71:A:ARG:H	1:74:A:TRP:H	11	0.26
(1,1135)	1:71:A:ARG:H	1:74:A:TRP:H	17	0.26
(1,1135)	1:71:A:ARG:H	1:74:A:TRP:H	19	0.26
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD11	8	0.26
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD12	8	0.26
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD13	8	0.26
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD11	20	0.26
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD12	20	0.26
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD13	20	0.26
(1,958)	1:76:A:LYS:HE2	1:76:A:LYS:HG3	17	0.26
(1,878)	1:180:A:SER:H	1:184:A:ILE:HB	18	0.26
(1,858)	1:101:A:PHE:H	1:102:A:ALA:H	1	0.26
(1,848)	1:67:A:GLN:H	1:65:A:LEU:HD21	6	0.26
(1,848)	1:67:A:GLN:H	1:65:A:LEU:HD22	6	0.26
(1,848)	1:67:A:GLN:H	1:65:A:LEU:HD23	6	0.26
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG11	20	0.26
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG12	20	0.26
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG13	20	0.26
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG11	3	0.26
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG12	3	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG13	3	0.26
(1,774)	1:196:A:ILE:HG21	1:197:A:LEU:HG	6	0.26
(1,774)	1:196:A:ILE:HG22	1:197:A:LEU:HG	6	0.26
(1,774)	1:196:A:ILE:HG23	1:197:A:LEU:HG	6	0.26
(1,770)	1:53:A:ILE:HD11	1:32:A:LYS:HE2	9	0.26
(1,770)	1:53:A:ILE:HD12	1:32:A:LYS:HE2	9	0.26
(1,770)	1:53:A:ILE:HD13	1:32:A:LYS:HE2	9	0.26
(1,643)	1:81:A:TYR:H	1:72:A:ILE:HD11	17	0.26
(1,643)	1:81:A:TYR:H	1:72:A:ILE:HD12	17	0.26
(1,643)	1:81:A:TYR:H	1:72:A:ILE:HD13	17	0.26
(1,554)	1:61:A:LEU:H	1:59:A:ALA:HA	16	0.26
(1,554)	1:61:A:LEU:H	1:59:A:ALA:HA	18	0.26
(1,511)	1:73:A:THR:H	1:74:A:TRP:HB2	10	0.26
(1,511)	1:73:A:THR:H	1:74:A:TRP:HB2	13	0.26
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD11	9	0.26
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD12	9	0.26
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD13	9	0.26
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB1	9	0.26
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB2	9	0.26
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB3	9	0.26
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB1	12	0.26
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB2	12	0.26
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB3	12	0.26
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB1	19	0.26
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB2	19	0.26
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB3	19	0.26
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG11	8	0.26
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG12	8	0.26
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG13	8	0.26
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG11	8	0.26
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG12	8	0.26
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG13	8	0.26
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG11	8	0.26
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG12	8	0.26
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG13	8	0.26
(1,256)	1:144:A:ILE:H	1:109:A:ARG:HB3	7	0.26
(1,201)	1:91:A:THR:H	1:89:A:SER:HB2	13	0.26
(1,144)	1:202:A:GLY:H	1:200:A:LYS:HB2	8	0.26
(1,144)	1:202:A:GLY:H	1:200:A:LYS:HB2	15	0.26
(1,144)	1:202:A:GLY:H	1:200:A:LYS:HB2	17	0.26
(1,118)	1:25:A:LYS:H	1:25:A:LYS:HG3	7	0.26
(1,118)	1:25:A:LYS:H	1:25:A:LYS:HG3	10	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,60)	1:76:A:LYS:HE2	1:76:A:LYS:HD2	1	0.26
(1,52)	1:14:A:VAL:HB	1:16:A:GLY:H	5	0.26
(1,52)	1:14:A:VAL:HB	1:16:A:GLY:H	6	0.26
(1,52)	1:14:A:VAL:HB	1:16:A:GLY:H	9	0.26
(1,52)	1:14:A:VAL:HB	1:16:A:GLY:H	14	0.26
(1,42)	1:46:A:ASN:HB2	1:45:A:GLY:H	4	0.26
(1,23)	1:98:A:THR:HG21	1:110:A:ASP:H	12	0.26
(1,23)	1:98:A:THR:HG22	1:110:A:ASP:H	12	0.26
(1,23)	1:98:A:THR:HG23	1:110:A:ASP:H	12	0.26
(1,19)	1:106:A:ILE:HG21	1:109:A:ARG:HD2	15	0.26
(1,19)	1:106:A:ILE:HG22	1:109:A:ARG:HD2	15	0.26
(1,19)	1:106:A:ILE:HG23	1:109:A:ARG:HD2	15	0.26
(1,4372)	1:206:A:HIS:H	1:203:A:ILE:H	1	0.25
(1,4325)	1:203:A:ILE:HG21	1:61:A:LEU:H	5	0.25
(1,4325)	1:203:A:ILE:HG22	1:61:A:LEU:H	5	0.25
(1,4325)	1:203:A:ILE:HG23	1:61:A:LEU:H	5	0.25
(1,4325)	1:203:A:ILE:HG21	1:61:A:LEU:H	19	0.25
(1,4325)	1:203:A:ILE:HG22	1:61:A:LEU:H	19	0.25
(1,4325)	1:203:A:ILE:HG23	1:61:A:LEU:H	19	0.25
(1,4286)	1:166:A:LYS:H	1:166:A:LYS:HG2	19	0.25
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG21	17	0.25
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG22	17	0.25
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG23	17	0.25
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG21	19	0.25
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG22	19	0.25
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG23	19	0.25
(1,4139)	1:18:A:ASN:H	1:17:A:TYR:HB3	20	0.25
(1,4133)	1:28:A:LYS:H	1:37:A:SER:H	15	0.25
(1,4106)	1:96:A:THR:H	1:81:A:TYR:HA	9	0.25
(1,4070)	1:42:A:LYS:HD3	1:42:A:LYS:HB3	5	0.25
(1,4067)	1:168:A:VAL:HG21	1:51:A:GLU:HB3	9	0.25
(1,4067)	1:168:A:VAL:HG22	1:51:A:GLU:HB3	9	0.25
(1,4067)	1:168:A:VAL:HG23	1:51:A:GLU:HB3	9	0.25
(1,4057)	1:145:A:ARG:H	1:143:A:TYR:HA	11	0.25
(1,3749)	1:8:A:GLN:H	1:11:A:ALA:H	15	0.25
(1,3733)	1:3:A:PHE:H	1:4:A:LYS:HA	14	0.25
(1,3733)	1:3:A:PHE:H	1:4:A:LYS:HA	15	0.25
(1,3732)	1:153:A:PHE:H	1:14:A:VAL:HB	5	0.25
(1,3732)	1:153:A:PHE:H	1:14:A:VAL:HB	6	0.25
(1,3732)	1:153:A:PHE:H	1:14:A:VAL:HB	15	0.25
(1,3684)	1:61:A:LEU:H	1:56:A:GLU:HG2	16	0.25
(1,3608)	1:56:A:GLU:H	1:165:A:SER:HB3	18	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3572)	1:184:A:ILE:H	1:186:A:LYS:HE3	6	0.25
(1,3566)	1:134:A:PHE:HB3	1:132:A:VAL:HB	15	0.25
(1,3522)	1:112:A:ILE:H	1:96:A:THR:HB	2	0.25
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD11	11	0.25
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD12	11	0.25
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD13	11	0.25
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD11	20	0.25
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD12	20	0.25
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD13	20	0.25
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG21	18	0.25
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG22	18	0.25
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG23	18	0.25
(1,3486)	1:36:A:SER:HA	1:24:A:TRP:HA	4	0.25
(1,3486)	1:36:A:SER:HA	1:24:A:TRP:HA	5	0.25
(1,3463)	1:40:A:SER:H	1:45:A:GLY:HA3	6	0.25
(1,3463)	1:40:A:SER:H	1:45:A:GLY:HA3	14	0.25
(1,3360)	1:116:A:TYR:H	1:114:A:LEU:HG	4	0.25
(1,3260)	1:201:A:ASP:H	1:199:A:ALA:HA	14	0.25
(1,3250)	1:71:A:ARG:H	1:68:A:THR:HA	6	0.25
(1,3242)	1:168:A:VAL:H	1:155:A:CYS:HB2	5	0.25
(1,3239)	1:133:A:ASP:HB2	1:132:A:VAL:HG11	4	0.25
(1,3239)	1:133:A:ASP:HB2	1:132:A:VAL:HG12	4	0.25
(1,3239)	1:133:A:ASP:HB2	1:132:A:VAL:HG13	4	0.25
(1,3108)	1:204:A:LYS:HA	1:204:A:LYS:HD3	8	0.25
(1,3091)	1:124:A:MET:H	1:119:A:ARG:HA	12	0.25
(1,3045)	1:136:A:GLU:H	1:137:A:TYR:HB2	1	0.25
(1,3045)	1:136:A:GLU:H	1:137:A:TYR:HB2	14	0.25
(1,2988)	1:137:A:TYR:H	1:135:A:PRO:HB2	11	0.25
(1,2972)	1:122:A:GLY:H	1:121:A:GLU:HB2	3	0.25
(1,2972)	1:122:A:GLY:H	1:121:A:GLU:HB2	9	0.25
(1,2972)	1:122:A:GLY:H	1:121:A:GLU:HB2	17	0.25
(1,2972)	1:122:A:GLY:H	1:121:A:GLU:HB2	19	0.25
(1,2960)	1:132:A:VAL:H	1:133:A:ASP:HB2	10	0.25
(1,2960)	1:132:A:VAL:H	1:133:A:ASP:HB2	19	0.25
(1,2895)	1:29:A:THR:H	1:28:A:LYS:HG3	8	0.25
(1,2800)	1:203:A:ILE:HD11	1:54:A:ILE:HB	3	0.25
(1,2800)	1:203:A:ILE:HD12	1:54:A:ILE:HB	3	0.25
(1,2800)	1:203:A:ILE:HD13	1:54:A:ILE:HB	3	0.25
(1,2800)	1:203:A:ILE:HD11	1:54:A:ILE:HB	6	0.25
(1,2800)	1:203:A:ILE:HD12	1:54:A:ILE:HB	6	0.25
(1,2800)	1:203:A:ILE:HD13	1:54:A:ILE:HB	6	0.25
(1,2800)	1:203:A:ILE:HD11	1:54:A:ILE:HB	10	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2800)	1:203:A:ILE:HD12	1:54:A:ILE:HB	10	0.25
(1,2800)	1:203:A:ILE:HD13	1:54:A:ILE:HB	10	0.25
(1,2800)	1:203:A:ILE:HD11	1:54:A:ILE:HB	12	0.25
(1,2800)	1:203:A:ILE:HD12	1:54:A:ILE:HB	12	0.25
(1,2800)	1:203:A:ILE:HD13	1:54:A:ILE:HB	12	0.25
(1,2777)	1:73:A:THR:HG21	1:202:A:GLY:HA2	16	0.25
(1,2777)	1:73:A:THR:HG22	1:202:A:GLY:HA2	16	0.25
(1,2777)	1:73:A:THR:HG23	1:202:A:GLY:HA2	16	0.25
(1,2679)	1:67:A:GLN:H	1:68:A:THR:HA	17	0.25
(1,2650)	1:168:A:VAL:H	1:154:A:VAL:HB	13	0.25
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD11	13	0.25
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD12	13	0.25
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD13	13	0.25
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB1	6	0.25
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB2	6	0.25
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB3	6	0.25
(1,2332)	1:78:A:LEU:H	1:76:A:LYS:HB2	9	0.25
(1,2332)	1:78:A:LEU:H	1:76:A:LYS:HB2	16	0.25
(1,2309)	1:129:A:SER:HB3	1:113:A:ASP:HB3	5	0.25
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD11	5	0.25
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD12	5	0.25
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD13	5	0.25
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD11	12	0.25
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD12	12	0.25
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD13	12	0.25
(1,2144)	1:170:A:PHE:H	1:169:A:MET:H	4	0.25
(1,2020)	1:129:A:SER:H	1:116:A:TYR:H	17	0.25
(1,1988)	1:83:A:MET:HG3	1:68:A:THR:HG21	3	0.25
(1,1988)	1:83:A:MET:HG3	1:68:A:THR:HG22	3	0.25
(1,1988)	1:83:A:MET:HG3	1:68:A:THR:HG23	3	0.25
(1,1898)	1:24:A:TRP:H	1:38:A:LYS:HB2	12	0.25
(1,1875)	1:21:A:THR:H	1:22:A:SER:HA	2	0.25
(1,1869)	1:65:A:LEU:H	1:64:A:PHE:HZ	17	0.25
(1,1716)	1:134:A:PHE:H	1:112:A:ILE:HB	6	0.25
(1,1716)	1:134:A:PHE:H	1:112:A:ILE:HB	9	0.25
(1,1716)	1:134:A:PHE:H	1:112:A:ILE:HB	13	0.25
(1,1716)	1:134:A:PHE:H	1:112:A:ILE:HB	18	0.25
(1,1683)	1:119:A:ARG:H	1:119:A:ARG:HD2	9	0.25
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB1	2	0.25
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB2	2	0.25
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB3	2	0.25
(1,1580)	1:174:A:GLU:H	1:147:A:TYR:HA	1	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1520)	1:107:A:SER:HB2	1:144:A:ILE:HG21	4	0.25
(1,1520)	1:107:A:SER:HB2	1:144:A:ILE:HG22	4	0.25
(1,1520)	1:107:A:SER:HB2	1:144:A:ILE:HG23	4	0.25
(1,1463)	1:91:A:THR:HA	1:117:A:ILE:HG12	11	0.25
(1,1431)	1:203:A:ILE:HD11	1:60:A:LYS:HD3	8	0.25
(1,1431)	1:203:A:ILE:HD12	1:60:A:LYS:HD3	8	0.25
(1,1431)	1:203:A:ILE:HD13	1:60:A:LYS:HD3	8	0.25
(1,1400)	1:136:A:GLU:HG2	1:136:A:GLU:H	6	0.25
(1,1315)	1:37:A:SER:H	1:49:A:ARG:H	14	0.25
(1,1259)	1:25:A:LYS:H	1:24:A:TRP:HE1	6	0.25
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB1	20	0.25
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB2	20	0.25
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB3	20	0.25
(1,1135)	1:71:A:ARG:H	1:74:A:TRP:H	8	0.25
(1,1135)	1:71:A:ARG:H	1:74:A:TRP:H	15	0.25
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD11	10	0.25
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD12	10	0.25
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD13	10	0.25
(1,906)	1:98:A:THR:HG21	1:96:A:THR:HG21	13	0.25
(1,906)	1:98:A:THR:HG21	1:96:A:THR:HG22	13	0.25
(1,906)	1:98:A:THR:HG21	1:96:A:THR:HG23	13	0.25
(1,906)	1:98:A:THR:HG22	1:96:A:THR:HG21	13	0.25
(1,906)	1:98:A:THR:HG22	1:96:A:THR:HG22	13	0.25
(1,906)	1:98:A:THR:HG22	1:96:A:THR:HG23	13	0.25
(1,906)	1:98:A:THR:HG23	1:96:A:THR:HG21	13	0.25
(1,906)	1:98:A:THR:HG23	1:96:A:THR:HG22	13	0.25
(1,906)	1:98:A:THR:HG23	1:96:A:THR:HG23	13	0.25
(1,878)	1:180:A:SER:H	1:184:A:ILE:HB	11	0.25
(1,848)	1:67:A:GLN:H	1:65:A:LEU:HD21	13	0.25
(1,848)	1:67:A:GLN:H	1:65:A:LEU:HD22	13	0.25
(1,848)	1:67:A:GLN:H	1:65:A:LEU:HD23	13	0.25
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG11	12	0.25
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG12	12	0.25
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG13	12	0.25
(1,775)	1:53:A:ILE:H	1:53:A:ILE:HG12	17	0.25
(1,749)	1:105:A:SER:HB2	1:179:A:LEU:HG	18	0.25
(1,710)	1:150:A:PRO:HB2	1:14:A:VAL:HG21	18	0.25
(1,710)	1:150:A:PRO:HB2	1:14:A:VAL:HG22	18	0.25
(1,710)	1:150:A:PRO:HB2	1:14:A:VAL:HG23	18	0.25
(1,666)	1:137:A:TYR:HB2	1:112:A:ILE:HG12	1	0.25
(1,666)	1:137:A:TYR:HB2	1:112:A:ILE:HG12	16	0.25
(1,665)	1:167:A:LEU:H	1:54:A:ILE:HB	17	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,593)	1:84:A:VAL:H	1:86:A:ARG:HG2	7	0.25
(1,564)	1:173:A:THR:HA	1:171:A:VAL:HG11	12	0.25
(1,564)	1:173:A:THR:HA	1:171:A:VAL:HG12	12	0.25
(1,564)	1:173:A:THR:HA	1:171:A:VAL:HG13	12	0.25
(1,562)	1:86:A:ARG:HG2	1:92:A:PHE:HB3	2	0.25
(1,554)	1:61:A:LEU:H	1:59:A:ALA:HA	2	0.25
(1,554)	1:61:A:LEU:H	1:59:A:ALA:HA	4	0.25
(1,527)	1:2:A:ASP:H	1:1:A:MET:HG3	3	0.25
(1,511)	1:73:A:THR:H	1:74:A:TRP:HB2	2	0.25
(1,511)	1:73:A:THR:H	1:74:A:TRP:HB2	4	0.25
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD11	8	0.25
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD12	8	0.25
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD13	8	0.25
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB1	2	0.25
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB2	2	0.25
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB3	2	0.25
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB1	20	0.25
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB2	20	0.25
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB3	20	0.25
(1,379)	1:69:A:GLY:HA2	1:72:A:ILE:H	17	0.25
(1,260)	1:145:A:ARG:HG3	1:147:A:TYR:HA	19	0.25
(1,255)	1:130:A:LYS:HB3	1:114:A:LEU:HD21	15	0.25
(1,255)	1:130:A:LYS:HB3	1:114:A:LEU:HD22	15	0.25
(1,255)	1:130:A:LYS:HB3	1:114:A:LEU:HD23	15	0.25
(1,199)	1:10:A:THR:HG21	1:8:A:GLN:H	12	0.25
(1,199)	1:10:A:THR:HG22	1:8:A:GLN:H	12	0.25
(1,199)	1:10:A:THR:HG23	1:8:A:GLN:H	12	0.25
(1,144)	1:202:A:GLY:H	1:200:A:LYS:HB2	20	0.25
(1,133)	1:88:A:ASP:H	1:89:A:SER:HA	2	0.25
(1,71)	1:112:A:ILE:HD11	1:111:A:PHE:HB3	15	0.25
(1,71)	1:112:A:ILE:HD12	1:111:A:PHE:HB3	15	0.25
(1,71)	1:112:A:ILE:HD13	1:111:A:PHE:HB3	15	0.25
(1,60)	1:76:A:LYS:HE2	1:76:A:LYS:HD2	15	0.25
(1,52)	1:14:A:VAL:HB	1:16:A:GLY:H	1	0.25
(1,40)	1:187:A:THR:H	1:184:A:ILE:H	7	0.25
(1,4358)	1:71:A:ARG:H	1:74:A:TRP:HD1	5	0.24
(1,4325)	1:203:A:ILE:HG21	1:61:A:LEU:H	3	0.24
(1,4325)	1:203:A:ILE:HG22	1:61:A:LEU:H	3	0.24
(1,4325)	1:203:A:ILE:HG23	1:61:A:LEU:H	3	0.24
(1,4325)	1:203:A:ILE:HG21	1:61:A:LEU:H	15	0.24
(1,4325)	1:203:A:ILE:HG22	1:61:A:LEU:H	15	0.24
(1,4325)	1:203:A:ILE:HG23	1:61:A:LEU:H	15	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4306)	1:102:A:ALA:HA	1:105:A:SER:H	17	0.24
(1,4259)	1:140:A:SER:H	1:141:A:SER:HA	6	0.24
(1,4229)	1:74:A:TRP:H	1:75:A:ASP:HB3	15	0.24
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG21	13	0.24
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG22	13	0.24
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG23	13	0.24
(1,4180)	1:81:A:TYR:H	1:68:A:THR:HA	2	0.24
(1,4180)	1:81:A:TYR:H	1:68:A:THR:HA	14	0.24
(1,4180)	1:81:A:TYR:H	1:68:A:THR:HA	18	0.24
(1,4057)	1:145:A:ARG:H	1:143:A:TYR:HA	4	0.24
(1,4057)	1:145:A:ARG:H	1:143:A:TYR:HA	8	0.24
(1,4015)	1:27:A:VAL:H	1:36:A:SER:HB2	12	0.24
(1,3986)	1:109:A:ARG:HG2	1:144:A:ILE:HG21	2	0.24
(1,3986)	1:109:A:ARG:HG2	1:144:A:ILE:HG22	2	0.24
(1,3986)	1:109:A:ARG:HG2	1:144:A:ILE:HG23	2	0.24
(1,3896)	1:130:A:LYS:H	1:148:A:ASN:HB3	4	0.24
(1,3872)	1:203:A:ILE:H	1:61:A:LEU:HD21	8	0.24
(1,3872)	1:203:A:ILE:H	1:61:A:LEU:HD22	8	0.24
(1,3872)	1:203:A:ILE:H	1:61:A:LEU:HD23	8	0.24
(1,3793)	1:137:A:TYR:H	1:134:A:PHE:HZ	4	0.24
(1,3733)	1:3:A:PHE:H	1:4:A:LYS:HA	7	0.24
(1,3733)	1:3:A:PHE:H	1:4:A:LYS:HA	18	0.24
(1,3732)	1:153:A:PHE:H	1:14:A:VAL:HB	1	0.24
(1,3732)	1:153:A:PHE:H	1:14:A:VAL:HB	2	0.24
(1,3732)	1:153:A:PHE:H	1:14:A:VAL:HB	9	0.24
(1,3732)	1:153:A:PHE:H	1:14:A:VAL:HB	20	0.24
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD21	4	0.24
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD22	4	0.24
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD23	4	0.24
(1,3604)	1:72:A:ILE:HG21	1:73:A:THR:HA	9	0.24
(1,3604)	1:72:A:ILE:HG22	1:73:A:THR:HA	9	0.24
(1,3604)	1:72:A:ILE:HG23	1:73:A:THR:HA	9	0.24
(1,3599)	1:131:A:SER:H	1:132:A:VAL:HA	4	0.24
(1,3566)	1:134:A:PHE:HB3	1:132:A:VAL:HB	2	0.24
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD11	13	0.24
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD12	13	0.24
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD13	13	0.24
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD11	20	0.24
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD12	20	0.24
(1,3565)	1:91:A:THR:H	1:87:A:ILE:HD13	20	0.24
(1,3537)	1:28:A:LYS:H	1:28:A:LYS:HD2	19	0.24
(1,3522)	1:112:A:ILE:H	1:96:A:THR:HB	4	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3522)	1:112:A:ILE:H	1:96:A:THR:HB	6	0.24
(1,3522)	1:112:A:ILE:H	1:96:A:THR:HB	14	0.24
(1,3513)	1:211:A:ARG:HA	1:211:A:ARG:HD2	6	0.24
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD11	1	0.24
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD12	1	0.24
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD13	1	0.24
(1,3487)	1:184:A:ILE:H	1:185:A:GLU:HG3	13	0.24
(1,3486)	1:36:A:SER:HA	1:24:A:TRP:HA	20	0.24
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG21	13	0.24
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG22	13	0.24
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG23	13	0.24
(1,3421)	1:99:A:GLN:H	1:109:A:ARG:H	2	0.24
(1,3421)	1:99:A:GLN:H	1:109:A:ARG:H	10	0.24
(1,3421)	1:99:A:GLN:H	1:109:A:ARG:H	16	0.24
(1,3358)	1:15:A:LEU:HD11	1:12:A:GLN:H	10	0.24
(1,3358)	1:15:A:LEU:HD12	1:12:A:GLN:H	10	0.24
(1,3358)	1:15:A:LEU:HD13	1:12:A:GLN:H	10	0.24
(1,3250)	1:71:A:ARG:H	1:68:A:THR:HA	12	0.24
(1,3242)	1:168:A:VAL:H	1:155:A:CYS:HB2	14	0.24
(1,3143)	1:191:A:ASN:HA	1:190:A:SER:HB3	12	0.24
(1,3047)	1:145:A:ARG:H	1:145:A:ARG:HD3	8	0.24
(1,2998)	1:28:A:LYS:H	1:26:A:VAL:HB	7	0.24
(1,2988)	1:137:A:TYR:H	1:135:A:PRO:HB2	10	0.24
(1,2972)	1:122:A:GLY:H	1:121:A:GLU:HB2	8	0.24
(1,2966)	1:17:A:TYR:H	1:15:A:LEU:HG	15	0.24
(1,2966)	1:17:A:TYR:H	1:15:A:LEU:HG	16	0.24
(1,2960)	1:132:A:VAL:H	1:133:A:ASP:HB2	2	0.24
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG21	13	0.24
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG22	13	0.24
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG23	13	0.24
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG21	13	0.24
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG22	13	0.24
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG23	13	0.24
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG21	13	0.24
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG22	13	0.24
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG23	13	0.24
(1,2800)	1:203:A:ILE:HD11	1:54:A:ILE:HB	13	0.24
(1,2800)	1:203:A:ILE:HD12	1:54:A:ILE:HB	13	0.24
(1,2800)	1:203:A:ILE:HD13	1:54:A:ILE:HB	13	0.24
(1,2800)	1:203:A:ILE:HD11	1:54:A:ILE:HB	16	0.24
(1,2800)	1:203:A:ILE:HD12	1:54:A:ILE:HB	16	0.24
(1,2800)	1:203:A:ILE:HD13	1:54:A:ILE:HB	16	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2800)	1:203:A:ILE:HD11	1:54:A:ILE:HB	17	0.24
(1,2800)	1:203:A:ILE:HD12	1:54:A:ILE:HB	17	0.24
(1,2800)	1:203:A:ILE:HD13	1:54:A:ILE:HB	17	0.24
(1,2704)	1:162:A:PRO:HA	1:162:A:PRO:HD3	2	0.24
(1,2650)	1:168:A:VAL:H	1:154:A:VAL:HB	6	0.24
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD11	5	0.24
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD12	5	0.24
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD13	5	0.24
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD11	17	0.24
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD12	17	0.24
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD13	17	0.24
(1,2520)	1:27:A:VAL:H	1:28:A:LYS:HA	4	0.24
(1,2488)	1:97:A:ILE:H	1:80:A:VAL:HB	13	0.24
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG11	17	0.24
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG12	17	0.24
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG13	17	0.24
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG11	9	0.24
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG12	9	0.24
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG13	9	0.24
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG11	9	0.24
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG12	9	0.24
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG13	9	0.24
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG11	9	0.24
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG12	9	0.24
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG13	9	0.24
(1,2252)	1:6:A:ILE:H	1:8:A:GLN:HG3	7	0.24
(1,1937)	1:176:A:ARG:H	1:174:A:GLU:HA	20	0.24
(1,1908)	1:15:A:LEU:H	1:15:A:LEU:HG	11	0.24
(1,1849)	1:186:A:LYS:HB2	1:106:A:ILE:HD11	6	0.24
(1,1849)	1:186:A:LYS:HB2	1:106:A:ILE:HD12	6	0.24
(1,1849)	1:186:A:LYS:HB2	1:106:A:ILE:HD13	6	0.24
(1,1830)	1:114:A:LEU:H	1:132:A:VAL:HA	4	0.24
(1,1830)	1:114:A:LEU:H	1:132:A:VAL:HA	12	0.24
(1,1823)	1:207:A:ARG:HA	1:207:A:ARG:HG2	10	0.24
(1,1585)	1:184:A:ILE:HG21	1:188:A:MET:HE1	15	0.24
(1,1585)	1:184:A:ILE:HG21	1:188:A:MET:HE2	15	0.24
(1,1585)	1:184:A:ILE:HG21	1:188:A:MET:HE3	15	0.24
(1,1585)	1:184:A:ILE:HG22	1:188:A:MET:HE1	15	0.24
(1,1585)	1:184:A:ILE:HG22	1:188:A:MET:HE2	15	0.24
(1,1585)	1:184:A:ILE:HG22	1:188:A:MET:HE3	15	0.24
(1,1585)	1:184:A:ILE:HG23	1:188:A:MET:HE1	15	0.24
(1,1585)	1:184:A:ILE:HG23	1:188:A:MET:HE2	15	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1585)	1:184:A:ILE:HG23	1:188:A:MET:HE3	15	0.24
(1,1553)	1:57:A:SER:H	1:58:A:PRO:HD3	10	0.24
(1,1516)	1:168:A:VAL:HG21	1:51:A:GLU:HG2	9	0.24
(1,1516)	1:168:A:VAL:HG22	1:51:A:GLU:HG2	9	0.24
(1,1516)	1:168:A:VAL:HG23	1:51:A:GLU:HG2	9	0.24
(1,1516)	1:168:A:VAL:HG21	1:51:A:GLU:HG2	12	0.24
(1,1516)	1:168:A:VAL:HG22	1:51:A:GLU:HG2	12	0.24
(1,1516)	1:168:A:VAL:HG23	1:51:A:GLU:HG2	12	0.24
(1,1400)	1:136:A:GLU:HG2	1:136:A:GLU:H	3	0.24
(1,1259)	1:25:A:LYS:H	1:24:A:TRP:HE1	20	0.24
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB1	9	0.24
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB2	9	0.24
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB3	9	0.24
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG21	6	0.24
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG22	6	0.24
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG23	6	0.24
(1,1135)	1:71:A:ARG:H	1:74:A:TRP:H	10	0.24
(1,1010)	1:169:A:MET:HG2	1:171:A:VAL:HA	17	0.24
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD11	12	0.24
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD12	12	0.24
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD13	12	0.24
(1,949)	1:151:A:CYS:H	1:149:A:HIS:HB2	6	0.24
(1,905)	1:38:A:LYS:H	1:37:A:SER:H	18	0.24
(1,895)	1:71:A:ARG:H	1:69:A:GLY:HA3	12	0.24
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG11	5	0.24
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG12	5	0.24
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG13	5	0.24
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG11	7	0.24
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG12	7	0.24
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG13	7	0.24
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG11	18	0.24
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG12	18	0.24
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG13	18	0.24
(1,647)	1:37:A:SER:H	1:25:A:LYS:HB2	7	0.24
(1,593)	1:84:A:VAL:H	1:86:A:ARG:HG2	13	0.24
(1,554)	1:61:A:LEU:H	1:59:A:ALA:HA	13	0.24
(1,532)	1:194:A:ASN:HB3	1:76:A:LYS:HG3	12	0.24
(1,511)	1:73:A:THR:H	1:74:A:TRP:HB2	11	0.24
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD11	12	0.24
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD12	12	0.24
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD13	12	0.24
(1,474)	1:144:A:ILE:HG21	1:109:A:ARG:HB3	7	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,474)	1:144:A:ILE:HG22	1:109:A:ARG:HB3	7	0.24
(1,474)	1:144:A:ILE:HG23	1:109:A:ARG:HB3	7	0.24
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB1	15	0.24
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB2	15	0.24
(1,444)	1:9:A:GLN:H	1:7:A:ALA:HB3	15	0.24
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD21	19	0.24
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD22	19	0.24
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD23	19	0.24
(1,327)	1:171:A:VAL:H	1:49:A:ARG:H	19	0.24
(1,199)	1:10:A:THR:HG21	1:8:A:GLN:H	2	0.24
(1,199)	1:10:A:THR:HG22	1:8:A:GLN:H	2	0.24
(1,199)	1:10:A:THR:HG23	1:8:A:GLN:H	2	0.24
(1,199)	1:10:A:THR:HG21	1:8:A:GLN:H	11	0.24
(1,199)	1:10:A:THR:HG22	1:8:A:GLN:H	11	0.24
(1,199)	1:10:A:THR:HG23	1:8:A:GLN:H	11	0.24
(1,199)	1:10:A:THR:HG21	1:8:A:GLN:H	14	0.24
(1,199)	1:10:A:THR:HG22	1:8:A:GLN:H	14	0.24
(1,199)	1:10:A:THR:HG23	1:8:A:GLN:H	14	0.24
(1,199)	1:10:A:THR:HG21	1:8:A:GLN:H	17	0.24
(1,199)	1:10:A:THR:HG22	1:8:A:GLN:H	17	0.24
(1,199)	1:10:A:THR:HG23	1:8:A:GLN:H	17	0.24
(1,162)	1:167:A:LEU:H	1:168:A:VAL:H	19	0.24
(1,144)	1:202:A:GLY:H	1:200:A:LYS:HB2	10	0.24
(1,34)	1:12:A:GLN:H	1:12:A:GLN:HG3	16	0.24
(1,26)	1:98:A:THR:HG21	1:99:A:GLN:HG3	8	0.24
(1,26)	1:98:A:THR:HG22	1:99:A:GLN:HG3	8	0.24
(1,26)	1:98:A:THR:HG23	1:99:A:GLN:HG3	8	0.24
(1,4366)	1:83:A:MET:HG2	1:86:A:ARG:HG2	18	0.23
(1,4358)	1:71:A:ARG:H	1:74:A:TRP:HD1	15	0.23
(1,4358)	1:71:A:ARG:H	1:74:A:TRP:HD1	19	0.23
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD11	10	0.23
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD12	10	0.23
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD13	10	0.23
(1,4325)	1:203:A:ILE:HG21	1:61:A:LEU:H	20	0.23
(1,4325)	1:203:A:ILE:HG22	1:61:A:LEU:H	20	0.23
(1,4325)	1:203:A:ILE:HG23	1:61:A:LEU:H	20	0.23
(1,4246)	1:144:A:ILE:H	1:110:A:ASP:HA	4	0.23
(1,4208)	1:176:A:ARG:H	1:144:A:ILE:HG21	20	0.23
(1,4208)	1:176:A:ARG:H	1:144:A:ILE:HG22	20	0.23
(1,4208)	1:176:A:ARG:H	1:144:A:ILE:HG23	20	0.23
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG21	5	0.23
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG22	5	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG23	5	0.23
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG21	14	0.23
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG22	14	0.23
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG23	14	0.23
(1,4180)	1:81:A:TYR:H	1:68:A:THR:HA	12	0.23
(1,4133)	1:28:A:LYS:H	1:37:A:SER:H	3	0.23
(1,4133)	1:28:A:LYS:H	1:37:A:SER:H	7	0.23
(1,4133)	1:28:A:LYS:H	1:37:A:SER:H	19	0.23
(1,4082)	1:207:A:ARG:H	1:207:A:ARG:HD2	18	0.23
(1,4057)	1:145:A:ARG:H	1:143:A:TYR:HA	19	0.23
(1,3936)	1:183:A:ILE:H	1:179:A:LEU:HB2	11	0.23
(1,3936)	1:183:A:ILE:H	1:179:A:LEU:HB2	18	0.23
(1,3881)	1:123:A:ASN:HA	1:157:A:PRO:HG3	6	0.23
(1,3732)	1:153:A:PHE:H	1:14:A:VAL:HB	13	0.23
(1,3717)	1:37:A:SER:H	1:24:A:TRP:HA	3	0.23
(1,3673)	1:65:A:LEU:H	1:66:A:TYR:HA	14	0.23
(1,3626)	1:77:A:SER:H	1:76:A:LYS:HD2	14	0.23
(1,3623)	1:13:A:GLU:H	1:13:A:GLU:HG2	10	0.23
(1,3600)	1:82:A:ASN:H	1:83:A:MET:HB2	10	0.23
(1,3599)	1:131:A:SER:H	1:132:A:VAL:HA	7	0.23
(1,3589)	1:186:A:LYS:H	1:106:A:ILE:HD11	10	0.23
(1,3589)	1:186:A:LYS:H	1:106:A:ILE:HD12	10	0.23
(1,3589)	1:186:A:LYS:H	1:106:A:ILE:HD13	10	0.23
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB1	19	0.23
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB2	19	0.23
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB3	19	0.23
(1,3537)	1:28:A:LYS:H	1:28:A:LYS:HD2	11	0.23
(1,3537)	1:28:A:LYS:H	1:28:A:LYS:HD2	13	0.23
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD11	2	0.23
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD12	2	0.23
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD13	2	0.23
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD11	5	0.23
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD12	5	0.23
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD13	5	0.23
(1,3473)	1:1:A:MET:HA	1:4:A:LYS:HB3	5	0.23
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG21	5	0.23
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG22	5	0.23
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG23	5	0.23
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG21	19	0.23
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG22	19	0.23
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG23	19	0.23
(1,3360)	1:116:A:TYR:H	1:114:A:LEU:HG	3	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3327)	1:137:A:TYR:H	1:136:A:GLU:HB3	13	0.23
(1,3242)	1:168:A:VAL:H	1:155:A:CYS:HB2	6	0.23
(1,3242)	1:168:A:VAL:H	1:155:A:CYS:HB2	9	0.23
(1,3242)	1:168:A:VAL:H	1:155:A:CYS:HB2	15	0.23
(1,3173)	1:61:A:LEU:H	1:63:A:ASP:HB2	7	0.23
(1,3173)	1:61:A:LEU:H	1:63:A:ASP:HB2	18	0.23
(1,3108)	1:204:A:LYS:HA	1:204:A:LYS:HD3	18	0.23
(1,3045)	1:136:A:GLU:H	1:137:A:TYR:HB2	18	0.23
(1,3026)	1:26:A:VAL:HG21	1:27:A:VAL:HA	2	0.23
(1,3026)	1:26:A:VAL:HG22	1:27:A:VAL:HA	2	0.23
(1,3026)	1:26:A:VAL:HG23	1:27:A:VAL:HA	2	0.23
(1,2972)	1:122:A:GLY:H	1:121:A:GLU:HB2	1	0.23
(1,2972)	1:122:A:GLY:H	1:121:A:GLU:HB2	7	0.23
(1,2972)	1:122:A:GLY:H	1:121:A:GLU:HB2	11	0.23
(1,2972)	1:122:A:GLY:H	1:121:A:GLU:HB2	15	0.23
(1,2972)	1:122:A:GLY:H	1:121:A:GLU:HB2	18	0.23
(1,2972)	1:122:A:GLY:H	1:121:A:GLU:HB2	20	0.23
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG21	6	0.23
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG22	6	0.23
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG23	6	0.23
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG21	6	0.23
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG22	6	0.23
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG23	6	0.23
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG21	6	0.23
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG22	6	0.23
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG23	6	0.23
(1,2800)	1:203:A:ILE:HD11	1:54:A:ILE:HB	2	0.23
(1,2800)	1:203:A:ILE:HD12	1:54:A:ILE:HB	2	0.23
(1,2800)	1:203:A:ILE:HD13	1:54:A:ILE:HB	2	0.23
(1,2739)	1:211:A:ARG:HA	1:214:A:PHE:HA	19	0.23
(1,2704)	1:162:A:PRO:HA	1:162:A:PRO:HD3	17	0.23
(1,2650)	1:168:A:VAL:H	1:154:A:VAL:HB	10	0.23
(1,2650)	1:168:A:VAL:H	1:154:A:VAL:HB	11	0.23
(1,2620)	1:188:A:MET:HB2	1:189:A:PRO:HD3	12	0.23
(1,2572)	1:151:A:CYS:H	1:152:A:GLY:HA3	11	0.23
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD11	19	0.23
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD12	19	0.23
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD13	19	0.23
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD21	17	0.23
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD22	17	0.23
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD23	17	0.23
(1,2404)	1:157:A:PRO:HD2	1:122:A:GLY:HA3	6	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG11	16	0.23
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG12	16	0.23
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG13	16	0.23
(1,2294)	1:153:A:PHE:H	1:154:A:VAL:HB	7	0.23
(1,2294)	1:153:A:PHE:H	1:154:A:VAL:HB	8	0.23
(1,2287)	1:43:A:PHE:H	1:41:A:ARG:HB3	1	0.23
(1,2284)	1:34:A:THR:HG21	1:26:A:VAL:HG21	1	0.23
(1,2284)	1:34:A:THR:HG21	1:26:A:VAL:HG22	1	0.23
(1,2284)	1:34:A:THR:HG21	1:26:A:VAL:HG23	1	0.23
(1,2284)	1:34:A:THR:HG22	1:26:A:VAL:HG21	1	0.23
(1,2284)	1:34:A:THR:HG22	1:26:A:VAL:HG22	1	0.23
(1,2284)	1:34:A:THR:HG22	1:26:A:VAL:HG23	1	0.23
(1,2284)	1:34:A:THR:HG23	1:26:A:VAL:HG21	1	0.23
(1,2284)	1:34:A:THR:HG23	1:26:A:VAL:HG22	1	0.23
(1,2284)	1:34:A:THR:HG23	1:26:A:VAL:HG23	1	0.23
(1,2179)	1:95:A:HIS:H	1:82:A:ASN:HB3	1	0.23
(1,2137)	1:198:A:ASN:H	1:196:A:ILE:HA	8	0.23
(1,2030)	1:28:A:LYS:H	1:34:A:THR:HA	3	0.23
(1,2020)	1:129:A:SER:H	1:116:A:TYR:H	2	0.23
(1,2020)	1:129:A:SER:H	1:116:A:TYR:H	15	0.23
(1,2020)	1:129:A:SER:H	1:116:A:TYR:H	16	0.23
(1,1923)	1:71:A:ARG:HB3	1:78:A:LEU:HG	18	0.23
(1,1823)	1:207:A:ARG:HA	1:207:A:ARG:HG2	17	0.23
(1,1716)	1:134:A:PHE:H	1:112:A:ILE:HB	8	0.23
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB1	4	0.23
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB2	4	0.23
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB3	4	0.23
(1,1642)	1:154:A:VAL:H	1:169:A:MET:HB3	17	0.23
(1,1619)	1:79:A:GLN:HA	1:80:A:VAL:HG21	13	0.23
(1,1619)	1:79:A:GLN:HA	1:80:A:VAL:HG22	13	0.23
(1,1619)	1:79:A:GLN:HA	1:80:A:VAL:HG23	13	0.23
(1,1570)	1:175:A:MET:H	1:174:A:GLU:HG3	12	0.23
(1,1553)	1:57:A:SER:H	1:58:A:PRO:HD3	6	0.23
(1,1481)	1:132:A:VAL:HG11	1:130:A:LYS:H	2	0.23
(1,1481)	1:132:A:VAL:HG12	1:130:A:LYS:H	2	0.23
(1,1481)	1:132:A:VAL:HG13	1:130:A:LYS:H	2	0.23
(1,1481)	1:132:A:VAL:HG11	1:130:A:LYS:H	11	0.23
(1,1481)	1:132:A:VAL:HG12	1:130:A:LYS:H	11	0.23
(1,1481)	1:132:A:VAL:HG13	1:130:A:LYS:H	11	0.23
(1,1481)	1:132:A:VAL:HG11	1:130:A:LYS:H	19	0.23
(1,1481)	1:132:A:VAL:HG12	1:130:A:LYS:H	19	0.23
(1,1481)	1:132:A:VAL:HG13	1:130:A:LYS:H	19	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1405)	1:42:A:LYS:HB3	1:43:A:PHE:HB2	14	0.23
(1,1400)	1:136:A:GLU:HG2	1:136:A:GLU:H	17	0.23
(1,1272)	1:48:A:TYR:H	1:171:A:VAL:HG21	16	0.23
(1,1272)	1:48:A:TYR:H	1:171:A:VAL:HG22	16	0.23
(1,1272)	1:48:A:TYR:H	1:171:A:VAL:HG23	16	0.23
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB1	14	0.23
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB2	14	0.23
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB3	14	0.23
(1,1033)	1:144:A:ILE:H	1:109:A:ARG:HD3	12	0.23
(1,949)	1:151:A:CYS:H	1:149:A:HIS:HB2	2	0.23
(1,949)	1:151:A:CYS:H	1:149:A:HIS:HB2	10	0.23
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB1	12	0.23
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB2	12	0.23
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB3	12	0.23
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB1	15	0.23
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB2	15	0.23
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB3	15	0.23
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB1	18	0.23
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB2	18	0.23
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB3	18	0.23
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB1	20	0.23
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB2	20	0.23
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB3	20	0.23
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG11	1	0.23
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG12	1	0.23
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG13	1	0.23
(1,792)	1:21:A:THR:H	1:22:A:SER:HB2	6	0.23
(1,756)	1:26:A:VAL:HG21	1:37:A:SER:H	16	0.23
(1,756)	1:26:A:VAL:HG22	1:37:A:SER:H	16	0.23
(1,756)	1:26:A:VAL:HG23	1:37:A:SER:H	16	0.23
(1,593)	1:84:A:VAL:H	1:86:A:ARG:HG2	8	0.23
(1,567)	1:156:A:SER:H	1:166:A:LYS:HA	4	0.23
(1,567)	1:156:A:SER:H	1:166:A:LYS:HA	10	0.23
(1,564)	1:173:A:THR:HA	1:171:A:VAL:HG11	1	0.23
(1,564)	1:173:A:THR:HA	1:171:A:VAL:HG12	1	0.23
(1,564)	1:173:A:THR:HA	1:171:A:VAL:HG13	1	0.23
(1,554)	1:61:A:LEU:H	1:59:A:ALA:HA	1	0.23
(1,539)	1:206:A:HIS:H	1:202:A:GLY:HA3	17	0.23
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD11	3	0.23
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD12	3	0.23
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD13	3	0.23
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD11	5	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD12	5	0.23
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD13	5	0.23
(1,287)	1:26:A:VAL:H	1:25:A:LYS:HE3	13	0.23
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG11	11	0.23
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG12	11	0.23
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG13	11	0.23
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG11	11	0.23
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG12	11	0.23
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG13	11	0.23
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG11	11	0.23
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG12	11	0.23
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG13	11	0.23
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG11	17	0.23
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG12	17	0.23
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG13	17	0.23
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG11	17	0.23
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG12	17	0.23
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG13	17	0.23
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG11	17	0.23
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG12	17	0.23
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG13	17	0.23
(1,273)	1:161:A:ASN:H	1:160:A:GLU:HB2	14	0.23
(1,255)	1:130:A:LYS:HB3	1:114:A:LEU:HD21	5	0.23
(1,255)	1:130:A:LYS:HB3	1:114:A:LEU:HD22	5	0.23
(1,255)	1:130:A:LYS:HB3	1:114:A:LEU:HD23	5	0.23
(1,144)	1:202:A:GLY:H	1:200:A:LYS:HB2	4	0.23
(1,144)	1:202:A:GLY:H	1:200:A:LYS:HB2	16	0.23
(1,52)	1:14:A:VAL:HB	1:16:A:GLY:H	20	0.23
(1,34)	1:12:A:GLN:H	1:12:A:GLN:HG3	6	0.23
(1,4372)	1:206:A:HIS:H	1:203:A:ILE:H	3	0.22
(1,4372)	1:206:A:HIS:H	1:203:A:ILE:H	17	0.22
(1,4358)	1:71:A:ARG:H	1:74:A:TRP:HD1	13	0.22
(1,4350)	1:21:A:THR:HG21	1:20:A:ASP:HB2	18	0.22
(1,4350)	1:21:A:THR:HG22	1:20:A:ASP:HB2	18	0.22
(1,4350)	1:21:A:THR:HG23	1:20:A:ASP:HB2	18	0.22
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD11	4	0.22
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD12	4	0.22
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD13	4	0.22
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD11	9	0.22
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD12	9	0.22
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD13	9	0.22
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD11	13	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD12	13	0.22
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD13	13	0.22
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD11	20	0.22
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD12	20	0.22
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD13	20	0.22
(1,4259)	1:140:A:SER:H	1:141:A:SER:HA	11	0.22
(1,4171)	1:116:A:TYR:H	1:11:A:ALA:HB1	20	0.22
(1,4171)	1:116:A:TYR:H	1:11:A:ALA:HB2	20	0.22
(1,4171)	1:116:A:TYR:H	1:11:A:ALA:HB3	20	0.22
(1,4133)	1:28:A:LYS:H	1:37:A:SER:H	10	0.22
(1,4133)	1:28:A:LYS:H	1:37:A:SER:H	11	0.22
(1,4106)	1:96:A:THR:H	1:81:A:TYR:HA	15	0.22
(1,4074)	1:186:A:LYS:H	1:185:A:GLU:HG3	1	0.22
(1,4064)	1:77:A:SER:H	1:76:A:LYS:HG3	4	0.22
(1,3914)	1:97:A:ILE:H	1:96:A:THR:H	2	0.22
(1,3898)	1:166:A:LYS:H	1:156:A:SER:HB3	20	0.22
(1,3749)	1:8:A:GLN:H	1:11:A:ALA:H	2	0.22
(1,3733)	1:3:A:PHE:H	1:4:A:LYS:HA	2	0.22
(1,3733)	1:3:A:PHE:H	1:4:A:LYS:HA	10	0.22
(1,3733)	1:3:A:PHE:H	1:4:A:LYS:HA	16	0.22
(1,3732)	1:153:A:PHE:H	1:14:A:VAL:HB	11	0.22
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD21	13	0.22
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD22	13	0.22
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD23	13	0.22
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD21	16	0.22
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD22	16	0.22
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD23	16	0.22
(1,3701)	1:180:A:SER:H	1:179:A:LEU:H	12	0.22
(1,3701)	1:180:A:SER:H	1:179:A:LEU:H	20	0.22
(1,3673)	1:65:A:LEU:H	1:66:A:TYR:HA	10	0.22
(1,3604)	1:72:A:ILE:HG21	1:73:A:THR:HA	10	0.22
(1,3604)	1:72:A:ILE:HG22	1:73:A:THR:HA	10	0.22
(1,3604)	1:72:A:ILE:HG23	1:73:A:THR:HA	10	0.22
(1,3600)	1:82:A:ASN:H	1:83:A:MET:HB2	4	0.22
(1,3599)	1:131:A:SER:H	1:132:A:VAL:HA	1	0.22
(1,3599)	1:131:A:SER:H	1:132:A:VAL:HA	11	0.22
(1,3566)	1:134:A:PHE:HB3	1:132:A:VAL:HB	19	0.22
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB1	17	0.22
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB2	17	0.22
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB3	17	0.22
(1,3537)	1:28:A:LYS:H	1:28:A:LYS:HD2	16	0.22
(1,3522)	1:112:A:ILE:H	1:96:A:THR:HB	13	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD11	4	0.22
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD12	4	0.22
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD13	4	0.22
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD11	16	0.22
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD12	16	0.22
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD13	16	0.22
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD11	18	0.22
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD12	18	0.22
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD13	18	0.22
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG21	12	0.22
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG22	12	0.22
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG23	12	0.22
(1,3486)	1:36:A:SER:HA	1:24:A:TRP:HA	2	0.22
(1,3465)	1:71:A:ARG:HB2	1:65:A:LEU:HD11	13	0.22
(1,3465)	1:71:A:ARG:HB2	1:65:A:LEU:HD12	13	0.22
(1,3465)	1:71:A:ARG:HB2	1:65:A:LEU:HD13	13	0.22
(1,3421)	1:99:A:GLN:H	1:109:A:ARG:H	8	0.22
(1,3358)	1:15:A:LEU:HD11	1:12:A:GLN:H	12	0.22
(1,3358)	1:15:A:LEU:HD12	1:12:A:GLN:H	12	0.22
(1,3358)	1:15:A:LEU:HD13	1:12:A:GLN:H	12	0.22
(1,3290)	1:77:A:SER:H	1:99:A:GLN:H	11	0.22
(1,3258)	1:115:A:VAL:HG11	1:113:A:ASP:HB3	11	0.22
(1,3258)	1:115:A:VAL:HG12	1:113:A:ASP:HB3	11	0.22
(1,3258)	1:115:A:VAL:HG13	1:113:A:ASP:HB3	11	0.22
(1,3228)	1:187:A:THR:HG21	1:179:A:LEU:HD11	9	0.22
(1,3228)	1:187:A:THR:HG21	1:179:A:LEU:HD12	9	0.22
(1,3228)	1:187:A:THR:HG21	1:179:A:LEU:HD13	9	0.22
(1,3228)	1:187:A:THR:HG22	1:179:A:LEU:HD11	9	0.22
(1,3228)	1:187:A:THR:HG22	1:179:A:LEU:HD12	9	0.22
(1,3228)	1:187:A:THR:HG22	1:179:A:LEU:HD13	9	0.22
(1,3228)	1:187:A:THR:HG23	1:179:A:LEU:HD11	9	0.22
(1,3228)	1:187:A:THR:HG23	1:179:A:LEU:HD12	9	0.22
(1,3228)	1:187:A:THR:HG23	1:179:A:LEU:HD13	9	0.22
(1,3228)	1:187:A:THR:HG21	1:179:A:LEU:HD11	15	0.22
(1,3228)	1:187:A:THR:HG21	1:179:A:LEU:HD12	15	0.22
(1,3228)	1:187:A:THR:HG21	1:179:A:LEU:HD13	15	0.22
(1,3228)	1:187:A:THR:HG22	1:179:A:LEU:HD11	15	0.22
(1,3228)	1:187:A:THR:HG22	1:179:A:LEU:HD12	15	0.22
(1,3228)	1:187:A:THR:HG22	1:179:A:LEU:HD13	15	0.22
(1,3228)	1:187:A:THR:HG23	1:179:A:LEU:HD11	15	0.22
(1,3228)	1:187:A:THR:HG23	1:179:A:LEU:HD12	15	0.22
(1,3228)	1:187:A:THR:HG23	1:179:A:LEU:HD13	15	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3118)	1:86:A:ARG:HA	1:83:A:MET:HG2	11	0.22
(1,3096)	1:61:A:LEU:HG	1:57:A:SER:HA	11	0.22
(1,3091)	1:124:A:MET:H	1:119:A:ARG:HA	7	0.22
(1,3045)	1:136:A:GLU:H	1:137:A:TYR:HB2	9	0.22
(1,3045)	1:136:A:GLU:H	1:137:A:TYR:HB2	19	0.22
(1,2998)	1:28:A:LYS:H	1:26:A:VAL:HB	9	0.22
(1,2998)	1:28:A:LYS:H	1:26:A:VAL:HB	11	0.22
(1,2972)	1:122:A:GLY:H	1:121:A:GLU:HB2	2	0.22
(1,2972)	1:122:A:GLY:H	1:121:A:GLU:HB2	4	0.22
(1,2966)	1:17:A:TYR:H	1:15:A:LEU:HG	10	0.22
(1,2966)	1:17:A:TYR:H	1:15:A:LEU:HG	17	0.22
(1,2960)	1:132:A:VAL:H	1:133:A:ASP:HB2	11	0.22
(1,2897)	1:203:A:ILE:HG21	1:206:A:HIS:HB3	14	0.22
(1,2897)	1:203:A:ILE:HG22	1:206:A:HIS:HB3	14	0.22
(1,2897)	1:203:A:ILE:HG23	1:206:A:HIS:HB3	14	0.22
(1,2825)	1:68:A:THR:H	1:71:A:ARG:HB2	16	0.22
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG21	5	0.22
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG22	5	0.22
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG23	5	0.22
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG21	5	0.22
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG22	5	0.22
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG23	5	0.22
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG21	5	0.22
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG22	5	0.22
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG23	5	0.22
(1,2818)	1:60:A:LYS:H	1:60:A:LYS:HD3	16	0.22
(1,2777)	1:73:A:THR:HG21	1:202:A:GLY:HA2	1	0.22
(1,2777)	1:73:A:THR:HG22	1:202:A:GLY:HA2	1	0.22
(1,2777)	1:73:A:THR:HG23	1:202:A:GLY:HA2	1	0.22
(1,2777)	1:73:A:THR:HG21	1:202:A:GLY:HA2	3	0.22
(1,2777)	1:73:A:THR:HG22	1:202:A:GLY:HA2	3	0.22
(1,2777)	1:73:A:THR:HG23	1:202:A:GLY:HA2	3	0.22
(1,2777)	1:73:A:THR:HG21	1:202:A:GLY:HA2	7	0.22
(1,2777)	1:73:A:THR:HG22	1:202:A:GLY:HA2	7	0.22
(1,2777)	1:73:A:THR:HG23	1:202:A:GLY:HA2	7	0.22
(1,2742)	1:4:A:LYS:H	1:2:A:ASP:HA	8	0.22
(1,2688)	1:79:A:GLN:HB2	1:99:A:GLN:HA	3	0.22
(1,2650)	1:168:A:VAL:H	1:154:A:VAL:HB	9	0.22
(1,2572)	1:151:A:CYS:H	1:152:A:GLY:HA3	17	0.22
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD11	11	0.22
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD12	11	0.22
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD13	11	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD11	12	0.22
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD12	12	0.22
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD13	12	0.22
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD11	20	0.22
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD12	20	0.22
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD13	20	0.22
(1,2525)	1:33:A:ILE:HD11	1:50:A:VAL:HG11	15	0.22
(1,2525)	1:33:A:ILE:HD11	1:50:A:VAL:HG12	15	0.22
(1,2525)	1:33:A:ILE:HD11	1:50:A:VAL:HG13	15	0.22
(1,2525)	1:33:A:ILE:HD12	1:50:A:VAL:HG11	15	0.22
(1,2525)	1:33:A:ILE:HD12	1:50:A:VAL:HG12	15	0.22
(1,2525)	1:33:A:ILE:HD12	1:50:A:VAL:HG13	15	0.22
(1,2525)	1:33:A:ILE:HD13	1:50:A:VAL:HG11	15	0.22
(1,2525)	1:33:A:ILE:HD13	1:50:A:VAL:HG12	15	0.22
(1,2525)	1:33:A:ILE:HD13	1:50:A:VAL:HG13	15	0.22
(1,2520)	1:27:A:VAL:H	1:28:A:LYS:HA	12	0.22
(1,2471)	1:154:A:VAL:HG11	1:124:A:MET:HB3	3	0.22
(1,2471)	1:154:A:VAL:HG12	1:124:A:MET:HB3	3	0.22
(1,2471)	1:154:A:VAL:HG13	1:124:A:MET:HB3	3	0.22
(1,2404)	1:157:A:PRO:HD2	1:122:A:GLY:HA3	18	0.22
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD21	12	0.22
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD22	12	0.22
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD23	12	0.22
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD21	20	0.22
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD22	20	0.22
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD23	20	0.22
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG11	1	0.22
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG12	1	0.22
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG13	1	0.22
(1,2294)	1:153:A:PHE:H	1:154:A:VAL:HB	5	0.22
(1,2294)	1:153:A:PHE:H	1:154:A:VAL:HB	18	0.22
(1,2287)	1:43:A:PHE:H	1:41:A:ARG:HB3	16	0.22
(1,2285)	1:86:A:ARG:HD3	1:86:A:ARG:HA	6	0.22
(1,2285)	1:86:A:ARG:HD3	1:86:A:ARG:HA	15	0.22
(1,2284)	1:34:A:THR:HG21	1:26:A:VAL:HG21	16	0.22
(1,2284)	1:34:A:THR:HG21	1:26:A:VAL:HG22	16	0.22
(1,2284)	1:34:A:THR:HG21	1:26:A:VAL:HG23	16	0.22
(1,2284)	1:34:A:THR:HG22	1:26:A:VAL:HG21	16	0.22
(1,2284)	1:34:A:THR:HG22	1:26:A:VAL:HG22	16	0.22
(1,2284)	1:34:A:THR:HG22	1:26:A:VAL:HG23	16	0.22
(1,2284)	1:34:A:THR:HG23	1:26:A:VAL:HG21	16	0.22
(1,2284)	1:34:A:THR:HG23	1:26:A:VAL:HG22	16	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2284)	1:34:A:THR:HG23	1:26:A:VAL:HG23	16	0.22
(1,2284)	1:34:A:THR:HG21	1:26:A:VAL:HG21	20	0.22
(1,2284)	1:34:A:THR:HG21	1:26:A:VAL:HG22	20	0.22
(1,2284)	1:34:A:THR:HG21	1:26:A:VAL:HG23	20	0.22
(1,2284)	1:34:A:THR:HG22	1:26:A:VAL:HG21	20	0.22
(1,2284)	1:34:A:THR:HG22	1:26:A:VAL:HG22	20	0.22
(1,2284)	1:34:A:THR:HG22	1:26:A:VAL:HG23	20	0.22
(1,2284)	1:34:A:THR:HG23	1:26:A:VAL:HG21	20	0.22
(1,2284)	1:34:A:THR:HG23	1:26:A:VAL:HG22	20	0.22
(1,2284)	1:34:A:THR:HG23	1:26:A:VAL:HG23	20	0.22
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG11	11	0.22
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG12	11	0.22
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG13	11	0.22
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG11	11	0.22
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG12	11	0.22
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG13	11	0.22
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG11	11	0.22
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG12	11	0.22
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG13	11	0.22
(1,2252)	1:6:A:ILE:H	1:8:A:GLN:HG3	5	0.22
(1,2252)	1:6:A:ILE:H	1:8:A:GLN:HG3	14	0.22
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD11	3	0.22
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD12	3	0.22
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD13	3	0.22
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD11	9	0.22
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD12	9	0.22
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD13	9	0.22
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD11	1	0.22
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD12	1	0.22
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD13	1	0.22
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD11	8	0.22
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD12	8	0.22
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD13	8	0.22
(1,2144)	1:170:A:PHE:H	1:169:A:MET:H	2	0.22
(1,2065)	1:102:A:ALA:HB1	1:105:A:SER:HB3	7	0.22
(1,2065)	1:102:A:ALA:HB2	1:105:A:SER:HB3	7	0.22
(1,2065)	1:102:A:ALA:HB3	1:105:A:SER:HB3	7	0.22
(1,2064)	1:146:A:GLY:H	1:145:A:ARG:HG3	19	0.22
(1,2030)	1:28:A:LYS:H	1:34:A:THR:HA	17	0.22
(1,2020)	1:129:A:SER:H	1:116:A:TYR:H	3	0.22
(1,2020)	1:129:A:SER:H	1:116:A:TYR:H	9	0.22
(1,1966)	1:30:A:SER:H	1:35:A:VAL:H	11	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1908)	1:15:A:LEU:H	1:15:A:LEU:HG	1	0.22
(1,1908)	1:15:A:LEU:H	1:15:A:LEU:HG	3	0.22
(1,1908)	1:15:A:LEU:H	1:15:A:LEU:HG	9	0.22
(1,1908)	1:15:A:LEU:H	1:15:A:LEU:HG	13	0.22
(1,1898)	1:24:A:TRP:H	1:38:A:LYS:HB2	9	0.22
(1,1809)	1:2:A:ASP:HB2	1:5:A:ALA:HB1	9	0.22
(1,1809)	1:2:A:ASP:HB2	1:5:A:ALA:HB2	9	0.22
(1,1809)	1:2:A:ASP:HB2	1:5:A:ALA:HB3	9	0.22
(1,1716)	1:134:A:PHE:H	1:112:A:ILE:HB	17	0.22
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB1	3	0.22
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB2	3	0.22
(1,1646)	1:4:A:LYS:H	1:7:A:ALA:HB3	3	0.22
(1,1589)	1:190:A:SER:HB3	1:102:A:ALA:HB1	12	0.22
(1,1589)	1:190:A:SER:HB3	1:102:A:ALA:HB2	12	0.22
(1,1589)	1:190:A:SER:HB3	1:102:A:ALA:HB3	12	0.22
(1,1581)	1:22:A:SER:H	1:21:A:THR:HG21	7	0.22
(1,1581)	1:22:A:SER:H	1:21:A:THR:HG22	7	0.22
(1,1581)	1:22:A:SER:H	1:21:A:THR:HG23	7	0.22
(1,1580)	1:174:A:GLU:H	1:147:A:TYR:HA	12	0.22
(1,1343)	1:129:A:SER:HB2	1:127:A:ILE:HG13	19	0.22
(1,1253)	1:63:A:ASP:H	1:62:A:SER:HB3	1	0.22
(1,1253)	1:63:A:ASP:H	1:62:A:SER:HB3	19	0.22
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB1	16	0.22
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB2	16	0.22
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB3	16	0.22
(1,1179)	1:160:A:GLU:H	1:158:A:MET:HG2	6	0.22
(1,1038)	1:127:A:ILE:HG13	1:152:A:GLY:HA2	20	0.22
(1,1033)	1:144:A:ILE:H	1:109:A:ARG:HD3	6	0.22
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD11	2	0.22
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD12	2	0.22
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD13	2	0.22
(1,955)	1:196:A:ILE:HD11	1:167:A:LEU:HG	14	0.22
(1,955)	1:196:A:ILE:HD12	1:167:A:LEU:HG	14	0.22
(1,955)	1:196:A:ILE:HD13	1:167:A:LEU:HG	14	0.22
(1,905)	1:38:A:LYS:H	1:37:A:SER:H	1	0.22
(1,905)	1:38:A:LYS:H	1:37:A:SER:H	4	0.22
(1,905)	1:38:A:LYS:H	1:37:A:SER:H	8	0.22
(1,905)	1:38:A:LYS:H	1:37:A:SER:H	11	0.22
(1,905)	1:38:A:LYS:H	1:37:A:SER:H	15	0.22
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB1	3	0.22
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB2	3	0.22
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB3	3	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB1	4	0.22
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB2	4	0.22
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB3	4	0.22
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB1	17	0.22
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB2	17	0.22
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB3	17	0.22
(1,878)	1:180:A:SER:H	1:184:A:ILE:HB	7	0.22
(1,878)	1:180:A:SER:H	1:184:A:ILE:HB	20	0.22
(1,855)	1:192:A:LEU:H	1:50:A:VAL:HG11	20	0.22
(1,855)	1:192:A:LEU:H	1:50:A:VAL:HG12	20	0.22
(1,855)	1:192:A:LEU:H	1:50:A:VAL:HG13	20	0.22
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG11	16	0.22
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG12	16	0.22
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG13	16	0.22
(1,816)	1:162:A:PRO:HA	1:158:A:MET:H	10	0.22
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG11	13	0.22
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG12	13	0.22
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG13	13	0.22
(1,792)	1:21:A:THR:H	1:22:A:SER:HB2	14	0.22
(1,770)	1:53:A:ILE:HD11	1:32:A:LYS:HE2	20	0.22
(1,770)	1:53:A:ILE:HD12	1:32:A:LYS:HE2	20	0.22
(1,770)	1:53:A:ILE:HD13	1:32:A:LYS:HE2	20	0.22
(1,710)	1:150:A:PRO:HB2	1:14:A:VAL:HG21	11	0.22
(1,710)	1:150:A:PRO:HB2	1:14:A:VAL:HG22	11	0.22
(1,710)	1:150:A:PRO:HB2	1:14:A:VAL:HG23	11	0.22
(1,704)	1:109:A:ARG:H	1:97:A:ILE:HG21	4	0.22
(1,704)	1:109:A:ARG:H	1:97:A:ILE:HG22	4	0.22
(1,704)	1:109:A:ARG:H	1:97:A:ILE:HG23	4	0.22
(1,666)	1:137:A:TYR:HB2	1:112:A:ILE:HG12	11	0.22
(1,664)	1:140:A:SER:H	1:139:A:PRO:HG3	1	0.22
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD11	11	0.22
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD12	11	0.22
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD13	11	0.22
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD11	11	0.22
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD12	11	0.22
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD13	11	0.22
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD11	11	0.22
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD12	11	0.22
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD13	11	0.22
(1,647)	1:37:A:SER:H	1:25:A:LYS:HB2	16	0.22
(1,554)	1:61:A:LEU:H	1:59:A:ALA:HA	7	0.22
(1,554)	1:61:A:LEU:H	1:59:A:ALA:HA	19	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,420)	1:199:A:ALA:H	1:197:A:LEU:HB2	8	0.22
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD21	15	0.22
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD22	15	0.22
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD23	15	0.22
(1,378)	1:71:A:ARG:HB2	1:67:A:GLN:H	7	0.22
(1,368)	1:192:A:LEU:HG	1:171:A:VAL:HG21	11	0.22
(1,368)	1:192:A:LEU:HG	1:171:A:VAL:HG22	11	0.22
(1,368)	1:192:A:LEU:HG	1:171:A:VAL:HG23	11	0.22
(1,365)	1:145:A:ARG:HG3	1:112:A:ILE:HG13	9	0.22
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG11	12	0.22
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG12	12	0.22
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG13	12	0.22
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG11	12	0.22
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG12	12	0.22
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG13	12	0.22
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG11	12	0.22
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG12	12	0.22
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG13	12	0.22
(1,273)	1:161:A:ASN:H	1:160:A:GLU:HB2	2	0.22
(1,260)	1:145:A:ARG:HG3	1:147:A:TYR:HA	1	0.22
(1,260)	1:145:A:ARG:HG3	1:147:A:TYR:HA	6	0.22
(1,199)	1:10:A:THR:HG21	1:8:A:GLN:H	13	0.22
(1,199)	1:10:A:THR:HG22	1:8:A:GLN:H	13	0.22
(1,199)	1:10:A:THR:HG23	1:8:A:GLN:H	13	0.22
(1,144)	1:202:A:GLY:H	1:200:A:LYS:HB2	5	0.22
(1,118)	1:25:A:LYS:H	1:25:A:LYS:HG3	9	0.22
(1,52)	1:14:A:VAL:HB	1:16:A:GLY:H	4	0.22
(1,42)	1:46:A:ASN:HB2	1:45:A:GLY:H	2	0.22
(1,4358)	1:71:A:ARG:H	1:74:A:TRP:HD1	16	0.21
(1,4346)	1:197:A:LEU:H	1:194:A:ASN:HB3	5	0.21
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD11	2	0.21
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD12	2	0.21
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD13	2	0.21
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD11	7	0.21
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD12	7	0.21
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD13	7	0.21
(1,4325)	1:203:A:ILE:HG21	1:61:A:LEU:H	9	0.21
(1,4325)	1:203:A:ILE:HG22	1:61:A:LEU:H	9	0.21
(1,4325)	1:203:A:ILE:HG23	1:61:A:LEU:H	9	0.21
(1,4324)	1:35:A:VAL:HG21	1:27:A:VAL:H	12	0.21
(1,4324)	1:35:A:VAL:HG22	1:27:A:VAL:H	12	0.21
(1,4324)	1:35:A:VAL:HG23	1:27:A:VAL:H	12	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG21	9	0.21
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG22	9	0.21
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG23	9	0.21
(1,4180)	1:81:A:TYR:H	1:68:A:THR:HA	15	0.21
(1,4176)	1:34:A:THR:HG21	1:33:A:ILE:HA	9	0.21
(1,4176)	1:34:A:THR:HG22	1:33:A:ILE:HA	9	0.21
(1,4176)	1:34:A:THR:HG23	1:33:A:ILE:HA	9	0.21
(1,4176)	1:34:A:THR:HG21	1:33:A:ILE:HA	18	0.21
(1,4176)	1:34:A:THR:HG22	1:33:A:ILE:HA	18	0.21
(1,4176)	1:34:A:THR:HG23	1:33:A:ILE:HA	18	0.21
(1,4133)	1:28:A:LYS:H	1:37:A:SER:H	12	0.21
(1,4070)	1:42:A:LYS:HD3	1:42:A:LYS:HB3	12	0.21
(1,4067)	1:168:A:VAL:HG21	1:51:A:GLU:HB3	12	0.21
(1,4067)	1:168:A:VAL:HG22	1:51:A:GLU:HB3	12	0.21
(1,4067)	1:168:A:VAL:HG23	1:51:A:GLU:HB3	12	0.21
(1,4057)	1:145:A:ARG:H	1:143:A:TYR:HA	12	0.21
(1,3936)	1:183:A:ILE:H	1:179:A:LEU:HB2	7	0.21
(1,3898)	1:166:A:LYS:H	1:156:A:SER:HB3	1	0.21
(1,3881)	1:123:A:ASN:HA	1:157:A:PRO:HG3	19	0.21
(1,3759)	1:48:A:TYR:H	1:170:A:PHE:HB3	3	0.21
(1,3749)	1:8:A:GLN:H	1:11:A:ALA:H	8	0.21
(1,3719)	1:67:A:GLN:HA	1:71:A:ARG:HG3	13	0.21
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD21	2	0.21
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD22	2	0.21
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD23	2	0.21
(1,3623)	1:13:A:GLU:H	1:13:A:GLU:HG2	5	0.21
(1,3600)	1:82:A:ASN:H	1:83:A:MET:HB2	1	0.21
(1,3589)	1:186:A:LYS:H	1:106:A:ILE:HD11	19	0.21
(1,3589)	1:186:A:LYS:H	1:106:A:ILE:HD12	19	0.21
(1,3589)	1:186:A:LYS:H	1:106:A:ILE:HD13	19	0.21
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB1	7	0.21
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB2	7	0.21
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB3	7	0.21
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB1	11	0.21
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB2	11	0.21
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB3	11	0.21
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB1	14	0.21
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB2	14	0.21
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB3	14	0.21
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB1	16	0.21
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB2	16	0.21
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB3	16	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3522)	1:112:A:ILE:H	1:96:A:THR:HB	8	0.21
(1,3522)	1:112:A:ILE:H	1:96:A:THR:HB	12	0.21
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD11	12	0.21
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD12	12	0.21
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD13	12	0.21
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD11	13	0.21
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD12	13	0.21
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD13	13	0.21
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG21	15	0.21
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG22	15	0.21
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG23	15	0.21
(1,3421)	1:99:A:GLN:H	1:109:A:ARG:H	13	0.21
(1,3421)	1:99:A:GLN:H	1:109:A:ARG:H	15	0.21
(1,3421)	1:99:A:GLN:H	1:109:A:ARG:H	17	0.21
(1,3358)	1:15:A:LEU:HD11	1:12:A:GLN:H	1	0.21
(1,3358)	1:15:A:LEU:HD12	1:12:A:GLN:H	1	0.21
(1,3358)	1:15:A:LEU:HD13	1:12:A:GLN:H	1	0.21
(1,3358)	1:15:A:LEU:HD11	1:12:A:GLN:H	16	0.21
(1,3358)	1:15:A:LEU:HD12	1:12:A:GLN:H	16	0.21
(1,3358)	1:15:A:LEU:HD13	1:12:A:GLN:H	16	0.21
(1,3358)	1:15:A:LEU:HD11	1:12:A:GLN:H	19	0.21
(1,3358)	1:15:A:LEU:HD12	1:12:A:GLN:H	19	0.21
(1,3358)	1:15:A:LEU:HD13	1:12:A:GLN:H	19	0.21
(1,3096)	1:61:A:LEU:HG	1:57:A:SER:HA	2	0.21
(1,3091)	1:124:A:MET:H	1:119:A:ARG:HA	1	0.21
(1,3075)	1:192:A:LEU:H	1:193:A:VAL:HG11	2	0.21
(1,3075)	1:192:A:LEU:H	1:193:A:VAL:HG12	2	0.21
(1,3075)	1:192:A:LEU:H	1:193:A:VAL:HG13	2	0.21
(1,3045)	1:136:A:GLU:H	1:137:A:TYR:HB2	4	0.21
(1,3026)	1:26:A:VAL:HG21	1:27:A:VAL:HA	17	0.21
(1,3026)	1:26:A:VAL:HG22	1:27:A:VAL:HA	17	0.21
(1,3026)	1:26:A:VAL:HG23	1:27:A:VAL:HA	17	0.21
(1,2972)	1:122:A:GLY:H	1:121:A:GLU:HB2	10	0.21
(1,2904)	1:35:A:VAL:H	1:29:A:THR:HG21	7	0.21
(1,2904)	1:35:A:VAL:H	1:29:A:THR:HG22	7	0.21
(1,2904)	1:35:A:VAL:H	1:29:A:THR:HG23	7	0.21
(1,2834)	1:207:A:ARG:H	1:207:A:ARG:HG3	20	0.21
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG21	8	0.21
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG22	8	0.21
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG23	8	0.21
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG21	8	0.21
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG22	8	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG23	8	0.21
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG21	8	0.21
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG22	8	0.21
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG23	8	0.21
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG21	9	0.21
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG22	9	0.21
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG23	9	0.21
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG21	9	0.21
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG22	9	0.21
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG23	9	0.21
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG21	9	0.21
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG22	9	0.21
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG23	9	0.21
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG21	15	0.21
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG22	15	0.21
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG23	15	0.21
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG21	15	0.21
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG22	15	0.21
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG23	15	0.21
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG21	15	0.21
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG22	15	0.21
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG23	15	0.21
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG21	19	0.21
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG22	19	0.21
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG23	19	0.21
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG21	19	0.21
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG22	19	0.21
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG23	19	0.21
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG21	19	0.21
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG22	19	0.21
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG23	19	0.21
(1,2777)	1:73:A:THR:HG21	1:202:A:GLY:HA2	5	0.21
(1,2777)	1:73:A:THR:HG22	1:202:A:GLY:HA2	5	0.21
(1,2777)	1:73:A:THR:HG23	1:202:A:GLY:HA2	5	0.21
(1,2766)	1:159:A:GLU:HB3	1:160:A:GLU:HG3	4	0.21
(1,2742)	1:4:A:LYS:H	1:2:A:ASP:HA	11	0.21
(1,2704)	1:162:A:PRO:HA	1:162:A:PRO:HD3	3	0.21
(1,2704)	1:162:A:PRO:HA	1:162:A:PRO:HD3	5	0.21
(1,2704)	1:162:A:PRO:HA	1:162:A:PRO:HD3	9	0.21
(1,2650)	1:168:A:VAL:H	1:154:A:VAL:HB	3	0.21
(1,2650)	1:168:A:VAL:H	1:154:A:VAL:HB	19	0.21
(1,2637)	1:187:A:THR:HG21	1:175:A:MET:HG3	13	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2637)	1:187:A:THR:HG22	1:175:A:MET:HG3	13	0.21
(1,2637)	1:187:A:THR:HG23	1:175:A:MET:HG3	13	0.21
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD11	2	0.21
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD12	2	0.21
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD13	2	0.21
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD11	6	0.21
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD12	6	0.21
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD13	6	0.21
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD11	18	0.21
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD12	18	0.21
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD13	18	0.21
(1,2520)	1:27:A:VAL:H	1:28:A:LYS:HA	9	0.21
(1,2520)	1:27:A:VAL:H	1:28:A:LYS:HA	14	0.21
(1,2439)	1:202:A:GLY:H	1:198:A:ASN:HB3	9	0.21
(1,2439)	1:202:A:GLY:H	1:198:A:ASN:HB3	10	0.21
(1,2439)	1:202:A:GLY:H	1:198:A:ASN:HB3	12	0.21
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD21	3	0.21
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD22	3	0.21
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD23	3	0.21
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB1	9	0.21
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB2	9	0.21
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB3	9	0.21
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB1	11	0.21
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB2	11	0.21
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB3	11	0.21
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG11	4	0.21
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG12	4	0.21
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG13	4	0.21
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG11	9	0.21
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG12	9	0.21
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG13	9	0.21
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG11	14	0.21
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG12	14	0.21
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG13	14	0.21
(1,2332)	1:78:A:LEU:H	1:76:A:LYS:HB2	3	0.21
(1,2294)	1:153:A:PHE:H	1:154:A:VAL:HB	9	0.21
(1,2294)	1:153:A:PHE:H	1:154:A:VAL:HB	12	0.21
(1,2287)	1:43:A:PHE:H	1:41:A:ARG:HB3	11	0.21
(1,2252)	1:6:A:ILE:H	1:8:A:GLN:HG3	11	0.21
(1,2252)	1:6:A:ILE:H	1:8:A:GLN:HG3	12	0.21
(1,2144)	1:170:A:PHE:H	1:169:A:MET:H	6	0.21
(1,2144)	1:170:A:PHE:H	1:169:A:MET:H	11	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2144)	1:170:A:PHE:H	1:169:A:MET:H	12	0.21
(1,2144)	1:170:A:PHE:H	1:169:A:MET:H	15	0.21
(1,2020)	1:129:A:SER:H	1:116:A:TYR:H	5	0.21
(1,1908)	1:15:A:LEU:H	1:15:A:LEU:HG	2	0.21
(1,1908)	1:15:A:LEU:H	1:15:A:LEU:HG	4	0.21
(1,1908)	1:15:A:LEU:H	1:15:A:LEU:HG	8	0.21
(1,1908)	1:15:A:LEU:H	1:15:A:LEU:HG	10	0.21
(1,1908)	1:15:A:LEU:H	1:15:A:LEU:HG	16	0.21
(1,1908)	1:15:A:LEU:H	1:15:A:LEU:HG	20	0.21
(1,1869)	1:65:A:LEU:H	1:64:A:PHE:HZ	7	0.21
(1,1869)	1:65:A:LEU:H	1:64:A:PHE:HZ	12	0.21
(1,1869)	1:65:A:LEU:H	1:64:A:PHE:HZ	19	0.21
(1,1804)	1:165:A:SER:H	1:55:A:PRO:HD3	1	0.21
(1,1804)	1:165:A:SER:H	1:55:A:PRO:HD3	8	0.21
(1,1804)	1:165:A:SER:H	1:55:A:PRO:HD3	15	0.21
(1,1804)	1:165:A:SER:H	1:55:A:PRO:HD3	20	0.21
(1,1790)	1:144:A:ILE:HG21	1:177:A:GLY:HA2	10	0.21
(1,1790)	1:144:A:ILE:HG22	1:177:A:GLY:HA2	10	0.21
(1,1790)	1:144:A:ILE:HG23	1:177:A:GLY:HA2	10	0.21
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD11	13	0.21
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD12	13	0.21
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD13	13	0.21
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD11	13	0.21
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD12	13	0.21
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD13	13	0.21
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD11	13	0.21
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD12	13	0.21
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD13	13	0.21
(1,1716)	1:134:A:PHE:H	1:112:A:ILE:HB	7	0.21
(1,1581)	1:22:A:SER:H	1:21:A:THR:HG21	1	0.21
(1,1581)	1:22:A:SER:H	1:21:A:THR:HG22	1	0.21
(1,1581)	1:22:A:SER:H	1:21:A:THR:HG23	1	0.21
(1,1580)	1:174:A:GLU:H	1:147:A:TYR:HA	3	0.21
(1,1580)	1:174:A:GLU:H	1:147:A:TYR:HA	19	0.21
(1,1570)	1:175:A:MET:H	1:174:A:GLU:HG3	18	0.21
(1,1508)	1:129:A:SER:HB3	1:113:A:ASP:H	15	0.21
(1,1481)	1:132:A:VAL:HG11	1:130:A:LYS:H	1	0.21
(1,1481)	1:132:A:VAL:HG12	1:130:A:LYS:H	1	0.21
(1,1481)	1:132:A:VAL:HG13	1:130:A:LYS:H	1	0.21
(1,1481)	1:132:A:VAL:HG11	1:130:A:LYS:H	15	0.21
(1,1481)	1:132:A:VAL:HG12	1:130:A:LYS:H	15	0.21
(1,1481)	1:132:A:VAL:HG13	1:130:A:LYS:H	15	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1438)	1:192:A:LEU:HG	1:188:A:MET:HB3	18	0.21
(1,1405)	1:42:A:LYS:HB3	1:43:A:PHE:HB2	10	0.21
(1,1315)	1:37:A:SER:H	1:49:A:ARG:H	15	0.21
(1,1259)	1:25:A:LYS:H	1:24:A:TRP:HE1	1	0.21
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG21	9	0.21
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG22	9	0.21
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG23	9	0.21
(1,1067)	1:70:A:ASP:HB3	1:73:A:THR:H	14	0.21
(1,1054)	1:114:A:LEU:H	1:131:A:SER:HB2	1	0.21
(1,1033)	1:144:A:ILE:H	1:109:A:ARG:HD3	3	0.21
(1,1030)	1:26:A:VAL:H	1:36:A:SER:HB2	17	0.21
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD11	19	0.21
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD12	19	0.21
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD13	19	0.21
(1,955)	1:196:A:ILE:HD11	1:167:A:LEU:HG	20	0.21
(1,955)	1:196:A:ILE:HD12	1:167:A:LEU:HG	20	0.21
(1,955)	1:196:A:ILE:HD13	1:167:A:LEU:HG	20	0.21
(1,949)	1:151:A:CYS:H	1:149:A:HIS:HB2	11	0.21
(1,949)	1:151:A:CYS:H	1:149:A:HIS:HB2	13	0.21
(1,905)	1:38:A:LYS:H	1:37:A:SER:H	9	0.21
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB1	13	0.21
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB2	13	0.21
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB3	13	0.21
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB1	16	0.21
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB2	16	0.21
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB3	16	0.21
(1,878)	1:180:A:SER:H	1:184:A:ILE:HB	10	0.21
(1,833)	1:60:A:LYS:HE3	1:203:A:ILE:HD11	2	0.21
(1,833)	1:60:A:LYS:HE3	1:203:A:ILE:HD12	2	0.21
(1,833)	1:60:A:LYS:HE3	1:203:A:ILE:HD13	2	0.21
(1,833)	1:60:A:LYS:HE3	1:203:A:ILE:HD11	11	0.21
(1,833)	1:60:A:LYS:HE3	1:203:A:ILE:HD12	11	0.21
(1,833)	1:60:A:LYS:HE3	1:203:A:ILE:HD13	11	0.21
(1,816)	1:162:A:PRO:HA	1:158:A:MET:H	3	0.21
(1,816)	1:162:A:PRO:HA	1:158:A:MET:H	4	0.21
(1,816)	1:162:A:PRO:HA	1:158:A:MET:H	12	0.21
(1,792)	1:21:A:THR:H	1:22:A:SER:HB2	9	0.21
(1,789)	1:176:A:ARG:HA	1:174:A:GLU:HG2	7	0.21
(1,749)	1:105:A:SER:HB2	1:179:A:LEU:HG	3	0.21
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG21	4	0.21
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG22	4	0.21
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG23	4	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,691)	1:71:A:ARG:HB2	1:68:A:THR:H	6	0.21
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD11	10	0.21
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD12	10	0.21
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD13	10	0.21
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD11	10	0.21
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD12	10	0.21
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD13	10	0.21
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD11	10	0.21
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD12	10	0.21
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD13	10	0.21
(1,647)	1:37:A:SER:H	1:25:A:LYS:HB2	1	0.21
(1,599)	1:39:A:ALA:H	1:46:A:ASN:HB3	12	0.21
(1,593)	1:84:A:VAL:H	1:86:A:ARG:HG2	4	0.21
(1,554)	1:61:A:LEU:H	1:59:A:ALA:HA	17	0.21
(1,539)	1:206:A:HIS:H	1:202:A:GLY:HA3	18	0.21
(1,517)	1:68:A:THR:H	1:67:A:GLN:HG2	18	0.21
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD11	4	0.21
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD12	4	0.21
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD13	4	0.21
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD11	18	0.21
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD12	18	0.21
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD13	18	0.21
(1,420)	1:199:A:ALA:H	1:197:A:LEU:HB2	6	0.21
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG11	5	0.21
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG12	5	0.21
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG13	5	0.21
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG11	5	0.21
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG12	5	0.21
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG13	5	0.21
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG11	5	0.21
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG12	5	0.21
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG13	5	0.21
(1,273)	1:161:A:ASN:H	1:160:A:GLU:HB2	12	0.21
(1,268)	1:43:A:PHE:H	1:44:A:HIS:HA	20	0.21
(1,216)	1:76:A:LYS:H	1:76:A:LYS:HD2	7	0.21
(1,162)	1:167:A:LEU:H	1:168:A:VAL:H	4	0.21
(1,144)	1:202:A:GLY:H	1:200:A:LYS:HB2	2	0.21
(1,144)	1:202:A:GLY:H	1:200:A:LYS:HB2	9	0.21
(1,144)	1:202:A:GLY:H	1:200:A:LYS:HB2	19	0.21
(1,42)	1:46:A:ASN:HB2	1:45:A:GLY:H	8	0.21
(1,23)	1:98:A:THR:HG21	1:110:A:ASP:H	7	0.21
(1,23)	1:98:A:THR:HG22	1:110:A:ASP:H	7	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,23)	1:98:A:THR:HG23	1:110:A:ASP:H	7	0.21
(1,4383)	1:137:A:TYR:HB3	1:136:A:GLU:HB3	5	0.2
(1,4372)	1:206:A:HIS:H	1:203:A:ILE:H	11	0.2
(1,4350)	1:21:A:THR:HG21	1:20:A:ASP:HB2	5	0.2
(1,4350)	1:21:A:THR:HG22	1:20:A:ASP:HB2	5	0.2
(1,4350)	1:21:A:THR:HG23	1:20:A:ASP:HB2	5	0.2
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD11	8	0.2
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD12	8	0.2
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD13	8	0.2
(1,4325)	1:203:A:ILE:HG21	1:61:A:LEU:H	17	0.2
(1,4325)	1:203:A:ILE:HG22	1:61:A:LEU:H	17	0.2
(1,4325)	1:203:A:ILE:HG23	1:61:A:LEU:H	17	0.2
(1,4259)	1:140:A:SER:H	1:141:A:SER:HA	10	0.2
(1,4180)	1:81:A:TYR:H	1:68:A:THR:HA	3	0.2
(1,4176)	1:34:A:THR:HG21	1:33:A:ILE:HA	14	0.2
(1,4176)	1:34:A:THR:HG22	1:33:A:ILE:HA	14	0.2
(1,4176)	1:34:A:THR:HG23	1:33:A:ILE:HA	14	0.2
(1,4139)	1:18:A:ASN:H	1:17:A:TYR:HB3	6	0.2
(1,4139)	1:18:A:ASN:H	1:17:A:TYR:HB3	9	0.2
(1,4133)	1:28:A:LYS:H	1:37:A:SER:H	17	0.2
(1,4113)	1:98:A:THR:HG21	1:109:A:ARG:HG3	20	0.2
(1,4113)	1:98:A:THR:HG22	1:109:A:ARG:HG3	20	0.2
(1,4113)	1:98:A:THR:HG23	1:109:A:ARG:HG3	20	0.2
(1,4067)	1:168:A:VAL:HG21	1:51:A:GLU:HB3	8	0.2
(1,4067)	1:168:A:VAL:HG22	1:51:A:GLU:HB3	8	0.2
(1,4067)	1:168:A:VAL:HG23	1:51:A:GLU:HB3	8	0.2
(1,4057)	1:145:A:ARG:H	1:143:A:TYR:HA	1	0.2
(1,3872)	1:203:A:ILE:H	1:61:A:LEU:HD21	12	0.2
(1,3872)	1:203:A:ILE:H	1:61:A:LEU:HD22	12	0.2
(1,3872)	1:203:A:ILE:H	1:61:A:LEU:HD23	12	0.2
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG11	3	0.2
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG12	3	0.2
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG13	3	0.2
(1,3779)	1:114:A:LEU:H	1:130:A:LYS:HB3	16	0.2
(1,3732)	1:153:A:PHE:H	1:14:A:VAL:HB	7	0.2
(1,3719)	1:67:A:GLN:HA	1:71:A:ARG:HG3	9	0.2
(1,3701)	1:180:A:SER:H	1:179:A:LEU:H	5	0.2
(1,3701)	1:180:A:SER:H	1:179:A:LEU:H	6	0.2
(1,3701)	1:180:A:SER:H	1:179:A:LEU:H	7	0.2
(1,3701)	1:180:A:SER:H	1:179:A:LEU:H	18	0.2
(1,3684)	1:61:A:LEU:H	1:56:A:GLU:HG2	5	0.2
(1,3646)	1:54:A:ILE:HD11	1:203:A:ILE:HG21	16	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3646)	1:54:A:ILE:HD11	1:203:A:ILE:HG22	16	0.2
(1,3646)	1:54:A:ILE:HD11	1:203:A:ILE:HG23	16	0.2
(1,3646)	1:54:A:ILE:HD12	1:203:A:ILE:HG21	16	0.2
(1,3646)	1:54:A:ILE:HD12	1:203:A:ILE:HG22	16	0.2
(1,3646)	1:54:A:ILE:HD12	1:203:A:ILE:HG23	16	0.2
(1,3646)	1:54:A:ILE:HD13	1:203:A:ILE:HG21	16	0.2
(1,3646)	1:54:A:ILE:HD13	1:203:A:ILE:HG22	16	0.2
(1,3646)	1:54:A:ILE:HD13	1:203:A:ILE:HG23	16	0.2
(1,3624)	1:179:A:LEU:HA	1:106:A:ILE:HG12	12	0.2
(1,3619)	1:151:A:CYS:H	1:128:A:SER:HA	7	0.2
(1,3600)	1:82:A:ASN:H	1:83:A:MET:HB2	5	0.2
(1,3600)	1:82:A:ASN:H	1:83:A:MET:HB2	11	0.2
(1,3599)	1:131:A:SER:H	1:132:A:VAL:HA	14	0.2
(1,3599)	1:131:A:SER:H	1:132:A:VAL:HA	19	0.2
(1,3566)	1:134:A:PHE:HB3	1:132:A:VAL:HB	9	0.2
(1,3566)	1:134:A:PHE:HB3	1:132:A:VAL:HB	16	0.2
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB1	1	0.2
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB2	1	0.2
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB3	1	0.2
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB1	6	0.2
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB2	6	0.2
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB3	6	0.2
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB1	10	0.2
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB2	10	0.2
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB3	10	0.2
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB1	15	0.2
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB2	15	0.2
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB3	15	0.2
(1,3549)	1:76:A:LYS:H	1:198:A:ASN:H	18	0.2
(1,3537)	1:28:A:LYS:H	1:28:A:LYS:HD2	2	0.2
(1,3525)	1:68:A:THR:HG21	1:69:A:GLY:HA3	9	0.2
(1,3525)	1:68:A:THR:HG22	1:69:A:GLY:HA3	9	0.2
(1,3525)	1:68:A:THR:HG23	1:69:A:GLY:HA3	9	0.2
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD11	10	0.2
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD12	10	0.2
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD13	10	0.2
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD11	15	0.2
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD12	15	0.2
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD13	15	0.2
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG21	1	0.2
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG22	1	0.2
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG23	1	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG21	19	0.2
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG22	19	0.2
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG23	19	0.2
(1,3486)	1:36:A:SER:HA	1:24:A:TRP:HA	7	0.2
(1,3486)	1:36:A:SER:HA	1:24:A:TRP:HA	11	0.2
(1,3486)	1:36:A:SER:HA	1:24:A:TRP:HA	13	0.2
(1,3421)	1:99:A:GLN:H	1:109:A:ARG:H	5	0.2
(1,3420)	1:95:A:HIS:H	1:112:A:ILE:HG21	10	0.2
(1,3420)	1:95:A:HIS:H	1:112:A:ILE:HG22	10	0.2
(1,3420)	1:95:A:HIS:H	1:112:A:ILE:HG23	10	0.2
(1,3419)	1:203:A:ILE:HG21	1:207:A:ARG:H	7	0.2
(1,3419)	1:203:A:ILE:HG22	1:207:A:ARG:H	7	0.2
(1,3419)	1:203:A:ILE:HG23	1:207:A:ARG:H	7	0.2
(1,3410)	1:167:A:LEU:H	1:52:A:GLY:HA2	10	0.2
(1,3173)	1:61:A:LEU:H	1:63:A:ASP:HB2	3	0.2
(1,3096)	1:61:A:LEU:HG	1:57:A:SER:HA	18	0.2
(1,3091)	1:124:A:MET:H	1:119:A:ARG:HA	6	0.2
(1,3047)	1:145:A:ARG:H	1:145:A:ARG:HD3	19	0.2
(1,3026)	1:26:A:VAL:HG21	1:27:A:VAL:HA	18	0.2
(1,3026)	1:26:A:VAL:HG22	1:27:A:VAL:HA	18	0.2
(1,3026)	1:26:A:VAL:HG23	1:27:A:VAL:HA	18	0.2
(1,2988)	1:137:A:TYR:H	1:135:A:PRO:HB2	16	0.2
(1,2972)	1:122:A:GLY:H	1:121:A:GLU:HB2	12	0.2
(1,2966)	1:17:A:TYR:H	1:15:A:LEU:HG	6	0.2
(1,2966)	1:17:A:TYR:H	1:15:A:LEU:HG	12	0.2
(1,2966)	1:17:A:TYR:H	1:15:A:LEU:HG	19	0.2
(1,2960)	1:132:A:VAL:H	1:133:A:ASP:HB2	20	0.2
(1,2896)	1:158:A:MET:H	1:158:A:MET:HG3	11	0.2
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG21	10	0.2
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG22	10	0.2
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG23	10	0.2
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG21	10	0.2
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG22	10	0.2
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG23	10	0.2
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG21	10	0.2
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG22	10	0.2
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG23	10	0.2
(1,2800)	1:203:A:ILE:HD11	1:54:A:ILE:HB	8	0.2
(1,2800)	1:203:A:ILE:HD12	1:54:A:ILE:HB	8	0.2
(1,2800)	1:203:A:ILE:HD13	1:54:A:ILE:HB	8	0.2
(1,2775)	1:106:A:ILE:H	1:104:A:GLY:HA2	3	0.2
(1,2762)	1:197:A:LEU:H	1:200:A:LYS:H	1	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2704)	1:162:A:PRO:HA	1:162:A:PRO:HD3	6	0.2
(1,2704)	1:162:A:PRO:HA	1:162:A:PRO:HD3	16	0.2
(1,2704)	1:162:A:PRO:HA	1:162:A:PRO:HD3	18	0.2
(1,2704)	1:162:A:PRO:HA	1:162:A:PRO:HD3	20	0.2
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB1	1	0.2
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB2	1	0.2
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB3	1	0.2
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB1	3	0.2
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB2	3	0.2
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB3	3	0.2
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD11	8	0.2
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD12	8	0.2
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD13	8	0.2
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD21	14	0.2
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD22	14	0.2
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD23	14	0.2
(1,2525)	1:33:A:ILE:HD11	1:50:A:VAL:HG11	2	0.2
(1,2525)	1:33:A:ILE:HD11	1:50:A:VAL:HG12	2	0.2
(1,2525)	1:33:A:ILE:HD11	1:50:A:VAL:HG13	2	0.2
(1,2525)	1:33:A:ILE:HD12	1:50:A:VAL:HG11	2	0.2
(1,2525)	1:33:A:ILE:HD12	1:50:A:VAL:HG12	2	0.2
(1,2525)	1:33:A:ILE:HD12	1:50:A:VAL:HG13	2	0.2
(1,2525)	1:33:A:ILE:HD13	1:50:A:VAL:HG11	2	0.2
(1,2525)	1:33:A:ILE:HD13	1:50:A:VAL:HG12	2	0.2
(1,2525)	1:33:A:ILE:HD13	1:50:A:VAL:HG13	2	0.2
(1,2520)	1:27:A:VAL:H	1:28:A:LYS:HA	2	0.2
(1,2520)	1:27:A:VAL:H	1:28:A:LYS:HA	6	0.2
(1,2442)	1:38:A:LYS:H	1:46:A:ASN:HB2	8	0.2
(1,2439)	1:202:A:GLY:H	1:198:A:ASN:HB3	11	0.2
(1,2439)	1:202:A:GLY:H	1:198:A:ASN:HB3	17	0.2
(1,2404)	1:157:A:PRO:HD2	1:122:A:GLY:HA3	1	0.2
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD21	4	0.2
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD22	4	0.2
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD23	4	0.2
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD21	7	0.2
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD22	7	0.2
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD23	7	0.2
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG11	6	0.2
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG12	6	0.2
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG13	6	0.2
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG11	7	0.2
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG12	7	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG13	7	0.2
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG11	18	0.2
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG12	18	0.2
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG13	18	0.2
(1,2294)	1:153:A:PHE:H	1:154:A:VAL:HB	1	0.2
(1,2294)	1:153:A:PHE:H	1:154:A:VAL:HB	11	0.2
(1,2287)	1:43:A:PHE:H	1:41:A:ARG:HB3	6	0.2
(1,2252)	1:6:A:ILE:H	1:8:A:GLN:HG3	1	0.2
(1,2252)	1:6:A:ILE:H	1:8:A:GLN:HG3	2	0.2
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD11	15	0.2
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD12	15	0.2
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD13	15	0.2
(1,2144)	1:170:A:PHE:H	1:169:A:MET:H	5	0.2
(1,2144)	1:170:A:PHE:H	1:169:A:MET:H	9	0.2
(1,2144)	1:170:A:PHE:H	1:169:A:MET:H	13	0.2
(1,2119)	1:46:A:ASN:H	1:184:A:ILE:HG21	20	0.2
(1,2119)	1:46:A:ASN:H	1:184:A:ILE:HG22	20	0.2
(1,2119)	1:46:A:ASN:H	1:184:A:ILE:HG23	20	0.2
(1,2070)	1:42:A:LYS:H	1:40:A:SER:H	19	0.2
(1,1994)	1:176:A:ARG:H	1:109:A:ARG:HD3	1	0.2
(1,1994)	1:176:A:ARG:H	1:109:A:ARG:HD3	17	0.2
(1,1937)	1:176:A:ARG:H	1:174:A:GLU:HA	4	0.2
(1,1937)	1:176:A:ARG:H	1:174:A:GLU:HA	12	0.2
(1,1937)	1:176:A:ARG:H	1:174:A:GLU:HA	15	0.2
(1,1934)	1:203:A:ILE:HD11	1:206:A:HIS:HB3	3	0.2
(1,1934)	1:203:A:ILE:HD12	1:206:A:HIS:HB3	3	0.2
(1,1934)	1:203:A:ILE:HD13	1:206:A:HIS:HB3	3	0.2
(1,1924)	1:6:A:ILE:HD11	1:5:A:ALA:HA	9	0.2
(1,1924)	1:6:A:ILE:HD12	1:5:A:ALA:HA	9	0.2
(1,1924)	1:6:A:ILE:HD13	1:5:A:ALA:HA	9	0.2
(1,1924)	1:6:A:ILE:HD11	1:5:A:ALA:HA	12	0.2
(1,1924)	1:6:A:ILE:HD12	1:5:A:ALA:HA	12	0.2
(1,1924)	1:6:A:ILE:HD13	1:5:A:ALA:HA	12	0.2
(1,1908)	1:15:A:LEU:H	1:15:A:LEU:HG	5	0.2
(1,1908)	1:15:A:LEU:H	1:15:A:LEU:HG	12	0.2
(1,1908)	1:15:A:LEU:H	1:15:A:LEU:HG	17	0.2
(1,1908)	1:15:A:LEU:H	1:15:A:LEU:HG	19	0.2
(1,1869)	1:65:A:LEU:H	1:64:A:PHE:HZ	10	0.2
(1,1823)	1:207:A:ARG:HA	1:207:A:ARG:HG2	18	0.2
(1,1809)	1:2:A:ASP:HB2	1:5:A:ALA:HB1	6	0.2
(1,1809)	1:2:A:ASP:HB2	1:5:A:ALA:HB2	6	0.2
(1,1809)	1:2:A:ASP:HB2	1:5:A:ALA:HB3	6	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1809)	1:2:A:ASP:HB2	1:5:A:ALA:HB1	15	0.2
(1,1809)	1:2:A:ASP:HB2	1:5:A:ALA:HB2	15	0.2
(1,1809)	1:2:A:ASP:HB2	1:5:A:ALA:HB3	15	0.2
(1,1804)	1:165:A:SER:H	1:55:A:PRO:HD3	4	0.2
(1,1768)	1:128:A:SER:H	1:152:A:GLY:HA2	17	0.2
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD11	11	0.2
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD12	11	0.2
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD13	11	0.2
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD11	11	0.2
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD12	11	0.2
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD13	11	0.2
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD11	11	0.2
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD12	11	0.2
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD13	11	0.2
(1,1620)	1:22:A:SER:H	1:24:A:TRP:HE1	15	0.2
(1,1581)	1:22:A:SER:H	1:21:A:THR:HG21	19	0.2
(1,1581)	1:22:A:SER:H	1:21:A:THR:HG22	19	0.2
(1,1581)	1:22:A:SER:H	1:21:A:THR:HG23	19	0.2
(1,1580)	1:174:A:GLU:H	1:147:A:TYR:HA	8	0.2
(1,1580)	1:174:A:GLU:H	1:147:A:TYR:HA	18	0.2
(1,1315)	1:37:A:SER:H	1:49:A:ARG:H	2	0.2
(1,1315)	1:37:A:SER:H	1:49:A:ARG:H	7	0.2
(1,1295)	1:203:A:ILE:HG21	1:204:A:LYS:HB3	18	0.2
(1,1295)	1:203:A:ILE:HG22	1:204:A:LYS:HB3	18	0.2
(1,1295)	1:203:A:ILE:HG23	1:204:A:LYS:HB3	18	0.2
(1,1295)	1:203:A:ILE:HG21	1:204:A:LYS:HB3	19	0.2
(1,1295)	1:203:A:ILE:HG22	1:204:A:LYS:HB3	19	0.2
(1,1295)	1:203:A:ILE:HG23	1:204:A:LYS:HB3	19	0.2
(1,1272)	1:48:A:TYR:H	1:171:A:VAL:HG21	10	0.2
(1,1272)	1:48:A:TYR:H	1:171:A:VAL:HG22	10	0.2
(1,1272)	1:48:A:TYR:H	1:171:A:VAL:HG23	10	0.2
(1,1259)	1:25:A:LYS:H	1:24:A:TRP:HE1	17	0.2
(1,1252)	1:130:A:LYS:HB3	1:7:A:ALA:HA	8	0.2
(1,1239)	1:109:A:ARG:H	1:144:A:ILE:H	3	0.2
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB1	1	0.2
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB2	1	0.2
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB3	1	0.2
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB1	4	0.2
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB2	4	0.2
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB3	4	0.2
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB1	19	0.2
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB2	19	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB3	19	0.2
(1,1075)	1:12:A:GLN:H	1:118:A:LYS:HE3	16	0.2
(1,1032)	1:204:A:LYS:HA	1:207:A:ARG:HG2	16	0.2
(1,923)	1:196:A:ILE:HG21	1:193:A:VAL:HB	14	0.2
(1,923)	1:196:A:ILE:HG22	1:193:A:VAL:HB	14	0.2
(1,923)	1:196:A:ILE:HG23	1:193:A:VAL:HB	14	0.2
(1,905)	1:38:A:LYS:H	1:37:A:SER:H	3	0.2
(1,905)	1:38:A:LYS:H	1:37:A:SER:H	10	0.2
(1,905)	1:38:A:LYS:H	1:37:A:SER:H	13	0.2
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB1	7	0.2
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB2	7	0.2
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB3	7	0.2
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB1	19	0.2
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB2	19	0.2
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB3	19	0.2
(1,879)	1:121:A:GLU:H	1:119:A:ARG:H	2	0.2
(1,878)	1:180:A:SER:H	1:184:A:ILE:HB	3	0.2
(1,878)	1:180:A:SER:H	1:184:A:ILE:HB	4	0.2
(1,878)	1:180:A:SER:H	1:184:A:ILE:HB	5	0.2
(1,858)	1:101:A:PHE:H	1:102:A:ALA:H	17	0.2
(1,833)	1:60:A:LYS:HE3	1:203:A:ILE:HD11	5	0.2
(1,833)	1:60:A:LYS:HE3	1:203:A:ILE:HD12	5	0.2
(1,833)	1:60:A:LYS:HE3	1:203:A:ILE:HD13	5	0.2
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD11	7	0.2
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD12	7	0.2
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD13	7	0.2
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD11	7	0.2
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD12	7	0.2
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD13	7	0.2
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD11	7	0.2
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD12	7	0.2
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD13	7	0.2
(1,593)	1:84:A:VAL:H	1:86:A:ARG:HG2	9	0.2
(1,593)	1:84:A:VAL:H	1:86:A:ARG:HG2	18	0.2
(1,567)	1:156:A:SER:H	1:166:A:LYS:HA	6	0.2
(1,554)	1:61:A:LEU:H	1:59:A:ALA:HA	6	0.2
(1,539)	1:206:A:HIS:H	1:202:A:GLY:HA3	5	0.2
(1,539)	1:206:A:HIS:H	1:202:A:GLY:HA3	19	0.2
(1,534)	1:71:A:ARG:HD2	1:65:A:LEU:HA	3	0.2
(1,529)	1:28:A:LYS:H	1:35:A:VAL:HB	3	0.2
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD21	2	0.2
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD22	2	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD23	2	0.2
(1,334)	1:71:A:ARG:HG2	1:69:A:GLY:H	1	0.2
(1,273)	1:161:A:ASN:H	1:160:A:GLU:HB2	7	0.2
(1,256)	1:144:A:ILE:H	1:109:A:ARG:HB3	10	0.2
(1,162)	1:167:A:LEU:H	1:168:A:VAL:H	1	0.2
(1,144)	1:202:A:GLY:H	1:200:A:LYS:HB2	7	0.2
(1,19)	1:106:A:ILE:HG21	1:109:A:ARG:HD2	14	0.2
(1,19)	1:106:A:ILE:HG22	1:109:A:ARG:HD2	14	0.2
(1,19)	1:106:A:ILE:HG23	1:109:A:ARG:HD2	14	0.2
(1,4358)	1:71:A:ARG:H	1:74:A:TRP:HD1	11	0.19
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD11	6	0.19
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD12	6	0.19
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD13	6	0.19
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD11	14	0.19
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD12	14	0.19
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD13	14	0.19
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD11	15	0.19
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD12	15	0.19
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD13	15	0.19
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD11	19	0.19
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD12	19	0.19
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD13	19	0.19
(1,4318)	1:119:A:ARG:H	1:119:A:ARG:HD2	12	0.19
(1,4291)	1:91:A:THR:HG21	1:93:A:ILE:HG21	17	0.19
(1,4291)	1:91:A:THR:HG21	1:93:A:ILE:HG22	17	0.19
(1,4291)	1:91:A:THR:HG21	1:93:A:ILE:HG23	17	0.19
(1,4291)	1:91:A:THR:HG22	1:93:A:ILE:HG21	17	0.19
(1,4291)	1:91:A:THR:HG22	1:93:A:ILE:HG22	17	0.19
(1,4291)	1:91:A:THR:HG22	1:93:A:ILE:HG23	17	0.19
(1,4291)	1:91:A:THR:HG23	1:93:A:ILE:HG21	17	0.19
(1,4291)	1:91:A:THR:HG23	1:93:A:ILE:HG22	17	0.19
(1,4291)	1:91:A:THR:HG23	1:93:A:ILE:HG23	17	0.19
(1,4259)	1:140:A:SER:H	1:141:A:SER:HA	8	0.19
(1,4259)	1:140:A:SER:H	1:141:A:SER:HA	16	0.19
(1,4246)	1:144:A:ILE:H	1:110:A:ASP:HA	1	0.19
(1,4246)	1:144:A:ILE:H	1:110:A:ASP:HA	12	0.19
(1,4246)	1:144:A:ILE:H	1:110:A:ASP:HA	17	0.19
(1,4228)	1:170:A:PHE:H	1:171:A:VAL:HG11	7	0.19
(1,4228)	1:170:A:PHE:H	1:171:A:VAL:HG12	7	0.19
(1,4228)	1:170:A:PHE:H	1:171:A:VAL:HG13	7	0.19
(1,4193)	1:24:A:TRP:HZ3	1:49:A:ARG:H	12	0.19
(1,4166)	1:99:A:GLN:HG3	1:97:A:ILE:HG21	9	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4166)	1:99:A:GLN:HG3	1:97:A:ILE:HG22	9	0.19
(1,4166)	1:99:A:GLN:HG3	1:97:A:ILE:HG23	9	0.19
(1,4139)	1:18:A:ASN:H	1:17:A:TYR:HB3	1	0.19
(1,4139)	1:18:A:ASN:H	1:17:A:TYR:HB3	5	0.19
(1,4133)	1:28:A:LYS:H	1:37:A:SER:H	14	0.19
(1,4106)	1:96:A:THR:H	1:81:A:TYR:HA	3	0.19
(1,4106)	1:96:A:THR:H	1:81:A:TYR:HA	12	0.19
(1,4106)	1:96:A:THR:H	1:81:A:TYR:HA	17	0.19
(1,4095)	1:162:A:PRO:HA	1:58:A:PRO:HG2	17	0.19
(1,4070)	1:42:A:LYS:HD3	1:42:A:LYS:HB3	19	0.19
(1,4057)	1:145:A:ARG:H	1:143:A:TYR:HA	15	0.19
(1,4003)	1:24:A:TRP:HH2	1:49:A:ARG:HG2	3	0.19
(1,3918)	1:172:A:GLN:H	1:173:A:THR:HG21	7	0.19
(1,3918)	1:172:A:GLN:H	1:173:A:THR:HG22	7	0.19
(1,3918)	1:172:A:GLN:H	1:173:A:THR:HG23	7	0.19
(1,3888)	1:97:A:ILE:HG21	1:99:A:GLN:HG3	9	0.19
(1,3888)	1:97:A:ILE:HG22	1:99:A:GLN:HG3	9	0.19
(1,3888)	1:97:A:ILE:HG23	1:99:A:GLN:HG3	9	0.19
(1,3882)	1:112:A:ILE:HG21	1:132:A:VAL:HB	12	0.19
(1,3882)	1:112:A:ILE:HG22	1:132:A:VAL:HB	12	0.19
(1,3882)	1:112:A:ILE:HG23	1:132:A:VAL:HB	12	0.19
(1,3862)	1:109:A:ARG:HG2	1:144:A:ILE:HG12	12	0.19
(1,3749)	1:8:A:GLN:H	1:11:A:ALA:H	4	0.19
(1,3749)	1:8:A:GLN:H	1:11:A:ALA:H	16	0.19
(1,3749)	1:8:A:GLN:H	1:11:A:ALA:H	17	0.19
(1,3732)	1:153:A:PHE:H	1:14:A:VAL:HB	10	0.19
(1,3732)	1:153:A:PHE:H	1:14:A:VAL:HB	12	0.19
(1,3701)	1:180:A:SER:H	1:179:A:LEU:H	1	0.19
(1,3701)	1:180:A:SER:H	1:179:A:LEU:H	11	0.19
(1,3701)	1:180:A:SER:H	1:179:A:LEU:H	16	0.19
(1,3694)	1:80:A:VAL:HG21	1:79:A:GLN:HG3	11	0.19
(1,3694)	1:80:A:VAL:HG22	1:79:A:GLN:HG3	11	0.19
(1,3694)	1:80:A:VAL:HG23	1:79:A:GLN:HG3	11	0.19
(1,3694)	1:80:A:VAL:HG21	1:79:A:GLN:HG3	18	0.19
(1,3694)	1:80:A:VAL:HG22	1:79:A:GLN:HG3	18	0.19
(1,3694)	1:80:A:VAL:HG23	1:79:A:GLN:HG3	18	0.19
(1,3683)	1:50:A:VAL:H	1:168:A:VAL:HA	10	0.19
(1,3673)	1:65:A:LEU:H	1:66:A:TYR:HA	12	0.19
(1,3623)	1:13:A:GLU:H	1:13:A:GLU:HG2	4	0.19
(1,3599)	1:131:A:SER:H	1:132:A:VAL:HA	5	0.19
(1,3599)	1:131:A:SER:H	1:132:A:VAL:HA	16	0.19
(1,3598)	1:24:A:TRP:HH2	1:36:A:SER:HB3	10	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3598)	1:24:A:TRP:HH2	1:36:A:SER:HB3	14	0.19
(1,3589)	1:186:A:LYS:H	1:106:A:ILE:HD11	3	0.19
(1,3589)	1:186:A:LYS:H	1:106:A:ILE:HD12	3	0.19
(1,3589)	1:186:A:LYS:H	1:106:A:ILE:HD13	3	0.19
(1,3589)	1:186:A:LYS:H	1:106:A:ILE:HD11	11	0.19
(1,3589)	1:186:A:LYS:H	1:106:A:ILE:HD12	11	0.19
(1,3589)	1:186:A:LYS:H	1:106:A:ILE:HD13	11	0.19
(1,3566)	1:134:A:PHE:HB3	1:132:A:VAL:HB	14	0.19
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB1	18	0.19
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB2	18	0.19
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB3	18	0.19
(1,3537)	1:28:A:LYS:H	1:28:A:LYS:HD2	18	0.19
(1,3525)	1:68:A:THR:HG21	1:69:A:GLY:HA3	1	0.19
(1,3525)	1:68:A:THR:HG22	1:69:A:GLY:HA3	1	0.19
(1,3525)	1:68:A:THR:HG23	1:69:A:GLY:HA3	1	0.19
(1,3522)	1:112:A:ILE:H	1:96:A:THR:HB	5	0.19
(1,3522)	1:112:A:ILE:H	1:96:A:THR:HB	16	0.19
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD11	8	0.19
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD12	8	0.19
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD13	8	0.19
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD11	9	0.19
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD12	9	0.19
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD13	9	0.19
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG21	8	0.19
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG22	8	0.19
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG23	8	0.19
(1,3440)	1:56:A:GLU:H	1:165:A:SER:HA	10	0.19
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG21	10	0.19
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG22	10	0.19
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG23	10	0.19
(1,3420)	1:95:A:HIS:H	1:112:A:ILE:HG21	2	0.19
(1,3420)	1:95:A:HIS:H	1:112:A:ILE:HG22	2	0.19
(1,3420)	1:95:A:HIS:H	1:112:A:ILE:HG23	2	0.19
(1,3358)	1:15:A:LEU:HD11	1:12:A:GLN:H	6	0.19
(1,3358)	1:15:A:LEU:HD12	1:12:A:GLN:H	6	0.19
(1,3358)	1:15:A:LEU:HD13	1:12:A:GLN:H	6	0.19
(1,3250)	1:71:A:ARG:H	1:68:A:THR:HA	15	0.19
(1,3250)	1:71:A:ARG:H	1:68:A:THR:HA	17	0.19
(1,3228)	1:187:A:THR:HG21	1:179:A:LEU:HD11	4	0.19
(1,3228)	1:187:A:THR:HG21	1:179:A:LEU:HD12	4	0.19
(1,3228)	1:187:A:THR:HG21	1:179:A:LEU:HD13	4	0.19
(1,3228)	1:187:A:THR:HG22	1:179:A:LEU:HD11	4	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3228)	1:187:A:THR:HG22	1:179:A:LEU:HD12	4	0.19
(1,3228)	1:187:A:THR:HG22	1:179:A:LEU:HD13	4	0.19
(1,3228)	1:187:A:THR:HG23	1:179:A:LEU:HD11	4	0.19
(1,3228)	1:187:A:THR:HG23	1:179:A:LEU:HD12	4	0.19
(1,3228)	1:187:A:THR:HG23	1:179:A:LEU:HD13	4	0.19
(1,3091)	1:124:A:MET:H	1:119:A:ARG:HA	20	0.19
(1,3045)	1:136:A:GLU:H	1:137:A:TYR:HB2	5	0.19
(1,2998)	1:28:A:LYS:H	1:26:A:VAL:HB	4	0.19
(1,2988)	1:137:A:TYR:H	1:135:A:PRO:HB2	3	0.19
(1,2966)	1:17:A:TYR:H	1:15:A:LEU:HG	5	0.19
(1,2966)	1:17:A:TYR:H	1:15:A:LEU:HG	8	0.19
(1,2897)	1:203:A:ILE:HG21	1:206:A:HIS:HB3	13	0.19
(1,2897)	1:203:A:ILE:HG22	1:206:A:HIS:HB3	13	0.19
(1,2897)	1:203:A:ILE:HG23	1:206:A:HIS:HB3	13	0.19
(1,2896)	1:158:A:MET:H	1:158:A:MET:HG3	18	0.19
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG21	7	0.19
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG22	7	0.19
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG23	7	0.19
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG21	7	0.19
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG22	7	0.19
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG23	7	0.19
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG21	7	0.19
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG22	7	0.19
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG23	7	0.19
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG21	14	0.19
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG22	14	0.19
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG23	14	0.19
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG21	14	0.19
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG22	14	0.19
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG23	14	0.19
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG21	14	0.19
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG22	14	0.19
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG23	14	0.19
(1,2770)	1:98:A:THR:H	1:109:A:ARG:HB2	4	0.19
(1,2739)	1:211:A:ARG:HA	1:214:A:PHE:HA	18	0.19
(1,2704)	1:162:A:PRO:HA	1:162:A:PRO:HD3	11	0.19
(1,2704)	1:162:A:PRO:HA	1:162:A:PRO:HD3	13	0.19
(1,2698)	1:132:A:VAL:H	1:130:A:LYS:H	18	0.19
(1,2689)	1:105:A:SER:HB3	1:102:A:ALA:HB1	2	0.19
(1,2689)	1:105:A:SER:HB3	1:102:A:ALA:HB2	2	0.19
(1,2689)	1:105:A:SER:HB3	1:102:A:ALA:HB3	2	0.19
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB1	19	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB2	19	0.19
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB3	19	0.19
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB1	20	0.19
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB2	20	0.19
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB3	20	0.19
(1,2650)	1:168:A:VAL:H	1:154:A:VAL:HB	15	0.19
(1,2650)	1:168:A:VAL:H	1:154:A:VAL:HB	17	0.19
(1,2649)	1:54:A:ILE:HG13	1:200:A:LYS:H	1	0.19
(1,2637)	1:187:A:THR:HG21	1:175:A:MET:HG3	15	0.19
(1,2637)	1:187:A:THR:HG22	1:175:A:MET:HG3	15	0.19
(1,2637)	1:187:A:THR:HG23	1:175:A:MET:HG3	15	0.19
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD11	3	0.19
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD12	3	0.19
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD13	3	0.19
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD11	14	0.19
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD12	14	0.19
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD13	14	0.19
(1,2545)	1:84:A:VAL:H	1:95:A:HIS:HA	8	0.19
(1,2525)	1:33:A:ILE:HD11	1:50:A:VAL:HG11	19	0.19
(1,2525)	1:33:A:ILE:HD11	1:50:A:VAL:HG12	19	0.19
(1,2525)	1:33:A:ILE:HD11	1:50:A:VAL:HG13	19	0.19
(1,2525)	1:33:A:ILE:HD12	1:50:A:VAL:HG11	19	0.19
(1,2525)	1:33:A:ILE:HD12	1:50:A:VAL:HG12	19	0.19
(1,2525)	1:33:A:ILE:HD12	1:50:A:VAL:HG13	19	0.19
(1,2525)	1:33:A:ILE:HD13	1:50:A:VAL:HG11	19	0.19
(1,2525)	1:33:A:ILE:HD13	1:50:A:VAL:HG12	19	0.19
(1,2525)	1:33:A:ILE:HD13	1:50:A:VAL:HG13	19	0.19
(1,2520)	1:27:A:VAL:H	1:28:A:LYS:HA	11	0.19
(1,2520)	1:27:A:VAL:H	1:28:A:LYS:HA	17	0.19
(1,2516)	1:137:A:TYR:H	1:112:A:ILE:HD11	16	0.19
(1,2516)	1:137:A:TYR:H	1:112:A:ILE:HD12	16	0.19
(1,2516)	1:137:A:TYR:H	1:112:A:ILE:HD13	16	0.19
(1,2471)	1:154:A:VAL:HG11	1:124:A:MET:HB3	18	0.19
(1,2471)	1:154:A:VAL:HG12	1:124:A:MET:HB3	18	0.19
(1,2471)	1:154:A:VAL:HG13	1:124:A:MET:HB3	18	0.19
(1,2439)	1:202:A:GLY:H	1:198:A:ASN:HB3	4	0.19
(1,2415)	1:134:A:PHE:HZ	1:112:A:ILE:HD11	4	0.19
(1,2415)	1:134:A:PHE:HZ	1:112:A:ILE:HD12	4	0.19
(1,2415)	1:134:A:PHE:HZ	1:112:A:ILE:HD13	4	0.19
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD21	17	0.19
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD22	17	0.19
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD23	17	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD21	19	0.19
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD22	19	0.19
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD23	19	0.19
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB1	4	0.19
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB2	4	0.19
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB3	4	0.19
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB1	5	0.19
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB2	5	0.19
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB3	5	0.19
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB1	13	0.19
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB2	13	0.19
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB3	13	0.19
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB1	15	0.19
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB2	15	0.19
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB3	15	0.19
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB1	19	0.19
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB2	19	0.19
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB3	19	0.19
(1,2295)	1:186:A:LYS:H	1:186:A:LYS:HB2	2	0.19
(1,2294)	1:153:A:PHE:H	1:154:A:VAL:HB	4	0.19
(1,2294)	1:153:A:PHE:H	1:154:A:VAL:HB	10	0.19
(1,2294)	1:153:A:PHE:H	1:154:A:VAL:HB	15	0.19
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG11	14	0.19
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG12	14	0.19
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG13	14	0.19
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG11	14	0.19
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG12	14	0.19
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG13	14	0.19
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG11	14	0.19
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG12	14	0.19
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG13	14	0.19
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG11	20	0.19
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG12	20	0.19
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG13	20	0.19
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG11	20	0.19
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG12	20	0.19
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG13	20	0.19
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG11	20	0.19
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG12	20	0.19
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG13	20	0.19
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD11	13	0.19
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD12	13	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD13	13	0.19
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD11	10	0.19
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD12	10	0.19
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD13	10	0.19
(1,2030)	1:28:A:LYS:H	1:34:A:THR:HA	8	0.19
(1,1924)	1:6:A:ILE:HD11	1:5:A:ALA:HA	18	0.19
(1,1924)	1:6:A:ILE:HD12	1:5:A:ALA:HA	18	0.19
(1,1924)	1:6:A:ILE:HD13	1:5:A:ALA:HA	18	0.19
(1,1908)	1:15:A:LEU:H	1:15:A:LEU:HG	6	0.19
(1,1908)	1:15:A:LEU:H	1:15:A:LEU:HG	7	0.19
(1,1908)	1:15:A:LEU:H	1:15:A:LEU:HG	18	0.19
(1,1869)	1:65:A:LEU:H	1:64:A:PHE:HZ	2	0.19
(1,1869)	1:65:A:LEU:H	1:64:A:PHE:HZ	13	0.19
(1,1869)	1:65:A:LEU:H	1:64:A:PHE:HZ	20	0.19
(1,1864)	1:24:A:TRP:H	1:24:A:TRP:HE1	16	0.19
(1,1856)	1:129:A:SER:HB3	1:114:A:LEU:H	19	0.19
(1,1826)	1:184:A:ILE:HD11	1:183:A:ILE:HG13	7	0.19
(1,1826)	1:184:A:ILE:HD12	1:183:A:ILE:HG13	7	0.19
(1,1826)	1:184:A:ILE:HD13	1:183:A:ILE:HG13	7	0.19
(1,1804)	1:165:A:SER:H	1:55:A:PRO:HD3	10	0.19
(1,1804)	1:165:A:SER:H	1:55:A:PRO:HD3	14	0.19
(1,1804)	1:165:A:SER:H	1:55:A:PRO:HD3	18	0.19
(1,1804)	1:165:A:SER:H	1:55:A:PRO:HD3	19	0.19
(1,1768)	1:128:A:SER:H	1:152:A:GLY:HA2	11	0.19
(1,1751)	1:99:A:GLN:H	1:77:A:SER:HB2	11	0.19
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD11	3	0.19
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD12	3	0.19
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD13	3	0.19
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD11	3	0.19
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD12	3	0.19
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD13	3	0.19
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD11	3	0.19
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD12	3	0.19
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD13	3	0.19
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD11	18	0.19
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD12	18	0.19
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD13	18	0.19
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD11	18	0.19
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD12	18	0.19
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD13	18	0.19
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD11	18	0.19
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD12	18	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD13	18	0.19
(1,1716)	1:134:A:PHE:H	1:112:A:ILE:HB	10	0.19
(1,1716)	1:134:A:PHE:H	1:112:A:ILE:HB	11	0.19
(1,1716)	1:134:A:PHE:H	1:112:A:ILE:HB	15	0.19
(1,1683)	1:119:A:ARG:H	1:119:A:ARG:HD2	2	0.19
(1,1683)	1:119:A:ARG:H	1:119:A:ARG:HD2	8	0.19
(1,1599)	1:173:A:THR:H	1:172:A:GLN:HG3	6	0.19
(1,1599)	1:173:A:THR:H	1:172:A:GLN:HG3	11	0.19
(1,1481)	1:132:A:VAL:HG11	1:130:A:LYS:H	10	0.19
(1,1481)	1:132:A:VAL:HG12	1:130:A:LYS:H	10	0.19
(1,1481)	1:132:A:VAL:HG13	1:130:A:LYS:H	10	0.19
(1,1353)	1:15:A:LEU:H	1:14:A:VAL:HG21	17	0.19
(1,1353)	1:15:A:LEU:H	1:14:A:VAL:HG22	17	0.19
(1,1353)	1:15:A:LEU:H	1:14:A:VAL:HG23	17	0.19
(1,1315)	1:37:A:SER:H	1:49:A:ARG:H	20	0.19
(1,1295)	1:203:A:ILE:HG21	1:204:A:LYS:HB3	6	0.19
(1,1295)	1:203:A:ILE:HG22	1:204:A:LYS:HB3	6	0.19
(1,1295)	1:203:A:ILE:HG23	1:204:A:LYS:HB3	6	0.19
(1,1259)	1:25:A:LYS:H	1:24:A:TRP:HE1	9	0.19
(1,1259)	1:25:A:LYS:H	1:24:A:TRP:HE1	11	0.19
(1,1253)	1:63:A:ASP:H	1:62:A:SER:HB3	9	0.19
(1,1239)	1:109:A:ARG:H	1:144:A:ILE:H	16	0.19
(1,1239)	1:109:A:ARG:H	1:144:A:ILE:H	18	0.19
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB1	2	0.19
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB2	2	0.19
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB3	2	0.19
(1,1166)	1:105:A:SER:HB2	1:180:A:SER:H	20	0.19
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD11	5	0.19
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD12	5	0.19
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD13	5	0.19
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD11	11	0.19
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD12	11	0.19
(1,1001)	1:196:A:ILE:H	1:196:A:ILE:HD13	11	0.19
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB1	3	0.19
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB2	3	0.19
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB3	3	0.19
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB1	20	0.19
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB2	20	0.19
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB3	20	0.19
(1,955)	1:196:A:ILE:HD11	1:167:A:LEU:HG	4	0.19
(1,955)	1:196:A:ILE:HD12	1:167:A:LEU:HG	4	0.19
(1,955)	1:196:A:ILE:HD13	1:167:A:LEU:HG	4	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,955)	1:196:A:ILE:HD11	1:167:A:LEU:HG	5	0.19
(1,955)	1:196:A:ILE:HD12	1:167:A:LEU:HG	5	0.19
(1,955)	1:196:A:ILE:HD13	1:167:A:LEU:HG	5	0.19
(1,955)	1:196:A:ILE:HD11	1:167:A:LEU:HG	7	0.19
(1,955)	1:196:A:ILE:HD12	1:167:A:LEU:HG	7	0.19
(1,955)	1:196:A:ILE:HD13	1:167:A:LEU:HG	7	0.19
(1,955)	1:196:A:ILE:HD11	1:167:A:LEU:HG	16	0.19
(1,955)	1:196:A:ILE:HD12	1:167:A:LEU:HG	16	0.19
(1,955)	1:196:A:ILE:HD13	1:167:A:LEU:HG	16	0.19
(1,952)	1:145:A:ARG:H	1:144:A:ILE:HD11	17	0.19
(1,952)	1:145:A:ARG:H	1:144:A:ILE:HD12	17	0.19
(1,952)	1:145:A:ARG:H	1:144:A:ILE:HD13	17	0.19
(1,934)	1:184:A:ILE:H	1:187:A:THR:HG21	6	0.19
(1,934)	1:184:A:ILE:H	1:187:A:THR:HG22	6	0.19
(1,934)	1:184:A:ILE:H	1:187:A:THR:HG23	6	0.19
(1,923)	1:196:A:ILE:HG21	1:193:A:VAL:HB	11	0.19
(1,923)	1:196:A:ILE:HG22	1:193:A:VAL:HB	11	0.19
(1,923)	1:196:A:ILE:HG23	1:193:A:VAL:HB	11	0.19
(1,905)	1:38:A:LYS:H	1:37:A:SER:H	5	0.19
(1,905)	1:38:A:LYS:H	1:37:A:SER:H	16	0.19
(1,905)	1:38:A:LYS:H	1:37:A:SER:H	17	0.19
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB1	1	0.19
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB2	1	0.19
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB3	1	0.19
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB1	9	0.19
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB2	9	0.19
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB3	9	0.19
(1,895)	1:71:A:ARG:H	1:69:A:GLY:HA3	13	0.19
(1,878)	1:180:A:SER:H	1:184:A:ILE:HB	12	0.19
(1,858)	1:101:A:PHE:H	1:102:A:ALA:H	10	0.19
(1,857)	1:185:A:GLU:H	1:187:A:THR:HG21	4	0.19
(1,857)	1:185:A:GLU:H	1:187:A:THR:HG22	4	0.19
(1,857)	1:185:A:GLU:H	1:187:A:THR:HG23	4	0.19
(1,857)	1:185:A:GLU:H	1:187:A:THR:HG21	11	0.19
(1,857)	1:185:A:GLU:H	1:187:A:THR:HG22	11	0.19
(1,857)	1:185:A:GLU:H	1:187:A:THR:HG23	11	0.19
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG11	3	0.19
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG12	3	0.19
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG13	3	0.19
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG11	18	0.19
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG12	18	0.19
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG13	18	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,812)	1:205:A:ALA:H	1:208:A:THR:H	17	0.19
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG11	4	0.19
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG12	4	0.19
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG13	4	0.19
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG11	8	0.19
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG12	8	0.19
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG13	8	0.19
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG11	17	0.19
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG12	17	0.19
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG13	17	0.19
(1,792)	1:21:A:THR:H	1:22:A:SER:HB2	11	0.19
(1,756)	1:26:A:VAL:HG21	1:37:A:SER:H	3	0.19
(1,756)	1:26:A:VAL:HG22	1:37:A:SER:H	3	0.19
(1,756)	1:26:A:VAL:HG23	1:37:A:SER:H	3	0.19
(1,756)	1:26:A:VAL:HG21	1:37:A:SER:H	14	0.19
(1,756)	1:26:A:VAL:HG22	1:37:A:SER:H	14	0.19
(1,756)	1:26:A:VAL:HG23	1:37:A:SER:H	14	0.19
(1,710)	1:150:A:PRO:HB2	1:14:A:VAL:HG21	12	0.19
(1,710)	1:150:A:PRO:HB2	1:14:A:VAL:HG22	12	0.19
(1,710)	1:150:A:PRO:HB2	1:14:A:VAL:HG23	12	0.19
(1,665)	1:167:A:LEU:H	1:54:A:ILE:HB	4	0.19
(1,665)	1:167:A:LEU:H	1:54:A:ILE:HB	18	0.19
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD11	1	0.19
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD12	1	0.19
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD13	1	0.19
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD11	1	0.19
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD12	1	0.19
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD13	1	0.19
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD11	1	0.19
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD12	1	0.19
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD13	1	0.19
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD11	16	0.19
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD12	16	0.19
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD13	16	0.19
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD11	16	0.19
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD12	16	0.19
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD13	16	0.19
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD11	16	0.19
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD12	16	0.19
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD13	16	0.19
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD11	19	0.19
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD12	19	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD13	19	0.19
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD11	19	0.19
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD12	19	0.19
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD13	19	0.19
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD11	19	0.19
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD12	19	0.19
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD13	19	0.19
(1,647)	1:37:A:SER:H	1:25:A:LYS:HB2	12	0.19
(1,647)	1:37:A:SER:H	1:25:A:LYS:HB2	15	0.19
(1,647)	1:37:A:SER:H	1:25:A:LYS:HB2	18	0.19
(1,593)	1:84:A:VAL:H	1:86:A:ARG:HG2	3	0.19
(1,593)	1:84:A:VAL:H	1:86:A:ARG:HG2	19	0.19
(1,567)	1:156:A:SER:H	1:166:A:LYS:HA	1	0.19
(1,567)	1:156:A:SER:H	1:166:A:LYS:HA	3	0.19
(1,567)	1:156:A:SER:H	1:166:A:LYS:HA	5	0.19
(1,558)	1:34:A:THR:HG21	1:26:A:VAL:H	2	0.19
(1,558)	1:34:A:THR:HG22	1:26:A:VAL:H	2	0.19
(1,558)	1:34:A:THR:HG23	1:26:A:VAL:H	2	0.19
(1,554)	1:61:A:LEU:H	1:59:A:ALA:HA	5	0.19
(1,554)	1:61:A:LEU:H	1:59:A:ALA:HA	15	0.19
(1,539)	1:206:A:HIS:H	1:202:A:GLY:HA3	11	0.19
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD11	1	0.19
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD12	1	0.19
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD13	1	0.19
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD11	7	0.19
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD12	7	0.19
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD13	7	0.19
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD11	10	0.19
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD12	10	0.19
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD13	10	0.19
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD11	14	0.19
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD12	14	0.19
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD13	14	0.19
(1,475)	1:201:A:ASP:HA	1:204:A:LYS:HD2	11	0.19
(1,430)	1:60:A:LYS:H	1:63:A:ASP:HB2	20	0.19
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD21	4	0.19
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD22	4	0.19
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD23	4	0.19
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD21	9	0.19
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD22	9	0.19
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD23	9	0.19
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD21	11	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD22	11	0.19
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD23	11	0.19
(1,327)	1:171:A:VAL:H	1:49:A:ARG:H	5	0.19
(1,317)	1:160:A:GLU:H	1:160:A:GLU:HG3	4	0.19
(1,303)	1:170:A:PHE:HA	1:50:A:VAL:HG11	20	0.19
(1,303)	1:170:A:PHE:HA	1:50:A:VAL:HG12	20	0.19
(1,303)	1:170:A:PHE:HA	1:50:A:VAL:HG13	20	0.19
(1,301)	1:6:A:ILE:HA	1:9:A:GLN:HB3	6	0.19
(1,299)	1:191:A:ASN:HB3	1:171:A:VAL:HG11	11	0.19
(1,299)	1:191:A:ASN:HB3	1:171:A:VAL:HG12	11	0.19
(1,299)	1:191:A:ASN:HB3	1:171:A:VAL:HG13	11	0.19
(1,273)	1:161:A:ASN:H	1:160:A:GLU:HB2	3	0.19
(1,273)	1:161:A:ASN:H	1:160:A:GLU:HB2	4	0.19
(1,273)	1:161:A:ASN:H	1:160:A:GLU:HB2	8	0.19
(1,273)	1:161:A:ASN:H	1:160:A:GLU:HB2	10	0.19
(1,273)	1:161:A:ASN:H	1:160:A:GLU:HB2	19	0.19
(1,199)	1:10:A:THR:HG21	1:8:A:GLN:H	6	0.19
(1,199)	1:10:A:THR:HG22	1:8:A:GLN:H	6	0.19
(1,199)	1:10:A:THR:HG23	1:8:A:GLN:H	6	0.19
(1,162)	1:167:A:LEU:H	1:168:A:VAL:H	7	0.19
(1,162)	1:167:A:LEU:H	1:168:A:VAL:H	9	0.19
(1,162)	1:167:A:LEU:H	1:168:A:VAL:H	15	0.19
(1,162)	1:167:A:LEU:H	1:168:A:VAL:H	20	0.19
(1,144)	1:202:A:GLY:H	1:200:A:LYS:HB2	11	0.19
(1,144)	1:202:A:GLY:H	1:200:A:LYS:HB2	13	0.19
(1,102)	1:73:A:THR:HB	1:72:A:ILE:HG13	10	0.19
(1,99)	1:7:A:ALA:HB1	1:6:A:ILE:HB	19	0.19
(1,99)	1:7:A:ALA:HB2	1:6:A:ILE:HB	19	0.19
(1,99)	1:7:A:ALA:HB3	1:6:A:ILE:HB	19	0.19
(1,44)	1:136:A:GLU:H	1:137:A:TYR:HB3	3	0.19
(1,42)	1:46:A:ASN:HB2	1:45:A:GLY:H	9	0.19
(1,4372)	1:206:A:HIS:H	1:203:A:ILE:H	6	0.18
(1,4362)	1:184:A:ILE:HG21	1:185:A:GLU:HG3	9	0.18
(1,4362)	1:184:A:ILE:HG22	1:185:A:GLU:HG3	9	0.18
(1,4362)	1:184:A:ILE:HG23	1:185:A:GLU:HG3	9	0.18
(1,4359)	1:72:A:ILE:HA	1:76:A:LYS:H	8	0.18
(1,4358)	1:71:A:ARG:H	1:74:A:TRP:HD1	2	0.18
(1,4325)	1:203:A:ILE:HG21	1:61:A:LEU:H	8	0.18
(1,4325)	1:203:A:ILE:HG22	1:61:A:LEU:H	8	0.18
(1,4325)	1:203:A:ILE:HG23	1:61:A:LEU:H	8	0.18
(1,4259)	1:140:A:SER:H	1:141:A:SER:HA	20	0.18
(1,4245)	1:3:A:PHE:H	1:5:A:ALA:HB1	3	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4245)	1:3:A:PHE:H	1:5:A:ALA:HB2	3	0.18
(1,4245)	1:3:A:PHE:H	1:5:A:ALA:HB3	3	0.18
(1,4176)	1:34:A:THR:HG21	1:33:A:ILE:HA	1	0.18
(1,4176)	1:34:A:THR:HG22	1:33:A:ILE:HA	1	0.18
(1,4176)	1:34:A:THR:HG23	1:33:A:ILE:HA	1	0.18
(1,4139)	1:18:A:ASN:H	1:17:A:TYR:HB3	15	0.18
(1,4087)	1:207:A:ARG:H	1:204:A:LYS:HB3	16	0.18
(1,4087)	1:207:A:ARG:H	1:204:A:LYS:HB3	17	0.18
(1,4074)	1:186:A:LYS:H	1:185:A:GLU:HG3	5	0.18
(1,4070)	1:42:A:LYS:HD3	1:42:A:LYS:HB3	9	0.18
(1,4061)	1:179:A:LEU:H	1:179:A:LEU:HD21	14	0.18
(1,4061)	1:179:A:LEU:H	1:179:A:LEU:HD22	14	0.18
(1,4061)	1:179:A:LEU:H	1:179:A:LEU:HD23	14	0.18
(1,4057)	1:145:A:ARG:H	1:143:A:TYR:HA	9	0.18
(1,4046)	1:183:A:ILE:H	1:184:A:ILE:HB	15	0.18
(1,4046)	1:183:A:ILE:H	1:184:A:ILE:HB	19	0.18
(1,3975)	1:208:A:THR:H	1:204:A:LYS:HB3	11	0.18
(1,3872)	1:203:A:ILE:H	1:61:A:LEU:HD21	14	0.18
(1,3872)	1:203:A:ILE:H	1:61:A:LEU:HD22	14	0.18
(1,3872)	1:203:A:ILE:H	1:61:A:LEU:HD23	14	0.18
(1,3793)	1:137:A:TYR:H	1:134:A:PHE:HZ	13	0.18
(1,3793)	1:137:A:TYR:H	1:134:A:PHE:HZ	14	0.18
(1,3793)	1:137:A:TYR:H	1:134:A:PHE:HZ	18	0.18
(1,3749)	1:8:A:GLN:H	1:11:A:ALA:H	1	0.18
(1,3749)	1:8:A:GLN:H	1:11:A:ALA:H	3	0.18
(1,3646)	1:54:A:ILE:HD11	1:203:A:ILE:HG21	7	0.18
(1,3646)	1:54:A:ILE:HD11	1:203:A:ILE:HG22	7	0.18
(1,3646)	1:54:A:ILE:HD11	1:203:A:ILE:HG23	7	0.18
(1,3646)	1:54:A:ILE:HD12	1:203:A:ILE:HG21	7	0.18
(1,3646)	1:54:A:ILE:HD12	1:203:A:ILE:HG22	7	0.18
(1,3646)	1:54:A:ILE:HD12	1:203:A:ILE:HG23	7	0.18
(1,3646)	1:54:A:ILE:HD13	1:203:A:ILE:HG21	7	0.18
(1,3646)	1:54:A:ILE:HD13	1:203:A:ILE:HG22	7	0.18
(1,3646)	1:54:A:ILE:HD13	1:203:A:ILE:HG23	7	0.18
(1,3603)	1:121:A:GLU:H	1:124:A:MET:H	2	0.18
(1,3600)	1:82:A:ASN:H	1:83:A:MET:HB2	20	0.18
(1,3599)	1:131:A:SER:H	1:132:A:VAL:HA	6	0.18
(1,3599)	1:131:A:SER:H	1:132:A:VAL:HA	9	0.18
(1,3599)	1:131:A:SER:H	1:132:A:VAL:HA	15	0.18
(1,3573)	1:184:A:ILE:H	1:187:A:THR:H	18	0.18
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB1	5	0.18
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB2	5	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB3	5	0.18
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB1	13	0.18
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB2	13	0.18
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB3	13	0.18
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD11	7	0.18
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD12	7	0.18
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD13	7	0.18
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG21	7	0.18
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG22	7	0.18
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG23	7	0.18
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG21	20	0.18
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG22	20	0.18
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG23	20	0.18
(1,3487)	1:184:A:ILE:H	1:185:A:GLU:HG3	3	0.18
(1,3486)	1:36:A:SER:HA	1:24:A:TRP:HA	1	0.18
(1,3486)	1:36:A:SER:HA	1:24:A:TRP:HA	18	0.18
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG21	3	0.18
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG22	3	0.18
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG23	3	0.18
(1,3420)	1:95:A:HIS:H	1:112:A:ILE:HG21	18	0.18
(1,3420)	1:95:A:HIS:H	1:112:A:ILE:HG22	18	0.18
(1,3420)	1:95:A:HIS:H	1:112:A:ILE:HG23	18	0.18
(1,3419)	1:203:A:ILE:HG21	1:207:A:ARG:H	4	0.18
(1,3419)	1:203:A:ILE:HG22	1:207:A:ARG:H	4	0.18
(1,3419)	1:203:A:ILE:HG23	1:207:A:ARG:H	4	0.18
(1,3360)	1:116:A:TYR:H	1:114:A:LEU:HG	2	0.18
(1,3358)	1:15:A:LEU:HD11	1:12:A:GLN:H	9	0.18
(1,3358)	1:15:A:LEU:HD12	1:12:A:GLN:H	9	0.18
(1,3358)	1:15:A:LEU:HD13	1:12:A:GLN:H	9	0.18
(1,3358)	1:15:A:LEU:HD11	1:12:A:GLN:H	17	0.18
(1,3358)	1:15:A:LEU:HD12	1:12:A:GLN:H	17	0.18
(1,3358)	1:15:A:LEU:HD13	1:12:A:GLN:H	17	0.18
(1,3358)	1:15:A:LEU:HD11	1:12:A:GLN:H	20	0.18
(1,3358)	1:15:A:LEU:HD12	1:12:A:GLN:H	20	0.18
(1,3358)	1:15:A:LEU:HD13	1:12:A:GLN:H	20	0.18
(1,3260)	1:201:A:ASP:H	1:199:A:ALA:HA	17	0.18
(1,3250)	1:71:A:ARG:H	1:68:A:THR:HA	2	0.18
(1,3196)	1:36:A:SER:HA	1:24:A:TRP:HE1	15	0.18
(1,3096)	1:61:A:LEU:HG	1:57:A:SER:HA	6	0.18
(1,3096)	1:61:A:LEU:HG	1:57:A:SER:HA	19	0.18
(1,3091)	1:124:A:MET:H	1:119:A:ARG:HA	8	0.18
(1,3091)	1:124:A:MET:H	1:119:A:ARG:HA	10	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3082)	1:92:A:PHE:H	1:87:A:ILE:HG13	5	0.18
(1,3027)	1:26:A:VAL:H	1:26:A:VAL:HG21	7	0.18
(1,3027)	1:26:A:VAL:H	1:26:A:VAL:HG22	7	0.18
(1,3027)	1:26:A:VAL:H	1:26:A:VAL:HG23	7	0.18
(1,3027)	1:26:A:VAL:H	1:26:A:VAL:HG21	12	0.18
(1,3027)	1:26:A:VAL:H	1:26:A:VAL:HG22	12	0.18
(1,3027)	1:26:A:VAL:H	1:26:A:VAL:HG23	12	0.18
(1,2966)	1:17:A:TYR:H	1:15:A:LEU:HG	18	0.18
(1,2896)	1:158:A:MET:H	1:158:A:MET:HG3	8	0.18
(1,2896)	1:158:A:MET:H	1:158:A:MET:HG3	13	0.18
(1,2878)	1:57:A:SER:H	1:56:A:GLU:HG3	19	0.18
(1,2832)	1:126:A:ILE:H	1:154:A:VAL:HB	2	0.18
(1,2762)	1:197:A:LEU:H	1:200:A:LYS:H	12	0.18
(1,2742)	1:4:A:LYS:H	1:2:A:ASP:HA	5	0.18
(1,2704)	1:162:A:PRO:HA	1:162:A:PRO:HD3	4	0.18
(1,2704)	1:162:A:PRO:HA	1:162:A:PRO:HD3	8	0.18
(1,2704)	1:162:A:PRO:HA	1:162:A:PRO:HD3	14	0.18
(1,2704)	1:162:A:PRO:HA	1:162:A:PRO:HD3	15	0.18
(1,2704)	1:162:A:PRO:HA	1:162:A:PRO:HD3	19	0.18
(1,2698)	1:132:A:VAL:H	1:130:A:LYS:H	15	0.18
(1,2697)	1:31:A:LYS:H	1:32:A:LYS:HA	3	0.18
(1,2697)	1:31:A:LYS:H	1:32:A:LYS:HA	11	0.18
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB1	9	0.18
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB2	9	0.18
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB3	9	0.18
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB1	14	0.18
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB2	14	0.18
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB3	14	0.18
(1,2658)	1:104:A:GLY:H	1:106:A:ILE:HD11	3	0.18
(1,2658)	1:104:A:GLY:H	1:106:A:ILE:HD12	3	0.18
(1,2658)	1:104:A:GLY:H	1:106:A:ILE:HD13	3	0.18
(1,2650)	1:168:A:VAL:H	1:154:A:VAL:HB	1	0.18
(1,2650)	1:168:A:VAL:H	1:154:A:VAL:HB	2	0.18
(1,2650)	1:168:A:VAL:H	1:154:A:VAL:HB	4	0.18
(1,2650)	1:168:A:VAL:H	1:154:A:VAL:HB	5	0.18
(1,2650)	1:168:A:VAL:H	1:154:A:VAL:HB	14	0.18
(1,2650)	1:168:A:VAL:H	1:154:A:VAL:HB	20	0.18
(1,2614)	1:19:A:ARG:H	1:21:A:THR:HG21	17	0.18
(1,2614)	1:19:A:ARG:H	1:21:A:THR:HG22	17	0.18
(1,2614)	1:19:A:ARG:H	1:21:A:THR:HG23	17	0.18
(1,2606)	1:159:A:GLU:HA	1:158:A:MET:HB3	10	0.18
(1,2572)	1:151:A:CYS:H	1:152:A:GLY:HA3	13	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD11	9	0.18
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD12	9	0.18
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD13	9	0.18
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD11	15	0.18
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD12	15	0.18
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD13	15	0.18
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD21	2	0.18
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD22	2	0.18
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD23	2	0.18
(1,2520)	1:27:A:VAL:H	1:28:A:LYS:HA	10	0.18
(1,2513)	1:60:A:LYS:H	1:61:A:LEU:HD21	20	0.18
(1,2513)	1:60:A:LYS:H	1:61:A:LEU:HD22	20	0.18
(1,2513)	1:60:A:LYS:H	1:61:A:LEU:HD23	20	0.18
(1,2439)	1:202:A:GLY:H	1:198:A:ASN:HB3	7	0.18
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD21	5	0.18
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD22	5	0.18
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD23	5	0.18
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD21	10	0.18
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD22	10	0.18
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD23	10	0.18
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB1	1	0.18
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB2	1	0.18
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB3	1	0.18
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB1	2	0.18
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB2	2	0.18
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB3	2	0.18
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB1	7	0.18
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB2	7	0.18
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB3	7	0.18
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG11	10	0.18
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG12	10	0.18
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG13	10	0.18
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG11	11	0.18
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG12	11	0.18
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG13	11	0.18
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG11	13	0.18
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG12	13	0.18
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG13	13	0.18
(1,2294)	1:153:A:PHE:H	1:154:A:VAL:HB	2	0.18
(1,2289)	1:45:A:GLY:H	1:43:A:PHE:H	8	0.18
(1,2284)	1:34:A:THR:HG21	1:26:A:VAL:HG21	5	0.18
(1,2284)	1:34:A:THR:HG21	1:26:A:VAL:HG22	5	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2284)	1:34:A:THR:HG21	1:26:A:VAL:HG23	5	0.18
(1,2284)	1:34:A:THR:HG22	1:26:A:VAL:HG21	5	0.18
(1,2284)	1:34:A:THR:HG22	1:26:A:VAL:HG22	5	0.18
(1,2284)	1:34:A:THR:HG22	1:26:A:VAL:HG23	5	0.18
(1,2284)	1:34:A:THR:HG23	1:26:A:VAL:HG21	5	0.18
(1,2284)	1:34:A:THR:HG23	1:26:A:VAL:HG22	5	0.18
(1,2284)	1:34:A:THR:HG23	1:26:A:VAL:HG23	5	0.18
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG11	6	0.18
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG12	6	0.18
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG13	6	0.18
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG11	6	0.18
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG12	6	0.18
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG13	6	0.18
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG11	6	0.18
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG12	6	0.18
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG13	6	0.18
(1,2252)	1:6:A:ILE:H	1:8:A:GLN:HG3	13	0.18
(1,2252)	1:6:A:ILE:H	1:8:A:GLN:HG3	16	0.18
(1,2252)	1:6:A:ILE:H	1:8:A:GLN:HG3	17	0.18
(1,2250)	1:102:A:ALA:HB1	1:183:A:ILE:HD11	2	0.18
(1,2250)	1:102:A:ALA:HB1	1:183:A:ILE:HD12	2	0.18
(1,2250)	1:102:A:ALA:HB1	1:183:A:ILE:HD13	2	0.18
(1,2250)	1:102:A:ALA:HB2	1:183:A:ILE:HD11	2	0.18
(1,2250)	1:102:A:ALA:HB2	1:183:A:ILE:HD12	2	0.18
(1,2250)	1:102:A:ALA:HB2	1:183:A:ILE:HD13	2	0.18
(1,2250)	1:102:A:ALA:HB3	1:183:A:ILE:HD11	2	0.18
(1,2250)	1:102:A:ALA:HB3	1:183:A:ILE:HD12	2	0.18
(1,2250)	1:102:A:ALA:HB3	1:183:A:ILE:HD13	2	0.18
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD11	15	0.18
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD12	15	0.18
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD13	15	0.18
(1,2173)	1:145:A:ARG:HG2	1:133:A:ASP:HA	2	0.18
(1,2173)	1:145:A:ARG:HG2	1:133:A:ASP:HA	8	0.18
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD11	2	0.18
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD12	2	0.18
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD13	2	0.18
(1,2128)	1:66:A:TYR:H	1:71:A:ARG:H	13	0.18
(1,2065)	1:102:A:ALA:HB1	1:105:A:SER:HB3	14	0.18
(1,2065)	1:102:A:ALA:HB2	1:105:A:SER:HB3	14	0.18
(1,2065)	1:102:A:ALA:HB3	1:105:A:SER:HB3	14	0.18
(1,2043)	1:65:A:LEU:HD11	1:67:A:GLN:H	10	0.18
(1,2043)	1:65:A:LEU:HD12	1:67:A:GLN:H	10	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2043)	1:65:A:LEU:HD13	1:67:A:GLN:H	10	0.18
(1,2030)	1:28:A:LYS:H	1:34:A:THR:HA	14	0.18
(1,2027)	1:98:A:THR:HG21	1:111:A:PHE:H	18	0.18
(1,2027)	1:98:A:THR:HG22	1:111:A:PHE:H	18	0.18
(1,2027)	1:98:A:THR:HG23	1:111:A:PHE:H	18	0.18
(1,2020)	1:129:A:SER:H	1:116:A:TYR:H	1	0.18
(1,2020)	1:129:A:SER:H	1:116:A:TYR:H	19	0.18
(1,1937)	1:176:A:ARG:H	1:174:A:GLU:HA	11	0.18
(1,1869)	1:65:A:LEU:H	1:64:A:PHE:HZ	5	0.18
(1,1869)	1:65:A:LEU:H	1:64:A:PHE:HZ	6	0.18
(1,1869)	1:65:A:LEU:H	1:64:A:PHE:HZ	8	0.18
(1,1869)	1:65:A:LEU:H	1:64:A:PHE:HZ	11	0.18
(1,1869)	1:65:A:LEU:H	1:64:A:PHE:HZ	14	0.18
(1,1823)	1:207:A:ARG:HA	1:207:A:ARG:HG2	3	0.18
(1,1804)	1:165:A:SER:H	1:55:A:PRO:HD3	5	0.18
(1,1804)	1:165:A:SER:H	1:55:A:PRO:HD3	6	0.18
(1,1804)	1:165:A:SER:H	1:55:A:PRO:HD3	11	0.18
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD11	1	0.18
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD12	1	0.18
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD13	1	0.18
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD11	1	0.18
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD12	1	0.18
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD13	1	0.18
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD11	1	0.18
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD12	1	0.18
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD13	1	0.18
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD11	10	0.18
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD12	10	0.18
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD13	10	0.18
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD11	10	0.18
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD12	10	0.18
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD13	10	0.18
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD11	10	0.18
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD12	10	0.18
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD13	10	0.18
(1,1570)	1:175:A:MET:H	1:174:A:GLU:HG3	13	0.18
(1,1516)	1:168:A:VAL:HG21	1:51:A:GLU:HG2	11	0.18
(1,1516)	1:168:A:VAL:HG22	1:51:A:GLU:HG2	11	0.18
(1,1516)	1:168:A:VAL:HG23	1:51:A:GLU:HG2	11	0.18
(1,1481)	1:132:A:VAL:HG11	1:130:A:LYS:H	9	0.18
(1,1481)	1:132:A:VAL:HG12	1:130:A:LYS:H	9	0.18
(1,1481)	1:132:A:VAL:HG13	1:130:A:LYS:H	9	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1481)	1:132:A:VAL:HG11	1:130:A:LYS:H	17	0.18
(1,1481)	1:132:A:VAL:HG12	1:130:A:LYS:H	17	0.18
(1,1481)	1:132:A:VAL:HG13	1:130:A:LYS:H	17	0.18
(1,1438)	1:192:A:LEU:HG	1:188:A:MET:HB3	8	0.18
(1,1361)	1:200:A:LYS:HB3	1:200:A:LYS:HD2	8	0.18
(1,1353)	1:15:A:LEU:H	1:14:A:VAL:HG21	1	0.18
(1,1353)	1:15:A:LEU:H	1:14:A:VAL:HG22	1	0.18
(1,1353)	1:15:A:LEU:H	1:14:A:VAL:HG23	1	0.18
(1,1315)	1:37:A:SER:H	1:49:A:ARG:H	6	0.18
(1,1315)	1:37:A:SER:H	1:49:A:ARG:H	12	0.18
(1,1302)	1:198:A:ASN:H	1:76:A:LYS:HG3	10	0.18
(1,1268)	1:87:A:ILE:HG13	1:93:A:ILE:HG13	20	0.18
(1,1259)	1:25:A:LYS:H	1:24:A:TRP:HE1	4	0.18
(1,1259)	1:25:A:LYS:H	1:24:A:TRP:HE1	5	0.18
(1,1259)	1:25:A:LYS:H	1:24:A:TRP:HE1	14	0.18
(1,1259)	1:25:A:LYS:H	1:24:A:TRP:HE1	19	0.18
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB1	5	0.18
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB2	5	0.18
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB3	5	0.18
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB1	6	0.18
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB2	6	0.18
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB3	6	0.18
(1,1211)	1:179:A:LEU:HD11	1:183:A:ILE:HG21	3	0.18
(1,1211)	1:179:A:LEU:HD11	1:183:A:ILE:HG22	3	0.18
(1,1211)	1:179:A:LEU:HD11	1:183:A:ILE:HG23	3	0.18
(1,1211)	1:179:A:LEU:HD12	1:183:A:ILE:HG21	3	0.18
(1,1211)	1:179:A:LEU:HD12	1:183:A:ILE:HG22	3	0.18
(1,1211)	1:179:A:LEU:HD12	1:183:A:ILE:HG23	3	0.18
(1,1211)	1:179:A:LEU:HD13	1:183:A:ILE:HG21	3	0.18
(1,1211)	1:179:A:LEU:HD13	1:183:A:ILE:HG22	3	0.18
(1,1211)	1:179:A:LEU:HD13	1:183:A:ILE:HG23	3	0.18
(1,1174)	1:126:A:ILE:HD11	1:152:A:GLY:H	5	0.18
(1,1174)	1:126:A:ILE:HD12	1:152:A:GLY:H	5	0.18
(1,1174)	1:126:A:ILE:HD13	1:152:A:GLY:H	5	0.18
(1,1151)	1:18:A:ASN:HB2	1:49:A:ARG:HG3	3	0.18
(1,1082)	1:194:A:ASN:H	1:193:A:VAL:HB	20	0.18
(1,1067)	1:70:A:ASP:HB3	1:73:A:THR:H	17	0.18
(1,983)	1:86:A:ARG:HD3	1:86:A:ARG:HB2	19	0.18
(1,949)	1:151:A:CYS:H	1:149:A:HIS:HB2	17	0.18
(1,923)	1:196:A:ILE:HG21	1:193:A:VAL:HB	3	0.18
(1,923)	1:196:A:ILE:HG22	1:193:A:VAL:HB	3	0.18
(1,923)	1:196:A:ILE:HG23	1:193:A:VAL:HB	3	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,923)	1:196:A:ILE:HG21	1:193:A:VAL:HB	12	0.18
(1,923)	1:196:A:ILE:HG22	1:193:A:VAL:HB	12	0.18
(1,923)	1:196:A:ILE:HG23	1:193:A:VAL:HB	12	0.18
(1,923)	1:196:A:ILE:HG21	1:193:A:VAL:HB	13	0.18
(1,923)	1:196:A:ILE:HG22	1:193:A:VAL:HB	13	0.18
(1,923)	1:196:A:ILE:HG23	1:193:A:VAL:HB	13	0.18
(1,923)	1:196:A:ILE:HG21	1:193:A:VAL:HB	17	0.18
(1,923)	1:196:A:ILE:HG22	1:193:A:VAL:HB	17	0.18
(1,923)	1:196:A:ILE:HG23	1:193:A:VAL:HB	17	0.18
(1,905)	1:38:A:LYS:H	1:37:A:SER:H	7	0.18
(1,905)	1:38:A:LYS:H	1:37:A:SER:H	20	0.18
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB1	2	0.18
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB2	2	0.18
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB3	2	0.18
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB1	10	0.18
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB2	10	0.18
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB3	10	0.18
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB1	11	0.18
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB2	11	0.18
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB3	11	0.18
(1,879)	1:121:A:GLU:H	1:119:A:ARG:H	10	0.18
(1,879)	1:121:A:GLU:H	1:119:A:ARG:H	19	0.18
(1,858)	1:101:A:PHE:H	1:102:A:ALA:H	13	0.18
(1,857)	1:185:A:GLU:H	1:187:A:THR:HG21	19	0.18
(1,857)	1:185:A:GLU:H	1:187:A:THR:HG22	19	0.18
(1,857)	1:185:A:GLU:H	1:187:A:THR:HG23	19	0.18
(1,848)	1:67:A:GLN:H	1:65:A:LEU:HD21	19	0.18
(1,848)	1:67:A:GLN:H	1:65:A:LEU:HD22	19	0.18
(1,848)	1:67:A:GLN:H	1:65:A:LEU:HD23	19	0.18
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG11	17	0.18
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG12	17	0.18
(1,829)	1:28:A:LYS:H	1:26:A:VAL:HG13	17	0.18
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG11	9	0.18
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG12	9	0.18
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG13	9	0.18
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG21	5	0.18
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG22	5	0.18
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG23	5	0.18
(1,665)	1:167:A:LEU:H	1:54:A:ILE:HB	7	0.18
(1,665)	1:167:A:LEU:H	1:54:A:ILE:HB	10	0.18
(1,665)	1:167:A:LEU:H	1:54:A:ILE:HB	15	0.18
(1,647)	1:37:A:SER:H	1:25:A:LYS:HB2	10	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,593)	1:84:A:VAL:H	1:86:A:ARG:HG2	20	0.18
(1,567)	1:156:A:SER:H	1:166:A:LYS:HA	13	0.18
(1,554)	1:61:A:LEU:H	1:59:A:ALA:HA	9	0.18
(1,554)	1:61:A:LEU:H	1:59:A:ALA:HA	12	0.18
(1,554)	1:61:A:LEU:H	1:59:A:ALA:HA	20	0.18
(1,539)	1:206:A:HIS:H	1:202:A:GLY:HA3	2	0.18
(1,539)	1:206:A:HIS:H	1:202:A:GLY:HA3	3	0.18
(1,536)	1:30:A:SER:H	1:34:A:THR:HA	4	0.18
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD11	16	0.18
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD12	16	0.18
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD13	16	0.18
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD21	14	0.18
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD22	14	0.18
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD23	14	0.18
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD21	16	0.18
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD22	16	0.18
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD23	16	0.18
(1,368)	1:192:A:LEU:HG	1:171:A:VAL:HG21	6	0.18
(1,368)	1:192:A:LEU:HG	1:171:A:VAL:HG22	6	0.18
(1,368)	1:192:A:LEU:HG	1:171:A:VAL:HG23	6	0.18
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG11	10	0.18
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG12	10	0.18
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG13	10	0.18
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG11	10	0.18
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG12	10	0.18
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG13	10	0.18
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG11	10	0.18
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG12	10	0.18
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG13	10	0.18
(1,251)	1:61:A:LEU:HG	1:203:A:ILE:HG21	6	0.18
(1,251)	1:61:A:LEU:HG	1:203:A:ILE:HG22	6	0.18
(1,251)	1:61:A:LEU:HG	1:203:A:ILE:HG23	6	0.18
(1,227)	1:168:A:VAL:HG21	1:166:A:LYS:HE3	9	0.18
(1,227)	1:168:A:VAL:HG22	1:166:A:LYS:HE3	9	0.18
(1,227)	1:168:A:VAL:HG23	1:166:A:LYS:HE3	9	0.18
(1,199)	1:10:A:THR:HG21	1:8:A:GLN:H	9	0.18
(1,199)	1:10:A:THR:HG22	1:8:A:GLN:H	9	0.18
(1,199)	1:10:A:THR:HG23	1:8:A:GLN:H	9	0.18
(1,162)	1:167:A:LEU:H	1:168:A:VAL:H	5	0.18
(1,151)	1:129:A:SER:H	1:150:A:PRO:HA	3	0.18
(1,144)	1:202:A:GLY:H	1:200:A:LYS:HB2	6	0.18
(1,144)	1:202:A:GLY:H	1:200:A:LYS:HB2	18	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,131)	1:84:A:VAL:HG11	1:82:A:ASN:HB2	3	0.18
(1,131)	1:84:A:VAL:HG12	1:82:A:ASN:HB2	3	0.18
(1,131)	1:84:A:VAL:HG13	1:82:A:ASN:HB2	3	0.18
(1,3)	1:76:A:LYS:HE3	1:197:A:LEU:HD11	20	0.18
(1,3)	1:76:A:LYS:HE3	1:197:A:LEU:HD12	20	0.18
(1,3)	1:76:A:LYS:HE3	1:197:A:LEU:HD13	20	0.18
(1,4372)	1:206:A:HIS:H	1:203:A:ILE:H	20	0.17
(1,4359)	1:72:A:ILE:HA	1:76:A:LYS:H	4	0.17
(1,4358)	1:71:A:ARG:H	1:74:A:TRP:HD1	4	0.17
(1,4306)	1:102:A:ALA:HA	1:105:A:SER:H	10	0.17
(1,4291)	1:91:A:THR:HG21	1:93:A:ILE:HG21	9	0.17
(1,4291)	1:91:A:THR:HG21	1:93:A:ILE:HG22	9	0.17
(1,4291)	1:91:A:THR:HG21	1:93:A:ILE:HG23	9	0.17
(1,4291)	1:91:A:THR:HG22	1:93:A:ILE:HG21	9	0.17
(1,4291)	1:91:A:THR:HG22	1:93:A:ILE:HG22	9	0.17
(1,4291)	1:91:A:THR:HG22	1:93:A:ILE:HG23	9	0.17
(1,4291)	1:91:A:THR:HG23	1:93:A:ILE:HG21	9	0.17
(1,4291)	1:91:A:THR:HG23	1:93:A:ILE:HG22	9	0.17
(1,4291)	1:91:A:THR:HG23	1:93:A:ILE:HG23	9	0.17
(1,4256)	1:164:A:TYR:H	1:160:A:GLU:HA	5	0.17
(1,4245)	1:3:A:PHE:H	1:5:A:ALA:HB1	5	0.17
(1,4245)	1:3:A:PHE:H	1:5:A:ALA:HB2	5	0.17
(1,4245)	1:3:A:PHE:H	1:5:A:ALA:HB3	5	0.17
(1,4208)	1:176:A:ARG:H	1:144:A:ILE:HG21	8	0.17
(1,4208)	1:176:A:ARG:H	1:144:A:ILE:HG22	8	0.17
(1,4208)	1:176:A:ARG:H	1:144:A:ILE:HG23	8	0.17
(1,4176)	1:34:A:THR:HG21	1:33:A:ILE:HA	11	0.17
(1,4176)	1:34:A:THR:HG22	1:33:A:ILE:HA	11	0.17
(1,4176)	1:34:A:THR:HG23	1:33:A:ILE:HA	11	0.17
(1,4171)	1:116:A:TYR:H	1:11:A:ALA:HB1	9	0.17
(1,4171)	1:116:A:TYR:H	1:11:A:ALA:HB2	9	0.17
(1,4171)	1:116:A:TYR:H	1:11:A:ALA:HB3	9	0.17
(1,4150)	1:121:A:GLU:H	1:122:A:GLY:H	7	0.17
(1,4150)	1:121:A:GLU:H	1:122:A:GLY:H	13	0.17
(1,4148)	1:203:A:ILE:HG21	1:199:A:ALA:HA	12	0.17
(1,4148)	1:203:A:ILE:HG22	1:199:A:ALA:HA	12	0.17
(1,4148)	1:203:A:ILE:HG23	1:199:A:ALA:HA	12	0.17
(1,4133)	1:28:A:LYS:H	1:37:A:SER:H	4	0.17
(1,4106)	1:96:A:THR:H	1:81:A:TYR:HA	13	0.17
(1,4089)	1:127:A:ILE:HD11	1:65:A:LEU:HD11	4	0.17
(1,4089)	1:127:A:ILE:HD11	1:65:A:LEU:HD12	4	0.17
(1,4089)	1:127:A:ILE:HD11	1:65:A:LEU:HD13	4	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4089)	1:127:A:ILE:HD12	1:65:A:LEU:HD11	4	0.17
(1,4089)	1:127:A:ILE:HD12	1:65:A:LEU:HD12	4	0.17
(1,4089)	1:127:A:ILE:HD12	1:65:A:LEU:HD13	4	0.17
(1,4089)	1:127:A:ILE:HD13	1:65:A:LEU:HD11	4	0.17
(1,4089)	1:127:A:ILE:HD13	1:65:A:LEU:HD12	4	0.17
(1,4089)	1:127:A:ILE:HD13	1:65:A:LEU:HD13	4	0.17
(1,4070)	1:42:A:LYS:HD3	1:42:A:LYS:HB3	14	0.17
(1,4057)	1:145:A:ARG:H	1:143:A:TYR:HA	2	0.17
(1,4057)	1:145:A:ARG:H	1:143:A:TYR:HA	3	0.17
(1,4057)	1:145:A:ARG:H	1:143:A:TYR:HA	6	0.17
(1,4057)	1:145:A:ARG:H	1:143:A:TYR:HA	18	0.17
(1,4046)	1:183:A:ILE:H	1:184:A:ILE:HB	3	0.17
(1,4046)	1:183:A:ILE:H	1:184:A:ILE:HB	4	0.17
(1,3975)	1:208:A:THR:H	1:204:A:LYS:HB3	3	0.17
(1,3793)	1:137:A:TYR:H	1:134:A:PHE:HZ	12	0.17
(1,3779)	1:114:A:LEU:H	1:130:A:LYS:HB3	17	0.17
(1,3749)	1:8:A:GLN:H	1:11:A:ALA:H	11	0.17
(1,3749)	1:8:A:GLN:H	1:11:A:ALA:H	18	0.17
(1,3733)	1:3:A:PHE:H	1:4:A:LYS:HA	19	0.17
(1,3717)	1:37:A:SER:H	1:24:A:TRP:HA	8	0.17
(1,3694)	1:80:A:VAL:HG21	1:79:A:GLN:HG3	9	0.17
(1,3694)	1:80:A:VAL:HG22	1:79:A:GLN:HG3	9	0.17
(1,3694)	1:80:A:VAL:HG23	1:79:A:GLN:HG3	9	0.17
(1,3694)	1:80:A:VAL:HG21	1:79:A:GLN:HG3	14	0.17
(1,3694)	1:80:A:VAL:HG22	1:79:A:GLN:HG3	14	0.17
(1,3694)	1:80:A:VAL:HG23	1:79:A:GLN:HG3	14	0.17
(1,3673)	1:65:A:LEU:H	1:66:A:TYR:HA	16	0.17
(1,3600)	1:82:A:ASN:H	1:83:A:MET:HB2	7	0.17
(1,3599)	1:131:A:SER:H	1:132:A:VAL:HA	17	0.17
(1,3573)	1:184:A:ILE:H	1:187:A:THR:H	8	0.17
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB1	12	0.17
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB2	12	0.17
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB3	12	0.17
(1,3537)	1:28:A:LYS:H	1:28:A:LYS:HD2	5	0.17
(1,3531)	1:88:A:ASP:H	1:86:A:ARG:HB2	7	0.17
(1,3522)	1:112:A:ILE:H	1:96:A:THR:HB	20	0.17
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD11	17	0.17
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD12	17	0.17
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD13	17	0.17
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD11	19	0.17
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD12	19	0.17
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD13	19	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3486)	1:36:A:SER:HA	1:24:A:TRP:HA	15	0.17
(1,3473)	1:1:A:MET:HA	1:4:A:LYS:HB3	16	0.17
(1,3429)	1:130:A:LYS:HE2	1:10:A:THR:HG21	19	0.17
(1,3429)	1:130:A:LYS:HE2	1:10:A:THR:HG22	19	0.17
(1,3429)	1:130:A:LYS:HE2	1:10:A:THR:HG23	19	0.17
(1,3421)	1:99:A:GLN:H	1:109:A:ARG:H	9	0.17
(1,3360)	1:116:A:TYR:H	1:114:A:LEU:HG	20	0.17
(1,3358)	1:15:A:LEU:HD11	1:12:A:GLN:H	5	0.17
(1,3358)	1:15:A:LEU:HD12	1:12:A:GLN:H	5	0.17
(1,3358)	1:15:A:LEU:HD13	1:12:A:GLN:H	5	0.17
(1,3358)	1:15:A:LEU:HD11	1:12:A:GLN:H	7	0.17
(1,3358)	1:15:A:LEU:HD12	1:12:A:GLN:H	7	0.17
(1,3358)	1:15:A:LEU:HD13	1:12:A:GLN:H	7	0.17
(1,3260)	1:201:A:ASP:H	1:199:A:ALA:HA	1	0.17
(1,3173)	1:61:A:LEU:H	1:63:A:ASP:HB2	12	0.17
(1,3108)	1:204:A:LYS:HA	1:204:A:LYS:HD3	2	0.17
(1,3096)	1:61:A:LEU:HG	1:57:A:SER:HA	4	0.17
(1,3096)	1:61:A:LEU:HG	1:57:A:SER:HA	15	0.17
(1,3027)	1:26:A:VAL:H	1:26:A:VAL:HG21	9	0.17
(1,3027)	1:26:A:VAL:H	1:26:A:VAL:HG22	9	0.17
(1,3027)	1:26:A:VAL:H	1:26:A:VAL:HG23	9	0.17
(1,2998)	1:28:A:LYS:H	1:26:A:VAL:HB	6	0.17
(1,2998)	1:28:A:LYS:H	1:26:A:VAL:HB	12	0.17
(1,2972)	1:122:A:GLY:H	1:121:A:GLU:HB2	13	0.17
(1,2966)	1:17:A:TYR:H	1:15:A:LEU:HG	2	0.17
(1,2909)	1:158:A:MET:HA	1:166:A:LYS:HB2	5	0.17
(1,2834)	1:207:A:ARG:H	1:207:A:ARG:HG3	2	0.17
(1,2832)	1:126:A:ILE:H	1:154:A:VAL:HB	13	0.17
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG21	3	0.17
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG22	3	0.17
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG23	3	0.17
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG21	3	0.17
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG22	3	0.17
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG23	3	0.17
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG21	3	0.17
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG22	3	0.17
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG23	3	0.17
(1,2790)	1:44:A:HIS:H	1:45:A:GLY:HA3	6	0.17
(1,2742)	1:4:A:LYS:H	1:2:A:ASP:HA	1	0.17
(1,2742)	1:4:A:LYS:H	1:2:A:ASP:HA	19	0.17
(1,2739)	1:211:A:ARG:HA	1:214:A:PHE:HA	10	0.17
(1,2704)	1:162:A:PRO:HA	1:162:A:PRO:HD3	1	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2704)	1:162:A:PRO:HA	1:162:A:PRO:HD3	10	0.17
(1,2698)	1:132:A:VAL:H	1:130:A:LYS:H	1	0.17
(1,2678)	1:205:A:ALA:HB1	1:203:A:ILE:HA	4	0.17
(1,2678)	1:205:A:ALA:HB2	1:203:A:ILE:HA	4	0.17
(1,2678)	1:205:A:ALA:HB3	1:203:A:ILE:HA	4	0.17
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB1	4	0.17
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB2	4	0.17
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB3	4	0.17
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB1	6	0.17
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB2	6	0.17
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB3	6	0.17
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB1	7	0.17
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB2	7	0.17
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB3	7	0.17
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB1	13	0.17
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB2	13	0.17
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB3	13	0.17
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB1	16	0.17
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB2	16	0.17
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB3	16	0.17
(1,2650)	1:168:A:VAL:H	1:154:A:VAL:HB	16	0.17
(1,2650)	1:168:A:VAL:H	1:154:A:VAL:HB	18	0.17
(1,2649)	1:54:A:ILE:HG13	1:200:A:LYS:H	7	0.17
(1,2649)	1:54:A:ILE:HG13	1:200:A:LYS:H	18	0.17
(1,2620)	1:188:A:MET:HB2	1:189:A:PRO:HD3	5	0.17
(1,2614)	1:19:A:ARG:H	1:21:A:THR:HG21	20	0.17
(1,2614)	1:19:A:ARG:H	1:21:A:THR:HG22	20	0.17
(1,2614)	1:19:A:ARG:H	1:21:A:THR:HG23	20	0.17
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD11	1	0.17
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD12	1	0.17
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD13	1	0.17
(1,2545)	1:84:A:VAL:H	1:95:A:HIS:HA	17	0.17
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD21	6	0.17
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD22	6	0.17
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD23	6	0.17
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD21	15	0.17
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD22	15	0.17
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD23	15	0.17
(1,2520)	1:27:A:VAL:H	1:28:A:LYS:HA	7	0.17
(1,2513)	1:60:A:LYS:H	1:61:A:LEU:HD21	9	0.17
(1,2513)	1:60:A:LYS:H	1:61:A:LEU:HD22	9	0.17
(1,2513)	1:60:A:LYS:H	1:61:A:LEU:HD23	9	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2471)	1:154:A:VAL:HG11	1:124:A:MET:HB3	2	0.17
(1,2471)	1:154:A:VAL:HG12	1:124:A:MET:HB3	2	0.17
(1,2471)	1:154:A:VAL:HG13	1:124:A:MET:HB3	2	0.17
(1,2439)	1:202:A:GLY:H	1:198:A:ASN:HB3	13	0.17
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD21	6	0.17
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD22	6	0.17
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD23	6	0.17
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD21	15	0.17
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD22	15	0.17
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD23	15	0.17
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD21	18	0.17
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD22	18	0.17
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD23	18	0.17
(1,2351)	1:80:A:VAL:H	1:81:A:TYR:HB3	12	0.17
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG11	20	0.17
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG12	20	0.17
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG13	20	0.17
(1,2332)	1:78:A:LEU:H	1:76:A:LYS:HB2	10	0.17
(1,2294)	1:153:A:PHE:H	1:154:A:VAL:HB	6	0.17
(1,2287)	1:43:A:PHE:H	1:41:A:ARG:HB3	4	0.17
(1,2287)	1:43:A:PHE:H	1:41:A:ARG:HB3	5	0.17
(1,2285)	1:86:A:ARG:HD3	1:86:A:ARG:HA	2	0.17
(1,2252)	1:6:A:ILE:H	1:8:A:GLN:HG3	18	0.17
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD11	7	0.17
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD12	7	0.17
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD13	7	0.17
(1,2144)	1:170:A:PHE:H	1:169:A:MET:H	1	0.17
(1,2020)	1:129:A:SER:H	1:116:A:TYR:H	7	0.17
(1,2020)	1:129:A:SER:H	1:116:A:TYR:H	18	0.17
(1,1923)	1:71:A:ARG:HB3	1:78:A:LEU:HG	1	0.17
(1,1908)	1:15:A:LEU:H	1:15:A:LEU:HG	15	0.17
(1,1871)	1:195:A:PHE:H	1:192:A:LEU:H	5	0.17
(1,1856)	1:129:A:SER:HB3	1:114:A:LEU:H	12	0.17
(1,1826)	1:184:A:ILE:HD11	1:183:A:ILE:HG13	6	0.17
(1,1826)	1:184:A:ILE:HD12	1:183:A:ILE:HG13	6	0.17
(1,1826)	1:184:A:ILE:HD13	1:183:A:ILE:HG13	6	0.17
(1,1814)	1:145:A:ARG:H	1:139:A:PRO:HA	2	0.17
(1,1804)	1:165:A:SER:H	1:55:A:PRO:HD3	7	0.17
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD11	6	0.17
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD12	6	0.17
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD13	6	0.17
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD11	6	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD12	6	0.17
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD13	6	0.17
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD11	6	0.17
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD12	6	0.17
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD13	6	0.17
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD11	14	0.17
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD12	14	0.17
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD13	14	0.17
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD11	14	0.17
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD12	14	0.17
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD13	14	0.17
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD11	14	0.17
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD12	14	0.17
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD13	14	0.17
(1,1581)	1:22:A:SER:H	1:21:A:THR:HG21	20	0.17
(1,1581)	1:22:A:SER:H	1:21:A:THR:HG22	20	0.17
(1,1581)	1:22:A:SER:H	1:21:A:THR:HG23	20	0.17
(1,1580)	1:174:A:GLU:H	1:147:A:TYR:HA	6	0.17
(1,1481)	1:132:A:VAL:HG11	1:130:A:LYS:H	6	0.17
(1,1481)	1:132:A:VAL:HG12	1:130:A:LYS:H	6	0.17
(1,1481)	1:132:A:VAL:HG13	1:130:A:LYS:H	6	0.17
(1,1481)	1:132:A:VAL:HG11	1:130:A:LYS:H	16	0.17
(1,1481)	1:132:A:VAL:HG12	1:130:A:LYS:H	16	0.17
(1,1481)	1:132:A:VAL:HG13	1:130:A:LYS:H	16	0.17
(1,1438)	1:192:A:LEU:HG	1:188:A:MET:HB3	14	0.17
(1,1431)	1:203:A:ILE:HD11	1:60:A:LYS:HD3	6	0.17
(1,1431)	1:203:A:ILE:HD12	1:60:A:LYS:HD3	6	0.17
(1,1431)	1:203:A:ILE:HD13	1:60:A:LYS:HD3	6	0.17
(1,1315)	1:37:A:SER:H	1:49:A:ARG:H	10	0.17
(1,1315)	1:37:A:SER:H	1:49:A:ARG:H	17	0.17
(1,1315)	1:37:A:SER:H	1:49:A:ARG:H	18	0.17
(1,1293)	1:11:A:ALA:HA	1:14:A:VAL:HB	8	0.17
(1,1259)	1:25:A:LYS:H	1:24:A:TRP:HE1	15	0.17
(1,1076)	1:146:A:GLY:H	1:109:A:ARG:HD3	6	0.17
(1,1030)	1:26:A:VAL:H	1:36:A:SER:HB2	9	0.17
(1,955)	1:196:A:ILE:HD11	1:167:A:LEU:HG	3	0.17
(1,955)	1:196:A:ILE:HD12	1:167:A:LEU:HG	3	0.17
(1,955)	1:196:A:ILE:HD13	1:167:A:LEU:HG	3	0.17
(1,955)	1:196:A:ILE:HD11	1:167:A:LEU:HG	18	0.17
(1,955)	1:196:A:ILE:HD12	1:167:A:LEU:HG	18	0.17
(1,955)	1:196:A:ILE:HD13	1:167:A:LEU:HG	18	0.17
(1,949)	1:151:A:CYS:H	1:149:A:HIS:HB2	18	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,934)	1:184:A:ILE:H	1:187:A:THR:HG21	7	0.17
(1,934)	1:184:A:ILE:H	1:187:A:THR:HG22	7	0.17
(1,934)	1:184:A:ILE:H	1:187:A:THR:HG23	7	0.17
(1,923)	1:196:A:ILE:HG21	1:193:A:VAL:HB	7	0.17
(1,923)	1:196:A:ILE:HG22	1:193:A:VAL:HB	7	0.17
(1,923)	1:196:A:ILE:HG23	1:193:A:VAL:HB	7	0.17
(1,923)	1:196:A:ILE:HG21	1:193:A:VAL:HB	9	0.17
(1,923)	1:196:A:ILE:HG22	1:193:A:VAL:HB	9	0.17
(1,923)	1:196:A:ILE:HG23	1:193:A:VAL:HB	9	0.17
(1,905)	1:38:A:LYS:H	1:37:A:SER:H	2	0.17
(1,905)	1:38:A:LYS:H	1:37:A:SER:H	6	0.17
(1,905)	1:38:A:LYS:H	1:37:A:SER:H	14	0.17
(1,903)	1:194:A:ASN:HA	1:196:A:ILE:H	6	0.17
(1,903)	1:194:A:ASN:HA	1:196:A:ILE:H	13	0.17
(1,879)	1:121:A:GLU:H	1:119:A:ARG:H	20	0.17
(1,878)	1:180:A:SER:H	1:184:A:ILE:HB	9	0.17
(1,878)	1:180:A:SER:H	1:184:A:ILE:HB	16	0.17
(1,833)	1:60:A:LYS:HE3	1:203:A:ILE:HD11	13	0.17
(1,833)	1:60:A:LYS:HE3	1:203:A:ILE:HD12	13	0.17
(1,833)	1:60:A:LYS:HE3	1:203:A:ILE:HD13	13	0.17
(1,816)	1:162:A:PRO:HA	1:158:A:MET:H	19	0.17
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG11	10	0.17
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG12	10	0.17
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG13	10	0.17
(1,749)	1:105:A:SER:HB2	1:179:A:LEU:HG	13	0.17
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG21	1	0.17
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG22	1	0.17
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG23	1	0.17
(1,685)	1:204:A:LYS:H	1:203:A:ILE:HG12	12	0.17
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD11	4	0.17
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD12	4	0.17
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD13	4	0.17
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD11	4	0.17
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD12	4	0.17
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD13	4	0.17
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD11	4	0.17
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD12	4	0.17
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD13	4	0.17
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD11	5	0.17
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD12	5	0.17
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD13	5	0.17
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD11	5	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD12	5	0.17
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD13	5	0.17
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD11	5	0.17
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD12	5	0.17
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD13	5	0.17
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD11	18	0.17
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD12	18	0.17
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD13	18	0.17
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD11	18	0.17
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD12	18	0.17
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD13	18	0.17
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD11	18	0.17
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD12	18	0.17
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD13	18	0.17
(1,647)	1:37:A:SER:H	1:25:A:LYS:HB2	2	0.17
(1,564)	1:173:A:THR:HA	1:171:A:VAL:HG11	19	0.17
(1,564)	1:173:A:THR:HA	1:171:A:VAL:HG12	19	0.17
(1,564)	1:173:A:THR:HA	1:171:A:VAL:HG13	19	0.17
(1,554)	1:61:A:LEU:H	1:59:A:ALA:HA	3	0.17
(1,541)	1:197:A:LEU:HA	1:197:A:LEU:HD21	8	0.17
(1,541)	1:197:A:LEU:HA	1:197:A:LEU:HD22	8	0.17
(1,541)	1:197:A:LEU:HA	1:197:A:LEU:HD23	8	0.17
(1,529)	1:28:A:LYS:H	1:35:A:VAL:HB	17	0.17
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD21	13	0.17
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD22	13	0.17
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD23	13	0.17
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD21	20	0.17
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD22	20	0.17
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD23	20	0.17
(1,379)	1:69:A:GLY:HA2	1:72:A:ILE:H	3	0.17
(1,379)	1:69:A:GLY:HA2	1:72:A:ILE:H	12	0.17
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG11	13	0.17
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG12	13	0.17
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG13	13	0.17
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG11	13	0.17
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG12	13	0.17
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG13	13	0.17
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG11	13	0.17
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG12	13	0.17
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG13	13	0.17
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG11	14	0.17
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG12	14	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG13	14	0.17
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG11	14	0.17
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG12	14	0.17
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG13	14	0.17
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG11	14	0.17
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG12	14	0.17
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG13	14	0.17
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG11	19	0.17
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG12	19	0.17
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG13	19	0.17
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG11	19	0.17
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG12	19	0.17
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG13	19	0.17
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG11	19	0.17
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG12	19	0.17
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG13	19	0.17
(1,281)	1:80:A:VAL:HA	1:72:A:ILE:HG12	15	0.17
(1,261)	1:26:A:VAL:HG11	1:36:A:SER:H	4	0.17
(1,261)	1:26:A:VAL:HG12	1:36:A:SER:H	4	0.17
(1,261)	1:26:A:VAL:HG13	1:36:A:SER:H	4	0.17
(1,247)	1:52:A:GLY:H	1:168:A:VAL:HG21	10	0.17
(1,247)	1:52:A:GLY:H	1:168:A:VAL:HG22	10	0.17
(1,247)	1:52:A:GLY:H	1:168:A:VAL:HG23	10	0.17
(1,216)	1:76:A:LYS:H	1:76:A:LYS:HD2	8	0.17
(1,199)	1:10:A:THR:HG21	1:8:A:GLN:H	4	0.17
(1,199)	1:10:A:THR:HG22	1:8:A:GLN:H	4	0.17
(1,199)	1:10:A:THR:HG23	1:8:A:GLN:H	4	0.17
(1,199)	1:10:A:THR:HG21	1:8:A:GLN:H	20	0.17
(1,199)	1:10:A:THR:HG22	1:8:A:GLN:H	20	0.17
(1,199)	1:10:A:THR:HG23	1:8:A:GLN:H	20	0.17
(1,195)	1:127:A:ILE:HD11	1:67:A:GLN:HG3	9	0.17
(1,195)	1:127:A:ILE:HD12	1:67:A:GLN:HG3	9	0.17
(1,195)	1:127:A:ILE:HD13	1:67:A:GLN:HG3	9	0.17
(1,162)	1:167:A:LEU:H	1:168:A:VAL:H	6	0.17
(1,162)	1:167:A:LEU:H	1:168:A:VAL:H	8	0.17
(1,162)	1:167:A:LEU:H	1:168:A:VAL:H	10	0.17
(1,162)	1:167:A:LEU:H	1:168:A:VAL:H	11	0.17
(1,162)	1:167:A:LEU:H	1:168:A:VAL:H	18	0.17
(1,99)	1:7:A:ALA:HB1	1:6:A:ILE:HB	10	0.17
(1,99)	1:7:A:ALA:HB2	1:6:A:ILE:HB	10	0.17
(1,99)	1:7:A:ALA:HB3	1:6:A:ILE:HB	10	0.17
(1,99)	1:7:A:ALA:HB1	1:6:A:ILE:HB	18	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,99)	1:7:A:ALA:HB2	1:6:A:ILE:HB	18	0.17
(1,99)	1:7:A:ALA:HB3	1:6:A:ILE:HB	18	0.17
(1,23)	1:98:A:THR:HG21	1:110:A:ASP:H	11	0.17
(1,23)	1:98:A:THR:HG22	1:110:A:ASP:H	11	0.17
(1,23)	1:98:A:THR:HG23	1:110:A:ASP:H	11	0.17
(1,4387)	1:203:A:ILE:HD11	1:56:A:GLU:H	10	0.16
(1,4387)	1:203:A:ILE:HD12	1:56:A:GLU:H	10	0.16
(1,4387)	1:203:A:ILE:HD13	1:56:A:GLU:H	10	0.16
(1,4383)	1:137:A:TYR:HB3	1:136:A:GLU:HB3	17	0.16
(1,4372)	1:206:A:HIS:H	1:203:A:ILE:H	7	0.16
(1,4372)	1:206:A:HIS:H	1:203:A:ILE:H	18	0.16
(1,4372)	1:206:A:HIS:H	1:203:A:ILE:H	19	0.16
(1,4358)	1:71:A:ARG:H	1:74:A:TRP:HD1	1	0.16
(1,4340)	1:40:A:SER:H	1:43:A:PHE:H	16	0.16
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD11	16	0.16
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD12	16	0.16
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD13	16	0.16
(1,4318)	1:119:A:ARG:H	1:119:A:ARG:HD2	7	0.16
(1,4259)	1:140:A:SER:H	1:141:A:SER:HA	5	0.16
(1,4256)	1:164:A:TYR:H	1:160:A:GLU:HA	9	0.16
(1,4242)	1:130:A:LYS:HD2	1:10:A:THR:H	12	0.16
(1,4234)	1:91:A:THR:H	1:86:A:ARG:HA	18	0.16
(1,4180)	1:81:A:TYR:H	1:68:A:THR:HA	19	0.16
(1,4176)	1:34:A:THR:HG21	1:33:A:ILE:HA	5	0.16
(1,4176)	1:34:A:THR:HG22	1:33:A:ILE:HA	5	0.16
(1,4176)	1:34:A:THR:HG23	1:33:A:ILE:HA	5	0.16
(1,4176)	1:34:A:THR:HG21	1:33:A:ILE:HA	12	0.16
(1,4176)	1:34:A:THR:HG22	1:33:A:ILE:HA	12	0.16
(1,4176)	1:34:A:THR:HG23	1:33:A:ILE:HA	12	0.16
(1,4170)	1:144:A:ILE:H	1:109:A:ARG:HG2	10	0.16
(1,4150)	1:121:A:GLU:H	1:122:A:GLY:H	3	0.16
(1,4150)	1:121:A:GLU:H	1:122:A:GLY:H	16	0.16
(1,4107)	1:79:A:GLN:H	1:72:A:ILE:HG12	10	0.16
(1,4106)	1:96:A:THR:H	1:81:A:TYR:HA	2	0.16
(1,4095)	1:162:A:PRO:HA	1:58:A:PRO:HG2	6	0.16
(1,4095)	1:162:A:PRO:HA	1:58:A:PRO:HG2	8	0.16
(1,4080)	1:204:A:LYS:HB3	1:207:A:ARG:H	5	0.16
(1,4026)	1:86:A:ARG:HA	1:87:A:ILE:HG21	18	0.16
(1,4026)	1:86:A:ARG:HA	1:87:A:ILE:HG22	18	0.16
(1,4026)	1:86:A:ARG:HA	1:87:A:ILE:HG23	18	0.16
(1,4005)	1:34:A:THR:H	1:196:A:ILE:HD11	4	0.16
(1,4005)	1:34:A:THR:H	1:196:A:ILE:HD12	4	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4005)	1:34:A:THR:H	1:196:A:ILE:HD13	4	0.16
(1,4002)	1:105:A:SER:HB3	1:183:A:ILE:HD11	20	0.16
(1,4002)	1:105:A:SER:HB3	1:183:A:ILE:HD12	20	0.16
(1,4002)	1:105:A:SER:HB3	1:183:A:ILE:HD13	20	0.16
(1,3936)	1:183:A:ILE:H	1:179:A:LEU:HB2	1	0.16
(1,3936)	1:183:A:ILE:H	1:179:A:LEU:HB2	12	0.16
(1,3936)	1:183:A:ILE:H	1:179:A:LEU:HB2	16	0.16
(1,3898)	1:166:A:LYS:H	1:156:A:SER:HB3	3	0.16
(1,3882)	1:112:A:ILE:HG21	1:132:A:VAL:HB	4	0.16
(1,3882)	1:112:A:ILE:HG22	1:132:A:VAL:HB	4	0.16
(1,3882)	1:112:A:ILE:HG23	1:132:A:VAL:HB	4	0.16
(1,3872)	1:203:A:ILE:H	1:61:A:LEU:HD21	16	0.16
(1,3872)	1:203:A:ILE:H	1:61:A:LEU:HD22	16	0.16
(1,3872)	1:203:A:ILE:H	1:61:A:LEU:HD23	16	0.16
(1,3862)	1:109:A:ARG:HG2	1:144:A:ILE:HG12	10	0.16
(1,3844)	1:110:A:ASP:H	1:109:A:ARG:HD3	4	0.16
(1,3838)	1:176:A:ARG:HA	1:175:A:MET:HB2	19	0.16
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG11	13	0.16
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG12	13	0.16
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG13	13	0.16
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG11	14	0.16
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG12	14	0.16
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG13	14	0.16
(1,3749)	1:8:A:GLN:H	1:11:A:ALA:H	6	0.16
(1,3749)	1:8:A:GLN:H	1:11:A:ALA:H	13	0.16
(1,3749)	1:8:A:GLN:H	1:11:A:ALA:H	19	0.16
(1,3749)	1:8:A:GLN:H	1:11:A:ALA:H	20	0.16
(1,3717)	1:37:A:SER:H	1:24:A:TRP:HA	11	0.16
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB1	8	0.16
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB2	8	0.16
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB3	8	0.16
(1,3701)	1:180:A:SER:H	1:179:A:LEU:H	9	0.16
(1,3695)	1:61:A:LEU:HD21	1:199:A:ALA:HA	15	0.16
(1,3695)	1:61:A:LEU:HD22	1:199:A:ALA:HA	15	0.16
(1,3695)	1:61:A:LEU:HD23	1:199:A:ALA:HA	15	0.16
(1,3694)	1:80:A:VAL:HG21	1:79:A:GLN:HG3	3	0.16
(1,3694)	1:80:A:VAL:HG22	1:79:A:GLN:HG3	3	0.16
(1,3694)	1:80:A:VAL:HG23	1:79:A:GLN:HG3	3	0.16
(1,3694)	1:80:A:VAL:HG21	1:79:A:GLN:HG3	4	0.16
(1,3694)	1:80:A:VAL:HG22	1:79:A:GLN:HG3	4	0.16
(1,3694)	1:80:A:VAL:HG23	1:79:A:GLN:HG3	4	0.16
(1,3694)	1:80:A:VAL:HG21	1:79:A:GLN:HG3	5	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3694)	1:80:A:VAL:HG22	1:79:A:GLN:HG3	5	0.16
(1,3694)	1:80:A:VAL:HG23	1:79:A:GLN:HG3	5	0.16
(1,3694)	1:80:A:VAL:HG21	1:79:A:GLN:HG3	10	0.16
(1,3694)	1:80:A:VAL:HG22	1:79:A:GLN:HG3	10	0.16
(1,3694)	1:80:A:VAL:HG23	1:79:A:GLN:HG3	10	0.16
(1,3646)	1:54:A:ILE:HD11	1:203:A:ILE:HG21	8	0.16
(1,3646)	1:54:A:ILE:HD11	1:203:A:ILE:HG22	8	0.16
(1,3646)	1:54:A:ILE:HD11	1:203:A:ILE:HG23	8	0.16
(1,3646)	1:54:A:ILE:HD12	1:203:A:ILE:HG21	8	0.16
(1,3646)	1:54:A:ILE:HD12	1:203:A:ILE:HG22	8	0.16
(1,3646)	1:54:A:ILE:HD12	1:203:A:ILE:HG23	8	0.16
(1,3646)	1:54:A:ILE:HD13	1:203:A:ILE:HG21	8	0.16
(1,3646)	1:54:A:ILE:HD13	1:203:A:ILE:HG22	8	0.16
(1,3646)	1:54:A:ILE:HD13	1:203:A:ILE:HG23	8	0.16
(1,3646)	1:54:A:ILE:HD11	1:203:A:ILE:HG21	14	0.16
(1,3646)	1:54:A:ILE:HD11	1:203:A:ILE:HG22	14	0.16
(1,3646)	1:54:A:ILE:HD11	1:203:A:ILE:HG23	14	0.16
(1,3646)	1:54:A:ILE:HD12	1:203:A:ILE:HG21	14	0.16
(1,3646)	1:54:A:ILE:HD12	1:203:A:ILE:HG22	14	0.16
(1,3646)	1:54:A:ILE:HD12	1:203:A:ILE:HG23	14	0.16
(1,3646)	1:54:A:ILE:HD13	1:203:A:ILE:HG21	14	0.16
(1,3646)	1:54:A:ILE:HD13	1:203:A:ILE:HG22	14	0.16
(1,3646)	1:54:A:ILE:HD13	1:203:A:ILE:HG23	14	0.16
(1,3632)	1:137:A:TYR:H	1:136:A:GLU:HG3	6	0.16
(1,3600)	1:82:A:ASN:H	1:83:A:MET:HB2	8	0.16
(1,3599)	1:131:A:SER:H	1:132:A:VAL:HA	18	0.16
(1,3589)	1:186:A:LYS:H	1:106:A:ILE:HD11	18	0.16
(1,3589)	1:186:A:LYS:H	1:106:A:ILE:HD12	18	0.16
(1,3589)	1:186:A:LYS:H	1:106:A:ILE:HD13	18	0.16
(1,3580)	1:137:A:TYR:HB3	1:112:A:ILE:HG12	17	0.16
(1,3572)	1:184:A:ILE:H	1:186:A:LYS:HE3	13	0.16
(1,3566)	1:134:A:PHE:HB3	1:132:A:VAL:HB	11	0.16
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB1	8	0.16
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB2	8	0.16
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB3	8	0.16
(1,3537)	1:28:A:LYS:H	1:28:A:LYS:HD2	17	0.16
(1,3537)	1:28:A:LYS:H	1:28:A:LYS:HD2	20	0.16
(1,3486)	1:36:A:SER:HA	1:24:A:TRP:HA	9	0.16
(1,3470)	1:132:A:VAL:HG21	1:130:A:LYS:H	19	0.16
(1,3470)	1:132:A:VAL:HG22	1:130:A:LYS:H	19	0.16
(1,3470)	1:132:A:VAL:HG23	1:130:A:LYS:H	19	0.16
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG21	12	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG22	12	0.16
(1,3454)	1:60:A:LYS:HB2	1:203:A:ILE:HG23	12	0.16
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG21	2	0.16
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG22	2	0.16
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG23	2	0.16
(1,3420)	1:95:A:HIS:H	1:112:A:ILE:HG21	3	0.16
(1,3420)	1:95:A:HIS:H	1:112:A:ILE:HG22	3	0.16
(1,3420)	1:95:A:HIS:H	1:112:A:ILE:HG23	3	0.16
(1,3420)	1:95:A:HIS:H	1:112:A:ILE:HG21	9	0.16
(1,3420)	1:95:A:HIS:H	1:112:A:ILE:HG22	9	0.16
(1,3420)	1:95:A:HIS:H	1:112:A:ILE:HG23	9	0.16
(1,3420)	1:95:A:HIS:H	1:112:A:ILE:HG21	15	0.16
(1,3420)	1:95:A:HIS:H	1:112:A:ILE:HG22	15	0.16
(1,3420)	1:95:A:HIS:H	1:112:A:ILE:HG23	15	0.16
(1,3379)	1:170:A:PHE:H	1:49:A:ARG:HG3	3	0.16
(1,3360)	1:116:A:TYR:H	1:114:A:LEU:HG	11	0.16
(1,3358)	1:15:A:LEU:HD11	1:12:A:GLN:H	15	0.16
(1,3358)	1:15:A:LEU:HD12	1:12:A:GLN:H	15	0.16
(1,3358)	1:15:A:LEU:HD13	1:12:A:GLN:H	15	0.16
(1,3290)	1:77:A:SER:H	1:99:A:GLN:H	3	0.16
(1,3235)	1:203:A:ILE:HD11	1:199:A:ALA:HB1	18	0.16
(1,3235)	1:203:A:ILE:HD11	1:199:A:ALA:HB2	18	0.16
(1,3235)	1:203:A:ILE:HD11	1:199:A:ALA:HB3	18	0.16
(1,3235)	1:203:A:ILE:HD12	1:199:A:ALA:HB1	18	0.16
(1,3235)	1:203:A:ILE:HD12	1:199:A:ALA:HB2	18	0.16
(1,3235)	1:203:A:ILE:HD12	1:199:A:ALA:HB3	18	0.16
(1,3235)	1:203:A:ILE:HD13	1:199:A:ALA:HB1	18	0.16
(1,3235)	1:203:A:ILE:HD13	1:199:A:ALA:HB2	18	0.16
(1,3235)	1:203:A:ILE:HD13	1:199:A:ALA:HB3	18	0.16
(1,3228)	1:187:A:THR:HG21	1:179:A:LEU:HD11	19	0.16
(1,3228)	1:187:A:THR:HG21	1:179:A:LEU:HD12	19	0.16
(1,3228)	1:187:A:THR:HG21	1:179:A:LEU:HD13	19	0.16
(1,3228)	1:187:A:THR:HG22	1:179:A:LEU:HD11	19	0.16
(1,3228)	1:187:A:THR:HG22	1:179:A:LEU:HD12	19	0.16
(1,3228)	1:187:A:THR:HG22	1:179:A:LEU:HD13	19	0.16
(1,3228)	1:187:A:THR:HG23	1:179:A:LEU:HD11	19	0.16
(1,3228)	1:187:A:THR:HG23	1:179:A:LEU:HD12	19	0.16
(1,3228)	1:187:A:THR:HG23	1:179:A:LEU:HD13	19	0.16
(1,3216)	1:77:A:SER:HB3	1:78:A:LEU:HA	16	0.16
(1,3096)	1:61:A:LEU:HG	1:57:A:SER:HA	1	0.16
(1,3096)	1:61:A:LEU:HG	1:57:A:SER:HA	9	0.16
(1,3091)	1:124:A:MET:H	1:119:A:ARG:HA	5	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3045)	1:136:A:GLU:H	1:137:A:TYR:HB2	20	0.16
(1,3027)	1:26:A:VAL:H	1:26:A:VAL:HG21	13	0.16
(1,3027)	1:26:A:VAL:H	1:26:A:VAL:HG22	13	0.16
(1,3027)	1:26:A:VAL:H	1:26:A:VAL:HG23	13	0.16
(1,2998)	1:28:A:LYS:H	1:26:A:VAL:HB	13	0.16
(1,2991)	1:143:A:TYR:H	1:144:A:ILE:HG21	11	0.16
(1,2991)	1:143:A:TYR:H	1:144:A:ILE:HG22	11	0.16
(1,2991)	1:143:A:TYR:H	1:144:A:ILE:HG23	11	0.16
(1,2991)	1:143:A:TYR:H	1:144:A:ILE:HG21	13	0.16
(1,2991)	1:143:A:TYR:H	1:144:A:ILE:HG22	13	0.16
(1,2991)	1:143:A:TYR:H	1:144:A:ILE:HG23	13	0.16
(1,2984)	1:166:A:LYS:HG2	1:51:A:GLU:HG2	20	0.16
(1,2966)	1:17:A:TYR:H	1:15:A:LEU:HG	4	0.16
(1,2966)	1:17:A:TYR:H	1:15:A:LEU:HG	20	0.16
(1,2909)	1:158:A:MET:HA	1:166:A:LYS:HB2	15	0.16
(1,2834)	1:207:A:ARG:H	1:207:A:ARG:HG3	19	0.16
(1,2832)	1:126:A:ILE:H	1:154:A:VAL:HB	3	0.16
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG21	11	0.16
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG22	11	0.16
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG23	11	0.16
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG21	11	0.16
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG22	11	0.16
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG23	11	0.16
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG21	11	0.16
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG22	11	0.16
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG23	11	0.16
(1,2818)	1:60:A:LYS:H	1:60:A:LYS:HD3	14	0.16
(1,2762)	1:197:A:LEU:H	1:200:A:LYS:H	15	0.16
(1,2762)	1:197:A:LEU:H	1:200:A:LYS:H	17	0.16
(1,2742)	1:4:A:LYS:H	1:2:A:ASP:HA	12	0.16
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB1	11	0.16
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB2	11	0.16
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB3	11	0.16
(1,2650)	1:168:A:VAL:H	1:154:A:VAL:HB	8	0.16
(1,2649)	1:54:A:ILE:HG13	1:200:A:LYS:H	3	0.16
(1,2649)	1:54:A:ILE:HG13	1:200:A:LYS:H	12	0.16
(1,2649)	1:54:A:ILE:HG13	1:200:A:LYS:H	19	0.16
(1,2606)	1:159:A:GLU:HA	1:158:A:MET:HB3	4	0.16
(1,2545)	1:84:A:VAL:H	1:95:A:HIS:HA	4	0.16
(1,2545)	1:84:A:VAL:H	1:95:A:HIS:HA	16	0.16
(1,2545)	1:84:A:VAL:H	1:95:A:HIS:HA	20	0.16
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD21	9	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD22	9	0.16
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD23	9	0.16
(1,2520)	1:27:A:VAL:H	1:28:A:LYS:HA	13	0.16
(1,2516)	1:137:A:TYR:H	1:112:A:ILE:HD11	1	0.16
(1,2516)	1:137:A:TYR:H	1:112:A:ILE:HD12	1	0.16
(1,2516)	1:137:A:TYR:H	1:112:A:ILE:HD13	1	0.16
(1,2471)	1:154:A:VAL:HG11	1:124:A:MET:HB3	13	0.16
(1,2471)	1:154:A:VAL:HG12	1:124:A:MET:HB3	13	0.16
(1,2471)	1:154:A:VAL:HG13	1:124:A:MET:HB3	13	0.16
(1,2471)	1:154:A:VAL:HG11	1:124:A:MET:HB3	19	0.16
(1,2471)	1:154:A:VAL:HG12	1:124:A:MET:HB3	19	0.16
(1,2471)	1:154:A:VAL:HG13	1:124:A:MET:HB3	19	0.16
(1,2471)	1:154:A:VAL:HG11	1:124:A:MET:HB3	20	0.16
(1,2471)	1:154:A:VAL:HG12	1:124:A:MET:HB3	20	0.16
(1,2471)	1:154:A:VAL:HG13	1:124:A:MET:HB3	20	0.16
(1,2439)	1:202:A:GLY:H	1:198:A:ASN:HB3	14	0.16
(1,2439)	1:202:A:GLY:H	1:198:A:ASN:HB3	20	0.16
(1,2437)	1:175:A:MET:HB3	1:179:A:LEU:HD21	8	0.16
(1,2437)	1:175:A:MET:HB3	1:179:A:LEU:HD22	8	0.16
(1,2437)	1:175:A:MET:HB3	1:179:A:LEU:HD23	8	0.16
(1,2431)	1:121:A:GLU:HG3	1:121:A:GLU:H	5	0.16
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB1	18	0.16
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB2	18	0.16
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB3	18	0.16
(1,2370)	1:155:A:CYS:H	1:126:A:ILE:HG21	3	0.16
(1,2370)	1:155:A:CYS:H	1:126:A:ILE:HG22	3	0.16
(1,2370)	1:155:A:CYS:H	1:126:A:ILE:HG23	3	0.16
(1,2294)	1:153:A:PHE:H	1:154:A:VAL:HB	16	0.16
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG11	1	0.16
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG12	1	0.16
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG13	1	0.16
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG11	1	0.16
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG12	1	0.16
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG13	1	0.16
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG11	1	0.16
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG12	1	0.16
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG13	1	0.16
(1,2252)	1:6:A:ILE:H	1:8:A:GLN:HG3	3	0.16
(1,2252)	1:6:A:ILE:H	1:8:A:GLN:HG3	4	0.16
(1,2250)	1:102:A:ALA:HB1	1:183:A:ILE:HD11	20	0.16
(1,2250)	1:102:A:ALA:HB1	1:183:A:ILE:HD12	20	0.16
(1,2250)	1:102:A:ALA:HB1	1:183:A:ILE:HD13	20	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2250)	1:102:A:ALA:HB2	1:183:A:ILE:HD11	20	0.16
(1,2250)	1:102:A:ALA:HB2	1:183:A:ILE:HD12	20	0.16
(1,2250)	1:102:A:ALA:HB2	1:183:A:ILE:HD13	20	0.16
(1,2250)	1:102:A:ALA:HB3	1:183:A:ILE:HD11	20	0.16
(1,2250)	1:102:A:ALA:HB3	1:183:A:ILE:HD12	20	0.16
(1,2250)	1:102:A:ALA:HB3	1:183:A:ILE:HD13	20	0.16
(1,2144)	1:170:A:PHE:H	1:169:A:MET:H	3	0.16
(1,2137)	1:198:A:ASN:H	1:196:A:ILE:HA	18	0.16
(1,2089)	1:42:A:LYS:H	1:42:A:LYS:HG3	18	0.16
(1,2055)	1:176:A:ARG:H	1:174:A:GLU:HG2	3	0.16
(1,2043)	1:65:A:LEU:HD11	1:67:A:GLN:H	7	0.16
(1,2043)	1:65:A:LEU:HD12	1:67:A:GLN:H	7	0.16
(1,2043)	1:65:A:LEU:HD13	1:67:A:GLN:H	7	0.16
(1,2030)	1:28:A:LYS:H	1:34:A:THR:HA	5	0.16
(1,1988)	1:83:A:MET:HG3	1:68:A:THR:HG21	15	0.16
(1,1988)	1:83:A:MET:HG3	1:68:A:THR:HG22	15	0.16
(1,1988)	1:83:A:MET:HG3	1:68:A:THR:HG23	15	0.16
(1,1958)	1:201:A:ASP:H	1:199:A:ALA:HB1	8	0.16
(1,1958)	1:201:A:ASP:H	1:199:A:ALA:HB2	8	0.16
(1,1958)	1:201:A:ASP:H	1:199:A:ALA:HB3	8	0.16
(1,1937)	1:176:A:ARG:H	1:174:A:GLU:HA	18	0.16
(1,1924)	1:6:A:ILE:HD11	1:5:A:ALA:HA	5	0.16
(1,1924)	1:6:A:ILE:HD12	1:5:A:ALA:HA	5	0.16
(1,1924)	1:6:A:ILE:HD13	1:5:A:ALA:HA	5	0.16
(1,1924)	1:6:A:ILE:HD11	1:5:A:ALA:HA	8	0.16
(1,1924)	1:6:A:ILE:HD12	1:5:A:ALA:HA	8	0.16
(1,1924)	1:6:A:ILE:HD13	1:5:A:ALA:HA	8	0.16
(1,1891)	1:66:A:TYR:H	1:62:A:SER:HA	17	0.16
(1,1877)	1:102:A:ALA:HB1	1:179:A:LEU:HB3	20	0.16
(1,1877)	1:102:A:ALA:HB2	1:179:A:LEU:HB3	20	0.16
(1,1877)	1:102:A:ALA:HB3	1:179:A:LEU:HB3	20	0.16
(1,1869)	1:65:A:LEU:H	1:64:A:PHE:HZ	16	0.16
(1,1816)	1:204:A:LYS:H	1:204:A:LYS:HG3	17	0.16
(1,1809)	1:2:A:ASP:HB2	1:5:A:ALA:HB1	8	0.16
(1,1809)	1:2:A:ASP:HB2	1:5:A:ALA:HB2	8	0.16
(1,1809)	1:2:A:ASP:HB2	1:5:A:ALA:HB3	8	0.16
(1,1804)	1:165:A:SER:H	1:55:A:PRO:HD3	12	0.16
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD11	8	0.16
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD12	8	0.16
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD13	8	0.16
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD11	8	0.16
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD12	8	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD13	8	0.16
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD11	8	0.16
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD12	8	0.16
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD13	8	0.16
(1,1689)	1:173:A:THR:HA	1:171:A:VAL:HG21	3	0.16
(1,1689)	1:173:A:THR:HA	1:171:A:VAL:HG22	3	0.16
(1,1689)	1:173:A:THR:HA	1:171:A:VAL:HG23	3	0.16
(1,1589)	1:190:A:SER:HB3	1:102:A:ALA:HB1	2	0.16
(1,1589)	1:190:A:SER:HB3	1:102:A:ALA:HB2	2	0.16
(1,1589)	1:190:A:SER:HB3	1:102:A:ALA:HB3	2	0.16
(1,1585)	1:184:A:ILE:HG21	1:188:A:MET:HE1	19	0.16
(1,1585)	1:184:A:ILE:HG21	1:188:A:MET:HE2	19	0.16
(1,1585)	1:184:A:ILE:HG21	1:188:A:MET:HE3	19	0.16
(1,1585)	1:184:A:ILE:HG22	1:188:A:MET:HE1	19	0.16
(1,1585)	1:184:A:ILE:HG22	1:188:A:MET:HE2	19	0.16
(1,1585)	1:184:A:ILE:HG22	1:188:A:MET:HE3	19	0.16
(1,1585)	1:184:A:ILE:HG23	1:188:A:MET:HE1	19	0.16
(1,1585)	1:184:A:ILE:HG23	1:188:A:MET:HE2	19	0.16
(1,1585)	1:184:A:ILE:HG23	1:188:A:MET:HE3	19	0.16
(1,1570)	1:175:A:MET:H	1:174:A:GLU:HG3	20	0.16
(1,1556)	1:160:A:GLU:H	1:159:A:GLU:HB2	12	0.16
(1,1438)	1:192:A:LEU:HG	1:188:A:MET:HB3	19	0.16
(1,1431)	1:203:A:ILE:HD11	1:60:A:LYS:HD3	15	0.16
(1,1431)	1:203:A:ILE:HD12	1:60:A:LYS:HD3	15	0.16
(1,1431)	1:203:A:ILE:HD13	1:60:A:LYS:HD3	15	0.16
(1,1405)	1:42:A:LYS:HB3	1:43:A:PHE:HB2	15	0.16
(1,1381)	1:174:A:GLU:H	1:176:A:ARG:H	10	0.16
(1,1305)	1:160:A:GLU:H	1:159:A:GLU:HB2	12	0.16
(1,1302)	1:198:A:ASN:H	1:76:A:LYS:HG3	9	0.16
(1,1259)	1:25:A:LYS:H	1:24:A:TRP:HE1	7	0.16
(1,1259)	1:25:A:LYS:H	1:24:A:TRP:HE1	12	0.16
(1,1253)	1:63:A:ASP:H	1:62:A:SER:HB3	6	0.16
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB1	7	0.16
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB2	7	0.16
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB3	7	0.16
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB1	11	0.16
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB2	11	0.16
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB3	11	0.16
(1,1174)	1:126:A:ILE:HD11	1:152:A:GLY:H	7	0.16
(1,1174)	1:126:A:ILE:HD12	1:152:A:GLY:H	7	0.16
(1,1174)	1:126:A:ILE:HD13	1:152:A:GLY:H	7	0.16
(1,1171)	1:76:A:LYS:HD3	1:76:A:LYS:HA	6	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1130)	1:101:A:PHE:H	1:100:A:SER:HB3	13	0.16
(1,1123)	1:193:A:VAL:H	1:191:A:ASN:HA	6	0.16
(1,1078)	1:199:A:ALA:HB1	1:203:A:ILE:HG21	17	0.16
(1,1078)	1:199:A:ALA:HB1	1:203:A:ILE:HG22	17	0.16
(1,1078)	1:199:A:ALA:HB1	1:203:A:ILE:HG23	17	0.16
(1,1078)	1:199:A:ALA:HB2	1:203:A:ILE:HG21	17	0.16
(1,1078)	1:199:A:ALA:HB2	1:203:A:ILE:HG22	17	0.16
(1,1078)	1:199:A:ALA:HB2	1:203:A:ILE:HG23	17	0.16
(1,1078)	1:199:A:ALA:HB3	1:203:A:ILE:HG21	17	0.16
(1,1078)	1:199:A:ALA:HB3	1:203:A:ILE:HG22	17	0.16
(1,1078)	1:199:A:ALA:HB3	1:203:A:ILE:HG23	17	0.16
(1,1033)	1:144:A:ILE:H	1:109:A:ARG:HD3	5	0.16
(1,993)	1:60:A:LYS:HG3	1:63:A:ASP:HB2	20	0.16
(1,956)	1:15:A:LEU:H	1:154:A:VAL:HG11	3	0.16
(1,956)	1:15:A:LEU:H	1:154:A:VAL:HG12	3	0.16
(1,956)	1:15:A:LEU:H	1:154:A:VAL:HG13	3	0.16
(1,955)	1:196:A:ILE:HD11	1:167:A:LEU:HG	1	0.16
(1,955)	1:196:A:ILE:HD12	1:167:A:LEU:HG	1	0.16
(1,955)	1:196:A:ILE:HD13	1:167:A:LEU:HG	1	0.16
(1,955)	1:196:A:ILE:HD11	1:167:A:LEU:HG	13	0.16
(1,955)	1:196:A:ILE:HD12	1:167:A:LEU:HG	13	0.16
(1,955)	1:196:A:ILE:HD13	1:167:A:LEU:HG	13	0.16
(1,934)	1:184:A:ILE:H	1:187:A:THR:HG21	1	0.16
(1,934)	1:184:A:ILE:H	1:187:A:THR:HG22	1	0.16
(1,934)	1:184:A:ILE:H	1:187:A:THR:HG23	1	0.16
(1,923)	1:196:A:ILE:HG21	1:193:A:VAL:HB	16	0.16
(1,923)	1:196:A:ILE:HG22	1:193:A:VAL:HB	16	0.16
(1,923)	1:196:A:ILE:HG23	1:193:A:VAL:HB	16	0.16
(1,906)	1:98:A:THR:HG21	1:96:A:THR:HG21	20	0.16
(1,906)	1:98:A:THR:HG21	1:96:A:THR:HG22	20	0.16
(1,906)	1:98:A:THR:HG21	1:96:A:THR:HG23	20	0.16
(1,906)	1:98:A:THR:HG22	1:96:A:THR:HG21	20	0.16
(1,906)	1:98:A:THR:HG22	1:96:A:THR:HG22	20	0.16
(1,906)	1:98:A:THR:HG22	1:96:A:THR:HG23	20	0.16
(1,906)	1:98:A:THR:HG23	1:96:A:THR:HG21	20	0.16
(1,906)	1:98:A:THR:HG23	1:96:A:THR:HG22	20	0.16
(1,906)	1:98:A:THR:HG23	1:96:A:THR:HG23	20	0.16
(1,903)	1:194:A:ASN:HA	1:196:A:ILE:H	4	0.16
(1,903)	1:194:A:ASN:HA	1:196:A:ILE:H	9	0.16
(1,903)	1:194:A:ASN:HA	1:196:A:ILE:H	14	0.16
(1,895)	1:71:A:ARG:H	1:69:A:GLY:HA3	5	0.16
(1,879)	1:121:A:GLU:H	1:119:A:ARG:H	4	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,879)	1:121:A:GLU:H	1:119:A:ARG:H	8	0.16
(1,879)	1:121:A:GLU:H	1:119:A:ARG:H	13	0.16
(1,879)	1:121:A:GLU:H	1:119:A:ARG:H	15	0.16
(1,879)	1:121:A:GLU:H	1:119:A:ARG:H	17	0.16
(1,878)	1:180:A:SER:H	1:184:A:ILE:HB	8	0.16
(1,878)	1:180:A:SER:H	1:184:A:ILE:HB	17	0.16
(1,878)	1:180:A:SER:H	1:184:A:ILE:HB	19	0.16
(1,858)	1:101:A:PHE:H	1:102:A:ALA:H	2	0.16
(1,827)	1:151:A:CYS:H	1:14:A:VAL:HB	16	0.16
(1,816)	1:162:A:PRO:HA	1:158:A:MET:H	7	0.16
(1,816)	1:162:A:PRO:HA	1:158:A:MET:H	20	0.16
(1,812)	1:205:A:ALA:H	1:208:A:THR:H	20	0.16
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG11	1	0.16
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG12	1	0.16
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG13	1	0.16
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG11	5	0.16
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG12	5	0.16
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG13	5	0.16
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG11	11	0.16
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG12	11	0.16
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG13	11	0.16
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG11	15	0.16
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG12	15	0.16
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG13	15	0.16
(1,756)	1:26:A:VAL:HG21	1:37:A:SER:H	1	0.16
(1,756)	1:26:A:VAL:HG22	1:37:A:SER:H	1	0.16
(1,756)	1:26:A:VAL:HG23	1:37:A:SER:H	1	0.16
(1,756)	1:26:A:VAL:HG21	1:37:A:SER:H	15	0.16
(1,756)	1:26:A:VAL:HG22	1:37:A:SER:H	15	0.16
(1,756)	1:26:A:VAL:HG23	1:37:A:SER:H	15	0.16
(1,741)	1:147:A:TYR:H	1:144:A:ILE:HG12	12	0.16
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG21	18	0.16
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG22	18	0.16
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG23	18	0.16
(1,710)	1:150:A:PRO:HB2	1:14:A:VAL:HG21	14	0.16
(1,710)	1:150:A:PRO:HB2	1:14:A:VAL:HG22	14	0.16
(1,710)	1:150:A:PRO:HB2	1:14:A:VAL:HG23	14	0.16
(1,710)	1:150:A:PRO:HB2	1:14:A:VAL:HG21	19	0.16
(1,710)	1:150:A:PRO:HB2	1:14:A:VAL:HG22	19	0.16
(1,710)	1:150:A:PRO:HB2	1:14:A:VAL:HG23	19	0.16
(1,704)	1:109:A:ARG:H	1:97:A:ILE:HG21	12	0.16
(1,704)	1:109:A:ARG:H	1:97:A:ILE:HG22	12	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,704)	1:109:A:ARG:H	1:97:A:ILE:HG23	12	0.16
(1,665)	1:167:A:LEU:H	1:54:A:ILE:HB	1	0.16
(1,665)	1:167:A:LEU:H	1:54:A:ILE:HB	14	0.16
(1,665)	1:167:A:LEU:H	1:54:A:ILE:HB	20	0.16
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD11	13	0.16
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD12	13	0.16
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD13	13	0.16
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD11	13	0.16
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD12	13	0.16
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD13	13	0.16
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD11	13	0.16
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD12	13	0.16
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD13	13	0.16
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD11	20	0.16
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD12	20	0.16
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD13	20	0.16
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD11	20	0.16
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD12	20	0.16
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD13	20	0.16
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD11	20	0.16
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD12	20	0.16
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD13	20	0.16
(1,656)	1:125:A:ASN:H	1:126:A:ILE:HA	15	0.16
(1,647)	1:37:A:SER:H	1:25:A:LYS:HB2	11	0.16
(1,647)	1:37:A:SER:H	1:25:A:LYS:HB2	19	0.16
(1,639)	1:193:A:VAL:H	1:192:A:LEU:HG	9	0.16
(1,620)	1:101:A:PHE:H	1:98:A:THR:HG21	13	0.16
(1,620)	1:101:A:PHE:H	1:98:A:THR:HG22	13	0.16
(1,620)	1:101:A:PHE:H	1:98:A:THR:HG23	13	0.16
(1,558)	1:34:A:THR:HG21	1:26:A:VAL:H	8	0.16
(1,558)	1:34:A:THR:HG22	1:26:A:VAL:H	8	0.16
(1,558)	1:34:A:THR:HG23	1:26:A:VAL:H	8	0.16
(1,558)	1:34:A:THR:HG21	1:26:A:VAL:H	14	0.16
(1,558)	1:34:A:THR:HG22	1:26:A:VAL:H	14	0.16
(1,558)	1:34:A:THR:HG23	1:26:A:VAL:H	14	0.16
(1,539)	1:206:A:HIS:H	1:202:A:GLY:HA3	1	0.16
(1,534)	1:71:A:ARG:HD2	1:65:A:LEU:HA	2	0.16
(1,532)	1:194:A:ASN:HB3	1:76:A:LYS:HG3	17	0.16
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD11	13	0.16
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD12	13	0.16
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD13	13	0.16
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD11	19	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD12	19	0.16
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD13	19	0.16
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD21	1	0.16
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD22	1	0.16
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD23	1	0.16
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG11	1	0.16
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG12	1	0.16
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG13	1	0.16
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG11	1	0.16
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG12	1	0.16
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG13	1	0.16
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG11	1	0.16
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG12	1	0.16
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG13	1	0.16
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG11	4	0.16
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG12	4	0.16
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG13	4	0.16
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG11	4	0.16
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG12	4	0.16
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG13	4	0.16
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG11	4	0.16
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG12	4	0.16
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG13	4	0.16
(1,268)	1:43:A:PHE:H	1:44:A:HIS:HA	19	0.16
(1,256)	1:144:A:ILE:H	1:109:A:ARG:HB3	4	0.16
(1,256)	1:144:A:ILE:H	1:109:A:ARG:HB3	19	0.16
(1,251)	1:61:A:LEU:HG	1:203:A:ILE:HG21	16	0.16
(1,251)	1:61:A:LEU:HG	1:203:A:ILE:HG22	16	0.16
(1,251)	1:61:A:LEU:HG	1:203:A:ILE:HG23	16	0.16
(1,201)	1:91:A:THR:H	1:89:A:SER:HB2	12	0.16
(1,199)	1:10:A:THR:HG21	1:8:A:GLN:H	1	0.16
(1,199)	1:10:A:THR:HG22	1:8:A:GLN:H	1	0.16
(1,199)	1:10:A:THR:HG23	1:8:A:GLN:H	1	0.16
(1,199)	1:10:A:THR:HG21	1:8:A:GLN:H	3	0.16
(1,199)	1:10:A:THR:HG22	1:8:A:GLN:H	3	0.16
(1,199)	1:10:A:THR:HG23	1:8:A:GLN:H	3	0.16
(1,199)	1:10:A:THR:HG21	1:8:A:GLN:H	5	0.16
(1,199)	1:10:A:THR:HG22	1:8:A:GLN:H	5	0.16
(1,199)	1:10:A:THR:HG23	1:8:A:GLN:H	5	0.16
(1,162)	1:167:A:LEU:H	1:168:A:VAL:H	12	0.16
(1,162)	1:167:A:LEU:H	1:168:A:VAL:H	13	0.16
(1,162)	1:167:A:LEU:H	1:168:A:VAL:H	14	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,133)	1:88:A:ASP:H	1:89:A:SER:HA	10	0.16
(1,104)	1:19:A:ARG:H	1:20:A:ASP:HB3	6	0.16
(1,99)	1:7:A:ALA:HB1	1:6:A:ILE:HB	16	0.16
(1,99)	1:7:A:ALA:HB2	1:6:A:ILE:HB	16	0.16
(1,99)	1:7:A:ALA:HB3	1:6:A:ILE:HB	16	0.16
(1,23)	1:98:A:THR:HG21	1:110:A:ASP:H	2	0.16
(1,23)	1:98:A:THR:HG22	1:110:A:ASP:H	2	0.16
(1,23)	1:98:A:THR:HG23	1:110:A:ASP:H	2	0.16
(1,23)	1:98:A:THR:HG21	1:110:A:ASP:H	8	0.16
(1,23)	1:98:A:THR:HG22	1:110:A:ASP:H	8	0.16
(1,23)	1:98:A:THR:HG23	1:110:A:ASP:H	8	0.16
(2,119)	1:170:A:PHE:O	1:152:A:GLY:N	14	0.15
(2,118)	1:152:A:GLY:N	1:170:A:PHE:O	14	0.15
(1,4387)	1:203:A:ILE:HD11	1:56:A:GLU:H	17	0.15
(1,4387)	1:203:A:ILE:HD12	1:56:A:GLU:H	17	0.15
(1,4387)	1:203:A:ILE:HD13	1:56:A:GLU:H	17	0.15
(1,4372)	1:206:A:HIS:H	1:203:A:ILE:H	9	0.15
(1,4359)	1:72:A:ILE:HA	1:76:A:LYS:H	15	0.15
(1,4358)	1:71:A:ARG:H	1:74:A:TRP:HD1	14	0.15
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD11	17	0.15
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD12	17	0.15
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD13	17	0.15
(1,4291)	1:91:A:THR:HG21	1:93:A:ILE:HG21	2	0.15
(1,4291)	1:91:A:THR:HG21	1:93:A:ILE:HG22	2	0.15
(1,4291)	1:91:A:THR:HG21	1:93:A:ILE:HG23	2	0.15
(1,4291)	1:91:A:THR:HG22	1:93:A:ILE:HG21	2	0.15
(1,4291)	1:91:A:THR:HG22	1:93:A:ILE:HG22	2	0.15
(1,4291)	1:91:A:THR:HG22	1:93:A:ILE:HG23	2	0.15
(1,4291)	1:91:A:THR:HG23	1:93:A:ILE:HG21	2	0.15
(1,4291)	1:91:A:THR:HG23	1:93:A:ILE:HG22	2	0.15
(1,4291)	1:91:A:THR:HG23	1:93:A:ILE:HG23	2	0.15
(1,4291)	1:91:A:THR:HG21	1:93:A:ILE:HG21	3	0.15
(1,4291)	1:91:A:THR:HG21	1:93:A:ILE:HG22	3	0.15
(1,4291)	1:91:A:THR:HG21	1:93:A:ILE:HG23	3	0.15
(1,4291)	1:91:A:THR:HG22	1:93:A:ILE:HG21	3	0.15
(1,4291)	1:91:A:THR:HG22	1:93:A:ILE:HG22	3	0.15
(1,4291)	1:91:A:THR:HG22	1:93:A:ILE:HG23	3	0.15
(1,4291)	1:91:A:THR:HG23	1:93:A:ILE:HG21	3	0.15
(1,4291)	1:91:A:THR:HG23	1:93:A:ILE:HG22	3	0.15
(1,4291)	1:91:A:THR:HG23	1:93:A:ILE:HG23	3	0.15
(1,4291)	1:91:A:THR:HG21	1:93:A:ILE:HG21	5	0.15
(1,4291)	1:91:A:THR:HG21	1:93:A:ILE:HG22	5	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4291)	1:91:A:THR:HG21	1:93:A:ILE:HG23	5	0.15
(1,4291)	1:91:A:THR:HG22	1:93:A:ILE:HG21	5	0.15
(1,4291)	1:91:A:THR:HG22	1:93:A:ILE:HG22	5	0.15
(1,4291)	1:91:A:THR:HG22	1:93:A:ILE:HG23	5	0.15
(1,4291)	1:91:A:THR:HG23	1:93:A:ILE:HG21	5	0.15
(1,4291)	1:91:A:THR:HG23	1:93:A:ILE:HG22	5	0.15
(1,4291)	1:91:A:THR:HG23	1:93:A:ILE:HG23	5	0.15
(1,4259)	1:140:A:SER:H	1:141:A:SER:HA	18	0.15
(1,4234)	1:91:A:THR:H	1:86:A:ARG:HA	9	0.15
(1,4193)	1:24:A:TRP:HZ3	1:49:A:ARG:H	19	0.15
(1,4180)	1:81:A:TYR:H	1:68:A:THR:HA	16	0.15
(1,4176)	1:34:A:THR:HG21	1:33:A:ILE:HA	6	0.15
(1,4176)	1:34:A:THR:HG22	1:33:A:ILE:HA	6	0.15
(1,4176)	1:34:A:THR:HG23	1:33:A:ILE:HA	6	0.15
(1,4176)	1:34:A:THR:HG21	1:33:A:ILE:HA	7	0.15
(1,4176)	1:34:A:THR:HG22	1:33:A:ILE:HA	7	0.15
(1,4176)	1:34:A:THR:HG23	1:33:A:ILE:HA	7	0.15
(1,4176)	1:34:A:THR:HG21	1:33:A:ILE:HA	8	0.15
(1,4176)	1:34:A:THR:HG22	1:33:A:ILE:HA	8	0.15
(1,4176)	1:34:A:THR:HG23	1:33:A:ILE:HA	8	0.15
(1,4150)	1:121:A:GLU:H	1:122:A:GLY:H	6	0.15
(1,4150)	1:121:A:GLU:H	1:122:A:GLY:H	14	0.15
(1,4133)	1:28:A:LYS:H	1:37:A:SER:H	13	0.15
(1,4133)	1:28:A:LYS:H	1:37:A:SER:H	18	0.15
(1,4112)	1:40:A:SER:H	1:47:A:LEU:HA	16	0.15
(1,4106)	1:96:A:THR:H	1:81:A:TYR:HA	7	0.15
(1,4095)	1:162:A:PRO:HA	1:58:A:PRO:HG2	15	0.15
(1,4087)	1:207:A:ARG:H	1:204:A:LYS:HB3	9	0.15
(1,4074)	1:186:A:LYS:H	1:185:A:GLU:HG3	20	0.15
(1,4061)	1:179:A:LEU:H	1:179:A:LEU:HD21	3	0.15
(1,4061)	1:179:A:LEU:H	1:179:A:LEU:HD22	3	0.15
(1,4061)	1:179:A:LEU:H	1:179:A:LEU:HD23	3	0.15
(1,4046)	1:183:A:ILE:H	1:184:A:ILE:HB	1	0.15
(1,4046)	1:183:A:ILE:H	1:184:A:ILE:HB	20	0.15
(1,4015)	1:27:A:VAL:H	1:36:A:SER:HB2	13	0.15
(1,4005)	1:34:A:THR:H	1:196:A:ILE:HD11	5	0.15
(1,4005)	1:34:A:THR:H	1:196:A:ILE:HD12	5	0.15
(1,4005)	1:34:A:THR:H	1:196:A:ILE:HD13	5	0.15
(1,3936)	1:183:A:ILE:H	1:179:A:LEU:HB2	10	0.15
(1,3881)	1:123:A:ASN:HA	1:157:A:PRO:HG3	17	0.15
(1,3793)	1:137:A:TYR:H	1:134:A:PHE:HZ	7	0.15
(1,3793)	1:137:A:TYR:H	1:134:A:PHE:HZ	15	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3759)	1:48:A:TYR:H	1:170:A:PHE:HB3	1	0.15
(1,3749)	1:8:A:GLN:H	1:11:A:ALA:H	7	0.15
(1,3732)	1:153:A:PHE:H	1:14:A:VAL:HB	19	0.15
(1,3717)	1:37:A:SER:H	1:24:A:TRP:HA	4	0.15
(1,3717)	1:37:A:SER:H	1:24:A:TRP:HA	20	0.15
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB1	15	0.15
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB2	15	0.15
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB3	15	0.15
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB1	17	0.15
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB2	17	0.15
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB3	17	0.15
(1,3701)	1:180:A:SER:H	1:179:A:LEU:H	17	0.15
(1,3694)	1:80:A:VAL:HG21	1:79:A:GLN:HG3	1	0.15
(1,3694)	1:80:A:VAL:HG22	1:79:A:GLN:HG3	1	0.15
(1,3694)	1:80:A:VAL:HG23	1:79:A:GLN:HG3	1	0.15
(1,3694)	1:80:A:VAL:HG21	1:79:A:GLN:HG3	17	0.15
(1,3694)	1:80:A:VAL:HG22	1:79:A:GLN:HG3	17	0.15
(1,3694)	1:80:A:VAL:HG23	1:79:A:GLN:HG3	17	0.15
(1,3683)	1:50:A:VAL:H	1:168:A:VAL:HA	12	0.15
(1,3635)	1:196:A:ILE:HD11	1:192:A:LEU:HB3	4	0.15
(1,3635)	1:196:A:ILE:HD12	1:192:A:LEU:HB3	4	0.15
(1,3635)	1:196:A:ILE:HD13	1:192:A:LEU:HB3	4	0.15
(1,3589)	1:186:A:LYS:H	1:106:A:ILE:HD11	17	0.15
(1,3589)	1:186:A:LYS:H	1:106:A:ILE:HD12	17	0.15
(1,3589)	1:186:A:LYS:H	1:106:A:ILE:HD13	17	0.15
(1,3580)	1:137:A:TYR:HB3	1:112:A:ILE:HG12	12	0.15
(1,3573)	1:184:A:ILE:H	1:187:A:THR:H	11	0.15
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB1	3	0.15
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB2	3	0.15
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB3	3	0.15
(1,3525)	1:68:A:THR:HG21	1:69:A:GLY:HA3	2	0.15
(1,3525)	1:68:A:THR:HG22	1:69:A:GLY:HA3	2	0.15
(1,3525)	1:68:A:THR:HG23	1:69:A:GLY:HA3	2	0.15
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD11	3	0.15
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD12	3	0.15
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD13	3	0.15
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD11	6	0.15
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD12	6	0.15
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD13	6	0.15
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG21	5	0.15
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG22	5	0.15
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG23	5	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG21	6	0.15
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG22	6	0.15
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG23	6	0.15
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG21	9	0.15
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG22	9	0.15
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG23	9	0.15
(1,3473)	1:1:A:MET:HA	1:4:A:LYS:HB3	19	0.15
(1,3467)	1:99:A:GLN:HA	1:79:A:GLN:HG3	1	0.15
(1,3467)	1:99:A:GLN:HA	1:79:A:GLN:HG3	17	0.15
(1,3463)	1:40:A:SER:H	1:45:A:GLY:HA3	20	0.15
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG21	6	0.15
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG22	6	0.15
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG23	6	0.15
(1,3421)	1:99:A:GLN:H	1:109:A:ARG:H	6	0.15
(1,3421)	1:99:A:GLN:H	1:109:A:ARG:H	19	0.15
(1,3420)	1:95:A:HIS:H	1:112:A:ILE:HG21	8	0.15
(1,3420)	1:95:A:HIS:H	1:112:A:ILE:HG22	8	0.15
(1,3420)	1:95:A:HIS:H	1:112:A:ILE:HG23	8	0.15
(1,3420)	1:95:A:HIS:H	1:112:A:ILE:HG21	17	0.15
(1,3420)	1:95:A:HIS:H	1:112:A:ILE:HG22	17	0.15
(1,3420)	1:95:A:HIS:H	1:112:A:ILE:HG23	17	0.15
(1,3408)	1:120:A:TYR:H	1:118:A:LYS:HA	6	0.15
(1,3408)	1:120:A:TYR:H	1:118:A:LYS:HA	18	0.15
(1,3402)	1:66:A:TYR:H	1:65:A:LEU:HD11	5	0.15
(1,3402)	1:66:A:TYR:H	1:65:A:LEU:HD12	5	0.15
(1,3402)	1:66:A:TYR:H	1:65:A:LEU:HD13	5	0.15
(1,3360)	1:116:A:TYR:H	1:114:A:LEU:HG	1	0.15
(1,3360)	1:116:A:TYR:H	1:114:A:LEU:HG	5	0.15
(1,3360)	1:116:A:TYR:H	1:114:A:LEU:HG	9	0.15
(1,3360)	1:116:A:TYR:H	1:114:A:LEU:HG	15	0.15
(1,3282)	1:61:A:LEU:HD11	1:56:A:GLU:H	4	0.15
(1,3282)	1:61:A:LEU:HD12	1:56:A:GLU:H	4	0.15
(1,3282)	1:61:A:LEU:HD13	1:56:A:GLU:H	4	0.15
(1,3142)	1:114:A:LEU:HD11	1:87:A:ILE:HG21	1	0.15
(1,3142)	1:114:A:LEU:HD11	1:87:A:ILE:HG22	1	0.15
(1,3142)	1:114:A:LEU:HD11	1:87:A:ILE:HG23	1	0.15
(1,3142)	1:114:A:LEU:HD12	1:87:A:ILE:HG21	1	0.15
(1,3142)	1:114:A:LEU:HD12	1:87:A:ILE:HG22	1	0.15
(1,3142)	1:114:A:LEU:HD12	1:87:A:ILE:HG23	1	0.15
(1,3142)	1:114:A:LEU:HD13	1:87:A:ILE:HG21	1	0.15
(1,3142)	1:114:A:LEU:HD13	1:87:A:ILE:HG22	1	0.15
(1,3142)	1:114:A:LEU:HD13	1:87:A:ILE:HG23	1	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3096)	1:61:A:LEU:HG	1:57:A:SER:HA	10	0.15
(1,3045)	1:136:A:GLU:H	1:137:A:TYR:HB2	12	0.15
(1,3027)	1:26:A:VAL:H	1:26:A:VAL:HG21	4	0.15
(1,3027)	1:26:A:VAL:H	1:26:A:VAL:HG22	4	0.15
(1,3027)	1:26:A:VAL:H	1:26:A:VAL:HG23	4	0.15
(1,3026)	1:26:A:VAL:HG21	1:27:A:VAL:HA	8	0.15
(1,3026)	1:26:A:VAL:HG22	1:27:A:VAL:HA	8	0.15
(1,3026)	1:26:A:VAL:HG23	1:27:A:VAL:HA	8	0.15
(1,2966)	1:17:A:TYR:H	1:15:A:LEU:HG	9	0.15
(1,2904)	1:35:A:VAL:H	1:29:A:THR:HG21	9	0.15
(1,2904)	1:35:A:VAL:H	1:29:A:THR:HG22	9	0.15
(1,2904)	1:35:A:VAL:H	1:29:A:THR:HG23	9	0.15
(1,2840)	1:165:A:SER:H	1:166:A:LYS:HA	16	0.15
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG21	16	0.15
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG22	16	0.15
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG23	16	0.15
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG21	16	0.15
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG22	16	0.15
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG23	16	0.15
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG21	16	0.15
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG22	16	0.15
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG23	16	0.15
(1,2777)	1:73:A:THR:HG21	1:202:A:GLY:HA2	2	0.15
(1,2777)	1:73:A:THR:HG22	1:202:A:GLY:HA2	2	0.15
(1,2777)	1:73:A:THR:HG23	1:202:A:GLY:HA2	2	0.15
(1,2777)	1:73:A:THR:HG21	1:202:A:GLY:HA2	13	0.15
(1,2777)	1:73:A:THR:HG22	1:202:A:GLY:HA2	13	0.15
(1,2777)	1:73:A:THR:HG23	1:202:A:GLY:HA2	13	0.15
(1,2762)	1:197:A:LEU:H	1:200:A:LYS:H	14	0.15
(1,2762)	1:197:A:LEU:H	1:200:A:LYS:H	20	0.15
(1,2739)	1:211:A:ARG:HA	1:214:A:PHE:HA	13	0.15
(1,2697)	1:31:A:LYS:H	1:32:A:LYS:HA	8	0.15
(1,2688)	1:79:A:GLN:HB2	1:99:A:GLN:HA	19	0.15
(1,2685)	1:177:A:GLY:H	1:176:A:ARG:HG3	2	0.15
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB1	5	0.15
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB2	5	0.15
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB3	5	0.15
(1,2650)	1:168:A:VAL:H	1:154:A:VAL:HB	12	0.15
(1,2649)	1:54:A:ILE:HG13	1:200:A:LYS:H	16	0.15
(1,2606)	1:159:A:GLU:HA	1:158:A:MET:HB3	9	0.15
(1,2606)	1:159:A:GLU:HA	1:158:A:MET:HB3	19	0.15
(1,2577)	1:94:A:CYS:H	1:112:A:ILE:HD11	5	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2577)	1:94:A:CYS:H	1:112:A:ILE:HD12	5	0.15
(1,2577)	1:94:A:CYS:H	1:112:A:ILE:HD13	5	0.15
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD11	10	0.15
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD12	10	0.15
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD13	10	0.15
(1,2545)	1:84:A:VAL:H	1:95:A:HIS:HA	6	0.15
(1,2545)	1:84:A:VAL:H	1:95:A:HIS:HA	9	0.15
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD21	3	0.15
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD22	3	0.15
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD23	3	0.15
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD21	12	0.15
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD22	12	0.15
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD23	12	0.15
(1,2520)	1:27:A:VAL:H	1:28:A:LYS:HA	5	0.15
(1,2513)	1:60:A:LYS:H	1:61:A:LEU:HD21	19	0.15
(1,2513)	1:60:A:LYS:H	1:61:A:LEU:HD22	19	0.15
(1,2513)	1:60:A:LYS:H	1:61:A:LEU:HD23	19	0.15
(1,2471)	1:154:A:VAL:HG11	1:124:A:MET:HB3	8	0.15
(1,2471)	1:154:A:VAL:HG12	1:124:A:MET:HB3	8	0.15
(1,2471)	1:154:A:VAL:HG13	1:124:A:MET:HB3	8	0.15
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB1	3	0.15
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB2	3	0.15
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB3	3	0.15
(1,2333)	1:53:A:ILE:HG21	1:54:A:ILE:HB	2	0.15
(1,2333)	1:53:A:ILE:HG22	1:54:A:ILE:HB	2	0.15
(1,2333)	1:53:A:ILE:HG23	1:54:A:ILE:HB	2	0.15
(1,2333)	1:53:A:ILE:HG21	1:54:A:ILE:HB	18	0.15
(1,2333)	1:53:A:ILE:HG22	1:54:A:ILE:HB	18	0.15
(1,2333)	1:53:A:ILE:HG23	1:54:A:ILE:HB	18	0.15
(1,2287)	1:43:A:PHE:H	1:41:A:ARG:HB3	13	0.15
(1,2287)	1:43:A:PHE:H	1:41:A:ARG:HB3	20	0.15
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG11	3	0.15
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG12	3	0.15
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG13	3	0.15
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG11	3	0.15
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG12	3	0.15
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG13	3	0.15
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG11	3	0.15
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG12	3	0.15
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG13	3	0.15
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG11	15	0.15
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG12	15	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG13	15	0.15
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG11	15	0.15
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG12	15	0.15
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG13	15	0.15
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG11	15	0.15
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG12	15	0.15
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG13	15	0.15
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD11	2	0.15
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD12	2	0.15
(1,2238)	1:71:A:ARG:H	1:78:A:LEU:HD13	2	0.15
(1,2167)	1:60:A:LYS:HG3	1:61:A:LEU:HD21	12	0.15
(1,2167)	1:60:A:LYS:HG3	1:61:A:LEU:HD22	12	0.15
(1,2167)	1:60:A:LYS:HG3	1:61:A:LEU:HD23	12	0.15
(1,2167)	1:60:A:LYS:HG3	1:61:A:LEU:HD21	18	0.15
(1,2167)	1:60:A:LYS:HG3	1:61:A:LEU:HD22	18	0.15
(1,2167)	1:60:A:LYS:HG3	1:61:A:LEU:HD23	18	0.15
(1,2144)	1:170:A:PHE:H	1:169:A:MET:H	19	0.15
(1,2107)	1:134:A:PHE:H	1:134:A:PHE:HZ	1	0.15
(1,2055)	1:176:A:ARG:H	1:174:A:GLU:HG2	8	0.15
(1,2043)	1:65:A:LEU:HD11	1:67:A:GLN:H	11	0.15
(1,2043)	1:65:A:LEU:HD12	1:67:A:GLN:H	11	0.15
(1,2043)	1:65:A:LEU:HD13	1:67:A:GLN:H	11	0.15
(1,2030)	1:28:A:LYS:H	1:34:A:THR:HA	1	0.15
(1,2030)	1:28:A:LYS:H	1:34:A:THR:HA	7	0.15
(1,2030)	1:28:A:LYS:H	1:34:A:THR:HA	10	0.15
(1,2001)	1:84:A:VAL:H	1:83:A:MET:HB3	8	0.15
(1,1997)	1:33:A:ILE:HG12	1:193:A:VAL:HA	5	0.15
(1,1958)	1:201:A:ASP:H	1:199:A:ALA:HB1	6	0.15
(1,1958)	1:201:A:ASP:H	1:199:A:ALA:HB2	6	0.15
(1,1958)	1:201:A:ASP:H	1:199:A:ALA:HB3	6	0.15
(1,1924)	1:6:A:ILE:HD11	1:5:A:ALA:HA	13	0.15
(1,1924)	1:6:A:ILE:HD12	1:5:A:ALA:HA	13	0.15
(1,1924)	1:6:A:ILE:HD13	1:5:A:ALA:HA	13	0.15
(1,1920)	1:91:A:THR:H	1:92:A:PHE:HA	6	0.15
(1,1869)	1:65:A:LEU:H	1:64:A:PHE:HZ	18	0.15
(1,1804)	1:165:A:SER:H	1:55:A:PRO:HD3	13	0.15
(1,1768)	1:128:A:SER:H	1:152:A:GLY:HA2	10	0.15
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD11	9	0.15
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD12	9	0.15
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD13	9	0.15
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD11	9	0.15
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD12	9	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD13	9	0.15
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD11	9	0.15
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD12	9	0.15
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD13	9	0.15
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD11	15	0.15
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD12	15	0.15
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD13	15	0.15
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD11	15	0.15
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD12	15	0.15
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD13	15	0.15
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD11	15	0.15
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD12	15	0.15
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD13	15	0.15
(1,1683)	1:119:A:ARG:H	1:119:A:ARG:HD2	20	0.15
(1,1585)	1:184:A:ILE:HG21	1:188:A:MET:HE1	7	0.15
(1,1585)	1:184:A:ILE:HG21	1:188:A:MET:HE2	7	0.15
(1,1585)	1:184:A:ILE:HG21	1:188:A:MET:HE3	7	0.15
(1,1585)	1:184:A:ILE:HG22	1:188:A:MET:HE1	7	0.15
(1,1585)	1:184:A:ILE:HG22	1:188:A:MET:HE2	7	0.15
(1,1585)	1:184:A:ILE:HG22	1:188:A:MET:HE3	7	0.15
(1,1585)	1:184:A:ILE:HG23	1:188:A:MET:HE1	7	0.15
(1,1585)	1:184:A:ILE:HG23	1:188:A:MET:HE2	7	0.15
(1,1585)	1:184:A:ILE:HG23	1:188:A:MET:HE3	7	0.15
(1,1583)	1:114:A:LEU:HD21	1:130:A:LYS:HD2	19	0.15
(1,1583)	1:114:A:LEU:HD22	1:130:A:LYS:HD2	19	0.15
(1,1583)	1:114:A:LEU:HD23	1:130:A:LYS:HD2	19	0.15
(1,1580)	1:174:A:GLU:H	1:147:A:TYR:HA	7	0.15
(1,1570)	1:175:A:MET:H	1:174:A:GLU:HG3	4	0.15
(1,1517)	1:113:A:ASP:H	1:94:A:CYS:HB2	14	0.15
(1,1481)	1:132:A:VAL:HG11	1:130:A:LYS:H	13	0.15
(1,1481)	1:132:A:VAL:HG12	1:130:A:LYS:H	13	0.15
(1,1481)	1:132:A:VAL:HG13	1:130:A:LYS:H	13	0.15
(1,1471)	1:201:A:ASP:H	1:203:A:ILE:HB	11	0.15
(1,1471)	1:201:A:ASP:H	1:203:A:ILE:HB	20	0.15
(1,1438)	1:192:A:LEU:HG	1:188:A:MET:HB3	9	0.15
(1,1431)	1:203:A:ILE:HD11	1:60:A:LYS:HD3	7	0.15
(1,1431)	1:203:A:ILE:HD12	1:60:A:LYS:HD3	7	0.15
(1,1431)	1:203:A:ILE:HD13	1:60:A:LYS:HD3	7	0.15
(1,1329)	1:165:A:SER:H	1:57:A:SER:HA	4	0.15
(1,1323)	1:192:A:LEU:HG	1:50:A:VAL:HG11	20	0.15
(1,1323)	1:192:A:LEU:HG	1:50:A:VAL:HG12	20	0.15
(1,1323)	1:192:A:LEU:HG	1:50:A:VAL:HG13	20	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1315)	1:37:A:SER:H	1:49:A:ARG:H	4	0.15
(1,1315)	1:37:A:SER:H	1:49:A:ARG:H	13	0.15
(1,1302)	1:198:A:ASN:H	1:76:A:LYS:HG3	13	0.15
(1,1295)	1:203:A:ILE:HG21	1:204:A:LYS:HB3	10	0.15
(1,1295)	1:203:A:ILE:HG22	1:204:A:LYS:HB3	10	0.15
(1,1295)	1:203:A:ILE:HG23	1:204:A:LYS:HB3	10	0.15
(1,1295)	1:203:A:ILE:HG21	1:204:A:LYS:HB3	13	0.15
(1,1295)	1:203:A:ILE:HG22	1:204:A:LYS:HB3	13	0.15
(1,1295)	1:203:A:ILE:HG23	1:204:A:LYS:HB3	13	0.15
(1,1259)	1:25:A:LYS:H	1:24:A:TRP:HE1	18	0.15
(1,1253)	1:63:A:ASP:H	1:62:A:SER:HB3	3	0.15
(1,1253)	1:63:A:ASP:H	1:62:A:SER:HB3	8	0.15
(1,1252)	1:130:A:LYS:HB3	1:7:A:ALA:HA	13	0.15
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB1	13	0.15
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB2	13	0.15
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB3	13	0.15
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB1	15	0.15
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB2	15	0.15
(1,1231)	1:74:A:TRP:HH2	1:199:A:ALA:HB3	15	0.15
(1,1207)	1:90:A:ASP:H	1:4:A:LYS:HE3	1	0.15
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG21	16	0.15
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG22	16	0.15
(1,1183)	1:36:A:SER:HB2	1:26:A:VAL:HG23	16	0.15
(1,1171)	1:76:A:LYS:HD3	1:76:A:LYS:HA	7	0.15
(1,1171)	1:76:A:LYS:HD3	1:76:A:LYS:HA	8	0.15
(1,1171)	1:76:A:LYS:HD3	1:76:A:LYS:HA	20	0.15
(1,1139)	1:103:A:VAL:H	1:101:A:PHE:HA	2	0.15
(1,1130)	1:101:A:PHE:H	1:100:A:SER:HB3	10	0.15
(1,1082)	1:194:A:ASN:H	1:193:A:VAL:HB	3	0.15
(1,1054)	1:114:A:LEU:H	1:131:A:SER:HB2	9	0.15
(1,1047)	1:203:A:ILE:HG21	1:204:A:LYS:HB2	5	0.15
(1,1047)	1:203:A:ILE:HG22	1:204:A:LYS:HB2	5	0.15
(1,1047)	1:203:A:ILE:HG23	1:204:A:LYS:HB2	5	0.15
(1,1046)	1:175:A:MET:H	1:175:A:MET:HG3	2	0.15
(1,1033)	1:144:A:ILE:H	1:109:A:ARG:HD3	14	0.15
(1,1033)	1:144:A:ILE:H	1:109:A:ARG:HD3	20	0.15
(1,1030)	1:26:A:VAL:H	1:36:A:SER:HB2	18	0.15
(1,1023)	1:111:A:PHE:H	1:97:A:ILE:HG21	7	0.15
(1,1023)	1:111:A:PHE:H	1:97:A:ILE:HG22	7	0.15
(1,1023)	1:111:A:PHE:H	1:97:A:ILE:HG23	7	0.15
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB1	2	0.15
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB2	2	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB3	2	0.15
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB1	5	0.15
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB2	5	0.15
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB3	5	0.15
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB1	7	0.15
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB2	7	0.15
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB3	7	0.15
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB1	15	0.15
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB2	15	0.15
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB3	15	0.15
(1,956)	1:15:A:LEU:H	1:154:A:VAL:HG11	13	0.15
(1,956)	1:15:A:LEU:H	1:154:A:VAL:HG12	13	0.15
(1,956)	1:15:A:LEU:H	1:154:A:VAL:HG13	13	0.15
(1,946)	1:143:A:TYR:H	1:140:A:SER:HB2	17	0.15
(1,923)	1:196:A:ILE:HG21	1:193:A:VAL:HB	4	0.15
(1,923)	1:196:A:ILE:HG22	1:193:A:VAL:HB	4	0.15
(1,923)	1:196:A:ILE:HG23	1:193:A:VAL:HB	4	0.15
(1,923)	1:196:A:ILE:HG21	1:193:A:VAL:HB	10	0.15
(1,923)	1:196:A:ILE:HG22	1:193:A:VAL:HB	10	0.15
(1,923)	1:196:A:ILE:HG23	1:193:A:VAL:HB	10	0.15
(1,923)	1:196:A:ILE:HG21	1:193:A:VAL:HB	18	0.15
(1,923)	1:196:A:ILE:HG22	1:193:A:VAL:HB	18	0.15
(1,923)	1:196:A:ILE:HG23	1:193:A:VAL:HB	18	0.15
(1,906)	1:98:A:THR:HG21	1:96:A:THR:HG21	4	0.15
(1,906)	1:98:A:THR:HG21	1:96:A:THR:HG22	4	0.15
(1,906)	1:98:A:THR:HG21	1:96:A:THR:HG23	4	0.15
(1,906)	1:98:A:THR:HG22	1:96:A:THR:HG21	4	0.15
(1,906)	1:98:A:THR:HG22	1:96:A:THR:HG22	4	0.15
(1,906)	1:98:A:THR:HG22	1:96:A:THR:HG23	4	0.15
(1,906)	1:98:A:THR:HG23	1:96:A:THR:HG21	4	0.15
(1,906)	1:98:A:THR:HG23	1:96:A:THR:HG22	4	0.15
(1,906)	1:98:A:THR:HG23	1:96:A:THR:HG23	4	0.15
(1,906)	1:98:A:THR:HG21	1:96:A:THR:HG21	12	0.15
(1,906)	1:98:A:THR:HG21	1:96:A:THR:HG22	12	0.15
(1,906)	1:98:A:THR:HG21	1:96:A:THR:HG23	12	0.15
(1,906)	1:98:A:THR:HG22	1:96:A:THR:HG21	12	0.15
(1,906)	1:98:A:THR:HG22	1:96:A:THR:HG22	12	0.15
(1,906)	1:98:A:THR:HG22	1:96:A:THR:HG23	12	0.15
(1,906)	1:98:A:THR:HG23	1:96:A:THR:HG21	12	0.15
(1,906)	1:98:A:THR:HG23	1:96:A:THR:HG22	12	0.15
(1,906)	1:98:A:THR:HG23	1:96:A:THR:HG23	12	0.15
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB1	14	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB2	14	0.15
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB3	14	0.15
(1,879)	1:121:A:GLU:H	1:119:A:ARG:H	9	0.15
(1,879)	1:121:A:GLU:H	1:119:A:ARG:H	11	0.15
(1,878)	1:180:A:SER:H	1:184:A:ILE:HB	13	0.15
(1,878)	1:180:A:SER:H	1:184:A:ILE:HB	15	0.15
(1,857)	1:185:A:GLU:H	1:187:A:THR:HG21	15	0.15
(1,857)	1:185:A:GLU:H	1:187:A:THR:HG22	15	0.15
(1,857)	1:185:A:GLU:H	1:187:A:THR:HG23	15	0.15
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG11	19	0.15
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG12	19	0.15
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG13	19	0.15
(1,770)	1:53:A:ILE:HD11	1:32:A:LYS:HE2	15	0.15
(1,770)	1:53:A:ILE:HD12	1:32:A:LYS:HE2	15	0.15
(1,770)	1:53:A:ILE:HD13	1:32:A:LYS:HE2	15	0.15
(1,756)	1:26:A:VAL:HG21	1:37:A:SER:H	2	0.15
(1,756)	1:26:A:VAL:HG22	1:37:A:SER:H	2	0.15
(1,756)	1:26:A:VAL:HG23	1:37:A:SER:H	2	0.15
(1,756)	1:26:A:VAL:HG21	1:37:A:SER:H	19	0.15
(1,756)	1:26:A:VAL:HG22	1:37:A:SER:H	19	0.15
(1,756)	1:26:A:VAL:HG23	1:37:A:SER:H	19	0.15
(1,741)	1:147:A:TYR:H	1:144:A:ILE:HG12	1	0.15
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG21	6	0.15
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG22	6	0.15
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG23	6	0.15
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG21	13	0.15
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG22	13	0.15
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG23	13	0.15
(1,710)	1:150:A:PRO:HB2	1:14:A:VAL:HG21	20	0.15
(1,710)	1:150:A:PRO:HB2	1:14:A:VAL:HG22	20	0.15
(1,710)	1:150:A:PRO:HB2	1:14:A:VAL:HG23	20	0.15
(1,676)	1:130:A:LYS:HD2	1:10:A:THR:HG21	2	0.15
(1,676)	1:130:A:LYS:HD2	1:10:A:THR:HG22	2	0.15
(1,676)	1:130:A:LYS:HD2	1:10:A:THR:HG23	2	0.15
(1,665)	1:167:A:LEU:H	1:54:A:ILE:HB	9	0.15
(1,665)	1:167:A:LEU:H	1:54:A:ILE:HB	11	0.15
(1,665)	1:167:A:LEU:H	1:54:A:ILE:HB	12	0.15
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD11	6	0.15
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD12	6	0.15
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD13	6	0.15
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD11	6	0.15
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD12	6	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD13	6	0.15
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD11	6	0.15
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD12	6	0.15
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD13	6	0.15
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD11	17	0.15
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD12	17	0.15
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD13	17	0.15
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD11	17	0.15
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD12	17	0.15
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD13	17	0.15
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD11	17	0.15
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD12	17	0.15
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD13	17	0.15
(1,644)	1:96:A:THR:H	1:94:A:CYS:H	14	0.15
(1,639)	1:193:A:VAL:H	1:192:A:LEU:HG	18	0.15
(1,584)	1:33:A:ILE:HG13	1:196:A:ILE:HG21	13	0.15
(1,584)	1:33:A:ILE:HG13	1:196:A:ILE:HG22	13	0.15
(1,584)	1:33:A:ILE:HG13	1:196:A:ILE:HG23	13	0.15
(1,567)	1:156:A:SER:H	1:166:A:LYS:HA	11	0.15
(1,567)	1:156:A:SER:H	1:166:A:LYS:HA	14	0.15
(1,554)	1:61:A:LEU:H	1:59:A:ALA:HA	10	0.15
(1,541)	1:197:A:LEU:HA	1:197:A:LEU:HD21	6	0.15
(1,541)	1:197:A:LEU:HA	1:197:A:LEU:HD22	6	0.15
(1,541)	1:197:A:LEU:HA	1:197:A:LEU:HD23	6	0.15
(1,539)	1:206:A:HIS:H	1:202:A:GLY:HA3	6	0.15
(1,527)	1:2:A:ASP:H	1:1:A:MET:HG3	1	0.15
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD11	2	0.15
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD12	2	0.15
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD13	2	0.15
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD11	15	0.15
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD12	15	0.15
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD13	15	0.15
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD11	20	0.15
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD12	20	0.15
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD13	20	0.15
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD21	17	0.15
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD22	17	0.15
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD23	17	0.15
(1,317)	1:160:A:GLU:H	1:160:A:GLU:HG3	17	0.15
(1,273)	1:161:A:ASN:H	1:160:A:GLU:HB2	15	0.15
(1,258)	1:42:A:LYS:H	1:42:A:LYS:HD2	5	0.15
(1,256)	1:144:A:ILE:H	1:109:A:ARG:HB3	8	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,251)	1:61:A:LEU:HG	1:203:A:ILE:HG21	2	0.15
(1,251)	1:61:A:LEU:HG	1:203:A:ILE:HG22	2	0.15
(1,251)	1:61:A:LEU:HG	1:203:A:ILE:HG23	2	0.15
(1,251)	1:61:A:LEU:HG	1:203:A:ILE:HG21	4	0.15
(1,251)	1:61:A:LEU:HG	1:203:A:ILE:HG22	4	0.15
(1,251)	1:61:A:LEU:HG	1:203:A:ILE:HG23	4	0.15
(1,251)	1:61:A:LEU:HG	1:203:A:ILE:HG21	5	0.15
(1,251)	1:61:A:LEU:HG	1:203:A:ILE:HG22	5	0.15
(1,251)	1:61:A:LEU:HG	1:203:A:ILE:HG23	5	0.15
(1,251)	1:61:A:LEU:HG	1:203:A:ILE:HG21	19	0.15
(1,251)	1:61:A:LEU:HG	1:203:A:ILE:HG22	19	0.15
(1,251)	1:61:A:LEU:HG	1:203:A:ILE:HG23	19	0.15
(1,247)	1:52:A:GLY:H	1:168:A:VAL:HG21	16	0.15
(1,247)	1:52:A:GLY:H	1:168:A:VAL:HG22	16	0.15
(1,247)	1:52:A:GLY:H	1:168:A:VAL:HG23	16	0.15
(1,240)	1:128:A:SER:H	1:126:A:ILE:HB	8	0.15
(1,240)	1:128:A:SER:H	1:126:A:ILE:HB	13	0.15
(1,211)	1:42:A:LYS:HB2	1:40:A:SER:HB3	18	0.15
(1,154)	1:197:A:LEU:HD11	1:198:A:ASN:H	2	0.15
(1,154)	1:197:A:LEU:HD12	1:198:A:ASN:H	2	0.15
(1,154)	1:197:A:LEU:HD13	1:198:A:ASN:H	2	0.15
(1,154)	1:197:A:LEU:HD11	1:198:A:ASN:H	10	0.15
(1,154)	1:197:A:LEU:HD12	1:198:A:ASN:H	10	0.15
(1,154)	1:197:A:LEU:HD13	1:198:A:ASN:H	10	0.15
(1,154)	1:197:A:LEU:HD11	1:198:A:ASN:H	11	0.15
(1,154)	1:197:A:LEU:HD12	1:198:A:ASN:H	11	0.15
(1,154)	1:197:A:LEU:HD13	1:198:A:ASN:H	11	0.15
(1,154)	1:197:A:LEU:HD11	1:198:A:ASN:H	18	0.15
(1,154)	1:197:A:LEU:HD12	1:198:A:ASN:H	18	0.15
(1,154)	1:197:A:LEU:HD13	1:198:A:ASN:H	18	0.15
(1,118)	1:25:A:LYS:H	1:25:A:LYS:HG3	20	0.15
(1,99)	1:7:A:ALA:HB1	1:6:A:ILE:HB	20	0.15
(1,99)	1:7:A:ALA:HB2	1:6:A:ILE:HB	20	0.15
(1,99)	1:7:A:ALA:HB3	1:6:A:ILE:HB	20	0.15
(1,77)	1:199:A:ALA:HB1	1:54:A:ILE:HB	6	0.15
(1,77)	1:199:A:ALA:HB2	1:54:A:ILE:HB	6	0.15
(1,77)	1:199:A:ALA:HB3	1:54:A:ILE:HB	6	0.15
(1,77)	1:199:A:ALA:HB1	1:54:A:ILE:HB	18	0.15
(1,77)	1:199:A:ALA:HB2	1:54:A:ILE:HB	18	0.15
(1,77)	1:199:A:ALA:HB3	1:54:A:ILE:HB	18	0.15
(1,71)	1:112:A:ILE:HD11	1:111:A:PHE:HB3	10	0.15
(1,71)	1:112:A:ILE:HD12	1:111:A:PHE:HB3	10	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,71)	1:112:A:ILE:HD13	1:111:A:PHE:HB3	10	0.15
(1,71)	1:112:A:ILE:HD11	1:111:A:PHE:HB3	20	0.15
(1,71)	1:112:A:ILE:HD12	1:111:A:PHE:HB3	20	0.15
(1,71)	1:112:A:ILE:HD13	1:111:A:PHE:HB3	20	0.15
(1,26)	1:98:A:THR:HG21	1:99:A:GLN:HG3	14	0.15
(1,26)	1:98:A:THR:HG22	1:99:A:GLN:HG3	14	0.15
(1,26)	1:98:A:THR:HG23	1:99:A:GLN:HG3	14	0.15
(2,119)	1:170:A:PHE:O	1:152:A:GLY:N	12	0.14
(2,118)	1:152:A:GLY:N	1:170:A:PHE:O	12	0.14
(1,4387)	1:203:A:ILE:HD11	1:56:A:GLU:H	15	0.14
(1,4387)	1:203:A:ILE:HD12	1:56:A:GLU:H	15	0.14
(1,4387)	1:203:A:ILE:HD13	1:56:A:GLU:H	15	0.14
(1,4372)	1:206:A:HIS:H	1:203:A:ILE:H	2	0.14
(1,4372)	1:206:A:HIS:H	1:203:A:ILE:H	4	0.14
(1,4372)	1:206:A:HIS:H	1:203:A:ILE:H	5	0.14
(1,4358)	1:71:A:ARG:H	1:74:A:TRP:HD1	18	0.14
(1,4340)	1:40:A:SER:H	1:43:A:PHE:H	6	0.14
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD11	5	0.14
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD12	5	0.14
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD13	5	0.14
(1,4325)	1:203:A:ILE:HG21	1:61:A:LEU:H	4	0.14
(1,4325)	1:203:A:ILE:HG22	1:61:A:LEU:H	4	0.14
(1,4325)	1:203:A:ILE:HG23	1:61:A:LEU:H	4	0.14
(1,4324)	1:35:A:VAL:HG21	1:27:A:VAL:H	10	0.14
(1,4324)	1:35:A:VAL:HG22	1:27:A:VAL:H	10	0.14
(1,4324)	1:35:A:VAL:HG23	1:27:A:VAL:H	10	0.14
(1,4306)	1:102:A:ALA:HA	1:105:A:SER:H	1	0.14
(1,4259)	1:140:A:SER:H	1:141:A:SER:HA	7	0.14
(1,4259)	1:140:A:SER:H	1:141:A:SER:HA	12	0.14
(1,4259)	1:140:A:SER:H	1:141:A:SER:HA	14	0.14
(1,4195)	1:151:A:CYS:H	1:149:A:HIS:HA	19	0.14
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG21	1	0.14
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG22	1	0.14
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG23	1	0.14
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG21	7	0.14
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG22	7	0.14
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG23	7	0.14
(1,4175)	1:91:A:THR:H	1:87:A:ILE:HB	12	0.14
(1,4170)	1:144:A:ILE:H	1:109:A:ARG:HG2	8	0.14
(1,4156)	1:208:A:THR:HG21	1:212:A:ARG:H	3	0.14
(1,4156)	1:208:A:THR:HG22	1:212:A:ARG:H	3	0.14
(1,4156)	1:208:A:THR:HG23	1:212:A:ARG:H	3	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4150)	1:121:A:GLU:H	1:122:A:GLY:H	11	0.14
(1,4150)	1:121:A:GLU:H	1:122:A:GLY:H	12	0.14
(1,4118)	1:207:A:ARG:HA	1:206:A:HIS:H	17	0.14
(1,4112)	1:40:A:SER:H	1:47:A:LEU:HA	9	0.14
(1,4106)	1:96:A:THR:H	1:81:A:TYR:HA	19	0.14
(1,4087)	1:207:A:ARG:H	1:204:A:LYS:HB3	14	0.14
(1,4070)	1:42:A:LYS:HD3	1:42:A:LYS:HB3	6	0.14
(1,4061)	1:179:A:LEU:H	1:179:A:LEU:HD21	1	0.14
(1,4061)	1:179:A:LEU:H	1:179:A:LEU:HD22	1	0.14
(1,4061)	1:179:A:LEU:H	1:179:A:LEU:HD23	1	0.14
(1,4057)	1:145:A:ARG:H	1:143:A:TYR:HA	14	0.14
(1,4046)	1:183:A:ILE:H	1:184:A:ILE:HB	2	0.14
(1,3988)	1:170:A:PHE:H	1:151:A:CYS:HB2	2	0.14
(1,3965)	1:168:A:VAL:HG11	1:166:A:LYS:HG3	2	0.14
(1,3965)	1:168:A:VAL:HG12	1:166:A:LYS:HG3	2	0.14
(1,3965)	1:168:A:VAL:HG13	1:166:A:LYS:HG3	2	0.14
(1,3965)	1:168:A:VAL:HG11	1:166:A:LYS:HG3	14	0.14
(1,3965)	1:168:A:VAL:HG12	1:166:A:LYS:HG3	14	0.14
(1,3965)	1:168:A:VAL:HG13	1:166:A:LYS:HG3	14	0.14
(1,3883)	1:166:A:LYS:HB3	1:51:A:GLU:HG3	12	0.14
(1,3882)	1:112:A:ILE:HG21	1:132:A:VAL:HB	18	0.14
(1,3882)	1:112:A:ILE:HG22	1:132:A:VAL:HB	18	0.14
(1,3882)	1:112:A:ILE:HG23	1:132:A:VAL:HB	18	0.14
(1,3882)	1:112:A:ILE:HG21	1:132:A:VAL:HB	20	0.14
(1,3882)	1:112:A:ILE:HG22	1:132:A:VAL:HB	20	0.14
(1,3882)	1:112:A:ILE:HG23	1:132:A:VAL:HB	20	0.14
(1,3872)	1:203:A:ILE:H	1:61:A:LEU:HD21	10	0.14
(1,3872)	1:203:A:ILE:H	1:61:A:LEU:HD22	10	0.14
(1,3872)	1:203:A:ILE:H	1:61:A:LEU:HD23	10	0.14
(1,3872)	1:203:A:ILE:H	1:61:A:LEU:HD21	20	0.14
(1,3872)	1:203:A:ILE:H	1:61:A:LEU:HD22	20	0.14
(1,3872)	1:203:A:ILE:H	1:61:A:LEU:HD23	20	0.14
(1,3866)	1:5:A:ALA:HA	1:8:A:GLN:HG3	15	0.14
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG11	9	0.14
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG12	9	0.14
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG13	9	0.14
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG11	11	0.14
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG12	11	0.14
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG13	11	0.14
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG11	17	0.14
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG12	17	0.14
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG13	17	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3793)	1:137:A:TYR:H	1:134:A:PHE:HZ	2	0.14
(1,3793)	1:137:A:TYR:H	1:134:A:PHE:HZ	5	0.14
(1,3759)	1:48:A:TYR:H	1:170:A:PHE:HB3	9	0.14
(1,3759)	1:48:A:TYR:H	1:170:A:PHE:HB3	13	0.14
(1,3749)	1:8:A:GLN:H	1:11:A:ALA:H	10	0.14
(1,3722)	1:56:A:GLU:H	1:55:A:PRO:HD2	3	0.14
(1,3719)	1:67:A:GLN:HA	1:71:A:ARG:HG3	12	0.14
(1,3717)	1:37:A:SER:H	1:24:A:TRP:HA	7	0.14
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD21	8	0.14
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD22	8	0.14
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD23	8	0.14
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB1	5	0.14
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB2	5	0.14
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB3	5	0.14
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB1	10	0.14
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB2	10	0.14
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB3	10	0.14
(1,3701)	1:180:A:SER:H	1:179:A:LEU:H	13	0.14
(1,3694)	1:80:A:VAL:HG21	1:79:A:GLN:HG3	7	0.14
(1,3694)	1:80:A:VAL:HG22	1:79:A:GLN:HG3	7	0.14
(1,3694)	1:80:A:VAL:HG23	1:79:A:GLN:HG3	7	0.14
(1,3683)	1:50:A:VAL:H	1:168:A:VAL:HA	11	0.14
(1,3673)	1:65:A:LEU:H	1:66:A:TYR:HA	13	0.14
(1,3673)	1:65:A:LEU:H	1:66:A:TYR:HA	20	0.14
(1,3623)	1:13:A:GLU:H	1:13:A:GLU:HG2	3	0.14
(1,3566)	1:134:A:PHE:HB3	1:132:A:VAL:HB	10	0.14
(1,3531)	1:88:A:ASP:H	1:86:A:ARG:HB2	9	0.14
(1,3522)	1:112:A:ILE:H	1:96:A:THR:HB	18	0.14
(1,3513)	1:211:A:ARG:HA	1:211:A:ARG:HD2	15	0.14
(1,3513)	1:211:A:ARG:HA	1:211:A:ARG:HD2	18	0.14
(1,3491)	1:130:A:LYS:HB3	1:114:A:LEU:HB3	15	0.14
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG21	17	0.14
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG22	17	0.14
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG23	17	0.14
(1,3420)	1:95:A:HIS:H	1:112:A:ILE:HG21	1	0.14
(1,3420)	1:95:A:HIS:H	1:112:A:ILE:HG22	1	0.14
(1,3420)	1:95:A:HIS:H	1:112:A:ILE:HG23	1	0.14
(1,3410)	1:167:A:LEU:H	1:52:A:GLY:HA2	4	0.14
(1,3360)	1:116:A:TYR:H	1:114:A:LEU:HG	7	0.14
(1,3342)	1:180:A:SER:HB3	1:183:A:ILE:HG13	8	0.14
(1,3260)	1:201:A:ASP:H	1:199:A:ALA:HA	2	0.14
(1,3260)	1:201:A:ASP:H	1:199:A:ALA:HA	9	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3260)	1:201:A:ASP:H	1:199:A:ALA:HA	13	0.14
(1,3260)	1:201:A:ASP:H	1:199:A:ALA:HA	15	0.14
(1,3260)	1:201:A:ASP:H	1:199:A:ALA:HA	16	0.14
(1,3250)	1:71:A:ARG:H	1:68:A:THR:HA	18	0.14
(1,3196)	1:36:A:SER:HA	1:24:A:TRP:HE1	8	0.14
(1,3096)	1:61:A:LEU:HG	1:57:A:SER:HA	7	0.14
(1,3091)	1:124:A:MET:H	1:119:A:ARG:HA	9	0.14
(1,3027)	1:26:A:VAL:H	1:26:A:VAL:HG21	6	0.14
(1,3027)	1:26:A:VAL:H	1:26:A:VAL:HG22	6	0.14
(1,3027)	1:26:A:VAL:H	1:26:A:VAL:HG23	6	0.14
(1,3027)	1:26:A:VAL:H	1:26:A:VAL:HG21	11	0.14
(1,3027)	1:26:A:VAL:H	1:26:A:VAL:HG22	11	0.14
(1,3027)	1:26:A:VAL:H	1:26:A:VAL:HG23	11	0.14
(1,2991)	1:143:A:TYR:H	1:144:A:ILE:HG21	19	0.14
(1,2991)	1:143:A:TYR:H	1:144:A:ILE:HG22	19	0.14
(1,2991)	1:143:A:TYR:H	1:144:A:ILE:HG23	19	0.14
(1,2973)	1:57:A:SER:H	1:203:A:ILE:HG21	11	0.14
(1,2973)	1:57:A:SER:H	1:203:A:ILE:HG22	11	0.14
(1,2973)	1:57:A:SER:H	1:203:A:ILE:HG23	11	0.14
(1,2966)	1:17:A:TYR:H	1:15:A:LEU:HG	3	0.14
(1,2966)	1:17:A:TYR:H	1:15:A:LEU:HG	11	0.14
(1,2878)	1:57:A:SER:H	1:56:A:GLU:HG3	7	0.14
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG21	18	0.14
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG22	18	0.14
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG23	18	0.14
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG21	18	0.14
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG22	18	0.14
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG23	18	0.14
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG21	18	0.14
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG22	18	0.14
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG23	18	0.14
(1,2800)	1:203:A:ILE:HD11	1:54:A:ILE:HB	14	0.14
(1,2800)	1:203:A:ILE:HD12	1:54:A:ILE:HB	14	0.14
(1,2800)	1:203:A:ILE:HD13	1:54:A:ILE:HB	14	0.14
(1,2777)	1:73:A:THR:HG21	1:202:A:GLY:HA2	17	0.14
(1,2777)	1:73:A:THR:HG22	1:202:A:GLY:HA2	17	0.14
(1,2777)	1:73:A:THR:HG23	1:202:A:GLY:HA2	17	0.14
(1,2762)	1:197:A:LEU:H	1:200:A:LYS:H	3	0.14
(1,2762)	1:197:A:LEU:H	1:200:A:LYS:H	18	0.14
(1,2742)	1:4:A:LYS:H	1:2:A:ASP:HA	9	0.14
(1,2742)	1:4:A:LYS:H	1:2:A:ASP:HA	17	0.14
(1,2704)	1:162:A:PRO:HA	1:162:A:PRO:HD3	7	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2698)	1:132:A:VAL:H	1:130:A:LYS:H	12	0.14
(1,2698)	1:132:A:VAL:H	1:130:A:LYS:H	17	0.14
(1,2698)	1:132:A:VAL:H	1:130:A:LYS:H	19	0.14
(1,2678)	1:205:A:ALA:HB1	1:203:A:ILE:HA	20	0.14
(1,2678)	1:205:A:ALA:HB2	1:203:A:ILE:HA	20	0.14
(1,2678)	1:205:A:ALA:HB3	1:203:A:ILE:HA	20	0.14
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB1	8	0.14
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB2	8	0.14
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB3	8	0.14
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB1	10	0.14
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB2	10	0.14
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB3	10	0.14
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB1	15	0.14
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB2	15	0.14
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB3	15	0.14
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB1	17	0.14
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB2	17	0.14
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB3	17	0.14
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB1	18	0.14
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB2	18	0.14
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB3	18	0.14
(1,2649)	1:54:A:ILE:HG13	1:200:A:LYS:H	9	0.14
(1,2649)	1:54:A:ILE:HG13	1:200:A:LYS:H	13	0.14
(1,2649)	1:54:A:ILE:HG13	1:200:A:LYS:H	15	0.14
(1,2620)	1:188:A:MET:HB2	1:189:A:PRO:HD3	17	0.14
(1,2572)	1:151:A:CYS:H	1:152:A:GLY:HA3	9	0.14
(1,2565)	1:190:A:SER:H	1:188:A:MET:HE1	1	0.14
(1,2565)	1:190:A:SER:H	1:188:A:MET:HE2	1	0.14
(1,2565)	1:190:A:SER:H	1:188:A:MET:HE3	1	0.14
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD11	4	0.14
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD12	4	0.14
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD13	4	0.14
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD11	7	0.14
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD12	7	0.14
(1,2554)	1:16:A:GLY:H	1:15:A:LEU:HD13	7	0.14
(1,2545)	1:84:A:VAL:H	1:95:A:HIS:HA	5	0.14
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD21	8	0.14
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD22	8	0.14
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD23	8	0.14
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD21	16	0.14
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD22	16	0.14
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD23	16	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD21	18	0.14
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD22	18	0.14
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD23	18	0.14
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD21	19	0.14
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD22	19	0.14
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD23	19	0.14
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD21	20	0.14
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD22	20	0.14
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD23	20	0.14
(1,2525)	1:33:A:ILE:HD11	1:50:A:VAL:HG11	13	0.14
(1,2525)	1:33:A:ILE:HD11	1:50:A:VAL:HG12	13	0.14
(1,2525)	1:33:A:ILE:HD11	1:50:A:VAL:HG13	13	0.14
(1,2525)	1:33:A:ILE:HD12	1:50:A:VAL:HG11	13	0.14
(1,2525)	1:33:A:ILE:HD12	1:50:A:VAL:HG12	13	0.14
(1,2525)	1:33:A:ILE:HD12	1:50:A:VAL:HG13	13	0.14
(1,2525)	1:33:A:ILE:HD13	1:50:A:VAL:HG11	13	0.14
(1,2525)	1:33:A:ILE:HD13	1:50:A:VAL:HG12	13	0.14
(1,2525)	1:33:A:ILE:HD13	1:50:A:VAL:HG13	13	0.14
(1,2520)	1:27:A:VAL:H	1:28:A:LYS:HA	8	0.14
(1,2513)	1:60:A:LYS:H	1:61:A:LEU:HD21	3	0.14
(1,2513)	1:60:A:LYS:H	1:61:A:LEU:HD22	3	0.14
(1,2513)	1:60:A:LYS:H	1:61:A:LEU:HD23	3	0.14
(1,2471)	1:154:A:VAL:HG11	1:124:A:MET:HB3	5	0.14
(1,2471)	1:154:A:VAL:HG12	1:124:A:MET:HB3	5	0.14
(1,2471)	1:154:A:VAL:HG13	1:124:A:MET:HB3	5	0.14
(1,2471)	1:154:A:VAL:HG11	1:124:A:MET:HB3	14	0.14
(1,2471)	1:154:A:VAL:HG12	1:124:A:MET:HB3	14	0.14
(1,2471)	1:154:A:VAL:HG13	1:124:A:MET:HB3	14	0.14
(1,2471)	1:154:A:VAL:HG11	1:124:A:MET:HB3	15	0.14
(1,2471)	1:154:A:VAL:HG12	1:124:A:MET:HB3	15	0.14
(1,2471)	1:154:A:VAL:HG13	1:124:A:MET:HB3	15	0.14
(1,2471)	1:154:A:VAL:HG11	1:124:A:MET:HB3	17	0.14
(1,2471)	1:154:A:VAL:HG12	1:124:A:MET:HB3	17	0.14
(1,2471)	1:154:A:VAL:HG13	1:124:A:MET:HB3	17	0.14
(1,2427)	1:129:A:SER:HB3	1:152:A:GLY:HA3	8	0.14
(1,2416)	1:147:A:TYR:H	1:173:A:THR:HG21	18	0.14
(1,2416)	1:147:A:TYR:H	1:173:A:THR:HG22	18	0.14
(1,2416)	1:147:A:TYR:H	1:173:A:THR:HG23	18	0.14
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD21	8	0.14
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD22	8	0.14
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD23	8	0.14
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD21	9	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD22	9	0.14
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD23	9	0.14
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD21	13	0.14
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD22	13	0.14
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD23	13	0.14
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB1	8	0.14
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB2	8	0.14
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB3	8	0.14
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB1	14	0.14
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB2	14	0.14
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB3	14	0.14
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB1	16	0.14
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB2	16	0.14
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB3	16	0.14
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB1	20	0.14
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB2	20	0.14
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB3	20	0.14
(1,2351)	1:80:A:VAL:H	1:81:A:TYR:HB3	16	0.14
(1,2289)	1:45:A:GLY:H	1:43:A:PHE:H	4	0.14
(1,2284)	1:34:A:THR:HG21	1:26:A:VAL:HG21	10	0.14
(1,2284)	1:34:A:THR:HG21	1:26:A:VAL:HG22	10	0.14
(1,2284)	1:34:A:THR:HG21	1:26:A:VAL:HG23	10	0.14
(1,2284)	1:34:A:THR:HG22	1:26:A:VAL:HG21	10	0.14
(1,2284)	1:34:A:THR:HG22	1:26:A:VAL:HG22	10	0.14
(1,2284)	1:34:A:THR:HG22	1:26:A:VAL:HG23	10	0.14
(1,2284)	1:34:A:THR:HG23	1:26:A:VAL:HG21	10	0.14
(1,2284)	1:34:A:THR:HG23	1:26:A:VAL:HG22	10	0.14
(1,2284)	1:34:A:THR:HG23	1:26:A:VAL:HG23	10	0.14
(1,2284)	1:34:A:THR:HG21	1:26:A:VAL:HG21	14	0.14
(1,2284)	1:34:A:THR:HG21	1:26:A:VAL:HG22	14	0.14
(1,2284)	1:34:A:THR:HG21	1:26:A:VAL:HG23	14	0.14
(1,2284)	1:34:A:THR:HG22	1:26:A:VAL:HG21	14	0.14
(1,2284)	1:34:A:THR:HG22	1:26:A:VAL:HG22	14	0.14
(1,2284)	1:34:A:THR:HG22	1:26:A:VAL:HG23	14	0.14
(1,2284)	1:34:A:THR:HG23	1:26:A:VAL:HG21	14	0.14
(1,2284)	1:34:A:THR:HG23	1:26:A:VAL:HG22	14	0.14
(1,2284)	1:34:A:THR:HG23	1:26:A:VAL:HG23	14	0.14
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG11	5	0.14
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG12	5	0.14
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG13	5	0.14
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG11	5	0.14
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG12	5	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG13	5	0.14
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG11	5	0.14
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG12	5	0.14
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG13	5	0.14
(1,2206)	1:168:A:VAL:HG11	1:51:A:GLU:HG2	17	0.14
(1,2206)	1:168:A:VAL:HG12	1:51:A:GLU:HG2	17	0.14
(1,2206)	1:168:A:VAL:HG13	1:51:A:GLU:HG2	17	0.14
(1,2169)	1:4:A:LYS:H	1:87:A:ILE:HD11	11	0.14
(1,2169)	1:4:A:LYS:H	1:87:A:ILE:HD12	11	0.14
(1,2169)	1:4:A:LYS:H	1:87:A:ILE:HD13	11	0.14
(1,2163)	1:76:A:LYS:H	1:198:A:ASN:HA	8	0.14
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD11	14	0.14
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD12	14	0.14
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD13	14	0.14
(1,2144)	1:170:A:PHE:H	1:169:A:MET:H	7	0.14
(1,2144)	1:170:A:PHE:H	1:169:A:MET:H	10	0.14
(1,2144)	1:170:A:PHE:H	1:169:A:MET:H	18	0.14
(1,2137)	1:198:A:ASN:H	1:196:A:ILE:HA	15	0.14
(1,2128)	1:66:A:TYR:H	1:71:A:ARG:H	4	0.14
(1,2107)	1:134:A:PHE:H	1:134:A:PHE:HZ	17	0.14
(1,2104)	1:114:A:LEU:HD21	1:6:A:ILE:HB	20	0.14
(1,2104)	1:114:A:LEU:HD22	1:6:A:ILE:HB	20	0.14
(1,2104)	1:114:A:LEU:HD23	1:6:A:ILE:HB	20	0.14
(1,2065)	1:102:A:ALA:HB1	1:105:A:SER:HB3	1	0.14
(1,2065)	1:102:A:ALA:HB2	1:105:A:SER:HB3	1	0.14
(1,2065)	1:102:A:ALA:HB3	1:105:A:SER:HB3	1	0.14
(1,2030)	1:28:A:LYS:H	1:34:A:THR:HA	15	0.14
(1,2030)	1:28:A:LYS:H	1:34:A:THR:HA	20	0.14
(1,1994)	1:176:A:ARG:H	1:109:A:ARG:HD3	12	0.14
(1,1933)	1:80:A:VAL:H	1:78:A:LEU:HD21	9	0.14
(1,1933)	1:80:A:VAL:H	1:78:A:LEU:HD22	9	0.14
(1,1933)	1:80:A:VAL:H	1:78:A:LEU:HD23	9	0.14
(1,1924)	1:6:A:ILE:HD11	1:5:A:ALA:HA	6	0.14
(1,1924)	1:6:A:ILE:HD12	1:5:A:ALA:HA	6	0.14
(1,1924)	1:6:A:ILE:HD13	1:5:A:ALA:HA	6	0.14
(1,1898)	1:24:A:TRP:H	1:38:A:LYS:HB2	17	0.14
(1,1869)	1:65:A:LEU:H	1:64:A:PHE:HZ	1	0.14
(1,1869)	1:65:A:LEU:H	1:64:A:PHE:HZ	3	0.14
(1,1869)	1:65:A:LEU:H	1:64:A:PHE:HZ	9	0.14
(1,1856)	1:129:A:SER:HB3	1:114:A:LEU:H	18	0.14
(1,1850)	1:29:A:THR:H	1:28:A:LYS:HD2	7	0.14
(1,1823)	1:207:A:ARG:HA	1:207:A:ARG:HG2	11	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1823)	1:207:A:ARG:HA	1:207:A:ARG:HG2	12	0.14
(1,1822)	1:56:A:GLU:H	1:53:A:ILE:HG21	10	0.14
(1,1822)	1:56:A:GLU:H	1:53:A:ILE:HG22	10	0.14
(1,1822)	1:56:A:GLU:H	1:53:A:ILE:HG23	10	0.14
(1,1804)	1:165:A:SER:H	1:55:A:PRO:HD3	17	0.14
(1,1793)	1:184:A:ILE:HB	1:183:A:ILE:HB	2	0.14
(1,1793)	1:184:A:ILE:HB	1:183:A:ILE:HB	8	0.14
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD11	4	0.14
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD12	4	0.14
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD13	4	0.14
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD11	4	0.14
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD12	4	0.14
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD13	4	0.14
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD11	4	0.14
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD12	4	0.14
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD13	4	0.14
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD11	5	0.14
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD12	5	0.14
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD13	5	0.14
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD11	5	0.14
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD12	5	0.14
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD13	5	0.14
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD11	5	0.14
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD12	5	0.14
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD13	5	0.14
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD11	7	0.14
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD12	7	0.14
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD13	7	0.14
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD11	7	0.14
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD12	7	0.14
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD13	7	0.14
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD11	7	0.14
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD12	7	0.14
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD13	7	0.14
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD11	17	0.14
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD12	17	0.14
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD13	17	0.14
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD11	17	0.14
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD12	17	0.14
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD13	17	0.14
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD11	17	0.14
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD12	17	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD13	17	0.14
(1,1716)	1:134:A:PHE:H	1:112:A:ILE:HB	14	0.14
(1,1716)	1:134:A:PHE:H	1:112:A:ILE:HB	16	0.14
(1,1716)	1:134:A:PHE:H	1:112:A:ILE:HB	19	0.14
(1,1672)	1:79:A:GLN:HG2	1:99:A:GLN:HB2	11	0.14
(1,1489)	1:175:A:MET:H	1:109:A:ARG:HD3	5	0.14
(1,1471)	1:201:A:ASP:H	1:203:A:ILE:HB	6	0.14
(1,1451)	1:114:A:LEU:HD11	1:93:A:ILE:HB	5	0.14
(1,1451)	1:114:A:LEU:HD12	1:93:A:ILE:HB	5	0.14
(1,1451)	1:114:A:LEU:HD13	1:93:A:ILE:HB	5	0.14
(1,1451)	1:114:A:LEU:HD11	1:93:A:ILE:HB	14	0.14
(1,1451)	1:114:A:LEU:HD12	1:93:A:ILE:HB	14	0.14
(1,1451)	1:114:A:LEU:HD13	1:93:A:ILE:HB	14	0.14
(1,1451)	1:114:A:LEU:HD11	1:93:A:ILE:HB	20	0.14
(1,1451)	1:114:A:LEU:HD12	1:93:A:ILE:HB	20	0.14
(1,1451)	1:114:A:LEU:HD13	1:93:A:ILE:HB	20	0.14
(1,1438)	1:192:A:LEU:HG	1:188:A:MET:HB3	7	0.14
(1,1431)	1:203:A:ILE:HD11	1:60:A:LYS:HD3	4	0.14
(1,1431)	1:203:A:ILE:HD12	1:60:A:LYS:HD3	4	0.14
(1,1431)	1:203:A:ILE:HD13	1:60:A:LYS:HD3	4	0.14
(1,1315)	1:37:A:SER:H	1:49:A:ARG:H	3	0.14
(1,1302)	1:198:A:ASN:H	1:76:A:LYS:HG3	3	0.14
(1,1274)	1:201:A:ASP:H	1:200:A:LYS:HG2	8	0.14
(1,1272)	1:48:A:TYR:H	1:171:A:VAL:HG21	11	0.14
(1,1272)	1:48:A:TYR:H	1:171:A:VAL:HG22	11	0.14
(1,1272)	1:48:A:TYR:H	1:171:A:VAL:HG23	11	0.14
(1,1260)	1:167:A:LEU:HA	1:196:A:ILE:HD11	3	0.14
(1,1260)	1:167:A:LEU:HA	1:196:A:ILE:HD12	3	0.14
(1,1260)	1:167:A:LEU:HA	1:196:A:ILE:HD13	3	0.14
(1,1259)	1:25:A:LYS:H	1:24:A:TRP:HE1	2	0.14
(1,1259)	1:25:A:LYS:H	1:24:A:TRP:HE1	8	0.14
(1,1259)	1:25:A:LYS:H	1:24:A:TRP:HE1	10	0.14
(1,1259)	1:25:A:LYS:H	1:24:A:TRP:HE1	13	0.14
(1,1252)	1:130:A:LYS:HB3	1:7:A:ALA:HA	1	0.14
(1,1174)	1:126:A:ILE:HD11	1:152:A:GLY:H	13	0.14
(1,1174)	1:126:A:ILE:HD12	1:152:A:GLY:H	13	0.14
(1,1174)	1:126:A:ILE:HD13	1:152:A:GLY:H	13	0.14
(1,1174)	1:126:A:ILE:HD11	1:152:A:GLY:H	18	0.14
(1,1174)	1:126:A:ILE:HD12	1:152:A:GLY:H	18	0.14
(1,1174)	1:126:A:ILE:HD13	1:152:A:GLY:H	18	0.14
(1,1082)	1:194:A:ASN:H	1:193:A:VAL:HB	10	0.14
(1,1082)	1:194:A:ASN:H	1:193:A:VAL:HB	12	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1082)	1:194:A:ASN:H	1:193:A:VAL:HB	17	0.14
(1,1082)	1:194:A:ASN:H	1:193:A:VAL:HB	18	0.14
(1,1078)	1:199:A:ALA:HB1	1:203:A:ILE:HG21	8	0.14
(1,1078)	1:199:A:ALA:HB1	1:203:A:ILE:HG22	8	0.14
(1,1078)	1:199:A:ALA:HB1	1:203:A:ILE:HG23	8	0.14
(1,1078)	1:199:A:ALA:HB2	1:203:A:ILE:HG21	8	0.14
(1,1078)	1:199:A:ALA:HB2	1:203:A:ILE:HG22	8	0.14
(1,1078)	1:199:A:ALA:HB2	1:203:A:ILE:HG23	8	0.14
(1,1078)	1:199:A:ALA:HB3	1:203:A:ILE:HG21	8	0.14
(1,1078)	1:199:A:ALA:HB3	1:203:A:ILE:HG22	8	0.14
(1,1078)	1:199:A:ALA:HB3	1:203:A:ILE:HG23	8	0.14
(1,1078)	1:199:A:ALA:HB1	1:203:A:ILE:HG21	16	0.14
(1,1078)	1:199:A:ALA:HB1	1:203:A:ILE:HG22	16	0.14
(1,1078)	1:199:A:ALA:HB1	1:203:A:ILE:HG23	16	0.14
(1,1078)	1:199:A:ALA:HB2	1:203:A:ILE:HG21	16	0.14
(1,1078)	1:199:A:ALA:HB2	1:203:A:ILE:HG22	16	0.14
(1,1078)	1:199:A:ALA:HB2	1:203:A:ILE:HG23	16	0.14
(1,1078)	1:199:A:ALA:HB3	1:203:A:ILE:HG21	16	0.14
(1,1078)	1:199:A:ALA:HB3	1:203:A:ILE:HG22	16	0.14
(1,1078)	1:199:A:ALA:HB3	1:203:A:ILE:HG23	16	0.14
(1,1032)	1:204:A:LYS:HA	1:207:A:ARG:HG2	3	0.14
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB1	6	0.14
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB2	6	0.14
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB3	6	0.14
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB1	18	0.14
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB2	18	0.14
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB3	18	0.14
(1,955)	1:196:A:ILE:HD11	1:167:A:LEU:HG	2	0.14
(1,955)	1:196:A:ILE:HD12	1:167:A:LEU:HG	2	0.14
(1,955)	1:196:A:ILE:HD13	1:167:A:LEU:HG	2	0.14
(1,955)	1:196:A:ILE:HD11	1:167:A:LEU:HG	8	0.14
(1,955)	1:196:A:ILE:HD12	1:167:A:LEU:HG	8	0.14
(1,955)	1:196:A:ILE:HD13	1:167:A:LEU:HG	8	0.14
(1,955)	1:196:A:ILE:HD11	1:167:A:LEU:HG	10	0.14
(1,955)	1:196:A:ILE:HD12	1:167:A:LEU:HG	10	0.14
(1,955)	1:196:A:ILE:HD13	1:167:A:LEU:HG	10	0.14
(1,934)	1:184:A:ILE:H	1:187:A:THR:HG21	2	0.14
(1,934)	1:184:A:ILE:H	1:187:A:THR:HG22	2	0.14
(1,934)	1:184:A:ILE:H	1:187:A:THR:HG23	2	0.14
(1,934)	1:184:A:ILE:H	1:187:A:THR:HG21	9	0.14
(1,934)	1:184:A:ILE:H	1:187:A:THR:HG22	9	0.14
(1,934)	1:184:A:ILE:H	1:187:A:THR:HG23	9	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,934)	1:184:A:ILE:H	1:187:A:THR:HG21	10	0.14
(1,934)	1:184:A:ILE:H	1:187:A:THR:HG22	10	0.14
(1,934)	1:184:A:ILE:H	1:187:A:THR:HG23	10	0.14
(1,909)	1:101:A:PHE:H	1:106:A:ILE:HG21	15	0.14
(1,909)	1:101:A:PHE:H	1:106:A:ILE:HG22	15	0.14
(1,909)	1:101:A:PHE:H	1:106:A:ILE:HG23	15	0.14
(1,906)	1:98:A:THR:HG21	1:96:A:THR:HG21	17	0.14
(1,906)	1:98:A:THR:HG21	1:96:A:THR:HG22	17	0.14
(1,906)	1:98:A:THR:HG21	1:96:A:THR:HG23	17	0.14
(1,906)	1:98:A:THR:HG22	1:96:A:THR:HG21	17	0.14
(1,906)	1:98:A:THR:HG22	1:96:A:THR:HG22	17	0.14
(1,906)	1:98:A:THR:HG22	1:96:A:THR:HG23	17	0.14
(1,906)	1:98:A:THR:HG23	1:96:A:THR:HG21	17	0.14
(1,906)	1:98:A:THR:HG23	1:96:A:THR:HG22	17	0.14
(1,906)	1:98:A:THR:HG23	1:96:A:THR:HG23	17	0.14
(1,903)	1:194:A:ASN:HA	1:196:A:ILE:H	5	0.14
(1,903)	1:194:A:ASN:HA	1:196:A:ILE:H	7	0.14
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB1	5	0.14
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB2	5	0.14
(1,896)	1:197:A:LEU:HA	1:199:A:ALA:HB3	5	0.14
(1,892)	1:26:A:VAL:HA	1:36:A:SER:HA	6	0.14
(1,879)	1:121:A:GLU:H	1:119:A:ARG:H	7	0.14
(1,857)	1:185:A:GLU:H	1:187:A:THR:HG21	5	0.14
(1,857)	1:185:A:GLU:H	1:187:A:THR:HG22	5	0.14
(1,857)	1:185:A:GLU:H	1:187:A:THR:HG23	5	0.14
(1,857)	1:185:A:GLU:H	1:187:A:THR:HG21	18	0.14
(1,857)	1:185:A:GLU:H	1:187:A:THR:HG22	18	0.14
(1,857)	1:185:A:GLU:H	1:187:A:THR:HG23	18	0.14
(1,855)	1:192:A:LEU:H	1:50:A:VAL:HG11	2	0.14
(1,855)	1:192:A:LEU:H	1:50:A:VAL:HG12	2	0.14
(1,855)	1:192:A:LEU:H	1:50:A:VAL:HG13	2	0.14
(1,855)	1:192:A:LEU:H	1:50:A:VAL:HG11	8	0.14
(1,855)	1:192:A:LEU:H	1:50:A:VAL:HG12	8	0.14
(1,855)	1:192:A:LEU:H	1:50:A:VAL:HG13	8	0.14
(1,855)	1:192:A:LEU:H	1:50:A:VAL:HG11	10	0.14
(1,855)	1:192:A:LEU:H	1:50:A:VAL:HG12	10	0.14
(1,855)	1:192:A:LEU:H	1:50:A:VAL:HG13	10	0.14
(1,848)	1:67:A:GLN:H	1:65:A:LEU:HD21	8	0.14
(1,848)	1:67:A:GLN:H	1:65:A:LEU:HD22	8	0.14
(1,848)	1:67:A:GLN:H	1:65:A:LEU:HD23	8	0.14
(1,791)	1:94:A:CYS:H	1:115:A:VAL:HG21	2	0.14
(1,791)	1:94:A:CYS:H	1:115:A:VAL:HG22	2	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,791)	1:94:A:CYS:H	1:115:A:VAL:HG23	2	0.14
(1,756)	1:26:A:VAL:HG21	1:37:A:SER:H	5	0.14
(1,756)	1:26:A:VAL:HG22	1:37:A:SER:H	5	0.14
(1,756)	1:26:A:VAL:HG23	1:37:A:SER:H	5	0.14
(1,756)	1:26:A:VAL:HG21	1:37:A:SER:H	10	0.14
(1,756)	1:26:A:VAL:HG22	1:37:A:SER:H	10	0.14
(1,756)	1:26:A:VAL:HG23	1:37:A:SER:H	10	0.14
(1,756)	1:26:A:VAL:HG21	1:37:A:SER:H	20	0.14
(1,756)	1:26:A:VAL:HG22	1:37:A:SER:H	20	0.14
(1,756)	1:26:A:VAL:HG23	1:37:A:SER:H	20	0.14
(1,741)	1:147:A:TYR:H	1:144:A:ILE:HG12	9	0.14
(1,741)	1:147:A:TYR:H	1:144:A:ILE:HG12	18	0.14
(1,736)	1:61:A:LEU:HG	1:56:A:GLU:HG2	20	0.14
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG21	15	0.14
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG22	15	0.14
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG23	15	0.14
(1,709)	1:167:A:LEU:HB3	1:166:A:LYS:HE2	12	0.14
(1,704)	1:109:A:ARG:H	1:97:A:ILE:HG21	2	0.14
(1,704)	1:109:A:ARG:H	1:97:A:ILE:HG22	2	0.14
(1,704)	1:109:A:ARG:H	1:97:A:ILE:HG23	2	0.14
(1,665)	1:167:A:LEU:H	1:54:A:ILE:HB	3	0.14
(1,665)	1:167:A:LEU:H	1:54:A:ILE:HB	13	0.14
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD11	2	0.14
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD12	2	0.14
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD13	2	0.14
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD11	2	0.14
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD12	2	0.14
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD13	2	0.14
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD11	2	0.14
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD12	2	0.14
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD13	2	0.14
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD11	3	0.14
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD12	3	0.14
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD13	3	0.14
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD11	3	0.14
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD12	3	0.14
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD13	3	0.14
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD11	3	0.14
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD12	3	0.14
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD13	3	0.14
(1,647)	1:37:A:SER:H	1:25:A:LYS:HB2	5	0.14
(1,620)	1:101:A:PHE:H	1:98:A:THR:HG21	1	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,620)	1:101:A:PHE:H	1:98:A:THR:HG22	1	0.14
(1,620)	1:101:A:PHE:H	1:98:A:THR:HG23	1	0.14
(1,620)	1:101:A:PHE:H	1:98:A:THR:HG21	15	0.14
(1,620)	1:101:A:PHE:H	1:98:A:THR:HG22	15	0.14
(1,620)	1:101:A:PHE:H	1:98:A:THR:HG23	15	0.14
(1,620)	1:101:A:PHE:H	1:98:A:THR:HG21	17	0.14
(1,620)	1:101:A:PHE:H	1:98:A:THR:HG22	17	0.14
(1,620)	1:101:A:PHE:H	1:98:A:THR:HG23	17	0.14
(1,593)	1:84:A:VAL:H	1:86:A:ARG:HG2	12	0.14
(1,584)	1:33:A:ILE:HG13	1:196:A:ILE:HG21	16	0.14
(1,584)	1:33:A:ILE:HG13	1:196:A:ILE:HG22	16	0.14
(1,584)	1:33:A:ILE:HG13	1:196:A:ILE:HG23	16	0.14
(1,567)	1:156:A:SER:H	1:166:A:LYS:HA	2	0.14
(1,567)	1:156:A:SER:H	1:166:A:LYS:HA	8	0.14
(1,567)	1:156:A:SER:H	1:166:A:LYS:HA	9	0.14
(1,567)	1:156:A:SER:H	1:166:A:LYS:HA	15	0.14
(1,564)	1:173:A:THR:HA	1:171:A:VAL:HG11	5	0.14
(1,564)	1:173:A:THR:HA	1:171:A:VAL:HG12	5	0.14
(1,564)	1:173:A:THR:HA	1:171:A:VAL:HG13	5	0.14
(1,564)	1:173:A:THR:HA	1:171:A:VAL:HG11	20	0.14
(1,564)	1:173:A:THR:HA	1:171:A:VAL:HG12	20	0.14
(1,564)	1:173:A:THR:HA	1:171:A:VAL:HG13	20	0.14
(1,558)	1:34:A:THR:HG21	1:26:A:VAL:H	10	0.14
(1,558)	1:34:A:THR:HG22	1:26:A:VAL:H	10	0.14
(1,558)	1:34:A:THR:HG23	1:26:A:VAL:H	10	0.14
(1,558)	1:34:A:THR:HG21	1:26:A:VAL:H	15	0.14
(1,558)	1:34:A:THR:HG22	1:26:A:VAL:H	15	0.14
(1,558)	1:34:A:THR:HG23	1:26:A:VAL:H	15	0.14
(1,554)	1:61:A:LEU:H	1:59:A:ALA:HA	8	0.14
(1,554)	1:61:A:LEU:H	1:59:A:ALA:HA	14	0.14
(1,539)	1:206:A:HIS:H	1:202:A:GLY:HA3	14	0.14
(1,539)	1:206:A:HIS:H	1:202:A:GLY:HA3	20	0.14
(1,529)	1:28:A:LYS:H	1:35:A:VAL:HB	8	0.14
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD11	17	0.14
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD12	17	0.14
(1,507)	1:3:A:PHE:HZ	1:87:A:ILE:HD13	17	0.14
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD21	7	0.14
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD22	7	0.14
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD23	7	0.14
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD21	18	0.14
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD22	18	0.14
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD23	18	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,383)	1:173:A:THR:H	1:47:A:LEU:HG	20	0.14
(1,365)	1:145:A:ARG:HG3	1:112:A:ILE:HG13	13	0.14
(1,349)	1:205:A:ALA:H	1:201:A:ASP:HA	16	0.14
(1,335)	1:14:A:VAL:H	1:13:A:GLU:HG2	17	0.14
(1,320)	1:25:A:LYS:H	1:25:A:LYS:HE3	6	0.14
(1,317)	1:160:A:GLU:H	1:160:A:GLU:HG3	20	0.14
(1,303)	1:170:A:PHE:HA	1:50:A:VAL:HG11	14	0.14
(1,303)	1:170:A:PHE:HA	1:50:A:VAL:HG12	14	0.14
(1,303)	1:170:A:PHE:HA	1:50:A:VAL:HG13	14	0.14
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG11	7	0.14
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG12	7	0.14
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG13	7	0.14
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG11	7	0.14
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG12	7	0.14
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG13	7	0.14
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG11	7	0.14
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG12	7	0.14
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG13	7	0.14
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG11	9	0.14
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG12	9	0.14
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG13	9	0.14
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG11	9	0.14
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG12	9	0.14
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG13	9	0.14
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG11	9	0.14
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG12	9	0.14
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG13	9	0.14
(1,273)	1:161:A:ASN:H	1:160:A:GLU:HB2	6	0.14
(1,268)	1:43:A:PHE:H	1:44:A:HIS:HA	12	0.14
(1,268)	1:43:A:PHE:H	1:44:A:HIS:HA	14	0.14
(1,251)	1:61:A:LEU:HG	1:203:A:ILE:HG21	1	0.14
(1,251)	1:61:A:LEU:HG	1:203:A:ILE:HG22	1	0.14
(1,251)	1:61:A:LEU:HG	1:203:A:ILE:HG23	1	0.14
(1,251)	1:61:A:LEU:HG	1:203:A:ILE:HG21	18	0.14
(1,251)	1:61:A:LEU:HG	1:203:A:ILE:HG22	18	0.14
(1,251)	1:61:A:LEU:HG	1:203:A:ILE:HG23	18	0.14
(1,218)	1:168:A:VAL:HG21	1:50:A:VAL:HG11	14	0.14
(1,218)	1:168:A:VAL:HG21	1:50:A:VAL:HG12	14	0.14
(1,218)	1:168:A:VAL:HG21	1:50:A:VAL:HG13	14	0.14
(1,218)	1:168:A:VAL:HG22	1:50:A:VAL:HG11	14	0.14
(1,218)	1:168:A:VAL:HG22	1:50:A:VAL:HG12	14	0.14
(1,218)	1:168:A:VAL:HG22	1:50:A:VAL:HG13	14	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,218)	1:168:A:VAL:HG23	1:50:A:VAL:HG11	14	0.14
(1,218)	1:168:A:VAL:HG23	1:50:A:VAL:HG12	14	0.14
(1,218)	1:168:A:VAL:HG23	1:50:A:VAL:HG13	14	0.14
(1,197)	1:144:A:ILE:HG21	1:109:A:ARG:HG2	2	0.14
(1,197)	1:144:A:ILE:HG22	1:109:A:ARG:HG2	2	0.14
(1,197)	1:144:A:ILE:HG23	1:109:A:ARG:HG2	2	0.14
(1,154)	1:197:A:LEU:HD11	1:198:A:ASN:H	3	0.14
(1,154)	1:197:A:LEU:HD12	1:198:A:ASN:H	3	0.14
(1,154)	1:197:A:LEU:HD13	1:198:A:ASN:H	3	0.14
(1,151)	1:129:A:SER:H	1:150:A:PRO:HA	13	0.14
(1,151)	1:129:A:SER:H	1:150:A:PRO:HA	16	0.14
(1,151)	1:129:A:SER:H	1:150:A:PRO:HA	17	0.14
(1,124)	1:53:A:ILE:H	1:53:A:ILE:HD11	12	0.14
(1,124)	1:53:A:ILE:H	1:53:A:ILE:HD12	12	0.14
(1,124)	1:53:A:ILE:H	1:53:A:ILE:HD13	12	0.14
(1,102)	1:73:A:THR:HB	1:72:A:ILE:HG13	19	0.14
(1,77)	1:199:A:ALA:HB1	1:54:A:ILE:HB	2	0.14
(1,77)	1:199:A:ALA:HB2	1:54:A:ILE:HB	2	0.14
(1,77)	1:199:A:ALA:HB3	1:54:A:ILE:HB	2	0.14
(1,5)	1:91:A:THR:HG21	1:116:A:TYR:HB2	20	0.14
(1,5)	1:91:A:THR:HG22	1:116:A:TYR:HB2	20	0.14
(1,5)	1:91:A:THR:HG23	1:116:A:TYR:HB2	20	0.14
(2,119)	1:170:A:PHE:O	1:152:A:GLY:N	10	0.13
(2,119)	1:170:A:PHE:O	1:152:A:GLY:N	19	0.13
(2,118)	1:152:A:GLY:N	1:170:A:PHE:O	10	0.13
(2,118)	1:152:A:GLY:N	1:170:A:PHE:O	19	0.13
(2,71)	1:93:A:ILE:O	1:84:A:VAL:N	8	0.13
(2,70)	1:84:A:VAL:N	1:93:A:ILE:O	8	0.13
(2,64)	1:65:A:LEU:N	1:61:A:LEU:O	7	0.13
(2,64)	1:65:A:LEU:N	1:61:A:LEU:O	9	0.13
(2,63)	1:61:A:LEU:O	1:65:A:LEU:N	7	0.13
(2,63)	1:61:A:LEU:O	1:65:A:LEU:N	9	0.13
(2,20)	1:18:A:ASN:N	1:14:A:VAL:O	18	0.13
(2,19)	1:14:A:VAL:O	1:18:A:ASN:N	18	0.13
(1,4372)	1:206:A:HIS:H	1:203:A:ILE:H	16	0.13
(1,4359)	1:72:A:ILE:HA	1:76:A:LYS:H	3	0.13
(1,4358)	1:71:A:ARG:H	1:74:A:TRP:HD1	7	0.13
(1,4358)	1:71:A:ARG:H	1:74:A:TRP:HD1	8	0.13
(1,4353)	1:187:A:THR:HG21	1:184:A:ILE:HA	16	0.13
(1,4353)	1:187:A:THR:HG22	1:184:A:ILE:HA	16	0.13
(1,4353)	1:187:A:THR:HG23	1:184:A:ILE:HA	16	0.13
(1,4350)	1:21:A:THR:HG21	1:20:A:ASP:HB2	17	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4350)	1:21:A:THR:HG22	1:20:A:ASP:HB2	17	0.13
(1,4350)	1:21:A:THR:HG23	1:20:A:ASP:HB2	17	0.13
(1,4340)	1:40:A:SER:H	1:43:A:PHE:H	9	0.13
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD11	1	0.13
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD12	1	0.13
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD13	1	0.13
(1,4300)	1:76:A:LYS:H	1:76:A:LYS:HE2	11	0.13
(1,4291)	1:91:A:THR:HG21	1:93:A:ILE:HG21	1	0.13
(1,4291)	1:91:A:THR:HG21	1:93:A:ILE:HG22	1	0.13
(1,4291)	1:91:A:THR:HG21	1:93:A:ILE:HG23	1	0.13
(1,4291)	1:91:A:THR:HG22	1:93:A:ILE:HG21	1	0.13
(1,4291)	1:91:A:THR:HG22	1:93:A:ILE:HG22	1	0.13
(1,4291)	1:91:A:THR:HG22	1:93:A:ILE:HG23	1	0.13
(1,4291)	1:91:A:THR:HG23	1:93:A:ILE:HG21	1	0.13
(1,4291)	1:91:A:THR:HG23	1:93:A:ILE:HG22	1	0.13
(1,4291)	1:91:A:THR:HG23	1:93:A:ILE:HG23	1	0.13
(1,4259)	1:140:A:SER:H	1:141:A:SER:HA	13	0.13
(1,4259)	1:140:A:SER:H	1:141:A:SER:HA	17	0.13
(1,4246)	1:144:A:ILE:H	1:110:A:ASP:HA	15	0.13
(1,4234)	1:91:A:THR:H	1:86:A:ARG:HA	4	0.13
(1,4234)	1:91:A:THR:H	1:86:A:ARG:HA	6	0.13
(1,4180)	1:81:A:TYR:H	1:68:A:THR:HA	6	0.13
(1,4176)	1:34:A:THR:HG21	1:33:A:ILE:HA	19	0.13
(1,4176)	1:34:A:THR:HG22	1:33:A:ILE:HA	19	0.13
(1,4176)	1:34:A:THR:HG23	1:33:A:ILE:HA	19	0.13
(1,4175)	1:91:A:THR:H	1:87:A:ILE:HB	4	0.13
(1,4150)	1:121:A:GLU:H	1:122:A:GLY:H	2	0.13
(1,4150)	1:121:A:GLU:H	1:122:A:GLY:H	15	0.13
(1,4150)	1:121:A:GLU:H	1:122:A:GLY:H	18	0.13
(1,4148)	1:203:A:ILE:HG21	1:199:A:ALA:HA	17	0.13
(1,4148)	1:203:A:ILE:HG22	1:199:A:ALA:HA	17	0.13
(1,4148)	1:203:A:ILE:HG23	1:199:A:ALA:HA	17	0.13
(1,4139)	1:18:A:ASN:H	1:17:A:TYR:HB3	7	0.13
(1,4133)	1:28:A:LYS:H	1:37:A:SER:H	8	0.13
(1,4121)	1:196:A:ILE:HD11	1:200:A:LYS:HE3	15	0.13
(1,4121)	1:196:A:ILE:HD12	1:200:A:LYS:HE3	15	0.13
(1,4121)	1:196:A:ILE:HD13	1:200:A:LYS:HE3	15	0.13
(1,4112)	1:40:A:SER:H	1:47:A:LEU:HA	19	0.13
(1,4095)	1:162:A:PRO:HA	1:58:A:PRO:HG2	2	0.13
(1,4095)	1:162:A:PRO:HA	1:58:A:PRO:HG2	7	0.13
(1,4087)	1:207:A:ARG:H	1:204:A:LYS:HB3	15	0.13
(1,4070)	1:42:A:LYS:HD3	1:42:A:LYS:HB3	10	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4066)	1:151:A:CYS:H	1:10:A:THR:HG21	10	0.13
(1,4066)	1:151:A:CYS:H	1:10:A:THR:HG22	10	0.13
(1,4066)	1:151:A:CYS:H	1:10:A:THR:HG23	10	0.13
(1,4066)	1:151:A:CYS:H	1:10:A:THR:HG21	20	0.13
(1,4066)	1:151:A:CYS:H	1:10:A:THR:HG22	20	0.13
(1,4066)	1:151:A:CYS:H	1:10:A:THR:HG23	20	0.13
(1,4064)	1:77:A:SER:H	1:76:A:LYS:HG3	19	0.13
(1,4057)	1:145:A:ARG:H	1:143:A:TYR:HA	5	0.13
(1,4046)	1:183:A:ILE:H	1:184:A:ILE:HB	9	0.13
(1,4046)	1:183:A:ILE:H	1:184:A:ILE:HB	12	0.13
(1,4046)	1:183:A:ILE:H	1:184:A:ILE:HB	16	0.13
(1,4046)	1:183:A:ILE:H	1:184:A:ILE:HB	18	0.13
(1,4005)	1:34:A:THR:H	1:196:A:ILE:HD11	13	0.13
(1,4005)	1:34:A:THR:H	1:196:A:ILE:HD12	13	0.13
(1,4005)	1:34:A:THR:H	1:196:A:ILE:HD13	13	0.13
(1,3965)	1:168:A:VAL:HG11	1:166:A:LYS:HG3	16	0.13
(1,3965)	1:168:A:VAL:HG12	1:166:A:LYS:HG3	16	0.13
(1,3965)	1:168:A:VAL:HG13	1:166:A:LYS:HG3	16	0.13
(1,3936)	1:183:A:ILE:H	1:179:A:LEU:HB2	5	0.13
(1,3918)	1:172:A:GLN:H	1:173:A:THR:HG21	13	0.13
(1,3918)	1:172:A:GLN:H	1:173:A:THR:HG22	13	0.13
(1,3918)	1:172:A:GLN:H	1:173:A:THR:HG23	13	0.13
(1,3865)	1:133:A:ASP:H	1:132:A:VAL:HB	20	0.13
(1,3862)	1:109:A:ARG:HG2	1:144:A:ILE:HG12	16	0.13
(1,3838)	1:176:A:ARG:HA	1:175:A:MET:HB2	2	0.13
(1,3828)	1:164:A:TYR:H	1:161:A:ASN:HA	18	0.13
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG11	6	0.13
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG12	6	0.13
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG13	6	0.13
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG11	12	0.13
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG12	12	0.13
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG13	12	0.13
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG11	20	0.13
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG12	20	0.13
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG13	20	0.13
(1,3808)	1:103:A:VAL:H	1:103:A:VAL:HG21	10	0.13
(1,3808)	1:103:A:VAL:H	1:103:A:VAL:HG22	10	0.13
(1,3808)	1:103:A:VAL:H	1:103:A:VAL:HG23	10	0.13
(1,3774)	1:36:A:SER:H	1:49:A:ARG:HG2	16	0.13
(1,3749)	1:8:A:GLN:H	1:11:A:ALA:H	5	0.13
(1,3717)	1:37:A:SER:H	1:24:A:TRP:HA	5	0.13
(1,3717)	1:37:A:SER:H	1:24:A:TRP:HA	6	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD21	20	0.13
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD22	20	0.13
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD23	20	0.13
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB1	9	0.13
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB2	9	0.13
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB3	9	0.13
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB1	12	0.13
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB2	12	0.13
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB3	12	0.13
(1,3706)	1:112:A:ILE:HD11	1:134:A:PHE:H	1	0.13
(1,3706)	1:112:A:ILE:HD12	1:134:A:PHE:H	1	0.13
(1,3706)	1:112:A:ILE:HD13	1:134:A:PHE:H	1	0.13
(1,3706)	1:112:A:ILE:HD11	1:134:A:PHE:H	15	0.13
(1,3706)	1:112:A:ILE:HD12	1:134:A:PHE:H	15	0.13
(1,3706)	1:112:A:ILE:HD13	1:134:A:PHE:H	15	0.13
(1,3704)	1:134:A:PHE:HB3	1:132:A:VAL:HG21	3	0.13
(1,3704)	1:134:A:PHE:HB3	1:132:A:VAL:HG22	3	0.13
(1,3704)	1:134:A:PHE:HB3	1:132:A:VAL:HG23	3	0.13
(1,3701)	1:180:A:SER:H	1:179:A:LEU:H	14	0.13
(1,3694)	1:80:A:VAL:HG21	1:79:A:GLN:HG3	8	0.13
(1,3694)	1:80:A:VAL:HG22	1:79:A:GLN:HG3	8	0.13
(1,3694)	1:80:A:VAL:HG23	1:79:A:GLN:HG3	8	0.13
(1,3694)	1:80:A:VAL:HG21	1:79:A:GLN:HG3	15	0.13
(1,3694)	1:80:A:VAL:HG22	1:79:A:GLN:HG3	15	0.13
(1,3694)	1:80:A:VAL:HG23	1:79:A:GLN:HG3	15	0.13
(1,3694)	1:80:A:VAL:HG21	1:79:A:GLN:HG3	16	0.13
(1,3694)	1:80:A:VAL:HG22	1:79:A:GLN:HG3	16	0.13
(1,3694)	1:80:A:VAL:HG23	1:79:A:GLN:HG3	16	0.13
(1,3646)	1:54:A:ILE:HD11	1:203:A:ILE:HG21	20	0.13
(1,3646)	1:54:A:ILE:HD11	1:203:A:ILE:HG22	20	0.13
(1,3646)	1:54:A:ILE:HD11	1:203:A:ILE:HG23	20	0.13
(1,3646)	1:54:A:ILE:HD12	1:203:A:ILE:HG21	20	0.13
(1,3646)	1:54:A:ILE:HD12	1:203:A:ILE:HG22	20	0.13
(1,3646)	1:54:A:ILE:HD12	1:203:A:ILE:HG23	20	0.13
(1,3646)	1:54:A:ILE:HD13	1:203:A:ILE:HG21	20	0.13
(1,3646)	1:54:A:ILE:HD13	1:203:A:ILE:HG22	20	0.13
(1,3646)	1:54:A:ILE:HD13	1:203:A:ILE:HG23	20	0.13
(1,3635)	1:196:A:ILE:HD11	1:192:A:LEU:HB3	11	0.13
(1,3635)	1:196:A:ILE:HD12	1:192:A:LEU:HB3	11	0.13
(1,3635)	1:196:A:ILE:HD13	1:192:A:LEU:HB3	11	0.13
(1,3635)	1:196:A:ILE:HD11	1:192:A:LEU:HB3	18	0.13
(1,3635)	1:196:A:ILE:HD12	1:192:A:LEU:HB3	18	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3635)	1:196:A:ILE:HD13	1:192:A:LEU:HB3	18	0.13
(1,3599)	1:131:A:SER:H	1:132:A:VAL:HA	2	0.13
(1,3573)	1:184:A:ILE:H	1:187:A:THR:H	13	0.13
(1,3573)	1:184:A:ILE:H	1:187:A:THR:H	19	0.13
(1,3572)	1:184:A:ILE:H	1:186:A:LYS:HE3	11	0.13
(1,3566)	1:134:A:PHE:HB3	1:132:A:VAL:HB	20	0.13
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB1	4	0.13
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB2	4	0.13
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB3	4	0.13
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB1	20	0.13
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB2	20	0.13
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB3	20	0.13
(1,3549)	1:76:A:LYS:H	1:198:A:ASN:H	12	0.13
(1,3525)	1:68:A:THR:HG21	1:69:A:GLY:HA3	12	0.13
(1,3525)	1:68:A:THR:HG22	1:69:A:GLY:HA3	12	0.13
(1,3525)	1:68:A:THR:HG23	1:69:A:GLY:HA3	12	0.13
(1,3467)	1:99:A:GLN:HA	1:79:A:GLN:HG3	15	0.13
(1,3465)	1:71:A:ARG:HB2	1:65:A:LEU:HD11	6	0.13
(1,3465)	1:71:A:ARG:HB2	1:65:A:LEU:HD12	6	0.13
(1,3465)	1:71:A:ARG:HB2	1:65:A:LEU:HD13	6	0.13
(1,3421)	1:99:A:GLN:H	1:109:A:ARG:H	14	0.13
(1,3419)	1:203:A:ILE:HG21	1:207:A:ARG:H	18	0.13
(1,3419)	1:203:A:ILE:HG22	1:207:A:ARG:H	18	0.13
(1,3419)	1:203:A:ILE:HG23	1:207:A:ARG:H	18	0.13
(1,3410)	1:167:A:LEU:H	1:52:A:GLY:HA2	11	0.13
(1,3408)	1:120:A:TYR:H	1:118:A:LYS:HA	15	0.13
(1,3402)	1:66:A:TYR:H	1:65:A:LEU:HD11	17	0.13
(1,3402)	1:66:A:TYR:H	1:65:A:LEU:HD12	17	0.13
(1,3402)	1:66:A:TYR:H	1:65:A:LEU:HD13	17	0.13
(1,3360)	1:116:A:TYR:H	1:114:A:LEU:HG	6	0.13
(1,3360)	1:116:A:TYR:H	1:114:A:LEU:HG	13	0.13
(1,3360)	1:116:A:TYR:H	1:114:A:LEU:HG	14	0.13
(1,3360)	1:116:A:TYR:H	1:114:A:LEU:HG	18	0.13
(1,3290)	1:77:A:SER:H	1:99:A:GLN:H	16	0.13
(1,3284)	1:26:A:VAL:H	1:25:A:LYS:HG2	9	0.13
(1,3282)	1:61:A:LEU:HD11	1:56:A:GLU:H	8	0.13
(1,3282)	1:61:A:LEU:HD12	1:56:A:GLU:H	8	0.13
(1,3282)	1:61:A:LEU:HD13	1:56:A:GLU:H	8	0.13
(1,3260)	1:201:A:ASP:H	1:199:A:ALA:HA	18	0.13
(1,3260)	1:201:A:ASP:H	1:199:A:ALA:HA	19	0.13
(1,3250)	1:71:A:ARG:H	1:68:A:THR:HA	3	0.13
(1,3250)	1:71:A:ARG:H	1:68:A:THR:HA	7	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3196)	1:36:A:SER:HA	1:24:A:TRP:HE1	13	0.13
(1,3142)	1:114:A:LEU:HD11	1:87:A:ILE:HG21	19	0.13
(1,3142)	1:114:A:LEU:HD11	1:87:A:ILE:HG22	19	0.13
(1,3142)	1:114:A:LEU:HD11	1:87:A:ILE:HG23	19	0.13
(1,3142)	1:114:A:LEU:HD12	1:87:A:ILE:HG21	19	0.13
(1,3142)	1:114:A:LEU:HD12	1:87:A:ILE:HG22	19	0.13
(1,3142)	1:114:A:LEU:HD12	1:87:A:ILE:HG23	19	0.13
(1,3142)	1:114:A:LEU:HD13	1:87:A:ILE:HG21	19	0.13
(1,3142)	1:114:A:LEU:HD13	1:87:A:ILE:HG22	19	0.13
(1,3142)	1:114:A:LEU:HD13	1:87:A:ILE:HG23	19	0.13
(1,3138)	1:76:A:LYS:HE3	1:76:A:LYS:HB2	13	0.13
(1,3127)	1:43:A:PHE:H	1:41:A:ARG:HA	14	0.13
(1,3108)	1:204:A:LYS:HA	1:204:A:LYS:HD3	3	0.13
(1,3108)	1:204:A:LYS:HA	1:204:A:LYS:HD3	12	0.13
(1,3108)	1:204:A:LYS:HA	1:204:A:LYS:HD3	13	0.13
(1,3082)	1:92:A:PHE:H	1:87:A:ILE:HG13	20	0.13
(1,2915)	1:28:A:LYS:H	1:29:A:THR:HG21	13	0.13
(1,2915)	1:28:A:LYS:H	1:29:A:THR:HG22	13	0.13
(1,2915)	1:28:A:LYS:H	1:29:A:THR:HG23	13	0.13
(1,2834)	1:207:A:ARG:H	1:207:A:ARG:HG3	9	0.13
(1,2832)	1:126:A:ILE:H	1:154:A:VAL:HB	5	0.13
(1,2770)	1:98:A:THR:H	1:109:A:ARG:HB2	8	0.13
(1,2762)	1:197:A:LEU:H	1:200:A:LYS:H	2	0.13
(1,2762)	1:197:A:LEU:H	1:200:A:LYS:H	10	0.13
(1,2762)	1:197:A:LEU:H	1:200:A:LYS:H	13	0.13
(1,2762)	1:197:A:LEU:H	1:200:A:LYS:H	16	0.13
(1,2698)	1:132:A:VAL:H	1:130:A:LYS:H	7	0.13
(1,2698)	1:132:A:VAL:H	1:130:A:LYS:H	9	0.13
(1,2697)	1:31:A:LYS:H	1:32:A:LYS:HA	14	0.13
(1,2688)	1:79:A:GLN:HB2	1:99:A:GLN:HA	9	0.13
(1,2649)	1:54:A:ILE:HG13	1:200:A:LYS:H	10	0.13
(1,2606)	1:159:A:GLU:HA	1:158:A:MET:HB3	3	0.13
(1,2545)	1:84:A:VAL:H	1:95:A:HIS:HA	1	0.13
(1,2545)	1:84:A:VAL:H	1:95:A:HIS:HA	3	0.13
(1,2545)	1:84:A:VAL:H	1:95:A:HIS:HA	10	0.13
(1,2545)	1:84:A:VAL:H	1:95:A:HIS:HA	15	0.13
(1,2520)	1:27:A:VAL:H	1:28:A:LYS:HA	15	0.13
(1,2520)	1:27:A:VAL:H	1:28:A:LYS:HA	20	0.13
(1,2513)	1:60:A:LYS:H	1:61:A:LEU:HD21	4	0.13
(1,2513)	1:60:A:LYS:H	1:61:A:LEU:HD22	4	0.13
(1,2513)	1:60:A:LYS:H	1:61:A:LEU:HD23	4	0.13
(1,2513)	1:60:A:LYS:H	1:61:A:LEU:HD21	18	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2513)	1:60:A:LYS:H	1:61:A:LEU:HD22	18	0.13
(1,2513)	1:60:A:LYS:H	1:61:A:LEU:HD23	18	0.13
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD21	11	0.13
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD22	11	0.13
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD23	11	0.13
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD21	16	0.13
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD22	16	0.13
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD23	16	0.13
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB1	10	0.13
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB2	10	0.13
(1,2399)	1:57:A:SER:H	1:59:A:ALA:HB3	10	0.13
(1,2351)	1:80:A:VAL:H	1:81:A:TYR:HB3	15	0.13
(1,2351)	1:80:A:VAL:H	1:81:A:TYR:HB3	18	0.13
(1,2333)	1:53:A:ILE:HG21	1:54:A:ILE:HB	1	0.13
(1,2333)	1:53:A:ILE:HG22	1:54:A:ILE:HB	1	0.13
(1,2333)	1:53:A:ILE:HG23	1:54:A:ILE:HB	1	0.13
(1,2284)	1:34:A:THR:HG21	1:26:A:VAL:HG21	15	0.13
(1,2284)	1:34:A:THR:HG21	1:26:A:VAL:HG22	15	0.13
(1,2284)	1:34:A:THR:HG21	1:26:A:VAL:HG23	15	0.13
(1,2284)	1:34:A:THR:HG22	1:26:A:VAL:HG21	15	0.13
(1,2284)	1:34:A:THR:HG22	1:26:A:VAL:HG22	15	0.13
(1,2284)	1:34:A:THR:HG22	1:26:A:VAL:HG23	15	0.13
(1,2284)	1:34:A:THR:HG23	1:26:A:VAL:HG21	15	0.13
(1,2284)	1:34:A:THR:HG23	1:26:A:VAL:HG22	15	0.13
(1,2284)	1:34:A:THR:HG23	1:26:A:VAL:HG23	15	0.13
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG11	10	0.13
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG12	10	0.13
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG13	10	0.13
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG11	10	0.13
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG12	10	0.13
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG13	10	0.13
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG11	10	0.13
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG12	10	0.13
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG13	10	0.13
(1,2252)	1:6:A:ILE:H	1:8:A:GLN:HG3	6	0.13
(1,2252)	1:6:A:ILE:H	1:8:A:GLN:HG3	15	0.13
(1,2252)	1:6:A:ILE:H	1:8:A:GLN:HG3	19	0.13
(1,2250)	1:102:A:ALA:HB1	1:183:A:ILE:HD11	6	0.13
(1,2250)	1:102:A:ALA:HB1	1:183:A:ILE:HD12	6	0.13
(1,2250)	1:102:A:ALA:HB1	1:183:A:ILE:HD13	6	0.13
(1,2250)	1:102:A:ALA:HB2	1:183:A:ILE:HD11	6	0.13
(1,2250)	1:102:A:ALA:HB2	1:183:A:ILE:HD12	6	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2250)	1:102:A:ALA:HB2	1:183:A:ILE:HD13	6	0.13
(1,2250)	1:102:A:ALA:HB3	1:183:A:ILE:HD11	6	0.13
(1,2250)	1:102:A:ALA:HB3	1:183:A:ILE:HD12	6	0.13
(1,2250)	1:102:A:ALA:HB3	1:183:A:ILE:HD13	6	0.13
(1,2179)	1:95:A:HIS:H	1:82:A:ASN:HB3	11	0.13
(1,2179)	1:95:A:HIS:H	1:82:A:ASN:HB3	18	0.13
(1,2172)	1:174:A:GLU:H	1:174:A:GLU:HG2	6	0.13
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD11	19	0.13
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD12	19	0.13
(1,2147)	1:2:A:ASP:H	1:6:A:ILE:HD13	19	0.13
(1,2144)	1:170:A:PHE:H	1:169:A:MET:H	17	0.13
(1,2137)	1:198:A:ASN:H	1:196:A:ILE:HA	12	0.13
(1,2137)	1:198:A:ASN:H	1:196:A:ILE:HA	16	0.13
(1,2128)	1:66:A:TYR:H	1:71:A:ARG:H	11	0.13
(1,2107)	1:134:A:PHE:H	1:134:A:PHE:HZ	13	0.13
(1,2099)	1:188:A:MET:HA	1:188:A:MET:HE1	13	0.13
(1,2099)	1:188:A:MET:HA	1:188:A:MET:HE2	13	0.13
(1,2099)	1:188:A:MET:HA	1:188:A:MET:HE3	13	0.13
(1,2043)	1:65:A:LEU:HD11	1:67:A:GLN:H	16	0.13
(1,2043)	1:65:A:LEU:HD12	1:67:A:GLN:H	16	0.13
(1,2043)	1:65:A:LEU:HD13	1:67:A:GLN:H	16	0.13
(1,2018)	1:48:A:TYR:H	1:49:A:ARG:HA	7	0.13
(1,2003)	1:184:A:ILE:HA	1:187:A:THR:HG21	16	0.13
(1,2003)	1:184:A:ILE:HA	1:187:A:THR:HG22	16	0.13
(1,2003)	1:184:A:ILE:HA	1:187:A:THR:HG23	16	0.13
(1,1937)	1:176:A:ARG:H	1:174:A:GLU:HA	6	0.13
(1,1933)	1:80:A:VAL:H	1:78:A:LEU:HD21	1	0.13
(1,1933)	1:80:A:VAL:H	1:78:A:LEU:HD22	1	0.13
(1,1933)	1:80:A:VAL:H	1:78:A:LEU:HD23	1	0.13
(1,1924)	1:6:A:ILE:HD11	1:5:A:ALA:HA	4	0.13
(1,1924)	1:6:A:ILE:HD12	1:5:A:ALA:HA	4	0.13
(1,1924)	1:6:A:ILE:HD13	1:5:A:ALA:HA	4	0.13
(1,1924)	1:6:A:ILE:HD11	1:5:A:ALA:HA	20	0.13
(1,1924)	1:6:A:ILE:HD12	1:5:A:ALA:HA	20	0.13
(1,1924)	1:6:A:ILE:HD13	1:5:A:ALA:HA	20	0.13
(1,1891)	1:66:A:TYR:H	1:62:A:SER:HA	19	0.13
(1,1869)	1:65:A:LEU:H	1:64:A:PHE:HZ	4	0.13
(1,1869)	1:65:A:LEU:H	1:64:A:PHE:HZ	15	0.13
(1,1836)	1:81:A:TYR:H	1:72:A:ILE:HG12	6	0.13
(1,1822)	1:56:A:GLU:H	1:53:A:ILE:HG21	8	0.13
(1,1822)	1:56:A:GLU:H	1:53:A:ILE:HG22	8	0.13
(1,1822)	1:56:A:GLU:H	1:53:A:ILE:HG23	8	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1822)	1:56:A:GLU:H	1:53:A:ILE:HG21	15	0.13
(1,1822)	1:56:A:GLU:H	1:53:A:ILE:HG22	15	0.13
(1,1822)	1:56:A:GLU:H	1:53:A:ILE:HG23	15	0.13
(1,1822)	1:56:A:GLU:H	1:53:A:ILE:HG21	19	0.13
(1,1822)	1:56:A:GLU:H	1:53:A:ILE:HG22	19	0.13
(1,1822)	1:56:A:GLU:H	1:53:A:ILE:HG23	19	0.13
(1,1804)	1:165:A:SER:H	1:55:A:PRO:HD3	2	0.13
(1,1804)	1:165:A:SER:H	1:55:A:PRO:HD3	9	0.13
(1,1777)	1:130:A:LYS:H	1:131:A:SER:HA	6	0.13
(1,1771)	1:63:A:ASP:H	1:61:A:LEU:HB2	9	0.13
(1,1771)	1:63:A:ASP:H	1:61:A:LEU:HB2	16	0.13
(1,1771)	1:63:A:ASP:H	1:61:A:LEU:HB2	18	0.13
(1,1763)	1:100:A:SER:H	1:101:A:PHE:HA	1	0.13
(1,1762)	1:96:A:THR:HG21	1:95:A:HIS:H	9	0.13
(1,1762)	1:96:A:THR:HG22	1:95:A:HIS:H	9	0.13
(1,1762)	1:96:A:THR:HG23	1:95:A:HIS:H	9	0.13
(1,1762)	1:96:A:THR:HG21	1:95:A:HIS:H	14	0.13
(1,1762)	1:96:A:THR:HG22	1:95:A:HIS:H	14	0.13
(1,1762)	1:96:A:THR:HG23	1:95:A:HIS:H	14	0.13
(1,1707)	1:167:A:LEU:H	1:53:A:ILE:HG21	17	0.13
(1,1707)	1:167:A:LEU:H	1:53:A:ILE:HG22	17	0.13
(1,1707)	1:167:A:LEU:H	1:53:A:ILE:HG23	17	0.13
(1,1694)	1:137:A:TYR:HB3	1:136:A:GLU:HG3	8	0.13
(1,1585)	1:184:A:ILE:HG21	1:188:A:MET:HE1	18	0.13
(1,1585)	1:184:A:ILE:HG21	1:188:A:MET:HE2	18	0.13
(1,1585)	1:184:A:ILE:HG21	1:188:A:MET:HE3	18	0.13
(1,1585)	1:184:A:ILE:HG22	1:188:A:MET:HE1	18	0.13
(1,1585)	1:184:A:ILE:HG22	1:188:A:MET:HE2	18	0.13
(1,1585)	1:184:A:ILE:HG22	1:188:A:MET:HE3	18	0.13
(1,1585)	1:184:A:ILE:HG23	1:188:A:MET:HE1	18	0.13
(1,1585)	1:184:A:ILE:HG23	1:188:A:MET:HE2	18	0.13
(1,1585)	1:184:A:ILE:HG23	1:188:A:MET:HE3	18	0.13
(1,1581)	1:22:A:SER:H	1:21:A:THR:HG21	12	0.13
(1,1581)	1:22:A:SER:H	1:21:A:THR:HG22	12	0.13
(1,1581)	1:22:A:SER:H	1:21:A:THR:HG23	12	0.13
(1,1489)	1:175:A:MET:H	1:109:A:ARG:HD3	20	0.13
(1,1471)	1:201:A:ASP:H	1:203:A:ILE:HB	4	0.13
(1,1455)	1:110:A:ASP:H	1:144:A:ILE:HD11	17	0.13
(1,1455)	1:110:A:ASP:H	1:144:A:ILE:HD12	17	0.13
(1,1455)	1:110:A:ASP:H	1:144:A:ILE:HD13	17	0.13
(1,1451)	1:114:A:LEU:HD11	1:93:A:ILE:HB	9	0.13
(1,1451)	1:114:A:LEU:HD12	1:93:A:ILE:HB	9	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1451)	1:114:A:LEU:HD13	1:93:A:ILE:HB	9	0.13
(1,1451)	1:114:A:LEU:HD11	1:93:A:ILE:HB	12	0.13
(1,1451)	1:114:A:LEU:HD12	1:93:A:ILE:HB	12	0.13
(1,1451)	1:114:A:LEU:HD13	1:93:A:ILE:HB	12	0.13
(1,1431)	1:203:A:ILE:HD11	1:60:A:LYS:HD3	17	0.13
(1,1431)	1:203:A:ILE:HD12	1:60:A:LYS:HD3	17	0.13
(1,1431)	1:203:A:ILE:HD13	1:60:A:LYS:HD3	17	0.13
(1,1353)	1:15:A:LEU:H	1:14:A:VAL:HG21	14	0.13
(1,1353)	1:15:A:LEU:H	1:14:A:VAL:HG22	14	0.13
(1,1353)	1:15:A:LEU:H	1:14:A:VAL:HG23	14	0.13
(1,1329)	1:165:A:SER:H	1:57:A:SER:HA	16	0.13
(1,1310)	1:42:A:LYS:H	1:42:A:LYS:HE2	16	0.13
(1,1302)	1:198:A:ASN:H	1:76:A:LYS:HG3	12	0.13
(1,1295)	1:203:A:ILE:HG21	1:204:A:LYS:HB3	7	0.13
(1,1295)	1:203:A:ILE:HG22	1:204:A:LYS:HB3	7	0.13
(1,1295)	1:203:A:ILE:HG23	1:204:A:LYS:HB3	7	0.13
(1,1281)	1:77:A:SER:H	1:78:A:LEU:HA	19	0.13
(1,1174)	1:126:A:ILE:HD11	1:152:A:GLY:H	14	0.13
(1,1174)	1:126:A:ILE:HD12	1:152:A:GLY:H	14	0.13
(1,1174)	1:126:A:ILE:HD13	1:152:A:GLY:H	14	0.13
(1,1174)	1:126:A:ILE:HD11	1:152:A:GLY:H	15	0.13
(1,1174)	1:126:A:ILE:HD12	1:152:A:GLY:H	15	0.13
(1,1174)	1:126:A:ILE:HD13	1:152:A:GLY:H	15	0.13
(1,1174)	1:126:A:ILE:HD11	1:152:A:GLY:H	19	0.13
(1,1174)	1:126:A:ILE:HD12	1:152:A:GLY:H	19	0.13
(1,1174)	1:126:A:ILE:HD13	1:152:A:GLY:H	19	0.13
(1,1151)	1:18:A:ASN:HB2	1:49:A:ARG:HG3	12	0.13
(1,1139)	1:103:A:VAL:H	1:101:A:PHE:HA	7	0.13
(1,1139)	1:103:A:VAL:H	1:101:A:PHE:HA	15	0.13
(1,1130)	1:101:A:PHE:H	1:100:A:SER:HB3	17	0.13
(1,1123)	1:193:A:VAL:H	1:191:A:ASN:HA	9	0.13
(1,1078)	1:199:A:ALA:HB1	1:203:A:ILE:HG21	15	0.13
(1,1078)	1:199:A:ALA:HB1	1:203:A:ILE:HG22	15	0.13
(1,1078)	1:199:A:ALA:HB1	1:203:A:ILE:HG23	15	0.13
(1,1078)	1:199:A:ALA:HB2	1:203:A:ILE:HG21	15	0.13
(1,1078)	1:199:A:ALA:HB2	1:203:A:ILE:HG22	15	0.13
(1,1078)	1:199:A:ALA:HB2	1:203:A:ILE:HG23	15	0.13
(1,1078)	1:199:A:ALA:HB3	1:203:A:ILE:HG21	15	0.13
(1,1078)	1:199:A:ALA:HB3	1:203:A:ILE:HG22	15	0.13
(1,1078)	1:199:A:ALA:HB3	1:203:A:ILE:HG23	15	0.13
(1,1067)	1:70:A:ASP:HB3	1:73:A:THR:H	1	0.13
(1,1066)	1:144:A:ILE:HA	1:109:A:ARG:HG2	15	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1033)	1:144:A:ILE:H	1:109:A:ARG:HD3	1	0.13
(1,1033)	1:144:A:ILE:H	1:109:A:ARG:HD3	9	0.13
(1,1029)	1:80:A:VAL:HG21	1:79:A:GLN:HA	13	0.13
(1,1029)	1:80:A:VAL:HG22	1:79:A:GLN:HA	13	0.13
(1,1029)	1:80:A:VAL:HG23	1:79:A:GLN:HA	13	0.13
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB1	9	0.13
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB2	9	0.13
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB3	9	0.13
(1,958)	1:76:A:LYS:HE2	1:76:A:LYS:HG3	5	0.13
(1,955)	1:196:A:ILE:HD11	1:167:A:LEU:HG	6	0.13
(1,955)	1:196:A:ILE:HD12	1:167:A:LEU:HG	6	0.13
(1,955)	1:196:A:ILE:HD13	1:167:A:LEU:HG	6	0.13
(1,955)	1:196:A:ILE:HD11	1:167:A:LEU:HG	9	0.13
(1,955)	1:196:A:ILE:HD12	1:167:A:LEU:HG	9	0.13
(1,955)	1:196:A:ILE:HD13	1:167:A:LEU:HG	9	0.13
(1,955)	1:196:A:ILE:HD11	1:167:A:LEU:HG	11	0.13
(1,955)	1:196:A:ILE:HD12	1:167:A:LEU:HG	11	0.13
(1,955)	1:196:A:ILE:HD13	1:167:A:LEU:HG	11	0.13
(1,955)	1:196:A:ILE:HD11	1:167:A:LEU:HG	15	0.13
(1,955)	1:196:A:ILE:HD12	1:167:A:LEU:HG	15	0.13
(1,955)	1:196:A:ILE:HD13	1:167:A:LEU:HG	15	0.13
(1,955)	1:196:A:ILE:HD11	1:167:A:LEU:HG	17	0.13
(1,955)	1:196:A:ILE:HD12	1:167:A:LEU:HG	17	0.13
(1,955)	1:196:A:ILE:HD13	1:167:A:LEU:HG	17	0.13
(1,955)	1:196:A:ILE:HD11	1:167:A:LEU:HG	19	0.13
(1,955)	1:196:A:ILE:HD12	1:167:A:LEU:HG	19	0.13
(1,955)	1:196:A:ILE:HD13	1:167:A:LEU:HG	19	0.13
(1,934)	1:184:A:ILE:H	1:187:A:THR:HG21	13	0.13
(1,934)	1:184:A:ILE:H	1:187:A:THR:HG22	13	0.13
(1,934)	1:184:A:ILE:H	1:187:A:THR:HG23	13	0.13
(1,934)	1:184:A:ILE:H	1:187:A:THR:HG21	14	0.13
(1,934)	1:184:A:ILE:H	1:187:A:THR:HG22	14	0.13
(1,934)	1:184:A:ILE:H	1:187:A:THR:HG23	14	0.13
(1,923)	1:196:A:ILE:HG21	1:193:A:VAL:HB	1	0.13
(1,923)	1:196:A:ILE:HG22	1:193:A:VAL:HB	1	0.13
(1,923)	1:196:A:ILE:HG23	1:193:A:VAL:HB	1	0.13
(1,906)	1:98:A:THR:HG21	1:96:A:THR:HG21	1	0.13
(1,906)	1:98:A:THR:HG21	1:96:A:THR:HG22	1	0.13
(1,906)	1:98:A:THR:HG21	1:96:A:THR:HG23	1	0.13
(1,906)	1:98:A:THR:HG22	1:96:A:THR:HG21	1	0.13
(1,906)	1:98:A:THR:HG22	1:96:A:THR:HG22	1	0.13
(1,906)	1:98:A:THR:HG22	1:96:A:THR:HG23	1	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,906)	1:98:A:THR:HG23	1:96:A:THR:HG21	1	0.13
(1,906)	1:98:A:THR:HG23	1:96:A:THR:HG22	1	0.13
(1,906)	1:98:A:THR:HG23	1:96:A:THR:HG23	1	0.13
(1,903)	1:194:A:ASN:HA	1:196:A:ILE:H	10	0.13
(1,903)	1:194:A:ASN:HA	1:196:A:ILE:H	17	0.13
(1,899)	1:207:A:ARG:HD2	1:207:A:ARG:H	18	0.13
(1,895)	1:71:A:ARG:H	1:69:A:GLY:HA3	2	0.13
(1,892)	1:26:A:VAL:HA	1:36:A:SER:HA	13	0.13
(1,879)	1:121:A:GLU:H	1:119:A:ARG:H	5	0.13
(1,878)	1:180:A:SER:H	1:184:A:ILE:HB	2	0.13
(1,878)	1:180:A:SER:H	1:184:A:ILE:HB	6	0.13
(1,858)	1:101:A:PHE:H	1:102:A:ALA:H	15	0.13
(1,857)	1:185:A:GLU:H	1:187:A:THR:HG21	1	0.13
(1,857)	1:185:A:GLU:H	1:187:A:THR:HG22	1	0.13
(1,857)	1:185:A:GLU:H	1:187:A:THR:HG23	1	0.13
(1,857)	1:185:A:GLU:H	1:187:A:THR:HG21	3	0.13
(1,857)	1:185:A:GLU:H	1:187:A:THR:HG22	3	0.13
(1,857)	1:185:A:GLU:H	1:187:A:THR:HG23	3	0.13
(1,855)	1:192:A:LEU:H	1:50:A:VAL:HG11	1	0.13
(1,855)	1:192:A:LEU:H	1:50:A:VAL:HG12	1	0.13
(1,855)	1:192:A:LEU:H	1:50:A:VAL:HG13	1	0.13
(1,855)	1:192:A:LEU:H	1:50:A:VAL:HG11	15	0.13
(1,855)	1:192:A:LEU:H	1:50:A:VAL:HG12	15	0.13
(1,855)	1:192:A:LEU:H	1:50:A:VAL:HG13	15	0.13
(1,812)	1:205:A:ALA:H	1:208:A:THR:H	7	0.13
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG11	6	0.13
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG12	6	0.13
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG13	6	0.13
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG11	16	0.13
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG12	16	0.13
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG13	16	0.13
(1,791)	1:94:A:CYS:H	1:115:A:VAL:HG21	15	0.13
(1,791)	1:94:A:CYS:H	1:115:A:VAL:HG22	15	0.13
(1,791)	1:94:A:CYS:H	1:115:A:VAL:HG23	15	0.13
(1,789)	1:176:A:ARG:HA	1:174:A:GLU:HG2	13	0.13
(1,788)	1:208:A:THR:HG21	1:204:A:LYS:HB2	13	0.13
(1,788)	1:208:A:THR:HG22	1:204:A:LYS:HB2	13	0.13
(1,788)	1:208:A:THR:HG23	1:204:A:LYS:HB2	13	0.13
(1,736)	1:61:A:LEU:HG	1:56:A:GLU:HG2	15	0.13
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG21	14	0.13
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG22	14	0.13
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG23	14	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,709)	1:167:A:LEU:HB3	1:166:A:LYS:HE2	20	0.13
(1,704)	1:109:A:ARG:H	1:97:A:ILE:HG21	8	0.13
(1,704)	1:109:A:ARG:H	1:97:A:ILE:HG22	8	0.13
(1,704)	1:109:A:ARG:H	1:97:A:ILE:HG23	8	0.13
(1,685)	1:204:A:LYS:H	1:203:A:ILE:HG12	17	0.13
(1,665)	1:167:A:LEU:H	1:54:A:ILE:HB	5	0.13
(1,665)	1:167:A:LEU:H	1:54:A:ILE:HB	16	0.13
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD11	8	0.13
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD12	8	0.13
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD13	8	0.13
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD11	8	0.13
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD12	8	0.13
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD13	8	0.13
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD11	8	0.13
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD12	8	0.13
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD13	8	0.13
(1,647)	1:37:A:SER:H	1:25:A:LYS:HB2	14	0.13
(1,599)	1:39:A:ALA:H	1:46:A:ASN:HB3	17	0.13
(1,584)	1:33:A:ILE:HG13	1:196:A:ILE:HG21	20	0.13
(1,584)	1:33:A:ILE:HG13	1:196:A:ILE:HG22	20	0.13
(1,584)	1:33:A:ILE:HG13	1:196:A:ILE:HG23	20	0.13
(1,539)	1:206:A:HIS:H	1:202:A:GLY:HA3	13	0.13
(1,415)	1:184:A:ILE:HD11	1:187:A:THR:HB	15	0.13
(1,415)	1:184:A:ILE:HD12	1:187:A:THR:HB	15	0.13
(1,415)	1:184:A:ILE:HD13	1:187:A:THR:HB	15	0.13
(1,383)	1:173:A:THR:H	1:47:A:LEU:HG	14	0.13
(1,352)	1:3:A:PHE:HZ	1:3:A:PHE:H	1	0.13
(1,352)	1:3:A:PHE:HZ	1:3:A:PHE:H	14	0.13
(1,349)	1:205:A:ALA:H	1:201:A:ASP:HA	5	0.13
(1,349)	1:205:A:ALA:H	1:201:A:ASP:HA	19	0.13
(1,317)	1:160:A:GLU:H	1:160:A:GLU:HG3	15	0.13
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG11	2	0.13
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG12	2	0.13
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG13	2	0.13
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG11	2	0.13
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG12	2	0.13
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG13	2	0.13
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG11	2	0.13
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG12	2	0.13
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG13	2	0.13
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG11	15	0.13
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG12	15	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG13	15	0.13
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG11	15	0.13
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG12	15	0.13
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG13	15	0.13
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG11	15	0.13
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG12	15	0.13
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG13	15	0.13
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG11	20	0.13
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG12	20	0.13
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG13	20	0.13
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG11	20	0.13
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG12	20	0.13
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG13	20	0.13
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG11	20	0.13
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG12	20	0.13
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG13	20	0.13
(1,273)	1:161:A:ASN:H	1:160:A:GLU:HB2	13	0.13
(1,273)	1:161:A:ASN:H	1:160:A:GLU:HB2	20	0.13
(1,268)	1:43:A:PHE:H	1:44:A:HIS:HA	17	0.13
(1,251)	1:61:A:LEU:HG	1:203:A:ILE:HG21	9	0.13
(1,251)	1:61:A:LEU:HG	1:203:A:ILE:HG22	9	0.13
(1,251)	1:61:A:LEU:HG	1:203:A:ILE:HG23	9	0.13
(1,240)	1:128:A:SER:H	1:126:A:ILE:HB	3	0.13
(1,211)	1:42:A:LYS:HB2	1:40:A:SER:HB3	1	0.13
(1,199)	1:10:A:THR:HG21	1:8:A:GLN:H	7	0.13
(1,199)	1:10:A:THR:HG22	1:8:A:GLN:H	7	0.13
(1,199)	1:10:A:THR:HG23	1:8:A:GLN:H	7	0.13
(1,199)	1:10:A:THR:HG21	1:8:A:GLN:H	15	0.13
(1,199)	1:10:A:THR:HG22	1:8:A:GLN:H	15	0.13
(1,199)	1:10:A:THR:HG23	1:8:A:GLN:H	15	0.13
(1,199)	1:10:A:THR:HG21	1:8:A:GLN:H	18	0.13
(1,199)	1:10:A:THR:HG22	1:8:A:GLN:H	18	0.13
(1,199)	1:10:A:THR:HG23	1:8:A:GLN:H	18	0.13
(1,195)	1:127:A:ILE:HD11	1:67:A:GLN:HG3	5	0.13
(1,195)	1:127:A:ILE:HD12	1:67:A:GLN:HG3	5	0.13
(1,195)	1:127:A:ILE:HD13	1:67:A:GLN:HG3	5	0.13
(1,162)	1:167:A:LEU:H	1:168:A:VAL:H	2	0.13
(1,154)	1:197:A:LEU:HD11	1:198:A:ASN:H	12	0.13
(1,154)	1:197:A:LEU:HD12	1:198:A:ASN:H	12	0.13
(1,154)	1:197:A:LEU:HD13	1:198:A:ASN:H	12	0.13
(1,154)	1:197:A:LEU:HD11	1:198:A:ASN:H	14	0.13
(1,154)	1:197:A:LEU:HD12	1:198:A:ASN:H	14	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,154)	1:197:A:LEU:HD13	1:198:A:ASN:H	14	0.13
(1,154)	1:197:A:LEU:HD11	1:198:A:ASN:H	17	0.13
(1,154)	1:197:A:LEU:HD12	1:198:A:ASN:H	17	0.13
(1,154)	1:197:A:LEU:HD13	1:198:A:ASN:H	17	0.13
(1,151)	1:129:A:SER:H	1:150:A:PRO:HA	2	0.13
(1,151)	1:129:A:SER:H	1:150:A:PRO:HA	9	0.13
(1,151)	1:129:A:SER:H	1:150:A:PRO:HA	10	0.13
(1,147)	1:6:A:ILE:HD11	1:9:A:GLN:H	20	0.13
(1,147)	1:6:A:ILE:HD12	1:9:A:GLN:H	20	0.13
(1,147)	1:6:A:ILE:HD13	1:9:A:GLN:H	20	0.13
(1,142)	1:84:A:VAL:HG21	1:93:A:ILE:HG13	9	0.13
(1,142)	1:84:A:VAL:HG22	1:93:A:ILE:HG13	9	0.13
(1,142)	1:84:A:VAL:HG23	1:93:A:ILE:HG13	9	0.13
(1,142)	1:84:A:VAL:HG21	1:93:A:ILE:HG13	14	0.13
(1,142)	1:84:A:VAL:HG22	1:93:A:ILE:HG13	14	0.13
(1,142)	1:84:A:VAL:HG23	1:93:A:ILE:HG13	14	0.13
(1,142)	1:84:A:VAL:HG21	1:93:A:ILE:HG13	19	0.13
(1,142)	1:84:A:VAL:HG22	1:93:A:ILE:HG13	19	0.13
(1,142)	1:84:A:VAL:HG23	1:93:A:ILE:HG13	19	0.13
(1,131)	1:84:A:VAL:HG11	1:82:A:ASN:HB2	4	0.13
(1,131)	1:84:A:VAL:HG12	1:82:A:ASN:HB2	4	0.13
(1,131)	1:84:A:VAL:HG13	1:82:A:ASN:HB2	4	0.13
(1,124)	1:53:A:ILE:H	1:53:A:ILE:HD11	5	0.13
(1,124)	1:53:A:ILE:H	1:53:A:ILE:HD12	5	0.13
(1,124)	1:53:A:ILE:H	1:53:A:ILE:HD13	5	0.13
(1,77)	1:199:A:ALA:HB1	1:54:A:ILE:HB	4	0.13
(1,77)	1:199:A:ALA:HB2	1:54:A:ILE:HB	4	0.13
(1,77)	1:199:A:ALA:HB3	1:54:A:ILE:HB	4	0.13
(1,71)	1:112:A:ILE:HD11	1:111:A:PHE:HB3	7	0.13
(1,71)	1:112:A:ILE:HD12	1:111:A:PHE:HB3	7	0.13
(1,71)	1:112:A:ILE:HD13	1:111:A:PHE:HB3	7	0.13
(1,23)	1:98:A:THR:HG21	1:110:A:ASP:H	3	0.13
(1,23)	1:98:A:THR:HG22	1:110:A:ASP:H	3	0.13
(1,23)	1:98:A:THR:HG23	1:110:A:ASP:H	3	0.13
(2,64)	1:65:A:LEU:N	1:61:A:LEU:O	2	0.12
(2,64)	1:65:A:LEU:N	1:61:A:LEU:O	5	0.12
(2,64)	1:65:A:LEU:N	1:61:A:LEU:O	8	0.12
(2,63)	1:61:A:LEU:O	1:65:A:LEU:N	2	0.12
(2,63)	1:61:A:LEU:O	1:65:A:LEU:N	5	0.12
(2,63)	1:61:A:LEU:O	1:65:A:LEU:N	8	0.12
(1,4387)	1:203:A:ILE:HD11	1:56:A:GLU:H	8	0.12
(1,4387)	1:203:A:ILE:HD12	1:56:A:GLU:H	8	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4387)	1:203:A:ILE:HD13	1:56:A:GLU:H	8	0.12
(1,4359)	1:72:A:ILE:HA	1:76:A:LYS:H	13	0.12
(1,4359)	1:72:A:ILE:HA	1:76:A:LYS:H	19	0.12
(1,4359)	1:72:A:ILE:HA	1:76:A:LYS:H	20	0.12
(1,4353)	1:187:A:THR:HG21	1:184:A:ILE:HA	8	0.12
(1,4353)	1:187:A:THR:HG22	1:184:A:ILE:HA	8	0.12
(1,4353)	1:187:A:THR:HG23	1:184:A:ILE:HA	8	0.12
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD11	18	0.12
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD12	18	0.12
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD13	18	0.12
(1,4325)	1:203:A:ILE:HG21	1:61:A:LEU:H	12	0.12
(1,4325)	1:203:A:ILE:HG22	1:61:A:LEU:H	12	0.12
(1,4325)	1:203:A:ILE:HG23	1:61:A:LEU:H	12	0.12
(1,4291)	1:91:A:THR:HG21	1:93:A:ILE:HG21	15	0.12
(1,4291)	1:91:A:THR:HG21	1:93:A:ILE:HG22	15	0.12
(1,4291)	1:91:A:THR:HG21	1:93:A:ILE:HG23	15	0.12
(1,4291)	1:91:A:THR:HG22	1:93:A:ILE:HG21	15	0.12
(1,4291)	1:91:A:THR:HG22	1:93:A:ILE:HG22	15	0.12
(1,4291)	1:91:A:THR:HG22	1:93:A:ILE:HG23	15	0.12
(1,4291)	1:91:A:THR:HG23	1:93:A:ILE:HG21	15	0.12
(1,4291)	1:91:A:THR:HG23	1:93:A:ILE:HG22	15	0.12
(1,4291)	1:91:A:THR:HG23	1:93:A:ILE:HG23	15	0.12
(1,4291)	1:91:A:THR:HG21	1:93:A:ILE:HG21	16	0.12
(1,4291)	1:91:A:THR:HG21	1:93:A:ILE:HG22	16	0.12
(1,4291)	1:91:A:THR:HG21	1:93:A:ILE:HG23	16	0.12
(1,4291)	1:91:A:THR:HG22	1:93:A:ILE:HG21	16	0.12
(1,4291)	1:91:A:THR:HG22	1:93:A:ILE:HG22	16	0.12
(1,4291)	1:91:A:THR:HG22	1:93:A:ILE:HG23	16	0.12
(1,4291)	1:91:A:THR:HG23	1:93:A:ILE:HG21	16	0.12
(1,4291)	1:91:A:THR:HG23	1:93:A:ILE:HG22	16	0.12
(1,4291)	1:91:A:THR:HG23	1:93:A:ILE:HG23	16	0.12
(1,4256)	1:164:A:TYR:H	1:160:A:GLU:HA	11	0.12
(1,4256)	1:164:A:TYR:H	1:160:A:GLU:HA	16	0.12
(1,4246)	1:144:A:ILE:H	1:110:A:ASP:HA	7	0.12
(1,4245)	1:3:A:PHE:H	1:5:A:ALA:HB1	20	0.12
(1,4245)	1:3:A:PHE:H	1:5:A:ALA:HB2	20	0.12
(1,4245)	1:3:A:PHE:H	1:5:A:ALA:HB3	20	0.12
(1,4203)	1:192:A:LEU:HD21	1:171:A:VAL:HG21	20	0.12
(1,4203)	1:192:A:LEU:HD21	1:171:A:VAL:HG22	20	0.12
(1,4203)	1:192:A:LEU:HD21	1:171:A:VAL:HG23	20	0.12
(1,4203)	1:192:A:LEU:HD22	1:171:A:VAL:HG21	20	0.12
(1,4203)	1:192:A:LEU:HD22	1:171:A:VAL:HG22	20	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4203)	1:192:A:LEU:HD22	1:171:A:VAL:HG23	20	0.12
(1,4203)	1:192:A:LEU:HD23	1:171:A:VAL:HG21	20	0.12
(1,4203)	1:192:A:LEU:HD23	1:171:A:VAL:HG22	20	0.12
(1,4203)	1:192:A:LEU:HD23	1:171:A:VAL:HG23	20	0.12
(1,4195)	1:151:A:CYS:H	1:149:A:HIS:HA	18	0.12
(1,4180)	1:81:A:TYR:H	1:68:A:THR:HA	7	0.12
(1,4176)	1:34:A:THR:HG21	1:33:A:ILE:HA	3	0.12
(1,4176)	1:34:A:THR:HG22	1:33:A:ILE:HA	3	0.12
(1,4176)	1:34:A:THR:HG23	1:33:A:ILE:HA	3	0.12
(1,4176)	1:34:A:THR:HG21	1:33:A:ILE:HA	10	0.12
(1,4176)	1:34:A:THR:HG22	1:33:A:ILE:HA	10	0.12
(1,4176)	1:34:A:THR:HG23	1:33:A:ILE:HA	10	0.12
(1,4176)	1:34:A:THR:HG21	1:33:A:ILE:HA	20	0.12
(1,4176)	1:34:A:THR:HG22	1:33:A:ILE:HA	20	0.12
(1,4176)	1:34:A:THR:HG23	1:33:A:ILE:HA	20	0.12
(1,4175)	1:91:A:THR:H	1:87:A:ILE:HB	11	0.12
(1,4156)	1:208:A:THR:HG21	1:212:A:ARG:H	9	0.12
(1,4156)	1:208:A:THR:HG22	1:212:A:ARG:H	9	0.12
(1,4156)	1:208:A:THR:HG23	1:212:A:ARG:H	9	0.12
(1,4150)	1:121:A:GLU:H	1:122:A:GLY:H	1	0.12
(1,4150)	1:121:A:GLU:H	1:122:A:GLY:H	17	0.12
(1,4139)	1:18:A:ASN:H	1:17:A:TYR:HB3	12	0.12
(1,4117)	1:137:A:TYR:H	1:134:A:PHE:HA	4	0.12
(1,4106)	1:96:A:THR:H	1:81:A:TYR:HA	14	0.12
(1,4089)	1:127:A:ILE:HD11	1:65:A:LEU:HD11	13	0.12
(1,4089)	1:127:A:ILE:HD11	1:65:A:LEU:HD12	13	0.12
(1,4089)	1:127:A:ILE:HD11	1:65:A:LEU:HD13	13	0.12
(1,4089)	1:127:A:ILE:HD12	1:65:A:LEU:HD11	13	0.12
(1,4089)	1:127:A:ILE:HD12	1:65:A:LEU:HD12	13	0.12
(1,4089)	1:127:A:ILE:HD12	1:65:A:LEU:HD13	13	0.12
(1,4089)	1:127:A:ILE:HD13	1:65:A:LEU:HD11	13	0.12
(1,4089)	1:127:A:ILE:HD13	1:65:A:LEU:HD12	13	0.12
(1,4089)	1:127:A:ILE:HD13	1:65:A:LEU:HD13	13	0.12
(1,4087)	1:207:A:ARG:H	1:204:A:LYS:HB3	10	0.12
(1,4057)	1:145:A:ARG:H	1:143:A:TYR:HA	13	0.12
(1,4057)	1:145:A:ARG:H	1:143:A:TYR:HA	16	0.12
(1,4046)	1:183:A:ILE:H	1:184:A:ILE:HB	7	0.12
(1,4046)	1:183:A:ILE:H	1:184:A:ILE:HB	13	0.12
(1,4026)	1:86:A:ARG:HA	1:87:A:ILE:HG21	6	0.12
(1,4026)	1:86:A:ARG:HA	1:87:A:ILE:HG22	6	0.12
(1,4026)	1:86:A:ARG:HA	1:87:A:ILE:HG23	6	0.12
(1,4005)	1:34:A:THR:H	1:196:A:ILE:HD11	16	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4005)	1:34:A:THR:H	1:196:A:ILE:HD12	16	0.12
(1,4005)	1:34:A:THR:H	1:196:A:ILE:HD13	16	0.12
(1,4005)	1:34:A:THR:H	1:196:A:ILE:HD11	20	0.12
(1,4005)	1:34:A:THR:H	1:196:A:ILE:HD12	20	0.12
(1,4005)	1:34:A:THR:H	1:196:A:ILE:HD13	20	0.12
(1,3918)	1:172:A:GLN:H	1:173:A:THR:HG21	9	0.12
(1,3918)	1:172:A:GLN:H	1:173:A:THR:HG22	9	0.12
(1,3918)	1:172:A:GLN:H	1:173:A:THR:HG23	9	0.12
(1,3918)	1:172:A:GLN:H	1:173:A:THR:HG21	16	0.12
(1,3918)	1:172:A:GLN:H	1:173:A:THR:HG22	16	0.12
(1,3918)	1:172:A:GLN:H	1:173:A:THR:HG23	16	0.12
(1,3918)	1:172:A:GLN:H	1:173:A:THR:HG21	17	0.12
(1,3918)	1:172:A:GLN:H	1:173:A:THR:HG22	17	0.12
(1,3918)	1:172:A:GLN:H	1:173:A:THR:HG23	17	0.12
(1,3918)	1:172:A:GLN:H	1:173:A:THR:HG21	20	0.12
(1,3918)	1:172:A:GLN:H	1:173:A:THR:HG22	20	0.12
(1,3918)	1:172:A:GLN:H	1:173:A:THR:HG23	20	0.12
(1,3881)	1:123:A:ASN:HA	1:157:A:PRO:HG3	5	0.12
(1,3872)	1:203:A:ILE:H	1:61:A:LEU:HD21	2	0.12
(1,3872)	1:203:A:ILE:H	1:61:A:LEU:HD22	2	0.12
(1,3872)	1:203:A:ILE:H	1:61:A:LEU:HD23	2	0.12
(1,3872)	1:203:A:ILE:H	1:61:A:LEU:HD21	4	0.12
(1,3872)	1:203:A:ILE:H	1:61:A:LEU:HD22	4	0.12
(1,3872)	1:203:A:ILE:H	1:61:A:LEU:HD23	4	0.12
(1,3866)	1:5:A:ALA:HA	1:8:A:GLN:HG3	19	0.12
(1,3828)	1:164:A:TYR:H	1:161:A:ASN:HA	9	0.12
(1,3828)	1:164:A:TYR:H	1:161:A:ASN:HA	17	0.12
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG11	4	0.12
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG12	4	0.12
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG13	4	0.12
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG11	18	0.12
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG12	18	0.12
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG13	18	0.12
(1,3793)	1:137:A:TYR:H	1:134:A:PHE:HZ	6	0.12
(1,3793)	1:137:A:TYR:H	1:134:A:PHE:HZ	10	0.12
(1,3793)	1:137:A:TYR:H	1:134:A:PHE:HZ	20	0.12
(1,3779)	1:114:A:LEU:H	1:130:A:LYS:HB3	6	0.12
(1,3779)	1:114:A:LEU:H	1:130:A:LYS:HB3	14	0.12
(1,3760)	1:113:A:ASP:H	1:112:A:ILE:HD11	19	0.12
(1,3760)	1:113:A:ASP:H	1:112:A:ILE:HD12	19	0.12
(1,3760)	1:113:A:ASP:H	1:112:A:ILE:HD13	19	0.12
(1,3759)	1:48:A:TYR:H	1:170:A:PHE:HB3	16	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3717)	1:37:A:SER:H	1:24:A:TRP:HA	13	0.12
(1,3717)	1:37:A:SER:H	1:24:A:TRP:HA	16	0.12
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB1	2	0.12
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB2	2	0.12
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB3	2	0.12
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB1	6	0.12
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB2	6	0.12
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB3	6	0.12
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB1	11	0.12
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB2	11	0.12
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB3	11	0.12
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB1	18	0.12
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB2	18	0.12
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB3	18	0.12
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB1	19	0.12
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB2	19	0.12
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB3	19	0.12
(1,3694)	1:80:A:VAL:HG21	1:79:A:GLN:HG3	19	0.12
(1,3694)	1:80:A:VAL:HG22	1:79:A:GLN:HG3	19	0.12
(1,3694)	1:80:A:VAL:HG23	1:79:A:GLN:HG3	19	0.12
(1,3683)	1:50:A:VAL:H	1:168:A:VAL:HA	18	0.12
(1,3646)	1:54:A:ILE:HD11	1:203:A:ILE:HG21	19	0.12
(1,3646)	1:54:A:ILE:HD11	1:203:A:ILE:HG22	19	0.12
(1,3646)	1:54:A:ILE:HD11	1:203:A:ILE:HG23	19	0.12
(1,3646)	1:54:A:ILE:HD12	1:203:A:ILE:HG21	19	0.12
(1,3646)	1:54:A:ILE:HD12	1:203:A:ILE:HG22	19	0.12
(1,3646)	1:54:A:ILE:HD12	1:203:A:ILE:HG23	19	0.12
(1,3646)	1:54:A:ILE:HD13	1:203:A:ILE:HG21	19	0.12
(1,3646)	1:54:A:ILE:HD13	1:203:A:ILE:HG22	19	0.12
(1,3646)	1:54:A:ILE:HD13	1:203:A:ILE:HG23	19	0.12
(1,3635)	1:196:A:ILE:HD11	1:192:A:LEU:HB3	3	0.12
(1,3635)	1:196:A:ILE:HD12	1:192:A:LEU:HB3	3	0.12
(1,3635)	1:196:A:ILE:HD13	1:192:A:LEU:HB3	3	0.12
(1,3623)	1:13:A:GLU:H	1:13:A:GLU:HG2	18	0.12
(1,3620)	1:191:A:ASN:H	1:190:A:SER:HB2	3	0.12
(1,3619)	1:151:A:CYS:H	1:128:A:SER:HA	10	0.12
(1,3619)	1:151:A:CYS:H	1:128:A:SER:HA	15	0.12
(1,3598)	1:24:A:TRP:HH2	1:36:A:SER:HB3	12	0.12
(1,3589)	1:186:A:LYS:H	1:106:A:ILE:HD11	8	0.12
(1,3589)	1:186:A:LYS:H	1:106:A:ILE:HD12	8	0.12
(1,3589)	1:186:A:LYS:H	1:106:A:ILE:HD13	8	0.12
(1,3589)	1:186:A:LYS:H	1:106:A:ILE:HD11	16	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3589)	1:186:A:LYS:H	1:106:A:ILE:HD12	16	0.12
(1,3589)	1:186:A:LYS:H	1:106:A:ILE:HD13	16	0.12
(1,3573)	1:184:A:ILE:H	1:187:A:THR:H	3	0.12
(1,3573)	1:184:A:ILE:H	1:187:A:THR:H	5	0.12
(1,3573)	1:184:A:ILE:H	1:187:A:THR:H	14	0.12
(1,3573)	1:184:A:ILE:H	1:187:A:THR:H	17	0.12
(1,3572)	1:184:A:ILE:H	1:186:A:LYS:HE3	9	0.12
(1,3567)	1:35:A:VAL:HG21	1:37:A:SER:H	11	0.12
(1,3567)	1:35:A:VAL:HG22	1:37:A:SER:H	11	0.12
(1,3567)	1:35:A:VAL:HG23	1:37:A:SER:H	11	0.12
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB1	2	0.12
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB2	2	0.12
(1,3552)	1:6:A:ILE:H	1:7:A:ALA:HB3	2	0.12
(1,3537)	1:28:A:LYS:H	1:28:A:LYS:HD2	3	0.12
(1,3525)	1:68:A:THR:HG21	1:69:A:GLY:HA3	13	0.12
(1,3525)	1:68:A:THR:HG22	1:69:A:GLY:HA3	13	0.12
(1,3525)	1:68:A:THR:HG23	1:69:A:GLY:HA3	13	0.12
(1,3522)	1:112:A:ILE:H	1:96:A:THR:HB	3	0.12
(1,3522)	1:112:A:ILE:H	1:96:A:THR:HB	17	0.12
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG21	13	0.12
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG22	13	0.12
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG23	13	0.12
(1,3479)	1:143:A:TYR:H	1:142:A:ASN:HB2	9	0.12
(1,3470)	1:132:A:VAL:HG21	1:130:A:LYS:H	7	0.12
(1,3470)	1:132:A:VAL:HG22	1:130:A:LYS:H	7	0.12
(1,3470)	1:132:A:VAL:HG23	1:130:A:LYS:H	7	0.12
(1,3470)	1:132:A:VAL:HG21	1:130:A:LYS:H	10	0.12
(1,3470)	1:132:A:VAL:HG22	1:130:A:LYS:H	10	0.12
(1,3470)	1:132:A:VAL:HG23	1:130:A:LYS:H	10	0.12
(1,3468)	1:26:A:VAL:HG11	1:34:A:THR:HG21	15	0.12
(1,3468)	1:26:A:VAL:HG11	1:34:A:THR:HG22	15	0.12
(1,3468)	1:26:A:VAL:HG11	1:34:A:THR:HG23	15	0.12
(1,3468)	1:26:A:VAL:HG12	1:34:A:THR:HG21	15	0.12
(1,3468)	1:26:A:VAL:HG12	1:34:A:THR:HG22	15	0.12
(1,3468)	1:26:A:VAL:HG12	1:34:A:THR:HG23	15	0.12
(1,3468)	1:26:A:VAL:HG13	1:34:A:THR:HG21	15	0.12
(1,3468)	1:26:A:VAL:HG13	1:34:A:THR:HG22	15	0.12
(1,3468)	1:26:A:VAL:HG13	1:34:A:THR:HG23	15	0.12
(1,3468)	1:26:A:VAL:HG11	1:34:A:THR:HG21	17	0.12
(1,3468)	1:26:A:VAL:HG11	1:34:A:THR:HG22	17	0.12
(1,3468)	1:26:A:VAL:HG11	1:34:A:THR:HG23	17	0.12
(1,3468)	1:26:A:VAL:HG12	1:34:A:THR:HG21	17	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3468)	1:26:A:VAL:HG12	1:34:A:THR:HG22	17	0.12
(1,3468)	1:26:A:VAL:HG12	1:34:A:THR:HG23	17	0.12
(1,3468)	1:26:A:VAL:HG13	1:34:A:THR:HG21	17	0.12
(1,3468)	1:26:A:VAL:HG13	1:34:A:THR:HG22	17	0.12
(1,3468)	1:26:A:VAL:HG13	1:34:A:THR:HG23	17	0.12
(1,3463)	1:40:A:SER:H	1:45:A:GLY:HA3	7	0.12
(1,3463)	1:40:A:SER:H	1:45:A:GLY:HA3	10	0.12
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG21	8	0.12
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG22	8	0.12
(1,3435)	1:90:A:ASP:H	1:91:A:THR:HG23	8	0.12
(1,3410)	1:167:A:LEU:H	1:52:A:GLY:HA2	7	0.12
(1,3408)	1:120:A:TYR:H	1:118:A:LYS:HA	14	0.12
(1,3360)	1:116:A:TYR:H	1:114:A:LEU:HG	8	0.12
(1,3360)	1:116:A:TYR:H	1:114:A:LEU:HG	12	0.12
(1,3358)	1:15:A:LEU:HD11	1:12:A:GLN:H	11	0.12
(1,3358)	1:15:A:LEU:HD12	1:12:A:GLN:H	11	0.12
(1,3358)	1:15:A:LEU:HD13	1:12:A:GLN:H	11	0.12
(1,3290)	1:77:A:SER:H	1:99:A:GLN:H	8	0.12
(1,3290)	1:77:A:SER:H	1:99:A:GLN:H	12	0.12
(1,3284)	1:26:A:VAL:H	1:25:A:LYS:HG2	19	0.12
(1,3260)	1:201:A:ASP:H	1:199:A:ALA:HA	7	0.12
(1,3260)	1:201:A:ASP:H	1:199:A:ALA:HA	10	0.12
(1,3260)	1:201:A:ASP:H	1:199:A:ALA:HA	12	0.12
(1,3228)	1:187:A:THR:HG21	1:179:A:LEU:HD11	18	0.12
(1,3228)	1:187:A:THR:HG21	1:179:A:LEU:HD12	18	0.12
(1,3228)	1:187:A:THR:HG21	1:179:A:LEU:HD13	18	0.12
(1,3228)	1:187:A:THR:HG22	1:179:A:LEU:HD11	18	0.12
(1,3228)	1:187:A:THR:HG22	1:179:A:LEU:HD12	18	0.12
(1,3228)	1:187:A:THR:HG22	1:179:A:LEU:HD13	18	0.12
(1,3228)	1:187:A:THR:HG23	1:179:A:LEU:HD11	18	0.12
(1,3228)	1:187:A:THR:HG23	1:179:A:LEU:HD12	18	0.12
(1,3228)	1:187:A:THR:HG23	1:179:A:LEU:HD13	18	0.12
(1,3223)	1:175:A:MET:H	1:174:A:GLU:HB3	10	0.12
(1,3196)	1:36:A:SER:HA	1:24:A:TRP:HE1	4	0.12
(1,3108)	1:204:A:LYS:HA	1:204:A:LYS:HD3	7	0.12
(1,3108)	1:204:A:LYS:HA	1:204:A:LYS:HD3	16	0.12
(1,3108)	1:204:A:LYS:HA	1:204:A:LYS:HD3	19	0.12
(1,3096)	1:61:A:LEU:HG	1:57:A:SER:HA	17	0.12
(1,3091)	1:124:A:MET:H	1:119:A:ARG:HA	3	0.12
(1,3091)	1:124:A:MET:H	1:119:A:ARG:HA	14	0.12
(1,3053)	1:169:A:MET:H	1:49:A:ARG:HG2	3	0.12
(1,3026)	1:26:A:VAL:HG21	1:27:A:VAL:HA	10	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3026)	1:26:A:VAL:HG22	1:27:A:VAL:HA	10	0.12
(1,3026)	1:26:A:VAL:HG23	1:27:A:VAL:HA	10	0.12
(1,2991)	1:143:A:TYR:H	1:144:A:ILE:HG21	14	0.12
(1,2991)	1:143:A:TYR:H	1:144:A:ILE:HG22	14	0.12
(1,2991)	1:143:A:TYR:H	1:144:A:ILE:HG23	14	0.12
(1,2973)	1:57:A:SER:H	1:203:A:ILE:HG21	1	0.12
(1,2973)	1:57:A:SER:H	1:203:A:ILE:HG22	1	0.12
(1,2973)	1:57:A:SER:H	1:203:A:ILE:HG23	1	0.12
(1,2966)	1:17:A:TYR:H	1:15:A:LEU:HG	1	0.12
(1,2966)	1:17:A:TYR:H	1:15:A:LEU:HG	14	0.12
(1,2960)	1:132:A:VAL:H	1:133:A:ASP:HB2	4	0.12
(1,2960)	1:132:A:VAL:H	1:133:A:ASP:HB2	14	0.12
(1,2958)	1:90:A:ASP:H	1:92:A:PHE:H	2	0.12
(1,2945)	1:187:A:THR:HG21	1:191:A:ASN:H	9	0.12
(1,2945)	1:187:A:THR:HG22	1:191:A:ASN:H	9	0.12
(1,2945)	1:187:A:THR:HG23	1:191:A:ASN:H	9	0.12
(1,2892)	1:60:A:LYS:HB3	1:60:A:LYS:HD3	6	0.12
(1,2832)	1:126:A:ILE:H	1:154:A:VAL:HB	16	0.12
(1,2777)	1:73:A:THR:HG21	1:202:A:GLY:HA2	9	0.12
(1,2777)	1:73:A:THR:HG22	1:202:A:GLY:HA2	9	0.12
(1,2777)	1:73:A:THR:HG23	1:202:A:GLY:HA2	9	0.12
(1,2770)	1:98:A:THR:H	1:109:A:ARG:HB2	12	0.12
(1,2762)	1:197:A:LEU:H	1:200:A:LYS:H	4	0.12
(1,2762)	1:197:A:LEU:H	1:200:A:LYS:H	9	0.12
(1,2759)	1:54:A:ILE:H	1:61:A:LEU:HD11	3	0.12
(1,2759)	1:54:A:ILE:H	1:61:A:LEU:HD12	3	0.12
(1,2759)	1:54:A:ILE:H	1:61:A:LEU:HD13	3	0.12
(1,2747)	1:91:A:THR:HG21	1:4:A:LYS:HD3	5	0.12
(1,2747)	1:91:A:THR:HG22	1:4:A:LYS:HD3	5	0.12
(1,2747)	1:91:A:THR:HG23	1:4:A:LYS:HD3	5	0.12
(1,2742)	1:4:A:LYS:H	1:2:A:ASP:HA	14	0.12
(1,2739)	1:211:A:ARG:HA	1:214:A:PHE:HA	20	0.12
(1,2698)	1:132:A:VAL:H	1:130:A:LYS:H	13	0.12
(1,2698)	1:132:A:VAL:H	1:130:A:LYS:H	20	0.12
(1,2697)	1:31:A:LYS:H	1:32:A:LYS:HA	16	0.12
(1,2676)	1:206:A:HIS:HA	1:60:A:LYS:HD2	4	0.12
(1,2666)	1:69:A:GLY:H	1:72:A:ILE:HG21	11	0.12
(1,2666)	1:69:A:GLY:H	1:72:A:ILE:HG22	11	0.12
(1,2666)	1:69:A:GLY:H	1:72:A:ILE:HG23	11	0.12
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB1	2	0.12
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB2	2	0.12
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB3	2	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2658)	1:104:A:GLY:H	1:106:A:ILE:HD11	7	0.12
(1,2658)	1:104:A:GLY:H	1:106:A:ILE:HD12	7	0.12
(1,2658)	1:104:A:GLY:H	1:106:A:ILE:HD13	7	0.12
(1,2658)	1:104:A:GLY:H	1:106:A:ILE:HD11	18	0.12
(1,2658)	1:104:A:GLY:H	1:106:A:ILE:HD12	18	0.12
(1,2658)	1:104:A:GLY:H	1:106:A:ILE:HD13	18	0.12
(1,2649)	1:54:A:ILE:HG13	1:200:A:LYS:H	2	0.12
(1,2649)	1:54:A:ILE:HG13	1:200:A:LYS:H	4	0.12
(1,2649)	1:54:A:ILE:HG13	1:200:A:LYS:H	17	0.12
(1,2637)	1:187:A:THR:HG21	1:175:A:MET:HG3	7	0.12
(1,2637)	1:187:A:THR:HG22	1:175:A:MET:HG3	7	0.12
(1,2637)	1:187:A:THR:HG23	1:175:A:MET:HG3	7	0.12
(1,2606)	1:159:A:GLU:HA	1:158:A:MET:HB3	15	0.12
(1,2606)	1:159:A:GLU:HA	1:158:A:MET:HB3	17	0.12
(1,2577)	1:94:A:CYS:H	1:112:A:ILE:HD11	2	0.12
(1,2577)	1:94:A:CYS:H	1:112:A:ILE:HD12	2	0.12
(1,2577)	1:94:A:CYS:H	1:112:A:ILE:HD13	2	0.12
(1,2565)	1:190:A:SER:H	1:188:A:MET:HE1	15	0.12
(1,2565)	1:190:A:SER:H	1:188:A:MET:HE2	15	0.12
(1,2565)	1:190:A:SER:H	1:188:A:MET:HE3	15	0.12
(1,2545)	1:84:A:VAL:H	1:95:A:HIS:HA	14	0.12
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD21	5	0.12
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD22	5	0.12
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD23	5	0.12
(1,2520)	1:27:A:VAL:H	1:28:A:LYS:HA	16	0.12
(1,2513)	1:60:A:LYS:H	1:61:A:LEU:HD21	13	0.12
(1,2513)	1:60:A:LYS:H	1:61:A:LEU:HD22	13	0.12
(1,2513)	1:60:A:LYS:H	1:61:A:LEU:HD23	13	0.12
(1,2479)	1:66:A:TYR:H	1:71:A:ARG:HB2	18	0.12
(1,2471)	1:154:A:VAL:HG11	1:124:A:MET:HB3	12	0.12
(1,2471)	1:154:A:VAL:HG12	1:124:A:MET:HB3	12	0.12
(1,2471)	1:154:A:VAL:HG13	1:124:A:MET:HB3	12	0.12
(1,2471)	1:154:A:VAL:HG11	1:124:A:MET:HB3	16	0.12
(1,2471)	1:154:A:VAL:HG12	1:124:A:MET:HB3	16	0.12
(1,2471)	1:154:A:VAL:HG13	1:124:A:MET:HB3	16	0.12
(1,2461)	1:160:A:GLU:H	1:161:A:ASN:HA	18	0.12
(1,2439)	1:202:A:GLY:H	1:198:A:ASN:HB3	8	0.12
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD21	1	0.12
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD22	1	0.12
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD23	1	0.12
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD21	2	0.12
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD22	2	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD23	2	0.12
(1,2379)	1:106:A:ILE:HD11	1:179:A:LEU:HG	3	0.12
(1,2379)	1:106:A:ILE:HD12	1:179:A:LEU:HG	3	0.12
(1,2379)	1:106:A:ILE:HD13	1:179:A:LEU:HG	3	0.12
(1,2370)	1:155:A:CYS:H	1:126:A:ILE:HG21	6	0.12
(1,2370)	1:155:A:CYS:H	1:126:A:ILE:HG22	6	0.12
(1,2370)	1:155:A:CYS:H	1:126:A:ILE:HG23	6	0.12
(1,2370)	1:155:A:CYS:H	1:126:A:ILE:HG21	15	0.12
(1,2370)	1:155:A:CYS:H	1:126:A:ILE:HG22	15	0.12
(1,2370)	1:155:A:CYS:H	1:126:A:ILE:HG23	15	0.12
(1,2351)	1:80:A:VAL:H	1:81:A:TYR:HB3	19	0.12
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG11	3	0.12
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG12	3	0.12
(1,2342)	1:194:A:ASN:HB2	1:193:A:VAL:HG13	3	0.12
(1,2333)	1:53:A:ILE:HG21	1:54:A:ILE:HB	11	0.12
(1,2333)	1:53:A:ILE:HG22	1:54:A:ILE:HB	11	0.12
(1,2333)	1:53:A:ILE:HG23	1:54:A:ILE:HB	11	0.12
(1,2309)	1:129:A:SER:HB3	1:113:A:ASP:HB3	16	0.12
(1,2289)	1:45:A:GLY:H	1:43:A:PHE:H	1	0.12
(1,2287)	1:43:A:PHE:H	1:41:A:ARG:HB3	2	0.12
(1,2272)	1:64:A:PHE:HZ	1:65:A:LEU:HD21	17	0.12
(1,2272)	1:64:A:PHE:HZ	1:65:A:LEU:HD22	17	0.12
(1,2272)	1:64:A:PHE:HZ	1:65:A:LEU:HD23	17	0.12
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG11	13	0.12
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG12	13	0.12
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG13	13	0.12
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG11	13	0.12
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG12	13	0.12
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG13	13	0.12
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG11	13	0.12
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG12	13	0.12
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG13	13	0.12
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG11	19	0.12
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG12	19	0.12
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG13	19	0.12
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG11	19	0.12
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG12	19	0.12
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG13	19	0.12
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG11	19	0.12
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG12	19	0.12
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG13	19	0.12
(1,2253)	1:12:A:GLN:H	1:10:A:THR:H	12	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2252)	1:6:A:ILE:H	1:8:A:GLN:HG3	10	0.12
(1,2250)	1:102:A:ALA:HB1	1:183:A:ILE:HD11	4	0.12
(1,2250)	1:102:A:ALA:HB1	1:183:A:ILE:HD12	4	0.12
(1,2250)	1:102:A:ALA:HB1	1:183:A:ILE:HD13	4	0.12
(1,2250)	1:102:A:ALA:HB2	1:183:A:ILE:HD11	4	0.12
(1,2250)	1:102:A:ALA:HB2	1:183:A:ILE:HD12	4	0.12
(1,2250)	1:102:A:ALA:HB2	1:183:A:ILE:HD13	4	0.12
(1,2250)	1:102:A:ALA:HB3	1:183:A:ILE:HD11	4	0.12
(1,2250)	1:102:A:ALA:HB3	1:183:A:ILE:HD12	4	0.12
(1,2250)	1:102:A:ALA:HB3	1:183:A:ILE:HD13	4	0.12
(1,2170)	1:130:A:LYS:H	1:115:A:VAL:HG21	2	0.12
(1,2170)	1:130:A:LYS:H	1:115:A:VAL:HG22	2	0.12
(1,2170)	1:130:A:LYS:H	1:115:A:VAL:HG23	2	0.12
(1,2170)	1:130:A:LYS:H	1:115:A:VAL:HG21	3	0.12
(1,2170)	1:130:A:LYS:H	1:115:A:VAL:HG22	3	0.12
(1,2170)	1:130:A:LYS:H	1:115:A:VAL:HG23	3	0.12
(1,2137)	1:198:A:ASN:H	1:196:A:ILE:HA	1	0.12
(1,2137)	1:198:A:ASN:H	1:196:A:ILE:HA	2	0.12
(1,2107)	1:134:A:PHE:H	1:134:A:PHE:HZ	20	0.12
(1,2071)	1:24:A:TRP:HH2	1:36:A:SER:HB2	13	0.12
(1,2026)	1:71:A:ARG:H	1:70:A:ASP:H	4	0.12
(1,2020)	1:129:A:SER:H	1:116:A:TYR:H	12	0.12
(1,2018)	1:48:A:TYR:H	1:49:A:ARG:HA	16	0.12
(1,2003)	1:184:A:ILE:HA	1:187:A:THR:HG21	8	0.12
(1,2003)	1:184:A:ILE:HA	1:187:A:THR:HG22	8	0.12
(1,2003)	1:184:A:ILE:HA	1:187:A:THR:HG23	8	0.12
(1,1937)	1:176:A:ARG:H	1:174:A:GLU:HA	14	0.12
(1,1933)	1:80:A:VAL:H	1:78:A:LEU:HD21	19	0.12
(1,1933)	1:80:A:VAL:H	1:78:A:LEU:HD22	19	0.12
(1,1933)	1:80:A:VAL:H	1:78:A:LEU:HD23	19	0.12
(1,1932)	1:132:A:VAL:HG11	1:112:A:ILE:HG21	8	0.12
(1,1932)	1:132:A:VAL:HG11	1:112:A:ILE:HG22	8	0.12
(1,1932)	1:132:A:VAL:HG11	1:112:A:ILE:HG23	8	0.12
(1,1932)	1:132:A:VAL:HG12	1:112:A:ILE:HG21	8	0.12
(1,1932)	1:132:A:VAL:HG12	1:112:A:ILE:HG22	8	0.12
(1,1932)	1:132:A:VAL:HG12	1:112:A:ILE:HG23	8	0.12
(1,1932)	1:132:A:VAL:HG13	1:112:A:ILE:HG21	8	0.12
(1,1932)	1:132:A:VAL:HG13	1:112:A:ILE:HG22	8	0.12
(1,1932)	1:132:A:VAL:HG13	1:112:A:ILE:HG23	8	0.12
(1,1924)	1:6:A:ILE:HD11	1:5:A:ALA:HA	15	0.12
(1,1924)	1:6:A:ILE:HD12	1:5:A:ALA:HA	15	0.12
(1,1924)	1:6:A:ILE:HD13	1:5:A:ALA:HA	15	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1891)	1:66:A:TYR:H	1:62:A:SER:HA	6	0.12
(1,1871)	1:195:A:PHE:H	1:192:A:LEU:H	3	0.12
(1,1841)	1:74:A:TRP:HD1	1:202:A:GLY:HA2	1	0.12
(1,1836)	1:81:A:TYR:H	1:72:A:ILE:HG12	5	0.12
(1,1822)	1:56:A:GLU:H	1:53:A:ILE:HG21	16	0.12
(1,1822)	1:56:A:GLU:H	1:53:A:ILE:HG22	16	0.12
(1,1822)	1:56:A:GLU:H	1:53:A:ILE:HG23	16	0.12
(1,1809)	1:2:A:ASP:HB2	1:5:A:ALA:HB1	20	0.12
(1,1809)	1:2:A:ASP:HB2	1:5:A:ALA:HB2	20	0.12
(1,1809)	1:2:A:ASP:HB2	1:5:A:ALA:HB3	20	0.12
(1,1793)	1:184:A:ILE:HB	1:183:A:ILE:HB	10	0.12
(1,1771)	1:63:A:ASP:H	1:61:A:LEU:HB2	13	0.12
(1,1771)	1:63:A:ASP:H	1:61:A:LEU:HB2	15	0.12
(1,1771)	1:63:A:ASP:H	1:61:A:LEU:HB2	17	0.12
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD11	2	0.12
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD12	2	0.12
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD13	2	0.12
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD11	2	0.12
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD12	2	0.12
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD13	2	0.12
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD11	2	0.12
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD12	2	0.12
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD13	2	0.12
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD11	12	0.12
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD12	12	0.12
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD13	12	0.12
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD11	12	0.12
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD12	12	0.12
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD13	12	0.12
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD11	12	0.12
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD12	12	0.12
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD13	12	0.12
(1,1716)	1:134:A:PHE:H	1:112:A:ILE:HB	4	0.12
(1,1642)	1:154:A:VAL:H	1:169:A:MET:HB3	11	0.12
(1,1620)	1:22:A:SER:H	1:24:A:TRP:HE1	5	0.12
(1,1589)	1:190:A:SER:HB3	1:102:A:ALA:HB1	20	0.12
(1,1589)	1:190:A:SER:HB3	1:102:A:ALA:HB2	20	0.12
(1,1589)	1:190:A:SER:HB3	1:102:A:ALA:HB3	20	0.12
(1,1581)	1:22:A:SER:H	1:21:A:THR:HG21	9	0.12
(1,1581)	1:22:A:SER:H	1:21:A:THR:HG22	9	0.12
(1,1581)	1:22:A:SER:H	1:21:A:THR:HG23	9	0.12
(1,1581)	1:22:A:SER:H	1:21:A:THR:HG21	18	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1581)	1:22:A:SER:H	1:21:A:THR:HG22	18	0.12
(1,1581)	1:22:A:SER:H	1:21:A:THR:HG23	18	0.12
(1,1580)	1:174:A:GLU:H	1:147:A:TYR:HA	13	0.12
(1,1516)	1:168:A:VAL:HG21	1:51:A:GLU:HG2	18	0.12
(1,1516)	1:168:A:VAL:HG22	1:51:A:GLU:HG2	18	0.12
(1,1516)	1:168:A:VAL:HG23	1:51:A:GLU:HG2	18	0.12
(1,1508)	1:129:A:SER:HB3	1:113:A:ASP:H	2	0.12
(1,1451)	1:114:A:LEU:HD11	1:93:A:ILE:HB	7	0.12
(1,1451)	1:114:A:LEU:HD12	1:93:A:ILE:HB	7	0.12
(1,1451)	1:114:A:LEU:HD13	1:93:A:ILE:HB	7	0.12
(1,1451)	1:114:A:LEU:HD11	1:93:A:ILE:HB	13	0.12
(1,1451)	1:114:A:LEU:HD12	1:93:A:ILE:HB	13	0.12
(1,1451)	1:114:A:LEU:HD13	1:93:A:ILE:HB	13	0.12
(1,1448)	1:11:A:ALA:HB1	1:15:A:LEU:HD21	20	0.12
(1,1448)	1:11:A:ALA:HB1	1:15:A:LEU:HD22	20	0.12
(1,1448)	1:11:A:ALA:HB1	1:15:A:LEU:HD23	20	0.12
(1,1448)	1:11:A:ALA:HB2	1:15:A:LEU:HD21	20	0.12
(1,1448)	1:11:A:ALA:HB2	1:15:A:LEU:HD22	20	0.12
(1,1448)	1:11:A:ALA:HB2	1:15:A:LEU:HD23	20	0.12
(1,1448)	1:11:A:ALA:HB3	1:15:A:LEU:HD21	20	0.12
(1,1448)	1:11:A:ALA:HB3	1:15:A:LEU:HD22	20	0.12
(1,1448)	1:11:A:ALA:HB3	1:15:A:LEU:HD23	20	0.12
(1,1438)	1:192:A:LEU:HG	1:188:A:MET:HB3	20	0.12
(1,1381)	1:174:A:GLU:H	1:176:A:ARG:H	3	0.12
(1,1343)	1:129:A:SER:HB2	1:127:A:ILE:HG13	20	0.12
(1,1339)	1:98:A:THR:H	1:78:A:LEU:HD21	11	0.12
(1,1339)	1:98:A:THR:H	1:78:A:LEU:HD22	11	0.12
(1,1339)	1:98:A:THR:H	1:78:A:LEU:HD23	11	0.12
(1,1329)	1:165:A:SER:H	1:57:A:SER:HA	17	0.12
(1,1315)	1:37:A:SER:H	1:49:A:ARG:H	19	0.12
(1,1295)	1:203:A:ILE:HG21	1:204:A:LYS:HB3	1	0.12
(1,1295)	1:203:A:ILE:HG22	1:204:A:LYS:HB3	1	0.12
(1,1295)	1:203:A:ILE:HG23	1:204:A:LYS:HB3	1	0.12
(1,1295)	1:203:A:ILE:HG21	1:204:A:LYS:HB3	2	0.12
(1,1295)	1:203:A:ILE:HG22	1:204:A:LYS:HB3	2	0.12
(1,1295)	1:203:A:ILE:HG23	1:204:A:LYS:HB3	2	0.12
(1,1273)	1:11:A:ALA:H	1:116:A:TYR:HB2	1	0.12
(1,1273)	1:11:A:ALA:H	1:116:A:TYR:HB2	8	0.12
(1,1269)	1:14:A:VAL:H	1:15:A:LEU:HB2	3	0.12
(1,1269)	1:14:A:VAL:H	1:15:A:LEU:HB2	14	0.12
(1,1269)	1:14:A:VAL:H	1:15:A:LEU:HB2	18	0.12
(1,1267)	1:188:A:MET:H	1:188:A:MET:HE1	15	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1267)	1:188:A:MET:H	1:188:A:MET:HE2	15	0.12
(1,1267)	1:188:A:MET:H	1:188:A:MET:HE3	15	0.12
(1,1262)	1:14:A:VAL:H	1:14:A:VAL:HG21	8	0.12
(1,1262)	1:14:A:VAL:H	1:14:A:VAL:HG22	8	0.12
(1,1262)	1:14:A:VAL:H	1:14:A:VAL:HG23	8	0.12
(1,1260)	1:167:A:LEU:HA	1:196:A:ILE:HD11	12	0.12
(1,1260)	1:167:A:LEU:HA	1:196:A:ILE:HD12	12	0.12
(1,1260)	1:167:A:LEU:HA	1:196:A:ILE:HD13	12	0.12
(1,1253)	1:63:A:ASP:H	1:62:A:SER:HB3	5	0.12
(1,1174)	1:126:A:ILE:HD11	1:152:A:GLY:H	12	0.12
(1,1174)	1:126:A:ILE:HD12	1:152:A:GLY:H	12	0.12
(1,1174)	1:126:A:ILE:HD13	1:152:A:GLY:H	12	0.12
(1,1174)	1:126:A:ILE:HD11	1:152:A:GLY:H	17	0.12
(1,1174)	1:126:A:ILE:HD12	1:152:A:GLY:H	17	0.12
(1,1174)	1:126:A:ILE:HD13	1:152:A:GLY:H	17	0.12
(1,1151)	1:18:A:ASN:HB2	1:49:A:ARG:HG3	6	0.12
(1,1151)	1:18:A:ASN:HB2	1:49:A:ARG:HG3	14	0.12
(1,1123)	1:193:A:VAL:H	1:191:A:ASN:HA	14	0.12
(1,1082)	1:194:A:ASN:H	1:193:A:VAL:HB	7	0.12
(1,1078)	1:199:A:ALA:HB1	1:203:A:ILE:HG21	12	0.12
(1,1078)	1:199:A:ALA:HB1	1:203:A:ILE:HG22	12	0.12
(1,1078)	1:199:A:ALA:HB1	1:203:A:ILE:HG23	12	0.12
(1,1078)	1:199:A:ALA:HB2	1:203:A:ILE:HG21	12	0.12
(1,1078)	1:199:A:ALA:HB2	1:203:A:ILE:HG22	12	0.12
(1,1078)	1:199:A:ALA:HB2	1:203:A:ILE:HG23	12	0.12
(1,1078)	1:199:A:ALA:HB3	1:203:A:ILE:HG21	12	0.12
(1,1078)	1:199:A:ALA:HB3	1:203:A:ILE:HG22	12	0.12
(1,1078)	1:199:A:ALA:HB3	1:203:A:ILE:HG23	12	0.12
(1,1075)	1:12:A:GLN:H	1:118:A:LYS:HE3	17	0.12
(1,1067)	1:70:A:ASP:HB3	1:73:A:THR:H	10	0.12
(1,1066)	1:144:A:ILE:HA	1:109:A:ARG:HG2	1	0.12
(1,1066)	1:144:A:ILE:HA	1:109:A:ARG:HG2	17	0.12
(1,1047)	1:203:A:ILE:HG21	1:204:A:LYS:HB2	3	0.12
(1,1047)	1:203:A:ILE:HG22	1:204:A:LYS:HB2	3	0.12
(1,1047)	1:203:A:ILE:HG23	1:204:A:LYS:HB2	3	0.12
(1,1023)	1:111:A:PHE:H	1:97:A:ILE:HG21	10	0.12
(1,1023)	1:111:A:PHE:H	1:97:A:ILE:HG22	10	0.12
(1,1023)	1:111:A:PHE:H	1:97:A:ILE:HG23	10	0.12
(1,1023)	1:111:A:PHE:H	1:97:A:ILE:HG21	16	0.12
(1,1023)	1:111:A:PHE:H	1:97:A:ILE:HG22	16	0.12
(1,1023)	1:111:A:PHE:H	1:97:A:ILE:HG23	16	0.12
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB1	16	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB2	16	0.12
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB3	16	0.12
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB1	17	0.12
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB2	17	0.12
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB3	17	0.12
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB1	19	0.12
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB2	19	0.12
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB3	19	0.12
(1,983)	1:86:A:ARG:HD3	1:86:A:ARG:HB2	17	0.12
(1,956)	1:15:A:LEU:H	1:154:A:VAL:HG11	14	0.12
(1,956)	1:15:A:LEU:H	1:154:A:VAL:HG12	14	0.12
(1,956)	1:15:A:LEU:H	1:154:A:VAL:HG13	14	0.12
(1,934)	1:184:A:ILE:H	1:187:A:THR:HG21	12	0.12
(1,934)	1:184:A:ILE:H	1:187:A:THR:HG22	12	0.12
(1,934)	1:184:A:ILE:H	1:187:A:THR:HG23	12	0.12
(1,934)	1:184:A:ILE:H	1:187:A:THR:HG21	16	0.12
(1,934)	1:184:A:ILE:H	1:187:A:THR:HG22	16	0.12
(1,934)	1:184:A:ILE:H	1:187:A:THR:HG23	16	0.12
(1,934)	1:184:A:ILE:H	1:187:A:THR:HG21	17	0.12
(1,934)	1:184:A:ILE:H	1:187:A:THR:HG22	17	0.12
(1,934)	1:184:A:ILE:H	1:187:A:THR:HG23	17	0.12
(1,934)	1:184:A:ILE:H	1:187:A:THR:HG21	19	0.12
(1,934)	1:184:A:ILE:H	1:187:A:THR:HG22	19	0.12
(1,934)	1:184:A:ILE:H	1:187:A:THR:HG23	19	0.12
(1,923)	1:196:A:ILE:HG21	1:193:A:VAL:HB	20	0.12
(1,923)	1:196:A:ILE:HG22	1:193:A:VAL:HB	20	0.12
(1,923)	1:196:A:ILE:HG23	1:193:A:VAL:HB	20	0.12
(1,906)	1:98:A:THR:HG21	1:96:A:THR:HG21	6	0.12
(1,906)	1:98:A:THR:HG21	1:96:A:THR:HG22	6	0.12
(1,906)	1:98:A:THR:HG21	1:96:A:THR:HG23	6	0.12
(1,906)	1:98:A:THR:HG22	1:96:A:THR:HG21	6	0.12
(1,906)	1:98:A:THR:HG22	1:96:A:THR:HG22	6	0.12
(1,906)	1:98:A:THR:HG22	1:96:A:THR:HG23	6	0.12
(1,906)	1:98:A:THR:HG23	1:96:A:THR:HG21	6	0.12
(1,906)	1:98:A:THR:HG23	1:96:A:THR:HG22	6	0.12
(1,906)	1:98:A:THR:HG23	1:96:A:THR:HG23	6	0.12
(1,903)	1:194:A:ASN:HA	1:196:A:ILE:H	20	0.12
(1,892)	1:26:A:VAL:HA	1:36:A:SER:HA	12	0.12
(1,878)	1:180:A:SER:H	1:184:A:ILE:HB	14	0.12
(1,858)	1:101:A:PHE:H	1:102:A:ALA:H	7	0.12
(1,855)	1:192:A:LEU:H	1:50:A:VAL:HG11	7	0.12
(1,855)	1:192:A:LEU:H	1:50:A:VAL:HG12	7	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,855)	1:192:A:LEU:H	1:50:A:VAL:HG13	7	0.12
(1,855)	1:192:A:LEU:H	1:50:A:VAL:HG11	19	0.12
(1,855)	1:192:A:LEU:H	1:50:A:VAL:HG12	19	0.12
(1,855)	1:192:A:LEU:H	1:50:A:VAL:HG13	19	0.12
(1,848)	1:67:A:GLN:H	1:65:A:LEU:HD21	4	0.12
(1,848)	1:67:A:GLN:H	1:65:A:LEU:HD22	4	0.12
(1,848)	1:67:A:GLN:H	1:65:A:LEU:HD23	4	0.12
(1,836)	1:15:A:LEU:HD11	1:126:A:ILE:HD11	3	0.12
(1,836)	1:15:A:LEU:HD11	1:126:A:ILE:HD12	3	0.12
(1,836)	1:15:A:LEU:HD11	1:126:A:ILE:HD13	3	0.12
(1,836)	1:15:A:LEU:HD12	1:126:A:ILE:HD11	3	0.12
(1,836)	1:15:A:LEU:HD12	1:126:A:ILE:HD12	3	0.12
(1,836)	1:15:A:LEU:HD12	1:126:A:ILE:HD13	3	0.12
(1,836)	1:15:A:LEU:HD13	1:126:A:ILE:HD11	3	0.12
(1,836)	1:15:A:LEU:HD13	1:126:A:ILE:HD12	3	0.12
(1,836)	1:15:A:LEU:HD13	1:126:A:ILE:HD13	3	0.12
(1,836)	1:15:A:LEU:HD11	1:126:A:ILE:HD11	5	0.12
(1,836)	1:15:A:LEU:HD11	1:126:A:ILE:HD12	5	0.12
(1,836)	1:15:A:LEU:HD11	1:126:A:ILE:HD13	5	0.12
(1,836)	1:15:A:LEU:HD12	1:126:A:ILE:HD11	5	0.12
(1,836)	1:15:A:LEU:HD12	1:126:A:ILE:HD12	5	0.12
(1,836)	1:15:A:LEU:HD12	1:126:A:ILE:HD13	5	0.12
(1,836)	1:15:A:LEU:HD13	1:126:A:ILE:HD11	5	0.12
(1,836)	1:15:A:LEU:HD13	1:126:A:ILE:HD12	5	0.12
(1,836)	1:15:A:LEU:HD13	1:126:A:ILE:HD13	5	0.12
(1,816)	1:162:A:PRO:HA	1:158:A:MET:H	2	0.12
(1,816)	1:162:A:PRO:HA	1:158:A:MET:H	14	0.12
(1,812)	1:205:A:ALA:H	1:208:A:THR:H	4	0.12
(1,812)	1:205:A:ALA:H	1:208:A:THR:H	15	0.12
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG11	14	0.12
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG12	14	0.12
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG13	14	0.12
(1,798)	1:199:A:ALA:HB1	1:198:A:ASN:H	12	0.12
(1,798)	1:199:A:ALA:HB2	1:198:A:ASN:H	12	0.12
(1,798)	1:199:A:ALA:HB3	1:198:A:ASN:H	12	0.12
(1,798)	1:199:A:ALA:HB1	1:198:A:ASN:H	13	0.12
(1,798)	1:199:A:ALA:HB2	1:198:A:ASN:H	13	0.12
(1,798)	1:199:A:ALA:HB3	1:198:A:ASN:H	13	0.12
(1,797)	1:192:A:LEU:H	1:194:A:ASN:HB2	9	0.12
(1,770)	1:53:A:ILE:HD11	1:32:A:LYS:HE2	19	0.12
(1,770)	1:53:A:ILE:HD12	1:32:A:LYS:HE2	19	0.12
(1,770)	1:53:A:ILE:HD13	1:32:A:LYS:HE2	19	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,756)	1:26:A:VAL:HG21	1:37:A:SER:H	17	0.12
(1,756)	1:26:A:VAL:HG22	1:37:A:SER:H	17	0.12
(1,756)	1:26:A:VAL:HG23	1:37:A:SER:H	17	0.12
(1,756)	1:26:A:VAL:HG21	1:37:A:SER:H	18	0.12
(1,756)	1:26:A:VAL:HG22	1:37:A:SER:H	18	0.12
(1,756)	1:26:A:VAL:HG23	1:37:A:SER:H	18	0.12
(1,741)	1:147:A:TYR:H	1:144:A:ILE:HG12	11	0.12
(1,736)	1:61:A:LEU:HG	1:56:A:GLU:HG2	3	0.12
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG21	2	0.12
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG22	2	0.12
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG23	2	0.12
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG21	9	0.12
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG22	9	0.12
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG23	9	0.12
(1,710)	1:150:A:PRO:HB2	1:14:A:VAL:HG21	17	0.12
(1,710)	1:150:A:PRO:HB2	1:14:A:VAL:HG22	17	0.12
(1,710)	1:150:A:PRO:HB2	1:14:A:VAL:HG23	17	0.12
(1,709)	1:167:A:LEU:HB3	1:166:A:LYS:HE2	9	0.12
(1,704)	1:109:A:ARG:H	1:97:A:ILE:HG21	15	0.12
(1,704)	1:109:A:ARG:H	1:97:A:ILE:HG22	15	0.12
(1,704)	1:109:A:ARG:H	1:97:A:ILE:HG23	15	0.12
(1,665)	1:167:A:LEU:H	1:54:A:ILE:HB	6	0.12
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD11	9	0.12
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD12	9	0.12
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD13	9	0.12
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD11	9	0.12
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD12	9	0.12
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD13	9	0.12
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD11	9	0.12
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD12	9	0.12
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD13	9	0.12
(1,644)	1:96:A:THR:H	1:94:A:CYS:H	9	0.12
(1,643)	1:81:A:TYR:H	1:72:A:ILE:HD11	10	0.12
(1,643)	1:81:A:TYR:H	1:72:A:ILE:HD12	10	0.12
(1,643)	1:81:A:TYR:H	1:72:A:ILE:HD13	10	0.12
(1,641)	1:102:A:ALA:HB1	1:106:A:ILE:HD11	12	0.12
(1,641)	1:102:A:ALA:HB1	1:106:A:ILE:HD12	12	0.12
(1,641)	1:102:A:ALA:HB1	1:106:A:ILE:HD13	12	0.12
(1,641)	1:102:A:ALA:HB2	1:106:A:ILE:HD11	12	0.12
(1,641)	1:102:A:ALA:HB2	1:106:A:ILE:HD12	12	0.12
(1,641)	1:102:A:ALA:HB2	1:106:A:ILE:HD13	12	0.12
(1,641)	1:102:A:ALA:HB3	1:106:A:ILE:HD11	12	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,641)	1:102:A:ALA:HB3	1:106:A:ILE:HD12	12	0.12
(1,641)	1:102:A:ALA:HB3	1:106:A:ILE:HD13	12	0.12
(1,620)	1:101:A:PHE:H	1:98:A:THR:HG21	3	0.12
(1,620)	1:101:A:PHE:H	1:98:A:THR:HG22	3	0.12
(1,620)	1:101:A:PHE:H	1:98:A:THR:HG23	3	0.12
(1,606)	1:101:A:PHE:H	1:99:A:GLN:HB3	8	0.12
(1,567)	1:156:A:SER:H	1:166:A:LYS:HA	12	0.12
(1,539)	1:206:A:HIS:H	1:202:A:GLY:HA3	9	0.12
(1,464)	1:172:A:GLN:HG3	1:47:A:LEU:HB2	8	0.12
(1,419)	1:79:A:GLN:HG3	1:80:A:VAL:HG21	6	0.12
(1,419)	1:79:A:GLN:HG3	1:80:A:VAL:HG22	6	0.12
(1,419)	1:79:A:GLN:HG3	1:80:A:VAL:HG23	6	0.12
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD21	3	0.12
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD22	3	0.12
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD23	3	0.12
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD21	10	0.12
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD22	10	0.12
(1,390)	1:201:A:ASP:H	1:197:A:LEU:HD23	10	0.12
(1,379)	1:69:A:GLY:HA2	1:72:A:ILE:H	1	0.12
(1,379)	1:69:A:GLY:HA2	1:72:A:ILE:H	15	0.12
(1,352)	1:3:A:PHE:HZ	1:3:A:PHE:H	12	0.12
(1,349)	1:205:A:ALA:H	1:201:A:ASP:HA	2	0.12
(1,349)	1:205:A:ALA:H	1:201:A:ASP:HA	3	0.12
(1,349)	1:205:A:ALA:H	1:201:A:ASP:HA	6	0.12
(1,335)	1:14:A:VAL:H	1:13:A:GLU:HG2	14	0.12
(1,301)	1:6:A:ILE:HA	1:9:A:GLN:HB3	16	0.12
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG11	18	0.12
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG12	18	0.12
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG13	18	0.12
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG11	18	0.12
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG12	18	0.12
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG13	18	0.12
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG11	18	0.12
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG12	18	0.12
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG13	18	0.12
(1,268)	1:43:A:PHE:H	1:44:A:HIS:HA	2	0.12
(1,258)	1:42:A:LYS:H	1:42:A:LYS:HD2	11	0.12
(1,251)	1:61:A:LEU:HG	1:203:A:ILE:HG21	12	0.12
(1,251)	1:61:A:LEU:HG	1:203:A:ILE:HG22	12	0.12
(1,251)	1:61:A:LEU:HG	1:203:A:ILE:HG23	12	0.12
(1,240)	1:128:A:SER:H	1:126:A:ILE:HB	6	0.12
(1,240)	1:128:A:SER:H	1:126:A:ILE:HB	16	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,230)	1:68:A:THR:HA	1:67:A:GLN:HB3	17	0.12
(1,199)	1:10:A:THR:HG21	1:8:A:GLN:H	16	0.12
(1,199)	1:10:A:THR:HG22	1:8:A:GLN:H	16	0.12
(1,199)	1:10:A:THR:HG23	1:8:A:GLN:H	16	0.12
(1,195)	1:127:A:ILE:HD11	1:67:A:GLN:HG3	11	0.12
(1,195)	1:127:A:ILE:HD12	1:67:A:GLN:HG3	11	0.12
(1,195)	1:127:A:ILE:HD13	1:67:A:GLN:HG3	11	0.12
(1,173)	1:70:A:ASP:H	1:71:A:ARG:H	4	0.12
(1,162)	1:167:A:LEU:H	1:168:A:VAL:H	16	0.12
(1,161)	1:200:A:LYS:HE3	1:200:A:LYS:HG2	15	0.12
(1,161)	1:200:A:LYS:HE3	1:200:A:LYS:HG2	18	0.12
(1,154)	1:197:A:LEU:HD11	1:198:A:ASN:H	4	0.12
(1,154)	1:197:A:LEU:HD12	1:198:A:ASN:H	4	0.12
(1,154)	1:197:A:LEU:HD13	1:198:A:ASN:H	4	0.12
(1,151)	1:129:A:SER:H	1:150:A:PRO:HA	6	0.12
(1,147)	1:6:A:ILE:HD11	1:9:A:GLN:H	3	0.12
(1,147)	1:6:A:ILE:HD12	1:9:A:GLN:H	3	0.12
(1,147)	1:6:A:ILE:HD13	1:9:A:GLN:H	3	0.12
(1,124)	1:53:A:ILE:H	1:53:A:ILE:HD11	3	0.12
(1,124)	1:53:A:ILE:H	1:53:A:ILE:HD12	3	0.12
(1,124)	1:53:A:ILE:H	1:53:A:ILE:HD13	3	0.12
(1,124)	1:53:A:ILE:H	1:53:A:ILE:HD11	10	0.12
(1,124)	1:53:A:ILE:H	1:53:A:ILE:HD12	10	0.12
(1,124)	1:53:A:ILE:H	1:53:A:ILE:HD13	10	0.12
(1,80)	1:106:A:ILE:HG12	1:179:A:LEU:HG	10	0.12
(1,77)	1:199:A:ALA:HB1	1:54:A:ILE:HB	15	0.12
(1,77)	1:199:A:ALA:HB2	1:54:A:ILE:HB	15	0.12
(1,77)	1:199:A:ALA:HB3	1:54:A:ILE:HB	15	0.12
(1,23)	1:98:A:THR:HG21	1:110:A:ASP:H	10	0.12
(1,23)	1:98:A:THR:HG22	1:110:A:ASP:H	10	0.12
(1,23)	1:98:A:THR:HG23	1:110:A:ASP:H	10	0.12
(1,12)	1:200:A:LYS:HG2	1:200:A:LYS:HE3	15	0.12
(1,12)	1:200:A:LYS:HG2	1:200:A:LYS:HE3	18	0.12
(2,119)	1:170:A:PHE:O	1:152:A:GLY:N	3	0.11
(2,119)	1:170:A:PHE:O	1:152:A:GLY:N	17	0.11
(2,118)	1:152:A:GLY:N	1:170:A:PHE:O	3	0.11
(2,118)	1:152:A:GLY:N	1:170:A:PHE:O	17	0.11
(2,64)	1:65:A:LEU:N	1:61:A:LEU:O	3	0.11
(2,64)	1:65:A:LEU:N	1:61:A:LEU:O	11	0.11
(2,64)	1:65:A:LEU:N	1:61:A:LEU:O	15	0.11
(2,64)	1:65:A:LEU:N	1:61:A:LEU:O	18	0.11
(2,63)	1:61:A:LEU:O	1:65:A:LEU:N	3	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,63)	1:61:A:LEU:O	1:65:A:LEU:N	11	0.11
(2,63)	1:61:A:LEU:O	1:65:A:LEU:N	15	0.11
(2,63)	1:61:A:LEU:O	1:65:A:LEU:N	18	0.11
(2,38)	1:48:A:TYR:N	1:171:A:VAL:O	20	0.11
(2,37)	1:171:A:VAL:O	1:48:A:TYR:N	20	0.11
(2,30)	1:53:A:ILE:N	1:32:A:LYS:O	3	0.11
(2,29)	1:32:A:LYS:O	1:53:A:ILE:N	3	0.11
(1,4387)	1:203:A:ILE:HD11	1:56:A:GLU:H	13	0.11
(1,4387)	1:203:A:ILE:HD12	1:56:A:GLU:H	13	0.11
(1,4387)	1:203:A:ILE:HD13	1:56:A:GLU:H	13	0.11
(1,4372)	1:206:A:HIS:H	1:203:A:ILE:H	13	0.11
(1,4362)	1:184:A:ILE:HG21	1:185:A:GLU:HG3	12	0.11
(1,4362)	1:184:A:ILE:HG22	1:185:A:GLU:HG3	12	0.11
(1,4362)	1:184:A:ILE:HG23	1:185:A:GLU:HG3	12	0.11
(1,4359)	1:72:A:ILE:HA	1:76:A:LYS:H	14	0.11
(1,4353)	1:187:A:THR:HG21	1:184:A:ILE:HA	2	0.11
(1,4353)	1:187:A:THR:HG22	1:184:A:ILE:HA	2	0.11
(1,4353)	1:187:A:THR:HG23	1:184:A:ILE:HA	2	0.11
(1,4353)	1:187:A:THR:HG21	1:184:A:ILE:HA	3	0.11
(1,4353)	1:187:A:THR:HG22	1:184:A:ILE:HA	3	0.11
(1,4353)	1:187:A:THR:HG23	1:184:A:ILE:HA	3	0.11
(1,4353)	1:187:A:THR:HG21	1:184:A:ILE:HA	5	0.11
(1,4353)	1:187:A:THR:HG22	1:184:A:ILE:HA	5	0.11
(1,4353)	1:187:A:THR:HG23	1:184:A:ILE:HA	5	0.11
(1,4353)	1:187:A:THR:HG21	1:184:A:ILE:HA	6	0.11
(1,4353)	1:187:A:THR:HG22	1:184:A:ILE:HA	6	0.11
(1,4353)	1:187:A:THR:HG23	1:184:A:ILE:HA	6	0.11
(1,4353)	1:187:A:THR:HG21	1:184:A:ILE:HA	12	0.11
(1,4353)	1:187:A:THR:HG22	1:184:A:ILE:HA	12	0.11
(1,4353)	1:187:A:THR:HG23	1:184:A:ILE:HA	12	0.11
(1,4353)	1:187:A:THR:HG21	1:184:A:ILE:HA	13	0.11
(1,4353)	1:187:A:THR:HG22	1:184:A:ILE:HA	13	0.11
(1,4353)	1:187:A:THR:HG23	1:184:A:ILE:HA	13	0.11
(1,4353)	1:187:A:THR:HG21	1:184:A:ILE:HA	20	0.11
(1,4353)	1:187:A:THR:HG22	1:184:A:ILE:HA	20	0.11
(1,4353)	1:187:A:THR:HG23	1:184:A:ILE:HA	20	0.11
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD11	12	0.11
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD12	12	0.11
(1,4336)	1:51:A:GLU:H	1:196:A:ILE:HD13	12	0.11
(1,4325)	1:203:A:ILE:HG21	1:61:A:LEU:H	2	0.11
(1,4325)	1:203:A:ILE:HG22	1:61:A:LEU:H	2	0.11
(1,4325)	1:203:A:ILE:HG23	1:61:A:LEU:H	2	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4306)	1:102:A:ALA:HA	1:105:A:SER:H	2	0.11
(1,4291)	1:91:A:THR:HG21	1:93:A:ILE:HG21	8	0.11
(1,4291)	1:91:A:THR:HG21	1:93:A:ILE:HG22	8	0.11
(1,4291)	1:91:A:THR:HG21	1:93:A:ILE:HG23	8	0.11
(1,4291)	1:91:A:THR:HG22	1:93:A:ILE:HG21	8	0.11
(1,4291)	1:91:A:THR:HG22	1:93:A:ILE:HG22	8	0.11
(1,4291)	1:91:A:THR:HG22	1:93:A:ILE:HG23	8	0.11
(1,4291)	1:91:A:THR:HG23	1:93:A:ILE:HG21	8	0.11
(1,4291)	1:91:A:THR:HG23	1:93:A:ILE:HG22	8	0.11
(1,4291)	1:91:A:THR:HG23	1:93:A:ILE:HG23	8	0.11
(1,4246)	1:144:A:ILE:H	1:110:A:ASP:HA	8	0.11
(1,4246)	1:144:A:ILE:H	1:110:A:ASP:HA	13	0.11
(1,4245)	1:3:A:PHE:H	1:5:A:ALA:HB1	14	0.11
(1,4245)	1:3:A:PHE:H	1:5:A:ALA:HB2	14	0.11
(1,4245)	1:3:A:PHE:H	1:5:A:ALA:HB3	14	0.11
(1,4245)	1:3:A:PHE:H	1:5:A:ALA:HB1	15	0.11
(1,4245)	1:3:A:PHE:H	1:5:A:ALA:HB2	15	0.11
(1,4245)	1:3:A:PHE:H	1:5:A:ALA:HB3	15	0.11
(1,4234)	1:91:A:THR:H	1:86:A:ARG:HA	1	0.11
(1,4226)	1:8:A:GLN:H	1:91:A:THR:HG21	9	0.11
(1,4226)	1:8:A:GLN:H	1:91:A:THR:HG22	9	0.11
(1,4226)	1:8:A:GLN:H	1:91:A:THR:HG23	9	0.11
(1,4208)	1:176:A:ARG:H	1:144:A:ILE:HG21	12	0.11
(1,4208)	1:176:A:ARG:H	1:144:A:ILE:HG22	12	0.11
(1,4208)	1:176:A:ARG:H	1:144:A:ILE:HG23	12	0.11
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG21	3	0.11
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG22	3	0.11
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG23	3	0.11
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG21	4	0.11
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG22	4	0.11
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG23	4	0.11
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG21	12	0.11
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG22	12	0.11
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG23	12	0.11
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG21	18	0.11
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG22	18	0.11
(1,4185)	1:18:A:ASN:H	1:168:A:VAL:HG23	18	0.11
(1,4171)	1:116:A:TYR:H	1:11:A:ALA:HB1	2	0.11
(1,4171)	1:116:A:TYR:H	1:11:A:ALA:HB2	2	0.11
(1,4171)	1:116:A:TYR:H	1:11:A:ALA:HB3	2	0.11
(1,4150)	1:121:A:GLU:H	1:122:A:GLY:H	9	0.11
(1,4150)	1:121:A:GLU:H	1:122:A:GLY:H	19	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4141)	1:147:A:TYR:H	1:131:A:SER:HB2	12	0.11
(1,4133)	1:28:A:LYS:H	1:37:A:SER:H	6	0.11
(1,4121)	1:196:A:ILE:HD11	1:200:A:LYS:HE3	18	0.11
(1,4121)	1:196:A:ILE:HD12	1:200:A:LYS:HE3	18	0.11
(1,4121)	1:196:A:ILE:HD13	1:200:A:LYS:HE3	18	0.11
(1,4106)	1:96:A:THR:H	1:81:A:TYR:HA	20	0.11
(1,4087)	1:207:A:ARG:H	1:204:A:LYS:HB3	4	0.11
(1,4087)	1:207:A:ARG:H	1:204:A:LYS:HB3	8	0.11
(1,4063)	1:112:A:ILE:HD11	1:95:A:HIS:HA	8	0.11
(1,4063)	1:112:A:ILE:HD12	1:95:A:HIS:HA	8	0.11
(1,4063)	1:112:A:ILE:HD13	1:95:A:HIS:HA	8	0.11
(1,4061)	1:179:A:LEU:H	1:179:A:LEU:HD21	7	0.11
(1,4061)	1:179:A:LEU:H	1:179:A:LEU:HD22	7	0.11
(1,4061)	1:179:A:LEU:H	1:179:A:LEU:HD23	7	0.11
(1,4061)	1:179:A:LEU:H	1:179:A:LEU:HD21	18	0.11
(1,4061)	1:179:A:LEU:H	1:179:A:LEU:HD22	18	0.11
(1,4061)	1:179:A:LEU:H	1:179:A:LEU:HD23	18	0.11
(1,4057)	1:145:A:ARG:H	1:143:A:TYR:HA	10	0.11
(1,4057)	1:145:A:ARG:H	1:143:A:TYR:HA	20	0.11
(1,4005)	1:34:A:THR:H	1:196:A:ILE:HD11	18	0.11
(1,4005)	1:34:A:THR:H	1:196:A:ILE:HD12	18	0.11
(1,4005)	1:34:A:THR:H	1:196:A:ILE:HD13	18	0.11
(1,4002)	1:105:A:SER:HB3	1:183:A:ILE:HD11	6	0.11
(1,4002)	1:105:A:SER:HB3	1:183:A:ILE:HD12	6	0.11
(1,4002)	1:105:A:SER:HB3	1:183:A:ILE:HD13	6	0.11
(1,3936)	1:183:A:ILE:H	1:179:A:LEU:HB2	20	0.11
(1,3918)	1:172:A:GLN:H	1:173:A:THR:HG21	14	0.11
(1,3918)	1:172:A:GLN:H	1:173:A:THR:HG22	14	0.11
(1,3918)	1:172:A:GLN:H	1:173:A:THR:HG23	14	0.11
(1,3914)	1:97:A:ILE:H	1:96:A:THR:H	19	0.11
(1,3887)	1:192:A:LEU:HD11	1:35:A:VAL:HB	16	0.11
(1,3887)	1:192:A:LEU:HD12	1:35:A:VAL:HB	16	0.11
(1,3887)	1:192:A:LEU:HD13	1:35:A:VAL:HB	16	0.11
(1,3872)	1:203:A:ILE:H	1:61:A:LEU:HD21	1	0.11
(1,3872)	1:203:A:ILE:H	1:61:A:LEU:HD22	1	0.11
(1,3872)	1:203:A:ILE:H	1:61:A:LEU:HD23	1	0.11
(1,3872)	1:203:A:ILE:H	1:61:A:LEU:HD21	3	0.11
(1,3872)	1:203:A:ILE:H	1:61:A:LEU:HD22	3	0.11
(1,3872)	1:203:A:ILE:H	1:61:A:LEU:HD23	3	0.11
(1,3872)	1:203:A:ILE:H	1:61:A:LEU:HD21	7	0.11
(1,3872)	1:203:A:ILE:H	1:61:A:LEU:HD22	7	0.11
(1,3872)	1:203:A:ILE:H	1:61:A:LEU:HD23	7	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3872)	1:203:A:ILE:H	1:61:A:LEU:HD21	9	0.11
(1,3872)	1:203:A:ILE:H	1:61:A:LEU:HD22	9	0.11
(1,3872)	1:203:A:ILE:H	1:61:A:LEU:HD23	9	0.11
(1,3865)	1:133:A:ASP:H	1:132:A:VAL:HB	14	0.11
(1,3861)	1:54:A:ILE:HB	1:55:A:PRO:HD3	11	0.11
(1,3828)	1:164:A:TYR:H	1:161:A:ASN:HA	1	0.11
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG11	10	0.11
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG12	10	0.11
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG13	10	0.11
(1,3793)	1:137:A:TYR:H	1:134:A:PHE:HZ	17	0.11
(1,3760)	1:113:A:ASP:H	1:112:A:ILE:HD11	4	0.11
(1,3760)	1:113:A:ASP:H	1:112:A:ILE:HD12	4	0.11
(1,3760)	1:113:A:ASP:H	1:112:A:ILE:HD13	4	0.11
(1,3759)	1:48:A:TYR:H	1:170:A:PHE:HB3	2	0.11
(1,3759)	1:48:A:TYR:H	1:170:A:PHE:HB3	15	0.11
(1,3749)	1:8:A:GLN:H	1:11:A:ALA:H	12	0.11
(1,3717)	1:37:A:SER:H	1:24:A:TRP:HA	15	0.11
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD21	11	0.11
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD22	11	0.11
(1,3711)	1:54:A:ILE:HG12	1:61:A:LEU:HD23	11	0.11
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB1	1	0.11
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB2	1	0.11
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB3	1	0.11
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB1	13	0.11
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB2	13	0.11
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB3	13	0.11
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB1	14	0.11
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB2	14	0.11
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB3	14	0.11
(1,3695)	1:61:A:LEU:HD21	1:199:A:ALA:HA	2	0.11
(1,3695)	1:61:A:LEU:HD22	1:199:A:ALA:HA	2	0.11
(1,3695)	1:61:A:LEU:HD23	1:199:A:ALA:HA	2	0.11
(1,3694)	1:80:A:VAL:HG21	1:79:A:GLN:HG3	12	0.11
(1,3694)	1:80:A:VAL:HG22	1:79:A:GLN:HG3	12	0.11
(1,3694)	1:80:A:VAL:HG23	1:79:A:GLN:HG3	12	0.11
(1,3683)	1:50:A:VAL:H	1:168:A:VAL:HA	6	0.11
(1,3683)	1:50:A:VAL:H	1:168:A:VAL:HA	9	0.11
(1,3673)	1:65:A:LEU:H	1:66:A:TYR:HA	1	0.11
(1,3646)	1:54:A:ILE:HD11	1:203:A:ILE:HG21	13	0.11
(1,3646)	1:54:A:ILE:HD11	1:203:A:ILE:HG22	13	0.11
(1,3646)	1:54:A:ILE:HD11	1:203:A:ILE:HG23	13	0.11
(1,3646)	1:54:A:ILE:HD12	1:203:A:ILE:HG21	13	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3646)	1:54:A:ILE:HD12	1:203:A:ILE:HG22	13	0.11
(1,3646)	1:54:A:ILE:HD12	1:203:A:ILE:HG23	13	0.11
(1,3646)	1:54:A:ILE:HD13	1:203:A:ILE:HG21	13	0.11
(1,3646)	1:54:A:ILE:HD13	1:203:A:ILE:HG22	13	0.11
(1,3646)	1:54:A:ILE:HD13	1:203:A:ILE:HG23	13	0.11
(1,3623)	1:13:A:GLU:H	1:13:A:GLU:HG2	11	0.11
(1,3621)	1:144:A:ILE:HG21	1:177:A:GLY:H	18	0.11
(1,3621)	1:144:A:ILE:HG22	1:177:A:GLY:H	18	0.11
(1,3621)	1:144:A:ILE:HG23	1:177:A:GLY:H	18	0.11
(1,3599)	1:131:A:SER:H	1:132:A:VAL:HA	13	0.11
(1,3592)	1:38:A:LYS:H	1:47:A:LEU:HD21	2	0.11
(1,3592)	1:38:A:LYS:H	1:47:A:LEU:HD22	2	0.11
(1,3592)	1:38:A:LYS:H	1:47:A:LEU:HD23	2	0.11
(1,3589)	1:186:A:LYS:H	1:106:A:ILE:HD11	9	0.11
(1,3589)	1:186:A:LYS:H	1:106:A:ILE:HD12	9	0.11
(1,3589)	1:186:A:LYS:H	1:106:A:ILE:HD13	9	0.11
(1,3589)	1:186:A:LYS:H	1:106:A:ILE:HD11	12	0.11
(1,3589)	1:186:A:LYS:H	1:106:A:ILE:HD12	12	0.11
(1,3589)	1:186:A:LYS:H	1:106:A:ILE:HD13	12	0.11
(1,3573)	1:184:A:ILE:H	1:187:A:THR:H	4	0.11
(1,3573)	1:184:A:ILE:H	1:187:A:THR:H	9	0.11
(1,3573)	1:184:A:ILE:H	1:187:A:THR:H	10	0.11
(1,3573)	1:184:A:ILE:H	1:187:A:THR:H	20	0.11
(1,3572)	1:184:A:ILE:H	1:186:A:LYS:HE3	1	0.11
(1,3572)	1:184:A:ILE:H	1:186:A:LYS:HE3	17	0.11
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG21	2	0.11
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG22	2	0.11
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG23	2	0.11
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG21	14	0.11
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG22	14	0.11
(1,3488)	1:129:A:SER:H	1:115:A:VAL:HG23	14	0.11
(1,3473)	1:1:A:MET:HA	1:4:A:LYS:HB3	4	0.11
(1,3468)	1:26:A:VAL:HG11	1:34:A:THR:HG21	5	0.11
(1,3468)	1:26:A:VAL:HG11	1:34:A:THR:HG22	5	0.11
(1,3468)	1:26:A:VAL:HG11	1:34:A:THR:HG23	5	0.11
(1,3468)	1:26:A:VAL:HG12	1:34:A:THR:HG21	5	0.11
(1,3468)	1:26:A:VAL:HG12	1:34:A:THR:HG22	5	0.11
(1,3468)	1:26:A:VAL:HG12	1:34:A:THR:HG23	5	0.11
(1,3468)	1:26:A:VAL:HG13	1:34:A:THR:HG21	5	0.11
(1,3468)	1:26:A:VAL:HG13	1:34:A:THR:HG22	5	0.11
(1,3468)	1:26:A:VAL:HG13	1:34:A:THR:HG23	5	0.11
(1,3468)	1:26:A:VAL:HG11	1:34:A:THR:HG21	10	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3468)	1:26:A:VAL:HG11	1:34:A:THR:HG22	10	0.11
(1,3468)	1:26:A:VAL:HG11	1:34:A:THR:HG23	10	0.11
(1,3468)	1:26:A:VAL:HG12	1:34:A:THR:HG21	10	0.11
(1,3468)	1:26:A:VAL:HG12	1:34:A:THR:HG22	10	0.11
(1,3468)	1:26:A:VAL:HG12	1:34:A:THR:HG23	10	0.11
(1,3468)	1:26:A:VAL:HG13	1:34:A:THR:HG21	10	0.11
(1,3468)	1:26:A:VAL:HG13	1:34:A:THR:HG22	10	0.11
(1,3468)	1:26:A:VAL:HG13	1:34:A:THR:HG23	10	0.11
(1,3468)	1:26:A:VAL:HG11	1:34:A:THR:HG21	20	0.11
(1,3468)	1:26:A:VAL:HG11	1:34:A:THR:HG22	20	0.11
(1,3468)	1:26:A:VAL:HG11	1:34:A:THR:HG23	20	0.11
(1,3468)	1:26:A:VAL:HG12	1:34:A:THR:HG21	20	0.11
(1,3468)	1:26:A:VAL:HG12	1:34:A:THR:HG22	20	0.11
(1,3468)	1:26:A:VAL:HG12	1:34:A:THR:HG23	20	0.11
(1,3468)	1:26:A:VAL:HG13	1:34:A:THR:HG21	20	0.11
(1,3468)	1:26:A:VAL:HG13	1:34:A:THR:HG22	20	0.11
(1,3468)	1:26:A:VAL:HG13	1:34:A:THR:HG23	20	0.11
(1,3463)	1:40:A:SER:H	1:45:A:GLY:HA3	15	0.11
(1,3440)	1:56:A:GLU:H	1:165:A:SER:HA	12	0.11
(1,3421)	1:99:A:GLN:H	1:109:A:ARG:H	4	0.11
(1,3420)	1:95:A:HIS:H	1:112:A:ILE:HG21	12	0.11
(1,3420)	1:95:A:HIS:H	1:112:A:ILE:HG22	12	0.11
(1,3420)	1:95:A:HIS:H	1:112:A:ILE:HG23	12	0.11
(1,3420)	1:95:A:HIS:H	1:112:A:ILE:HG21	20	0.11
(1,3420)	1:95:A:HIS:H	1:112:A:ILE:HG22	20	0.11
(1,3420)	1:95:A:HIS:H	1:112:A:ILE:HG23	20	0.11
(1,3406)	1:168:A:VAL:HG11	1:166:A:LYS:HE3	4	0.11
(1,3406)	1:168:A:VAL:HG12	1:166:A:LYS:HE3	4	0.11
(1,3406)	1:168:A:VAL:HG13	1:166:A:LYS:HE3	4	0.11
(1,3406)	1:168:A:VAL:HG11	1:166:A:LYS:HE3	6	0.11
(1,3406)	1:168:A:VAL:HG12	1:166:A:LYS:HE3	6	0.11
(1,3406)	1:168:A:VAL:HG13	1:166:A:LYS:HE3	6	0.11
(1,3406)	1:168:A:VAL:HG11	1:166:A:LYS:HE3	20	0.11
(1,3406)	1:168:A:VAL:HG12	1:166:A:LYS:HE3	20	0.11
(1,3406)	1:168:A:VAL:HG13	1:166:A:LYS:HE3	20	0.11
(1,3360)	1:116:A:TYR:H	1:114:A:LEU:HG	10	0.11
(1,3358)	1:15:A:LEU:HD11	1:12:A:GLN:H	4	0.11
(1,3358)	1:15:A:LEU:HD12	1:12:A:GLN:H	4	0.11
(1,3358)	1:15:A:LEU:HD13	1:12:A:GLN:H	4	0.11
(1,3350)	1:24:A:TRP:HD1	1:38:A:LYS:HG3	7	0.11
(1,3260)	1:201:A:ASP:H	1:199:A:ALA:HA	20	0.11
(1,3246)	1:192:A:LEU:H	1:190:A:SER:HA	3	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3239)	1:133:A:ASP:HB2	1:132:A:VAL:HG11	7	0.11
(1,3239)	1:133:A:ASP:HB2	1:132:A:VAL:HG12	7	0.11
(1,3239)	1:133:A:ASP:HB2	1:132:A:VAL:HG13	7	0.11
(1,3239)	1:133:A:ASP:HB2	1:132:A:VAL:HG11	10	0.11
(1,3239)	1:133:A:ASP:HB2	1:132:A:VAL:HG12	10	0.11
(1,3239)	1:133:A:ASP:HB2	1:132:A:VAL:HG13	10	0.11
(1,3239)	1:133:A:ASP:HB2	1:132:A:VAL:HG11	11	0.11
(1,3239)	1:133:A:ASP:HB2	1:132:A:VAL:HG12	11	0.11
(1,3239)	1:133:A:ASP:HB2	1:132:A:VAL:HG13	11	0.11
(1,3221)	1:114:A:LEU:HD11	1:87:A:ILE:HB	15	0.11
(1,3221)	1:114:A:LEU:HD12	1:87:A:ILE:HB	15	0.11
(1,3221)	1:114:A:LEU:HD13	1:87:A:ILE:HB	15	0.11
(1,3114)	1:22:A:SER:H	1:24:A:TRP:HB2	4	0.11
(1,3108)	1:204:A:LYS:HA	1:204:A:LYS:HD3	4	0.11
(1,3096)	1:61:A:LEU:HG	1:57:A:SER:HA	3	0.11
(1,3096)	1:61:A:LEU:HG	1:57:A:SER:HA	8	0.11
(1,3096)	1:61:A:LEU:HG	1:57:A:SER:HA	13	0.11
(1,3091)	1:124:A:MET:H	1:119:A:ARG:HA	16	0.11
(1,3091)	1:124:A:MET:H	1:119:A:ARG:HA	18	0.11
(1,3082)	1:92:A:PHE:H	1:87:A:ILE:HG13	3	0.11
(1,3082)	1:92:A:PHE:H	1:87:A:ILE:HG13	4	0.11
(1,3028)	1:96:A:THR:HG21	1:72:A:ILE:HG12	10	0.11
(1,3028)	1:96:A:THR:HG22	1:72:A:ILE:HG12	10	0.11
(1,3028)	1:96:A:THR:HG23	1:72:A:ILE:HG12	10	0.11
(1,3026)	1:26:A:VAL:HG21	1:27:A:VAL:HA	14	0.11
(1,3026)	1:26:A:VAL:HG22	1:27:A:VAL:HA	14	0.11
(1,3026)	1:26:A:VAL:HG23	1:27:A:VAL:HA	14	0.11
(1,3026)	1:26:A:VAL:HG21	1:27:A:VAL:HA	19	0.11
(1,3026)	1:26:A:VAL:HG22	1:27:A:VAL:HA	19	0.11
(1,3026)	1:26:A:VAL:HG23	1:27:A:VAL:HA	19	0.11
(1,2991)	1:143:A:TYR:H	1:144:A:ILE:HG21	8	0.11
(1,2991)	1:143:A:TYR:H	1:144:A:ILE:HG22	8	0.11
(1,2991)	1:143:A:TYR:H	1:144:A:ILE:HG23	8	0.11
(1,2991)	1:143:A:TYR:H	1:144:A:ILE:HG21	10	0.11
(1,2991)	1:143:A:TYR:H	1:144:A:ILE:HG22	10	0.11
(1,2991)	1:143:A:TYR:H	1:144:A:ILE:HG23	10	0.11
(1,2973)	1:57:A:SER:H	1:203:A:ILE:HG21	3	0.11
(1,2973)	1:57:A:SER:H	1:203:A:ILE:HG22	3	0.11
(1,2973)	1:57:A:SER:H	1:203:A:ILE:HG23	3	0.11
(1,2966)	1:17:A:TYR:H	1:15:A:LEU:HG	13	0.11
(1,2860)	1:211:A:ARG:H	1:208:A:THR:HG21	13	0.11
(1,2860)	1:211:A:ARG:H	1:208:A:THR:HG22	13	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2860)	1:211:A:ARG:H	1:208:A:THR:HG23	13	0.11
(1,2842)	1:68:A:THR:HG21	1:83:A:MET:HA	19	0.11
(1,2842)	1:68:A:THR:HG22	1:83:A:MET:HA	19	0.11
(1,2842)	1:68:A:THR:HG23	1:83:A:MET:HA	19	0.11
(1,2840)	1:165:A:SER:H	1:166:A:LYS:HA	6	0.11
(1,2840)	1:165:A:SER:H	1:166:A:LYS:HA	17	0.11
(1,2839)	1:143:A:TYR:HB2	1:139:A:PRO:HB3	11	0.11
(1,2834)	1:207:A:ARG:H	1:207:A:ARG:HG3	7	0.11
(1,2832)	1:126:A:ILE:H	1:154:A:VAL:HB	20	0.11
(1,2825)	1:68:A:THR:H	1:71:A:ARG:HB2	6	0.11
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG21	1	0.11
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG22	1	0.11
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG23	1	0.11
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG21	1	0.11
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG22	1	0.11
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG23	1	0.11
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG21	1	0.11
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG22	1	0.11
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG23	1	0.11
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG21	17	0.11
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG22	17	0.11
(1,2822)	1:126:A:ILE:HD11	1:10:A:THR:HG23	17	0.11
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG21	17	0.11
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG22	17	0.11
(1,2822)	1:126:A:ILE:HD12	1:10:A:THR:HG23	17	0.11
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG21	17	0.11
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG22	17	0.11
(1,2822)	1:126:A:ILE:HD13	1:10:A:THR:HG23	17	0.11
(1,2777)	1:73:A:THR:HG21	1:202:A:GLY:HA2	11	0.11
(1,2777)	1:73:A:THR:HG22	1:202:A:GLY:HA2	11	0.11
(1,2777)	1:73:A:THR:HG23	1:202:A:GLY:HA2	11	0.11
(1,2770)	1:98:A:THR:H	1:109:A:ARG:HB2	16	0.11
(1,2767)	1:3:A:PHE:HZ	1:93:A:ILE:HG21	20	0.11
(1,2767)	1:3:A:PHE:HZ	1:93:A:ILE:HG22	20	0.11
(1,2767)	1:3:A:PHE:HZ	1:93:A:ILE:HG23	20	0.11
(1,2762)	1:197:A:LEU:H	1:200:A:LYS:H	5	0.11
(1,2762)	1:197:A:LEU:H	1:200:A:LYS:H	11	0.11
(1,2746)	1:87:A:ILE:HD11	1:84:A:VAL:HG21	3	0.11
(1,2746)	1:87:A:ILE:HD11	1:84:A:VAL:HG22	3	0.11
(1,2746)	1:87:A:ILE:HD11	1:84:A:VAL:HG23	3	0.11
(1,2746)	1:87:A:ILE:HD12	1:84:A:VAL:HG21	3	0.11
(1,2746)	1:87:A:ILE:HD12	1:84:A:VAL:HG22	3	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2746)	1:87:A:ILE:HD12	1:84:A:VAL:HG23	3	0.11
(1,2746)	1:87:A:ILE:HD13	1:84:A:VAL:HG21	3	0.11
(1,2746)	1:87:A:ILE:HD13	1:84:A:VAL:HG22	3	0.11
(1,2746)	1:87:A:ILE:HD13	1:84:A:VAL:HG23	3	0.11
(1,2742)	1:4:A:LYS:H	1:2:A:ASP:HA	16	0.11
(1,2739)	1:211:A:ARG:HA	1:214:A:PHE:HA	5	0.11
(1,2704)	1:162:A:PRO:HA	1:162:A:PRO:HD3	12	0.11
(1,2698)	1:132:A:VAL:H	1:130:A:LYS:H	5	0.11
(1,2698)	1:132:A:VAL:H	1:130:A:LYS:H	10	0.11
(1,2697)	1:31:A:LYS:H	1:32:A:LYS:HA	6	0.11
(1,2697)	1:31:A:LYS:H	1:32:A:LYS:HA	13	0.11
(1,2678)	1:205:A:ALA:HB1	1:203:A:ILE:HA	14	0.11
(1,2678)	1:205:A:ALA:HB2	1:203:A:ILE:HA	14	0.11
(1,2678)	1:205:A:ALA:HB3	1:203:A:ILE:HA	14	0.11
(1,2666)	1:69:A:GLY:H	1:72:A:ILE:HG21	15	0.11
(1,2666)	1:69:A:GLY:H	1:72:A:ILE:HG22	15	0.11
(1,2666)	1:69:A:GLY:H	1:72:A:ILE:HG23	15	0.11
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB1	12	0.11
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB2	12	0.11
(1,2664)	1:63:A:ASP:H	1:59:A:ALA:HB3	12	0.11
(1,2658)	1:104:A:GLY:H	1:106:A:ILE:HD11	17	0.11
(1,2658)	1:104:A:GLY:H	1:106:A:ILE:HD12	17	0.11
(1,2658)	1:104:A:GLY:H	1:106:A:ILE:HD13	17	0.11
(1,2642)	1:114:A:LEU:HD11	1:92:A:PHE:HB3	6	0.11
(1,2642)	1:114:A:LEU:HD12	1:92:A:PHE:HB3	6	0.11
(1,2642)	1:114:A:LEU:HD13	1:92:A:PHE:HB3	6	0.11
(1,2642)	1:114:A:LEU:HD11	1:92:A:PHE:HB3	12	0.11
(1,2642)	1:114:A:LEU:HD12	1:92:A:PHE:HB3	12	0.11
(1,2642)	1:114:A:LEU:HD13	1:92:A:PHE:HB3	12	0.11
(1,2636)	1:104:A:GLY:H	1:102:A:ALA:H	12	0.11
(1,2606)	1:159:A:GLU:HA	1:158:A:MET:HB3	2	0.11
(1,2606)	1:159:A:GLU:HA	1:158:A:MET:HB3	20	0.11
(1,2577)	1:94:A:CYS:H	1:112:A:ILE:HD11	1	0.11
(1,2577)	1:94:A:CYS:H	1:112:A:ILE:HD12	1	0.11
(1,2577)	1:94:A:CYS:H	1:112:A:ILE:HD13	1	0.11
(1,2577)	1:94:A:CYS:H	1:112:A:ILE:HD11	8	0.11
(1,2577)	1:94:A:CYS:H	1:112:A:ILE:HD12	8	0.11
(1,2577)	1:94:A:CYS:H	1:112:A:ILE:HD13	8	0.11
(1,2577)	1:94:A:CYS:H	1:112:A:ILE:HD11	15	0.11
(1,2577)	1:94:A:CYS:H	1:112:A:ILE:HD12	15	0.11
(1,2577)	1:94:A:CYS:H	1:112:A:ILE:HD13	15	0.11
(1,2565)	1:190:A:SER:H	1:188:A:MET:HE1	7	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2565)	1:190:A:SER:H	1:188:A:MET:HE2	7	0.11
(1,2565)	1:190:A:SER:H	1:188:A:MET:HE3	7	0.11
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD21	1	0.11
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD22	1	0.11
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD23	1	0.11
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD21	4	0.11
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD22	4	0.11
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD23	4	0.11
(1,2525)	1:33:A:ILE:HD11	1:50:A:VAL:HG11	7	0.11
(1,2525)	1:33:A:ILE:HD11	1:50:A:VAL:HG12	7	0.11
(1,2525)	1:33:A:ILE:HD11	1:50:A:VAL:HG13	7	0.11
(1,2525)	1:33:A:ILE:HD12	1:50:A:VAL:HG11	7	0.11
(1,2525)	1:33:A:ILE:HD12	1:50:A:VAL:HG12	7	0.11
(1,2525)	1:33:A:ILE:HD12	1:50:A:VAL:HG13	7	0.11
(1,2525)	1:33:A:ILE:HD13	1:50:A:VAL:HG11	7	0.11
(1,2525)	1:33:A:ILE:HD13	1:50:A:VAL:HG12	7	0.11
(1,2525)	1:33:A:ILE:HD13	1:50:A:VAL:HG13	7	0.11
(1,2525)	1:33:A:ILE:HD11	1:50:A:VAL:HG11	8	0.11
(1,2525)	1:33:A:ILE:HD11	1:50:A:VAL:HG12	8	0.11
(1,2525)	1:33:A:ILE:HD11	1:50:A:VAL:HG13	8	0.11
(1,2525)	1:33:A:ILE:HD12	1:50:A:VAL:HG11	8	0.11
(1,2525)	1:33:A:ILE:HD12	1:50:A:VAL:HG12	8	0.11
(1,2525)	1:33:A:ILE:HD12	1:50:A:VAL:HG13	8	0.11
(1,2525)	1:33:A:ILE:HD13	1:50:A:VAL:HG11	8	0.11
(1,2525)	1:33:A:ILE:HD13	1:50:A:VAL:HG12	8	0.11
(1,2525)	1:33:A:ILE:HD13	1:50:A:VAL:HG13	8	0.11
(1,2525)	1:33:A:ILE:HD11	1:50:A:VAL:HG11	10	0.11
(1,2525)	1:33:A:ILE:HD11	1:50:A:VAL:HG12	10	0.11
(1,2525)	1:33:A:ILE:HD11	1:50:A:VAL:HG13	10	0.11
(1,2525)	1:33:A:ILE:HD12	1:50:A:VAL:HG11	10	0.11
(1,2525)	1:33:A:ILE:HD12	1:50:A:VAL:HG12	10	0.11
(1,2525)	1:33:A:ILE:HD12	1:50:A:VAL:HG13	10	0.11
(1,2525)	1:33:A:ILE:HD13	1:50:A:VAL:HG11	10	0.11
(1,2525)	1:33:A:ILE:HD13	1:50:A:VAL:HG12	10	0.11
(1,2525)	1:33:A:ILE:HD13	1:50:A:VAL:HG13	10	0.11
(1,2516)	1:137:A:TYR:H	1:112:A:ILE:HD11	19	0.11
(1,2516)	1:137:A:TYR:H	1:112:A:ILE:HD12	19	0.11
(1,2516)	1:137:A:TYR:H	1:112:A:ILE:HD13	19	0.11
(1,2513)	1:60:A:LYS:H	1:61:A:LEU:HD21	2	0.11
(1,2513)	1:60:A:LYS:H	1:61:A:LEU:HD22	2	0.11
(1,2513)	1:60:A:LYS:H	1:61:A:LEU:HD23	2	0.11
(1,2513)	1:60:A:LYS:H	1:61:A:LEU:HD21	7	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2513)	1:60:A:LYS:H	1:61:A:LEU:HD22	7	0.11
(1,2513)	1:60:A:LYS:H	1:61:A:LEU:HD23	7	0.11
(1,2513)	1:60:A:LYS:H	1:61:A:LEU:HD21	15	0.11
(1,2513)	1:60:A:LYS:H	1:61:A:LEU:HD22	15	0.11
(1,2513)	1:60:A:LYS:H	1:61:A:LEU:HD23	15	0.11
(1,2471)	1:154:A:VAL:HG11	1:124:A:MET:HB3	7	0.11
(1,2471)	1:154:A:VAL:HG12	1:124:A:MET:HB3	7	0.11
(1,2471)	1:154:A:VAL:HG13	1:124:A:MET:HB3	7	0.11
(1,2461)	1:160:A:GLU:H	1:161:A:ASN:HA	11	0.11
(1,2415)	1:134:A:PHE:HZ	1:112:A:ILE:HD11	16	0.11
(1,2415)	1:134:A:PHE:HZ	1:112:A:ILE:HD12	16	0.11
(1,2415)	1:134:A:PHE:HZ	1:112:A:ILE:HD13	16	0.11
(1,2404)	1:157:A:PRO:HD2	1:122:A:GLY:HA3	9	0.11
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD21	14	0.11
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD22	14	0.11
(1,2402)	1:63:A:ASP:H	1:61:A:LEU:HD23	14	0.11
(1,2388)	1:72:A:ILE:HG21	1:70:A:ASP:H	10	0.11
(1,2388)	1:72:A:ILE:HG22	1:70:A:ASP:H	10	0.11
(1,2388)	1:72:A:ILE:HG23	1:70:A:ASP:H	10	0.11
(1,2370)	1:155:A:CYS:H	1:126:A:ILE:HG21	11	0.11
(1,2370)	1:155:A:CYS:H	1:126:A:ILE:HG22	11	0.11
(1,2370)	1:155:A:CYS:H	1:126:A:ILE:HG23	11	0.11
(1,2370)	1:155:A:CYS:H	1:126:A:ILE:HG21	13	0.11
(1,2370)	1:155:A:CYS:H	1:126:A:ILE:HG22	13	0.11
(1,2370)	1:155:A:CYS:H	1:126:A:ILE:HG23	13	0.11
(1,2370)	1:155:A:CYS:H	1:126:A:ILE:HG21	16	0.11
(1,2370)	1:155:A:CYS:H	1:126:A:ILE:HG22	16	0.11
(1,2370)	1:155:A:CYS:H	1:126:A:ILE:HG23	16	0.11
(1,2351)	1:80:A:VAL:H	1:81:A:TYR:HB3	2	0.11
(1,2351)	1:80:A:VAL:H	1:81:A:TYR:HB3	3	0.11
(1,2333)	1:53:A:ILE:HG21	1:54:A:ILE:HB	5	0.11
(1,2333)	1:53:A:ILE:HG22	1:54:A:ILE:HB	5	0.11
(1,2333)	1:53:A:ILE:HG23	1:54:A:ILE:HB	5	0.11
(1,2262)	1:144:A:ILE:HA	1:146:A:GLY:H	12	0.11
(1,2170)	1:130:A:LYS:H	1:115:A:VAL:HG21	11	0.11
(1,2170)	1:130:A:LYS:H	1:115:A:VAL:HG22	11	0.11
(1,2170)	1:130:A:LYS:H	1:115:A:VAL:HG23	11	0.11
(1,2170)	1:130:A:LYS:H	1:115:A:VAL:HG21	14	0.11
(1,2170)	1:130:A:LYS:H	1:115:A:VAL:HG22	14	0.11
(1,2170)	1:130:A:LYS:H	1:115:A:VAL:HG23	14	0.11
(1,2169)	1:4:A:LYS:H	1:87:A:ILE:HD11	15	0.11
(1,2169)	1:4:A:LYS:H	1:87:A:ILE:HD12	15	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2169)	1:4:A:LYS:H	1:87:A:ILE:HD13	15	0.11
(1,2137)	1:198:A:ASN:H	1:196:A:ILE:HA	7	0.11
(1,2112)	1:156:A:SER:H	1:124:A:MET:HG3	4	0.11
(1,2099)	1:188:A:MET:HA	1:188:A:MET:HE1	6	0.11
(1,2099)	1:188:A:MET:HA	1:188:A:MET:HE2	6	0.11
(1,2099)	1:188:A:MET:HA	1:188:A:MET:HE3	6	0.11
(1,2043)	1:65:A:LEU:HD11	1:67:A:GLN:H	5	0.11
(1,2043)	1:65:A:LEU:HD12	1:67:A:GLN:H	5	0.11
(1,2043)	1:65:A:LEU:HD13	1:67:A:GLN:H	5	0.11
(1,2030)	1:28:A:LYS:H	1:34:A:THR:HA	9	0.11
(1,2018)	1:48:A:TYR:H	1:49:A:ARG:HA	19	0.11
(1,2018)	1:48:A:TYR:H	1:49:A:ARG:HA	20	0.11
(1,2003)	1:184:A:ILE:HA	1:187:A:THR:HG21	2	0.11
(1,2003)	1:184:A:ILE:HA	1:187:A:THR:HG22	2	0.11
(1,2003)	1:184:A:ILE:HA	1:187:A:THR:HG23	2	0.11
(1,2003)	1:184:A:ILE:HA	1:187:A:THR:HG21	3	0.11
(1,2003)	1:184:A:ILE:HA	1:187:A:THR:HG22	3	0.11
(1,2003)	1:184:A:ILE:HA	1:187:A:THR:HG23	3	0.11
(1,2003)	1:184:A:ILE:HA	1:187:A:THR:HG21	5	0.11
(1,2003)	1:184:A:ILE:HA	1:187:A:THR:HG22	5	0.11
(1,2003)	1:184:A:ILE:HA	1:187:A:THR:HG23	5	0.11
(1,2003)	1:184:A:ILE:HA	1:187:A:THR:HG21	6	0.11
(1,2003)	1:184:A:ILE:HA	1:187:A:THR:HG22	6	0.11
(1,2003)	1:184:A:ILE:HA	1:187:A:THR:HG23	6	0.11
(1,2003)	1:184:A:ILE:HA	1:187:A:THR:HG21	12	0.11
(1,2003)	1:184:A:ILE:HA	1:187:A:THR:HG22	12	0.11
(1,2003)	1:184:A:ILE:HA	1:187:A:THR:HG23	12	0.11
(1,2003)	1:184:A:ILE:HA	1:187:A:THR:HG21	13	0.11
(1,2003)	1:184:A:ILE:HA	1:187:A:THR:HG22	13	0.11
(1,2003)	1:184:A:ILE:HA	1:187:A:THR:HG23	13	0.11
(1,2003)	1:184:A:ILE:HA	1:187:A:THR:HG21	20	0.11
(1,2003)	1:184:A:ILE:HA	1:187:A:THR:HG22	20	0.11
(1,2003)	1:184:A:ILE:HA	1:187:A:THR:HG23	20	0.11
(1,1994)	1:176:A:ARG:H	1:109:A:ARG:HD3	8	0.11
(1,1966)	1:30:A:SER:H	1:35:A:VAL:H	15	0.11
(1,1959)	1:100:A:SER:H	1:98:A:THR:HG21	16	0.11
(1,1959)	1:100:A:SER:H	1:98:A:THR:HG22	16	0.11
(1,1959)	1:100:A:SER:H	1:98:A:THR:HG23	16	0.11
(1,1933)	1:80:A:VAL:H	1:78:A:LEU:HD21	2	0.11
(1,1933)	1:80:A:VAL:H	1:78:A:LEU:HD22	2	0.11
(1,1933)	1:80:A:VAL:H	1:78:A:LEU:HD23	2	0.11
(1,1933)	1:80:A:VAL:H	1:78:A:LEU:HD21	10	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1933)	1:80:A:VAL:H	1:78:A:LEU:HD22	10	0.11
(1,1933)	1:80:A:VAL:H	1:78:A:LEU:HD23	10	0.11
(1,1933)	1:80:A:VAL:H	1:78:A:LEU:HD21	11	0.11
(1,1933)	1:80:A:VAL:H	1:78:A:LEU:HD22	11	0.11
(1,1933)	1:80:A:VAL:H	1:78:A:LEU:HD23	11	0.11
(1,1891)	1:66:A:TYR:H	1:62:A:SER:HA	13	0.11
(1,1871)	1:195:A:PHE:H	1:192:A:LEU:H	8	0.11
(1,1830)	1:114:A:LEU:H	1:132:A:VAL:HA	2	0.11
(1,1830)	1:114:A:LEU:H	1:132:A:VAL:HA	6	0.11
(1,1822)	1:56:A:GLU:H	1:53:A:ILE:HG21	9	0.11
(1,1822)	1:56:A:GLU:H	1:53:A:ILE:HG22	9	0.11
(1,1822)	1:56:A:GLU:H	1:53:A:ILE:HG23	9	0.11
(1,1793)	1:184:A:ILE:HB	1:183:A:ILE:HB	5	0.11
(1,1777)	1:130:A:LYS:H	1:131:A:SER:HA	14	0.11
(1,1762)	1:96:A:THR:HG21	1:95:A:HIS:H	18	0.11
(1,1762)	1:96:A:THR:HG22	1:95:A:HIS:H	18	0.11
(1,1762)	1:96:A:THR:HG23	1:95:A:HIS:H	18	0.11
(1,1751)	1:99:A:GLN:H	1:77:A:SER:HB2	20	0.11
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD11	16	0.11
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD12	16	0.11
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD13	16	0.11
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD11	16	0.11
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD12	16	0.11
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD13	16	0.11
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD11	16	0.11
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD12	16	0.11
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD13	16	0.11
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD11	19	0.11
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD12	19	0.11
(1,1738)	1:115:A:VAL:HG11	1:93:A:ILE:HD13	19	0.11
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD11	19	0.11
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD12	19	0.11
(1,1738)	1:115:A:VAL:HG12	1:93:A:ILE:HD13	19	0.11
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD11	19	0.11
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD12	19	0.11
(1,1738)	1:115:A:VAL:HG13	1:93:A:ILE:HD13	19	0.11
(1,1708)	1:62:A:SER:H	1:59:A:ALA:H	6	0.11
(1,1683)	1:119:A:ARG:H	1:119:A:ARG:HD2	19	0.11
(1,1672)	1:79:A:GLN:HG2	1:99:A:GLN:HB2	9	0.11
(1,1642)	1:154:A:VAL:H	1:169:A:MET:HB3	18	0.11
(1,1620)	1:22:A:SER:H	1:24:A:TRP:HE1	12	0.11
(1,1589)	1:190:A:SER:HB3	1:102:A:ALA:HB1	16	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1589)	1:190:A:SER:HB3	1:102:A:ALA:HB2	16	0.11
(1,1589)	1:190:A:SER:HB3	1:102:A:ALA:HB3	16	0.11
(1,1585)	1:184:A:ILE:HG21	1:188:A:MET:HE1	2	0.11
(1,1585)	1:184:A:ILE:HG21	1:188:A:MET:HE2	2	0.11
(1,1585)	1:184:A:ILE:HG21	1:188:A:MET:HE3	2	0.11
(1,1585)	1:184:A:ILE:HG22	1:188:A:MET:HE1	2	0.11
(1,1585)	1:184:A:ILE:HG22	1:188:A:MET:HE2	2	0.11
(1,1585)	1:184:A:ILE:HG22	1:188:A:MET:HE3	2	0.11
(1,1585)	1:184:A:ILE:HG23	1:188:A:MET:HE1	2	0.11
(1,1585)	1:184:A:ILE:HG23	1:188:A:MET:HE2	2	0.11
(1,1585)	1:184:A:ILE:HG23	1:188:A:MET:HE3	2	0.11
(1,1580)	1:174:A:GLU:H	1:147:A:TYR:HA	9	0.11
(1,1580)	1:174:A:GLU:H	1:147:A:TYR:HA	11	0.11
(1,1516)	1:168:A:VAL:HG21	1:51:A:GLU:HG2	20	0.11
(1,1516)	1:168:A:VAL:HG22	1:51:A:GLU:HG2	20	0.11
(1,1516)	1:168:A:VAL:HG23	1:51:A:GLU:HG2	20	0.11
(1,1471)	1:201:A:ASP:H	1:203:A:ILE:HB	13	0.11
(1,1463)	1:91:A:THR:HA	1:117:A:ILE:HG12	12	0.11
(1,1451)	1:114:A:LEU:HD11	1:93:A:ILE:HB	4	0.11
(1,1451)	1:114:A:LEU:HD12	1:93:A:ILE:HB	4	0.11
(1,1451)	1:114:A:LEU:HD13	1:93:A:ILE:HB	4	0.11
(1,1451)	1:114:A:LEU:HD11	1:93:A:ILE:HB	6	0.11
(1,1451)	1:114:A:LEU:HD12	1:93:A:ILE:HB	6	0.11
(1,1451)	1:114:A:LEU:HD13	1:93:A:ILE:HB	6	0.11
(1,1451)	1:114:A:LEU:HD11	1:93:A:ILE:HB	15	0.11
(1,1451)	1:114:A:LEU:HD12	1:93:A:ILE:HB	15	0.11
(1,1451)	1:114:A:LEU:HD13	1:93:A:ILE:HB	15	0.11
(1,1451)	1:114:A:LEU:HD11	1:93:A:ILE:HB	18	0.11
(1,1451)	1:114:A:LEU:HD12	1:93:A:ILE:HB	18	0.11
(1,1451)	1:114:A:LEU:HD13	1:93:A:ILE:HB	18	0.11
(1,1448)	1:11:A:ALA:HB1	1:15:A:LEU:HD21	4	0.11
(1,1448)	1:11:A:ALA:HB1	1:15:A:LEU:HD22	4	0.11
(1,1448)	1:11:A:ALA:HB1	1:15:A:LEU:HD23	4	0.11
(1,1448)	1:11:A:ALA:HB2	1:15:A:LEU:HD21	4	0.11
(1,1448)	1:11:A:ALA:HB2	1:15:A:LEU:HD22	4	0.11
(1,1448)	1:11:A:ALA:HB2	1:15:A:LEU:HD23	4	0.11
(1,1448)	1:11:A:ALA:HB3	1:15:A:LEU:HD21	4	0.11
(1,1448)	1:11:A:ALA:HB3	1:15:A:LEU:HD22	4	0.11
(1,1448)	1:11:A:ALA:HB3	1:15:A:LEU:HD23	4	0.11
(1,1438)	1:192:A:LEU:HG	1:188:A:MET:HB3	16	0.11
(1,1429)	1:131:A:SER:H	1:147:A:TYR:HA	12	0.11
(1,1415)	1:70:A:ASP:H	1:68:A:THR:HG21	17	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1415)	1:70:A:ASP:H	1:68:A:THR:HG22	17	0.11
(1,1415)	1:70:A:ASP:H	1:68:A:THR:HG23	17	0.11
(1,1339)	1:98:A:THR:H	1:78:A:LEU:HD21	6	0.11
(1,1339)	1:98:A:THR:H	1:78:A:LEU:HD22	6	0.11
(1,1339)	1:98:A:THR:H	1:78:A:LEU:HD23	6	0.11
(1,1315)	1:37:A:SER:H	1:49:A:ARG:H	1	0.11
(1,1315)	1:37:A:SER:H	1:49:A:ARG:H	5	0.11
(1,1315)	1:37:A:SER:H	1:49:A:ARG:H	9	0.11
(1,1315)	1:37:A:SER:H	1:49:A:ARG:H	16	0.11
(1,1310)	1:42:A:LYS:H	1:42:A:LYS:HE2	9	0.11
(1,1293)	1:11:A:ALA:HA	1:14:A:VAL:HB	11	0.11
(1,1262)	1:14:A:VAL:H	1:14:A:VAL:HG21	11	0.11
(1,1262)	1:14:A:VAL:H	1:14:A:VAL:HG22	11	0.11
(1,1262)	1:14:A:VAL:H	1:14:A:VAL:HG23	11	0.11
(1,1260)	1:167:A:LEU:HA	1:196:A:ILE:HD11	6	0.11
(1,1260)	1:167:A:LEU:HA	1:196:A:ILE:HD12	6	0.11
(1,1260)	1:167:A:LEU:HA	1:196:A:ILE:HD13	6	0.11
(1,1252)	1:130:A:LYS:HB3	1:7:A:ALA:HA	14	0.11
(1,1179)	1:160:A:GLU:H	1:158:A:MET:HG2	17	0.11
(1,1174)	1:126:A:ILE:HD11	1:152:A:GLY:H	1	0.11
(1,1174)	1:126:A:ILE:HD12	1:152:A:GLY:H	1	0.11
(1,1174)	1:126:A:ILE:HD13	1:152:A:GLY:H	1	0.11
(1,1174)	1:126:A:ILE:HD11	1:152:A:GLY:H	2	0.11
(1,1174)	1:126:A:ILE:HD12	1:152:A:GLY:H	2	0.11
(1,1174)	1:126:A:ILE:HD13	1:152:A:GLY:H	2	0.11
(1,1174)	1:126:A:ILE:HD11	1:152:A:GLY:H	3	0.11
(1,1174)	1:126:A:ILE:HD12	1:152:A:GLY:H	3	0.11
(1,1174)	1:126:A:ILE:HD13	1:152:A:GLY:H	3	0.11
(1,1171)	1:76:A:LYS:HD3	1:76:A:LYS:HA	15	0.11
(1,1171)	1:76:A:LYS:HD3	1:76:A:LYS:HA	18	0.11
(1,1151)	1:18:A:ASN:HB2	1:49:A:ARG:HG3	8	0.11
(1,1105)	1:167:A:LEU:H	1:156:A:SER:H	19	0.11
(1,1104)	1:115:A:VAL:HG11	1:130:A:LYS:H	10	0.11
(1,1104)	1:115:A:VAL:HG12	1:130:A:LYS:H	10	0.11
(1,1104)	1:115:A:VAL:HG13	1:130:A:LYS:H	10	0.11
(1,1104)	1:115:A:VAL:HG11	1:130:A:LYS:H	14	0.11
(1,1104)	1:115:A:VAL:HG12	1:130:A:LYS:H	14	0.11
(1,1104)	1:115:A:VAL:HG13	1:130:A:LYS:H	14	0.11
(1,1104)	1:115:A:VAL:HG11	1:130:A:LYS:H	17	0.11
(1,1104)	1:115:A:VAL:HG12	1:130:A:LYS:H	17	0.11
(1,1104)	1:115:A:VAL:HG13	1:130:A:LYS:H	17	0.11
(1,1104)	1:115:A:VAL:HG11	1:130:A:LYS:H	20	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1104)	1:115:A:VAL:HG12	1:130:A:LYS:H	20	0.11
(1,1104)	1:115:A:VAL:HG13	1:130:A:LYS:H	20	0.11
(1,1082)	1:194:A:ASN:H	1:193:A:VAL:HB	4	0.11
(1,1082)	1:194:A:ASN:H	1:193:A:VAL:HB	11	0.11
(1,1082)	1:194:A:ASN:H	1:193:A:VAL:HB	16	0.11
(1,1075)	1:12:A:GLN:H	1:118:A:LYS:HE3	1	0.11
(1,1066)	1:144:A:ILE:HA	1:109:A:ARG:HG2	9	0.11
(1,1054)	1:114:A:LEU:H	1:131:A:SER:HB2	13	0.11
(1,1033)	1:144:A:ILE:H	1:109:A:ARG:HD3	8	0.11
(1,1030)	1:26:A:VAL:H	1:36:A:SER:HB2	19	0.11
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB1	12	0.11
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB2	12	0.11
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB3	12	0.11
(1,983)	1:86:A:ARG:HD3	1:86:A:ARG:HB2	7	0.11
(1,934)	1:184:A:ILE:H	1:187:A:THR:HG21	3	0.11
(1,934)	1:184:A:ILE:H	1:187:A:THR:HG22	3	0.11
(1,934)	1:184:A:ILE:H	1:187:A:THR:HG23	3	0.11
(1,923)	1:196:A:ILE:HG21	1:193:A:VAL:HB	2	0.11
(1,923)	1:196:A:ILE:HG22	1:193:A:VAL:HB	2	0.11
(1,923)	1:196:A:ILE:HG23	1:193:A:VAL:HB	2	0.11
(1,906)	1:98:A:THR:HG21	1:96:A:THR:HG21	11	0.11
(1,906)	1:98:A:THR:HG21	1:96:A:THR:HG22	11	0.11
(1,906)	1:98:A:THR:HG21	1:96:A:THR:HG23	11	0.11
(1,906)	1:98:A:THR:HG22	1:96:A:THR:HG21	11	0.11
(1,906)	1:98:A:THR:HG22	1:96:A:THR:HG22	11	0.11
(1,906)	1:98:A:THR:HG22	1:96:A:THR:HG23	11	0.11
(1,906)	1:98:A:THR:HG23	1:96:A:THR:HG21	11	0.11
(1,906)	1:98:A:THR:HG23	1:96:A:THR:HG22	11	0.11
(1,906)	1:98:A:THR:HG23	1:96:A:THR:HG23	11	0.11
(1,905)	1:38:A:LYS:H	1:37:A:SER:H	12	0.11
(1,903)	1:194:A:ASN:HA	1:196:A:ILE:H	15	0.11
(1,903)	1:194:A:ASN:HA	1:196:A:ILE:H	16	0.11
(1,879)	1:121:A:GLU:H	1:119:A:ARG:H	1	0.11
(1,879)	1:121:A:GLU:H	1:119:A:ARG:H	3	0.11
(1,879)	1:121:A:GLU:H	1:119:A:ARG:H	14	0.11
(1,858)	1:101:A:PHE:H	1:102:A:ALA:H	5	0.11
(1,858)	1:101:A:PHE:H	1:102:A:ALA:H	11	0.11
(1,857)	1:185:A:GLU:H	1:187:A:THR:HG21	8	0.11
(1,857)	1:185:A:GLU:H	1:187:A:THR:HG22	8	0.11
(1,857)	1:185:A:GLU:H	1:187:A:THR:HG23	8	0.11
(1,857)	1:185:A:GLU:H	1:187:A:THR:HG21	9	0.11
(1,857)	1:185:A:GLU:H	1:187:A:THR:HG22	9	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,857)	1:185:A:GLU:H	1:187:A:THR:HG23	9	0.11
(1,855)	1:192:A:LEU:H	1:50:A:VAL:HG11	13	0.11
(1,855)	1:192:A:LEU:H	1:50:A:VAL:HG12	13	0.11
(1,855)	1:192:A:LEU:H	1:50:A:VAL:HG13	13	0.11
(1,833)	1:60:A:LYS:HE3	1:203:A:ILE:HD11	19	0.11
(1,833)	1:60:A:LYS:HE3	1:203:A:ILE:HD12	19	0.11
(1,833)	1:60:A:LYS:HE3	1:203:A:ILE:HD13	19	0.11
(1,816)	1:162:A:PRO:HA	1:158:A:MET:H	5	0.11
(1,812)	1:205:A:ALA:H	1:208:A:THR:H	12	0.11
(1,798)	1:199:A:ALA:HB1	1:198:A:ASN:H	9	0.11
(1,798)	1:199:A:ALA:HB2	1:198:A:ASN:H	9	0.11
(1,798)	1:199:A:ALA:HB3	1:198:A:ASN:H	9	0.11
(1,788)	1:208:A:THR:HG21	1:204:A:LYS:HB2	6	0.11
(1,788)	1:208:A:THR:HG22	1:204:A:LYS:HB2	6	0.11
(1,788)	1:208:A:THR:HG23	1:204:A:LYS:HB2	6	0.11
(1,788)	1:208:A:THR:HG21	1:204:A:LYS:HB2	8	0.11
(1,788)	1:208:A:THR:HG22	1:204:A:LYS:HB2	8	0.11
(1,788)	1:208:A:THR:HG23	1:204:A:LYS:HB2	8	0.11
(1,788)	1:208:A:THR:HG21	1:204:A:LYS:HB2	9	0.11
(1,788)	1:208:A:THR:HG22	1:204:A:LYS:HB2	9	0.11
(1,788)	1:208:A:THR:HG23	1:204:A:LYS:HB2	9	0.11
(1,781)	1:171:A:VAL:H	1:47:A:LEU:HA	20	0.11
(1,741)	1:147:A:TYR:H	1:144:A:ILE:HG12	8	0.11
(1,736)	1:61:A:LEU:HG	1:56:A:GLU:HG2	7	0.11
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG21	7	0.11
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG22	7	0.11
(1,720)	1:129:A:SER:H	1:14:A:VAL:HG23	7	0.11
(1,710)	1:150:A:PRO:HB2	1:14:A:VAL:HG21	9	0.11
(1,710)	1:150:A:PRO:HB2	1:14:A:VAL:HG22	9	0.11
(1,710)	1:150:A:PRO:HB2	1:14:A:VAL:HG23	9	0.11
(1,704)	1:109:A:ARG:H	1:97:A:ILE:HG21	9	0.11
(1,704)	1:109:A:ARG:H	1:97:A:ILE:HG22	9	0.11
(1,704)	1:109:A:ARG:H	1:97:A:ILE:HG23	9	0.11
(1,695)	1:158:A:MET:HG3	1:53:A:ILE:HD11	10	0.11
(1,695)	1:158:A:MET:HG3	1:53:A:ILE:HD12	10	0.11
(1,695)	1:158:A:MET:HG3	1:53:A:ILE:HD13	10	0.11
(1,685)	1:204:A:LYS:H	1:203:A:ILE:HG12	15	0.11
(1,665)	1:167:A:LEU:H	1:54:A:ILE:HB	2	0.11
(1,665)	1:167:A:LEU:H	1:54:A:ILE:HB	8	0.11
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD11	15	0.11
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD12	15	0.11
(1,663)	1:54:A:ILE:HD11	1:167:A:LEU:HD13	15	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD11	15	0.11
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD12	15	0.11
(1,663)	1:54:A:ILE:HD12	1:167:A:LEU:HD13	15	0.11
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD11	15	0.11
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD12	15	0.11
(1,663)	1:54:A:ILE:HD13	1:167:A:LEU:HD13	15	0.11
(1,647)	1:37:A:SER:H	1:25:A:LYS:HB2	8	0.11
(1,639)	1:193:A:VAL:H	1:192:A:LEU:HG	14	0.11
(1,637)	1:25:A:LYS:H	1:36:A:SER:HB2	13	0.11
(1,620)	1:101:A:PHE:H	1:98:A:THR:HG21	18	0.11
(1,620)	1:101:A:PHE:H	1:98:A:THR:HG22	18	0.11
(1,620)	1:101:A:PHE:H	1:98:A:THR:HG23	18	0.11
(1,597)	1:75:A:ASP:HA	1:76:A:LYS:HG3	11	0.11
(1,595)	1:37:A:SER:H	1:27:A:VAL:HB	8	0.11
(1,595)	1:37:A:SER:H	1:27:A:VAL:HB	19	0.11
(1,567)	1:156:A:SER:H	1:166:A:LYS:HA	18	0.11
(1,558)	1:34:A:THR:HG21	1:26:A:VAL:H	18	0.11
(1,558)	1:34:A:THR:HG22	1:26:A:VAL:H	18	0.11
(1,558)	1:34:A:THR:HG23	1:26:A:VAL:H	18	0.11
(1,558)	1:34:A:THR:HG21	1:26:A:VAL:H	19	0.11
(1,558)	1:34:A:THR:HG22	1:26:A:VAL:H	19	0.11
(1,558)	1:34:A:THR:HG23	1:26:A:VAL:H	19	0.11
(1,539)	1:206:A:HIS:H	1:202:A:GLY:HA3	7	0.11
(1,430)	1:60:A:LYS:H	1:63:A:ASP:HB2	15	0.11
(1,383)	1:173:A:THR:H	1:47:A:LEU:HG	10	0.11
(1,383)	1:173:A:THR:H	1:47:A:LEU:HG	13	0.11
(1,352)	1:3:A:PHE:HZ	1:3:A:PHE:H	11	0.11
(1,327)	1:171:A:VAL:H	1:49:A:ARG:H	16	0.11
(1,300)	1:130:A:LYS:H	1:150:A:PRO:HA	15	0.11
(1,300)	1:130:A:LYS:H	1:150:A:PRO:HA	18	0.11
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG11	16	0.11
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG12	16	0.11
(1,285)	1:112:A:ILE:HG21	1:84:A:VAL:HG13	16	0.11
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG11	16	0.11
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG12	16	0.11
(1,285)	1:112:A:ILE:HG22	1:84:A:VAL:HG13	16	0.11
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG11	16	0.11
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG12	16	0.11
(1,285)	1:112:A:ILE:HG23	1:84:A:VAL:HG13	16	0.11
(1,268)	1:43:A:PHE:H	1:44:A:HIS:HA	8	0.11
(1,261)	1:26:A:VAL:HG11	1:36:A:SER:H	12	0.11
(1,261)	1:26:A:VAL:HG12	1:36:A:SER:H	12	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,261)	1:26:A:VAL:HG13	1:36:A:SER:H	12	0.11
(1,254)	1:208:A:THR:HB	1:204:A:LYS:HB2	7	0.11
(1,251)	1:61:A:LEU:HG	1:203:A:ILE:HG21	7	0.11
(1,251)	1:61:A:LEU:HG	1:203:A:ILE:HG22	7	0.11
(1,251)	1:61:A:LEU:HG	1:203:A:ILE:HG23	7	0.11
(1,247)	1:52:A:GLY:H	1:168:A:VAL:HG21	6	0.11
(1,247)	1:52:A:GLY:H	1:168:A:VAL:HG22	6	0.11
(1,247)	1:52:A:GLY:H	1:168:A:VAL:HG23	6	0.11
(1,247)	1:52:A:GLY:H	1:168:A:VAL:HG21	14	0.11
(1,247)	1:52:A:GLY:H	1:168:A:VAL:HG22	14	0.11
(1,247)	1:52:A:GLY:H	1:168:A:VAL:HG23	14	0.11
(1,240)	1:128:A:SER:H	1:126:A:ILE:HB	1	0.11
(1,240)	1:128:A:SER:H	1:126:A:ILE:HB	4	0.11
(1,240)	1:128:A:SER:H	1:126:A:ILE:HB	14	0.11
(1,240)	1:128:A:SER:H	1:126:A:ILE:HB	19	0.11
(1,227)	1:168:A:VAL:HG21	1:166:A:LYS:HE3	18	0.11
(1,227)	1:168:A:VAL:HG22	1:166:A:LYS:HE3	18	0.11
(1,227)	1:168:A:VAL:HG23	1:166:A:LYS:HE3	18	0.11
(1,162)	1:167:A:LEU:H	1:168:A:VAL:H	3	0.11
(1,161)	1:200:A:LYS:HE3	1:200:A:LYS:HG2	4	0.11
(1,154)	1:197:A:LEU:HD11	1:198:A:ASN:H	9	0.11
(1,154)	1:197:A:LEU:HD12	1:198:A:ASN:H	9	0.11
(1,154)	1:197:A:LEU:HD13	1:198:A:ASN:H	9	0.11
(1,154)	1:197:A:LEU:HD11	1:198:A:ASN:H	16	0.11
(1,154)	1:197:A:LEU:HD12	1:198:A:ASN:H	16	0.11
(1,154)	1:197:A:LEU:HD13	1:198:A:ASN:H	16	0.11
(1,154)	1:197:A:LEU:HD11	1:198:A:ASN:H	19	0.11
(1,154)	1:197:A:LEU:HD12	1:198:A:ASN:H	19	0.11
(1,154)	1:197:A:LEU:HD13	1:198:A:ASN:H	19	0.11
(1,151)	1:129:A:SER:H	1:150:A:PRO:HA	14	0.11
(1,142)	1:84:A:VAL:HG21	1:93:A:ILE:HG13	6	0.11
(1,142)	1:84:A:VAL:HG22	1:93:A:ILE:HG13	6	0.11
(1,142)	1:84:A:VAL:HG23	1:93:A:ILE:HG13	6	0.11
(1,142)	1:84:A:VAL:HG21	1:93:A:ILE:HG13	11	0.11
(1,142)	1:84:A:VAL:HG22	1:93:A:ILE:HG13	11	0.11
(1,142)	1:84:A:VAL:HG23	1:93:A:ILE:HG13	11	0.11
(1,131)	1:84:A:VAL:HG11	1:82:A:ASN:HB2	6	0.11
(1,131)	1:84:A:VAL:HG12	1:82:A:ASN:HB2	6	0.11
(1,131)	1:84:A:VAL:HG13	1:82:A:ASN:HB2	6	0.11
(1,124)	1:53:A:ILE:H	1:53:A:ILE:HD11	4	0.11
(1,124)	1:53:A:ILE:H	1:53:A:ILE:HD12	4	0.11
(1,124)	1:53:A:ILE:H	1:53:A:ILE:HD13	4	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,124)	1:53:A:ILE:H	1:53:A:ILE:HD11	16	0.11
(1,124)	1:53:A:ILE:H	1:53:A:ILE:HD12	16	0.11
(1,124)	1:53:A:ILE:H	1:53:A:ILE:HD13	16	0.11
(1,77)	1:199:A:ALA:HB1	1:54:A:ILE:HB	9	0.11
(1,77)	1:199:A:ALA:HB2	1:54:A:ILE:HB	9	0.11
(1,77)	1:199:A:ALA:HB3	1:54:A:ILE:HB	9	0.11
(1,77)	1:199:A:ALA:HB1	1:54:A:ILE:HB	13	0.11
(1,77)	1:199:A:ALA:HB2	1:54:A:ILE:HB	13	0.11
(1,77)	1:199:A:ALA:HB3	1:54:A:ILE:HB	13	0.11
(1,77)	1:199:A:ALA:HB1	1:54:A:ILE:HB	16	0.11
(1,77)	1:199:A:ALA:HB2	1:54:A:ILE:HB	16	0.11
(1,77)	1:199:A:ALA:HB3	1:54:A:ILE:HB	16	0.11
(1,77)	1:199:A:ALA:HB1	1:54:A:ILE:HB	20	0.11
(1,77)	1:199:A:ALA:HB2	1:54:A:ILE:HB	20	0.11
(1,77)	1:199:A:ALA:HB3	1:54:A:ILE:HB	20	0.11
(1,67)	1:73:A:THR:HG21	1:72:A:ILE:H	19	0.11
(1,67)	1:73:A:THR:HG22	1:72:A:ILE:H	19	0.11
(1,67)	1:73:A:THR:HG23	1:72:A:ILE:H	19	0.11
(1,42)	1:46:A:ASN:HB2	1:45:A:GLY:H	20	0.11
(1,19)	1:106:A:ILE:HG21	1:109:A:ARG:HD2	12	0.11
(1,19)	1:106:A:ILE:HG22	1:109:A:ARG:HD2	12	0.11
(1,19)	1:106:A:ILE:HG23	1:109:A:ARG:HD2	12	0.11
(1,12)	1:200:A:LYS:HG2	1:200:A:LYS:HE3	4	0.11
(1,4366)	1:83:A:MET:HG2	1:86:A:ARG:HG2	11	0.1
(1,4353)	1:187:A:THR:HG21	1:184:A:ILE:HA	17	0.1
(1,4353)	1:187:A:THR:HG22	1:184:A:ILE:HA	17	0.1
(1,4353)	1:187:A:THR:HG23	1:184:A:ILE:HA	17	0.1
(1,4340)	1:40:A:SER:H	1:43:A:PHE:H	4	0.1
(1,4291)	1:91:A:THR:HG21	1:93:A:ILE:HG21	7	0.1
(1,4291)	1:91:A:THR:HG21	1:93:A:ILE:HG22	7	0.1
(1,4291)	1:91:A:THR:HG21	1:93:A:ILE:HG23	7	0.1
(1,4291)	1:91:A:THR:HG22	1:93:A:ILE:HG21	7	0.1
(1,4291)	1:91:A:THR:HG22	1:93:A:ILE:HG22	7	0.1
(1,4291)	1:91:A:THR:HG22	1:93:A:ILE:HG23	7	0.1
(1,4291)	1:91:A:THR:HG23	1:93:A:ILE:HG21	7	0.1
(1,4291)	1:91:A:THR:HG23	1:93:A:ILE:HG22	7	0.1
(1,4291)	1:91:A:THR:HG23	1:93:A:ILE:HG23	7	0.1
(1,4291)	1:91:A:THR:HG21	1:93:A:ILE:HG21	11	0.1
(1,4291)	1:91:A:THR:HG21	1:93:A:ILE:HG22	11	0.1
(1,4291)	1:91:A:THR:HG21	1:93:A:ILE:HG23	11	0.1
(1,4291)	1:91:A:THR:HG22	1:93:A:ILE:HG21	11	0.1
(1,4291)	1:91:A:THR:HG22	1:93:A:ILE:HG22	11	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4291)	1:91:A:THR:HG22	1:93:A:ILE:HG23	11	0.1
(1,4291)	1:91:A:THR:HG23	1:93:A:ILE:HG21	11	0.1
(1,4291)	1:91:A:THR:HG23	1:93:A:ILE:HG22	11	0.1
(1,4291)	1:91:A:THR:HG23	1:93:A:ILE:HG23	11	0.1
(1,4259)	1:140:A:SER:H	1:141:A:SER:HA	1	0.1
(1,4245)	1:3:A:PHE:H	1:5:A:ALA:HB1	2	0.1
(1,4245)	1:3:A:PHE:H	1:5:A:ALA:HB2	2	0.1
(1,4245)	1:3:A:PHE:H	1:5:A:ALA:HB3	2	0.1
(1,4234)	1:91:A:THR:H	1:86:A:ARG:HA	20	0.1
(1,4224)	1:40:A:SER:HA	1:172:A:GLN:HG3	4	0.1
(1,4203)	1:192:A:LEU:HD21	1:171:A:VAL:HG21	5	0.1
(1,4203)	1:192:A:LEU:HD21	1:171:A:VAL:HG22	5	0.1
(1,4203)	1:192:A:LEU:HD21	1:171:A:VAL:HG23	5	0.1
(1,4203)	1:192:A:LEU:HD22	1:171:A:VAL:HG21	5	0.1
(1,4203)	1:192:A:LEU:HD22	1:171:A:VAL:HG22	5	0.1
(1,4203)	1:192:A:LEU:HD22	1:171:A:VAL:HG23	5	0.1
(1,4203)	1:192:A:LEU:HD23	1:171:A:VAL:HG21	5	0.1
(1,4203)	1:192:A:LEU:HD23	1:171:A:VAL:HG22	5	0.1
(1,4203)	1:192:A:LEU:HD23	1:171:A:VAL:HG23	5	0.1
(1,4195)	1:151:A:CYS:H	1:149:A:HIS:HA	12	0.1
(1,4176)	1:34:A:THR:HG21	1:33:A:ILE:HA	16	0.1
(1,4176)	1:34:A:THR:HG22	1:33:A:ILE:HA	16	0.1
(1,4176)	1:34:A:THR:HG23	1:33:A:ILE:HA	16	0.1
(1,4171)	1:116:A:TYR:H	1:11:A:ALA:HB1	4	0.1
(1,4171)	1:116:A:TYR:H	1:11:A:ALA:HB2	4	0.1
(1,4171)	1:116:A:TYR:H	1:11:A:ALA:HB3	4	0.1
(1,4150)	1:121:A:GLU:H	1:122:A:GLY:H	4	0.1
(1,4150)	1:121:A:GLU:H	1:122:A:GLY:H	5	0.1
(1,4133)	1:28:A:LYS:H	1:37:A:SER:H	20	0.1
(1,4117)	1:137:A:TYR:H	1:134:A:PHE:HA	1	0.1
(1,4095)	1:162:A:PRO:HA	1:58:A:PRO:HG2	4	0.1
(1,4089)	1:127:A:ILE:HD11	1:65:A:LEU:HD11	1	0.1
(1,4089)	1:127:A:ILE:HD11	1:65:A:LEU:HD12	1	0.1
(1,4089)	1:127:A:ILE:HD11	1:65:A:LEU:HD13	1	0.1
(1,4089)	1:127:A:ILE:HD12	1:65:A:LEU:HD11	1	0.1
(1,4089)	1:127:A:ILE:HD12	1:65:A:LEU:HD12	1	0.1
(1,4089)	1:127:A:ILE:HD12	1:65:A:LEU:HD13	1	0.1
(1,4089)	1:127:A:ILE:HD13	1:65:A:LEU:HD11	1	0.1
(1,4089)	1:127:A:ILE:HD13	1:65:A:LEU:HD12	1	0.1
(1,4089)	1:127:A:ILE:HD13	1:65:A:LEU:HD13	1	0.1
(1,4064)	1:77:A:SER:H	1:76:A:LYS:HG3	6	0.1
(1,4061)	1:179:A:LEU:H	1:179:A:LEU:HD21	11	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4061)	1:179:A:LEU:H	1:179:A:LEU:HD22	11	0.1
(1,4061)	1:179:A:LEU:H	1:179:A:LEU:HD23	11	0.1
(1,4046)	1:183:A:ILE:H	1:184:A:ILE:HB	8	0.1
(1,4046)	1:183:A:ILE:H	1:184:A:ILE:HB	17	0.1
(1,4026)	1:86:A:ARG:HA	1:87:A:ILE:HG21	15	0.1
(1,4026)	1:86:A:ARG:HA	1:87:A:ILE:HG22	15	0.1
(1,4026)	1:86:A:ARG:HA	1:87:A:ILE:HG23	15	0.1
(1,3918)	1:172:A:GLN:H	1:173:A:THR:HG21	1	0.1
(1,3918)	1:172:A:GLN:H	1:173:A:THR:HG22	1	0.1
(1,3918)	1:172:A:GLN:H	1:173:A:THR:HG23	1	0.1
(1,3918)	1:172:A:GLN:H	1:173:A:THR:HG21	5	0.1
(1,3918)	1:172:A:GLN:H	1:173:A:THR:HG22	5	0.1
(1,3918)	1:172:A:GLN:H	1:173:A:THR:HG23	5	0.1
(1,3891)	1:24:A:TRP:HD1	1:24:A:TRP:H	3	0.1
(1,3883)	1:166:A:LYS:HB3	1:51:A:GLU:HG3	7	0.1
(1,3882)	1:112:A:ILE:HG21	1:132:A:VAL:HB	9	0.1
(1,3882)	1:112:A:ILE:HG22	1:132:A:VAL:HB	9	0.1
(1,3882)	1:112:A:ILE:HG23	1:132:A:VAL:HB	9	0.1
(1,3865)	1:133:A:ASP:H	1:132:A:VAL:HB	11	0.1
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG11	16	0.1
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG12	16	0.1
(1,3817)	1:191:A:ASN:H	1:193:A:VAL:HG13	16	0.1
(1,3793)	1:137:A:TYR:H	1:134:A:PHE:HZ	3	0.1
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB1	7	0.1
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB2	7	0.1
(1,3707)	1:204:A:LYS:H	1:205:A:ALA:HB3	7	0.1
(1,3683)	1:50:A:VAL:H	1:168:A:VAL:HA	13	0.1
(1,3646)	1:54:A:ILE:HD11	1:203:A:ILE:HG21	6	0.1
(1,3646)	1:54:A:ILE:HD11	1:203:A:ILE:HG22	6	0.1
(1,3646)	1:54:A:ILE:HD11	1:203:A:ILE:HG23	6	0.1
(1,3646)	1:54:A:ILE:HD12	1:203:A:ILE:HG21	6	0.1
(1,3646)	1:54:A:ILE:HD12	1:203:A:ILE:HG22	6	0.1
(1,3646)	1:54:A:ILE:HD12	1:203:A:ILE:HG23	6	0.1
(1,3646)	1:54:A:ILE:HD13	1:203:A:ILE:HG21	6	0.1
(1,3646)	1:54:A:ILE:HD13	1:203:A:ILE:HG22	6	0.1
(1,3646)	1:54:A:ILE:HD13	1:203:A:ILE:HG23	6	0.1
(1,3626)	1:77:A:SER:H	1:76:A:LYS:HD2	19	0.1
(1,3572)	1:184:A:ILE:H	1:186:A:LYS:HE3	4	0.1
(1,3572)	1:184:A:ILE:H	1:186:A:LYS:HE3	7	0.1
(1,3572)	1:184:A:ILE:H	1:186:A:LYS:HE3	10	0.1
(1,3549)	1:76:A:LYS:H	1:198:A:ASN:H	8	0.1
(1,3525)	1:68:A:THR:HG21	1:69:A:GLY:HA3	5	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3525)	1:68:A:THR:HG22	1:69:A:GLY:HA3	5	0.1
(1,3525)	1:68:A:THR:HG23	1:69:A:GLY:HA3	5	0.1
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD11	14	0.1
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD12	14	0.1
(1,3511)	1:199:A:ALA:H	1:54:A:ILE:HD13	14	0.1
(1,3473)	1:1:A:MET:HA	1:4:A:LYS:HB3	2	0.1
(1,3468)	1:26:A:VAL:HG11	1:34:A:THR:HG21	3	0.1
(1,3468)	1:26:A:VAL:HG11	1:34:A:THR:HG22	3	0.1
(1,3468)	1:26:A:VAL:HG11	1:34:A:THR:HG23	3	0.1
(1,3468)	1:26:A:VAL:HG12	1:34:A:THR:HG21	3	0.1
(1,3468)	1:26:A:VAL:HG12	1:34:A:THR:HG22	3	0.1
(1,3468)	1:26:A:VAL:HG12	1:34:A:THR:HG23	3	0.1
(1,3468)	1:26:A:VAL:HG13	1:34:A:THR:HG21	3	0.1
(1,3468)	1:26:A:VAL:HG13	1:34:A:THR:HG22	3	0.1
(1,3468)	1:26:A:VAL:HG13	1:34:A:THR:HG23	3	0.1
(1,3463)	1:40:A:SER:H	1:45:A:GLY:HA3	1	0.1
(1,3420)	1:95:A:HIS:H	1:112:A:ILE:HG21	11	0.1
(1,3420)	1:95:A:HIS:H	1:112:A:ILE:HG22	11	0.1
(1,3420)	1:95:A:HIS:H	1:112:A:ILE:HG23	11	0.1
(1,3420)	1:95:A:HIS:H	1:112:A:ILE:HG21	14	0.1
(1,3420)	1:95:A:HIS:H	1:112:A:ILE:HG22	14	0.1
(1,3420)	1:95:A:HIS:H	1:112:A:ILE:HG23	14	0.1
(1,3419)	1:203:A:ILE:HG21	1:207:A:ARG:H	9	0.1
(1,3419)	1:203:A:ILE:HG22	1:207:A:ARG:H	9	0.1
(1,3419)	1:203:A:ILE:HG23	1:207:A:ARG:H	9	0.1
(1,3406)	1:168:A:VAL:HG11	1:166:A:LYS:HE3	5	0.1
(1,3406)	1:168:A:VAL:HG12	1:166:A:LYS:HE3	5	0.1
(1,3406)	1:168:A:VAL:HG13	1:166:A:LYS:HE3	5	0.1
(1,3406)	1:168:A:VAL:HG11	1:166:A:LYS:HE3	13	0.1
(1,3406)	1:168:A:VAL:HG12	1:166:A:LYS:HE3	13	0.1
(1,3406)	1:168:A:VAL:HG13	1:166:A:LYS:HE3	13	0.1
(1,3360)	1:116:A:TYR:H	1:114:A:LEU:HG	16	0.1
(1,3360)	1:116:A:TYR:H	1:114:A:LEU:HG	19	0.1
(1,3358)	1:15:A:LEU:HD11	1:12:A:GLN:H	2	0.1
(1,3358)	1:15:A:LEU:HD12	1:12:A:GLN:H	2	0.1
(1,3358)	1:15:A:LEU:HD13	1:12:A:GLN:H	2	0.1
(1,3358)	1:15:A:LEU:HD11	1:12:A:GLN:H	13	0.1
(1,3358)	1:15:A:LEU:HD12	1:12:A:GLN:H	13	0.1
(1,3358)	1:15:A:LEU:HD13	1:12:A:GLN:H	13	0.1
(1,3342)	1:180:A:SER:HB3	1:183:A:ILE:HG13	6	0.1
(1,3329)	1:83:A:MET:H	1:82:A:ASN:H	10	0.1
(1,3303)	1:101:A:PHE:HB3	1:106:A:ILE:HD11	13	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3303)	1:101:A:PHE:HB3	1:106:A:ILE:HD12	13	0.1
(1,3303)	1:101:A:PHE:HB3	1:106:A:ILE:HD13	13	0.1
(1,3290)	1:77:A:SER:H	1:99:A:GLN:H	10	0.1
(1,3260)	1:201:A:ASP:H	1:199:A:ALA:HA	11	0.1
(1,3252)	1:96:A:THR:H	1:112:A:ILE:HG21	4	0.1
(1,3252)	1:96:A:THR:H	1:112:A:ILE:HG22	4	0.1
(1,3252)	1:96:A:THR:H	1:112:A:ILE:HG23	4	0.1
(1,3244)	1:29:A:THR:HA	1:193:A:VAL:HG11	17	0.1
(1,3244)	1:29:A:THR:HA	1:193:A:VAL:HG12	17	0.1
(1,3244)	1:29:A:THR:HA	1:193:A:VAL:HG13	17	0.1
(1,3239)	1:133:A:ASP:HB2	1:132:A:VAL:HG11	1	0.1
(1,3239)	1:133:A:ASP:HB2	1:132:A:VAL:HG12	1	0.1
(1,3239)	1:133:A:ASP:HB2	1:132:A:VAL:HG13	1	0.1
(1,3196)	1:36:A:SER:HA	1:24:A:TRP:HE1	5	0.1
(1,3108)	1:204:A:LYS:HA	1:204:A:LYS:HD3	9	0.1
(1,3026)	1:26:A:VAL:HG21	1:27:A:VAL:HA	1	0.1
(1,3026)	1:26:A:VAL:HG22	1:27:A:VAL:HA	1	0.1
(1,3026)	1:26:A:VAL:HG23	1:27:A:VAL:HA	1	0.1
(1,3026)	1:26:A:VAL:HG21	1:27:A:VAL:HA	5	0.1
(1,3026)	1:26:A:VAL:HG22	1:27:A:VAL:HA	5	0.1
(1,3026)	1:26:A:VAL:HG23	1:27:A:VAL:HA	5	0.1
(1,3026)	1:26:A:VAL:HG21	1:27:A:VAL:HA	20	0.1
(1,3026)	1:26:A:VAL:HG22	1:27:A:VAL:HA	20	0.1
(1,3026)	1:26:A:VAL:HG23	1:27:A:VAL:HA	20	0.1
(1,2991)	1:143:A:TYR:H	1:144:A:ILE:HG21	6	0.1
(1,2991)	1:143:A:TYR:H	1:144:A:ILE:HG22	6	0.1
(1,2991)	1:143:A:TYR:H	1:144:A:ILE:HG23	6	0.1
(1,2897)	1:203:A:ILE:HG21	1:206:A:HIS:HB3	4	0.1
(1,2897)	1:203:A:ILE:HG22	1:206:A:HIS:HB3	4	0.1
(1,2897)	1:203:A:ILE:HG23	1:206:A:HIS:HB3	4	0.1
(1,2840)	1:165:A:SER:H	1:166:A:LYS:HA	4	0.1
(1,2839)	1:143:A:TYR:HB2	1:139:A:PRO:HB3	10	0.1
(1,2832)	1:126:A:ILE:H	1:154:A:VAL:HB	4	0.1
(1,2832)	1:126:A:ILE:H	1:154:A:VAL:HB	9	0.1
(1,2762)	1:197:A:LEU:H	1:200:A:LYS:H	19	0.1
(1,2739)	1:211:A:ARG:HA	1:214:A:PHE:HA	3	0.1
(1,2739)	1:211:A:ARG:HA	1:214:A:PHE:HA	9	0.1
(1,2698)	1:132:A:VAL:H	1:130:A:LYS:H	6	0.1
(1,2658)	1:104:A:GLY:H	1:106:A:ILE:HD11	9	0.1
(1,2658)	1:104:A:GLY:H	1:106:A:ILE:HD12	9	0.1
(1,2658)	1:104:A:GLY:H	1:106:A:ILE:HD13	9	0.1
(1,2642)	1:114:A:LEU:HD11	1:92:A:PHE:HB3	19	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2642)	1:114:A:LEU:HD12	1:92:A:PHE:HB3	19	0.1
(1,2642)	1:114:A:LEU:HD13	1:92:A:PHE:HB3	19	0.1
(1,2606)	1:159:A:GLU:HA	1:158:A:MET:HB3	1	0.1
(1,2606)	1:159:A:GLU:HA	1:158:A:MET:HB3	7	0.1
(1,2545)	1:84:A:VAL:H	1:95:A:HIS:HA	19	0.1
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD21	13	0.1
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD22	13	0.1
(1,2536)	1:156:A:SER:H	1:167:A:LEU:HD23	13	0.1
(1,2513)	1:60:A:LYS:H	1:61:A:LEU:HD21	8	0.1
(1,2513)	1:60:A:LYS:H	1:61:A:LEU:HD22	8	0.1
(1,2513)	1:60:A:LYS:H	1:61:A:LEU:HD23	8	0.1
(1,2461)	1:160:A:GLU:H	1:161:A:ASN:HA	1	0.1
(1,2461)	1:160:A:GLU:H	1:161:A:ASN:HA	13	0.1
(1,2457)	1:57:A:SER:H	1:56:A:GLU:HB3	2	0.1
(1,2394)	1:88:A:ASP:H	1:87:A:ILE:HG13	18	0.1
(1,2370)	1:155:A:CYS:H	1:126:A:ILE:HG21	4	0.1
(1,2370)	1:155:A:CYS:H	1:126:A:ILE:HG22	4	0.1
(1,2370)	1:155:A:CYS:H	1:126:A:ILE:HG23	4	0.1
(1,2370)	1:155:A:CYS:H	1:126:A:ILE:HG21	14	0.1
(1,2370)	1:155:A:CYS:H	1:126:A:ILE:HG22	14	0.1
(1,2370)	1:155:A:CYS:H	1:126:A:ILE:HG23	14	0.1
(1,2351)	1:80:A:VAL:H	1:81:A:TYR:HB3	14	0.1
(1,2333)	1:53:A:ILE:HG21	1:54:A:ILE:HB	12	0.1
(1,2333)	1:53:A:ILE:HG22	1:54:A:ILE:HB	12	0.1
(1,2333)	1:53:A:ILE:HG23	1:54:A:ILE:HB	12	0.1
(1,2281)	1:54:A:ILE:HD11	1:52:A:GLY:H	16	0.1
(1,2281)	1:54:A:ILE:HD12	1:52:A:GLY:H	16	0.1
(1,2281)	1:54:A:ILE:HD13	1:52:A:GLY:H	16	0.1
(1,2281)	1:54:A:ILE:HD11	1:52:A:GLY:H	18	0.1
(1,2281)	1:54:A:ILE:HD12	1:52:A:GLY:H	18	0.1
(1,2281)	1:54:A:ILE:HD13	1:52:A:GLY:H	18	0.1
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG11	2	0.1
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG12	2	0.1
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG13	2	0.1
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG11	2	0.1
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG12	2	0.1
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG13	2	0.1
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG11	2	0.1
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG12	2	0.1
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG13	2	0.1
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG11	17	0.1
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG12	17	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2270)	1:6:A:ILE:HD11	1:132:A:VAL:HG13	17	0.1
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG11	17	0.1
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG12	17	0.1
(1,2270)	1:6:A:ILE:HD12	1:132:A:VAL:HG13	17	0.1
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG11	17	0.1
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG12	17	0.1
(1,2270)	1:6:A:ILE:HD13	1:132:A:VAL:HG13	17	0.1
(1,2250)	1:102:A:ALA:HB1	1:183:A:ILE:HD11	5	0.1
(1,2250)	1:102:A:ALA:HB1	1:183:A:ILE:HD12	5	0.1
(1,2250)	1:102:A:ALA:HB1	1:183:A:ILE:HD13	5	0.1
(1,2250)	1:102:A:ALA:HB2	1:183:A:ILE:HD11	5	0.1
(1,2250)	1:102:A:ALA:HB2	1:183:A:ILE:HD12	5	0.1
(1,2250)	1:102:A:ALA:HB2	1:183:A:ILE:HD13	5	0.1
(1,2250)	1:102:A:ALA:HB3	1:183:A:ILE:HD11	5	0.1
(1,2250)	1:102:A:ALA:HB3	1:183:A:ILE:HD12	5	0.1
(1,2250)	1:102:A:ALA:HB3	1:183:A:ILE:HD13	5	0.1
(1,2250)	1:102:A:ALA:HB1	1:183:A:ILE:HD11	17	0.1
(1,2250)	1:102:A:ALA:HB1	1:183:A:ILE:HD12	17	0.1
(1,2250)	1:102:A:ALA:HB1	1:183:A:ILE:HD13	17	0.1
(1,2250)	1:102:A:ALA:HB2	1:183:A:ILE:HD11	17	0.1
(1,2250)	1:102:A:ALA:HB2	1:183:A:ILE:HD12	17	0.1
(1,2250)	1:102:A:ALA:HB2	1:183:A:ILE:HD13	17	0.1
(1,2250)	1:102:A:ALA:HB3	1:183:A:ILE:HD11	17	0.1
(1,2250)	1:102:A:ALA:HB3	1:183:A:ILE:HD12	17	0.1
(1,2250)	1:102:A:ALA:HB3	1:183:A:ILE:HD13	17	0.1
(1,2172)	1:174:A:GLU:H	1:174:A:GLU:HG2	5	0.1
(1,2172)	1:174:A:GLU:H	1:174:A:GLU:HG2	11	0.1
(1,2126)	1:194:A:ASN:H	1:197:A:LEU:HG	19	0.1
(1,2075)	1:154:A:VAL:HG21	1:168:A:VAL:HB	18	0.1
(1,2075)	1:154:A:VAL:HG22	1:168:A:VAL:HB	18	0.1
(1,2075)	1:154:A:VAL:HG23	1:168:A:VAL:HB	18	0.1
(1,2047)	1:8:A:GLN:H	1:8:A:GLN:HB2	20	0.1
(1,2030)	1:28:A:LYS:H	1:34:A:THR:HA	6	0.1
(1,2018)	1:48:A:TYR:H	1:49:A:ARG:HA	5	0.1
(1,2003)	1:184:A:ILE:HA	1:187:A:THR:HG21	17	0.1
(1,2003)	1:184:A:ILE:HA	1:187:A:THR:HG22	17	0.1
(1,2003)	1:184:A:ILE:HA	1:187:A:THR:HG23	17	0.1
(1,1867)	1:75:A:ASP:H	1:74:A:TRP:HE1	11	0.1
(1,1848)	1:134:A:PHE:H	1:137:A:TYR:H	4	0.1
(1,1822)	1:56:A:GLU:H	1:53:A:ILE:HG21	12	0.1
(1,1822)	1:56:A:GLU:H	1:53:A:ILE:HG22	12	0.1
(1,1822)	1:56:A:GLU:H	1:53:A:ILE:HG23	12	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1822)	1:56:A:GLU:H	1:53:A:ILE:HG21	13	0.1
(1,1822)	1:56:A:GLU:H	1:53:A:ILE:HG22	13	0.1
(1,1822)	1:56:A:GLU:H	1:53:A:ILE:HG23	13	0.1
(1,1793)	1:184:A:ILE:HB	1:183:A:ILE:HB	17	0.1
(1,1777)	1:130:A:LYS:H	1:131:A:SER:HA	1	0.1
(1,1771)	1:63:A:ASP:H	1:61:A:LEU:HB2	4	0.1
(1,1771)	1:63:A:ASP:H	1:61:A:LEU:HB2	11	0.1
(1,1771)	1:63:A:ASP:H	1:61:A:LEU:HB2	19	0.1
(1,1750)	1:120:A:TYR:HB2	1:123:A:ASN:HB2	8	0.1
(1,1699)	1:196:A:ILE:HG21	1:199:A:ALA:HB1	8	0.1
(1,1699)	1:196:A:ILE:HG21	1:199:A:ALA:HB2	8	0.1
(1,1699)	1:196:A:ILE:HG21	1:199:A:ALA:HB3	8	0.1
(1,1699)	1:196:A:ILE:HG22	1:199:A:ALA:HB1	8	0.1
(1,1699)	1:196:A:ILE:HG22	1:199:A:ALA:HB2	8	0.1
(1,1699)	1:196:A:ILE:HG22	1:199:A:ALA:HB3	8	0.1
(1,1699)	1:196:A:ILE:HG23	1:199:A:ALA:HB1	8	0.1
(1,1699)	1:196:A:ILE:HG23	1:199:A:ALA:HB2	8	0.1
(1,1699)	1:196:A:ILE:HG23	1:199:A:ALA:HB3	8	0.1
(1,1585)	1:184:A:ILE:HG21	1:188:A:MET:HE1	4	0.1
(1,1585)	1:184:A:ILE:HG21	1:188:A:MET:HE2	4	0.1
(1,1585)	1:184:A:ILE:HG21	1:188:A:MET:HE3	4	0.1
(1,1585)	1:184:A:ILE:HG22	1:188:A:MET:HE1	4	0.1
(1,1585)	1:184:A:ILE:HG22	1:188:A:MET:HE2	4	0.1
(1,1585)	1:184:A:ILE:HG22	1:188:A:MET:HE3	4	0.1
(1,1585)	1:184:A:ILE:HG23	1:188:A:MET:HE1	4	0.1
(1,1585)	1:184:A:ILE:HG23	1:188:A:MET:HE2	4	0.1
(1,1585)	1:184:A:ILE:HG23	1:188:A:MET:HE3	4	0.1
(1,1451)	1:114:A:LEU:HD11	1:93:A:ILE:HB	17	0.1
(1,1451)	1:114:A:LEU:HD12	1:93:A:ILE:HB	17	0.1
(1,1451)	1:114:A:LEU:HD13	1:93:A:ILE:HB	17	0.1
(1,1375)	1:19:A:ARG:H	1:15:A:LEU:HD21	8	0.1
(1,1375)	1:19:A:ARG:H	1:15:A:LEU:HD22	8	0.1
(1,1375)	1:19:A:ARG:H	1:15:A:LEU:HD23	8	0.1
(1,1310)	1:42:A:LYS:H	1:42:A:LYS:HE2	3	0.1
(1,1295)	1:203:A:ILE:HG21	1:204:A:LYS:HB3	9	0.1
(1,1295)	1:203:A:ILE:HG22	1:204:A:LYS:HB3	9	0.1
(1,1295)	1:203:A:ILE:HG23	1:204:A:LYS:HB3	9	0.1
(1,1293)	1:11:A:ALA:HA	1:14:A:VAL:HB	13	0.1
(1,1174)	1:126:A:ILE:HD11	1:152:A:GLY:H	6	0.1
(1,1174)	1:126:A:ILE:HD12	1:152:A:GLY:H	6	0.1
(1,1174)	1:126:A:ILE:HD13	1:152:A:GLY:H	6	0.1
(1,1174)	1:126:A:ILE:HD11	1:152:A:GLY:H	20	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1174)	1:126:A:ILE:HD12	1:152:A:GLY:H	20	0.1
(1,1174)	1:126:A:ILE:HD13	1:152:A:GLY:H	20	0.1
(1,1134)	1:75:A:ASP:H	1:78:A:LEU:HD11	9	0.1
(1,1134)	1:75:A:ASP:H	1:78:A:LEU:HD12	9	0.1
(1,1134)	1:75:A:ASP:H	1:78:A:LEU:HD13	9	0.1
(1,1123)	1:193:A:VAL:H	1:191:A:ASN:HA	3	0.1
(1,1105)	1:167:A:LEU:H	1:156:A:SER:H	16	0.1
(1,1082)	1:194:A:ASN:H	1:193:A:VAL:HB	1	0.1
(1,1067)	1:70:A:ASP:HB3	1:73:A:THR:H	5	0.1
(1,1033)	1:144:A:ILE:H	1:109:A:ARG:HD3	16	0.1
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB1	1	0.1
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB2	1	0.1
(1,995)	1:13:A:GLU:H	1:11:A:ALA:HB3	1	0.1
(1,923)	1:196:A:ILE:HG21	1:193:A:VAL:HB	19	0.1
(1,923)	1:196:A:ILE:HG22	1:193:A:VAL:HB	19	0.1
(1,923)	1:196:A:ILE:HG23	1:193:A:VAL:HB	19	0.1
(1,903)	1:194:A:ASN:HA	1:196:A:ILE:H	3	0.1
(1,873)	1:156:A:SER:H	1:155:A:CYS:H	18	0.1
(1,855)	1:192:A:LEU:H	1:50:A:VAL:HG11	18	0.1
(1,855)	1:192:A:LEU:H	1:50:A:VAL:HG12	18	0.1
(1,855)	1:192:A:LEU:H	1:50:A:VAL:HG13	18	0.1
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG11	20	0.1
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG12	20	0.1
(1,807)	1:136:A:GLU:HA	1:84:A:VAL:HG13	20	0.1
(1,798)	1:199:A:ALA:HB1	1:198:A:ASN:H	17	0.1
(1,798)	1:199:A:ALA:HB2	1:198:A:ASN:H	17	0.1
(1,798)	1:199:A:ALA:HB3	1:198:A:ASN:H	17	0.1
(1,791)	1:94:A:CYS:H	1:115:A:VAL:HG21	1	0.1
(1,791)	1:94:A:CYS:H	1:115:A:VAL:HG22	1	0.1
(1,791)	1:94:A:CYS:H	1:115:A:VAL:HG23	1	0.1
(1,788)	1:208:A:THR:HG21	1:204:A:LYS:HB2	15	0.1
(1,788)	1:208:A:THR:HG22	1:204:A:LYS:HB2	15	0.1
(1,788)	1:208:A:THR:HG23	1:204:A:LYS:HB2	15	0.1
(1,749)	1:105:A:SER:HB2	1:179:A:LEU:HG	9	0.1
(1,741)	1:147:A:TYR:H	1:144:A:ILE:HG12	3	0.1
(1,736)	1:61:A:LEU:HG	1:56:A:GLU:HG2	1	0.1
(1,736)	1:61:A:LEU:HG	1:56:A:GLU:HG2	11	0.1
(1,736)	1:61:A:LEU:HG	1:56:A:GLU:HG2	13	0.1
(1,704)	1:109:A:ARG:H	1:97:A:ILE:HG21	7	0.1
(1,704)	1:109:A:ARG:H	1:97:A:ILE:HG22	7	0.1
(1,704)	1:109:A:ARG:H	1:97:A:ILE:HG23	7	0.1
(1,704)	1:109:A:ARG:H	1:97:A:ILE:HG21	20	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,704)	1:109:A:ARG:H	1:97:A:ILE:HG22	20	0.1
(1,704)	1:109:A:ARG:H	1:97:A:ILE:HG23	20	0.1
(1,703)	1:98:A:THR:H	1:79:A:GLN:HG3	3	0.1
(1,703)	1:98:A:THR:H	1:79:A:GLN:HG3	15	0.1
(1,685)	1:204:A:LYS:H	1:203:A:ILE:HG12	8	0.1
(1,685)	1:204:A:LYS:H	1:203:A:ILE:HG12	10	0.1
(1,683)	1:157:A:PRO:HD2	1:124:A:MET:HB2	18	0.1
(1,643)	1:81:A:TYR:H	1:72:A:ILE:HD11	12	0.1
(1,643)	1:81:A:TYR:H	1:72:A:ILE:HD12	12	0.1
(1,643)	1:81:A:TYR:H	1:72:A:ILE:HD13	12	0.1
(1,639)	1:193:A:VAL:H	1:192:A:LEU:HG	20	0.1
(1,566)	1:36:A:SER:HB2	1:26:A:VAL:HG11	4	0.1
(1,566)	1:36:A:SER:HB2	1:26:A:VAL:HG12	4	0.1
(1,566)	1:36:A:SER:HB2	1:26:A:VAL:HG13	4	0.1
(1,534)	1:71:A:ARG:HD2	1:65:A:LEU:HA	16	0.1
(1,379)	1:69:A:GLY:HA2	1:72:A:ILE:H	18	0.1
(1,349)	1:205:A:ALA:H	1:201:A:ASP:HA	9	0.1
(1,327)	1:171:A:VAL:H	1:49:A:ARG:H	11	0.1
(1,247)	1:52:A:GLY:H	1:168:A:VAL:HG21	9	0.1
(1,247)	1:52:A:GLY:H	1:168:A:VAL:HG22	9	0.1
(1,247)	1:52:A:GLY:H	1:168:A:VAL:HG23	9	0.1
(1,221)	1:186:A:LYS:HE3	1:102:A:ALA:HB1	8	0.1
(1,221)	1:186:A:LYS:HE3	1:102:A:ALA:HB2	8	0.1
(1,221)	1:186:A:LYS:HE3	1:102:A:ALA:HB3	8	0.1
(1,154)	1:197:A:LEU:HD11	1:198:A:ASN:H	15	0.1
(1,154)	1:197:A:LEU:HD12	1:198:A:ASN:H	15	0.1
(1,154)	1:197:A:LEU:HD13	1:198:A:ASN:H	15	0.1
(1,147)	1:6:A:ILE:HD11	1:9:A:GLN:H	15	0.1
(1,147)	1:6:A:ILE:HD12	1:9:A:GLN:H	15	0.1
(1,147)	1:6:A:ILE:HD13	1:9:A:GLN:H	15	0.1
(1,147)	1:6:A:ILE:HD11	1:9:A:GLN:H	18	0.1
(1,147)	1:6:A:ILE:HD12	1:9:A:GLN:H	18	0.1
(1,147)	1:6:A:ILE:HD13	1:9:A:GLN:H	18	0.1
(1,124)	1:53:A:ILE:H	1:53:A:ILE:HD11	20	0.1
(1,124)	1:53:A:ILE:H	1:53:A:ILE:HD12	20	0.1
(1,124)	1:53:A:ILE:H	1:53:A:ILE:HD13	20	0.1
(1,118)	1:25:A:LYS:H	1:25:A:LYS:HG3	13	0.1
(1,99)	1:7:A:ALA:HB1	1:6:A:ILE:HB	14	0.1
(1,99)	1:7:A:ALA:HB2	1:6:A:ILE:HB	14	0.1
(1,99)	1:7:A:ALA:HB3	1:6:A:ILE:HB	14	0.1

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

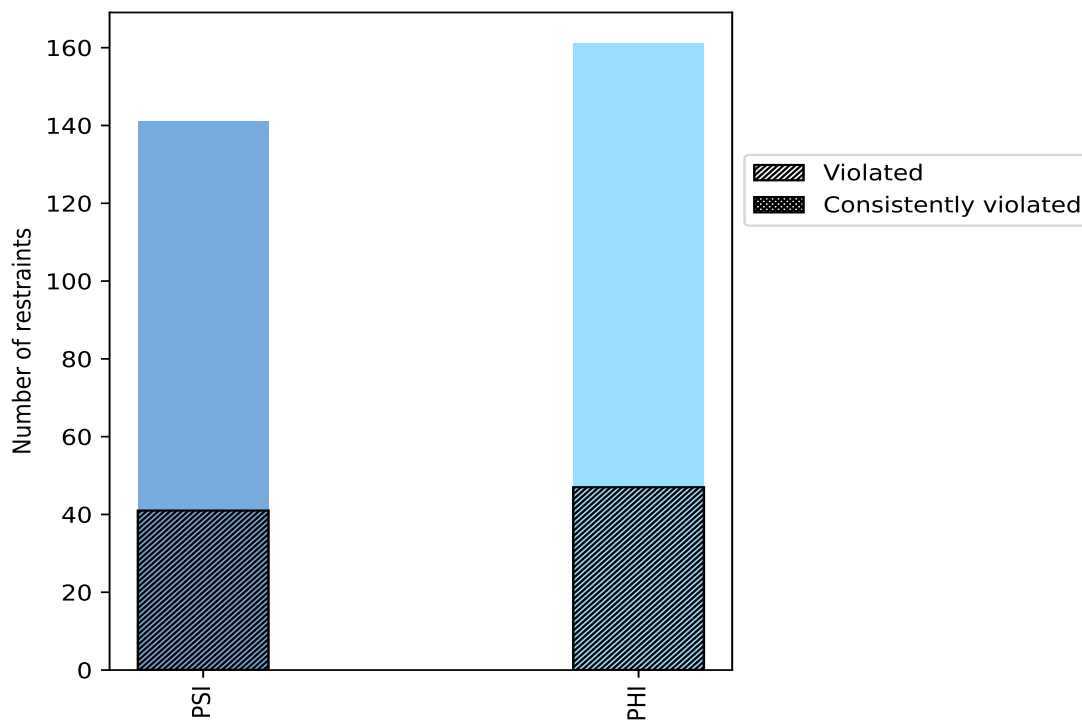
### 10.1 Summary of dihedral-angle violations [i](#)

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

Angle type	Count	% <sup>1</sup>	Violated <sup>3</sup>			Consistently Violated <sup>4</sup>		
			Count	% <sup>2</sup>	% <sup>1</sup>	Count	% <sup>2</sup>	% <sup>1</sup>
PSI	141	46.7	41	29.1	13.6	0	0.0	0.0
PHI	161	53.3	47	29.2	15.6	0	0.0	0.0
Total	302	100.0	88	29.1	29.1	0	0.0	0.0

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

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



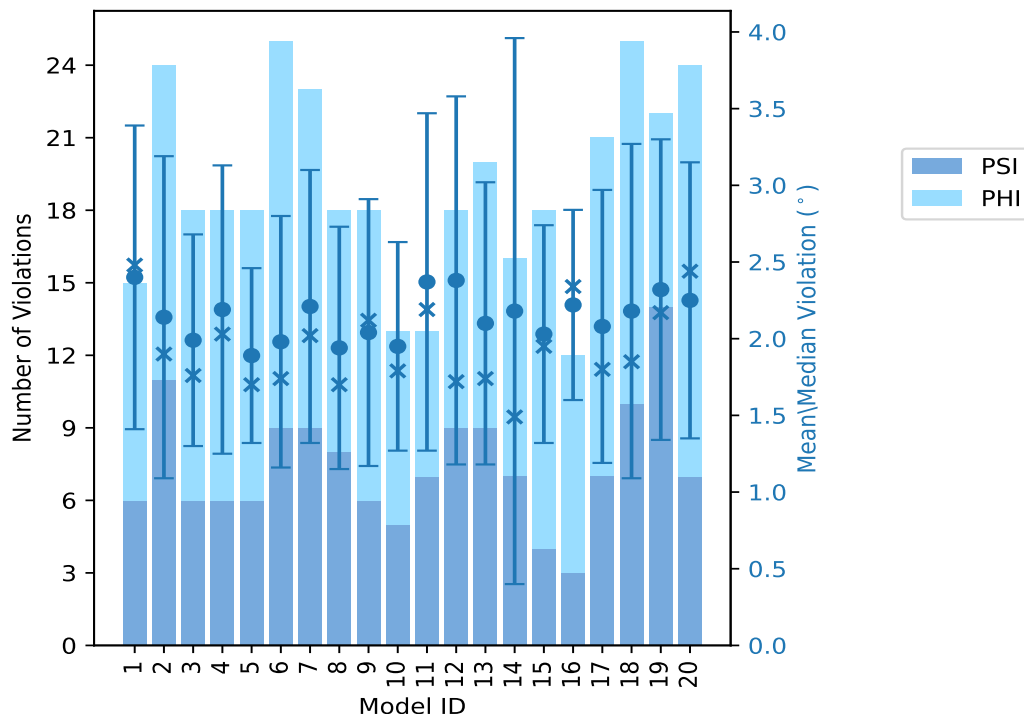
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

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

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

Model ID	Number of violations			Mean (°)	Max (°)	SD (°)	Median (°)
	PSI	PHI	Total				
1	6	9	15	2.4	4.54	0.99	2.48
2	11	13	24	2.14	5.42	1.05	1.9
3	6	12	18	1.99	3.08	0.69	1.76
4	6	12	18	2.19	5.09	0.94	2.03
5	6	12	18	1.89	3.05	0.57	1.7
6	9	16	25	1.98	3.91	0.82	1.74
7	9	14	23	2.21	4.2	0.89	2.02
8	8	10	18	1.94	3.67	0.79	1.7
9	6	12	18	2.04	3.88	0.87	2.12
10	5	8	13	1.95	3.01	0.68	1.79
11	7	6	13	2.37	5.34	1.1	2.19
12	9	9	18	2.38	4.56	1.2	1.72
13	9	11	20	2.1	4.11	0.92	1.74
14	7	9	16	2.18	8.36	1.78	1.49
15	4	14	18	2.03	3.38	0.71	1.95
16	3	9	12	2.22	3.0	0.62	2.34
17	7	14	21	2.08	3.89	0.89	1.8
18	10	15	25	2.18	6.36	1.09	1.85
19	14	8	22	2.32	3.96	0.98	2.17
20	7	17	24	2.25	4.14	0.9	2.44

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



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

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

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

Number of violated restraints			Fraction of the ensemble	
PSI	PHI	Total	Count <sup>1</sup>	%
11	17	28	1	5.0
6	7	13	2	10.0
7	5	12	3	15.0
6	2	8	4	20.0
4	0	4	5	25.0
2	3	5	6	30.0
0	3	3	7	35.0
2	3	5	8	40.0
1	0	1	9	45.0
1	0	1	10	50.0
0	0	0	11	55.0

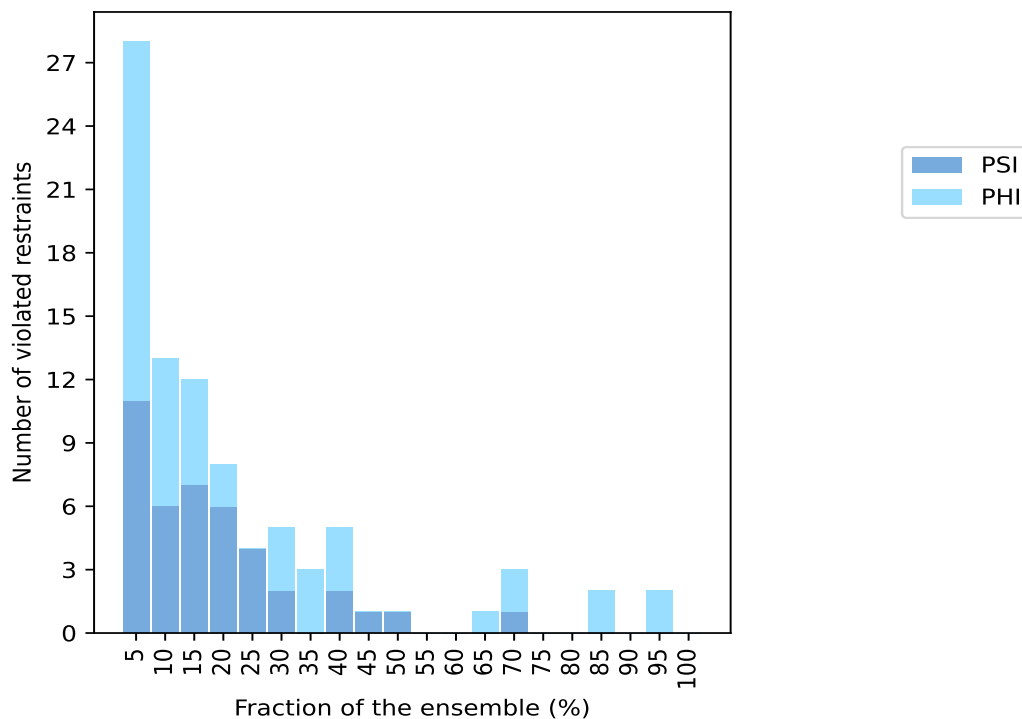
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Number of violated restraints			Fraction of the ensemble	
PSI	PHI	Total	Count <sup>1</sup>	%
0	0	0	12	60.0
0	1	1	13	65.0
1	2	3	14	70.0
0	0	0	15	75.0
0	0	0	16	80.0
0	2	2	17	85.0
0	0	0	18	90.0
0	2	2	19	95.0
0	0	0	20	100.0

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

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

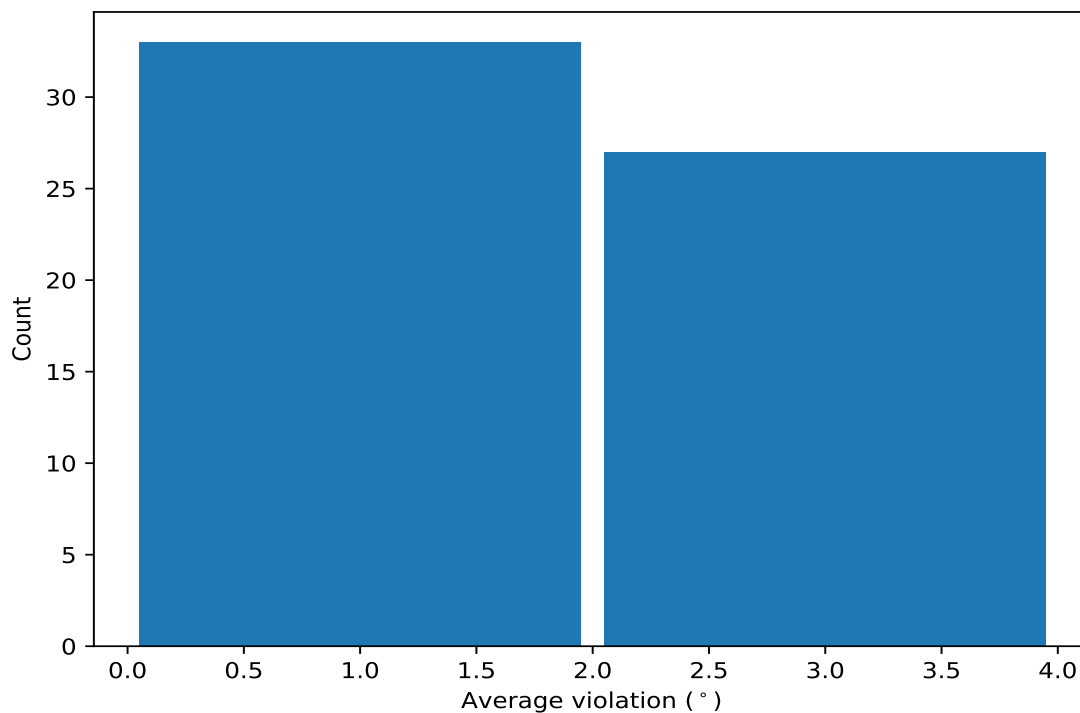


## 10.4 Most violated dihedral-angle restraints in the ensemble [i](#)

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

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

in the ensemble



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

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

Key	Atom-1	Atom-2	Atom-3	Atom-4	Models <sup>1</sup>	Mean	SD <sup>2</sup>	Median
(1,252)	1:185:A:GLU:C	1:186:A:LYS:N	1:186:A:LYS:CA	1:186:A:LYS:C	19	2.59	0.54	2.76
(1,240)	1:179:A:LEU:C	1:180:A:SER:N	1:180:A:SER:CA	1:180:A:SER:C	19	2.53	0.85	2.46
(1,6)	1:5:A:ALA:C	1:6:A:ILE:N	1:6:A:ILE:CA	1:6:A:ILE:C	17	2.59	0.84	2.75
(1,201)	1:146:A:GLY:C	1:147:A:TYR:N	1:147:A:TYR:CA	1:147:A:TYR:C	17	2.37	0.98	2.23
(1,239)	1:173:A:THR:C	1:174:A:GLU:N	1:174:A:GLU:CA	1:174:A:GLU:C	14	3.23	1.85	2.88
(1,183)	1:131:A:SER:C	1:132:A:VAL:N	1:132:A:VAL:CA	1:132:A:VAL:C	14	2.41	1.5	1.69
(1,40)	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	1:28:A:LYS:N	14	2.17	0.56	2.22
(1,207)	1:152:A:GLY:C	1:153:A:PHE:N	1:153:A:PHE:CA	1:153:A:PHE:C	13	1.85	0.53	1.72
(1,45)	1:31:A:LYS:N	1:31:A:LYS:CA	1:31:A:LYS:C	1:32:A:LYS:N	10	2.19	0.9	2.14
(1,219)	1:160:A:GLU:N	1:160:A:GLU:CA	1:160:A:GLU:C	1:161:A:ASN:N	9	2.63	1.14	2.4
(1,137)	1:101:A:PHE:N	1:101:A:PHE:CA	1:101:A:PHE:C	1:102:A:ALA:N	8	2.74	0.85	2.58
(1,4)	1:4:A:LYS:C	1:5:A:ALA:N	1:5:A:ALA:CA	1:5:A:ALA:C	8	2.51	0.58	2.7
(1,94)	1:66:A:TYR:N	1:66:A:TYR:CA	1:66:A:TYR:C	1:67:A:GLN:N	8	2.26	0.78	2.02
(1,106)	1:77:A:SER:C	1:78:A:LEU:N	1:78:A:LEU:CA	1:78:A:LEU:C	8	1.89	0.58	1.66
(1,246)	1:182:A:SER:C	1:183:A:ILE:N	1:183:A:ILE:CA	1:183:A:ILE:C	8	1.62	0.29	1.52
(1,54)	1:37:A:SER:C	1:38:A:LYS:N	1:38:A:LYS:CA	1:38:A:LYS:C	7	2.46	0.65	2.41
(1,132)	1:97:A:ILE:C	1:98:A:THR:N	1:98:A:THR:CA	1:98:A:THR:C	7	2.34	0.9	2.55
(1,27)	1:16:A:GLY:C	1:17:A:TYR:N	1:17:A:TYR:CA	1:17:A:TYR:C	7	1.95	0.72	2.1
(1,148)	1:110:A:ASP:C	1:111:A:PHE:N	1:111:A:PHE:CA	1:111:A:PHE:C	6	2.55	1.35	2.22
(1,169)	1:123:A:ASN:C	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	6	1.96	0.61	1.96

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Models <sup>1</sup>	Mean	SD <sup>2</sup>	Median
(1,206)	1:151:A:CYS:N	1:151:A:CYS:CA	1:151:A:CYS:C	1:152:A:GLY:N	6	1.91	0.81	1.68
(1,68)	1:51:A:GLU:N	1:51:A:GLU:CA	1:51:A:GLU:C	1:52:A:GLY:N	6	1.84	0.78	1.64
(1,130)	1:96:A:THR:C	1:97:A:ILE:N	1:97:A:ILE:CA	1:97:A:ILE:C	6	1.56	0.29	1.46
(1,302)	1:81:A:TYR:N	1:81:A:TYR:CA	1:81:A:TYR:C	1:82:A:ASN:N	5	2.36	0.65	2.19
(1,93)	1:65:A:LEU:N	1:65:A:LEU:CA	1:65:A:LEU:C	1:66:A:TYR:N	5	2.1	1.02	1.71
(1,95)	1:68:A:THR:N	1:68:A:THR:CA	1:68:A:THR:C	1:69:A:GLY:N	5	1.64	0.25	1.76
(1,196)	1:143:A:TYR:N	1:143:A:TYR:CA	1:143:A:TYR:C	1:144:A:ILE:N	5	1.4	0.33	1.25
(1,204)	1:149:A:HIS:N	1:149:A:HIS:CA	1:149:A:HIS:C	1:150:A:PRO:N	4	2.86	1.23	2.68
(1,101)	1:72:A:ILE:N	1:72:A:ILE:CA	1:72:A:ILE:C	1:73:A:THR:N	4	2.58	1.74	1.96
(1,42)	1:28:A:LYS:C	1:29:A:THR:N	1:29:A:THR:CA	1:29:A:THR:C	4	2.06	0.6	1.95
(1,32)	1:19:A:ARG:N	1:19:A:ARG:CA	1:19:A:ARG:C	1:20:A:ASP:N	4	2.0	1.11	1.54
(1,262)	1:190:A:SER:C	1:191:A:ASN:N	1:191:A:ASN:CA	1:191:A:ASN:C	4	1.72	0.56	1.63
(1,251)	1:185:A:GLU:N	1:185:A:GLU:CA	1:185:A:GLU:C	1:186:A:LYS:N	4	1.66	0.21	1.58
(1,34)	1:21:A:THR:N	1:21:A:THR:CA	1:21:A:THR:C	1:22:A:SER:N	4	1.61	0.81	1.17
(1,43)	1:29:A:THR:N	1:29:A:THR:CA	1:29:A:THR:C	1:30:A:SER:N	4	1.42	0.24	1.33
(1,298)	1:214:A:PHE:N	1:214:A:PHE:CA	1:214:A:PHE:C	1:215:A:HIS:N	3	2.76	0.85	3.2
(1,199)	1:145:A:ARG:N	1:145:A:ARG:CA	1:145:A:ARG:C	1:146:A:GLY:N	3	2.15	0.62	2.56
(1,189)	1:137:A:TYR:C	1:138:A:PRO:N	1:138:A:PRO:CA	1:138:A:PRO:C	3	1.86	0.9	1.35
(1,149)	1:111:A:PHE:N	1:111:A:PHE:CA	1:111:A:PHE:C	1:112:A:ILE:N	3	1.63	0.65	1.26
(1,277)	1:198:A:ASN:C	1:199:A:ALA:N	1:199:A:ALA:CA	1:199:A:ALA:C	3	1.54	0.52	1.32
(1,160)	1:117:A:ILE:N	1:117:A:ILE:CA	1:117:A:ILE:C	1:118:A:LYS:N	3	1.49	0.31	1.46
(1,55)	1:41:A:ARG:N	1:41:A:ARG:CA	1:41:A:ARG:C	1:42:A:LYS:N	3	1.43	0.26	1.51
(1,77)	1:56:A:GLU:C	1:57:A:SER:N	1:57:A:SER:CA	1:57:A:SER:C	3	1.42	0.25	1.41
(1,301)	1:80:A:VAL:C	1:81:A:TYR:N	1:81:A:TYR:CA	1:81:A:TYR:C	3	1.3	0.13	1.31
(1,292)	1:207:A:ARG:C	1:208:A:THR:N	1:208:A:THR:CA	1:208:A:THR:C	3	1.28	0.09	1.26
(1,261)	1:190:A:SER:N	1:190:A:SER:CA	1:190:A:SER:C	1:191:A:ASN:N	3	1.16	0.14	1.14
(1,245)	1:182:A:SER:N	1:182:A:SER:CA	1:182:A:SER:C	1:183:A:ILE:N	3	1.14	0.02	1.14
(1,136)	1:100:A:SER:C	1:101:A:PHE:N	1:101:A:PHE:CA	1:101:A:PHE:C	2	2.97	0.4	2.97
(1,66)	1:50:A:VAL:N	1:50:A:VAL:CA	1:50:A:VAL:C	1:51:A:GLU:N	2	2.67	1.0	2.67
(1,238)	1:173:A:THR:N	1:173:A:THR:CA	1:173:A:THR:C	1:174:A:GLU:N	2	2.5	0.75	2.5
(1,96)	1:69:A:GLY:N	1:69:A:GLY:CA	1:69:A:GLY:C	1:70:A:ASP:N	2	2.48	1.34	2.48
(1,276)	1:197:A:LEU:C	1:198:A:ASN:N	1:198:A:ASN:CA	1:198:A:ASN:C	2	1.89	0.09	1.89
(1,47)	1:33:A:ILE:N	1:33:A:ILE:CA	1:33:A:ILE:C	1:34:A:THR:N	2	1.87	0.43	1.87
(1,88)	1:62:A:SER:C	1:63:A:ASP:N	1:63:A:ASP:CA	1:63:A:ASP:C	2	1.86	0.5	1.86
(1,12)	1:8:A:GLN:C	1:9:A:GLN:N	1:9:A:GLN:CA	1:9:A:GLN:C	2	1.74	0.73	1.74
(1,145)	1:109:A:ARG:N	1:109:A:ARG:CA	1:109:A:ARG:C	1:110:A:ASP:N	2	1.6	0.4	1.6
(1,159)	1:116:A:TYR:C	1:117:A:ILE:N	1:117:A:ILE:CA	1:117:A:ILE:C	2	1.54	0.21	1.54
(1,97)	1:70:A:ASP:N	1:70:A:ASP:CA	1:70:A:ASP:C	1:71:A:ARG:N	2	1.46	0.01	1.46
(1,161)	1:117:A:ILE:C	1:118:A:LYS:N	1:118:A:LYS:CA	1:118:A:LYS:C	2	1.46	0.12	1.46
(1,165)	1:119:A:ARG:C	1:120:A:TYR:N	1:120:A:TYR:CA	1:120:A:TYR:C	2	1.27	0.14	1.27

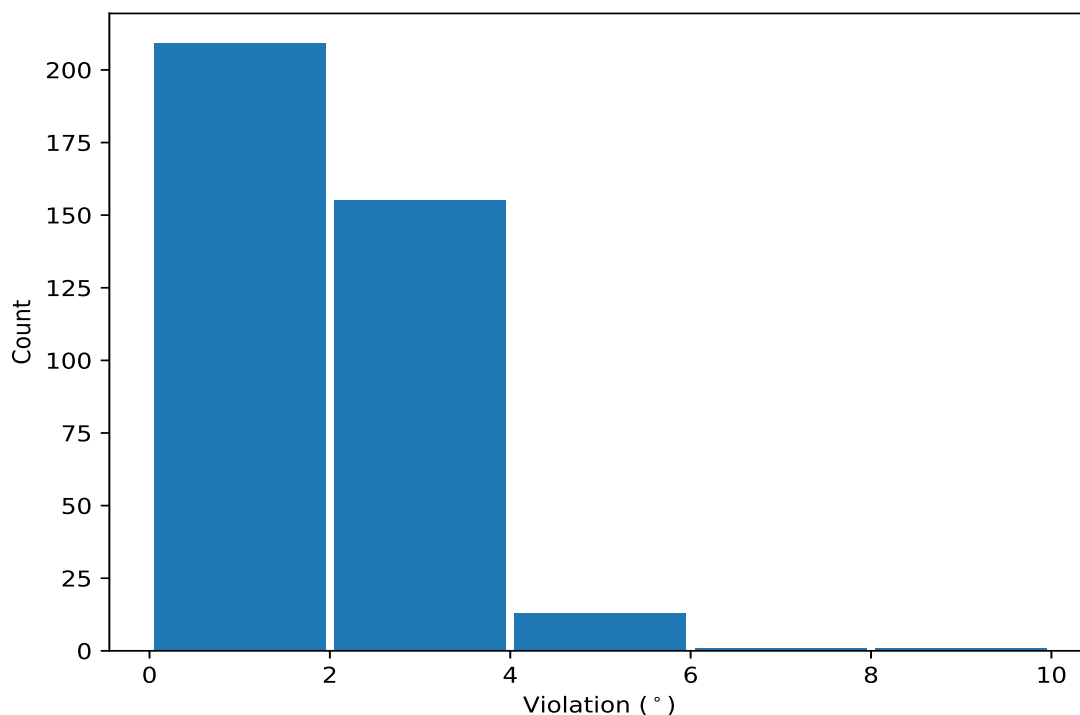
<sup>1</sup> Number of violated models, <sup>2</sup>Standard deviation, All angle values are in degree (°)

## 10.5 All violated dihedral-angle restraints

### 10.5.1 Histogram : Distribution of violations

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





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

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

Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,239)	1:173:A:THR:C	1:174:A:GLU:N	1:174:A:GLU:CA	1:174:A:GLU:C	14	8.36
(1,183)	1:131:A:SER:C	1:132:A:VAL:N	1:132:A:VAL:CA	1:132:A:VAL:C	18	6.36
(1,239)	1:173:A:THR:C	1:174:A:GLU:N	1:174:A:GLU:CA	1:174:A:GLU:C	2	5.42
(1,101)	1:72:A:ILE:N	1:72:A:ILE:CA	1:72:A:ILE:C	1:73:A:THR:N	11	5.34
(1,148)	1:110:A:ASP:C	1:111:A:PHE:N	1:111:A:PHE:CA	1:111:A:PHE:C	4	5.09
(1,183)	1:131:A:SER:C	1:132:A:VAL:N	1:132:A:VAL:CA	1:132:A:VAL:C	12	4.56
(1,204)	1:149:A:HIS:N	1:149:A:HIS:CA	1:149:A:HIS:C	1:150:A:PRO:N	12	4.54
(1,201)	1:146:A:GLY:C	1:147:A:TYR:N	1:147:A:TYR:CA	1:147:A:TYR:C	1	4.54
(1,219)	1:160:A:GLU:N	1:160:A:GLU:CA	1:160:A:GLU:C	1:161:A:ASN:N	12	4.35
(1,45)	1:31:A:LYS:N	1:31:A:LYS:CA	1:31:A:LYS:C	1:32:A:LYS:N	12	4.3
(1,6)	1:5:A:ALA:C	1:6:A:ILE:N	1:6:A:ILE:CA	1:6:A:ILE:C	7	4.2
(1,219)	1:160:A:GLU:N	1:160:A:GLU:CA	1:160:A:GLU:C	1:161:A:ASN:N	14	4.19
(1,239)	1:173:A:THR:C	1:174:A:GLU:N	1:174:A:GLU:CA	1:174:A:GLU:C	20	4.14
(1,93)	1:65:A:LEU:N	1:65:A:LEU:CA	1:65:A:LEU:C	1:66:A:TYR:N	13	4.11
(1,240)	1:179:A:LEU:C	1:180:A:SER:N	1:180:A:SER:CA	1:180:A:SER:C	1	4.09
(1,240)	1:179:A:LEU:C	1:180:A:SER:N	1:180:A:SER:CA	1:180:A:SER:C	18	3.99
(1,201)	1:146:A:GLY:C	1:147:A:TYR:N	1:147:A:TYR:CA	1:147:A:TYR:C	19	3.96
(1,137)	1:101:A:PHE:N	1:101:A:PHE:CA	1:101:A:PHE:C	1:102:A:ALA:N	6	3.91
(1,32)	1:19:A:ARG:N	1:19:A:ARG:CA	1:19:A:ARG:C	1:20:A:ASP:N	17	3.89
(1,137)	1:101:A:PHE:N	1:101:A:PHE:CA	1:101:A:PHE:C	1:102:A:ALA:N	9	3.88
(1,183)	1:131:A:SER:C	1:132:A:VAL:N	1:132:A:VAL:CA	1:132:A:VAL:C	13	3.85

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,240)	1:179:A:LEU:C	1:180:A:SER:N	1:180:A:SER:CA	1:180:A:SER:C	7	3.83
(1,239)	1:173:A:THR:C	1:174:A:GLU:N	1:174:A:GLU:CA	1:174:A:GLU:C	19	3.83
(1,96)	1:69:A:GLY:N	1:69:A:GLY:CA	1:69:A:GLY:C	1:70:A:ASP:N	19	3.82
(1,239)	1:173:A:THR:C	1:174:A:GLU:N	1:174:A:GLU:CA	1:174:A:GLU:C	7	3.81
(1,6)	1:5:A:ALA:C	1:6:A:ILE:N	1:6:A:ILE:CA	1:6:A:ILE:C	17	3.8
(1,206)	1:151:A:CYS:N	1:151:A:CYS:CA	1:151:A:CYS:C	1:152:A:GLY:N	19	3.67
(1,94)	1:66:A:TYR:N	1:66:A:TYR:CA	1:66:A:TYR:C	1:67:A:GLN:N	8	3.67
(1,66)	1:50:A:VAL:N	1:50:A:VAL:CA	1:50:A:VAL:C	1:51:A:GLU:N	20	3.67
(1,240)	1:179:A:LEU:C	1:180:A:SER:N	1:180:A:SER:CA	1:180:A:SER:C	17	3.59
(1,132)	1:97:A:ILE:C	1:98:A:THR:N	1:98:A:THR:CA	1:98:A:THR:C	6	3.58
(1,219)	1:160:A:GLU:N	1:160:A:GLU:CA	1:160:A:GLU:C	1:161:A:ASN:N	2	3.56
(1,183)	1:131:A:SER:C	1:132:A:VAL:N	1:132:A:VAL:CA	1:132:A:VAL:C	4	3.54
(1,298)	1:214:A:PHE:N	1:214:A:PHE:CA	1:214:A:PHE:C	1:215:A:HIS:N	18	3.51
(1,204)	1:149:A:HIS:N	1:149:A:HIS:CA	1:149:A:HIS:C	1:150:A:PRO:N	19	3.51
(1,6)	1:5:A:ALA:C	1:6:A:ILE:N	1:6:A:ILE:CA	1:6:A:ILE:C	11	3.49
(1,68)	1:51:A:GLU:N	1:51:A:GLU:CA	1:51:A:GLU:C	1:52:A:GLY:N	20	3.44
(1,136)	1:100:A:SER:C	1:101:A:PHE:N	1:101:A:PHE:CA	1:101:A:PHE:C	15	3.38
(1,252)	1:185:A:GLU:C	1:186:A:LYS:N	1:186:A:LYS:CA	1:186:A:LYS:C	6	3.37
(1,137)	1:101:A:PHE:N	1:101:A:PHE:CA	1:101:A:PHE:C	1:102:A:ALA:N	20	3.37
(1,239)	1:173:A:THR:C	1:174:A:GLU:N	1:174:A:GLU:CA	1:174:A:GLU:C	13	3.35
(1,132)	1:97:A:ILE:C	1:98:A:THR:N	1:98:A:THR:CA	1:98:A:THR:C	15	3.35
(1,302)	1:81:A:TYR:N	1:81:A:TYR:CA	1:81:A:TYR:C	1:82:A:ASN:N	17	3.34
(1,54)	1:37:A:SER:C	1:38:A:LYS:N	1:38:A:LYS:CA	1:38:A:LYS:C	1	3.33
(1,4)	1:4:A:LYS:C	1:5:A:ALA:N	1:5:A:ALA:CA	1:5:A:ALA:C	7	3.28
(1,201)	1:146:A:GLY:C	1:147:A:TYR:N	1:147:A:TYR:CA	1:147:A:TYR:C	8	3.27
(1,238)	1:173:A:THR:N	1:173:A:THR:CA	1:173:A:THR:C	1:174:A:GLU:N	2	3.26
(1,201)	1:146:A:GLY:C	1:147:A:TYR:N	1:147:A:TYR:CA	1:147:A:TYR:C	9	3.25
(1,54)	1:37:A:SER:C	1:38:A:LYS:N	1:38:A:LYS:CA	1:38:A:LYS:C	15	3.25
(1,252)	1:185:A:GLU:C	1:186:A:LYS:N	1:186:A:LYS:CA	1:186:A:LYS:C	13	3.22
(1,298)	1:214:A:PHE:N	1:214:A:PHE:CA	1:214:A:PHE:C	1:215:A:HIS:N	19	3.2
(1,148)	1:110:A:ASP:C	1:111:A:PHE:N	1:111:A:PHE:CA	1:111:A:PHE:C	2	3.19
(1,6)	1:5:A:ALA:C	1:6:A:ILE:N	1:6:A:ILE:CA	1:6:A:ILE:C	19	3.19
(1,239)	1:173:A:THR:C	1:174:A:GLU:N	1:174:A:GLU:CA	1:174:A:GLU:C	9	3.14
(1,252)	1:185:A:GLU:C	1:186:A:LYS:N	1:186:A:LYS:CA	1:186:A:LYS:C	11	3.13
(1,189)	1:137:A:TYR:C	1:138:A:PRO:N	1:138:A:PRO:CA	1:138:A:PRO:C	2	3.12
(1,94)	1:66:A:TYR:N	1:66:A:TYR:CA	1:66:A:TYR:C	1:67:A:GLN:N	20	3.1
(1,40)	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	1:28:A:LYS:N	12	3.1
(1,252)	1:185:A:GLU:C	1:186:A:LYS:N	1:186:A:LYS:CA	1:186:A:LYS:C	20	3.08
(1,169)	1:123:A:ASN:C	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	3	3.08
(1,207)	1:152:A:GLY:C	1:153:A:PHE:N	1:153:A:PHE:CA	1:153:A:PHE:C	3	3.06
(1,106)	1:77:A:SER:C	1:78:A:LEU:N	1:78:A:LEU:CA	1:78:A:LEU:C	6	3.06
(1,252)	1:185:A:GLU:C	1:186:A:LYS:N	1:186:A:LYS:CA	1:186:A:LYS:C	5	3.05
(1,27)	1:16:A:GLY:C	1:17:A:TYR:N	1:17:A:TYR:CA	1:17:A:TYR:C	7	3.05
(1,252)	1:185:A:GLU:C	1:186:A:LYS:N	1:186:A:LYS:CA	1:186:A:LYS:C	3	3.04
(1,252)	1:185:A:GLU:C	1:186:A:LYS:N	1:186:A:LYS:CA	1:186:A:LYS:C	10	3.01
(1,34)	1:21:A:THR:N	1:21:A:THR:CA	1:21:A:THR:C	1:22:A:SER:N	2	3.01
(1,252)	1:185:A:GLU:C	1:186:A:LYS:N	1:186:A:LYS:CA	1:186:A:LYS:C	16	3.0
(1,42)	1:28:A:LYS:C	1:29:A:THR:N	1:29:A:THR:CA	1:29:A:THR:C	14	3.0
(1,6)	1:5:A:ALA:C	1:6:A:ILE:N	1:6:A:ILE:CA	1:6:A:ILE:C	18	3.0
(1,6)	1:5:A:ALA:C	1:6:A:ILE:N	1:6:A:ILE:CA	1:6:A:ILE:C	10	2.98
(1,201)	1:146:A:GLY:C	1:147:A:TYR:N	1:147:A:TYR:CA	1:147:A:TYR:C	3	2.96

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,4)	1:4:A:LYS:C	1:5:A:ALA:N	1:5:A:ALA:CA	1:5:A:ALA:C	6	2.96
(1,6)	1:5:A:ALA:C	1:6:A:ILE:N	1:6:A:ILE:CA	1:6:A:ILE:C	1	2.95
(1,40)	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	1:28:A:LYS:N	16	2.87
(1,4)	1:4:A:LYS:C	1:5:A:ALA:N	1:5:A:ALA:CA	1:5:A:ALA:C	17	2.87
(1,252)	1:185:A:GLU:C	1:186:A:LYS:N	1:186:A:LYS:CA	1:186:A:LYS:C	9	2.85
(1,33)	1:20:A:ASP:C	1:21:A:THR:N	1:21:A:THR:CA	1:21:A:THR:C	2	2.85
(1,45)	1:31:A:LYS:N	1:31:A:LYS:CA	1:31:A:LYS:C	1:32:A:LYS:N	13	2.84
(1,54)	1:37:A:SER:C	1:38:A:LYS:N	1:38:A:LYS:CA	1:38:A:LYS:C	10	2.83
(1,101)	1:72:A:ILE:N	1:72:A:ILE:CA	1:72:A:ILE:C	1:73:A:THR:N	2	2.82
(1,240)	1:179:A:LEU:C	1:180:A:SER:N	1:180:A:SER:CA	1:180:A:SER:C	16	2.81
(1,40)	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	1:28:A:LYS:N	20	2.81
(1,240)	1:179:A:LEU:C	1:180:A:SER:N	1:180:A:SER:CA	1:180:A:SER:C	12	2.8
(1,302)	1:81:A:TYR:N	1:81:A:TYR:CA	1:81:A:TYR:C	1:82:A:ASN:N	16	2.79
(1,44)	1:29:A:THR:C	1:30:A:SER:N	1:30:A:SER:CA	1:30:A:SER:C	4	2.78
(1,240)	1:179:A:LEU:C	1:180:A:SER:N	1:180:A:SER:CA	1:180:A:SER:C	5	2.77
(1,252)	1:185:A:GLU:C	1:186:A:LYS:N	1:186:A:LYS:CA	1:186:A:LYS:C	1	2.76
(1,148)	1:110:A:ASP:C	1:111:A:PHE:N	1:111:A:PHE:CA	1:111:A:PHE:C	8	2.76
(1,132)	1:97:A:ILE:C	1:98:A:THR:N	1:98:A:THR:CA	1:98:A:THR:C	20	2.75
(1,6)	1:5:A:ALA:C	1:6:A:ILE:N	1:6:A:ILE:CA	1:6:A:ILE:C	5	2.75
(1,6)	1:5:A:ALA:C	1:6:A:ILE:N	1:6:A:ILE:CA	1:6:A:ILE:C	8	2.75
(1,4)	1:4:A:LYS:C	1:5:A:ALA:N	1:5:A:ALA:CA	1:5:A:ALA:C	16	2.74
(1,137)	1:101:A:PHE:N	1:101:A:PHE:CA	1:101:A:PHE:C	1:102:A:ALA:N	7	2.73
(1,219)	1:160:A:GLU:N	1:160:A:GLU:CA	1:160:A:GLU:C	1:161:A:ASN:N	7	2.71
(1,201)	1:146:A:GLY:C	1:147:A:TYR:N	1:147:A:TYR:CA	1:147:A:TYR:C	11	2.71
(1,240)	1:179:A:LEU:C	1:180:A:SER:N	1:180:A:SER:CA	1:180:A:SER:C	3	2.7
(1,201)	1:146:A:GLY:C	1:147:A:TYR:N	1:147:A:TYR:CA	1:147:A:TYR:C	6	2.69
(1,94)	1:66:A:TYR:N	1:66:A:TYR:CA	1:66:A:TYR:C	1:67:A:GLN:N	9	2.69
(1,240)	1:179:A:LEU:C	1:180:A:SER:N	1:180:A:SER:CA	1:180:A:SER:C	10	2.67
(1,207)	1:152:A:GLY:C	1:153:A:PHE:N	1:153:A:PHE:CA	1:153:A:PHE:C	4	2.66
(1,4)	1:4:A:LYS:C	1:5:A:ALA:N	1:5:A:ALA:CA	1:5:A:ALA:C	18	2.66
(1,31)	1:18:A:ASN:C	1:19:A:ARG:N	1:19:A:ARG:CA	1:19:A:ARG:C	20	2.64
(1,239)	1:173:A:THR:C	1:174:A:GLU:N	1:174:A:GLU:CA	1:174:A:GLU:C	8	2.62
(1,199)	1:145:A:ARG:N	1:145:A:ARG:CA	1:145:A:ARG:C	1:146:A:GLY:N	19	2.62
(1,136)	1:100:A:SER:C	1:101:A:PHE:N	1:101:A:PHE:CA	1:101:A:PHE:C	18	2.57
(1,262)	1:190:A:SER:C	1:191:A:ASN:N	1:191:A:ASN:CA	1:191:A:ASN:C	5	2.56
(1,199)	1:145:A:ARG:N	1:145:A:ARG:CA	1:145:A:ARG:C	1:146:A:GLY:N	3	2.56
(1,40)	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	1:28:A:LYS:N	9	2.56
(1,40)	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	1:28:A:LYS:N	13	2.56
(1,149)	1:111:A:PHE:N	1:111:A:PHE:CA	1:111:A:PHE:C	1:112:A:ILE:N	11	2.55
(1,132)	1:97:A:ILE:C	1:98:A:THR:N	1:98:A:THR:CA	1:98:A:THR:C	1	2.55
(1,27)	1:16:A:GLY:C	1:17:A:TYR:N	1:17:A:TYR:CA	1:17:A:TYR:C	20	2.55
(1,201)	1:146:A:GLY:C	1:147:A:TYR:N	1:147:A:TYR:CA	1:147:A:TYR:C	15	2.54
(1,252)	1:185:A:GLU:C	1:186:A:LYS:N	1:186:A:LYS:CA	1:186:A:LYS:C	4	2.53
(1,192)	1:139:A:PRO:C	1:140:A:SER:N	1:140:A:SER:CA	1:140:A:SER:C	19	2.53
(1,6)	1:5:A:ALA:C	1:6:A:ILE:N	1:6:A:ILE:CA	1:6:A:ILE:C	13	2.51
(1,239)	1:173:A:THR:C	1:174:A:GLU:N	1:174:A:GLU:CA	1:174:A:GLU:C	1	2.48
(1,45)	1:31:A:LYS:N	1:31:A:LYS:CA	1:31:A:LYS:C	1:32:A:LYS:N	1	2.48
(1,12)	1:8:A:GLN:C	1:9:A:GLN:N	1:9:A:GLN:CA	1:9:A:GLN:C	20	2.47
(1,252)	1:185:A:GLU:C	1:186:A:LYS:N	1:186:A:LYS:CA	1:186:A:LYS:C	17	2.46
(1,240)	1:179:A:LEU:C	1:180:A:SER:N	1:180:A:SER:CA	1:180:A:SER:C	20	2.46
(1,6)	1:5:A:ALA:C	1:6:A:ILE:N	1:6:A:ILE:CA	1:6:A:ILE:C	15	2.45

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,137)	1:101:A:PHE:N	1:101:A:PHE:CA	1:101:A:PHE:C	1:102:A:ALA:N	11	2.42
(1,137)	1:101:A:PHE:N	1:101:A:PHE:CA	1:101:A:PHE:C	1:102:A:ALA:N	14	2.42
(1,27)	1:16:A:GLY:C	1:17:A:TYR:N	1:17:A:TYR:CA	1:17:A:TYR:C	9	2.42
(1,54)	1:37:A:SER:C	1:38:A:LYS:N	1:38:A:LYS:CA	1:38:A:LYS:C	20	2.41
(1,219)	1:160:A:GLU:N	1:160:A:GLU:CA	1:160:A:GLU:C	1:161:A:ASN:N	19	2.4
(1,106)	1:77:A:SER:C	1:78:A:LEU:N	1:78:A:LEU:CA	1:78:A:LEU:C	5	2.39
(1,45)	1:31:A:LYS:N	1:31:A:LYS:CA	1:31:A:LYS:C	1:32:A:LYS:N	4	2.39
(1,105)	1:74:A:TRP:N	1:74:A:TRP:CA	1:74:A:TRP:C	1:75:A:ASP:N	18	2.38
(1,252)	1:185:A:GLU:C	1:186:A:LYS:N	1:186:A:LYS:CA	1:186:A:LYS:C	19	2.36
(1,88)	1:62:A:SER:C	1:63:A:ASP:N	1:63:A:ASP:CA	1:63:A:ASP:C	4	2.36
(1,40)	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	1:28:A:LYS:N	6	2.36
(1,207)	1:152:A:GLY:C	1:153:A:PHE:N	1:153:A:PHE:CA	1:153:A:PHE:C	13	2.35
(1,40)	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	1:28:A:LYS:N	7	2.34
(1,6)	1:5:A:ALA:C	1:6:A:ILE:N	1:6:A:ILE:CA	1:6:A:ILE:C	16	2.34
(1,239)	1:173:A:THR:C	1:174:A:GLU:N	1:174:A:GLU:CA	1:174:A:GLU:C	16	2.33
(1,80)	1:58:A:PRO:N	1:58:A:PRO:CA	1:58:A:PRO:C	1:59:A:ALA:N	17	2.32
(1,47)	1:33:A:ILE:N	1:33:A:ILE:CA	1:33:A:ILE:C	1:34:A:THR:N	8	2.3
(1,45)	1:31:A:LYS:N	1:31:A:LYS:CA	1:31:A:LYS:C	1:32:A:LYS:N	9	2.3
(1,219)	1:160:A:GLU:N	1:160:A:GLU:CA	1:160:A:GLU:C	1:161:A:ASN:N	8	2.28
(1,94)	1:66:A:TYR:N	1:66:A:TYR:CA	1:66:A:TYR:C	1:67:A:GLN:N	7	2.28
(1,4)	1:4:A:LYS:C	1:5:A:ALA:N	1:5:A:ALA:CA	1:5:A:ALA:C	15	2.27
(1,277)	1:198:A:ASN:C	1:199:A:ALA:N	1:199:A:ALA:CA	1:199:A:ALA:C	6	2.25
(1,106)	1:77:A:SER:C	1:78:A:LEU:N	1:78:A:LEU:CA	1:78:A:LEU:C	4	2.25
(1,201)	1:146:A:GLY:C	1:147:A:TYR:N	1:147:A:TYR:CA	1:147:A:TYR:C	17	2.23
(1,302)	1:81:A:TYR:N	1:81:A:TYR:CA	1:81:A:TYR:C	1:82:A:ASN:N	12	2.19
(1,240)	1:179:A:LEU:C	1:180:A:SER:N	1:180:A:SER:CA	1:180:A:SER:C	11	2.19
(1,169)	1:123:A:ASN:C	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	7	2.19
(1,240)	1:179:A:LEU:C	1:180:A:SER:N	1:180:A:SER:CA	1:180:A:SER:C	6	2.17
(1,240)	1:179:A:LEU:C	1:180:A:SER:N	1:180:A:SER:CA	1:180:A:SER:C	9	2.17
(1,201)	1:146:A:GLY:C	1:147:A:TYR:N	1:147:A:TYR:CA	1:147:A:TYR:C	5	2.15
(1,252)	1:185:A:GLU:C	1:186:A:LYS:N	1:186:A:LYS:CA	1:186:A:LYS:C	18	2.11
(1,246)	1:182:A:SER:C	1:183:A:ILE:N	1:183:A:ILE:CA	1:183:A:ILE:C	18	2.11
(1,281)	1:200:A:LYS:C	1:201:A:ASP:N	1:201:A:ASP:CA	1:201:A:ASP:C	18	2.1
(1,40)	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	1:28:A:LYS:N	15	2.1
(1,27)	1:16:A:GLY:C	1:17:A:TYR:N	1:17:A:TYR:CA	1:17:A:TYR:C	12	2.1
(1,138)	1:103:A:VAL:N	1:103:A:VAL:CA	1:103:A:VAL:C	1:104:A:GLY:N	1	2.09
(1,207)	1:152:A:GLY:C	1:153:A:PHE:N	1:153:A:PHE:CA	1:153:A:PHE:C	9	2.06
(1,302)	1:81:A:TYR:N	1:81:A:TYR:CA	1:81:A:TYR:C	1:82:A:ASN:N	2	2.05
(1,252)	1:185:A:GLU:C	1:186:A:LYS:N	1:186:A:LYS:CA	1:186:A:LYS:C	7	2.05
(1,240)	1:179:A:LEU:C	1:180:A:SER:N	1:180:A:SER:CA	1:180:A:SER:C	4	2.05
(1,240)	1:179:A:LEU:C	1:180:A:SER:N	1:180:A:SER:CA	1:180:A:SER:C	8	2.05
(1,40)	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	1:28:A:LYS:N	5	2.03
(1,251)	1:185:A:GLU:N	1:185:A:GLU:CA	1:185:A:GLU:C	1:186:A:LYS:N	7	2.02
(1,246)	1:182:A:SER:C	1:183:A:ILE:N	1:183:A:ILE:CA	1:183:A:ILE:C	2	2.01
(1,219)	1:160:A:GLU:N	1:160:A:GLU:CA	1:160:A:GLU:C	1:161:A:ASN:N	4	2.01
(1,42)	1:28:A:LYS:C	1:29:A:THR:N	1:29:A:THR:CA	1:29:A:THR:C	2	2.01
(1,145)	1:109:A:ARG:N	1:109:A:ARG:CA	1:109:A:ARG:C	1:110:A:ASP:N	15	2.0
(1,54)	1:37:A:SER:C	1:38:A:LYS:N	1:38:A:LYS:CA	1:38:A:LYS:C	7	1.99
(1,276)	1:197:A:LEU:C	1:198:A:ASN:N	1:198:A:ASN:CA	1:198:A:ASN:C	3	1.98
(1,169)	1:123:A:ASN:C	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	10	1.98
(1,45)	1:31:A:LYS:N	1:31:A:LYS:CA	1:31:A:LYS:C	1:32:A:LYS:N	19	1.98

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,252)	1:185:A:GLU:C	1:186:A:LYS:N	1:186:A:LYS:CA	1:186:A:LYS:C	15	1.96
(1,4)	1:4:A:LYS:C	1:5:A:ALA:N	1:5:A:ALA:CA	1:5:A:ALA:C	10	1.95
(1,130)	1:96:A:THR:C	1:97:A:ILE:N	1:97:A:ILE:CA	1:97:A:ILE:C	4	1.94
(1,130)	1:96:A:THR:C	1:97:A:ILE:N	1:97:A:ILE:CA	1:97:A:ILE:C	15	1.94
(1,169)	1:123:A:ASN:C	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	5	1.93
(1,95)	1:68:A:THR:N	1:68:A:THR:CA	1:68:A:THR:C	1:69:A:GLY:N	6	1.93
(1,68)	1:51:A:GLU:N	1:51:A:GLU:CA	1:51:A:GLU:C	1:52:A:GLY:N	13	1.93
(1,207)	1:152:A:GLY:C	1:153:A:PHE:N	1:153:A:PHE:CA	1:153:A:PHE:C	2	1.92
(1,68)	1:51:A:GLU:N	1:51:A:GLU:CA	1:51:A:GLU:C	1:52:A:GLY:N	3	1.9
(1,252)	1:185:A:GLU:C	1:186:A:LYS:N	1:186:A:LYS:CA	1:186:A:LYS:C	2	1.89
(1,42)	1:28:A:LYS:C	1:29:A:THR:N	1:29:A:THR:CA	1:29:A:THR:C	15	1.89
(1,196)	1:143:A:TYR:N	1:143:A:TYR:CA	1:143:A:TYR:C	1:144:A:ILE:N	18	1.88
(1,160)	1:117:A:ILE:N	1:117:A:ILE:CA	1:117:A:ILE:C	1:118:A:LYS:N	17	1.88
(1,45)	1:31:A:LYS:N	1:31:A:LYS:CA	1:31:A:LYS:C	1:32:A:LYS:N	16	1.87
(1,240)	1:179:A:LEU:C	1:180:A:SER:N	1:180:A:SER:CA	1:180:A:SER:C	13	1.86
(1,201)	1:146:A:GLY:C	1:147:A:TYR:N	1:147:A:TYR:CA	1:147:A:TYR:C	16	1.86
(1,93)	1:65:A:LEU:N	1:65:A:LEU:CA	1:65:A:LEU:C	1:66:A:TYR:N	4	1.86
(1,54)	1:37:A:SER:C	1:38:A:LYS:N	1:38:A:LYS:CA	1:38:A:LYS:C	18	1.86
(1,204)	1:149:A:HIS:N	1:149:A:HIS:CA	1:149:A:HIS:C	1:150:A:PRO:N	18	1.85
(1,252)	1:185:A:GLU:C	1:186:A:LYS:N	1:186:A:LYS:CA	1:186:A:LYS:C	14	1.84
(1,262)	1:190:A:SER:C	1:191:A:ASN:N	1:191:A:ASN:CA	1:191:A:ASN:C	3	1.83
(1,207)	1:152:A:GLY:C	1:153:A:PHE:N	1:153:A:PHE:CA	1:153:A:PHE:C	6	1.83
(1,183)	1:131:A:SER:C	1:132:A:VAL:N	1:132:A:VAL:CA	1:132:A:VAL:C	17	1.83
(1,260)	1:189:A:PRO:C	1:190:A:SER:N	1:190:A:SER:CA	1:190:A:SER:C	4	1.82
(1,43)	1:29:A:THR:N	1:29:A:THR:CA	1:29:A:THR:C	1:30:A:SER:N	8	1.82
(1,6)	1:5:A:ALA:C	1:6:A:ILE:N	1:6:A:ILE:CA	1:6:A:ILE:C	2	1.82
(1,201)	1:146:A:GLY:C	1:147:A:TYR:N	1:147:A:TYR:CA	1:147:A:TYR:C	18	1.81
(1,276)	1:197:A:LEU:C	1:198:A:ASN:N	1:198:A:ASN:CA	1:198:A:ASN:C	17	1.8
(1,206)	1:151:A:CYS:N	1:151:A:CYS:CA	1:151:A:CYS:C	1:152:A:GLY:N	12	1.8
(1,95)	1:68:A:THR:N	1:68:A:THR:CA	1:68:A:THR:C	1:69:A:GLY:N	10	1.79
(1,246)	1:182:A:SER:C	1:183:A:ILE:N	1:183:A:ILE:CA	1:183:A:ILE:C	6	1.78
(1,239)	1:173:A:THR:C	1:174:A:GLU:N	1:174:A:GLU:CA	1:174:A:GLU:C	11	1.77
(1,94)	1:66:A:TYR:N	1:66:A:TYR:CA	1:66:A:TYR:C	1:67:A:GLN:N	18	1.77
(1,95)	1:68:A:THR:N	1:68:A:THR:CA	1:68:A:THR:C	1:69:A:GLY:N	7	1.76
(1,238)	1:173:A:THR:N	1:173:A:THR:CA	1:173:A:THR:C	1:174:A:GLU:N	18	1.75
(1,159)	1:116:A:TYR:C	1:117:A:ILE:N	1:117:A:ILE:CA	1:117:A:ILE:C	2	1.75
(1,3)	1:3:A:PHE:C	1:4:A:LYS:N	1:4:A:LYS:CA	1:4:A:LYS:C	17	1.75
(1,94)	1:66:A:TYR:N	1:66:A:TYR:CA	1:66:A:TYR:C	1:67:A:GLN:N	6	1.74
(1,40)	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	1:28:A:LYS:N	19	1.74
(1,294)	1:210:A:SER:C	1:211:A:ARG:N	1:211:A:ARG:CA	1:211:A:ARG:C	18	1.73
(1,77)	1:56:A:GLU:C	1:57:A:SER:N	1:57:A:SER:CA	1:57:A:SER:C	17	1.73
(1,207)	1:152:A:GLY:C	1:153:A:PHE:N	1:153:A:PHE:CA	1:153:A:PHE:C	15	1.72
(1,137)	1:101:A:PHE:N	1:101:A:PHE:CA	1:101:A:PHE:C	1:102:A:ALA:N	19	1.72
(1,132)	1:97:A:ILE:C	1:98:A:THR:N	1:98:A:THR:CA	1:98:A:THR:C	5	1.72
(1,93)	1:65:A:LEU:N	1:65:A:LEU:CA	1:65:A:LEU:C	1:66:A:TYR:N	19	1.71
(1,236)	1:171:A:VAL:N	1:171:A:VAL:CA	1:171:A:VAL:C	1:172:A:GLN:N	3	1.7
(1,196)	1:143:A:TYR:N	1:143:A:TYR:CA	1:143:A:TYR:C	1:144:A:ILE:N	20	1.7
(1,183)	1:131:A:SER:C	1:132:A:VAL:N	1:132:A:VAL:CA	1:132:A:VAL:C	3	1.7
(1,183)	1:131:A:SER:C	1:132:A:VAL:N	1:132:A:VAL:CA	1:132:A:VAL:C	14	1.7
(1,55)	1:41:A:ARG:N	1:41:A:ARG:CA	1:41:A:ARG:C	1:42:A:LYS:N	14	1.7
(1,206)	1:151:A:CYS:N	1:151:A:CYS:CA	1:151:A:CYS:C	1:152:A:GLY:N	11	1.69

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,183)	1:131:A:SER:C	1:132:A:VAL:N	1:132:A:VAL:CA	1:132:A:VAL:C	5	1.69
(1,106)	1:77:A:SER:C	1:78:A:LEU:N	1:78:A:LEU:CA	1:78:A:LEU:C	10	1.69
(1,40)	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	1:28:A:LYS:N	11	1.69
(1,148)	1:110:A:ASP:C	1:111:A:PHE:N	1:111:A:PHE:CA	1:111:A:PHE:C	6	1.68
(1,206)	1:151:A:CYS:N	1:151:A:CYS:CA	1:151:A:CYS:C	1:152:A:GLY:N	1	1.67
(1,183)	1:131:A:SER:C	1:132:A:VAL:N	1:132:A:VAL:CA	1:132:A:VAL:C	7	1.67
(1,66)	1:50:A:VAL:N	1:50:A:VAL:CA	1:50:A:VAL:C	1:51:A:GLU:N	7	1.67
(1,40)	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	1:28:A:LYS:N	1	1.66
(1,239)	1:173:A:THR:C	1:174:A:GLU:N	1:174:A:GLU:CA	1:174:A:GLU:C	12	1.65
(1,201)	1:146:A:GLY:C	1:147:A:TYR:N	1:147:A:TYR:CA	1:147:A:TYR:C	7	1.65
(1,251)	1:185:A:GLU:N	1:185:A:GLU:CA	1:185:A:GLU:C	1:186:A:LYS:N	12	1.64
(1,106)	1:77:A:SER:C	1:78:A:LEU:N	1:78:A:LEU:CA	1:78:A:LEU:C	12	1.64
(1,56)	1:43:A:PHE:C	1:44:A:HIS:N	1:44:A:HIS:CA	1:44:A:HIS:C	13	1.62
(1,207)	1:152:A:GLY:C	1:153:A:PHE:N	1:153:A:PHE:CA	1:153:A:PHE:C	20	1.59
(1,45)	1:31:A:LYS:N	1:31:A:LYS:CA	1:31:A:LYS:C	1:32:A:LYS:N	10	1.59
(1,298)	1:214:A:PHE:N	1:214:A:PHE:CA	1:214:A:PHE:C	1:215:A:HIS:N	8	1.58
(1,183)	1:131:A:SER:C	1:132:A:VAL:N	1:132:A:VAL:CA	1:132:A:VAL:C	6	1.58
(1,161)	1:117:A:ILE:C	1:118:A:LYS:N	1:118:A:LYS:CA	1:118:A:LYS:C	12	1.58
(1,32)	1:19:A:ARG:N	1:19:A:ARG:CA	1:19:A:ARG:C	1:20:A:ASP:N	5	1.58
(1,207)	1:152:A:GLY:C	1:153:A:PHE:N	1:153:A:PHE:CA	1:153:A:PHE:C	1	1.57
(1,6)	1:5:A:ALA:C	1:6:A:ILE:N	1:6:A:ILE:CA	1:6:A:ILE:C	6	1.57
(1,246)	1:182:A:SER:C	1:183:A:ILE:N	1:183:A:ILE:CA	1:183:A:ILE:C	3	1.56
(1,93)	1:65:A:LEU:N	1:65:A:LEU:CA	1:65:A:LEU:C	1:66:A:TYR:N	6	1.55
(1,94)	1:66:A:TYR:N	1:66:A:TYR:CA	1:66:A:TYR:C	1:67:A:GLN:N	4	1.53
(1,204)	1:149:A:HIS:N	1:149:A:HIS:CA	1:149:A:HIS:C	1:150:A:PRO:N	3	1.52
(1,106)	1:77:A:SER:C	1:78:A:LEU:N	1:78:A:LEU:CA	1:78:A:LEU:C	1	1.52
(1,54)	1:37:A:SER:C	1:38:A:LYS:N	1:38:A:LYS:CA	1:38:A:LYS:C	6	1.52
(1,6)	1:5:A:ALA:C	1:6:A:ILE:N	1:6:A:ILE:CA	1:6:A:ILE:C	14	1.52
(1,252)	1:185:A:GLU:C	1:186:A:LYS:N	1:186:A:LYS:CA	1:186:A:LYS:C	8	1.51
(1,251)	1:185:A:GLU:N	1:185:A:GLU:CA	1:185:A:GLU:C	1:186:A:LYS:N	18	1.51
(1,137)	1:101:A:PHE:N	1:101:A:PHE:CA	1:101:A:PHE:C	1:102:A:ALA:N	13	1.51
(1,55)	1:41:A:ARG:N	1:41:A:ARG:CA	1:41:A:ARG:C	1:42:A:LYS:N	17	1.51
(1,32)	1:19:A:ARG:N	1:19:A:ARG:CA	1:19:A:ARG:C	1:20:A:ASP:N	18	1.51
(1,95)	1:68:A:THR:N	1:68:A:THR:CA	1:68:A:THR:C	1:69:A:GLY:N	11	1.5
(1,251)	1:185:A:GLU:N	1:185:A:GLU:CA	1:185:A:GLU:C	1:186:A:LYS:N	15	1.49
(1,183)	1:131:A:SER:C	1:132:A:VAL:N	1:132:A:VAL:CA	1:132:A:VAL:C	19	1.49
(1,148)	1:110:A:ASP:C	1:111:A:PHE:N	1:111:A:PHE:CA	1:111:A:PHE:C	17	1.49
(1,28)	1:17:A:TYR:N	1:17:A:TYR:CA	1:17:A:TYR:C	1:18:A:ASN:N	20	1.49
(1,246)	1:182:A:SER:C	1:183:A:ILE:N	1:183:A:ILE:CA	1:183:A:ILE:C	15	1.48
(1,172)	1:125:A:ASN:C	1:126:A:ILE:N	1:126:A:ILE:CA	1:126:A:ILE:C	20	1.48
(1,130)	1:96:A:THR:C	1:97:A:ILE:N	1:97:A:ILE:CA	1:97:A:ILE:C	18	1.48
(1,169)	1:123:A:ASN:C	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	16	1.47
(1,160)	1:117:A:ILE:N	1:117:A:ILE:CA	1:117:A:ILE:C	1:118:A:LYS:N	14	1.46
(1,97)	1:70:A:ASP:N	1:70:A:ASP:CA	1:70:A:ASP:C	1:71:A:ARG:N	12	1.46
(1,6)	1:5:A:ALA:C	1:6:A:ILE:N	1:6:A:ILE:CA	1:6:A:ILE:C	12	1.46
(1,301)	1:80:A:VAL:C	1:81:A:TYR:N	1:81:A:TYR:CA	1:81:A:TYR:C	13	1.45
(1,97)	1:70:A:ASP:N	1:70:A:ASP:CA	1:70:A:ASP:C	1:71:A:ARG:N	5	1.45
(1,130)	1:96:A:THR:C	1:97:A:ILE:N	1:97:A:ILE:CA	1:97:A:ILE:C	3	1.44
(1,47)	1:33:A:ILE:N	1:33:A:ILE:CA	1:33:A:ILE:C	1:34:A:THR:N	5	1.44
(1,302)	1:81:A:TYR:N	1:81:A:TYR:CA	1:81:A:TYR:C	1:82:A:ASN:N	14	1.43
(1,262)	1:190:A:SER:C	1:191:A:ASN:N	1:191:A:ASN:CA	1:191:A:ASN:C	9	1.43

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,256)	1:187:A:THR:C	1:188:A:MET:N	1:188:A:MET:CA	1:188:A:MET:C	13	1.42
(1,165)	1:119:A:ARG:C	1:120:A:TYR:N	1:120:A:TYR:CA	1:120:A:TYR:C	5	1.41
(1,77)	1:56:A:GLU:C	1:57:A:SER:N	1:57:A:SER:CA	1:57:A:SER:C	18	1.41
(1,292)	1:207:A:ARG:C	1:208:A:THR:N	1:208:A:THR:CA	1:208:A:THR:C	20	1.4
(1,206)	1:151:A:CYS:N	1:151:A:CYS:CA	1:151:A:CYS:C	1:152:A:GLY:N	18	1.39
(1,68)	1:51:A:GLU:N	1:51:A:GLU:CA	1:51:A:GLU:C	1:52:A:GLY:N	5	1.39
(1,207)	1:152:A:GLY:C	1:153:A:PHE:N	1:153:A:PHE:CA	1:153:A:PHE:C	5	1.38
(1,207)	1:152:A:GLY:C	1:153:A:PHE:N	1:153:A:PHE:CA	1:153:A:PHE:C	7	1.38
(1,246)	1:182:A:SER:C	1:183:A:ILE:N	1:183:A:ILE:CA	1:183:A:ILE:C	20	1.37
(1,4)	1:4:A:LYS:C	1:5:A:ALA:N	1:5:A:ALA:CA	1:5:A:ALA:C	13	1.37
(1,246)	1:182:A:SER:C	1:183:A:ILE:N	1:183:A:ILE:CA	1:183:A:ILE:C	17	1.36
(1,207)	1:152:A:GLY:C	1:153:A:PHE:N	1:153:A:PHE:CA	1:153:A:PHE:C	14	1.36
(1,261)	1:190:A:SER:N	1:190:A:SER:CA	1:190:A:SER:C	1:191:A:ASN:N	3	1.35
(1,189)	1:137:A:TYR:C	1:138:A:PRO:N	1:138:A:PRO:CA	1:138:A:PRO:C	7	1.35
(1,130)	1:96:A:THR:C	1:97:A:ILE:N	1:97:A:ILE:CA	1:97:A:ILE:C	20	1.35
(1,88)	1:62:A:SER:C	1:63:A:ASP:N	1:63:A:ASP:CA	1:63:A:ASP:C	9	1.35
(1,240)	1:179:A:LEU:C	1:180:A:SER:N	1:180:A:SER:CA	1:180:A:SER:C	14	1.34
(1,52)	1:36:A:SER:C	1:37:A:SER:N	1:37:A:SER:CA	1:37:A:SER:C	8	1.34
(1,43)	1:29:A:THR:N	1:29:A:THR:CA	1:29:A:THR:C	1:30:A:SER:N	19	1.34
(1,42)	1:28:A:LYS:C	1:29:A:THR:N	1:29:A:THR:CA	1:29:A:THR:C	7	1.34
(1,183)	1:131:A:SER:C	1:132:A:VAL:N	1:132:A:VAL:CA	1:132:A:VAL:C	2	1.33
(1,161)	1:117:A:ILE:C	1:118:A:LYS:N	1:118:A:LYS:CA	1:118:A:LYS:C	8	1.33
(1,159)	1:116:A:TYR:C	1:117:A:ILE:N	1:117:A:ILE:CA	1:117:A:ILE:C	17	1.33
(1,27)	1:16:A:GLY:C	1:17:A:TYR:N	1:17:A:TYR:CA	1:17:A:TYR:C	13	1.33
(1,277)	1:198:A:ASN:C	1:199:A:ALA:N	1:199:A:ALA:CA	1:199:A:ALA:C	18	1.32
(1,106)	1:77:A:SER:C	1:78:A:LEU:N	1:78:A:LEU:CA	1:78:A:LEU:C	9	1.32
(1,43)	1:29:A:THR:N	1:29:A:THR:CA	1:29:A:THR:C	1:30:A:SER:N	2	1.32
(1,40)	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	1:28:A:LYS:N	10	1.32
(1,301)	1:80:A:VAL:C	1:81:A:TYR:N	1:81:A:TYR:CA	1:81:A:TYR:C	12	1.31
(1,40)	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	1:28:A:LYS:N	4	1.3
(1,94)	1:66:A:TYR:N	1:66:A:TYR:CA	1:66:A:TYR:C	1:67:A:GLN:N	13	1.29
(1,35)	1:23:A:GLY:C	1:24:A:TRP:N	1:24:A:TRP:CA	1:24:A:TRP:C	17	1.29
(1,240)	1:179:A:LEU:C	1:180:A:SER:N	1:180:A:SER:CA	1:180:A:SER:C	2	1.28
(1,214)	1:156:A:SER:C	1:157:A:PRO:N	1:157:A:PRO:CA	1:157:A:PRO:C	20	1.28
(1,201)	1:146:A:GLY:C	1:147:A:TYR:N	1:147:A:TYR:CA	1:147:A:TYR:C	10	1.28
(1,199)	1:145:A:ARG:N	1:145:A:ARG:CA	1:145:A:ARG:C	1:146:A:GLY:N	18	1.28
(1,246)	1:182:A:SER:C	1:183:A:ILE:N	1:183:A:ILE:CA	1:183:A:ILE:C	19	1.27
(1,183)	1:131:A:SER:C	1:132:A:VAL:N	1:132:A:VAL:CA	1:132:A:VAL:C	15	1.27
(1,132)	1:97:A:ILE:C	1:98:A:THR:N	1:98:A:THR:CA	1:98:A:THR:C	7	1.27
(1,106)	1:77:A:SER:C	1:78:A:LEU:N	1:78:A:LEU:CA	1:78:A:LEU:C	16	1.27
(1,93)	1:65:A:LEU:N	1:65:A:LEU:CA	1:65:A:LEU:C	1:66:A:TYR:N	14	1.27
(1,292)	1:207:A:ARG:C	1:208:A:THR:N	1:208:A:THR:CA	1:208:A:THR:C	14	1.26
(1,149)	1:111:A:PHE:N	1:111:A:PHE:CA	1:111:A:PHE:C	1:112:A:ILE:N	19	1.26
(1,287)	1:203:A:ILE:C	1:204:A:LYS:N	1:204:A:LYS:CA	1:204:A:LYS:C	16	1.25
(1,196)	1:143:A:TYR:N	1:143:A:TYR:CA	1:143:A:TYR:C	1:144:A:ILE:N	2	1.25
(1,240)	1:179:A:LEU:C	1:180:A:SER:N	1:180:A:SER:CA	1:180:A:SER:C	19	1.24
(1,207)	1:152:A:GLY:C	1:153:A:PHE:N	1:153:A:PHE:CA	1:153:A:PHE:C	11	1.23
(1,206)	1:151:A:CYS:N	1:151:A:CYS:CA	1:151:A:CYS:C	1:152:A:GLY:N	6	1.22
(1,95)	1:68:A:THR:N	1:68:A:THR:CA	1:68:A:THR:C	1:69:A:GLY:N	4	1.22
(1,60)	1:47:A:LEU:N	1:47:A:LEU:CA	1:47:A:LEU:C	1:48:A:TYR:N	12	1.22
(1,8)	1:6:A:ILE:C	1:7:A:ALA:N	1:7:A:ALA:CA	1:7:A:ALA:C	8	1.21

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,201)	1:146:A:GLY:C	1:147:A:TYR:N	1:147:A:TYR:CA	1:147:A:TYR:C	12	1.2
(1,68)	1:51:A:GLU:N	1:51:A:GLU:CA	1:51:A:GLU:C	1:52:A:GLY:N	2	1.2
(1,43)	1:29:A:THR:N	1:29:A:THR:CA	1:29:A:THR:C	1:30:A:SER:N	15	1.2
(1,292)	1:207:A:ARG:C	1:208:A:THR:N	1:208:A:THR:CA	1:208:A:THR:C	3	1.19
(1,247)	1:183:A:ILE:N	1:183:A:ILE:CA	1:183:A:ILE:C	1:184:A:ILE:N	6	1.19
(1,239)	1:173:A:THR:C	1:174:A:GLU:N	1:174:A:GLU:CA	1:174:A:GLU:C	15	1.19
(1,145)	1:109:A:ARG:N	1:109:A:ARG:CA	1:109:A:ARG:C	1:110:A:ASP:N	5	1.19
(1,132)	1:97:A:ILE:C	1:98:A:THR:N	1:98:A:THR:CA	1:98:A:THR:C	18	1.19
(1,130)	1:96:A:THR:C	1:97:A:ILE:N	1:97:A:ILE:CA	1:97:A:ILE:C	5	1.19
(1,68)	1:51:A:GLU:N	1:51:A:GLU:CA	1:51:A:GLU:C	1:52:A:GLY:N	7	1.19
(1,34)	1:21:A:THR:N	1:21:A:THR:CA	1:21:A:THR:C	1:22:A:SER:N	19	1.18
(1,6)	1:5:A:ALA:C	1:6:A:ILE:N	1:6:A:ILE:CA	1:6:A:ILE:C	3	1.18
(1,245)	1:182:A:SER:N	1:182:A:SER:CA	1:182:A:SER:C	1:183:A:ILE:N	8	1.16
(1,153)	1:113:A:ASP:C	1:114:A:LEU:N	1:114:A:LEU:CA	1:114:A:LEU:C	6	1.16
(1,34)	1:21:A:THR:N	1:21:A:THR:CA	1:21:A:THR:C	1:22:A:SER:N	1	1.16
(1,96)	1:69:A:GLY:N	1:69:A:GLY:CA	1:69:A:GLY:C	1:70:A:ASP:N	13	1.15
(1,50)	1:35:A:VAL:N	1:35:A:VAL:CA	1:35:A:VAL:C	1:36:A:SER:N	13	1.15
(1,261)	1:190:A:SER:N	1:190:A:SER:CA	1:190:A:SER:C	1:191:A:ASN:N	8	1.14
(1,245)	1:182:A:SER:N	1:182:A:SER:CA	1:182:A:SER:C	1:183:A:ILE:N	6	1.14
(1,27)	1:16:A:GLY:C	1:17:A:TYR:N	1:17:A:TYR:CA	1:17:A:TYR:C	6	1.14
(1,301)	1:80:A:VAL:C	1:81:A:TYR:N	1:81:A:TYR:CA	1:81:A:TYR:C	9	1.13
(1,169)	1:123:A:ASN:C	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	4	1.13
(1,165)	1:119:A:ARG:C	1:120:A:TYR:N	1:120:A:TYR:CA	1:120:A:TYR:C	20	1.13
(1,160)	1:117:A:ILE:N	1:117:A:ILE:CA	1:117:A:ILE:C	1:118:A:LYS:N	13	1.13
(1,245)	1:182:A:SER:N	1:182:A:SER:CA	1:182:A:SER:C	1:183:A:ILE:N	10	1.12
(1,201)	1:146:A:GLY:C	1:147:A:TYR:N	1:147:A:TYR:CA	1:147:A:TYR:C	20	1.12
(1,239)	1:173:A:THR:C	1:174:A:GLU:N	1:174:A:GLU:CA	1:174:A:GLU:C	17	1.11
(1,77)	1:56:A:GLU:C	1:57:A:SER:N	1:57:A:SER:CA	1:57:A:SER:C	2	1.11
(1,45)	1:31:A:LYS:N	1:31:A:LYS:CA	1:31:A:LYS:C	1:32:A:LYS:N	6	1.11
(1,189)	1:137:A:TYR:C	1:138:A:PRO:N	1:138:A:PRO:CA	1:138:A:PRO:C	15	1.1
(1,183)	1:131:A:SER:C	1:132:A:VAL:N	1:132:A:VAL:CA	1:132:A:VAL:C	9	1.1
(1,148)	1:110:A:ASP:C	1:111:A:PHE:N	1:111:A:PHE:CA	1:111:A:PHE:C	20	1.1
(1,101)	1:72:A:ILE:N	1:72:A:ILE:CA	1:72:A:ILE:C	1:73:A:THR:N	1	1.1
(1,219)	1:160:A:GLU:N	1:160:A:GLU:CA	1:160:A:GLU:C	1:161:A:ASN:N	10	1.09
(1,196)	1:143:A:TYR:N	1:143:A:TYR:CA	1:143:A:TYR:C	1:144:A:ILE:N	9	1.09
(1,34)	1:21:A:THR:N	1:21:A:THR:CA	1:21:A:THR:C	1:22:A:SER:N	7	1.09
(1,201)	1:146:A:GLY:C	1:147:A:TYR:N	1:147:A:TYR:CA	1:147:A:TYR:C	14	1.08
(1,149)	1:111:A:PHE:N	1:111:A:PHE:CA	1:111:A:PHE:C	1:112:A:ILE:N	2	1.08
(1,27)	1:16:A:GLY:C	1:17:A:TYR:N	1:17:A:TYR:CA	1:17:A:TYR:C	8	1.08
(1,219)	1:160:A:GLU:N	1:160:A:GLU:CA	1:160:A:GLU:C	1:161:A:ASN:N	3	1.07
(1,55)	1:41:A:ARG:N	1:41:A:ARG:CA	1:41:A:ARG:C	1:42:A:LYS:N	11	1.07
(1,262)	1:190:A:SER:C	1:191:A:ASN:N	1:191:A:ASN:CA	1:191:A:ASN:C	6	1.06
(1,222)	1:164:A:TYR:N	1:164:A:TYR:CA	1:164:A:TYR:C	1:165:A:SER:N	17	1.06
(1,196)	1:143:A:TYR:N	1:143:A:TYR:CA	1:143:A:TYR:C	1:144:A:ILE:N	17	1.06
(1,101)	1:72:A:ILE:N	1:72:A:ILE:CA	1:72:A:ILE:C	1:73:A:THR:N	8	1.06
(1,277)	1:198:A:ASN:C	1:199:A:ALA:N	1:199:A:ALA:CA	1:199:A:ALA:C	4	1.04
(1,257)	1:188:A:MET:N	1:188:A:MET:CA	1:188:A:MET:C	1:189:A:PRO:N	19	1.04
(1,164)	1:119:A:ARG:N	1:119:A:ARG:CA	1:119:A:ARG:C	1:120:A:TYR:N	2	1.03
(1,32)	1:19:A:ARG:N	1:19:A:ARG:CA	1:19:A:ARG:C	1:20:A:ASP:N	14	1.03
(1,12)	1:8:A:GLN:C	1:9:A:GLN:N	1:9:A:GLN:CA	1:9:A:GLN:C	9	1.02
(1,261)	1:190:A:SER:N	1:190:A:SER:CA	1:190:A:SER:C	1:191:A:ASN:N	9	1.0

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,45)	1:31:A:LYS:N	1:31:A:LYS:CA	1:31:A:LYS:C	1:32:A:LYS:N	2	1.0